ATTACHMENT 1

CLP LABORATORY DATA PACKAGES

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0F91

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0F91	O3292-03		X	X	
MH0F92	O3292-04		X	X	
MH0F93	O3292-05		X	X	
MH0F93D	O3292-06		X	X	
MH0F93S	O3292-07		X	X	
MH0F94	O3292-08		X	X	
MH0F95	O3292-09		X	X	
MH0F89	O3292-10		X	X	
MH0F90	O3292-11		X	X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name:

Date: 7/17/2023 Title:

APPROVED

By Nimisha Pandya QA/QC Supervisor at 11:29 am, Jul 17, 2023

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-132923-0001

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SD-08	MH0F01	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1004, 1005 (2)	8	06/13/2023 15:22	
HWY-SD-06	MH0F05	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1020, 1021 (2)	06B	06/13/2023 16:20	
HWY-SD-09	MH0F06	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1024, 1025 (2)	9	06/13/2023 14:21	
HWY-SD-08-DUP	MH0F80	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1214, 1215 (2)	8	06/13/2023 15:22	✓
HWY-SW-06	MH0F91	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1236 (HNO3), 1237 (HNO3), 1238 (HNO3), 1251 (HNO3) (4)	06B	06/13/2023 16:15	
HWY-SW-08-DUP	MH0F92	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1239 (HNO3), 1240 (HNO3), 1241 (HNO3), 1253 (HNO3) (4)	8	06/13/2023 15:18	
HWY-SW-08	MH0F93	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1242 (HNO3), 1243 (HNO3), 1244 (HNO3), 1252 (HNO3) (4)	8	06/13/2023 15:16	MS/MSD
HWY-SW-09	MH0F94	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1245 (HNO3), 1246 (HNO3), 1247 (HNO3), 1254 (HNO3) (4)	9	06/13/2023 14:14	

Sample(s) to be used for Lab QC: HWY-SW-FB-1 Tag 1248, HWY-SW-FB-1 Tag 1249, HWY-SW-FB-1 Tag 1250, HWY-SW-FB-1 Tag 1255 Dissolved Metals SW samples filtered in field. use extra volume of HWY-SW-08 for MS/MSD.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury, Hardness=CLP Hardness, ICP-MS-D=CLP ICP-MS Metals (Dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	TH-Gun #1 18.3 C
					Custody Seal Intact
					No temp Blank

Copy

Original Documents are included in CSF MH0F01

Signature

6/27/23

Date

68HERH20D0011 SDG # MH0F91

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 8-061523-132923-0001

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

Case #: 50856
Cooler #:

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SW-FB-1	MH0F95	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1248 (HNO3), 1249 (HNO3), 1250 (HNO3), 1255 (HNO3) (4)	Field QC	06/13/2023 16:35	
HWY-SS-EB-1	MH0F89	water/ Davis_Brandi	Grab	ICP-MS (21), Hg (21)	1233 (HNO_3), 1232 (HNO_3)	33	6/13/2023 08:07	
HWY-SS-EB-2	MH0F90	water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21)	1235 (HNO_3), 1234 (HNO_3)	3	6/13/2023 08:07	

Sample(s) to be used for Lab QC: HWY-SW-FB-1 Tag 1255	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury, Hardness=CLP Hardness, ICP-MS-D=CLP ICP-MS Metals (Dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[signature] TT	6/23/23 1700	[signature]	13:30 6/27/23	IR-Gun # 1 18.3°C
					Custody Seal Intact
					No temp Blank

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 1
Received By (Print Name)		Log-in Date 6/27/2023
Received By (Signature)		
Case Number 50856	SDG No. MH0F91	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891526 1
6. Shipping Container Temperature Indicator Bottle	~~Present~~ Absent OM/10
7. Shipping Container Temperature	18.3 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F91	1.3	1236,37,38,51	O3292-03	Intact
2	MH0F92	1.3	1239,40,41,53	O3292-04	Intact
3	MH0F93	1.3	1242,43,44,52	O3292-05	Intact
4	MH0F93D	1.3	1245,46,47,53	O3292-06	Intact
5	MH0F93S	1.3	1248,49,50,55	O3292-07	Intact
6	MH0F94	1.3	1232,33	O3292-08	Intact
7	MH0F95	1.3	1234,35	O3292-09	Intact
8	MH0F89	1.3	1233,32	O3292-10	Intact
9	MH0F90	1.3	1234,35	O3292-11	Intact
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0F91**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	4	✓	
4 . CSF Inventory Sheet (DC-2)	5	7	✓	
5 . SDG Narrative	8	11	✓	
6 . Communication Logs	12	20	✓	
7 . Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	21	27	✓	
18 . Instrument raw data by instrument in analysis order	28	481	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	482	628	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	629	630	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	631	634	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	635	641	✓	
27. Instrument raw data by instrument in analysis order	642	643	✓	
Other Data				
28. Standard and Reagent Preparation Logs	644	673	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	674	675	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	676	677	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	678	678	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	679	679	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	680	681	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)	N. N. Pandya (Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	7/17/2023 (Date)
Audited by: (EPA)	(Signature)	(Print Name & Title)	(Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0F91
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3292

A. Number of Samples and Date of Receipt

07 Water samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc & Hg.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**

Cooler: 18.3^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2 : The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3 : Air bill numbers are missing on all COCs.

Issue 4: Hardness analysis is scheduled only for filtered ICP-MS Metals samples but the COC lists Hardness analysis for Total Metals only. Please confirm how the laboratory should proceed with analysis.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 4: Per Region 8, Hardness is only required for filtered ICP-MS Metals samples. An updated COC will be provided. Please note the issue in the SDG Narrative and proceed with analysis as scheduled.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

***Calculation for ICP-MS Water Sample*:**

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation for Sample MH0F91 for Arsenic:

If C = 0.84 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result } (\mu g/L) = 0.84 \times \frac{50}{50} \times 1$$

$$= 0.84\ \mu g/L$$

$$= 0.84\ \mu g/L \text{(Reported Result with Signification)}$$

Calculation for Hg Water Sample:

Concentration or Result (µg/L) = C x DF

Where,
C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

Example Calculation :

If C = 7.7935 ppb
DF = 1

Concentration or Result (µg/L) = 7.7935 x 1

= 7.7935 µg/L

= 7.8 µg/L (Reported Result with Signification)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb

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284 Sheffield Street
Mountainside, NJ 07092

Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya

Name: Nimisha Pandya

Date 7/17/2023

Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 06, 2023 1:53 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC | FINAL

Good afternoon,

Please see the resolutions from Region 8 below. Revised COCs will be provided as soon as they are received from the Region.

Issue 1: Hardness analysis is scheduled only for filtered ICP-MS Metals samples but the COC lists Hardness analysis for Total Metals only. Please confirm how the laboratory should proceed with analysis.
Resolution 1: Per Region 8, Hardness is only required for filtered ICP-MS Metals samples. An updated COC will be provided. Please note the issue in the SDG Narrative and proceed with analysis as scheduled.

Issue 2: Relinquished information is missing on all COCs.
Issue 2: Per Region 8, an updated COC will be provided. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
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Under contract to the EPA

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www.gdit.com

GENERAL DYNAMICS
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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, July 5, 2023 5:11 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Samantha, hardness analysis is only required for the filtered (dissolved) samples so the COC will need to be corrected by the field contractor.

Matt, please correct the COC and remove the hardness analysis from the total analysis and add hardness to the dissolved analysis. Additionally, sign the relinquishing information on the COCs making sure the date that the samples were sent is noted along with the signature.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 5, 2023 2:51 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: Hardness analysis is scheduled only for filtered ICP-MS Metals samples but the COC lists Hardness analysis for Total Metals only. Please confirm how the laboratory should proceed with analysis.

Issue 2: Relinquished information is missing on all COCs.

Thank you,

Samantha Sosko

Environmental Analyst Associate
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Under contract to the EPA

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Wednesday, July 5, 2023 3:48 PM

To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: sohil@chemtech.net
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Good afternoon,

Issue 1: As per ASR Hardness analysis required for Dissolved Metals only , however Hardness analysis mentioned on COC for total metals , therefore lab would like to confirm that lab how can proceed with Analysis ?
Issue 2: Relinquished information is missing on all COC .

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

EPA SAMPLE NO.

MH0F89

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-10

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	24		07/14/2023	1908
7440-36-0	Antimony	2.0	U	07/14/2023	1908
7440-38-2	Arsenic	1.0	U	07/14/2023	1908
7440-39-3	Barium	0.81	J	07/14/2023	1908
7440-41-7	Beryllium	1.0	U	07/14/2023	1908
7440-43-9	Cadmium	1.0	U	07/14/2023	1908
7440-70-2	Calcium	210	J	07/14/2023	1908
7440-47-3	Chromium	2.7		07/14/2023	1908
7440-48-4	Cobalt	0.080	J	07/14/2023	1908
7440-50-8	Copper	2.0	U	07/14/2023	1908
7439-89-6	Iron	200	U	07/14/2023	1908
7439-92-1	Lead	0.38	J	07/14/2023	1908
7439-95-4	Magnesium	500	U	07/14/2023	1908
7439-96-5	Manganese	2.9		07/14/2023	1908
7440-02-0	Nickel	3.4		07/14/2023	1908
7440-09-7	Potassium	57	J	07/14/2023	1908
7782-49-2	Selenium	5.0	U	07/14/2023	1908
7440-22-4	Silver	1.0	U	07/14/2023	1908
7440-23-5	Sodium	500	U	07/14/2023	1908
7440-28-0	Thallium	1.0	U	07/14/2023	1908
7440-62-2	Vanadium	5.0	U	07/14/2023	1908
7440-66-6	Zinc	17		07/14/2023	1908

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F90

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-11

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9.7	J	07/14/2023	1911
7440-36-0	Antimony	2.0	U	07/14/2023	1911
7440-38-2	Arsenic	1.0	U	07/14/2023	1911
7440-39-3	Barium	10	U	07/14/2023	1911
7440-41-7	Beryllium	1.0	U	07/14/2023	1911
7440-43-9	Cadmium	1.0	U	07/14/2023	1911
7440-70-2	Calcium	38	J	07/14/2023	1911
7440-47-3	Chromium	2.0	U	07/14/2023	1911
7440-48-4	Cobalt	1.0	U	07/14/2023	1911
7440-50-8	Copper	2.0	U	07/14/2023	1911
7439-89-6	Iron	200	U	07/14/2023	1911
7439-92-1	Lead	1.0	U	07/14/2023	1911
7439-95-4	Magnesium	500	U	07/14/2023	1911
7439-96-5	Manganese	0.92	J	07/14/2023	1911
7440-02-0	Nickel	1.0		07/14/2023	1911
7440-09-7	Potassium	500	U	07/14/2023	1911
7782-49-2	Selenium	5.0	U	07/14/2023	1911
7440-22-4	Silver	1.0	U	07/14/2023	1911
7440-23-5	Sodium	500	U	07/14/2023	1911
7440-28-0	Thallium	1.0	U	07/14/2023	1911
7440-62-2	Vanadium	5.0	U	07/14/2023	1911
7440-66-6	Zinc	14		07/14/2023	1911

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F91

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-03

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	1600		07/14/2023	1757
7440-36-0	Antimony	0.16	J	07/14/2023	1757
7440-38-2	Arsenic	0.84	J	07/14/2023	1757
7440-39-3	Barium	66		07/14/2023	1757
7440-41-7	Beryllium	0.55	J	07/14/2023	1757
7440-43-9	Cadmium	1.0	U	07/14/2023	1757
7440-70-2	Calcium	25000		07/14/2023	1757
7440-47-3	Chromium	1.7	J	07/14/2023	1757
7440-48-4	Cobalt	0.45	J	07/14/2023	1757
7440-50-8	Copper	2.2		07/14/2023	1757
7439-89-6	Iron	2100		07/14/2023	1757
7439-92-1	Lead	2.6		07/14/2023	1757
7439-95-4	Magnesium	5100		07/14/2023	1757
7439-96-5	Manganese	110		07/14/2023	1757
7440-02-0	Nickel	1.3		07/14/2023	1757
7440-09-7	Potassium	2800		07/14/2023	1757
7782-49-2	Selenium	5.0	U	07/14/2023	1757
7440-22-4	Silver	1.0	U	07/14/2023	1757
7440-23-5	Sodium	16000		07/14/2023	1757
7440-28-0	Thallium	1.0	U	07/14/2023	1757
7440-62-2	Vanadium	2.7	J	07/14/2023	1757
7440-66-6	Zinc	33		07/14/2023	1757

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F92

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-04

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	320		07/14/2023	1800
7440-36-0	Antimony	2.0	U	07/14/2023	1800
7440-38-2	Arsenic	0.81	J	07/14/2023	1800
7440-39-3	Barium	55		07/14/2023	1800
7440-41-7	Beryllium	0.36	J	07/14/2023	1800
7440-43-9	Cadmium	1.0	U	07/14/2023	1800
7440-70-2	Calcium	30000		07/14/2023	1800
7440-47-3	Chromium	0.41	J	07/14/2023	1800
7440-48-4	Cobalt	0.58	J	07/14/2023	1800
7440-50-8	Copper	1.4	J	07/14/2023	1800
7439-89-6	Iron	650		07/14/2023	1800
7439-92-1	Lead	1.6		07/14/2023	1800
7439-95-4	Magnesium	7200		07/14/2023	1800
7439-96-5	Manganese	120		07/14/2023	1800
7440-02-0	Nickel	0.62	J	07/14/2023	1800
7440-09-7	Potassium	2700		07/14/2023	1800
7782-49-2	Selenium	5.0	U	07/14/2023	1800
7440-22-4	Silver	1.0	U	07/14/2023	1800
7440-23-5	Sodium	20000		07/14/2023	1800
7440-28-0	Thallium	1.0	U	07/14/2023	1800
7440-62-2	Vanadium	0.81	J	07/14/2023	1800
7440-66-6	Zinc	46		07/14/2023	1800

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F93

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-05

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	970		07/14/2023	1803
7440-36-0	Antimony	2.0	U	07/14/2023	1803
7440-38-2	Arsenic	0.96	J	07/14/2023	1803
7440-39-3	Barium	58		07/14/2023	1803
7440-41-7	Beryllium	0.41	J	07/14/2023	1803
7440-43-9	Cadmium	1.0	U	07/14/2023	1803
7440-70-2	Calcium	29000		07/14/2023	1803
7440-47-3	Chromium	1.3	J	07/14/2023	1803
7440-48-4	Cobalt	0.68	J	07/14/2023	1803
7440-50-8	Copper	1.7	J	07/14/2023	1803
7439-89-6	Iron	1400		07/14/2023	1803
7439-92-1	Lead	2.2		07/14/2023	1803
7439-95-4	Magnesium	7200		07/14/2023	1803
7439-96-5	Manganese	120		07/14/2023	1803
7440-02-0	Nickel	1.2		07/14/2023	1803
7440-09-7	Potassium	3000		07/14/2023	1803
7782-49-2	Selenium	5.0	U	07/14/2023	1803
7440-22-4	Silver	1.0	U	07/14/2023	1803
7440-23-5	Sodium	20000		07/14/2023	1803
7440-28-0	Thallium	1.0	U	07/14/2023	1803
7440-62-2	Vanadium	1.6	J	07/14/2023	1803
7440-66-6	Zinc	54		07/14/2023	1803

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F94

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-08

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	310		07/14/2023	1901
7440-36-0	Antimony	2.0	U	07/14/2023	1901
7440-38-2	Arsenic	0.77	J	07/14/2023	1901
7440-39-3	Barium	56		07/14/2023	1901
7440-41-7	Beryllium	0.33	J	07/14/2023	1901
7440-43-9	Cadmium	1.0	U	07/14/2023	1901
7440-70-2	Calcium	32000		07/14/2023	1901
7440-47-3	Chromium	0.51	J	07/14/2023	1901
7440-48-4	Cobalt	0.57	J	07/14/2023	1901
7440-50-8	Copper	1.2	J	07/14/2023	1901
7439-89-6	Iron	650		07/14/2023	1901
7439-92-1	Lead	1.7		07/14/2023	1901
7439-95-4	Magnesium	8100		07/14/2023	1901
7439-96-5	Manganese	120		07/14/2023	1901
7440-02-0	Nickel	0.71	J	07/14/2023	1901
7440-09-7	Potassium	2800		07/14/2023	1901
7782-49-2	Selenium	5.0	U	07/14/2023	1901
7440-22-4	Silver	1.0	U	07/14/2023	1901
7440-23-5	Sodium	21000		07/14/2023	1901
7440-28-0	Thallium	1.0	U	07/14/2023	1901
7440-62-2	Vanadium	0.75	J	07/14/2023	1901
7440-66-6	Zinc	49		07/14/2023	1901

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F95

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-09

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	07/14/2023	1821
7440-36-0	Antimony	2.0	U	07/14/2023	1821
7440-38-2	Arsenic	1.0	U	07/14/2023	1821
7440-39-3	Barium	10	U	07/14/2023	1821
7440-41-7	Beryllium	1.0	U	07/14/2023	1821
7440-43-9	Cadmium	1.0	U	07/14/2023	1821
7440-70-2	Calcium	500	U	07/14/2023	1821
7440-47-3	Chromium	2.0	U	07/14/2023	1821
7440-48-4	Cobalt	1.0	U	07/14/2023	1821
7440-50-8	Copper	2.0	U	07/14/2023	1821
7439-89-6	Iron	200	U	07/14/2023	1821
7439-92-1	Lead	1.0	U	07/14/2023	1821
7439-95-4	Magnesium	500	U	07/14/2023	1821
7439-96-5	Manganese	1.0	U	07/14/2023	1821
7440-02-0	Nickel	1.0	U	07/14/2023	1821
7440-09-7	Potassium	500	U	07/14/2023	1821
7782-49-2	Selenium	5.0	U	07/14/2023	1821
7440-22-4	Silver	1.0	U	07/14/2023	1821
7440-23-5	Sodium	500	U	07/14/2023	1821
7440-28-0	Thallium	1.0	U	07/14/2023	1821
7440-62-2	Vanadium	5.0	U	07/14/2023	1821
7440-66-6	Zinc	5.0	U	07/14/2023	1821

NOTE: Hardness (total) is reported in mg/L

Comments:

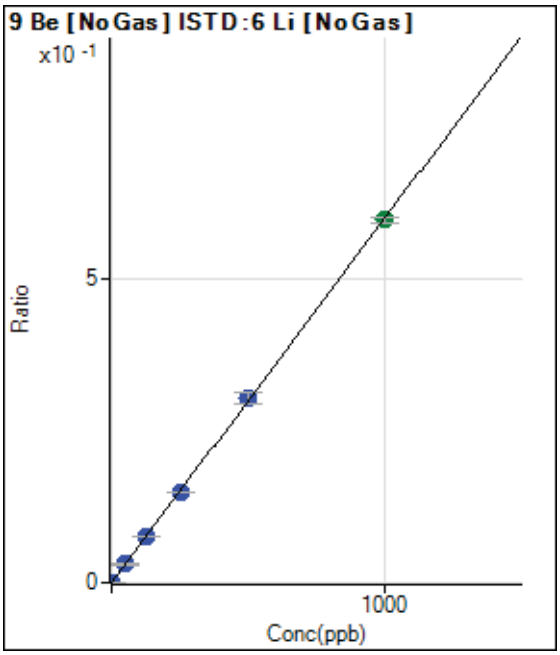
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071423-MS.b\
Analysis File: P8071423-MS.batch.bin
DA Date-Time: 2023-07-14 16:23:58
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-07-14 13:46:20
2	005CALS.d	S02	2023-07-14 13:49:22
3	006CALS.d	S03	2023-07-14 13:52:26
4	007CALS.d	S04	2023-07-14 13:55:24
5	008CALS.d	S05	2023-07-14 13:58:25
6	009CALS.d	S06	2023-07-14 14:01:24
7	010CALS.d	S07	2023-07-14 14:04:24
8	011CALS.d	S08	2023-07-14 14:07:23

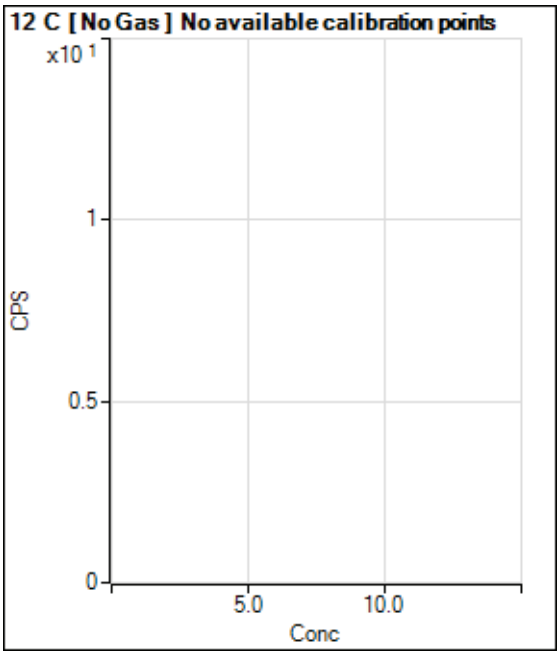
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	35.00	0.0000	P	21.8
2		1.000	1.060	1560.31	0.0006	P	1.0
3		50.000	50.323	74426.90	0.0301	P	2.3
4		125.000	126.622	181463.00	0.0758	P	1.3
5		250.000	248.184	355065.37	0.1486	P	2.0
6		500.000	507.250	687701.77	0.3037	P	5.7
7		1000.000	996.610	1349065.76	0.5966	A	1.7
8				393.31	0.0002	P	90.1

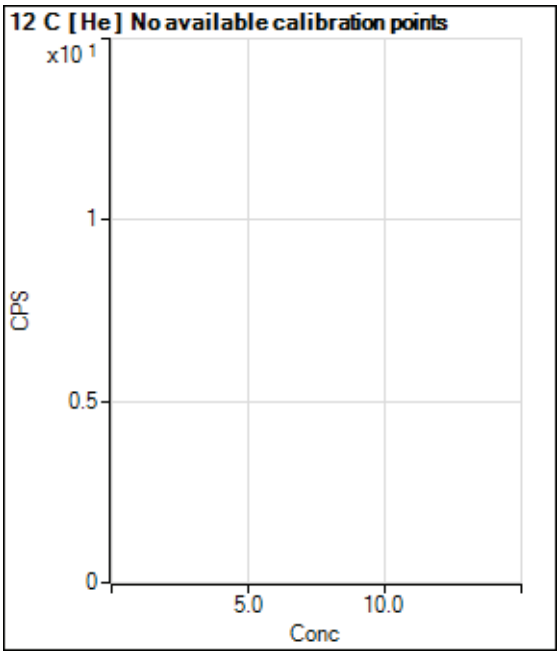
y = 5.9862E-004 * x + 1.4263E-005
R = 1.0000
DL = 0.01561
BEC = 0.02383

Weight: <None>
Min Conc: 0

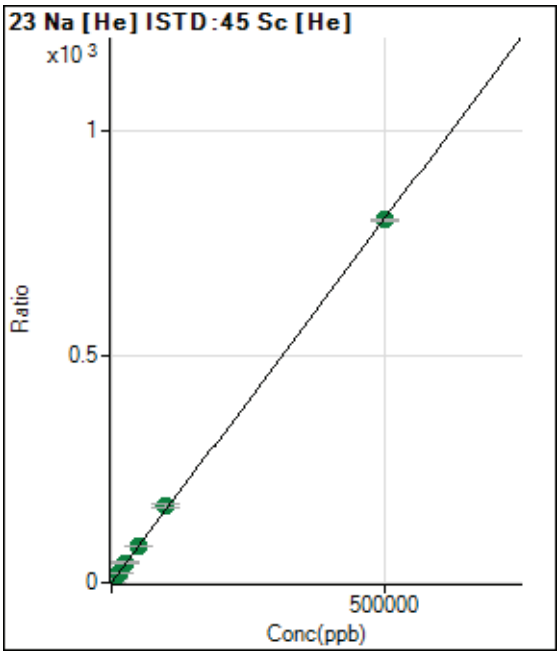


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2531260.04		A	0.6
2				2539264.21		A	1.3
3				2875155.66		A	0.5
4				2729101.99		A	1.1
5				2743355.98		A	1.0
6				3010458.55		A	4.7
7				2920951.67		A	0.1
8				2758464.06		A	1.2

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				30676.97		P	1.0
2				30908.15		P	0.6
3				35298.73		P	1.7
4				33611.31		P	1.5
5				35262.39		P	1.5
6				40188.94		P	1.7
7				37317.39		P	1.0
8				38996.84		P	1.9

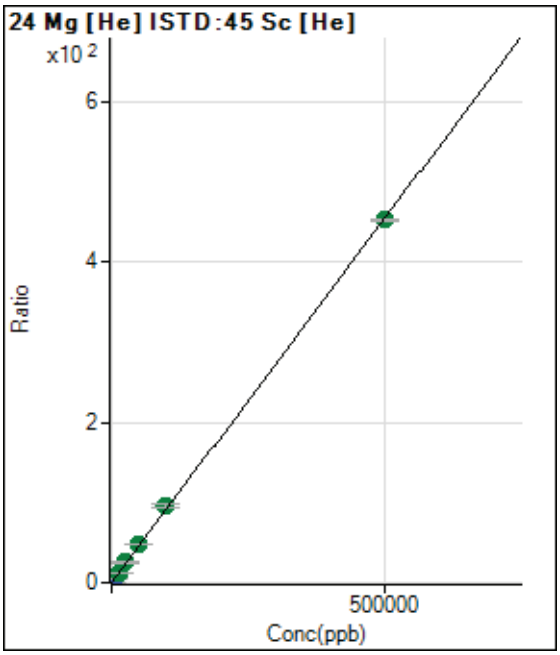


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14299.12	0.1029	P	1.5
2		500.000	471.670	119599.55	0.8603	P	1.1
3		5000.000	5153.034	1147603.77	8.3779	A	1.2
4		12500.000	12704.821	2752045.70	20.5050	A	2.3
5		25000.000	27544.719	5416829.98	44.3358	A	11.3
6		50000.000	50550.327	10374141.29	81.2795	A	2.3
7		100000.00	104575.61	19658378.91	168.0364	A	4.9
8		500000.00	498895.98	88460381.14	801.2586	A	0.5

y = 0.0016 * x + 0.1029
R = 0.9999
DL = 2.973
BEC = 64.07

Weight: <None>
Min Conc: 0

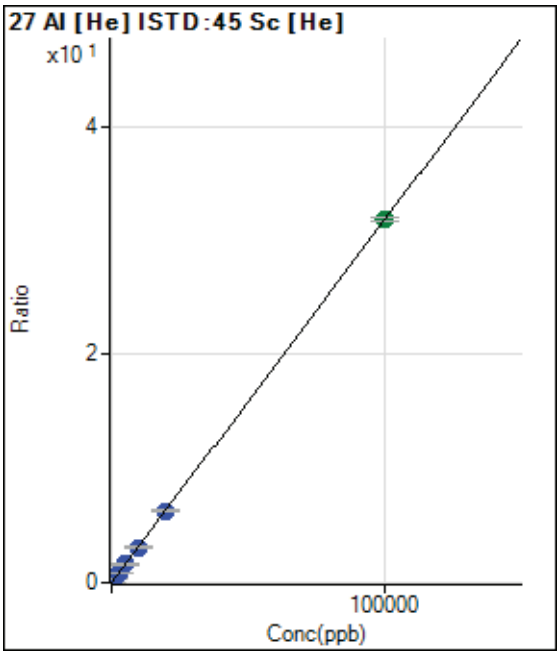
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	180.56	0.0013	P	54.3
2		500.000	467.676	59290.72	0.4265	P	0.7
3		5000.000	5178.234	644914.39	4.7091	P	3.1
4		12500.000	13096.837	1598255.20	11.9082	A	2.4
5		25000.000	28164.362	3128707.12	25.6067	A	11.2
6		50000.000	52261.593	6064831.00	47.5145	A	1.7
7		100000.00	106092.04	11286262.92	96.4541	A	4.2
8		500000.00	498380.54	50022572.99	453.1003	A	0.2

y = 9.0914E-004 * x + 0.0013
R = 0.9999
DL = 2.334
BEC = 1.433

Weight: <None>
Min Conc: 0

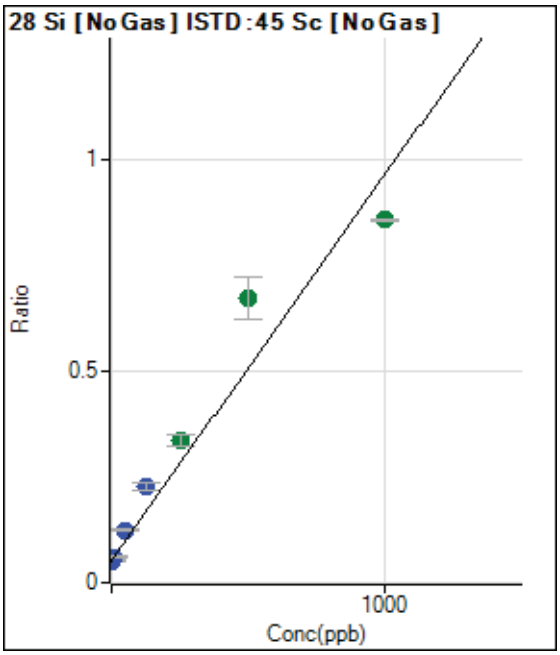


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	76.24	0.0005	P	23.5
2		20.000	19.840	953.25	0.0069	P	4.7
3		1000.000	985.159	42979.72	0.3138	P	2.3
4		2500.000	2441.055	104264.70	0.7767	P	0.5
5		5000.000	5232.459	203246.55	1.6643	P	12.0
6		10000.000	9801.025	397868.44	3.1170	P	1.6
7		20000.000	19852.396	738704.84	6.3131	P	4.0
8		100000.00	100039.41	3512018.27	31.8105	A	1.2

y = 3.1797E-004 * x + 5.4947E-004
R = 1.0000
DL = 1.218
BEC = 1.728

Weight: <None>
Min Conc: 0

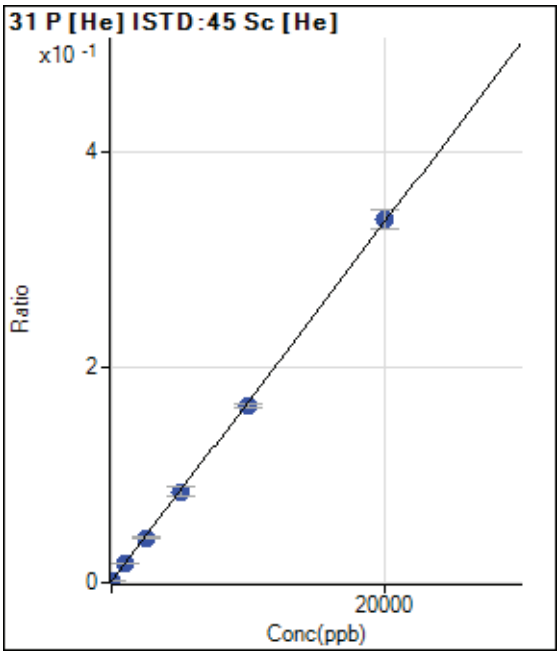
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	211008.84	0.0522	P	2.7
2		10.000	9.555	247271.41	0.0609	P	6.1
3		50.000	78.032	500065.92	0.1233	P	3.5
4		125.000	192.061	919309.49	0.2272	P	6.5
5		250.000	311.987	1335248.44	0.3365	A	8.4
6		500.000	681.065	2508551.51	0.6729	A	14.5
7		1000.000	884.191	3261210.14	0.8581	A	0.7
8				562101.66	0.1658	P	7.1

y = 9.1148E-004 * x + 0.0522
R = 0.9693
DL = 4.719
BEC = 57.23

Weight: <None>
Min Conc: 0

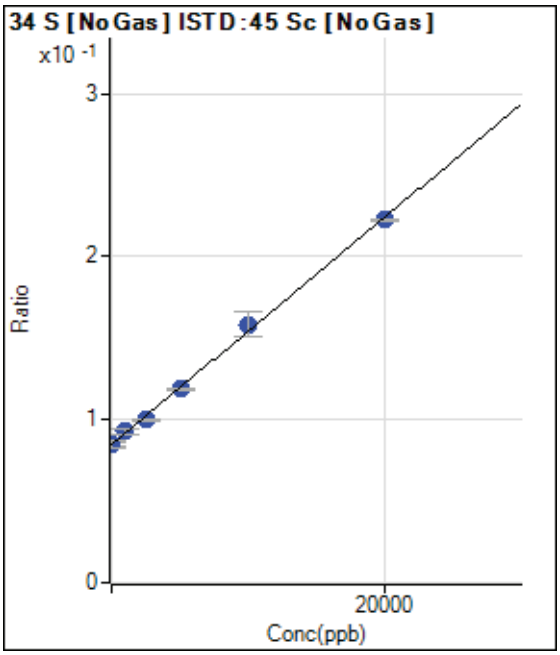


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.022	161.12	0.0012	P	18.6
2		0.000	-0.022	161.12	0.0012	P	2.9
3		1000.000	988.104	2416.95	0.0176	P	4.3
4		2500.000	2438.055	5612.33	0.0418	P	1.2
5		5000.000	5005.001	10340.04	0.0846	P	10.9
6		10000.000	9749.698	20898.94	0.1637	P	2.5
7		20000.000	20132.239	39401.34	0.3368	P	5.4
8				130.56	0.0012	P	16.9

y = 1.6673E-005 * x + 0.0012
R = 0.9999
DL = 22.41
BEC = 69.53

Weight: <None>
Min Conc: 0

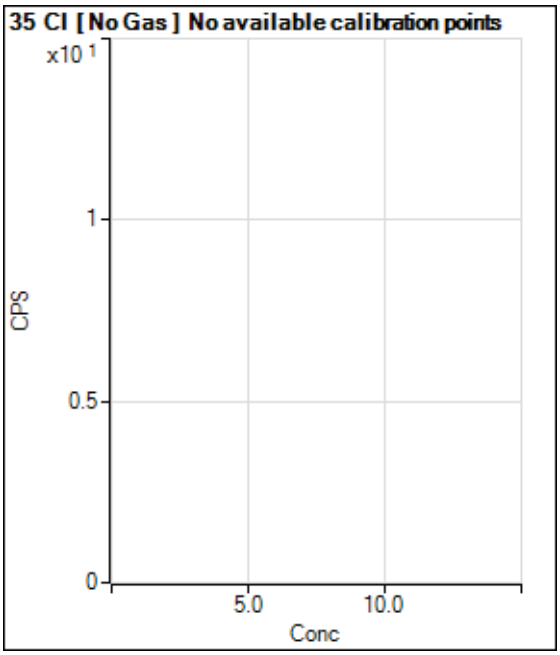
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-46.744	341582.80	0.0844	P	2.7
2		0.000	46.744	345777.95	0.0851	P	4.9
3		1000.000	1119.669	375188.29	0.0926	P	2.6
4		2500.000	2156.539	403720.83	0.0998	P	1.6
5		5000.000	4875.485	471181.03	0.1187	P	1.5
6		10000.000	10593.325	592162.25	0.1585	P	9.2
7		20000.000	19771.415	845392.66	0.2224	P	0.8
8				291374.01	0.0861	P	3.1

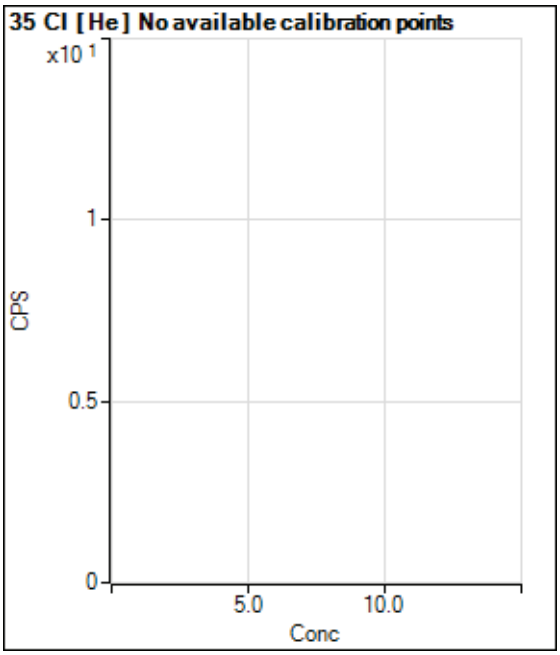
y = 6.9628E-006 * x + 0.0848
R = 0.9991
DL = 1387
BEC = 1.217E+04

Weight: <None>
Min Conc: 0

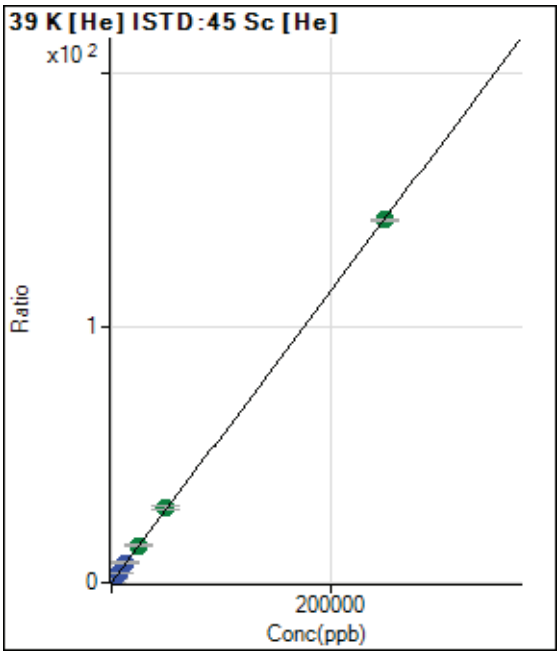


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				172151.48		P	1.2
2				172123.08		P	0.7
3				180146.93		P	1.3
4				174542.39		P	0.3
5				171250.93		P	1.8
6				165471.44		P	1.4
7				165050.33		P	2.2
8				170352.09		P	2.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1222.31		P	2.8
2				1236.20		P	2.8
3				1361.21		P	10.7
4				1333.43		P	5.7
5				1211.19		P	5.2
6				1158.41		P	2.6
7				1205.64		P	9.4
8				1386.22		P	6.3

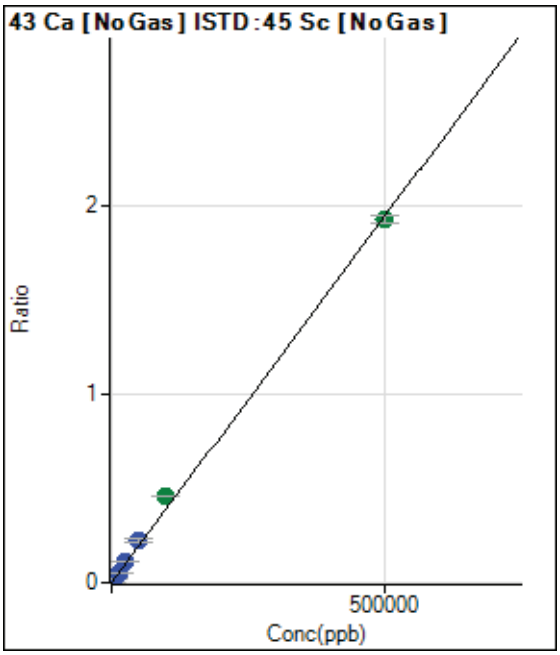


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	10028.73	0.0722	P	2.6
2		500.000	465.343	46868.29	0.3371	P	1.7
3		2500.000	2515.715	206087.19	1.5045	P	1.4
4		6250.000	6189.457	482738.01	3.5963	P	0.6
5		12500.000	13282.300	932280.01	7.6348	P	12.1
6		25000.000	25587.729	1868738.80	14.6411	A	2.2
7		50000.000	51448.981	3436420.52	29.3659	A	3.7
8		250000.00	249613.74	15697932.12	142.1957	A	0.4

y = 5.6937E-004 * x + 0.0722
R = 1.0000
DL = 9.806
BEC = 126.7

Weight: <None>
Min Conc: 0

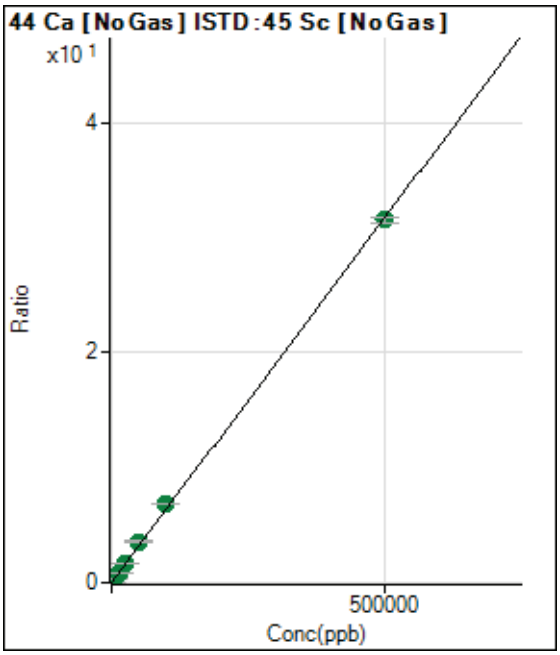
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	223.72	0.0001	P	4.5
2		500.000	456.605	7416.83	0.0018	P	5.4
3		5000.000	5654.803	89093.07	0.0220	P	2.3
4		12500.000	13899.587	218266.13	0.0539	P	0.9
5		25000.000	27836.240	428575.23	0.1080	P	1.1
6		50000.000	57908.107	838784.52	0.2246	P	9.4
7		100000.00	117337.21	1729246.89	0.4550	A	0.3
8		500000.00	495558.44	6504416.39	1.9214	A	2.3

y = 3.8771E-006 * x + 5.5319E-005
R = 0.9993
DL = 1.917
BEC = 14.27

Weight: <None>
Min Conc: 0

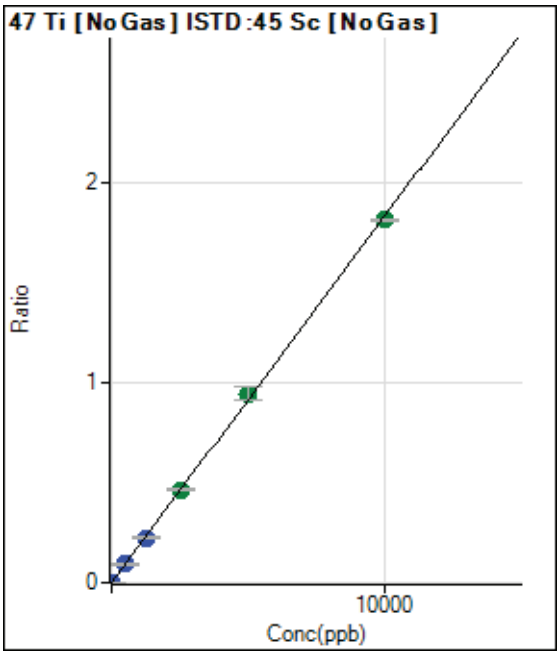


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	34495.09	0.0085	P	3.5
2		500.000	455.431	151948.73	0.0374	P	4.7
3		5000.000	5661.967	1488960.08	0.3674	A	2.7
4		12500.000	13651.450	3535167.54	0.8737	A	0.3
5		25000.000	27319.536	6905653.27	1.7399	A	1.3
6		50000.000	56584.977	13429646.73	3.5946	A	9.0
7		100000.00	107558.83	25940933.46	6.8251	A	1.3
8		500000.00	497678.39	106814701.6	31.5492	A	1.6

y = 6.3376E-005 * x + 0.0085
R = 0.9998
DL = 14.27
BEC = 134.6

Weight: <None>
Min Conc: 0

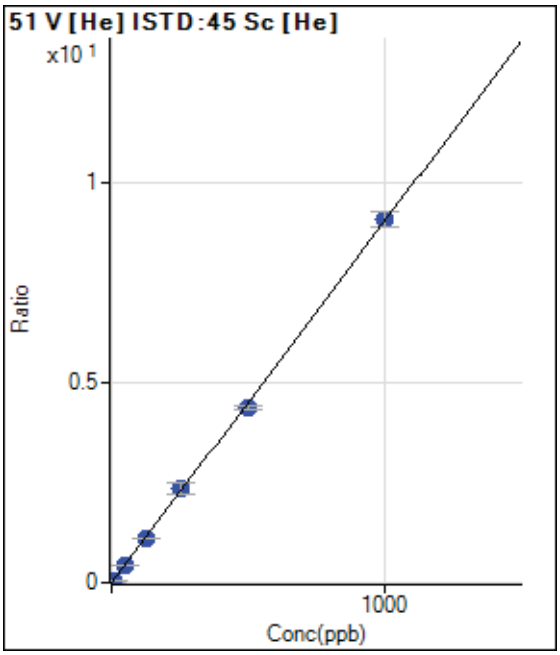
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	105.56	0.0000	P	39.5
2		5.000	4.843	3722.80	0.0009	P	1.9
3		500.000	503.653	374405.48	0.0924	P	2.3
4		1250.000	1231.985	914031.51	0.2259	P	0.7
5		2500.000	2543.205	1850744.40	0.4663	A	1.7
6		5000.000	5171.166	3545352.12	0.9482	A	7.4
7		10000.000	9905.685	6902845.29	1.8162	A	0.6
8				1958.87	0.0006	P	84.1

y = 1.8335E-004 * x + 2.6219E-005
R = 0.9998
DL = 0.1694
BEC = 0.143

Weight: <None>
Min Conc: 0

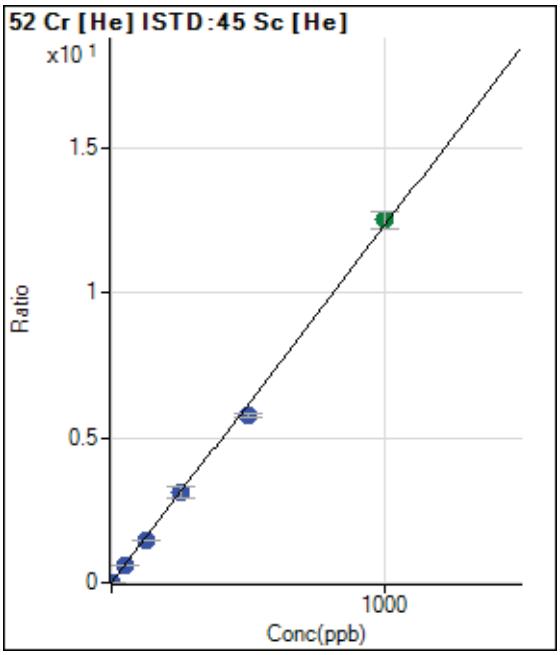


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	21.11	0.0002	P	73.2
2		5.000	4.584	5782.34	0.0416	P	2.5
3		50.000	48.963	60651.19	0.4428	P	1.7
4		125.000	121.290	147210.35	1.0966	P	0.3
5		250.000	262.304	289525.09	2.3714	P	12.3
6		500.000	484.968	559628.49	4.3843	P	1.7
7		1000.000	1004.958	1062986.39	9.0850	P	4.2
8				387.79	0.0035	P	47.1

y = 0.0090 * x + 1.5270E-004
R = 0.9997
DL = 0.03709
BEC = 0.01689

Weight: <None>
Min Conc: 0

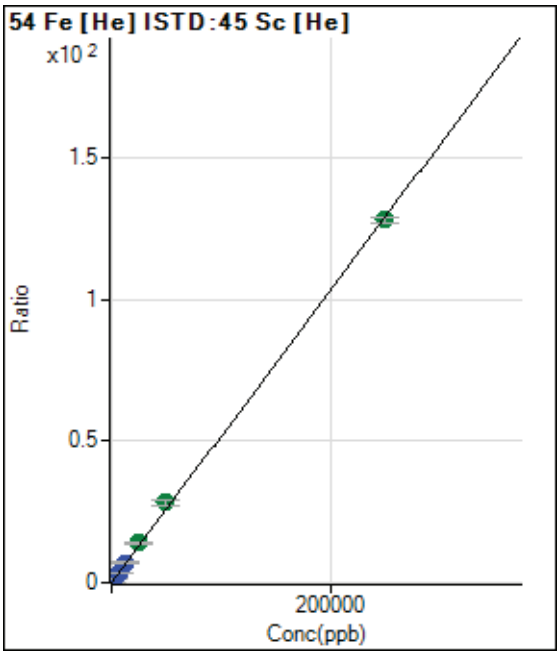
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1120.06	0.0081	P	2.8
2		2.000	1.845	4272.91	0.0307	P	4.6
3		50.000	47.575	81207.89	0.5928	P	2.7
4		125.000	117.096	194278.65	1.4474	P	1.0
5		250.000	254.564	382996.62	3.1371	P	12.4
6		500.000	467.104	733887.07	5.7495	P	1.7
7		1000.000	1016.417	1462609.84	12.5015	A	4.8
8				8170.18	0.0740	P	1.5

y = 0.0123 * x + 0.0081
R = 0.9992
DL = 0.05597
BEC = 0.6556

Weight: <None>
Min Conc: 0

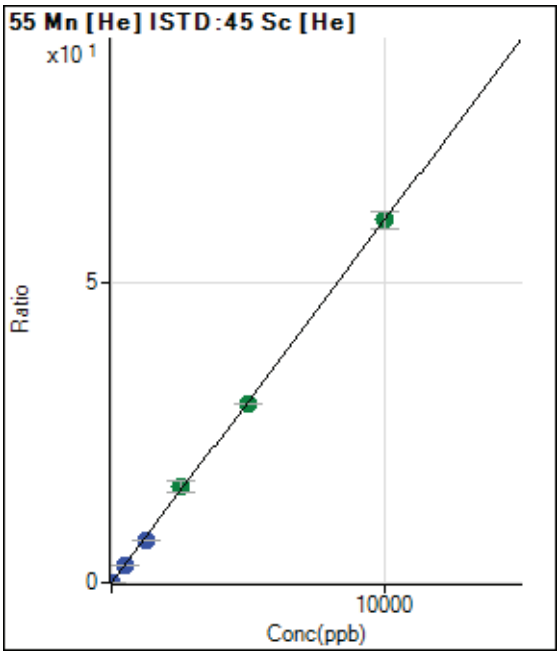


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	392.61	0.0028	P	10.3
2		50.000	51.623	4093.24	0.0294	P	5.2
3		2500.000	2580.762	182651.58	1.3334	P	0.7
4		6250.000	6392.766	442754.17	3.2986	P	1.7
5		12500.000	13808.626	869393.11	7.1219	P	12.6
6		25000.000	27192.440	1789700.22	14.0220	A	2.3
7		50000.000	54993.324	3316564.92	28.3549	A	5.9
8		250000.00	248712.28	14157137.01	128.2277	A	1.7

y = 5.1556E-004 * x + 0.0028
R = 0.9998
DL = 1.699
BEC = 5.48

Weight: <None>
Min Conc: 0

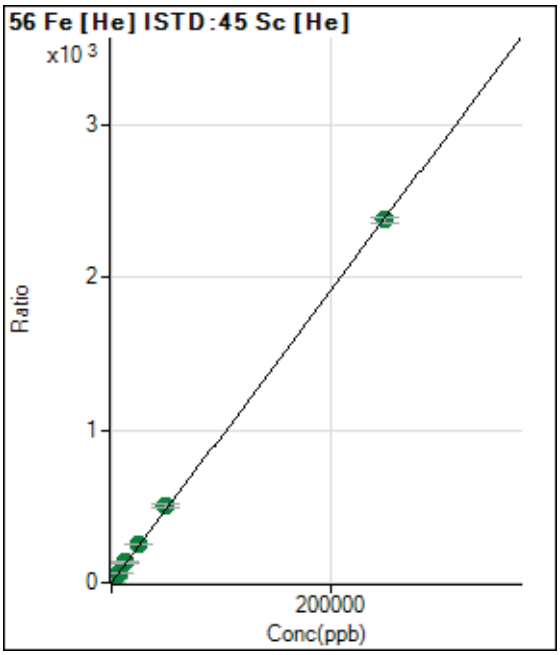
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	87.78	0.0006	P	27.6
2		1.000	0.900	845.59	0.0061	P	9.4
3		500.000	473.027	392203.38	2.8634	P	2.0
4		1250.000	1160.000	942416.74	7.0210	P	1.6
5		2500.000	2666.968	1971481.85	16.1412	A	11.8
6		5000.000	4925.272	3805236.47	29.8086	A	0.7
7		10000.000	10008.221	7086122.67	60.5708	A	4.9
8				5897.09	0.0535	P	20.8

y = 0.0061 * x + 6.3278E-004
R = 0.9997
DL = 0.0866
BEC = 0.1046

Weight: <None>
Min Conc: 0

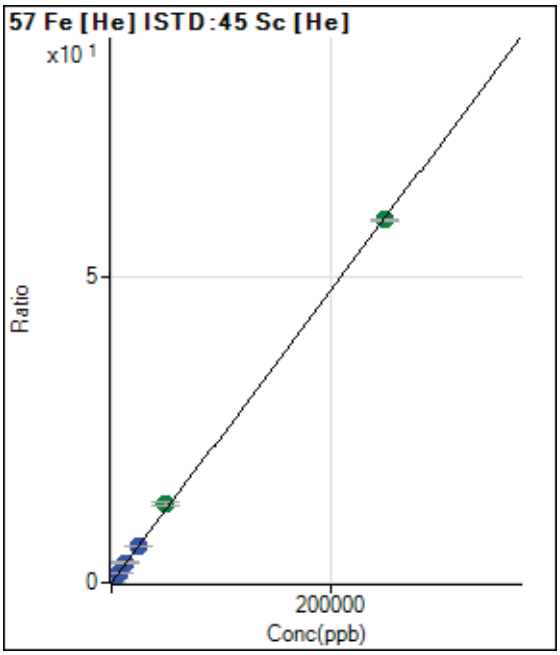


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	3331.93	0.0240	P	9.9
2		50.000	48.168	67245.02	0.4837	P	0.6
3		2500.000	2636.916	3450331.59	25.1916	A	2.3
4		6250.000	6454.375	8271709.62	61.6268	A	1.6
5		12500.000	14049.138	16387889.48	134.1138	A	11.0
6		25000.000	25943.918	31611100.71	247.6417	A	1.2
7		50000.000	52728.681	58878800.85	503.2848	A	5.0
8		250000.00	249275.93	262683089.2	2,379.199	A	1.8

y = 0.0095 * x + 0.0240
R = 0.9999
DL = 0.7457
BEC = 2.513

Weight: <None>
Min Conc: 0

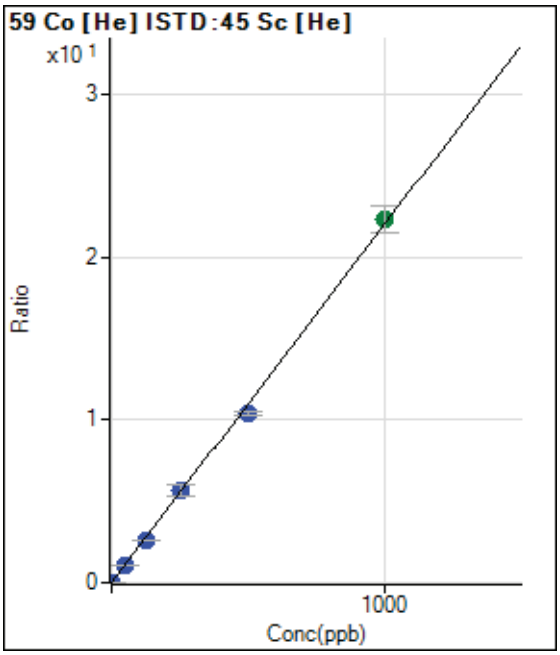
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	151.86	0.0011	P	23.3
2		50.000	50.255	1816.81	0.0131	P	1.3
3		2500.000	2517.017	82305.22	0.6009	P	1.6
4		6250.000	6224.490	199235.74	1.4843	P	1.0
5		12500.000	13526.155	393697.22	3.2241	P	12.1
6		25000.000	24921.583	758130.94	5.9394	P	1.6
7		50000.000	54327.639	1514719.72	12.9463	A	4.8
8		250000.00	249091.47	6552977.00	59.3548	A	0.6

y = 2.3828E-004 * x + 0.0011
R = 0.9998
DL = 3.206
BEC = 4.592

Weight: <None>
Min Conc: 0

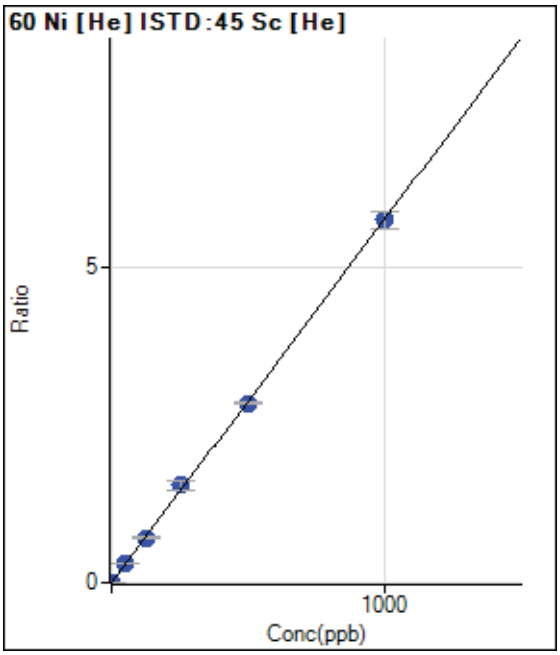


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.56	0.0005	P	29.6
2		1.000	0.899	2824.75	0.0203	P	5.9
3		50.000	48.418	145927.72	1.0652	P	0.2
4		125.000	118.595	350140.11	2.6083	P	0.2
5		250.000	257.167	690608.29	5.6553	P	12.0
6		500.000	472.639	1326666.59	10.3933	P	1.3
7		1000.000	1012.769	2604202.63	22.2702	A	7.3
8				5886.86	0.0534	P	7.8

y = 0.0220 * x + 5.4475E-004
R = 0.9994
DL = 0.02202
BEC = 0.02477

Weight: <None>
Min Conc: 0

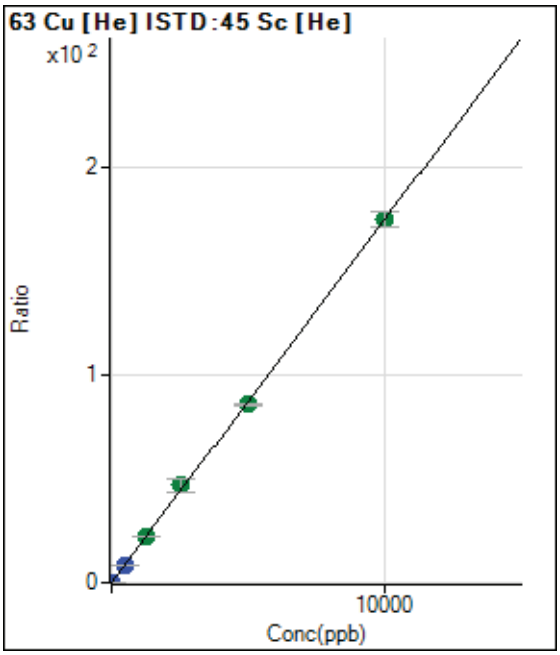
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	64.45	0.0005	P	31.2
2		1.000	1.018	881.15	0.0063	P	3.1
3		50.000	50.860	40269.15	0.2940	P	0.9
4		125.000	123.920	96047.29	0.7156	P	1.6
5		250.000	267.945	188963.63	1.5467	P	11.3
6		500.000	493.960	363925.08	2.8510	P	1.2
7		1000.000	998.626	674254.83	5.7633	P	4.8
8				3225.95	0.0292	P	5.2

y = 0.0058 * x + 4.6451E-004
R = 0.9998
DL = 0.07527
BEC = 0.08049

Weight: <None>
Min Conc: 0

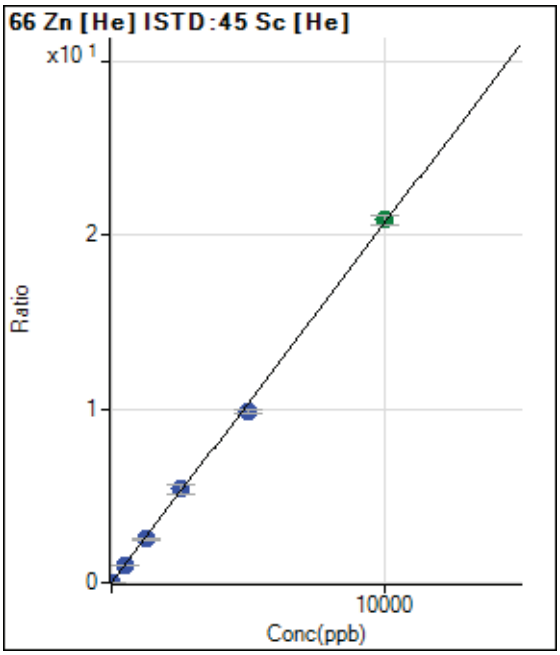


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	552.24	0.0040	P	10.5
2		2.000	1.852	5040.94	0.0363	P	0.6
3		500.000	490.568	1172233.24	8.5575	P	1.1
4		1250.000	1251.205	2929005.90	21.8200	A	0.6
5		2500.000	2681.849	5709352.28	46.7648	A	12.4
6		5000.000	4913.070	10935530.39	85.6684	A	1.6
7		10000.000	9998.324	20399228.17	174.3350	A	4.2
8				11579.79	0.1051	P	27.1

y = 0.0174 * x + 0.0040
R = 0.9998
DL = 0.07169
BEC = 0.228

Weight: <None>
Min Conc: 0

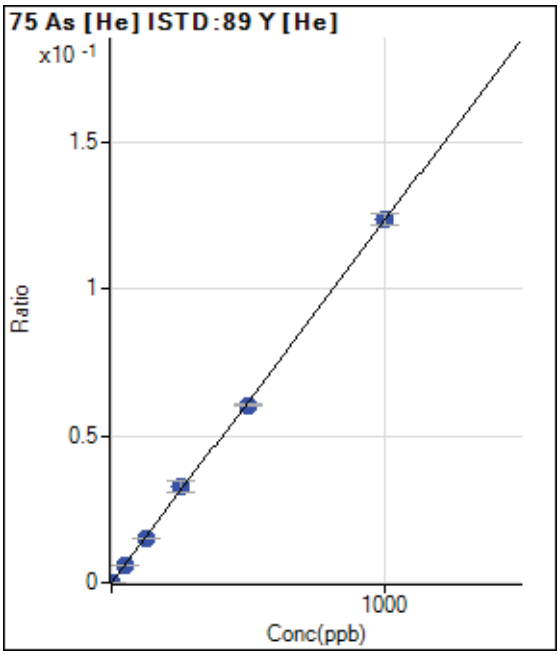
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	165.56	0.0012	P	20.4
2		2.000	2.435	864.48	0.0062	P	5.1
3		500.000	495.929	140447.33	1.0253	P	1.6
4		1250.000	1205.471	334310.59	2.4906	P	0.8
5		2500.000	2596.719	655231.82	5.3636	P	11.4
6		5000.000	4771.691	1257980.66	9.8551	P	1.7
7		10000.000	10095.744	2440141.87	20.8498	A	2.9
8				6201.73	0.0562	P	10.6

y = 0.0021 * x + 0.0012
R = 0.9996
DL = 0.352
BEC = 0.5764

Weight: <None>
Min Conc: 0

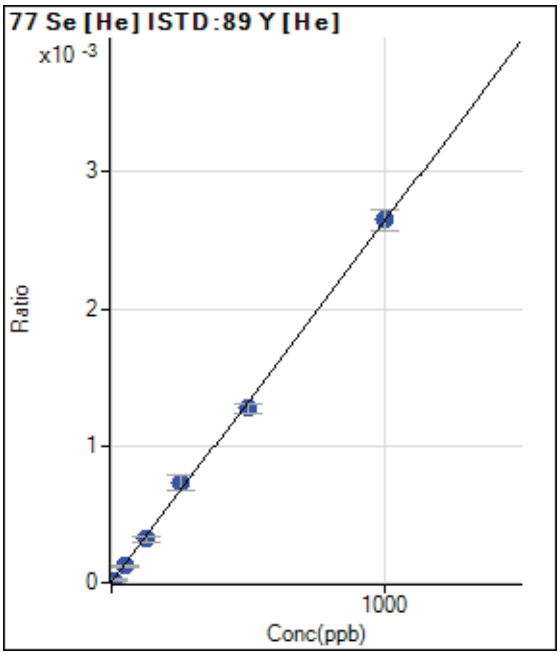


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	4.00	0.0000	P	100.
2		1.000	0.928	144.35	0.0001	P	11.8
3		50.000	49.365	7363.00	0.0061	P	2.5
4		125.000	120.663	17765.58	0.0149	P	1.3
5		250.000	266.398	34956.17	0.0328	P	12.7
6		500.000	489.215	67984.73	0.0603	P	1.2
7		1000.000	1001.867	127351.49	0.1235	P	3.1
8				80.68	0.0001	P	39.0

y = 1.2323E-004 * x + 3.3245E-006
R = 0.9997
DL = 0.08123
BEC = 0.02698

Weight: <None>
Min Conc: 0

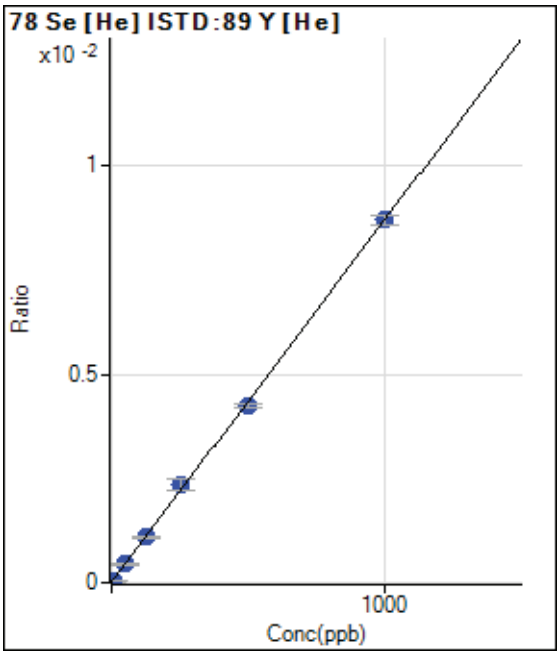
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	3.33	0.0000	P	100.
2		5.000	5.831	22.22	0.0000	P	32.3
3		50.000	46.676	152.23	0.0001	P	10.7
4		125.000	119.511	380.01	0.0003	P	11.1
5		250.000	274.875	774.48	0.0007	P	14.5
6		500.000	481.900	1436.76	0.0013	P	5.0
7		1000.000	1003.679	2732.51	0.0027	P	5.8
8				16.67	0.0000	P	39.4

y = 2.6379E-006 * x + 2.7728E-006
R = 0.9994
DL = 3.164
BEC = 1.051

Weight: <None>
Min Conc: 0

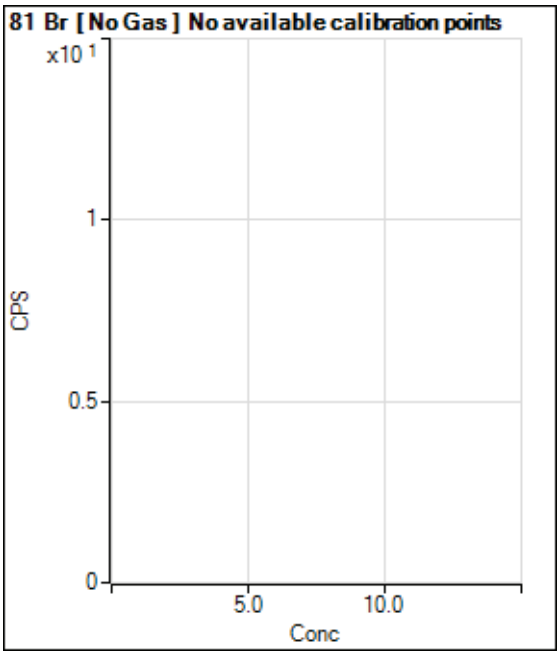


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14.67	0.0000	P	21.5
2		5.000	4.327	61.01	0.0000	P	11.0
3		50.000	50.702	546.73	0.0005	P	11.0
4		125.000	124.062	1300.86	0.0011	P	3.0
5		250.000	270.872	2518.15	0.0024	P	11.6
6		500.000	488.241	4792.63	0.0042	P	2.3
7		1000.000	1000.747	8972.43	0.0087	P	2.8
8				64.68	0.0001	P	12.0

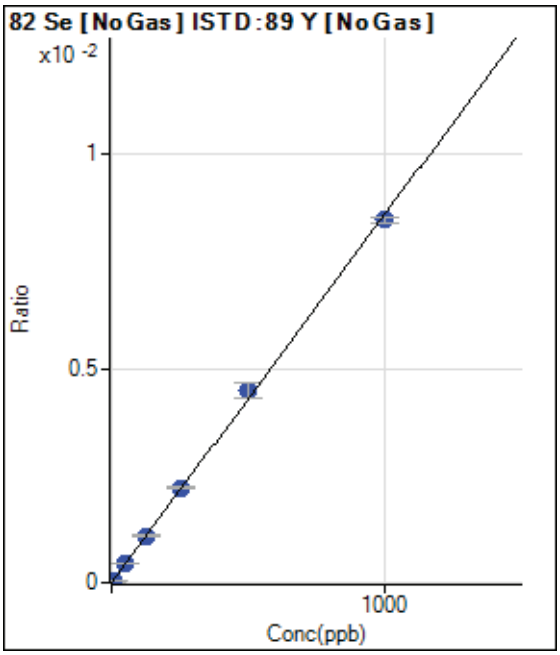
y = 8.6796E-006 * x + 1.2147E-005
R = 0.9996
DL = 0.9019
BEC = 1.399

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				3820.07		P	7.5
2				4222.98		P	8.2
3				3825.62		P	7.7
4				3667.25		P	8.7
5				3670.03		P	5.9
6				3606.13		P	7.1
7				3567.21		P	3.0
8				4528.63		P	5.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	7.50	0.0000	P	246.
2		5.000	4.637	452.46	0.0000	P	6.1
3		50.000	52.733	5017.46	0.0005	P	0.5
4		125.000	126.674	12171.48	0.0011	P	3.8
5		250.000	257.942	24250.35	0.0022	P	0.6
6		500.000	522.875	47221.35	0.0045	P	7.8
7		1000.000	986.233	90986.32	0.0085	P	1.7
8				495.79	0.0001	P	6.6

y = 8.5824E-006 * x + 7.1840E-007

R = 0.9996

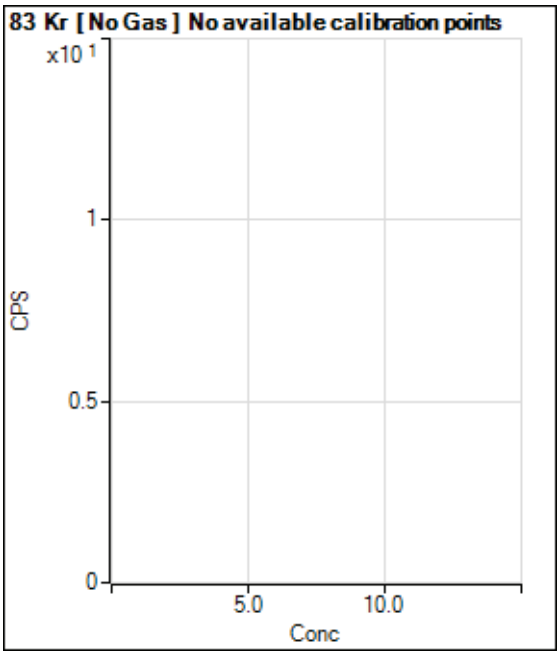
DL = 0.6193

BEC = 0.08371

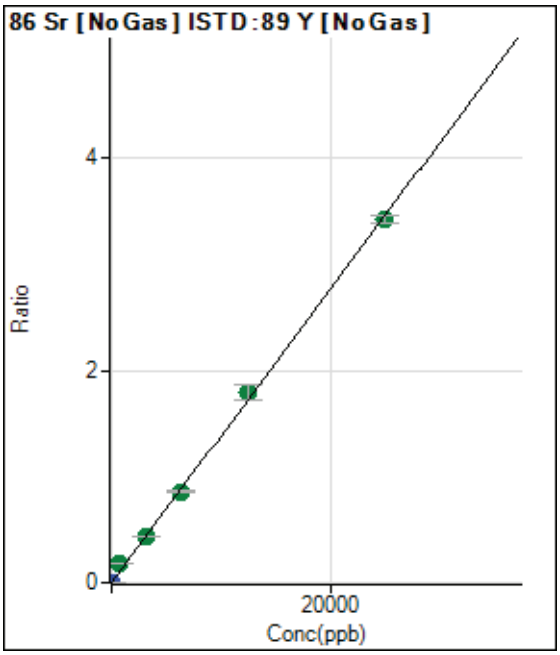
Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				256.64		P	2.8
2				269.97		P	8.4
3				262.05		P	3.6
4				260.39		P	11.0
5				255.80		P	5.3
6				259.55		P	11.2
7				240.81		P	11.6
8				236.22		P	9.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	466.68	0.0000	P	9.7
2		1.000	0.946	1933.53	0.0002	P	12.9
3		625.000	1288.473	1971124.50	0.1781	A	0.9
4		3125.000	3129.350	4839583.31	0.4324	A	2.5
5		6250.000	6219.078	9410289.01	0.8593	A	0.7
6		12500.000	12965.010	18848410.49	1.7914	A	7.7
7		25000.000	24758.095	36770461.59	3.4208	A	2.2
8				17199.34	0.0018	P	70.4

y = 1.3817E-004 * x + 4.2459E-005

R = 0.9995

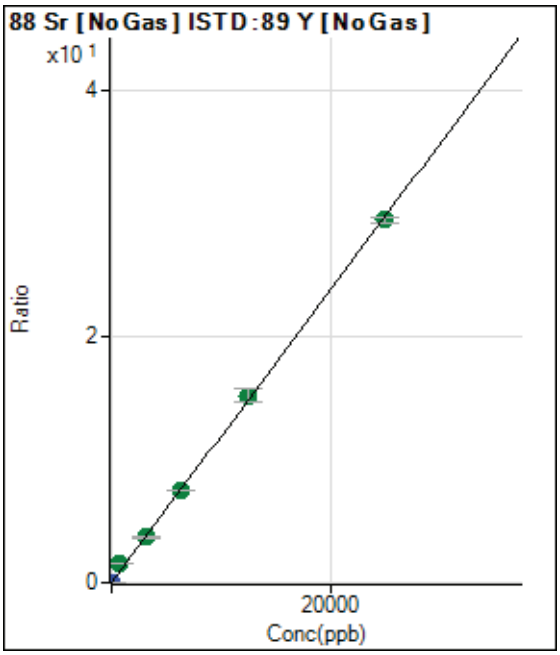
DL = 0.08987

BEC = 0.3073

Weight: <None>

Min Conc: 0

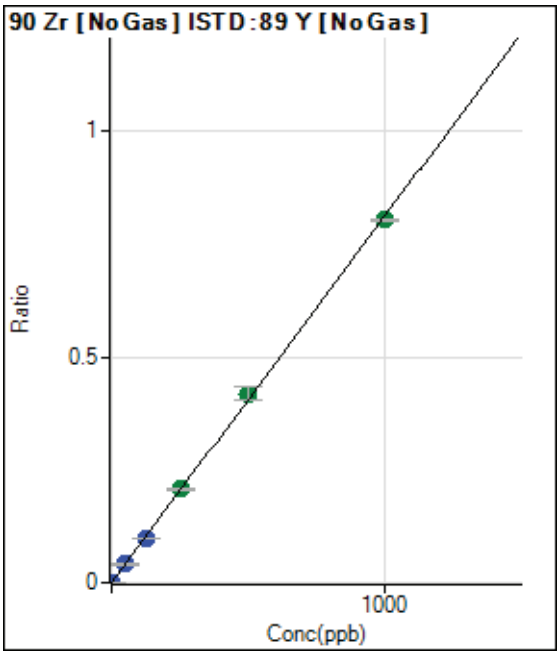
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	655.59	0.0001	P	7.9
2		1.000	0.958	13367.88	0.0012	P	5.4
3		625.000	1272.957	16729679.02	1.5114	A	1.2
4		3125.000	3108.103	41295392.24	3.6901	A	2.7
5		6250.000	6273.849	81568080.29	7.4486	A	0.7
6		12500.000	12807.606	159994234.1	15.2057	A	7.7
7		25000.000	24826.148	316840445.9	29.4745	A	1.4
8				113628.50	0.0121	P	78.6

y = 0.0012 * x + 5.9713E-005
R = 0.9996
DL = 0.01188
BEC = 0.0503

Weight: <None>
Min Conc: 0

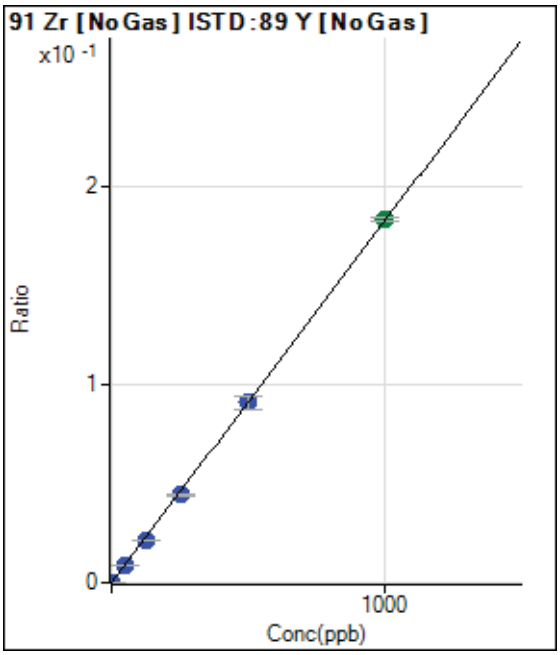


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	419.46	0.0000	P	8.1
2		1.000	0.886	8455.54	0.0008	P	6.1
3		50.000	50.075	450403.45	0.0407	P	0.9
4		125.000	121.118	1100745.04	0.0984	P	2.4
5		250.000	256.567	2281369.39	0.2083	A	2.1
6		500.000	515.939	4407922.06	0.4189	A	7.4
7		1000.000	990.870	8647607.48	0.8044	A	0.3
8				5063.30	0.0005	P	42.4

y = 8.1180E-004 * x + 3.8214E-005
R = 0.9998
DL = 0.01148
BEC = 0.04707

Weight: <None>
Min Conc: 0

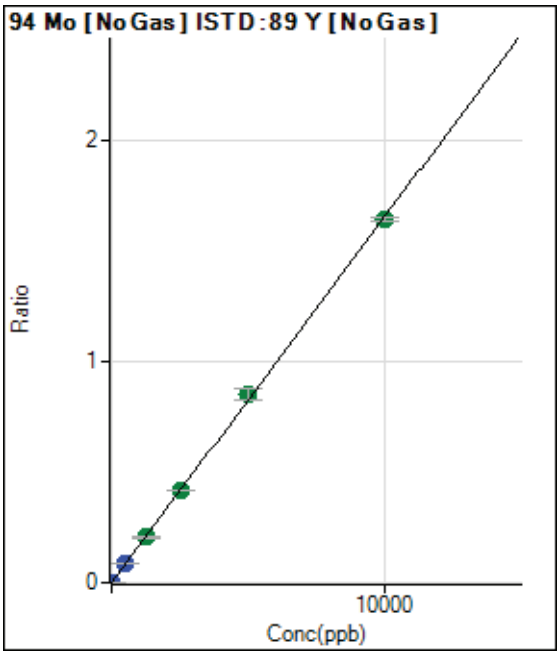
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	72.22	0.0000	P	41.8
2		1.000	0.894	1900.18	0.0002	P	4.6
3		50.000	49.959	101049.07	0.0091	P	1.0
4		125.000	117.383	239889.42	0.0214	P	3.8
5		250.000	242.842	485647.55	0.0443	P	1.4
6		500.000	497.887	956640.91	0.0909	P	7.7
7		1000.000	1003.800	1970228.80	0.1833	A	1.0
8				1584.88	0.0002	P	52.0

y = 1.8259E-004 * x + 6.5362E-006
R = 0.9999
DL = 0.04492
BEC = 0.0358

Weight: <None>
Min Conc: 0

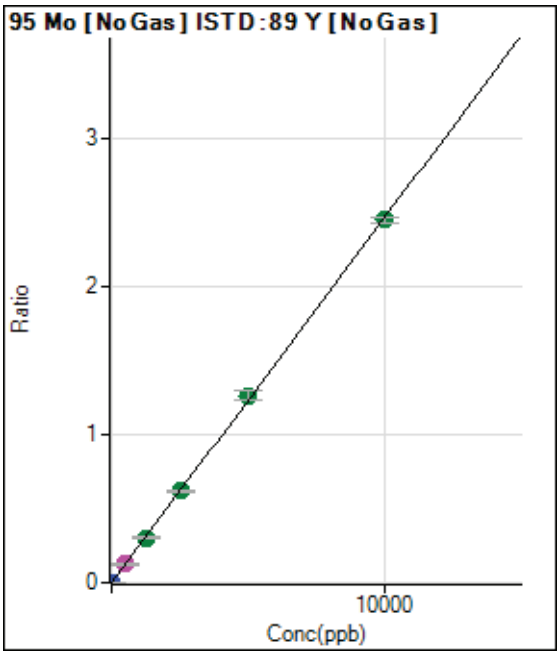


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	125.00	0.0000	P	13.5
2		5.000	5.410	10112.26	0.0009	P	5.8
3		500.000	504.914	923322.29	0.0834	P	1.0
4		1250.000	1246.672	2304585.21	0.2059	A	2.8
5		2500.000	2517.158	4553672.80	0.4158	A	1.0
6		5000.000	5147.602	8955056.80	0.8503	A	5.7
7		10000.000	9922.080	17619119.32	1.6390	A	1.1
8				7749.28	0.0008	P	61.8

y = 1.6519E-004 * x + 1.1377E-005
R = 0.9998
DL = 0.02791
BEC = 0.06887

Weight: <None>
Min Conc: 0

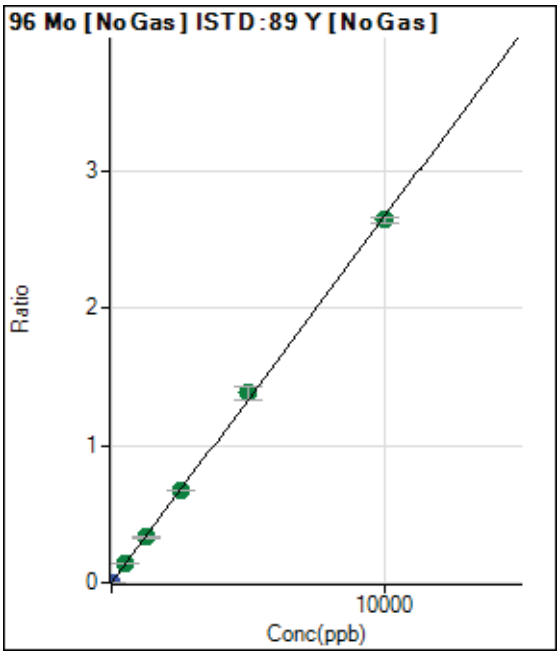
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.45	0.0000	P	59.4
2		5.000	4.760	13134.32	0.0012	P	4.7
3		500.000	504.690	1374573.23	0.1242	M	1.8
4		1250.000	1227.299	3379177.77	0.3020	A	3.2
5		2500.000	2511.705	6768145.38	0.6180	A	2.0
6		5000.000	5115.476	13258372.17	1.2587	A	5.2
7		10000.000	9941.939	26295105.79	2.4463	A	1.3
8				9851.55	0.0010	P	61.1

y = 2.4606E-004 * x + 4.0831E-006
R = 0.9999
DL = 0.02957
BEC = 0.01659

Weight: <None>
Min Conc: 0

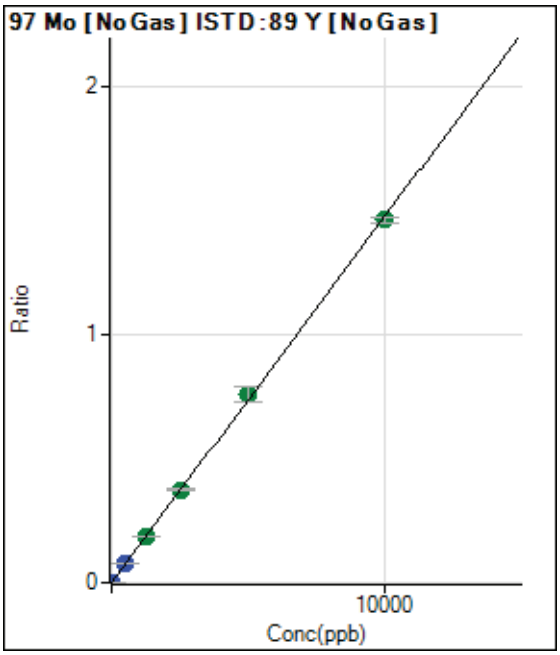


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	116.67	0.0000	P	26.3
2		5.000	4.947	14880.67	0.0013	P	6.2
3		500.000	527.860	1561199.70	0.1411	A	1.5
4		1250.000	1237.623	3700557.98	0.3307	A	2.9
5		2500.000	2498.770	7311561.10	0.6677	A	0.3
6		5000.000	5187.136	14586406.92	1.3860	A	7.3
7		10000.000	9906.894	28452437.44	2.6471	A	1.8
8				11619.37	0.0012	P	62.5

y = 2.6720E-004 * x + 1.0633E-005
R = 0.9997
DL = 0.03141
BEC = 0.03979

Weight: <None>
Min Conc: 0

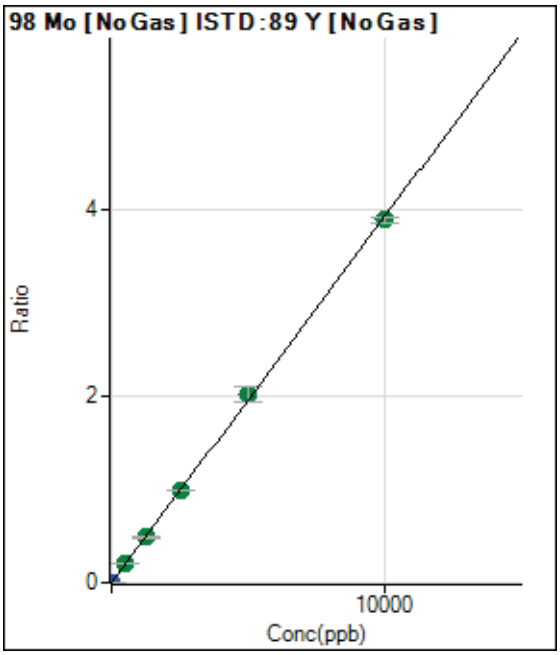
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	13.89	0.0000	P	36.0
2		5.000	4.627	7646.76	0.0007	P	9.1
3		500.000	511.264	835654.77	0.0755	P	1.4
4		1250.000	1251.312	2067937.03	0.1848	A	2.1
5		2500.000	2546.798	4118331.78	0.3761	A	0.8
6		5000.000	5141.251	7987459.21	0.7592	A	7.9
7		10000.000	9916.948	15740487.68	1.4644	A	1.7
8				6365.16	0.0007	P	65.8

y = 1.4767E-004 * x + 1.2688E-006
R = 0.9998
DL = 0.009268
BEC = 0.008592

Weight: <None>
Min Conc: 0

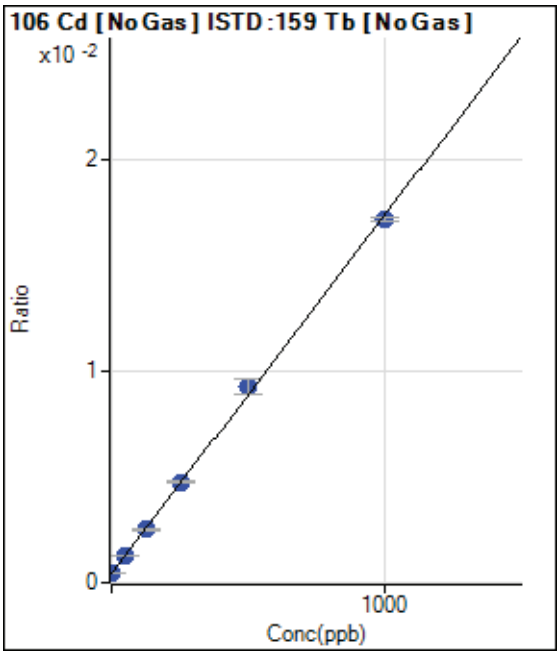


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	66.67	0.0000	P	18.9
2		5.000	4.633	20323.74	0.0018	P	5.4
3		500.000	522.145	2262499.92	0.2044	A	1.1
4		1250.000	1249.282	5472610.19	0.4890	A	2.7
5		2500.000	2535.507	10869089.74	0.9926	A	0.8
6		5000.000	5144.006	21189951.86	2.0137	A	7.6
7		10000.000	9918.103	41733074.89	3.8825	A	1.3
8				16183.30	0.0017	P	59.8

y = 3.9146E-004 * x + 6.0393E-006
R = 0.9998
DL = 0.008759
BEC = 0.01543

Weight: <None>
Min Conc: 0

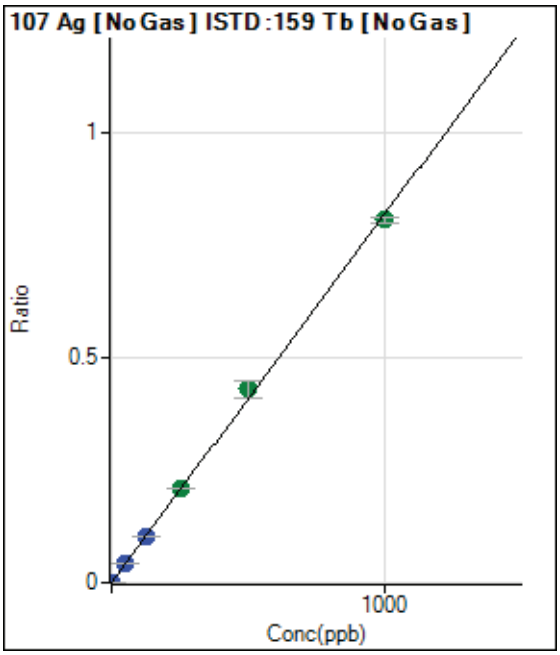
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	3481.10	0.0004	P	5.3
2		1.000	1.606	3761.73	0.0005	P	5.2
3		50.000	51.956	10810.11	0.0013	P	1.4
4		125.000	124.437	20974.86	0.0025	P	3.0
5		250.000	255.097	39663.36	0.0047	P	1.5
6		500.000	522.255	74800.43	0.0093	P	8.5
7		1000.000	987.570	140284.26	0.0171	P	1.2
8				2969.85	0.0004	P	7.8

y = 1.6925E-005 * x + 4.2568E-004
R = 0.9996
DL = 3.964
BEC = 25.15

Weight: <None>
Min Conc: 0

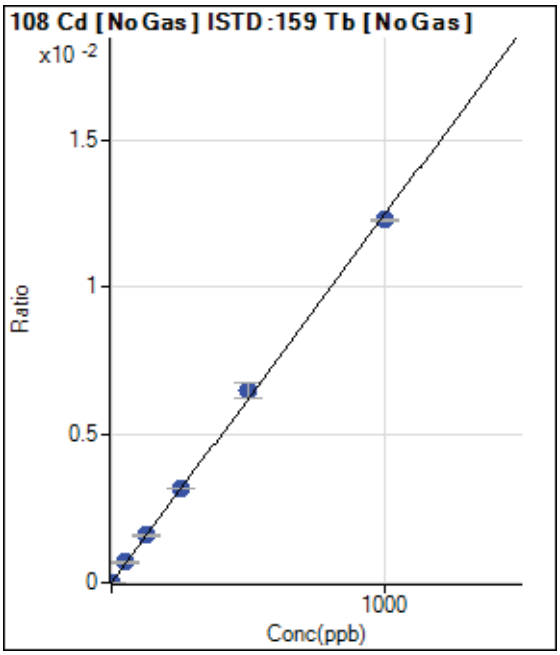


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	91.67	0.0000	P	55.9
2		1.000	0.974	6693.46	0.0008	P	4.5
3		50.000	50.616	342494.52	0.0413	P	0.7
4		125.000	124.475	842100.59	0.1017	P	1.4
5		250.000	257.657	1759773.02	0.2104	A	0.4
6		500.000	525.365	3462436.67	0.4290	A	9.3
7		1000.000	985.438	6586358.18	0.8048	A	1.6
8				1002.84	0.0001	P	7.4

y = 8.1665E-004 * x + 1.1130E-005
R = 0.9995
DL = 0.02285
BEC = 0.01363

Weight: <None>
Min Conc: 0

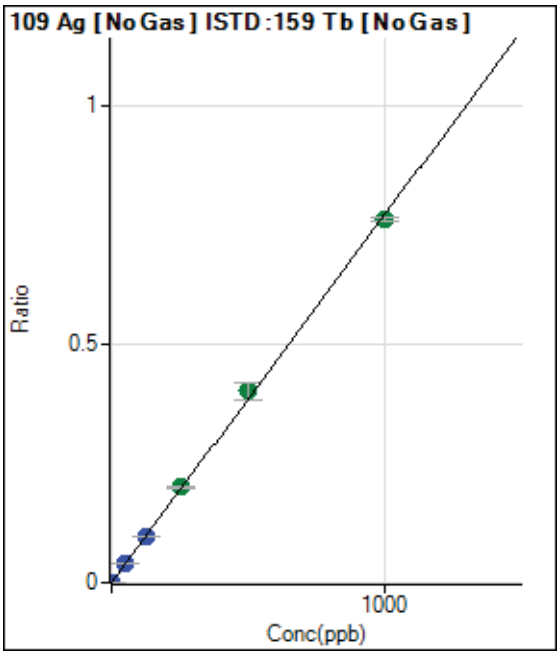
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	20.83	0.0000	P	19.8
2		1.000	1.032	127.78	0.0000	P	9.3
3		50.000	55.490	5742.94	0.0007	P	4.8
4		125.000	129.498	13374.70	0.0016	P	4.4
5		250.000	257.463	26831.81	0.0032	P	0.7
6		500.000	522.093	52519.04	0.0065	P	7.8
7		1000.000	986.251	100538.62	0.0123	P	0.3
8				126.39	0.0000	P	17.1

y = 1.2451E-005 * x + 2.5463E-006
R = 0.9996
DL = 0.1215
BEC = 0.2045

Weight: <None>
Min Conc: 0

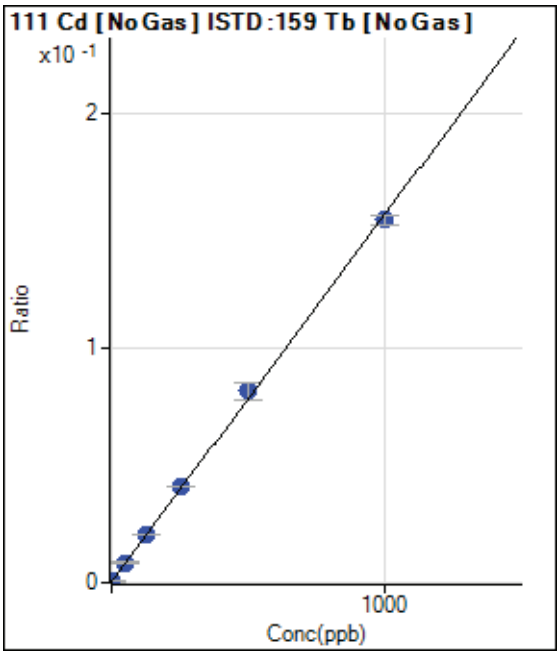


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.00	0.0000	P	33.1
2		1.000	0.973	6321.08	0.0008	P	3.9
3		50.000	51.797	331390.23	0.0400	P	0.7
4		125.000	126.308	807924.85	0.0975	P	1.6
5		250.000	260.524	1682541.17	0.2012	A	1.4
6		500.000	520.992	3245678.18	0.4023	A	9.6
7		1000.000	986.620	6235189.68	0.7618	A	0.9
8				902.83	0.0001	P	3.8

y = 7.7215E-004 * x + 9.1690E-006
R = 0.9996
DL = 0.01179
BEC = 0.01187

Weight: <None>
Min Conc: 0

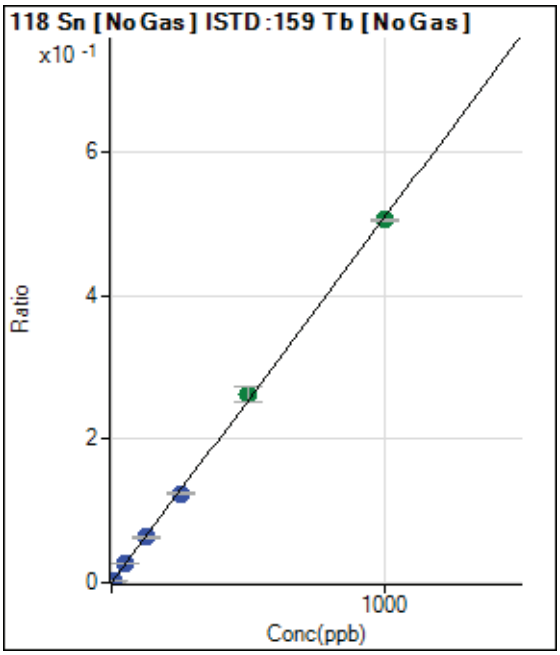
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2440.24	0.0003	P	5.4
2		1.000	1.128	3945.24	0.0005	P	5.3
3		50.000	53.013	71243.22	0.0086	P	0.7
4		125.000	129.460	170412.89	0.0206	P	1.2
5		250.000	258.230	340694.38	0.0407	P	0.3
6		500.000	521.013	660933.37	0.0819	P	9.0
7		1000.000	986.728	1267003.25	0.1548	P	2.4
8				2777.98	0.0004	P	16.5

y = 1.5661E-004 * x + 2.9841E-004
R = 0.9996
DL = 0.306
BEC = 1.905

Weight: <None>
Min Conc: 0

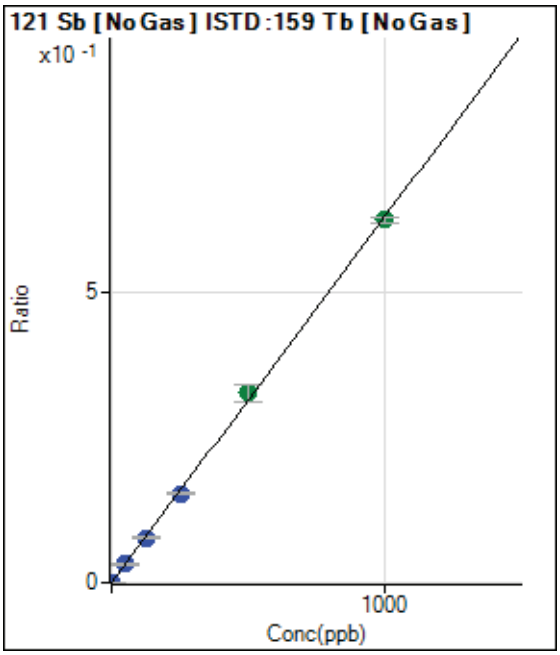


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	791.71	0.0001	P	9.3
2		5.000	4.604	20232.04	0.0024	P	4.1
3		50.000	50.098	211631.95	0.0255	P	0.5
4		125.000	123.844	521944.32	0.0630	P	1.9
5		250.000	244.563	1039871.25	0.1243	P	0.7
6		500.000	515.200	2113558.38	0.2618	A	8.6
7		1000.000	993.901	4133483.64	0.5050	A	0.8
8				3303.58	0.0005	P	28.3

y = 5.0803E-004 * x + 9.6749E-005
R = 0.9998
DL = 0.05319
BEC = 0.1904

Weight: <None>
Min Conc: 0

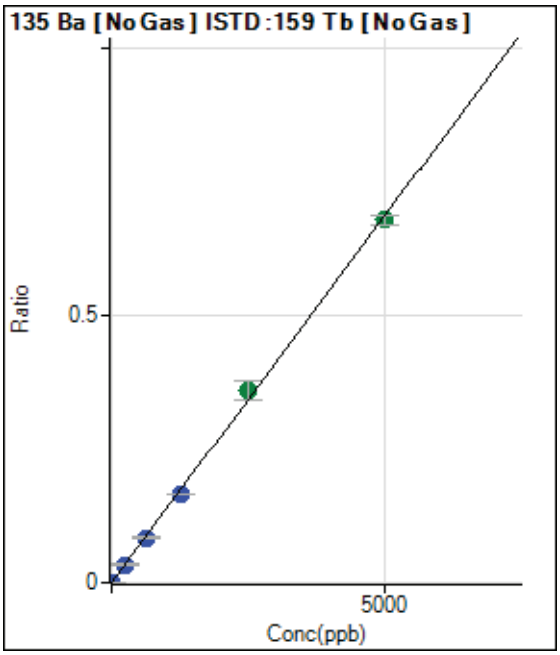
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	41.67	0.0000	P	73.9
2		2.000	1.844	9681.48	0.0012	P	0.7
3		50.000	50.304	262046.08	0.0316	P	2.3
4		125.000	123.189	641670.48	0.0775	P	2.2
5		250.000	243.860	1282495.99	0.1534	P	1.0
6		500.000	518.292	2631531.68	0.3259	A	8.2
7		1000.000	992.601	5108290.09	0.6242	A	1.5
8				3136.95	0.0004	P	32.0

y = 6.2883E-004 * x + 5.1352E-006
R = 0.9997
DL = 0.0181
BEC = 0.008166

Weight: <None>
Min Conc: 0

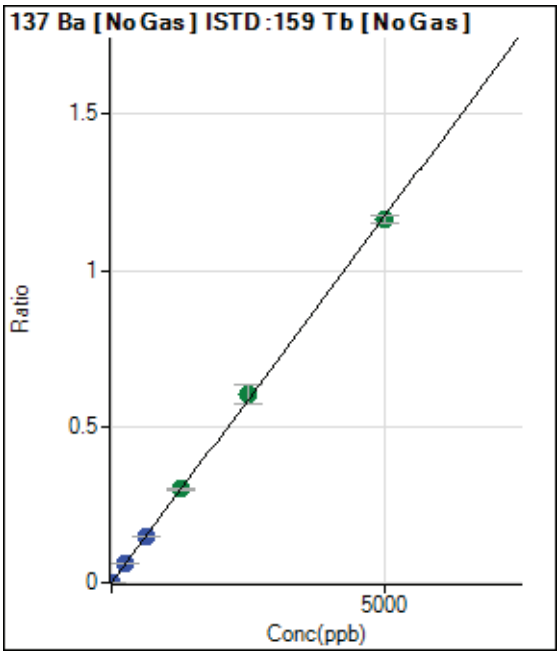


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	30.56	0.0000	P	55.8
2		10.000	9.352	10693.40	0.0013	P	2.5
3		250.000	248.943	282920.43	0.0342	P	0.7
4		625.000	611.147	694438.51	0.0838	P	1.8
5		1250.000	1208.680	1386689.44	0.1658	P	1.1
6		2500.000	2623.931	2905038.72	0.3600	A	9.0
7		5000.000	4950.150	5556612.58	0.6791	A	2.9
8				4407.16	0.0006	P	31.8

y = 1.3718E-004 * x + 3.7271E-006
R = 0.9995
DL = 0.0455
BEC = 0.02717

Weight: <None>
Min Conc: 0

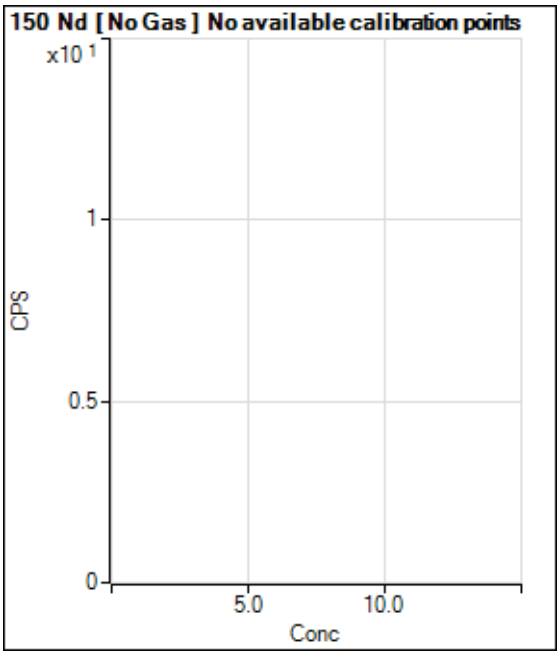
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	86.11	0.0000	P	37.9
2		10.000	9.381	18343.39	0.0022	P	5.8
3		250.000	252.933	491331.62	0.0593	P	0.8
4		625.000	627.295	1218277.70	0.1471	P	1.3
5		1250.000	1275.039	2499898.32	0.2989	A	0.5
6		2500.000	2578.149	4876811.74	0.6044	A	9.6
7		5000.000	4954.233	9505192.05	1.1615	A	2.2
8				9334.49	0.0013	P	14.0

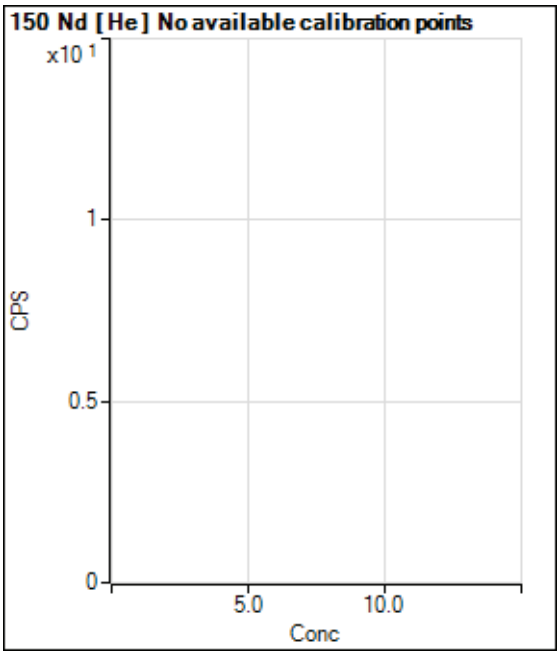
y = 2.3444E-004 * x + 1.0481E-005
R = 0.9998
DL = 0.05087
BEC = 0.0447

Weight: <None>
Min Conc: 0

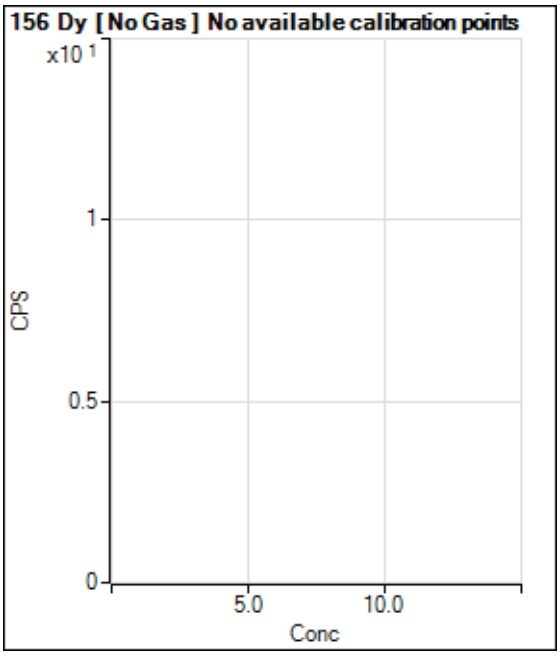


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				15.56		P	98.9
2				13.33		P	50.0
3				28.89		P	96.1
4				51.11		P	19.9
5				86.67		P	20.4
6				153.34		P	11.5
7				266.68		P	15.0
8				151.12		P	25.5

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

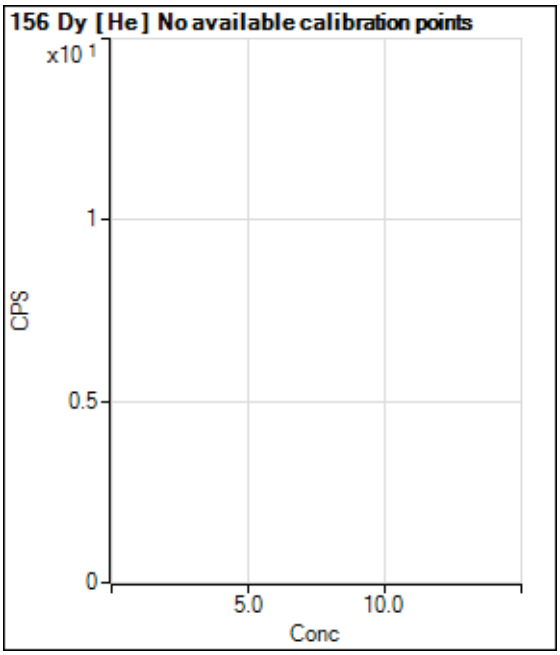


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	173.
2				6.67		P	173.
3				2.22		P	86.6
4				4.44		P	114.
5				6.66		P	86.6
6				15.56		P	32.7
7				20.00		P	28.9
8				57.78		P	21.8

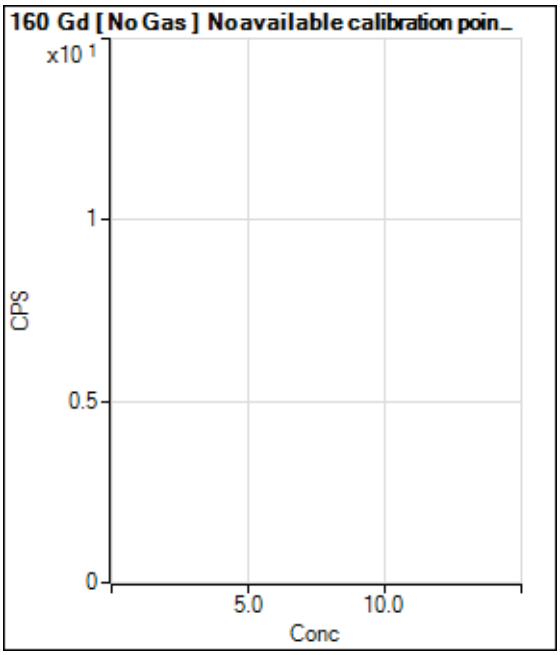


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				8.33		P	100.
2				5.55		P	86.6
3				38.89		P	44.6
4				36.11		P	48.0
5				88.89		P	28.6
6				219.45		P	11.6
7				280.57		P	3.4
8				1041.73		P	2.8

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

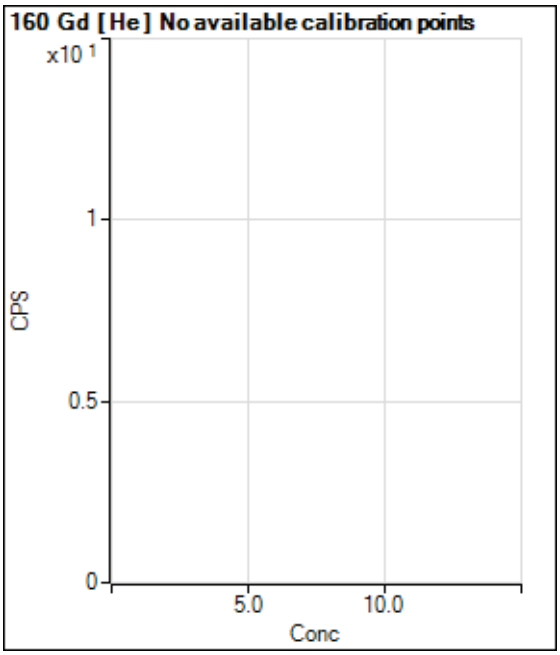


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				3.33		P	100.
2				2.22		P	86.6
3				10.00		P	66.7
4				32.22		P	6.0
5				51.11		P	32.2
6				77.78		P	19.3
7				181.12		P	9.3
8				480.01		P	5.5

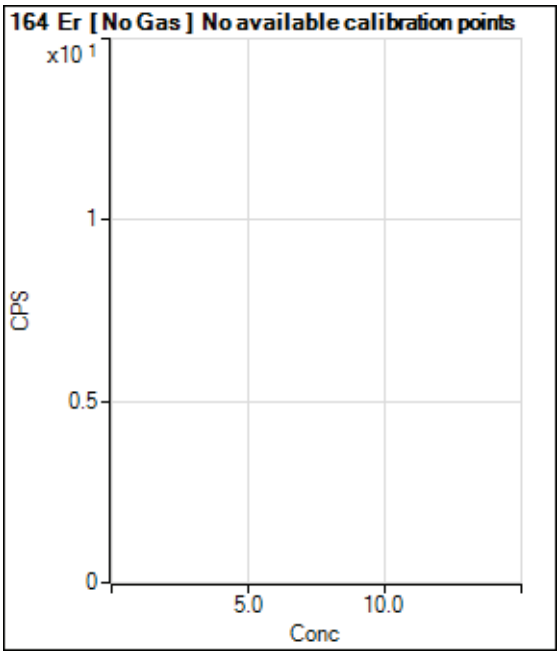


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				102.78		P	4.7
2				72.22		P	48.0
3				100.00		P	30.0
4				111.12		P	55.3
5				105.56		P	9.1
6				216.67		P	11.5
7				394.46		P	15.9
8				1136.20		P	13.6

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

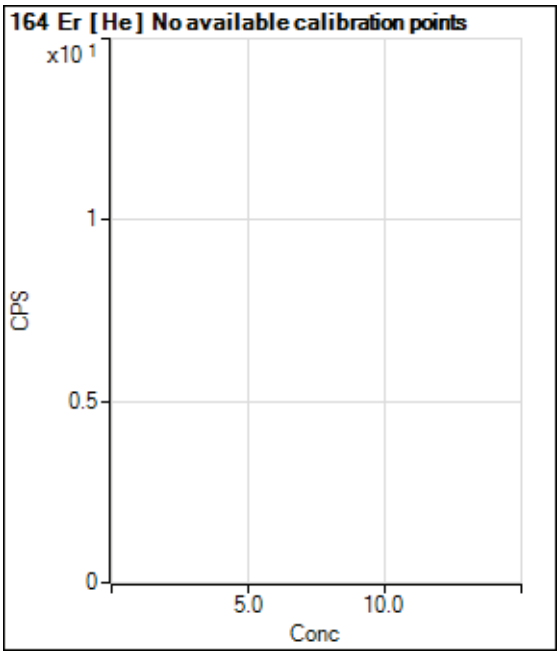


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				121.11		P	12.7
2				102.23		P	5.0
3				130.00		P	7.7
4				127.78		P	14.8
5				133.34		P	12.5
6				182.22		P	7.4
7				233.34		P	14.1
8				617.80		P	8.0

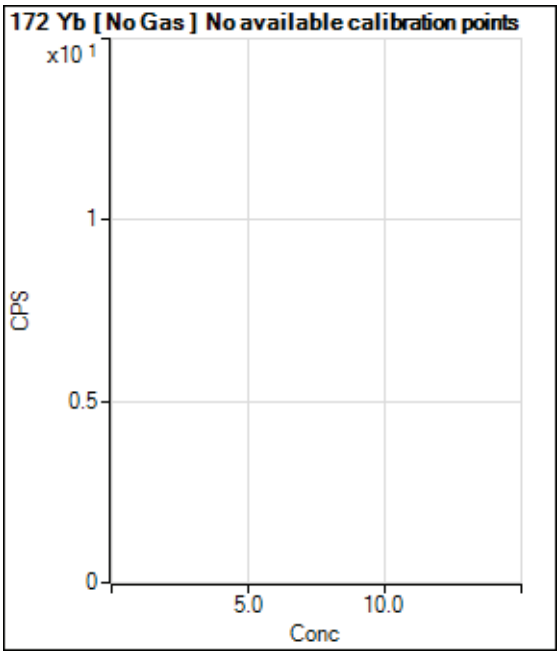


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				52.78		P	32.9
2				69.44		P	13.9
3				72.23		P	24.0
4				41.67		P	69.3
5				86.11		P	40.3
6				97.22		P	55.1
7				105.56		P	39.7
8				177.79		P	23.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

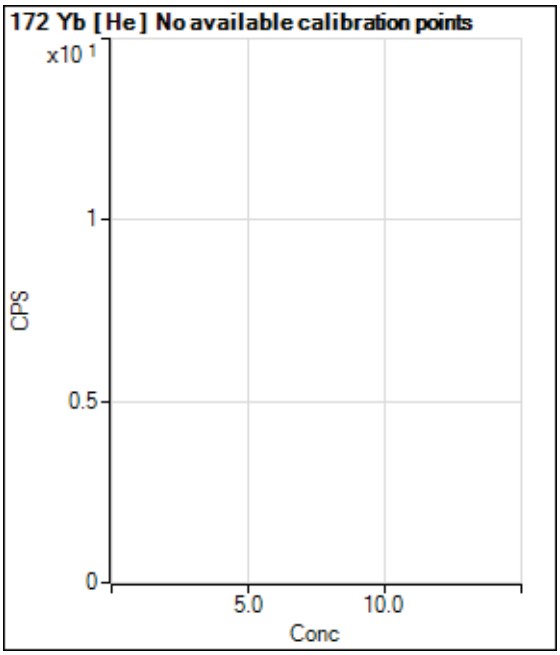


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				24.45		P	28.4
2				31.11		P	22.3
3				32.22		P	31.6
4				16.67		P	20.0
5				31.11		P	32.7
6				23.33		P	37.8
7				35.55		P	37.9
8				72.22		P	29.7

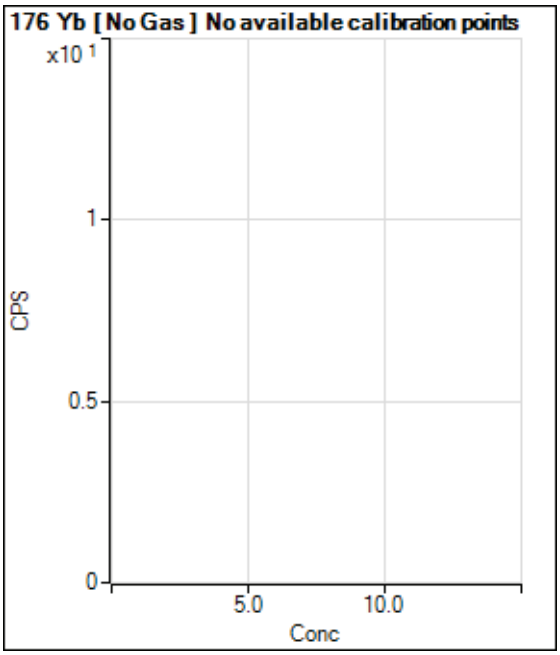


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				52.78		P	18.2
2				58.33		P	24.7
3				47.22		P	44.4
4				47.22		P	36.7
5				100.00		P	25.0
6				113.89		P	8.4
7				136.11		P	7.1
8				97.23		P	13.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

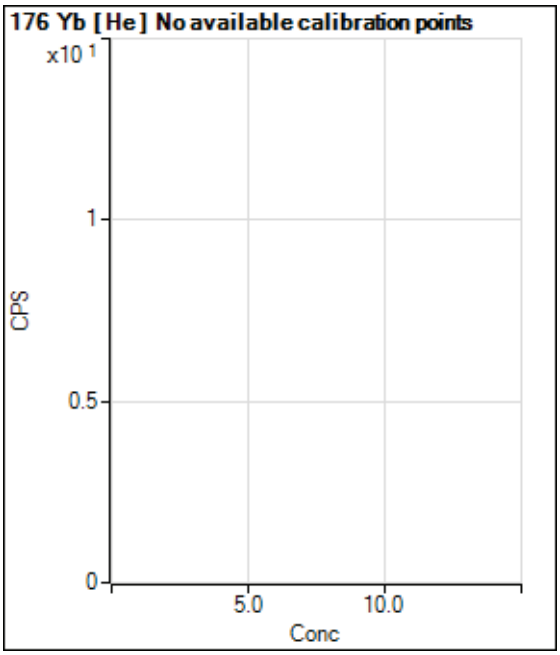


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				16.67		P	88.2
2				40.74		P	28.4
3				29.63		P	60.3
4				42.59		P	39.8
5				31.48		P	44.4
6				57.41		P	11.2
7				74.08		P	11.5
8				74.08		P	37.0

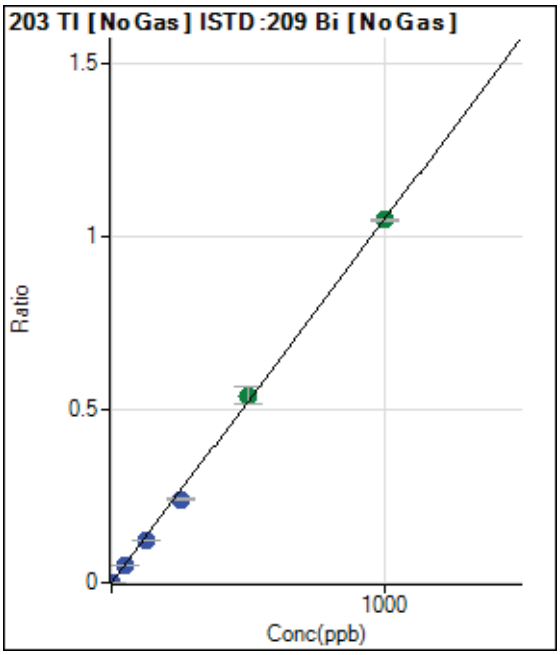


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1133.42		P	2.7
2				1083.41		P	5.3
3				2175.24		P	3.4
4				3925.69		P	2.8
5				6565.71		P	2.3
6				11989.13		P	1.5
7				23507.62		P	2.3
8				1027.84		P	8.2

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				9796.38		P	1.0
2				10148.51		P	5.1
3				10250.43		P	3.1
4				11025.16		P	1.8
5				11583.07		P	7.2
6				14411.78		P	1.7
7				18329.62		P	3.3
8				8278.67		P	8.1

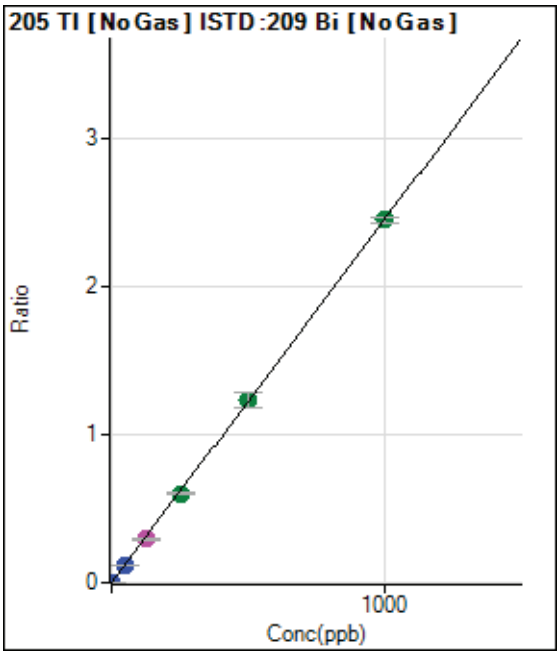


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	216.67	0.0000	P	28.6
2		1.000	0.866	5184.53	0.0009	P	4.5
3		50.000	46.112	266703.56	0.0485	P	2.6
4		125.000	115.954	667823.47	0.1219	P	1.1
5		250.000	229.409	1334602.45	0.2411	P	1.4
6		500.000	514.612	2837834.70	0.5407	A	9.0
7		1000.000	999.167	5559323.61	1.0497	A	0.3
8				2267.43	0.0005	P	52.7

y = 0.0011 * x + 3.9725E-005
R = 0.9996
DL = 0.03243
BEC = 0.03781

Weight: <None>
Min Conc: 0

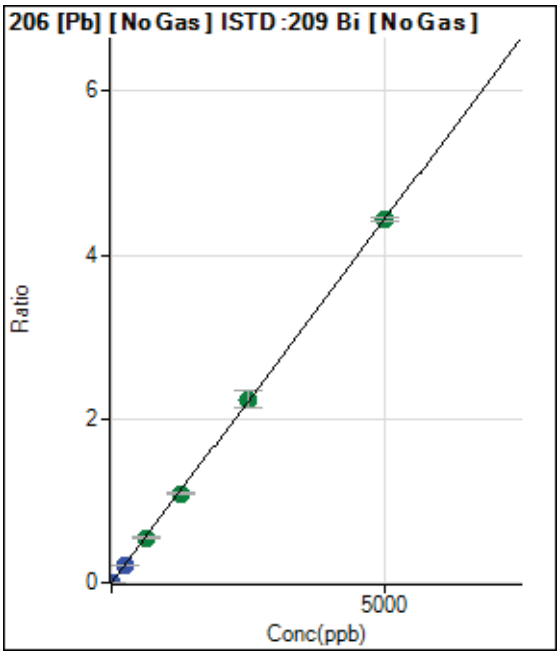
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	436.13	0.0001	P	13.5
2		1.000	0.875	12147.65	0.0022	P	4.4
3		50.000	47.942	647381.63	0.1177	P	1.7
4		125.000	121.680	1635832.16	0.2985	M	4.4
5		250.000	244.863	3325685.90	0.6007	A	1.8
6		500.000	504.292	6493027.97	1.2370	A	8.8
7		1000.000	999.656	12985589.70	2.4519	A	1.3
8				5304.57	0.0012	P	60.5

y = 0.0025 * x + 7.9576E-005
R = 1.0000
DL = 0.01311
BEC = 0.03244

Weight: <None>
Min Conc: 0

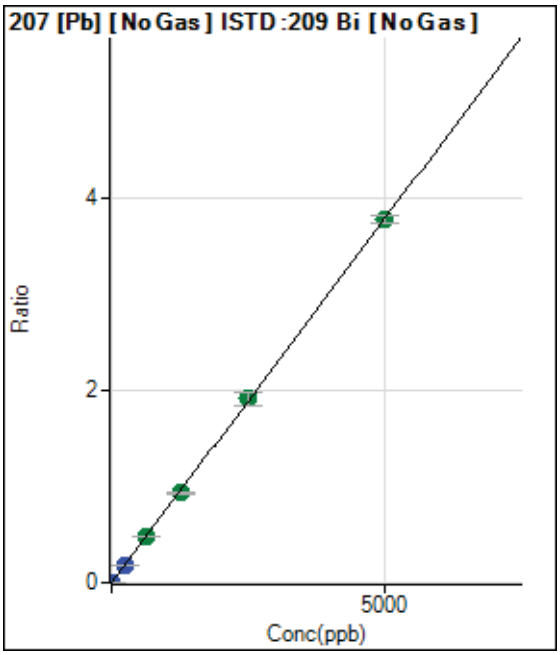


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	750.04	0.0001	P	1.9
2		1.000	0.891	5054.80	0.0009	P	3.7
3		250.000	230.654	1125526.27	0.2046	P	2.4
4		625.000	618.720	3006201.49	0.5486	A	1.3
5		1250.000	1226.519	6020040.12	1.0873	A	1.3
6		2500.000	2524.680	11744452.69	2.2380	A	9.4
7		5000.000	4995.283	23445631.54	4.4279	A	0.9
8				13824.95	0.0031	P	36.8

y = 8.8638E-004 * x + 1.3712E-004
R = 1.0000
DL = 0.008602
BEC = 0.1547

Weight: <None>
Min Conc: 0

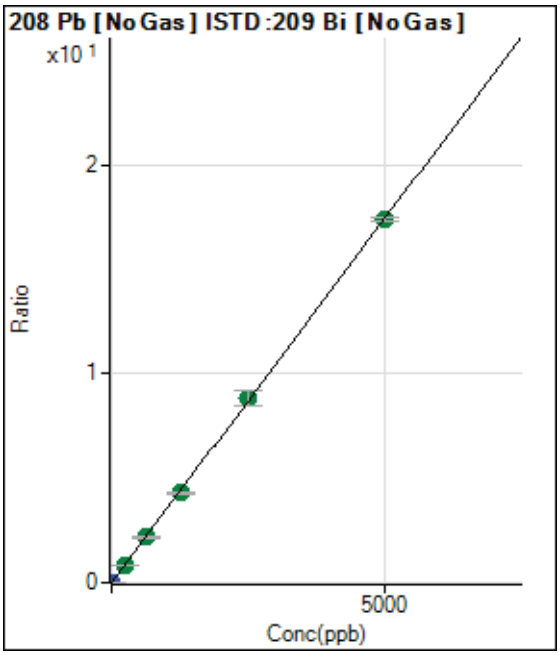
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	575.95	0.0001	P	4.8
2		1.000	0.905	4308.22	0.0008	P	4.5
3		250.000	235.135	977757.49	0.1777	P	2.0
4		625.000	626.711	2594863.14	0.4735	A	1.5
5		1250.000	1230.384	5146173.44	0.9295	A	1.9
6		2500.000	2532.804	10048232.17	1.9133	A	7.6
7		5000.000	4989.031	19951127.30	3.7686	A	2.2
8				13327.48	0.0029	P	25.5

y = 7.5536E-004 * x + 1.0533E-004
R = 1.0000
DL = 0.01997
BEC = 0.1394

Weight: <None>
Min Conc: 0

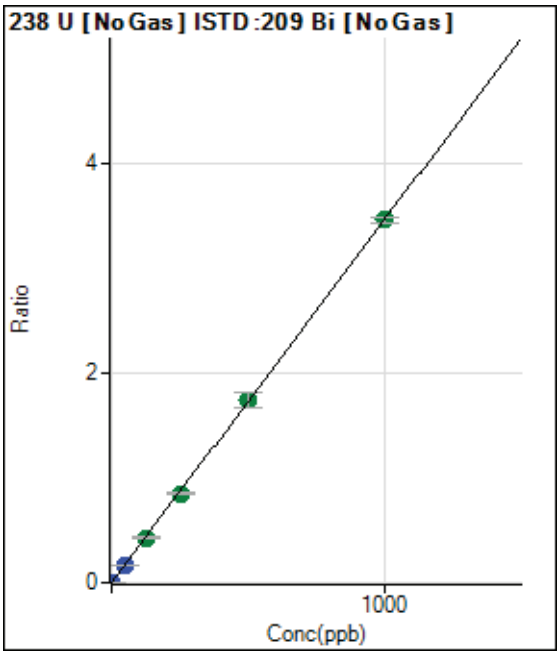


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2870.56	0.0005	P	4.7
2		1.000	0.892	19815.57	0.0036	P	2.7
3		250.000	245.177	4703088.71	0.8549	A	2.0
4		625.000	623.240	11905054.17	2.1722	A	0.9
5		1250.000	1229.516	23723322.63	4.2848	A	1.6
6		2500.000	2537.726	46420619.21	8.8433	A	8.8
7		5000.000	4986.719	92005654.37	17.3769	A	1.2
8				54973.87	0.0122	P	35.0

y = 0.0035 * x + 5.2499E-004
R = 0.9999
DL = 0.02129
BEC = 0.1507

Weight: <None>
Min Conc: 0

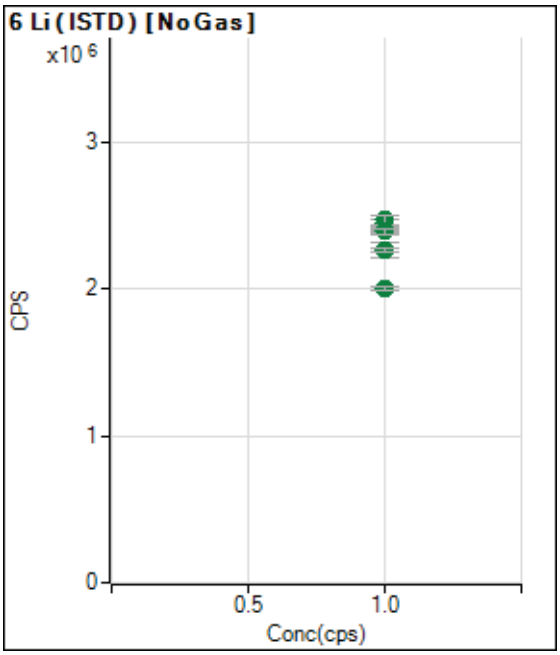
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	52.78	0.0000	P	18.0
2		1.000	0.904	17095.32	0.0031	P	3.8
3		50.000	47.039	894408.41	0.1626	P	1.6
4		125.000	123.881	2346149.75	0.4281	A	2.5
5		250.000	244.947	4686454.71	0.8465	A	1.6
6		500.000	503.677	9135622.60	1.7406	A	9.1
7		1000.000	999.713	18290245.37	3.4548	A	1.8
8				5567.90	0.0012	P	88.4

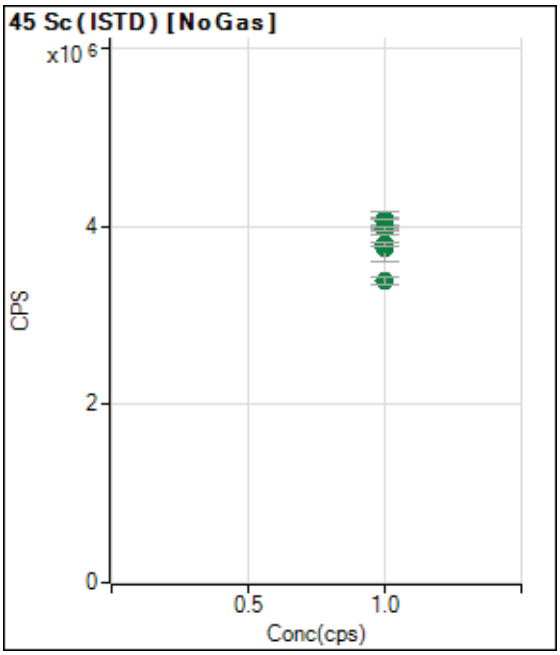
y = 0.0035 * x + 9.6448E-006
R = 1.0000
DL = 0.001505
BEC = 0.002791

Weight: <None>
Min Conc: 0

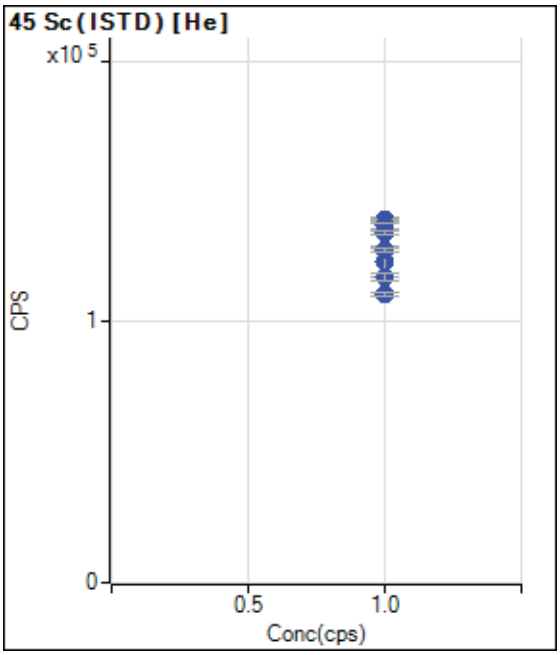


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2454345.01		A	1.3
2		1.000		2405892.08		A	1.1
3		1.000		2470405.58		A	2.5
4		1.000		2393775.29		A	1.1
5		1.000		2390234.92		A	1.8
6		1.000		2268507.84		A	4.4
7		1.000		2261451.33		A	1.4
8		1.000		2000427.15		A	1.3

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

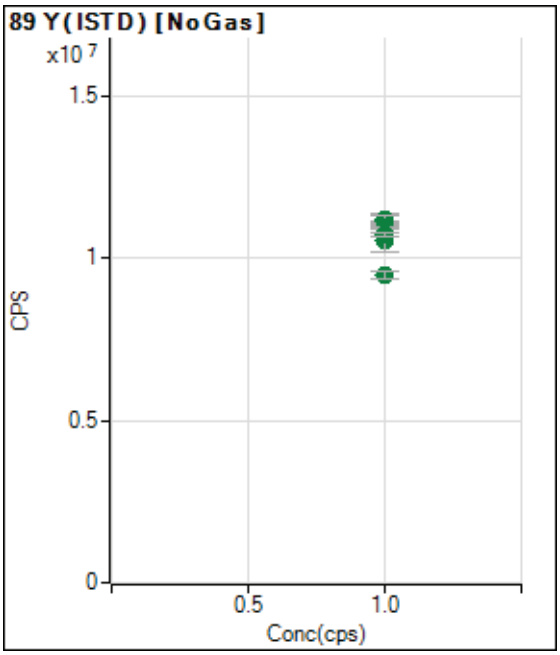


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4046413.03		A	2.0
2		1.000		4069977.23		A	5.0
3		1.000		4054768.31		A	2.3
4		1.000		4046277.33		A	1.4
5		1.000		3969418.55		A	1.4
6		1.000		3754720.26		A	8.5
7		1.000		3800693.28		A	0.8
8		1.000		3386159.39		A	2.1

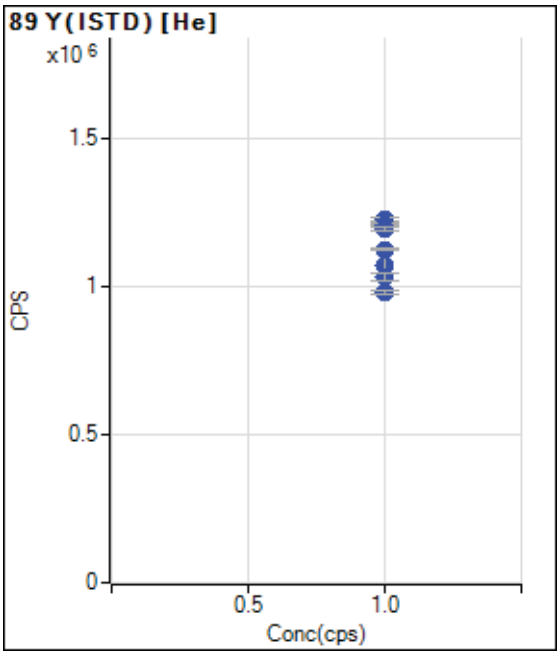


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		138990.83		P	1.1
2		1.000		139019.96		P	0.5
3		1.000		136997.99		P	1.7
4		1.000		134238.47		P	1.2
5		1.000		123078.86		P	9.8
6		1.000		127661.59		P	1.4
7		1.000		117101.27		P	3.0
8		1.000		110398.50		P	1.4

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

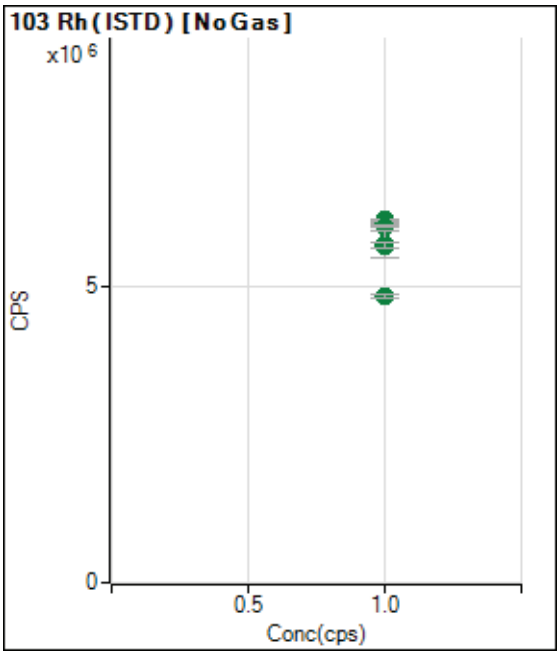


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		10995011.09		A	3.2
2		1.000		11183817.33		A	3.6
3		1.000		11069050.11		A	0.8
4		1.000		11195083.58		A	2.4
5		1.000		10950774.28		A	0.4
6		1.000		10557361.65		A	6.6
7		1.000		10750049.42		A	1.2
8		1.000		9504659.44		A	2.3

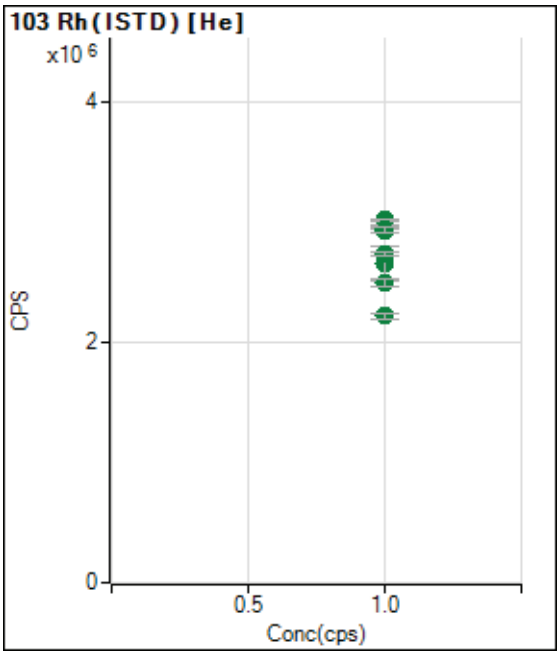


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1206524.06		P	0.6
2		1.000		1226867.07		P	1.1
3		1.000		1209813.45		P	1.0
4		1.000		1194638.99		P	1.3
5		1.000		1073820.47		P	10.0
6		1.000		1127657.01		P	0.4
7		1.000		1031938.70		P	2.5
8		1.000		981549.92		P	1.4

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

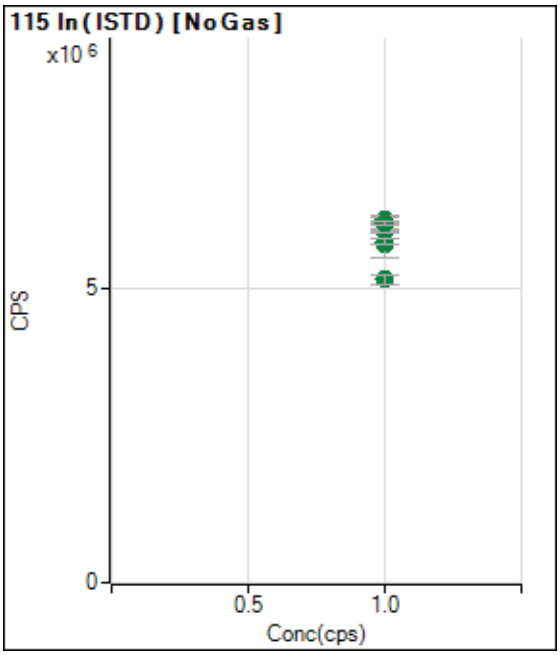


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6092489.98		A	1.3
2		1.000		6032156.95		A	3.5
3		1.000		6049461.07		A	1.5
4		1.000		6117256.47		A	0.3
5		1.000		6008640.02		A	0.5
6		1.000		5708595.40		A	8.0
7		1.000		5681466.92		A	1.9
8		1.000		4831476.49		A	1.4

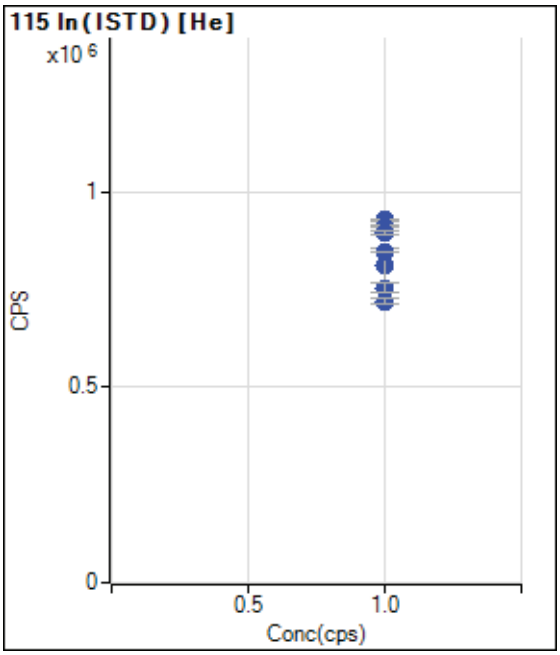


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2956136.24		A	1.0
2		1.000		3020581.62		A	0.4
3		1.000		2947501.52		A	2.3
4		1.000		2936463.11		A	1.3
5		1.000		2653034.32		A	11.1
6		1.000		2741942.74		A	1.3
7		1.000		2493181.21		A	2.4
8		1.000		2221765.21		A	2.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

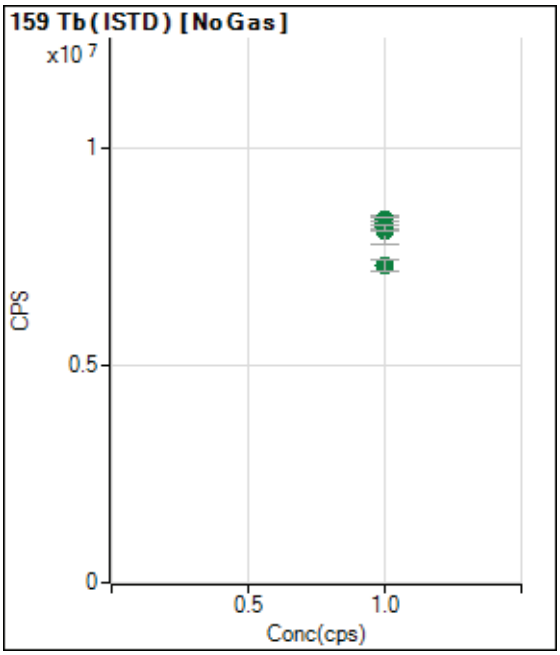


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6023477.06		A	1.8
2		1.000		6161737.50		A	2.2
3		1.000		6116583.89		A	3.0
4		1.000		5991026.11		A	0.5
5		1.000		6106464.56		A	0.7
6		1.000		5743807.40		A	7.5
7		1.000		5789182.08		A	1.5
8		1.000		5153913.61		A	3.1

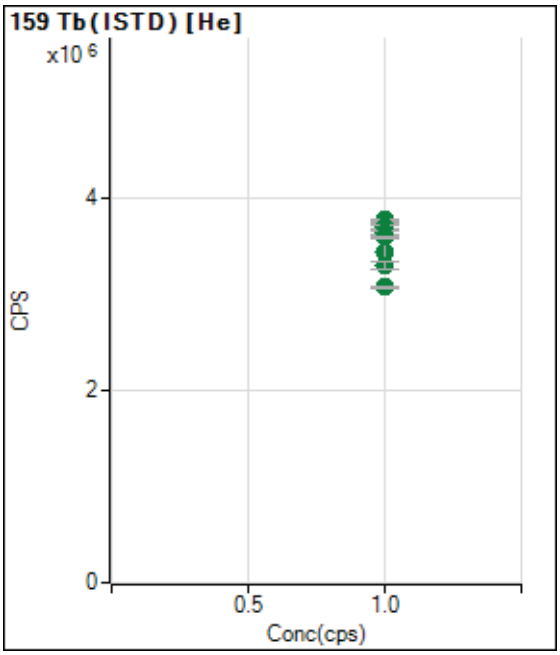


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		913266.68		P	0.5
2		1.000		928236.35		P	0.3
3		1.000		912496.05		P	0.4
4		1.000		895065.41		P	0.9
5		1.000		811011.62		P	10.9
6		1.000		847463.83		P	0.2
7		1.000		754527.47		P	3.1
8		1.000		720095.14		P	1.7

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

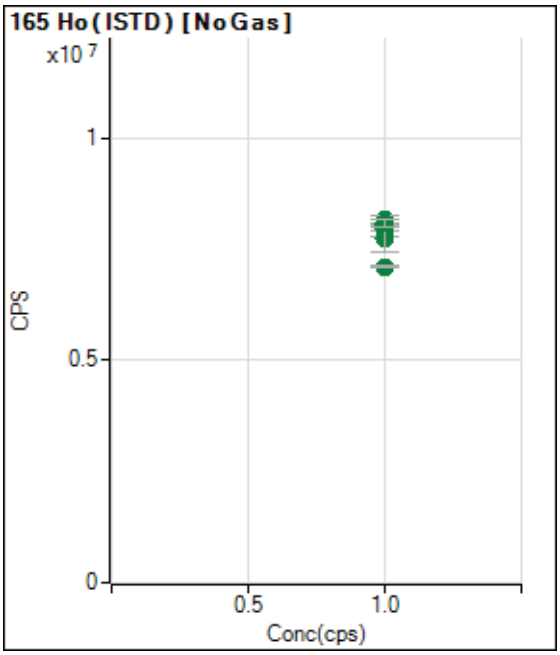


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		8182734.88		A	1.8
2		1.000		8311807.79		A	3.7
3		1.000		8283823.63		A	0.9
4		1.000		8284161.96		A	1.2
5		1.000		8362826.61		A	1.0
6		1.000		8108271.06		A	7.7
7		1.000		8185321.89		A	1.6
8		1.000		7304827.39		A	3.8

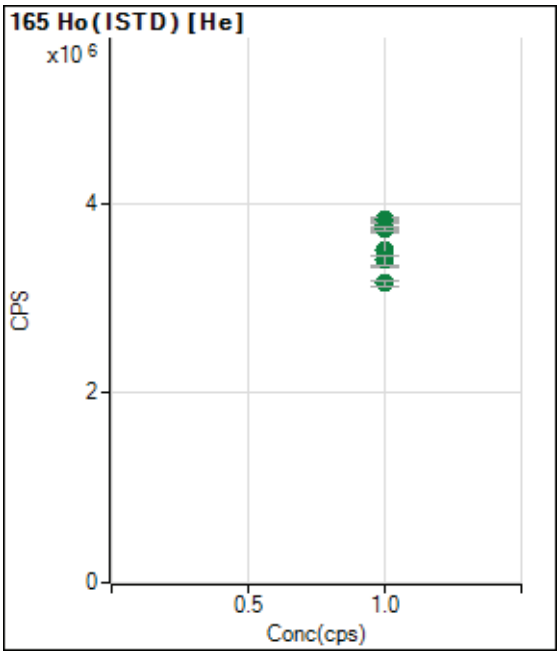


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3704689.39		A	1.6
2		1.000		3768942.58		A	0.6
3		1.000		3694135.67		A	0.9
4		1.000		3632564.98		A	0.9
5		1.000		3436727.52		A	10.2
6		1.000		3587259.94		A	1.0
7		1.000		3291334.05		A	2.3
8		1.000		3068751.38		A	0.6

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

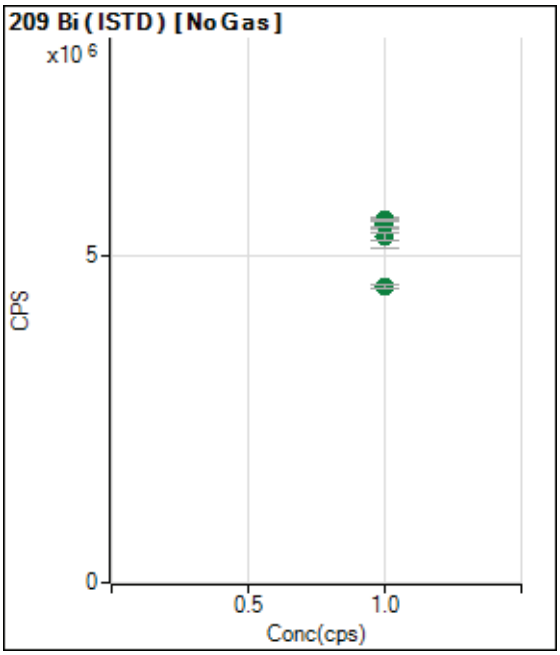


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		7935436.46		A	3.6
2		1.000		8156572.23		A	3.0
3		1.000		7984484.64		A	1.8
4		1.000		8001294.36		A	0.2
5		1.000		8036463.03		A	1.2
6		1.000		7721747.22		A	7.6
7		1.000		8102803.05		A	2.1
8		1.000		7110994.26		A	0.3

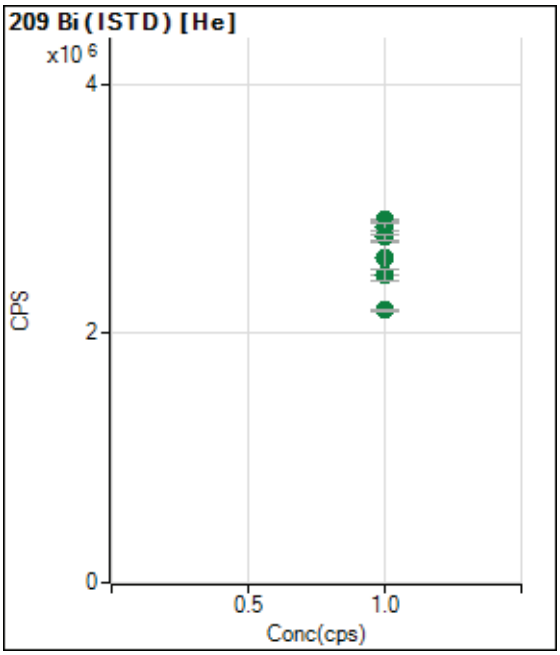


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3775830.81		A	2.8
2		1.000		3822182.20		A	1.2
3		1.000		3793896.02		A	0.5
4		1.000		3764827.90		A	1.1
5		1.000		3509217.73		A	10.1
6		1.000		3729990.36		A	0.9
7		1.000		3399964.36		A	2.9
8		1.000		3150905.47		A	1.5

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		5471201.00		A	1.9
2		1.000		5458444.85		A	2.3
3		1.000		5503371.38		A	2.8
4		1.000		5480888.53		A	1.5
5		1.000		5536773.11		A	0.7
6		1.000		5268907.73		A	6.4
7		1.000		5295644.85		A	2.2
8		1.000		4525906.32		A	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2902350.65		A	0.5
2		1.000		2908783.15		A	0.8
3		1.000		2887048.08		A	0.3
4		1.000		2847395.31		A	2.0
5		1.000		2602059.47		A	10.2
6		1.000		2768983.46		A	1.4
7		1.000		2462349.72		A	3.5
8		1.000		2186286.76		A	0.8

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8
ClientSampleId :TUNE076

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8071423-MS.b
Acq. Date-Time	2023-07-14 13:05:28
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7814	78144.49			0.517	5.000
24		313870	3138703.03			0.559	5.000
25		41387	413870.57			0.269	5.000
26		48481	484811.78			0.646	5.000
59		58202	582017.72			0.608	5.000
113		6496	64958.23			0.869	5.000
115		83208	832076.10			1.577	5.000
206		21333	213334.85			0.599	5.000
207		19020	190203.84			0.995	5.000
208		45419	454187.49			0.845	5.000
220		0	2.30			62.630	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

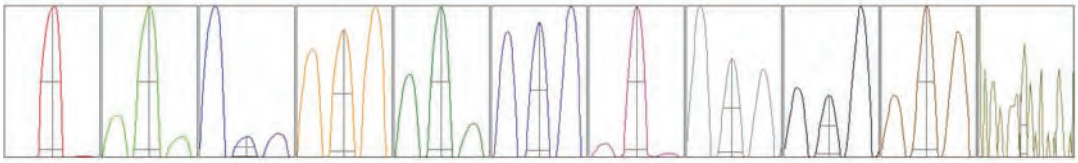
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7861	7772	7852	7784	7803
24	314209	310829	315360	314422	314532
25	41468	41512	41264	41410	41280
26	49000	48179	48317	48499	48411
59	58804	58211	58070	57908	58015
113	6568	6513	6478	6413	6507
115	84264	83355	84412	81166	82841
206	21470	21347	21428	21273	21149
207	19239	19120	19082	18761	18900
208	45713	45723	45659	45022	44977

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13422.67	9.05	8.90 - 9.10	
24	536212.14	24.00	23.90 - 24.10	
25	70803.99	25.00	24.90 - 25.10	
26	83778.92	26.00	25.90 - 26.10	
59	107431.45	59.00	58.90 - 59.10	
113	12768.05	113.05	112.90 - 113.10	
115	162458.36	115.05	114.90 - 115.10	
206	41293.32	205.95	205.90 - 206.10	
207	36585.39	206.95	206.90 - 207.10	
208	89242.56	207.95	207.90 - 208.10	
220	0.25	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.740	0.900	
24	0.62	0.820	0.900	
25	0.62	0.784	0.900	
26	0.61	0.787	0.900	
59	0.56	0.778	0.900	
113	0.53	0.735	0.900	
115	0.53	0.732	0.900	
206	0.53	0.780	0.900	
207	0.53	0.781	0.900	
208	0.53	0.801	0.900	
220	0.21	0.246		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.3 V	Deflect	14.6 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	130 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.7 mm	Torch V	-1.0 mm

EM

Discriminator	4.4 mV	Analog HV	2321 V	Pulse HV	1643 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14013	140130.58			0.336	
89		32702	327019.90			0.841	
205		18159	181588.94			0.539	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14003	14045	14046	13935	14037
89	32766	32276	33037	32763	32668
205	18224	18026	18227	18082	18235

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.3 V	Deflect	4.0 V

US EPA Tune Check Report

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8
ClientSampleId :TUNE076

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.7 mm	Torch V	-1.0 mm

EM

Discriminator	4.4 mV	Analog HV	2321 V	Pulse HV	1643 V

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.44	0.09	0.35	0.00	N/A	ppb
Antimony	121-1	0.01	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.03	0.00	0.03	0.00	N/A	ppb
Barium	135-1	0.00	-0.01	0.02	0.00	N/A	ppb
Barium	137-1	-0.02	0.02	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.01	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.00	-0.04	0.04	0.00	N/A	ppb
Cadmium	106-1	1.52	-0.89	-0.63	0.00	N/A	ppb
Cadmium	111-1	0.12	-0.07	-0.05	0.00	N/A	ppb
Calcium	43-1	0.58	0.11	-0.69	0.00	N/A	ppb
Calcium	44-1	5.25	-1.22	-4.03	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.02	-0.02	0.00	N/A	ppb
Cobalt	59-2	-0.01	0.00	0.01	0.00	N/A	ppb
Copper	63-2	-0.03	0.00	0.02	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	-0.12	-0.50	0.62	0.00	N/A	ppb
Iron	56-2	-0.18	-0.10	0.28	0.00	N/A	ppb
Iron	57-2	-0.95	-0.21	1.16	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.00	-0.01	0.00	N/A	ppb
Lead	208-1	0.01	0.00	-0.01	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.52	-0.37	0.89	0.00	N/A	ppb
Manganese	55-2	-0.03	0.00	0.03	0.00	N/A	ppb
Molybdenum	94-1	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.01	-0.01	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.01	0.03	0.00	N/A	ppb
Phosphorus	31-2	-2.06	-11.73	13.86	0.02	58822.83	ppb
Potassium	39-2	-2.55	-1.14	3.69	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.23	-0.07	-0.16	0.00	N/A	ppb
Selenium	77-2	-0.01	-1.05	1.06	0.00	N/A	ppb
Selenium	78-2	0.22	0.12	-0.34	0.00	N/A	ppb
Silicon	28-1	1.82	-0.91	-0.91	0.00	N/A	ppb
Silver	107-1	-0.01	0.00	0.01	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-1.14	0.55	0.60	0.00	N/A	ppb
Strontium	86-1	0.01	0.03	-0.03	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	325.87	-304.98	-161.12	-46.74		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.00	-0.01	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	-0.02	0.02	0.00	N/A	ppb
Titanium	47-1	0.06	-0.04	-0.02	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	0.01	0.01	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.09	-0.13	0.04	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	-0.01	-0.01	0.02	0.00	N/A	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:49:22	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.97	19.53	19.02	19.84	5.09	ppb
Antimony	121-1	1.83	1.84	1.86	1.84	0.68	ppb
Arsenic	75-2	0.85	0.88	1.06	0.93	12.10	ppb
Barium	135-1	9.32	9.60	9.14	9.35	2.47	ppb
Barium	137-1	9.91	9.42	8.81	9.38	5.86	ppb
Beryllium	9-1	1.05	1.07	1.07	1.06	0.98	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.14	0.91	1.05	1.03	11.17	ppb
Cadmium	106-1	2.04	2.74	0.04	1.61	87.07	ppb
Cadmium	111-1	1.22	1.22	0.94	1.13	14.38	ppb
Calcium	43-1	486.07	439.53	444.22	456.61	5.61	ppb
Calcium	44-1	487.41	439.09	439.80	455.43	6.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.81	1.75	1.97	1.84	6.25	ppb
Cobalt	59-2	0.85	0.96	0.89	0.90	6.04	ppb
Copper	63-2	1.85	1.84	1.86	1.85	0.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				102		%
Iron	54-2	49.96	49.87	55.03	51.62	5.72	ppb
Iron	56-2	48.47	48.14	47.89	48.17	0.60	ppb
Iron	57-2	50.91	49.51	50.35	50.26	1.41	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.86	0.88	0.89	4.33	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:49:22	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.90	0.95	0.86	0.90	5.14	ppb
Lead	208-1	0.92	0.87	0.88	0.89	3.18	ppb
Lithium	6-1				98		%
Magnesium	24-2	465.47	471.50	466.07	467.68	0.71	ppb
Manganese	55-2	0.81	0.90	1.00	0.90	10.45	ppb
Molybdenum	94-1	5.77	5.29	5.17	5.41	5.84	ppb
Molybdenum	95-1	4.83	4.51	4.95	4.76	4.75	ppb
Molybdenum	96-1	5.25	4.63	4.97	4.95	6.27	ppb
Molybdenum	97-1	5.07	4.57	4.24	4.63	9.07	ppb
Molybdenum	98-1	4.91	4.42	4.57	4.63	5.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.04	1.04	0.98	1.02	3.36	ppb
Phosphorus	31-2	-0.82	2.27	-1.52	-0.02		ppb
Potassium	39-2	459.48	459.79	476.76	465.34	2.13	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	4.90	4.33	4.68	4.64	6.19	ppb
Selenium	77-2	5.13	4.04	8.32	5.83	38.13	ppb
Selenium	78-2	3.77	5.01	4.20	4.33	14.55	ppb
Silicon	28-1	14.23	7.52	6.91	9.55	42.47	ppb
Silver	107-1	1.03	0.95	0.95	0.97	4.60	ppb
Silver	109-1	0.98	0.93	1.01	0.97	3.99	ppb
Sodium	23-2	474.09	476.05	464.88	471.67	1.26	ppb
Strontium	86-1	1.11	0.95	0.78	0.95	17.16	ppb
Strontium	88-1	1.02	0.91	0.94	0.96	5.70	ppb
Sulfur	34-1	728.31	-360.42	-227.66	46.74	1270.71	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.90	0.87	0.82	0.87	4.68	ppb
Thallium	205-1	0.92	0.85	0.86	0.88	4.59	ppb
Tin	118-1	4.69	4.74	4.38	4.60	4.27	ppb
Titanium	47-1	4.74	4.92	4.87	4.84	1.96	ppb
Uranium	238-1	0.93	0.86	0.92	0.90	3.80	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:49:22	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.52	4.52	4.72	4.58	2.50	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				102		%
Zinc	66-2	2.60	2.30	2.41	2.44	6.27	ppb
Zirconium	90-1	0.94	0.83	0.89	0.89	6.44	ppb
Zirconium	91-1	0.85	0.93	0.90	0.89	4.79	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
5 lient Sample ID :	S03	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:92:26	Data. ile Name :	0065 ALSC

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARVC5 oncC	5 oncUSD	F nits
Aluminium	27-2	67.10	1010.63	77.79	89.16	2.30	ppb
Antimony	121-1	91.14	48.01	90.78	90.30	2.2	ppb
Arsenic	79-2	90.77	48.70	48.63	4.37	2.46	ppb
Barium	139-1	290.13	24.88	246.81	248.14	0.74	ppb
Barium	137-1	291.12	294.16	292.71	292.13	0.76	ppb
Beryllium	1	91.18	4.01	90.77	90.32	2.2	ppb
Bismuth	20.1				101		%
Bismuth	20.2						%
Bromine	81-1						cps
5 admium	108-1	97.63	92.91	96.33	99.4	4.7	ppb
5 admium	106-1	93.18	91.37	91.32	91.16	2.04	ppb
5 admium	111-1	93.44	92.77	92.83	93.01	0.70	ppb
5 alcium	43-1	9807.91	998.31	9967.98	9694.30	2.39	ppb
5 alcium	44-1	9811.84	9900.97	9673.90	9661.17	2.79	ppb
5 arbon	12-1						cps
5 arbon	12-2						cps
5 hlorine	39-1						cps
5 hlorine	39-2						cps
5 hromium	92-2	48.08	48.93	46.11	47.97	2.71	ppb
5 obalt	9.2	48.39	48.99	48.39	48.42	0.24	ppb
5 opper	63-2	487.87	4.68	486.16	4.09.97	1.12	ppb
Dysprosium	196-1						cps
Dysprosium	196-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	169-1				101		%
Holmium	169-2				100		%
Indium	119-1				102		%
Indium	119-2				100		%
Iron	94-2	2967.49	2602.87	2971.16	2980.76	0.79	ppb
Iron	96-2	2978.17	26.8.47	2634.11	2636.12	2.28	ppb
Iron	97-2	2912.08	2998.48	2480.4	2917.02	1.96	ppb
Krypton	83-1						cps
Lead	206-1	237.04	226.71	228.22	230.69	2.42	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
5 lient Sample ID :	S03	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:92:26	Data. ile Name :	0065 ALSCl

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARvC5 oncC	5 oncUSD	F nits
Lead	207-1	240049	231066	233030	239013	1001M	ppb
Lead	208-1	290072	241008	243073	249018	2003	ppb
Lithium	6-1				101		%
g avnesium	24-2	9060006	9398078	9119036	9178023	3007	ppb
g anvanese	99-2	4680002	4840008	4660001M	4730003	2004	ppb
g olybdenum	M4-1	909037	4MM043	90M004	9040011	1004	ppb
g olybdenum	M9-1	902014	4M7027	9140066	9046M	1078	ppb
g olybdenum	M6-1	936020	9204M	9260M	9270036	1090	ppb
g olybdenum	M7-1	918002	90M092	9090039	9110026	1036	ppb
g olybdenum	M8-1	928016	9210037	9160041	9220019	1013	ppb
Neodymium	190-1						cps
Neodymium	190-2						cps
Nickel	60-2	90042	91036	90030	90036	0008	ppb
Phosphorus	31-2	1037071	M48009M	M7801	M8810	4060	ppb
Potassium	3M-2	2484009	2997044	2909066	2919071	1090	ppb
Uhodium	103-1				MM		%
Uhodium	103-2				100		%
Scandium	49-1				100		%
Scandium	49-2				MM		%
Selenium	82-1	92097	92097	93009	92073	0093	ppb
Selenium	77-2	47032	91041	41030	46068	1003M	ppb
Selenium	78-2	96013	91022	44079	90070	1126	ppb
Silicon	28-1	73031	77017	83012	78003	6009	ppb
SilRer	107-1	90002	90023	9006M	90062	006M	ppb
SilRer	10M-1	91091	91070	92018	91030	0067	ppb
Sodium	23-2	9089030	9219097	9197073	9193003	1026	ppb
Strontium	86-1	1276008	12M8007	12M1027	1288047	0037	ppb
Strontium	88-1	1297004	1272036	1288007	1272006	1018	ppb
Sulfur	34-1	1920092	884078	M93071	111M067	3106	ppb
Terbium	19M-1				101		%
Terbium	19M-2				100		%
Thallium	203-1	46066	44074	46004	46001	2060	ppb
Thallium	209-1	48076	47017	47000	47004	1067	ppb
Tin	118-1	90039	90010	4M039	90010	0090	ppb
Titanium	47-1	916091	4M8097	9006038	9036069	2033	ppb
F ranium	238-1	47036	46034	46002	47004	1064	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
5 lient Sample ID :	S03	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:92:26	Data. ile Name :	0065 ALSCd

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARvC	5 oncC	5 oncUSD	F nits
Vanadium	91-2	48C38	4M39	48C16	48C16	1C73		ppb
Ytterbium	172-1							cps
Ytterbium	172-2							cps
Ytterbium	176-1							cps
Ytterbium	176-2							cps
Yttrium	8M-1				101			%
Yttrium	8M-2				100			%
Zinc	66-2	4M3C66	904C34	48MC2M	4M9C13	1C62		ppb
Zirconium	M0-1	90C02	90C97	4MC63	90C07	0C14		ppb
Zirconium	M1-1	4MC67	90C96	4MC64	4MC16	1C04		ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
5 lient Sample ID :	S04	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:99:24	Data. ile Name :	0075 ALSCd

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARvC	5 oncC	5 oncUSD	F nits
Aluminium	27-2	2441030	2428097	2493024		2441009	0091	ppb
Antimony	121-1	120078	122099	126020		123001	2024	ppb
Arsenic	79-2	118013	120010	122016		120066	1039	ppb
Barium	139-1	606039	602074	623030		611019	1032	ppb
Barium	137-1	629099	620017	636017		627030	1030	ppb
Beryllium	9-1	126014	127014	124038		126062	1029	ppb
Bismuth	209-1					100		%
Bismuth	209-2					98		%
Bromine	81-1							cps
5 admium	108-1	131007	123023	134001		129090	4036	ppb
5 admium	106-1	119089	128019	124091		124044	3066	ppb
5 admium	111-1	128030	128031	131027		129046	1022	ppb
5 alcium	43-1	140189	137680	139110		138999	0010	ppb
5 alcium	44-1	136260	136310	136990		136910	0028	ppb
5 arbon	12-1							cps
5 arbon	12-2							cps
5 hlorine	39-1							cps
5 hlorine	39-2							cps
5 hromium	92-2	117062	119073	117014		117010	1002	ppb
5 obalt	9-2	118097	118089	118036		118099	0021	ppb
5 opper	63-2	129608	124248	129424		129120	0061	ppb
Dysprosium	196-1							cps
Dysprosium	196-2							cps
Erbium	164-1							cps
Erbium	164-2							cps
Gadolinium	160-1							cps
Gadolinium	160-2							cps
Holmium	169-1					101		%
Holmium	169-2					100		%
Indium	119-1					99		%
Indium	119-2					98		%
Iron	94-2	642242	627401	648107		639207	1067	ppb
Iron	96-2	646207	639018	699007		649438	1096	ppb
Iron	97-2	629843	619948	629996		622449	0016	ppb
Krypton	83-1							cps
Lead	206-1	617026	627096	611034		618072	1033	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
5 lient Sample ID :	S04	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:99:24	Data. ile Name :	0075 ALSCl

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARvC5 oncC	5 oncUSD	F nits
Lead	207-1	61M90	6370 73	6220 M0	6260 71	1 09 9	ppb
Lead	208-1	6170 73	62M2 27	6220 72	6230 24	00 M8	ppb
Lithium	6-1				M8		%
g avnesium	24-2	13191 86	12799 98	13383 07	130M6 84	2 42	ppb
g anvanese	99-2	1172 19	113M2 20	1168 69	1160 00	1 96	ppb
g olybdenum	M4-1	1206 16	1270 00	1263 89	1246 67	2 82	ppb
g olybdenum	M9-1	1187 96	1267 03	1227 31	1227 30	3 24	ppb
g olybdenum	M6-1	11M9 0M	1293 22	1263 66	1237 62	20 M4	ppb
g olybdenum	M7-1	1223 12	1279 39	1299 46	1291 31	2 11	ppb
g olybdenum	M8-1	1211 74	1276 33	129M 78	124M 28	2 6M	ppb
Neodymium	190-1						cps
Neodymium	190-2						cps
Nickel	60-2	122 98	123 04	126 13	123 M2	1 96	ppb
Phosphorus	31-2	2466 0M	2409 72	2441 49	2438 09	1 26	ppb
Potassium	3M-2	6198 10	6178 00	6232 27	618M 46	0 62	ppb
Uhodium	103-1				100		%
Uhodium	103-2				MM		%
Scandium	49-1				100		%
Scandium	49-2				M7		%
Selenium	82-1	121 0M	130 08	128 89	126 67	3 89	ppb
Selenium	77-2	126 16	104 10	128 27	11M 91	11 20	ppb
Selenium	78-2	122 30	128 3M	121 90	124 06	3 04	ppb
Silicon	28-1	179 M8	1M1 M2	208 2M	1M2 06	8 41	ppb
SilRer	107-1	123 82	123 14	126 46	124 48	1 41	ppb
SilRer	10M-1	124 62	129 68	128 62	126 31	1 64	ppb
Sodium	23-2	12636 29	12448 96	1302M 69	12704 82	2 33	ppb
Strontium	86-1	3076 32	3218 98	30M8 19	312M 39	2 48	ppb
Strontium	88-1	3030 6M	31M6 06	30M7 96	3108 10	2 68	ppb
Sulfur	34-1	2377 87	1M82 44	219M 31	2196 94	10 33	ppb
Terbium	19M-1				101		%
Terbium	19M-2				M8		%
Thallium	203-1	116 41	116 M7	114 4M	119 M9	1 12	ppb
Thallium	209-1	116 12	126 79	122 17	121 68	4 38	ppb
Tin	118-1	121 4M	123 81	126 23	123 84	10 M2	ppb
Titanium	47-1	1239 11	1221 84	123M 01	1231 0M	0 73	ppb
F ranium	238-1	120 67	126 80	124 17	123 88	2 48	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
5 lient Sample ID :	S04	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:99:24	Data. ile Name :	0075 ALSC

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARVC	5 oncC	5 oncUSD	F nits
Vanadium	91-2	121.22	121.69	121.00	121.2M		0.27	ppb
Ytterbium	172-1							cps
Ytterbium	172-2							cps
Ytterbium	176-1							cps
Ytterbium	176-2							cps
Yttrium	8M-1				102			%
Yttrium	8M-2				MM			%
Zinc	66-2	1202.22	11M.94	1216.66	1209.47		0.83	ppb
Zirconium	M0-1	117.70	122.81	122.89	121.12		2.49	ppb
Zirconium	M1-1	113.26	122.19	116.74	117.38		3.81	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	Operstor:9	aswl sP
Lsb:SsmpRe:ID:9	S03	Inwtrumnet:Nsme:9	8J
5 Rent:SsmpRe:ID:9	S03	DiRtion:. sctor:9	1
Dste:&:Time:Acquired:9	202-70 714:1-93J923	Dsts. iRe:Nsme:9	00J5ALSGl

8srsmeter	g sww	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncUSD	Fnitw
ARminium	2 72	3M33G4J	4JM2G2J	4J4MG62	32-2G46	11GM	ppb
Antimony	12171	241G32	24-G3	246G30	24-GJ6	1G0-	ppb
Arwenic	372	-03G31	24MG1	244G31	266G40	12C3	ppb
Bsrium	1-371	11M3G2M	120JC4	1222G01	120JG6J	1G11	ppb
Bsrium	1- 71	12 G42	126 C-	12 MG1M	12 3G04	0G31	ppb
BeryRium	M71	2420M3	23-G00	24JG60	24JG1J	2G0-	ppb
Biwmuth	20M71				101		%
Biwmuth	20M72				M0		%
Bromine	J171						cpw
5sdmium	10J71	236G00	23MG3M	236CM	23 G46	0C-	ppb
5sdmium	10671	23MGMJ	232G34	232C	233G10	1G66	ppb
5sdmium	11171	23 GM6	23 G61	23MG1-	23JG2-	0G1	ppb
5sRium	4-71	2 6M2G66	2 616G02	2J200G03	2 J-6G24	1G14	ppb
5sRium	4471	2 2JJG6	26MJ G3-	2 6J2G41	2 -1MG34	1G2J	ppb
5srbon	1271						cpw
5srbon	1272						cpw
5hRrine	-371						cpw
5hRrine	-372						cpw
5hromium	3272	2M1G02	2-6G3	2-6G-	234G36	12G40	ppb
5obsR	3M72	2M2GJ6	2-MG13	2-MG4M	23 G1	12G02	ppb
5opper	6-72	-06-GJ2	2314GJ4	2466GJJ	26J1GJ3	12G	ppb
Dywprowium	13671						cpw
Dywprowium	13672						cpw
Erbium	16471						cpw
Erbium	16472						cpw
GsdoRnium	16071						cpw
GsdoRnium	16072						cpw
HoRmium	16371				101		%
HoRmium	16372				M4		%
Indium	11371				101		%
Indium	11372				JM		%
Iron	3472	13 MMG23	1-011G04	12613G3M	1-J0JG6-	12G3	ppb
Iron	3672	13J-JG40	1-1MJG0M	1-1100G4	1404MG14	11G0-	ppb
Iron	3 72	13412GJ2	12621G6	1234-G1M	1-326G13	12G0J	ppb
Krypton	J-71						cpw
Lesd	20671	120JGJJ	12-0G10	1240G3J	1226G32	1G2	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	Operstor:9	aswl sP
Lsb:SsmpRe:ID:9	S03	Inwtrumnet:Nsme:9	8J
5 Rent:SsmpRe:ID:9	S03	DiRtion:. sctor:9	1
Dste:&:Time:Acquired:9	202-70 714:1-93J923	Dsts. iRe:Nsme:9	00J5ALSGl

8srsmeter	g sww	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncUSD	Fnitw
Lesd	20 71	1203G0	12-2CM	123-C0	12-0GJ	1C3	ppb
Lesd	20J71	120MC4	12-0GJ	124JC22	122MC32	1G36	ppb
Lithium	671				M		%
g svnewium	2472	-1J06G6J	2624-C2	26442C4M	2J164G6	11C21	ppb
g snvsnewe	3372	-0-0C0-	243-G6	231 C20	2666CM	11CJ3	ppb
g oRybdenum	M471	24M1G6J	2342C04	231 C3	231 C16	1C00	ppb
g oRybdenum	M371	243-G6J	2344CJ	23- G6	2311C0	2C01	ppb
g oRybdenum	M671	24M1CJ1	24MJC04	2306C46	24MJC	0C2M	ppb
g oRybdenum	M 71	23-3C12	23-3G34	236MC-	2346CJ0	0CJ	ppb
g oRybdenum	MJ71	232JCM	231JG66	233MCJ	23-3G31	0CJ-	ppb
Neodymium	13071						cpw
Neodymium	13072						cpw
NickeP	6072	-02CM0	232G62	24JG1	26 CM3	11G-	ppb
8howphoruw	-172	36-34M	4 J1C13	43MJG6	3003C00	11C06	ppb
8otswwium	-M72	13131C1	12401G63	122M4CJ	1-2J2G0	12C1M	ppb
Uhodium	10-71				MM		%
Uhodium	10-72				M0		%
Scsndium	4371				MJ		%
Scsndium	4372				JM		%
SeRenium	J271	23JCJ6	23JC4	236C04	23 C4	0G64	ppb
SeRenium	72	-1MC4	242C10	26-C06	2 4CJJ	14G36	ppb
SeRenium	J72	-06C	23JC44	24 C40	2 0CJ	11G66	ppb
SiRcon	2J71	2J0C14	-1-G31	-42G1	-11CM	MCM	ppb
SiRRer	10 71	2360M1	23 G	23JG6M	23 G66	0G6	ppb
SiRRer	10M71	236C-	2640CM	260C3	260G32	1C41	ppb
Sodium	2-72	-110 C23	2614-G3-	23-J-G	2 344C2	11C2M	ppb
Strontium	J671	6216CJ3	6261C24	61 MC14	621MCJ	0G66	ppb
Strontium	JJ71	622 G0	62 -C0	6-20G33	62 -CJ3	0C4	ppb
SuRfur	-471	4 02G3M	4 44C4	31 JC4	4J 3C4M	3C41	ppb
Terbium	13M71				102		%
Terbium	13M72				M4		%
ThsRium	20-71	226C2-	22MCJ	2-2CJ2	22MC41	1C44	ppb
ThsRium	2037 1	2-MCM	24 C0	24 C2	244CJ6	1CJ0	ppb
Tin	11J71	242CJ6	244G32	246G1	244G36	0C0	ppb
Titsnium	4 71	2332CJ-	24M6G	23J0C41	234-C21	1G6J	ppb
Frsnium	2-J71	246G61	240G	24 CJ6	244CM3	1G64	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	Operstor:9	aswl sP
Lsb:SsmpRe:ID:9	S03	Inwtrumnet:Nsme:9	8J
5 Rent:SsmpRe:ID:9	S03	DiRtion:. sctor:9	1
Dste:&:Time:Acquired:9	202- 70 714:1- 9 3J923	Dsts. iRe:Nsme:9	00J5 ALSGl

8srsmeter	g sww	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncUSD	Fnitw
Vsnsdium	3172	2MM6-	24- GJ2	24- G46	262G0	12G2	ppb
Ytterbium	1 271						cpw
Ytterbium	1 272						cpw
Ytterbium	1 671						cpw
Ytterbium	1 672						cpw
Yttrium	JM71				100		%
Yttrium	JM72				JM		%
Zinc	6672	2M- JG4-	244MG4	2402G26	23M6C2	11G4-	ppb
Zirconium	M071	23- GJM	2626GJ	23- G1-	236G3	2G0	ppb
Zirconium	M171	2- JG0M	2440G6	2446G0	242GJ4	1GJ	ppb

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S06	poaD8Nu obD8 Ju b :	I P
5 wTboDSJu r wo pl :	S06	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2023-07-14 14:01:24	I JDJ. Two 8 Ju b :	00n5 i LSGq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr 3	i RvC5 CoAC	5 CoAUSI	FoTa
i wNu TbTNu	27-2	n743C76	nn76C24	n6P3CCP	nP01CC2	1CMP	r r m
i oDDu Coy	121-1	M0MC31	4P3Cc7	M6MC60	M1PC2n	PC17	r r m
i eeaboTA	7M-2	4nMC76	4P4C11	4P7C7P	4PnC21	1C22	r r m
BJeTNu	13M-1	2M6PC17	2420C1P	2PP3C4M	2623Cc3	nCC2	r r m
BJeTNu	137-1	24PMCP2	23n0CP3	2PM7C7n	2M7PC1M	nCM7	r r m
Bbeywi TNu	n-1	4P7C6M	4n3CM6	M40CM8	M07C2M	MC71	r r m
BTau NDn	20n-1				n6		%
BTau NDn	20n-2				nM		%
BeOu Tbb	P1-1						Ara
5 Jqu TNu	10P-1	M0nCC3	4PnCMh	M67C66	M22CCn	7C7P	r r m
5 Jqu TNu	106-1	4n7CCn	4n3CP0	M7MCPP	M22C2M	PCc0	r r m
5 Jqu TNu	111-1	M02CM0	4P6CC4	M74CM1	M21CC1	nCC3	r r m
5 JvATNu	43-1	MM1P2C2P	M4363CM0	6417PCM4	M7n0PC11	nC40	r r m
5 JvATNu	44-1	M8n02CP4	M840PC46	62443C63	M6MP4CcP	PCcP	r r m
5 JemOo	12-1						Ara
5 JemOo	12-2						Ara
5 hwOeTbb	3M-1						Ara
5 hwOeTbb	3M-2						Ara
5 heOu TNu	M2-2	46MCc0	47MC6n	4MhC72	467C10	1C72	r r m
5 OmJwD	Mh-2	46PCM4	47nCP7	46nCM1	472C64	1C33	r r m
5 Orr be	63-2	4n42C22	4n74C23	4P22C76	4n13CC7	1C62	r r m
I yar eOaTNu	1M6-1						Ara
I yar eOaTNu	1M6-2						Ara
EemTNu	164-1						Ara
EemTNu	164-2						Ara
GJqOwbTNu	160-1						Ara
GJqOwbTNu	160-2						Ara
HOw TNu	16M-1				n7		%
HOw TNu	16M-2				nn		%
poqTNu	11M-1				nM		%
poqTNu	11M-2				n3		%
peOo	M4-2	26P27CP1	27n06C6	26P42CP6	271n2C44	2C27	r r m
peOo	M6-2	2MP62C67	262P2C14	2M6P6CcM	2Mh43Cc2	1C1P	r r m
peOo	M7-2	24P07C7P	2M366C76	24Mh0C21	24n21CMP	1C61	r r m
Keyr DDo	P3-1						Ara
LbJq	206-1	23P3C70	23n2C1P	27nPC1M	2M24C6P	nC3P	r r m

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S06	poaD8Nu obD8 Ju b :	I P
5 vTboDSJu r wo pl :	S06	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2023-07-14 14:01:24	I JDJ. Tw 8 Ju b :	00n5 i LSGq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr 3	i RvC5 CoAC	5 CoAUSI	FoTa
LbJq	207-1	242MC74	2417CP6	27M4CP1	2M32CP0	7CMh	r r m
LbJq	20P-1	2416G64	2402C44	27n4C10	2M37C73	PC7M	r r m
LTDhTNu	6-1				n2		%
g JvobaTNu	24-2	M1P73C77	M32nPC1M	M1612CP6	M2261CMh	1C74	r r m
g JovJobab	MM-2	4n36C4P	4nMMC2P	4PP4CCM	4n2MC27	0C7M	r r m
g OymqboNu	n4-1	4nnPC10	4nM7CaM	M4P6C7M	M147G60	MC72	r r m
g OymqboNu	nM-1	4nMDC2n	4n74CPn	M421C2M	M11MC4P	MC1P	r r m
g OymqboNu	n6-1	4PnMG6M	MDM3CPP	M611CPP	M1P7C14	7C2M	r r m
g OymqboNu	n7-1	4P47CC0	4n73CC2	M603C73	M141C2M	7CPn	r r m
g OymqboNu	nP-1	4P13G61	MD42C13	MM76C27	M144CC1	7G61	r r m
8 bOqyu TNu	1MD-1						Ara
8 bOqyu TNu	1MD-2						Ara
8 TAkbw	60-2	4PnCM3	MD0G62	4n1C73	4n3Ca6	1C1n	r r m
I hOarhOaNa	31-2	n471C3M	nP43CPP	nn33CP6	n74nC70	2CM2	r r m
I CDJaaTNu	3n-2	2M2P7CM4	26234CPn	2M240C7M	2MMP7C73	2C1n	r r m
UhOqTNu	103-1				n4		%
UhOqTNu	103-2				n3		%
SAJoqTNu	4M-1				n3		%
SAJoqTNu	4M-2				n2		%
SbwboTNu	P2-1	4n7C46	MD1C12	M70CC4	M22CP7	7CP2	r r m
SbwboTNu	77-2	4M4CCn	4nPCP0	4n2CP1	4P1Ca0	MCC4	r r m
SbwboTNu	7P-2	4PnCM1	4nPCP0	476C41	4PPC24	2C30	r r m
STWACo	2P-1	Mh1Ca6	6M1C41	7nnCP2	6P1CC7	1MC72	r r m
STWbe	107-1	MD0CMM	4n4CCM	MP1CMD	M2MC36	nC27	r r m
STWbe	10n-1	MDMCa2	47nCaP	M77CC7	M20Can	nG6M	r r m
SOqTNu	23-2	MD0MPC4M	M1P63CP7	4n72PG66	MDMMDC33	2C27	r r m
SbaOoDTNu	P6-1	12303C26	1247PC7M	14113CC2	12n6MCC1	7C70	r r m
SbaOoDTNu	PP-1	1227PC37	12203CC3	13n41C42	12P07G61	7G67	r r m
SNvNe	34-1	nP27C2n	Pnn7C24	12nMMC4M	10Mh3C32	1nC70	r r m
&bemTNu	1Mh-1				nn		%
&bemTNu	1Mh-2				n7		%
&hJwwTNu	203-1	4P7Ca3	4P7C74	M6PC16	M14G61	nCC1	r r m
&hJwwTNu	20M-1	477CM6	47nCa6	MMMC36	MD4C2n	PC77	r r m
&Tb	11P-1	MD0CP0	47nC76	M6MCC4	M1MC20	PG62	r r m
&TDJoTNu	47-1	4nPMC33	4n17C77	M610C40	M171C17	7C3P	r r m
FeJoTNu	23P-1	4P0CCn	474C72	MM6C22	MD3G6P	nCCM	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S06	poaDNu obD8 Ju b :	I P
5 wTboDSJu r wo pl :	S06	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2023-07-14 14:01:24	I JDJ. Two 8 Ju b :	00n5 i LSGq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr 3	i RvC5 CoAC	5 CoAUSI	F oTa
VJoJqTNu	M1-2	476C2M	4n2CP6	4PMCP0	4P4Cn7	1C72	r r m
YDDbemTNu	172-1						Ar a
YDDbemTNu	172-2						Ar a
YDDbemTNu	176-1						Ar a
YDDbemTNu	176-2						Ar a
YDDbTNu	Pn-1				n6		%
YDDbTNu	Pn-2				n3		%
ZTbA	66-2	47PPC16	4P41C70	46PMC21	4771C6n	1C67	r r m
ZTbACoTNu	n0-1	4n4C1P	4n3C6M	MMhCn	M1MCn4	7C40	r r m
ZTbACoTNu	n1-1	4P0C2P	471CM4	M41CP4	4n7CPn	7C6n	r r m

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S03	poaD8Nu obD8 Ju b :	I P
n wTboDSJu r wo pl :	S03	I TWDDo CJADDe:	1
I JDDt &Tu b i AcNTEbq :	202-703714 14:04:24	I JDJCTwo 8 Ju b :	010n i LS5q

I JeJu bDDe	v Jaa	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTa
i WNu TbTNu	2372	1gg3M513	20M325M1	1g00g5M1	1gPM2540	-5g3	r r m
i oDu Coy	12171	100M506	g3M5PM	gg65g0	gg2560	15M2	r r m
i eeaboTA	3M72	100-52-	10-250P	g3052g	10015P3	-50g	r r m
BJeTNu	1-M71	M0365P2	43g35MP	4g3650M	4gM051M	25P6	r r m
BJeTNu	1-371	M0665-	4P465M2	4g4g5M4	4gM452-	2522	r r m
Bbeywi TNu	g71	g3351g	10045-3	100P523	gg6561	1530	r r m
BTau NDn	20g71				g3		%
BTau NDn	20g72				PM		%
BeOu Tbb	P171						A r a
n Jqu TNu	10P71	gP-53-	gP65-1	gPP531	gP652M	052M	r r m
n Jqu TNu	10671	10005Og	g3M566	gP65g3	gP35M3	1524	r r m
n Jqu TNu	11171	gg4512	g60520	100M5P3	gP653-	2540	r r m
n JvATNu	4-71	11344g546	116g31514	113Mg150-	113--3521	052P	r r m
n JvATNu	4471	10P244543	10P44g501	10MgP-501	103MMP5P-	1523	r r m
n JemOo	1271						A r a
n JemOo	1272						A r a
n hwOeTbb	-M71						A r a
n hwOeTbb	-M72						A r a
n heOu TNu	M272	102g526	10M353M	g6252-	1016542	45P2	r r m
n OmJwD	Mg72	1024514	103g5gM	g-4522	1012533	3526	r r m
n Orr be	6-72	10141544	10-2654g	gM2350M	gggP5-2	451g	r r m
I yar eOaTNu	1M671						A r a
I yar eOaTNu	1M672						A r a
EemTNu	16471						A r a
EemTNu	16472						A r a
GJqOwbTNu	16071						A r a
GJqOwbTNu	16072						A r a
HOw TNu	16M71				102		%
HOw TNu	16M72				g0		%
poqTNu	11M71				g6		%
poqTNu	11M72				P-		%
peOo	M472	MM-4M56-	MP0M-56-	M1MP0531	M4gg-5-2	M5g1	r r m
peOo	M672	M-232542	MM0Mg52g	4gPM45-4	M232P56P	M502	r r m
peOo	M372	MM-M5P-	M62g-5P6	M1-M-52-	M4-23564	45P2	r r m
Keyr DDo	P-71						A r a
LbJq	20671	M0435gP	4g6650 4	4g315P-	4ggM52P	05g2	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pd :	S03	poaDNu obD8 Ju b :	I P
nvTboDSJu r wo pd :	S03	I TWDDo CJADDe:	1
I JDDt &Tu b i AcNTbq :	202-703714 14:04:24	I JDJCTw 8 Ju b :	010ni LS5q

I JeJu bDDe	v Jaa	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTa
LbJq	20371	M06M542	4P6-533	M0-35g1	4gPg50-	251g	r r m
LbJq	20P71	M04P56g	4g2P5MP	4gP25Pg	4gP6532	1521	r r m
LTDTNu	671				g2		%
v JRobaTNu	2472	103MP2522	10gMP256g	1011115 2-	1060g250M	4513	r r m
v JoRJobab	MM72	100-g53-	1043g5M6	gM0M5-3	1000P522	45P3	r r m
v OymqboNu	g471	gPM151P	gP6153P	100M-52P	gg2250P	151M	r r m
v OymqboNu	gM71	g3g65-P	10012516	10013523	gg415g4	1523	r r m
v OymqboNu	g671	g30M662	100-P54M	gg36561	gg065Pg	153g	r r m
v OymqboNu	g371	g3M6500	100g-5g6	gg005Pg	gg165gM	1531	r r m
v OymqboNu	gP71	g3325g-	100205g-	gg60544	gg1P510	15-0	r r m
8 bOqyu TNu	1M071						A r a
8 bOqyu TNu	1M072						A r a
8 TAkbw	6072	10025gM	1044564	g4P52g	ggP56-	45P4	r r m
I hOar hOaNa	-172	1g3PP5M2	21-MP5g3	1g24g52-	201-2524	M644	r r m
I ODJaaTNu	-g72	M204154-	M2ggM63M	4g-0g536	M144P5gP	-532	r r m
F hOqTNu	10-71				g-		%
F hOqTNu	10-72				P4		%
SAJoqTNu	4M71				g4		%
SAJoqTNu	4M72				P4		%
SbvboTNu	P271	g635Dg	gg35P0	gg-5P1	gP652-	156g	r r m
SbvboTNu	3372	g6-5Dg	103052-	g33532	100-56P	M53g	r r m
SbvboTNu	3P72	100153 4	102P5-0	g32520	100053M	25P0	r r m
STWAOo	2P71	PPP506	P36540	PPP511	PP451g	0536	r r m
STWbe	10371	100-51P	g325M-	gP0560	gPM644	1561	r r m
STWbe	10g71	gg252M	g3M5P1	gg15P0	gP6562	05gM	r r m
SOqTNu	2-72	104g-25g0	10gM02503	gg2g15P3	104M3M561	45Pg	r r m
SDaOoDTNu	P671	24M-2536	2M-Pg526	24-M2523	243MP5Dg	2524	r r m
SDaOoDTNu	PP71	2436251P	2M202526	24M14500	24P2651M	1540	r r m
SNvNe	-471	20046536	1g6365g3	1gMg05M1	1g331542	152-	r r m
&bemTNu	1Mg71				100		%
&bemTNu	1Mg72				Pg		%
&hJwvTNu	20-71	ggM51g	10015MP	1000534	ggg513	05-M	r r m
&hJwvTNu	20M71	10025-2	10115-3	gPM52P	ggg556	15-	r r m
&Tb	11P71	10025-0	gP65P3	gg25M-	gg-5g0	053g	r r m
&TJoTNu	4371	gP6-5P3	gP3-54-	gg3g536	gg0M56P	056M	r r m
. eJoTNu	2-P71	101M5P-	g3g532	100-5Mg	ggg531	15P4	r r m

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S03	poaDNu obD8 Ju b :	I P
nvTboDSJu r wo pl :	S03	I TWDDo CJADDe:	1
I JDDt &Tu b i AcNTbq :	202-703714 14:04:24	I JDJCTw 8 Ju b :	010ni LS5q

I JeJu bDDe	v Jaa	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTa
VJoJqTNu	M172	10065g-	104M5g-	g62501	10045g6	451P	r r m
YDDbemTNu	13271						Ar a
YDDbemTNu	13272						Ar a
YDDbemTNu	13671						Ar a
YDDbemTNu	13672						Ar a
YDDbTNu	Pg71				gP		%
YDDbTNu	Pg72				P6		%
ZTbA	6672	101-P56M	10-6P566	g33g5g-	100gM534	25g4	r r m
ZTbAOoTNu	g071	gg15M2	gg-521	gP35PP	gg05P3	0523	r r m
ZTbAOoTNu	g171	gg254M	10035g-	1011502	100-5P0	05gg	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:8 Nu mbe:9	LB126466	d r beaD:e:9	Jaswal
LamSau r lb:pl :9	S03	posD8Nu obD8 au b:9	P3
n lTboDSau r lb:pl :9	S03	I TNDCo:CaADe:9	1
I aDb:t :&Tu b:i AcNEbq:9	202-70 714:1490 92-	I aDaCTb:8 au b:9	011n i LS5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTs
i lNu TbTNu	2 72	100g M52	M36Mg5gM	10034-5 M	1000-M542	151	r r m
i oDu Coy	12171	0564	0543	05M2	0563	-254-	r r m
i esboTA	g72	05M4	05g	0542	0564	4056M	r r m
BaeTNu	1-g71	45-2	-504	g53g	4540	-15MM	r r m
BaeTNu	1- 71	45 g	g52	652g	g542	1451-	r r m
BbeylITNu	M71	051	0510	056g	05-1	M 513	r r m
BTsu NDn	20M71				3-		%
BTsu NDn	20M72				g		%
BeOu Tbb	3171						A r s
n aqu TNu	10371	15-2	05M1	15-	151M	20503	r r m
n aqu TNu	10671	72506	72526	150	71503		r r m
n aqu TNu	11171	05g0	051g	05Mg	05g-	g544	r r m
n alATNu	4-71	g0 41M5 M	4M424 5M1	43g00 562	4Mggg3544	252	r r m
n alATNu	4471	g04g0353g	4MM6 3514	433343520	4M 6 3540	1561	r r m
n aemOo	1271						A r s
n aemOo	1272						A r s
n hlOeTbb	-g71						A r s
n hlOeTbb	-g72						A r s
n heOu TNu	g272	g540	g54-	g526	g5-	156	r r m
n OmalD	gM72	2562	25-1	252	2540	5M1	r r m
n Or r be	6-72	56	g506	4566	g530	23521	r r m
I ysr eOsTNu	1g671						A r s
I ysr eOsTNu	1g672						A r s
EemTNu	16471						A r s
EemTNu	16472						A r s
GaqOTbTNu	16071						A r s
GaqOTbTNu	16072						A r s
HOlu TNu	16g71				M0		%
HOlu TNu	16g72				3-		%
poqTNu	11g71				36		%
poqTNu	11g72				M		%
peOo	g472	2g0 6M5 2	24-M1g5MM	2g14g1514	243 12523	1563	r r m
peOo	g672	2g106-52-	2441M6533	2g2g6 5 0	24M2 g5M4	15 M	r r m
peOo	g 72	24 4M3526	24M4 65g-	2g02MM6-	24M0M154	05g3	r r m
Keyr DDo	3-71						A r s
Lbaq	20671	-51g	2511	4564	-5-0	-354M	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:8 Nu mbe:9	LB126466	d r beaD:e:9	Jaswal
LamSau r lb:pl :9	S03	posD8Nu obD8 au b:9	P3
n lTboDSau r lb:pl :9	S03	l TNDCo:CaADe:9	1
l aDb:t :&Tu b:i AcNEbq:9	202- 70 714:1490 92-	l aDaCTb:8 au b:9	011n i LS5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTs
Lbaq	20 71	2531	- 563	4530	- 5 6	2654	r r m
Lbaq	20371	2534	254g	45 4	- 5-4	- 65g3	r r m
LTDTNu	671				32		%
v aRobsTNu	2472	4M M5 M	4M 6651-	4MMgMg5 1	4M3- 305g4	0521	r r m
v aoRaobsb	gg72	105 0	3546	506	35 4	2150 4	r r m
v Clymqboﾝu	M471	45-4	2516	3524	45M1	625 2	r r m
v Clymqboﾝu	Mg71	- 5M6	15 M	65M6	452-	615-1	r r m
v Clymqboﾝu	M671	4512	15Mg	56	45g3	6- 50g	r r m
v Clymqboﾝu	M 71	45-0	15 0	5 1	45g	6g5M0	r r m
v Clymqboﾝu	M371	45-g	15 6	501	45-	gM5MM	r r m
8 bOqyu TNu	1g071						Ar s
8 bOqyu TNu	1g072						Ar s
8 TAkbl	6072	g52	45M-	45 6	45MM	g5-1	r r m
PhOsr hOeNs	- 172	7g5g0	7g5 6	1g51-	152M	M-1512	r r m
POaassTNu	- M72	24M1- - 51M	2g0 465M1	243M61512	24M61- 5 4	05-M	r r m
F hOqTNu	10- 71				M		%
F hOqTNu	10- 72				g		%
SAaoqTNu	4g71				34		%
SAaoqTNu	4g72				M		%
SblboTNu	3271	g5M0	g566	6544	6500	6566	r r m
SblboTNu	72	5M-	253	g5-1	g5-	4 50M	r r m
SblboTNu	372	65M1	g516	654M	6513	145 g	r r m
STTAOo	2371	110510	12M54M	1- 45g	1245 2	105-6	r r m
STUbe	10 71	051g	051g	051	051g	3502	r r m
STUbe	10M71	0514	051g	051g	051g	450g	r r m
SOqTNu	2- 72	4MMg6- 50g	4M60M-534	g010- 1506	4M33Mg5MM	05g1	r r m
SDaOoDTNu	3671	1656M	25-2	1M5 3	125M-	2506	r r m
SDaOoDTNu	3371	M5M4	252-	13524	10514	35M6	r r m
SNfNe	- 471	601566	714051	104522	1335g	200543	r r m
&bemTNu	1gM71				3M		%
&bemTNu	1gM72				3-		%
&hallTNu	20- 71	0541	0521	05 1	0544	g 52	r r m
&hallTNu	20g71	05-3	0520	05	054g	6453	r r m
&Tb	11371	0564	054M	05MM	05 1	- g5M3	r r m
&TaoTNu	4 71	15M6	1504	6501	- 500	33516	r r m
. eaoTNu	2- 371	0520	051g	05 2	05-6	3M50M	r r m

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:8 Nu mbe:9	LB126466	d r beaDDe:9	Jaswal
LamSau r lb:pl :9	S03	posDaNu obD8 au b:9	P3
n lTboDSau r lb:pl :9	S03	I TNDDCo:CaADDe:9	1
I aDb:t :&Tu b:i AcNTbq:9	202- 70 714:1490 92-	I aDaCTb:8 au b:9	011n i LS5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTs
VaoaqTNu	g172	05g6	05-6	0520	05-	4M52-	r r m
YDDbemTNu	1 271						Ar s
YDDbemTNu	1 272						Ar s
YDDbemTNu	1 671						Ar s
YDDbemTNu	1 672						Ar s
YDDbTNu	3M71				36		%
YDDbTNu	3M72				31		%
ZTbA	6672	2M5M6	245M4	2g50-	2656 4	1053 0	r r m
ZTbAOoTNu	M071	05g-	05-3	05M2	0561	4g56g	r r m
ZTbAOoTNu	M171	152M	05-6	1500	0533	g451-	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9J	LB126466	o Dr ps&mp9J	aswl sP
Lse9l sb DP9&l 9J9	S03-76	S5w&pmb 5r &u sb r 9J	8N
0 PA5&9l sb DP9&l 9J9	S03-76	t APn&N59 sq&mp9J	1
t s&9T9 Ao r 9c qdmAr C9J	2-2 :-7:14914.J2-J12	t s&s. AP9u sb r 9J	-12S03CC

8spsb r &p	g sww	0n5Ur D1	0n5Ur D2	0n5Ur D	cRvC9 0n5qC	0n5qUI t	F5A&w
cPmb A5Amb	27:2	M- CyM	M-1C47	M22CM	M-yC2	2C26	DDe
c5&b n5h	121:1	1y Cy4	1y1Cy7	2--C71	1yMCM4	2C4	DDe
cpwr 5Aq	7M2	1y4CM4	1y7C5y	1yyC7M	1y7C	1C	DDe
BspAmb	1 M1	yyC7N	y7C27	1-1C2	yyC4	2G2	DDe
BspAmb	1 7:1	yyCM4	yyC1	1- Gy	1--C6y	2C1-	DDe
Br phPAmb	y:1	yyG6	1-2CM	1--Cy1	1--C71	1CM	DDe
BAmb m8%	2-y:1				1-2		E
BAmb m8%	2-y:2				yy		E
Bpmb A5r	N1:1						qDw
0sCb Amb	1-N:1	N G4	N CN	N7CN	N4C7	2CN-	DDe
0sCb Amb	1-6:1	N C2	NMC1	NyC26	N6G6	C4N	DDe
0sCb Amb	111:1	1-4C1	1- C16	1-NCN6	1-MC7	2Cy-	DDe
0sPqAmb	4 :1	1N71Cy	1yM6Cy	1y1-C21	1y12C76	2C2	DDe
0sPqAmb	44:1	1NN-C47	1y46GN	1y2MC21	1y17C2M	1C7M	DDe
0spen5	12:1						qDw
0spen5	12:2						qDw
0%Pnp5r	M1						qDw
0%Pnp5r	M2						qDw
0%pmb Amb	M2:2	y G6	y C7N	yMCN2	y4C22	1CM2	DDe
0nesP&	My:2	yMC1y	yMC6N	y7CM	y6C14	1C-	DDe
0nDDr p	6 :2	y C16	y4G2	y6CM6	y4CMN	1CN7	DDe
t hwDpnwAmb	1M6:1						qDw
t hwDpnwAmb	1M6:2						qDw
GpeAmb	164:1						qDw
GpeAmb	164:2						qDw
HsOnP5Amb	16-:1						qDw
HsOnP5Amb	16-:2						qDw
KnP0Amb	16M1				1-		E
KnP0Amb	16M2				1-1		E
S5OAmb	11M1				1-		E
S5OAmb	11M2				1-1		E
Spn5	M4:2	2-4-CM4	2-64G66	21-MC12	2-7-Gy	1CN	DDe
Spn5	M6:2	2-27CN	2-M-CN	21-NC76	2-62C24	2G	DDe
Spn5	M7:2	1y- C42	1y yG4	2-11G1	1yM1C16	2CN1	DDe
kphD&n5	N :1						qDw
LrsO	2-6:1	1yMCyN	1y7C7y	1y6CNM	1y6CN7	-C46	DDe

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Inst Id :P8

LB9umb er p9J	LB126466	o Dr ps&mp9J	aswl sP
Lse9l sb DP9&l 9J9	S)3-76	S5w&pmb 5r &u sb r 9J	8N
0 PA5&9l sb DP9&l 9J9	S)3-76	t APr&N59 sq&mp9J	1
t s&9T9 Av r 9c qdmAr C9J	2-2 :-7:14914.J2-J12	t s&s. AP9u sb r 9J	-12S)3CC

8spsb r &p	g sww	0n5Ur D1	0n5Ur D2	0n5Ur D	cRvC9 0n5qC	0n5qUI t	F5A&w
LrsO	2-7:1	1y20NN	1y CM7	1y6C1-	1y4C1y	-CN7	DDe
LrsO	2-N:1	2-20M2	2-6C52	2-NC24	2-MC7y	1C4	DDe
LA&%Amb	6:1				1--		E
g sv5r wAmb	24:2	117yC4	11MyCy2	117MCN	1171C7	-CNy	DDe
g s5vs5r wr	MM2	y C16	y C1N	y4C76	y C7-	-CyN	DDe
g nPheCr 5mb	y4:1	-CN6	-Cy	-CN-	-CN6	NC-4	DDe
g nPheCr 5mb	yM1	-CN4	-CN	-CN	-CN	-Cy	DDe
g nPheCr 5mb	y6:1	-CN1	-Cy-	-CN2	-CN4	MCy6	DDe
g nPheCr 5mb	y7:1	-Cy-	-C7y	-CN-	-CN	7C47	DDe
g nPheCr 5mb	yN:1	-CN1	-Cy-	-CNM	-CN6	MC-6	DDe
ur nChb Amb	1M-:1						qDw
ur nChb Amb	1M-:2						qDw
uAqfr P	6-:2	1-MC66	1-NC1y	1-6C27	1-6C71	1C24	DDe
8%nwD%npmw	1:2	:1MC7-	:4CN1	:14CMM	:11C6y		DDe
8n&swwAmb	y:2	1y11CM6	1y6 CMy	1y67C77	1y47C64	1C61	DDe
U%nOAmb	1- :1				1-2		E
U%nOAmb	1- :2				1-2		E
I qs5OAmb	4M1				1-1		E
I qs5OAmb	4M2				yy		E
I rP5Amb	N2:1	2-NC1N	212C	2-6C16	2-NCNy	1CM1	DDe
I rP5Amb	77:2	214C4	1y2C7	21MCNy	2-7C6M	6C24	DDe
I rP5Amb	7N:2	2-yC4y	2-1Cy6	2-yC	2-6Cy	2C-N	DDe
I APqn5	2N:1	C1N	MC-	MC6	4C61	27CMN	DDe
I APr p	1-7:1	4NC-1	4NCMM	M-C4	4NCy6	2C4y	DDe
I APr p	1-y:1	M-CN6	4yCN1	M-CNN	M-CM2	1C21	DDe
I nOAmb	2 :2	2-47C-1	2-2NCNy	2-62Cy	2-46Cy	-CN2	DDe
I &n5&Amb	N6:1	1C7M	1C44	1CMN	1CMy	yC66	DDe
I &n5&Amb	NN:1	1C66	1CM-	1C74	1C6	7CM	DDe
I mPVmp	4:1	:M7-C6-	:2 1C7	:422C7M	:4-NC24		DDe
i r peAmb	1My:1				1-		E
i r peAmb	1My:2				1--		E
i %sPAmb	2- :1	2-4C6M	2-NC11	2-4Cy7	2-MCy1	-Cy	DDe
i %sPAmb	2-M1	217C4M	226C2	21yCy	221C2	2C7	DDe
i A5	11N:1	-C1N	-C17	-C1N	-C17	CM	DDe
i A&5Amb	47:1	-CNM	-Cy2	-C6-	-C7y	21CMN	DDe
Fps5Amb	2 N:1	-C6	-C6	-C6	-C6	1C6N	DDe

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Inst Id :P8

LB9umb er p9J	LB126466	o Dr ps&mp9J	aswl sP
Lse9l sb DrP9&l 9J9	S0 3 - 76	S5w&pmb 5r &u sb r 9J	8 N
0 FA 5&9l sb DrP9&l 9J9	S0 3 - 76	t ArP&A59 sq&mp9J	1
t s&9T9 Ao r 9c qdmAr C9J	2- 2 :- 7:14914.J2- J12	t s&s. AP 9u sb r 9J	- 12S0 3CC

8spsb r &p	g sww	0 n5Ur D1	0 n5Ur D2	0 n5Ur D	cRvC9 0 n5qC	0 n5qUI t	F 5A&w
3s5sOAmb	M1:2	y4C4N	y4CN7	yMC7M	yMC	- C6y	DDe
Y&&pe Amb	172:1						qDw
Y&&pe Amb	172:2						qDw
Y&&pe Amb	176:1						qDw
Y&&pe Amb	176:2						qDw
Y&&pAmb	Ny:1				1- 2		E
Y&&pAmb	Ny:2				1- 1		E
ZA5q	66:2	1NNC11	1N C2y	1y6G 2	1NyC14	C4-	DDe
ZAqn5Amb	y- :1	- Gy	- Gy	- GN	- Gy	6G 4	DDe
ZAqn5Amb	y1:1	- C12	- C1M	- C1	- C1	1- CN2	DDe

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Inst Id :P8

LB:umb er p:9	LB126466	o Dr ps&mp:9	aswl sP
Lse:I sb DPP:S :9	SD B3-6	S5w&pmb 5r &u sb r :9	8N
0 PA 5&I sb DPP:S :9	SD B3-6	t APm&N5:Fsq&mp:9	1
t s&:T:i Ao r :c qdmAr O:9	2327 3- 14:149279J1	t s&sFAP:u sb r :9	31700 BC.O

8 sp sb r & p	Msww	0 n5Rr D1	0 n5Rr D2	0 n5Rr D7	c vg.:0 n5q.	0 n5qRI t	U5A&w
c Pmb A5Amb	2- 2	1.2N	3.-6	1.26	1.13	26.J4	DDe
c 5&b n5y	121 1	3.12	3.12	3.11	3.12	J.32	DDe
c pwr 5Aq	-J 2	3.37	3.34	3.31	3.37	66.22	DDe
BspAmb	17J 1	3.12	3.1h	3.3h	3.17	7h.13	DDe
BspAmb	17- 1	3.12	3.3N	3.3h	3.13	27.J3	DDe
Br pyPAmb	h 1	3.3J	3.3J	3.3J	3.3J	2.J-	DDe
BAwb m8%	23h 1				133		E
BAwb m8%	23h 2				hh		E
Bpmb A5r	N1 1						qDw
0 sCb Amb	13N 1	3.27	3.31	3.16	3.17	h4.17	DDe
0 sCb Amb	136 1	2.37	2.3-	2.N2	2.71		DDe
0 sCb Amb	111 1	3.14	3.13	3.1N	3.14		DDe
0 sPqAmb	47 1	J.Nh	4.67	-.-h	6.13	26.31	DDe
0 sPqAmb	44 1	1N.62	1N.1J	27.66	23.14	1J.16	DDe
0 spen5	12 1						qDw
0 spen5	12 2						qDw
0 %Pnp5r	7J 1						qDw
0 %Pnp5r	7J 2						qDw
0 %pmb Amb	J2 2	3.32	3.3J	3.31	3.32	1J3.1h	DDe
0 nesP&	Jh 2	3.37	3.31	3.31	3.32	6h.26	DDe
0 nDDr p	67 2	3.73	3.2-	3.27	3.2-	12.N6	DDe
t ywDpnwAmb	1J6 1						qDw
t ywDpnwAmb	1J6 2						qDw
CpeAmb	164 1						qDw
CpeAmb	164 2						qDw
GsOnP5Amb	163 1						qDw
GsOnP5Amb	163 2						qDw
HnPb Amb	16J 1				132		E
HnPb Amb	16J 2				131		E
S5OAmb	11J 1				137		E
S5OAmb	11J 2				131		E
Spn5	J4 2	4.31	7.1N	J.73	4.16	2J.62	DDe
Spn5	J6 2	7.2J	2.h4	1.-1	2.67	71.3-	DDe
Spn5	J- 2	2.hN	1.3N	3.hN	1.6N	66.h4	DDe
KpyD&n5	N7 1						qDw
Lr sO	236 1	3.1-	3.14	3.11	3.14	1N.-h	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	o Dr ps&mp:9	aswl sP
Lse:I sb DPP:S :9	SD B3-6	S5w&pmb 5r &u sb r :9	8N
0 PA 5&I sb DPP:S :9	SD B3-6	t APm&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2327 3- 14:149279J1	t s&sFAP:u sb r :9	3170 0 BC.O

8spsb r &p	Msww	0 n5Rr D1	0 n5Rr D2	0 n5Rr D7	cvg.:0 n5q.	0 n5qRI t	U5A&w
Lr sO	23- 1	3.1-	3.16	3.12	3.1J	1N.hh	DDe
Lr sO	23N 1	3.1-	3.14	3.17	3.1J	14.42	DDe
LA&%Amb	6 1				133		E
Msg5r wAmb	24 2	6.24	J.12	4.3N	J.1J	21.33	DDe
Ms5gs5r wr	JJ 2	3.23	3.11	3.13	3.17	41.11	DDe
MnPyeOr 5mb	h4 1	3.22	3.1-	3.1N	3.1h	14.J6	DDe
MnPyeOr 5mb	hJ 1	3.1-	3.23	3.1-	3.1N	N.16	DDe
MnPyeOr 5mb	h6 1	3.2-	3.1h	3.17	3.23	7J.1N	DDe
MnPyeOr 5mb	h- 1	3.2-	3.1-	3.27	3.22	27.26	DDe
MnPyeOr 5mb	hN 1	3.21	3.27	3.21	3.22	J.44	DDe
u r nOyb Amb	1J3 1						qDw
u r nOyb Amb	1J3 2						qDw
u Aqkr P	63 2	3.32	3.31	3.33	3.31	NN.7-	DDe
8 %nwD%npnw	71 2	22.62	1- .h7	2h.6N	27.41		DDe
8 n&swwAmb	7h 2	2J.Nh	7J.h-	73.13	73.6J	16.J2	DDe
R%nOAmb	137 1				133		E
R%nOAmb	137 2				133		E
I qs5OAmb	4J 1				131		E
I qs5OAmb	4J 2				hh		E
I rP 5Amb	N2 1	3.13	3.73	3.72	3.1N		DDe
I rP 5Amb	- - 2	1.3J	1.3J	1.3J	1.3J		DDe
I rP 5Amb	- N 2	3.4J	3.36	3.34	3.16		DDe
I AAqn5	2N 1	3.42	3.hN	1.26	3.3J		DDe
I APr p	13- 1	3.3-	3.36	3.36	3.36	14.7-	DDe
I APr p	13h 1	3.3J	3.34	3.34	3.34	16.- J	DDe
I nOAmb	27 2	41.- -	42.4-	46.14	47.46	J.43	DDe
I &n5&Amb	N6 1	3.J2	3.44	3.2-	3.41	71.3N	DDe
I &n5&Amb	NN 1	3.Jh	3.J4	3.7N	3.J3	22.34	DDe
I mPmp	74 1	631.JN	1- - .NN	- h.J7	277.71		DDe
i r peAmb	1Jh 1				132		E
i r peAmb	1Jh 2				131		E
i %sPAmb	237 1	3.11	3.36	3.3N	3.3h	26.44	DDe
i %sPAmb	23J 1	3.13	3.3N	3.3N	3.3h	1- .37	DDe
i A5	11N 1	3.37	3.31	3.34	3.31		DDe
i A&s5Amb	4- 1	3.27	3.2-	3.3h	3.1h	4h.21	DDe
Ups5Amb	27N 1	3.31	3.31	3.31	3.31	2J.h7	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p9	LB126466	o Dr ps&mp9	aswl sP
Lse:I sb DPr:St :9	SD B3- 6	S5w&mb 5r &u sb r :9	8 N
0 PA 5&I sb DPr:St :9	SD B3- 6	t ArnA5:Fsq&mp9	1
t s&:T:i Ao r :c qdmAr O.9	2327 3- 14:149279J1	t s&sFAr:u sb r :9	3170 0 BC.O

8 spsb r & p	Msww	0 n5Rr D1	0 n5Rr D2	0 n5Rr D7	c vg.:0 n5q.	0 n5qRI t	U5A&w
Vs5sOAmb	J1 2	3.32	3.31	3.33	3.31	N1.4-	DDe
Y&&pe Amb	1- 2 1						qDw
Y&&pe Amb	1- 2 2						qDw
Y&&pe Amb	1- 6 1						qDw
Y&&pe Amb	1- 6 2						qDw
Y&&pAmb	Nh 1				132		E
Y&&pAmb	Nh 2				133		E
ZA5q	66 2	3.16	3.37	3.34	3.3N	h3.7N	DDe
ZAqn5Amb	h3 1	3.32	3.32	3.31	3.32	27.26	DDe
ZAqn5Amb	h1 1	3.3J	3.31	3.32	3.37	6h.J3	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJa	LB126466	ODplw&lJa	swl Pw8
Lwr J3we D&pJ3 JaJ	S03-7 6	Snl &be np&mwe pJa	Nu
0 8pn&3we D&pJ3 JaJ	S03-7 6	t A&o&nJCwc&lJa	1
t w&pJTJ Ae pJ cqbApdJa	272:97 914J14a46a2:	t w&vCA&pJmwe pJa	71uS03-5d

Nwlwe p&pl	v wl l	0 onF pD1	0 onF pD2	0 onF pD:	- URS0 onc5	0 oncF 3 t	. nA&
- &be AnAbe	2 92	gu7MM5u6	gu2 M52	177g 45gM	gg17257:	1564	DDr
- n&e ony	12191	151:	1517	1516	151:	25M7	DDr
- Il pnAc	M92	7541	754:	75M	7546	1:56M	DDr
BwlAbe	1:M91	15M4	1544	15 1	154:	5gM	DDr
BwlAbe	1: 91	1567	1547	15M2	15M7	656g	DDr
Bply8Abe	g91	752u	75 1	75 7	75 7	M51M	DDr
BAAe b&n	27g91				gu		%
BAAe b&n	27g92				gM		%
Bloe Anp	u191						cDl
0wde Abe	17u91	1 5 g	1M57	165 M	16547	u52	DDr
0wde Abe	17691	9456M	9 5u:	9 5M4	94571		DDr
0wde Abe	11191	752	752g	7522	7526	1:5 :	DDr
0w&cAbe	4:91	174:gu564	17411:5u1	gg4g757	17266 5M1	256u	DDr
0w&cAbe	4491	17267g56g	1721: 57:	gg66u5M2	1714 15 M	15M6	DDr
0wlr on	1291						cDl
0wlr on	1292						cDl
0h&lAnp	:M91						cDl
0h&lAnp	:M92						cDl
0hloe Abe	M292	1u5M4	1u56g	1u5	1u5M4	75uM	DDr
0or w&c	Mg92	157u	157u	151:	1517	25 7	DDr
0oDDpl	6:92	522	512	524	51g	75ug	DDr
t yl Dlol Abe	1M691						cDl
t yl Dlol Abe	1M692						cDl
Elr Abe	16491						cDl
Elr Abe	16492						cDl
Gwdo8AnAbe	16791						cDl
Gwdo8AnAbe	16792						cDl
Ho&e Abe	16M91				17M		%
Ho&e Abe	16M92				171		%
SndAbe	11M91				172		%
SndAbe	11M92				g		%
Son	M492	172u 6574	171u1g5 7	1726M6566	1724M756	75M4	DDr
Son	M692	171u6 5u1	172 M252u	171M g5M7	1727M 527	7561	DDr
Son	M 92	17412g56	1746 u574	174474542	174474574	7526	DDr
KlyD&on	u:91						cDl
Lpwd	27691	454:	454M	45M1	4546	75g6	DDr

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r pIJa	LB126466	ODpIw&oIJa	swI Pw8
Lwr J3we D&pJ3 JaJ	S03-7 6	SnI &be np&mwe pJa	Nu
0 8pn&J3we D&pJ3 JaJ	S03-7 6	t A&o&onJCwc&oIJa	1
t w&pJTJ Ae pJ cqbApdJa	272:97 914J14a46a2:	t w&wCA&pJmwe pJa	71uS03-5d

NwIwe p&pI	v wI I	0 onF pD1	0 onF pD2	0 onF pD:	- URS0 onc5	0 oncF 3t	. nA&
Lpwd	27 91	457u	4517	4576	457u	754M	DDr
Lpwd	27u91	451g	452u	452:	452:	157g	DDr
LA&nAse	691				gu		%
v wRnpI Ase	2492	g62675 1	g 67M5g	g416: 54g	g677g5g:	15u1	DDr
v wnRwnpI p	MM92	51u	52g	5 4	52	1514	DDr
v o8yr dpnbe	g491	166 577	16 456u	16115M6	16M157u	257g	DDr
v o8yr dpnbe	gM91	1gu754u	1gu151:	1u6g5 g	1g4: 56	: 5 1	DDr
v o8yr dpnbe	g691	1g625	1g6g527	1g72564	1g445u	15ug	DDr
v o8yr dpnbe	g 91	1gg 514	27: 45u4	1gM4526	1ggM541	2572	DDr
v o8yr dpnbe	gu91	1g6 522	272u5 6	1g165 :	1g 75g7	25uM	DDr
mpodye Ase	1M791						cDI
mpodye Ase	1M792						cDI
mAskp8	6792	M5u2	M5Mg	M56g	M5 7	15g6	DDr
NhoI DhoIbI	: 192	g661u51M	g64 M542	gMM4u54M	g62145 71	7567	DDr
No&wI I Ase	: g92	g62: 45M2	gu: 1 5 :	g g 654	g M7g544	151M	DDr
F hodAse	17: 91				177		%
F hodAse	17: 92				gu		%
3 cwndAse	4M91				172		%
3 cwndAse	4M92				gg		%
3 p8pnAse	u291	9757 2	975M4	97546	975 4		DDr
3 p8pnAse	92	9157M	9157M	9157M	9157M		DDr
3 p8pnAse	u92	75M1	75 1	975 4	7516	2 u51:	DDr
3 A&con	2u91	: M51	: 45g1	: 45 M	: 45u1	1521	DDr
3 A&Upl	17 91	7572	7571	757:	7572	: g5u1	DDr
3 A&Upl	17g91	7572	7572	757:	757:	1 5g2	DDr
3 odAse	2: 92	172ug25u6	1722 M5M7	1716275 4	1722625g4	7562	DDr
3 &onA&se	u691	: M5 1	: 456u	: : 5 u	: 4546	25uM	DDr
3 &onA&se	uu91	: 4561	: 45u1	: 4517	: 45M1	157	DDr
3 b3bI	: 491	gM7u544	gug 5 :	6 g15g6	u : 25 1	251M	DDr
i pIr Ase	1Mg91				17:		%
i pIr Ase	1Mg92				171		%
i hwBse	27: 91	7512	7512	7512	7512	7542	DDr
i hwBse	27M91	7511	7511	7511	7511	154M	DDr
i An	11u91	7527	7527	7514	751u	1g5 1	DDr
i A&wnAse	4 91	2166652	21 45g7	27g25g7	21445u1	2517	DDr
. IwnAse	2: u91	7572	7574	757:	757:	1u541	DDr

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r pIJa	LB126466	ODpIw&IJa	swI Pw8
Lwr J3we D&pJ3 JaJ	S03 - 7 6	SnI &be np&mwe pJa	Nu
0 8&pn&J3 we D&pJ3 JaJ	S03 - 7 6	t A&o&&nJCwc&IJa	1
t w&pJTJ Ae pJ cqbApdJa	272: 97 914J14a46a2:	t w&vCA&pJmwe pJa	71uS03 - 5d

Nwlwe p&pI	v wl I	0 onF pD1	0 onF pD2	0 onF pD:	- URS0 onc5	0 oncF 3 t	. nA&
VwnwdAve	M192	7516	751M	751	7516	6517	DDr
Y&pIr Ave	1 291						cDI
Y&pIr Ave	1 292						cDI
Y&pIr Ave	1 691						cDI
Y&pIr Ave	1 692						cDI
Y&&Ave	ug91				17:		%
Y&&Ave	ug92				177		%
ZAnc	6692	1157:	17527	175 :	175M2	452:	DDr
ZAconAve	g791	757:	757:	7571	7572	M7524	DDr
ZAconAve	g191	7571	757:	7577	7571	12: 56	DDr

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJber plDa	LB126466	otlDPTnDa	lP8NPu
LPpJ3Prtul J&JaJ	S)3-B7 6	S58TDer 5lTbPrlJa	mw
0ut 5TJ3Prtul J&JaJ	S)3-B7 6	&ceTn5JFPqTnDa	1
&PTlJ JAcrlJ qdecD QJa	272:97 914J14as7a2w	&PTPFculJbPrlJa	71CS)3B.O

mPDPrlTlD	MP88	0n5RIt1	0n5RIt2	0n5RIt:	-vg.J0n5q.	0n5qR3&	U5cB
-uer c5cer	2 92	CswCC. :	C674 .22	C:772.1s	C4Cw.7:	1.w1	ttp
-5Tcrn5y	12191	27.24	27.61	27. 7	27.s2	1.1w	ttp
-D8l5cq	s92	1C. 6	27. 7	1C.:7	1C.C2	:.67	ttp
BPDcer	1:s91	27.:1	27.64	27.w	27.61	1.:	ttp
BPDcer	1: 91	21.4w	27.:4	21.12	27.Cw	2. w	ttp
BlDyucer	C91	1w.61	1C.:7	1C.7:	1w.Cw	1.w6	ttp
Bc8rerTn	27C91				CC	%	
Bc8rerTn	27C92				C	%	
BDnrc5l	w191					qt8	
0PCrcer	17w91	:1.24	:1.7w	:1.21	:1.1w	7.2	ttp
0PCrcer	17691	12.7w	11.w2	11. w	11.wC	1.47	ttp
0PCrcer	11191	1C.2s	1C.64	1C.6s	1C.s1	1.16	ttp
0Puqcer	4:91	Cw C1.4w	C6w1s.27	Cw7w7.C	C wCs.ww	1.72	ttp
0Puqcer	4491	C64 .77	CsC:C. s	C6C4w.26	C64ss.77	7.s2	ttp
0PDpn5	1291					qt8	
0PDpn5	1292					qt8	
0hunD5l	:s91					qt8	
0hunD5l	:s92					qt8	
0hDnrcer	s292	:s. w	:6.C4	:s.C4	:6.22	1. 4	ttp
0npPuT	sC92	1C.1s	1C.wC	1C.4w	1C.s1	1.wC	ttp
0nttlD	6:92	24.s6	2s.26	24.47	24. 4	1.ws	ttp
&y8tDn8cer	1s691					qt8	
&y8tDn8cer	1s692					qt8	
EDpcer	16491					qt8	
EDpcer	16492					qt8	
GPOnuc5cer	16791					qt8	
GPOnuc5cer	16792					qt8	
Hnurcer	16s91				176	%	
Hnurcer	16s92				17:	%	
S5Ocer	11s91				17s	%	
S5Ocer	11s92				Cw	%	
SDn5	s492	177164.77	1741 w.sw	CC1w7.7s	1711 4.21	2.62	ttp
SDn5	s692	C 221. C	CCs4:.66	17726w.s4	CC711.:::	1.61	ttp
SDn5	s 92	Cw7 1.1s	172C4s.2:	CCw41.w6	1772w6.7w	2.46	ttp
KDytTn5	w:91					qt8	
LlPO	27691	2s.C7	2s.s7	26.wC	26.7C	2. 4	ttp

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJob er pl Da	LB126466	o t l DPTnDa	l P8NPu
LPpJ3Pr t ul J&JaJ	S)3 - B7 6	S58TDer 5l TbPr l Ja	mw
0ut 5TB Pr t ul J&JaJ	S)3 - B7 6	&ceTn5JFPqTnDa	1
&PTl J JAcr l J qdecD QJa	272: 97 914J14as7a2w	&PTPFcul Jb Pr l Ja	71CS)3B.O

mPDPr l TlD	MP88	0n5Rl t 1	0n5Rl t 2	0n5Rl t :	- vg.J0n5q.	0n5qR3&	U5cB
LI PO	27 91	24.w2	2s.: 2	2s.C7	2s.: s	2.1s	t t p
LI PO	27w91	2s.: s	2s.ss	26.: s	2s. s	2.76	t t p
LcTher	691				172		%
MPg5l 8er	2492	C26 7.w	Cs1: 6.77	C: s1: .16	C: : .: 4	1.: 4	t t p
MP5gP5l 8l	ss92	24.6s	2s.6w	24.67	24.Cw	2.44	t t p
MnuypCl 5er	C491	162: .14	1614.4s	1676.: 1	1614.64	7.s2	t t p
MnuypCl 5er	Cs91	1C1s.C7	1C14.74	1ws6.2w	1wCs.41	1. C	t t p
MnuypCl 5er	C691	1wCs. C	1C7: .16	1w4 .C7	1ww2.2C	1.sC	t t p
MnuypCl 5er	C 91	1Cw7.s	1C: 1.1s	1wC4.s	1C: s.4:	2.2:	t t p
MnuypCl 5er	Cw91	1C1 . 1	1wCs.1C	1ws4.C6	1wwC.2C	1.6w	t t p
b l nCyr cer	1s791						qt 8
b l nCyr cer	1s792						qt 8
b cqkl u	6792	2: .64	24.6	24.7s	24.12	2.14	t t p
mhn8t hnDe8	: 192	C471C. C	Cs147.2	C22s .w1	C: w7s.C6	1.ss	t t p
mnTP88cer	: C92	Cs1C2.1C	C : : w.26	Cs1 2.Cw	CsC71.14	1.: 7	t t p
RhnOcer	17: 91				177		%
RhnOcer	17: 92				C		%
3qP5Ocer	4s91				17:		%
3qP5Ocer	4s92				CC		%
3l ul 5cer	w291	1C.w7	1w.w	1C.76	1C.24	2.s	t t p
3l ul 5cer	92	1s.6	21.1w	14.61	1 .1s	27.s	t t p
3l ul 5cer	w92	1w.C7	1C.: 6	1 . 4	1w.66	4.4	t t p
3cccqn5	2w91	: : .ws	: : .w4	: 6.s4	: 4. 4	4.4w	t t p
3cvl D	17 91	1 .C4	1w.2C	1w.: 1	1w.1w	1.14	t t p
3cvl D	17C91	1w.1	1w.s1	1w.6s	1w.44	1.: :	t t p
3nOcer	2: 92	C : C.42	177: sC.74	CC 1: .11	CC1s7.s:	1.sw	t t p
3TDn5Tcer	w691	: 2.6:	: : .11	: 2.s2	: 2. s	7.C6	t t p
3TDn5Tcer	ww91	: : .ss	: 4.17	: 2.w1	: : .4C	1.C4	t t p
3eufeD	: 491	4w. : .w	: 6ws.s7	: ssC.C2	4726.4:	7.Cs	t t p
Al Dpcer	1sC91				17s		%
Al Dpcer	1sC92				174		%
AhPucer	27: 91	27.11	27.44	27.C:	27.s7	2.71	t t p
AhPucer	27s91	27. 4	27.C7	21.24	27.C6	1.21	t t p
Ac5	11w91	7.12	7.16	7.14	7.14	1s.s2	t t p
AcP5cer	4 91	27w7.: C	27w7.16	27 .2:	27 C.26	7.7w	t t p
UDP5cer	2: w91	7.72	7.72	7.7:	7.7:	17.w2	t t p

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB.Jb er pl Da	LB126466	o t l DPTnDa	l P8NPu
LPpJ3 Pr t ul JS&JaJ	S)3 - B7 6	S58Der 5l Tb Pr l Ja	mw
0 ut 5TJ3 Pr t ul JS&JaJ	S)3 - B7 6	&ceTn5JFPqTnDa	1
&PTl J JAcr l J qdecD QJa	272: 97 914J14as7a2w	&PTPFcul Jb Pr l Ja	71CS)3B.O

mPDPr l TD	MP88	0 n5Rl t 1	0 n5Rl t 2	0 n5Rl t :	- vg.J0 n5q.	0 n5qR3&	U5cB
VP5POcer	s192	1w.ss	1C.2w	1C.: :	1C.7s	2.: 1	t t p
YTTDpcer	1 291						qt 8
YTTDpcer	1 292						qt 8
YTTDpcer	1 691						qt 8
YTTDpcer	1 692						qt 8
YTDcer	wC91				17s		%
YTDcer	wC92				177		%
Zc5q	6692	2w. 1	2w.66	2C.74	2w.w7	7. 1	t t p
ZcDqn5cer	C791	7.71	7.71	7.72	7.72	: 1.76	t t p
ZcDqn5cer	C191	7.74	7.74	7.7	7.7s	: : .s:	t t p

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9mbe r pI9J	LB126466	5 t pIwiCI9J	swl Pw8
Lwr 9Dwe t 8p9RT9J9	SS032-	&l ilbe . pi9mwe p9J	Nu
S8p. i9Dwe t 8p9RT9J9	SS032-	Tqbiq C. 9UwCICI9J	1
Twip9A9cqe p9dCobdpn9J	2327 3: 14914Ja7J21	TwiwUqb9mwe p9J	323SS0Fn

Nwlwe pipl	y wl l	SC. v pt 1	SC. v pt 2	SC. v pt 7	dgMR9SC. CF	SC. Ov DT	R. qI
d8be q dpe	2: 2	a1131F72	4u- - 2F1a	a26a3F66	a3- 14F. 1	7F61	t t r
d. iqe C. h	121 1	4- uF4-	4- 1F62	a14F44	a31Fa2	2F77	t t r
dIl p. qO	: a 2	a1aF. a	a1: F- 3	a36F2-	a17F71	1F23	t t r
Bwldpe	17a 1	2a3uF27	2a24F. 2	2a6- F44	2a74F17	1F2a	t t r
Bwldpe	17: 1	2a2uF7:	2a21F- -	2a26F. -	2a2aF. 2	3F17	t t r
BplhR8pe	- 1	4: aFu3	466F67	4- aF36	4: - F16	7F37	t t r
Bqe bi%	23- 1				133		E
Bqe bi%	23- 2				- 3		E
BlCe q p	u1 1						Cl
Swne dpe	13u 1	4- 1F7u	a31F2u	a3aF3a	4- - F24	1F41	t t r
Swne dpe	136 1	4u- Fu1	4- uF. 2	4- - F- :	4- 6F1:	1F12	t t r
Swne dpe	111 1	4u6F6-	a3aF6u	a13Fa1	a33F- 6	2Fa1	t t r
Sw8Qdpe	47 1	247616F71	24auu6Fu-	2a4741F- -	24: - 4uF7-	2F2u	t t r
Sw8Qdpe	44 1	27: u36Fuu	24a476Fu2	2a32a3Fu3	2444- uF1:	2Fa:	t t r
SwlrC.	12 1						Cl
SwlrC.	12 2						Cl
S%8Clq p	7a 1						Cl
S%8Clq p	7a 2						Cl
S%1Ce dpe	a2 2	4- 3F. -	4: 4F- 4	46: F- 4	4: : Fu-	2F4a	t t r
SCr w8	a- 2	4- uF. 3	4: 6F47	46aF34	4u3F36	7Fa:	t t r
SCt t pl	67 2	4- 66F76	4- 22F- 3	4u66F4-	4- 1uFau	1F32	t t r
ThI t ICI dpe	1a6 1						Cl
ThI t ICI dpe	1a6 2						Cl
GIr dpe	164 1						Cl
GIr dpe	164 2						Cl
HwnC8q dpe	163 1						Cl
HwnC8q dpe	163 2						Cl
KC8e dpe	16a 1				13-		E
KC8e dpe	16a 2				- u		E
&ndpe	11a 1				134		E
&ndpe	11a 2				- 2		E
&C.	a4 2	12- a22F4a	12uau4F6-	12a466F31	12: ua: F. 2	1F66	t t r
&C.	a6 2	12ua77F3:	122- u1F6-	12a277F12	12aau2F62	2F22	t t r
&C.	a: 2	173a- 7F34	12a432F16	12a636F- 3	12: 233F. 3	2F71	t t r
kIht iC.	u7 1						Cl
Lpwn	236 1	241: Fa6	24: 1F37	2aa: F17	24u1F- 3	2Fu4	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9mbe r pI9J	LB126466	5 t pIwiCI9J	swI Pw8
Lwr 9Dwe t 8p9ST 9J9	SS032-	&I iIbe . pi9mwe p9J	Nu
S8p. i9Dwe t 8p9ST 9J9	SS032-	Tq8piqC. 9JwCICI9J	1
Twip9A9cqe p9dCobdpn9J	2327 3: 14914Ja7J21	TwiwUq8p9mwe p9J	323SS0Fn

NwIwe pipI	y wI I	SC. v pt 1	SC. v pt 2	SC. v pt 7	dgMF9SC. CF	SC. Cv DT	R. qI
Lpwn	23: 1	27u7F24	2a37F. 6	2a4aF21	24: : F43	7F43	t t r
Lpwn	23u 1	2414F62	2a17F47	2a: - F61	2a32Faa	7F72	t t r
Lq%qpe	6 1				- -		E
y wM pI qpe	24 2	2a2- 7- F21	2a2: a7Fu3	2a23aaF- 6	2a2au2F- -	3F1u	t t r
y w. Mw. pI p	aa 2	4- : : F6a	4- : : F. 7	4- a3Fa7	4- 6uF64	3F72	t t r
y C8hr np. be	- 4 1	4u- 1F63	4u42F. :	a1a- F36	4- 64F4u	7F47	t t r
y C8hr np. be	- a 1	4: 6- F36	4uu- F3:	a13: F6-	4- 21F- 4	7F4-	t t r
y C8hr np. be	- 6 1	4u- aF26	4- 1uF17	a1uaFu4	4- - - F. a	7F27	t t r
y C8hr np. be	- : 1	4u- 2F42	4u6aF6:	a23aF3:	4- u: F. 2	7F. u	t t r
y C8hr np. be	- u 1	4- 23F3:	4- 64Fu:	a247Fa7	a342Fu2	7F4u	t t r
mpCnhe qpe	1a3 1						CI I
mpCnhe qpe	1a3 2						CI I
mqCr p8	63 2	4- 2F16	4u: F7-	4u2F. 7	4u: F47	3F- :	t t r
N%CI t %CIbI	71 2	- : 7aF31	- u- 6Fa-	- : : aF11	- u32F24	3Fu6	t t r
NCiwI I qpe	7- 2	126- 1- F. 3	12216uF. 7	122au2F47	127u- 3F2-	2F12	t t r
v %Cnqpe	137 1				- -		E
v %Cnqpe	137 2				- 1		E
DCw. nqpe	4a 1				13a		E
DCw. nqpe	4a 2				- 4		E
Dp8p. qpe	u2 1	4: : F- 6	4u1F4u	a3aF7u	4uuF2:	7F36	t t r
Dp8p. qpe	: : 2	a3uF23	4u1F3u	4- 1F. u	4- 7F6-	2F. :	t t r
Dp8p. qpe	: u 2	4u- F. 7	a3- F63	4: 4F6-	4- 1F74	7Fa6	t t r
Dq8qC.	2u 1	47: F7u	462F37	4uuF44	462F62	aFa2	t t r
Dq8gpI	13: 1	4: 7F27	4u2F32	4uuF2-	4u1F1u	1Fa:	t t r
Dq8gpI	13- 1	4uaF2u	4- 2F4u	4- - F74	4- 2F7:	1F47	t t r
DCnqpe	27 2	2a: u67Fu:	24- a1: F1:	2a3- a- F4:	2a2: u3F1:	1F. 6	t t r
DiIC. iqpe	u6 1	1211- F22	1223: Fa-	12: uaF42	127: 3F. a	2F- 2	t t r
DiIC. iqpe	uu 1	11- : 6F61	122auF- 6	12u1- F31	127a1Fa7	7F4:	t t r
Db8%I	74 1	ua22F- 3	uu2: F4-	- : 4aF- u	- 372F12	: F3a	t t r
cpIr qpe	1a- 1				13u		E
cpIr qpe	1a- 2				- :		E
c%w8qpe	237 1	4u7F11	4- : F17	a1: F. 3	4- - F71	7F4u	t t r
c%w8qpe	23a 1	4u- F7a	4- aF. 7	a22F- u	a32F6-	7Faa	t t r
cq	11u 1	4- aF- :	a3uF67	4- - F3a	a31F22	1F72	t t r
cqiw. qpe	4: 1	4ua7F37	4- - 6Fa:	a327F4:	4- a: F6-	1Fua	t t r
RIw. qpe	27u 1	4- 3F. u	a11F- -	a12F22	a34F- -	2F44	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9mbe r pI9J	LB126466	5 t pIwiCI9J	swI Pw8
Lwr 9Dwe t 8p98T 9J9	SS032-	&I iIbe . pi9mwe p9J	Nu
S8p. i9Dwe t 8p98T 9J9	SS032-	T8piqC. 9UwOICI9J	1
Twip9A9cqe p9dOobdpn9J	2327 3: 14914Ja7J21	TwiwUd8p9mwe p9J	323SS0Fn

NwIwe pipI	y wI I	SC. v pt 1	SC. v pt 2	SC. v pt 7	dgMF9SC. OF	SC. Ov DT	R. qI
0w. wndpe	a1 2	a3-F32	a32Fa7	a33F76	a37F=:	3Fu-	t t r
YiipIr dpe	1: 2 1						OI
YiipIr dpe	1: 2 2						OI
YiipIr dpe	1: 6 1						OI
YiipIr dpe	1: 6 2						OI
YiiIdpe	u- 1				13:		E
YiiIdpe	u- 2				-a		E
ZqO	66 2	a326F42	4-36F=u	4u44F21	4-2aFu:	1Fuu	t t r
ZqOC. dpe	-3 1	4u4F26	a36F=7	a12F:a	a31F71	7F33	t t r
ZqOC. dpe	-1 1	4: 2F1u	4: 1F67	4--F46	4u1F3-	7F71	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	SSB023	tOwTpmb Or T:u sb r:9	8N
SR CTI sb DP:t&:9	SSB023	&dmT5C:UsdT5p:9	1
&sT:i :Adb r:qdOmpr o:9	202-70 714:149J6903	&sTsUdP:u sb r:9	021SSB. Fo

8spsb r Tp	y sww	S5Cv r D1	S5Cv r D2	S5Cv r D-	qgMF:S5CdF	S5Cdv l &	RCdTw
qPmb cCmb	2 72	-F2	4F21	2FJ6	-F- J	24F 4	DDe
qCTb 5Ch	12171	0F2J	0F23	0F2N	0F2	6F66	DDe
qpwr Ccl	J72	0F0-	0F0-	0F02	0F0-	26FJN	DDe
Bspcmb	1-J71	0FJ	0F26	0F1N	0F- -	61FN0	DDe
Bspcmb	1- 71	0F4-	0F16	0F21	0F2	J4F02	DDe
Br phPmb	371	0F03	0F03	0F0	0F0N	1 F0J	DDe
Bcwb mT%	20371				101		E
Bcwb mT%	20372				100		E
Bp5b cCr	N171						dDw
Ssob cmb	10N71	0F2J	70F01	0F00	0F0N	1NNF6J	DDe
Ssob cmb	10671	0F1-	70F4	0F22	70F04		DDe
Ssob cmb	11171	0F03	0F0J	0F11	0F0N	-JF64	DDe
SsPlcmb	4-71	-4F1N	22F1J	20F60	2JF64	23F00	DDe
SsPlcmb	4471	NJF46	6FN-	66FJ2	6F2	12F4-	DDe
Sspe5C	1271						dDw
Sspe5C	1272						dDw
S%F5pcCr	-J71						dDw
S%F5pcCr	-J72						dDw
S%p5b cmb	J272	0F01	0F0	70F0N	0F00	JJ30F1	DDe
S5esFT	J372	0F01	0F01	0F00	0F01	36F	DDe
S5DDr p	6-72	0F63	0F6	0FJJ	0F64	11F4N	DDe
&hwDp5wcmb	1J671						dDw
&hwDp5wcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
Gso5RCcmb	16071						dDw
Gso5RCcmb	16072						dDw
H5Pb cmb	16J71				102		E
H5Pb cmb	16J72				101		E
tCocmb	11J71				10-		E
tCocmb	11J72				101		E
tp5C	J472	JF 1	NF63	-F32	6F11	-3F- 3	DDe
tp5C	J672	6FJJ	6F J	-FJ3	JF6-	-1F41	DDe
tp5C	J 72	4F04	4F 2	4F 6	4FJ1	NF3N	DDe
KphDT5C	N-71						dDw
Lr so	20671	0F4J	0F- J	0F2N	0F- 6	2-F24	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	n Dr psT5p:9	aswl sP
Lse:I sb DPP:t&:9	SSB023	tOwTpmb Or T:u sb r:9	8N
SPr CTI sb DPP:t&:9	SSB023	&dPmT5C:UsdT5p:9	1
&sTr:i :Adb r:qdOmpr o:9	202-70 714:149J6903	&sTsUdP:u sb r:9	021SSB. Fo

8spsb r Tr p	y sww	S5Ov r D1	S5Ov r D2	S5Ov r D-	qgMF:S5OdF	S5Odv I &	ROdTw
Lr so	20 71	0F-3	0F4J	0F2N	0F-	24F1J	DDe
Lr so	20N71	0F40	0F-3	0F2N	0F-6	1NF2	DDe
LdP%mb	671				3N		E
y sMOr wmb	2472	10F21	3F6N	6F12	NF6	2JF 1	DDe
y sOMsOr wr	JJ72	0F1	0F16	0F1	0F16	4F3N	DDe
y 5Pheor Omb	3471	1F06	0F J	0FN2	0FN	1NF46	DDe
y 5Pheor Omb	3J71	1F20	0F36	0F 1	0F36	2JFJ	DDe
y 5Pheor Omb	3671	0FN2	0F 6	0FN1	0F 3	4F26	DDe
y 5Pheor Omb	3 71	0F34	0F34	0FN0	0F30	NFN6	DDe
y 5Pheor Omb	3N71	0FN3	0F3	0F -	0FN	14F02	DDe
u r 5ohb omb	1J071						dDw
u r 5ohb omb	1J072						dDw
u dkr P	6072	0F01	0F0-	70F02	0F01	- 6FJ	DDe
8 %5wD%5pmw	- 172	74F21	711F4J	73F -	7NF46		DDe
8 5Tswwmb	- 372	34F-1	N6F-3	6F10	NJF60	10F6	DDe
v %5oomb	10-71				102		E
v %5oomb	10-72				101		E
I dsOomb	4J71				102		E
I dsOomb	4J72				100		E
I r POmb	N271	70F-N	70F13	70FJ1	70F-6		DDe
I r POmb	72	71F0J	0F01	71F0J	70F 0		DDe
I r POmb	N72	0F12	0F4-	0F-N	0F-1	J2F 3	DDe
I dd5C	2N71	6F12	JFN0	4FN-	JFJN	12F04	DDe
I dgr p	10 71	0F04	0F0-	0F0-	0F0-	16FJJ	DDe
I dgr p	10371	0F04	0F01	0F0-	0F02	60F44	DDe
I 5oomb	2-72	143F34	14NF-0	12 F-1	141FNJ	NF30	DDe
I Tp5CTomb	N671	1F-J	1F22	0F30	1F16	20F06	DDe
I Tp5CTomb	NN71	1F1	1F0	0F3J	1F06	10F22	DDe
I mPmp	- 471	72J1F-N	7N3FJ6	7-N0F01	7240F-2		DDe
Ar peomb	1J371				102		E
Ar peomb	1J372				101		E
A%sPmb	20-71	0F2J	0F2-	0F13	0F22	14F46	DDe
A%sPmb	20J71	0F26	0F2	0F22	0F2J	3F1	DDe
AdC	11N71	0F11	0F0J	0F0-	0F0	60F0J	DDe
AdsOomb	4 71	0F3-	0F66	0F4N	0F63	- 2F 6	DDe
RpsOomb	2-N71	0F0J	0F04	0F02	0F04	- 6F-1	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber p9	LB126466	n Dr psT5p9	aswl sP
Lse:I sb DP:t&:9	SSB023	tOwTpmb Or T:u sb r:9	8N
SPr CTI sb DP:t&:9	SSB023	&dPmT5C:UsdT5p9	1
&sTr:i :Adb r:qdOmpr o:9	202-70 714:149J69D3	&sTsUdP:u sb r:9	021SSB. Fo

8spsb r Tr p	y sww	S5Ovr D1	S5Ovr D2	S5Ovr D-	qgMF:S5OdF	S5Odv l &	ROdTw
VsOsoomb	J172	0F00	0F02	0F01	0F01	1-3F42	DDe
YTTr peomb	1 271						dDw
YTTr peomb	1 272						dDw
YTTr peomb	1 671						dDw
YTTr peomb	1 672						dDw
YTTpomb	N371				10-		E
YTTpomb	N372				100		E
ZdOd	6672	0F4	0F6J	0F61	0FJN	16F3-	DDe
Zqpd5Oomb	3071	0F04	0F0J	0F0J	0F0J	14FN2	DDe
Zqpd5Oomb	3171	0F0	0F0N	0F0J	0F0	16F3-	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.69	8.09	8.04	6.94	28.03	ppb
Antimony	121-1	0.05	0.04	0.06	0.05	17.89	ppb
Arsenic	75-2	0.03	0.01	0.03	0.02	38.99	ppb
Barium	135-1	0.01	0.02	0.04	0.02	56.99	ppb
Barium	137-1	0.01	0.01	0.04	0.02	72.22	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	9.93	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.09	0.08	0.07	60.87	ppb
Cadmium	106-1	-2.40	-1.43	-1.07	-1.63		ppb
Cadmium	111-1	-0.17	-0.10	-0.07	-0.11		ppb
Calcium	43-1	2.69	1.48	-0.02	1.38	98.28	ppb
Calcium	44-1	38.69	58.24	47.71	48.22	20.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.03	0.06	0.00		ppb
Cobalt	59-2	-0.01	0.01	0.02	0.01	363.87	ppb
Copper	63-2	0.37	0.47	0.42	0.42	11.28	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				103		%
Indium	115-2				98		%
Iron	54-2	10.16	10.98	10.98	10.71	4.45	ppb
Iron	56-2	4.87	8.70	11.55	8.37	40.03	ppb
Iron	57-2	2.07	12.19	9.04	7.77	66.68	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.05	0.07	21.16	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.13	0.08	0.10	21.41	ppb
Lead	208-1	0.08	0.10	0.07	0.08	17.58	ppb
Lithium	6-1				100		%
Magnesium	24-2	5.75	12.98	12.30	10.34	38.57	ppb
Manganese	55-2	0.09	0.14	0.14	0.12	24.55	ppb
Molybdenum	94-1	0.12	0.09	0.08	0.10	26.12	ppb
Molybdenum	95-1	0.10	0.09	0.10	0.10	8.38	ppb
Molybdenum	96-1	0.11	0.10	0.12	0.11	10.44	ppb
Molybdenum	97-1	0.12	0.13	0.14	0.13	8.26	ppb
Molybdenum	98-1	0.13	0.09	0.11	0.11	18.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	0.01	0.00		ppb
Phosphorus	31-2	-32.91	-14.46	3.52	-14.62		ppb
Potassium	39-2	71.86	71.83	71.24	71.64	0.49	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				101		%
Scandium	45-2				98		%
Selenium	82-1	0.10	0.15	-0.11	0.05	289.51	ppb
Selenium	77-2	-1.05	-1.05	-1.05	-1.05		ppb
Selenium	78-2	-0.25	0.35	0.21	0.10	308.35	ppb
Silicon	28-1	-1.04	5.54	2.84	2.45	135.17	ppb
Silver	107-1	0.03	0.02	0.02	0.02	33.41	ppb
Silver	109-1	0.01	0.02	0.01	0.02	30.54	ppb
Sodium	23-2	111.13	118.46	108.17	112.59	4.70	ppb
Strontium	86-1	0.14	0.01	0.19	0.11	84.21	ppb
Strontium	88-1	0.10	0.06	0.05	0.07	37.84	ppb
Sulfur	34-1	-478.13	807.73	316.96	215.52	301.09	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.11	0.13	0.09	0.11	15.86	ppb
Thallium	205-1	0.12	0.12	0.13	0.12	5.93	ppb
Tin	118-1	-0.01	0.02	0.06	0.02	130.09	ppb
Titanium	47-1	0.06	0.22	0.10	0.13	66.34	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	216.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	0.28	0.25	0.23	0.25	9.84	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	198.57	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	78.59	ppb

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Inst Id :P8

LBJumb er pJa	LB126466	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	SB1043-7B	D5l &pmb 5r &uwb r Ja	SN
C8A5&J wb l 8 JD JaJ	LC 3-7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	232-:39:14J10a82a14	t w&WJA8 Juwb r Ja	32-LC . FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l -	cgMFCn5qF	Cn5qv t	R5A&
c 8mb A5Amb	29:2	- - F24	- 3F64	- 1F12	- 1F69	4F-6	l l e
c 5&b n5h	121:1	- F30	- F41	- F16	- F21	0F93	l l e
cpl r 5Aq	90:2	1F00	1F-7	1F00	1F03	6F1N	l l e
BwpAmb	1-0:1	10F1-	16F01	10F27	10F64	4FN3	l l e
BwpAmb	1-9:1	10F33	19F2N	16F32	16F13	9F37	l l e
Br ph8Amb	7:1	1F09	1F9-	1F00	1F62	6F21	l l e
BAb m8%	237:1				132		E
BAb m8%	237:2				133		E
Bpmb A5r	N1:1						qll
CwCb Amb	13N:1	1F0-	1FN1	1F9-	1F67	NF4-	l l e
CwCb Amb	136:1	3F29	1FN1	3F44	3FN4	133F17	l l e
CwCb Amb	111:1	1F6-	1FN-	1F60	1F91	6F0-	l l e
Cw&pAmb	4-:1	9-7F79	N39F0-	966F4N	991F-	4F41	l l e
Cw&pAmb	44:1	962F33	N0-F67	974F90	N3-F4N	0F9N	l l e
Cwpen5	12:1						qll
Cwpen5	12:2						qll
C%&np5r	-0:1						qll
C%&np5r	-0:2						qll
C%pmb Amb	02:2	- F32	- F3-	- F3N	- F34	3F77	l l e
Cnew&&	07:2	1F00	1F0-	1F01	1F0-	1F20	l l e
CnI l r p	6-:2	- F42	- F-9	- F-4	- F-N	1F3N	l l e
t hl l pnl Amb	106:1						qll
t hl l pnl Amb	106:2						qll
. peAmb	164:1						qll
. peAmb	164:2						qll
GwOn8&5Amb	163:1						qll
GwOn8&5Amb	163:2						qll
Hn8b Amb	160:1				13-		E
Hn8b Amb	160:2				13-		E
D5OAmb	110:1				130		E
D5OAmb	110:2				132		E
Dpn5	04:2	- - 0F12	- 29F6N	- 2NF29	- - 3F-6	1F20	l l e
Dpn5	06:2	- 26F-9	- 19F64	- 1NF3-	- 23F6N	1F04	l l e
Dpn5	09:2	- 19F37	- 23F62	- 2-F-4	- 23F-0	3F7N	l l e
Kphl &a5	N-:1						qll
LrwO	236:1	1F42	1F60	1F0-	1F0-	9F44	l l e

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Inst Id :P8

LBJumb er pJa	LB126466	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	SB1043-7B	D5l &pmb 5r &uwb r Ja	SN
C8A5&J wb l 8 JD JaJ	LC 3-7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	232-:39:14J10a82a14	t w&WJA8 Juwb r Ja	32-LC . FO

Swpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l -	cgMFCn5qF	Cn5qv t	R5A&
Lr wO	239:1	1F62	1F06	1F67	1F62	-F77	l l e
Lr wO	23N:1	1F47	1F62	1F09	1F06	4F36	l l e
LA&%Amb	6:1				133		E
y wW5r l Amb	24:2	N1NF14	N36F17	972F24	N30F02	1F61	l l e
y w5Mw5r l r	00:2	1F60	1F07	1F00	1F07	-F10	l l e
y n8neOr 5mb	74:1	7F3-	7F03	7F4N	7F-4	2FN4	l l e
y n8neOr 5mb	70:1	9F20	NF31	NF32	9F96	0F92	l l e
y n8neOr 5mb	76:1	9F91	NF--	NF36	NF3-	-F73	l l e
y n8neOr 5mb	79:1	9F63	NF04	9F67	9F74	6F01	l l e
y n8neOr 5mb	7N:1	9F4-	NF40	9FN2	9F73	6F47	l l e
u r nOhb Amb	103:1						qll
u r nOhb Amb	103:2						qll
u Aqkr 8	63:2	1F09	1F6-	1F61	1F63	2F39	l l e
S%nl l %npm	-1:2	:10F14	1F7N	:-9F01	:16FN7		l l e
Sn&wl l Amb	-7:2	N42F3N	N-7F04	N14F77	N-2F23	1FN3	l l e
v %nOAmb	13-:1				132		E
v %nOAmb	13-:2				132		E
qw5OAmb	40:1				132		E
qw5OAmb	40:2				133		E
r 8 5Amb	N2:1	9F96	NF2N	9FN0	9F76	-F40	l l e
r 8 5Amb	99:2	11F40	7F-3	9F16	7F-3	2-F36	l l e
r 8 5Amb	9N:2	13F-N	9F4N	9F99	NF04	1NF93	l l e
A&qn5	2N:1	10F69	22F06	19F00	1NF07	17F16	l l e
A&gr p	139:1	1F01	1F69	1F6-	1F63	0F13	l l e
A&gr p	137:1	1F06	1FN-	1F0N	1F66	7F19	l l e
nOAmb	2-:2	N73FNN	N97F-7	N96F34	NN2F13	3FNN	l l e
&n5&Amb	N6:1	2F12	1FN4	1FN-	1F7-	NF00	l l e
&n5&Amb	NN:1	1F7-	1F70	1F99	1FNN	0F17	l l e
m6mp	-4:1	:219F1N	677FN-	140F7N	237F00	223F-N	l l e
i r peAmb	107:1				13-		E
i r peAmb	107:2				131		E
i %w8Amb	23-:1	1F02	1F93	1F04	1F0N	6F12	l l e
i %w8Amb	230:1	1F40	1F64	1F6-	1F09	6F70	l l e
i A5	11N:1	3F31	3F30	3F31	3F32	N4F49	l l e
i A&w5Amb	49:1	NF49	7F0N	NF33	NF6N	7F-4	l l e
Rpw5Amb	2-N:1	1F43	1F02	1F02	1F4N	4F04	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJumb erpJa	LB126466	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	SB1043-7B	D5l &mb 5r &u wb r Ja	SN
C8A5&J wb l 8 JD JaJ	LC 3-7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	232-:39:14J10a32a14	t w&WJA8 Ju wb r Ja	32-LC . FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l -	cgMFCn5qF	Cn5qv t	R5A&
Vw5wOAmb	01:2	9F67	9FN9	9F02	9F67	2F20	l l e
Y8&pe Amb	192:1						ql l
Y8&pe Amb	192:2						ql l
Y8&pe Amb	196:1						ql l
Y8&pe Amb	196:2						ql l
Y8&pAmb	N7:1				130		E
Y8&pAmb	N7:2				131		E
ZA5q	66:2	9F-0	9F70	9F9N	9F67	-F7N	l l e
ZAqn5Amb	73:1	1F4N	1F6N	1F63	1F07	6F20	l l e
ZAqn5Amb	71:1	1F4N	1F09	1F0N	1F04	-F96	l l e

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Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-71	Dw&umne&Nsme:9	8J
RFen&psmI Re:D :9	My 7. h6	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO:9	2720-7 -14:139739 1J	t s&s. Ae:Nsme:9	724c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
cRmAAum	2 -2	0hF2h	0 FhJ	0 F66	0JF01	2F23	I I b
cn&mon%	121-1	7F1	7F1J	7F16	7F1	6FJ0	I I b
crwenAq	3-2	7F16	7F22	7F1J	7F1h	13F77	I I b
BsrAum	103-1	26F2J	26F04	2 F66	26F 6	2Fh2	I I b
BsrAum	10 -1	2 F17	2 F4	2JF37	2 F6h	2F62	I I b
Ber%BAum	h-1	7F7h	7F17	7F17	7F17	4F47	I I b
BAumu&E	27h-1				171		G
BAumu&E	27h-2				h		G
BromAne	J1-1						ql w
RsOmAum	17J-1	7F7J	7F7J	7F7J	7F7J	0F11	I I b
RsOmAum	176-1	7F13	-2F70	7F2J	-7F30		I I b
RsOmAum	111-1	7F70	-7F14	7F74	-7F72		I I b
RsRqAum	40-1	14422F71	137J3F6J	14413F17	14647Fh0	2F60	I I b
RsRqAum	44-1	13126Fh4	131J4Fh7	1310hFh0	13137F3h	7F27	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	03-1						ql w
REFrAne	03-2						ql w
REromAum	32-2	4F11	4F1	4F26	4F1J	1FJ7	I I b
RobsR&	3h-2	7F20	7F21	7F24	7F20	3F2h	I I b
RoI I er	60-2	7FJ6	7FJ6	7FJJ	7FJ	1F13	I I b
t %wI rowAum	136-1						ql w
t %wI rowAum	136-2						ql w
CrbAum	164-1						ql w
CrbAum	164-2						ql w
HsOoFhAum	167-1						ql w
HsOoFhAum	167-2						ql w
y oFmAum	163-1				171		G
y oFmAum	163-2				177		G
DrOAum	113-1				170		G
DrOAum	113-2				hJ		G
Don	34-2	031F61	040F26	04 F03	04 F41	1F27	I I b
Don	36-2	044F7J	043F27	002FJ3	047F 1	2F71	I I b
Don	3 -2	0 1F40	046FJ4	060F12	067F46	0F4	I I b
Kr%&on	J0-1						ql w
LesO	276-1	7F00	7F0J	7F0J	7F06	Fh3	I I b

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Inst Id :P8

LB:Number:9	LB126466	S I ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-71	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My 7. h6	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139739 1J	t s&s. Ae:Nsme:9	724c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	Un&w
LesO	27 -1	7F06	7F47	7F00	7F06	hFh3	I I b
LesO	27J-1	7F00	7F0h	7F0	7F0	JF23	I I b
LAEAum	6-1				hh		G
MsgnewAum	24-2	2h20F3	2h66F10	2Jh F4J	2h2hF76	1F1J	I I b
Msngsnewe	33-2	11Fh1	11F47	11F40	11F3J	2F43	I I b
MoP%bOenum	h4-1	1F2	1F04	1F0J	1F00	4F76	I I b
MoP%bOenum	h3-1	1F06	1F00	1F2J	1F00	2Fh2	I I b
MoP%bOenum	h6-1	1F26	1F23	1F24	1F23	7F31	I I b
MoP%bOenum	h -1	1F42	1F03	1F47	1F0h	2F0	I I b
MoP%bOenum	hJ-1	1F06	1F0J	1F04	1F06	1F33	I I b
NeoO%mAum	137-1						ql w
NeoO%mAum	137-2						ql w
NAqkeP	67-2	1F67	1F66	1F 1	1F66	0F27	I I b
8 EowI Eoruw	01-2	24F6h	-1F44	-2Fh3	6F	22hF6J	I I b
8 o&swwAum	0h-2	1 34F72	1 21F37	16hhF14	1 24FJh	1F67	I I b
5 EoOAum	170-1				171		G
5 EoOAum	170-2				hh		G
pqsnOAum	43-1				171		G
pqsnOAum	43-2				h6		G
pe?enAum	J2-1	-7F11	-7F14	7F41	7F76	334F 0	I I b
pe?enAum	-2	-1F73	-1F73	-1F73	-1F73		I I b
pe?enAum	J-2	-7F04	7F04	7Fh4	7F02	271Fh6	I I b
pAqon	2J-1	02h0Fh1	046JF20	02 hF73	004 F76	0F14	I I b
pA?er	17 -1	7F71	-7F71	7F77	7F77		I I b
pA?er	17h-1	7F77	7F77	-7F71	7F77		I I b
poOAum	20-2	17J44F 1	17h60FJh	17Jh2Fh4	17h77F31	7F33	I I b
p&ona&um	J6-1	6JF 6	7F41	1Fh	7F0J	2F2J	I I b
p&ona&um	JJ-1	6hF7	1F7	1F26	7F4	1F 2	I I b
pulPur	04-1	416JF04	4213F2J	0432F46	0h43F06	17FJ4	I I b
i erbAum	13h-1				171		G
i erbAum	13h-2				177		G
i EsPAum	270-1	7F7	7F73	7F7	7F76	10FJ	I I b
i EsPAum	273-1	7F7J	7F76	7F76	7F7	13F13	I I b
i A	11J-1	7F06	7F00	7F0	7F03	3F46	I I b
i A&snAum	4 -1	1F71	7Fh4	7Fh7	7Fh3	3F 0	I I b
UrsnAum	20J-1	7Fh4	7Fh3	1F77	7Fh6	0F2	I I b

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Inst Id :P8

LB:Number:9	LB126466	S I ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-71	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My 7. h6	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2720-7 -14:139739 1J	t s&s. Ae:Nsme:9	724c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	31-2	7F46	7F37	7F0	7F44	14F24	l l b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	Jh-1				171		G
Y&&Aum	Jh-2				hJ		G
ZAnq	66-2	1 F3h	16Fhh	16F2	16Fh3	0FJJ	l l b
ZAqonAum	h7-1	7F7J	7F17	7F16	7F12	0 F31	l l b
ZAqonAum	h1-1	7F17	7F11	7F1h	7F10	03F10	l l b

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Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-72	Dw&umne&Nsme:9	8J
RFen&psmI Re:D :9	My 7. h	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139 7J916	t s&s. Ae:Nsme:9	723c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
cRmAAum	2 -2	43F46	46F03	4 F76	46F2h	1F 4	I I b
cn&mon%	121-1	7F10	7F10	7F11	7F12	hF10	I I b
crwenAq	3-2	7F04	7F41	7F37	7F42	27F02	I I b
BsrAum	103-1	43F36	46FJ0	43F h	46F76	1F4	I I b
BsrAum	10 -1	4JF6J	4 FJh	46F6	4 F 3	2F12	I I b
Ber%BAum	h-1	7F12	7F13	7F12	7F10	17F7	I I b
BAumu&E	27h-1				177		G
BAumu&E	27h-2				177		G
BromAne	J1-1						ql w
RsOmAum	17J-1	7F44	7F07	7F20	7F02	00F46	I I b
RsOmAum	176-1	-2F71	-7FJJ	-1F11	-1F00		I I b
RsOmAum	111-1	-7F13	-7F73	-7F76	-7F7J		I I b
RsRqAum	40-1	2hh 7FJJ	2h40 FJJ	2hh12Fh4	2h 0Fh7	7FhJ	I I b
RsRqAum	44-1	0127hF0J	07230Fh3	076JhF20	07 1 F32	1F36	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	03-1						ql w
REFrAne	03-2						ql w
REromAum	32-2	1FJh	1Fh2	1F 6	1FJ6	4F43	I I b
RobsR&	3h-2	7F30	7F33	7F36	7F33	0F1	I I b
RoI I er	60-2	7FJh	7Fh6	1F76	7Fh	JF43	I I b
t %wI rowAum	136-1						ql w
t %wI rowAum	136-2						ql w
CrbAum	164-1						ql w
CrbAum	164-2						ql w
HsOoFhAum	167-1						ql w
HsOoFhAum	167-2						ql w
y oFmAum	163-1				174		G
y oFmAum	163-2				171		G
DrOAum	113-1				170		G
DrOAum	113-2				171		G
Don	34-2	J36F20	h76F30	JJ3F14	JJ2F60	2FJ6	I I b
Don	36-2	J37F23	J61F47	J66F76	J3hF24	7Fh3	I I b
Don	3 -2	JJ4F h	JJhF12	h11F02	Jh3F7J	1F3h	I I b
Kr%&on	J0-1						ql w
LesO	276-1	7F2	7F2J	7F01	7F2h	F12	I I b

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Inst Id :P8

LB:Number:9	LB126466	S I ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-72	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My 7. h	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139 7J9 16	t s&s. Ae:Nsme:9	723c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	27 -1	7F26	7F07	7F00	7F2h	11F02	I I b
LesO	27J-1	7F2h	7F2h	7F2h	7F2h	7F h	I I b
LAEAum	6-1				hh		G
MsgnewAum	24-2	1 3FJ4	4 7F7h	230FJ1	2hhFh1	2F7h	I I b
Msngsnewe	33-2	3JF04	67F6h	67F33	3hFJ6	2F27	I I b
MoP%bOenum	h4-1	3F66	3F4h	3F6h	3F61	1Fh1	I I b
MoP%bOenum	h3-1	6F63	6F37	6F40	6F30	1F 2	I I b
MoP%bOenum	h6-1	6F3h	3FhJ	6F6	6F41	3Fh7	I I b
MoP%bOenum	h -1	6F62	6F	6F J	6F 2	1F2	I I b
MoP%bOenum	hJ-1	6F 6	6F4	6F67	6F61	2F1h	I I b
NeoO%mAum	137-1						ql w
NeoO%mAum	137-2						ql w
NAqkeP	67-2	7Fh7	7FJ2	7FJh	7FJ	4F62	I I b
8EowI Eoruw	01-2	-1FJ7	1JF26	-14F34	7F64	23 JFh1	I I b
8o&swwAum	0h-2	2J16F73	2J4 F33	2J 2F67	2J43F47	1F77	I I b
5EoOAum	170-1				172		G
5EoOAum	170-2				171		G
pqsnOAum	43-1				172		G
pqsnOAum	43-2				hh		G
pefenAum	J2-1	7F44	7F32	7F J	7F3J	07F31	I I b
pefenAum	-2	1F77	-1F73	-1F73	-7F0		I I b
pefenAum	J-2	7F 6	7F00	7FJh	7F66	44F30	I I b
pAqon	2J-1	32h1F02	327 F47	32h F24	3263F02	7Fh3	I I b
pAer	17 -1	7F77	7F77	7F71	7F77	6JF43	I I b
pAer	17h-1	7F77	7F77	7F71	7F77	221F	I I b
poOAum	20-2	270J4FJh	27J62FJ1	27 h3F0h	276J1F70	1F23	I I b
p&ona&Aum	J6-1	1 2F23	1 4F12	16 F10	1 1F16	2F11	I I b
p&ona&Aum	JJ-1	1J2F1	1 6F32	1 hF67	1 hF40	1F3J	I I b
pufur	04-1	142 1FJ6	1023hFh7	1046 F6J	10666F4J	0Fh1	I I b
i erbAum	13h-1				170		G
i erbAum	13h-2				172		G
i EsPAum	270-1	7F70	7F70	7F73	7F74	22F24	I I b
i EsPAum	273-1	7F73	7F76	7F74	7F73	1 F0h	I I b
i An	11J-1	7F0h	7F02	7F0	7F06	17F3J	I I b
i A&snAum	4 -1	1F71	7FhJ	1F27	1F76	11F4	I I b
UrsnAum	20J-1	2F7	1FhJ	2F76	2F74	2F40	I I b

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Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-72	Dw&umne&Nsme:9	8J
RFen&psml Re:D :9	My 7. h	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139 7J9 16	t s&s. Re:Nsme:9	723c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&w
VsnsOAum	31-2	7F0h	7F0	7F02	7F06	hF04	l l b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	Jh-1				176		G
Y&&Aum	Jh-2				177		G
ZAnq	66-2	42F2h	40F00	42F06	42F66	1F06	l l b
ZAqonAum	h7-1	7F7J	7F10	7F14	7F12	2 F33	l l b
ZAqonAum	h1-1	7F7J	7F7h	7F10	7F17	23F01	l l b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-70	Dw&umne&Nsme:9	8J
RFen&psmI Re:D :9	My 7. h t	t AR&on:. sq&or:9	1
t s&e:T:i Ane:cqduAeO.9	2720-7 -14:139119IJ	t s&s. Ae:Nsme:9	726c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	Un&w
cRmAAum	2 -2	43F7h	44F00	4 F6h	43F 7	0FJ6	I I b
cn&mon%	121-1	7F12	7F10	7F12	7F12	4F42	I I b
crwenAq	3-2	7F46	7F42	7F37	7F46	JFJ0	I I b
BsrAum	103-1	4 F33	4JF60	4JF43	4JF21	1F27	I I b
BsrAum	10 -1	4hF21	4hF4h	4JF 2	4hF14	7F h	I I b
Ber%RAum	h-1	7F16	7F14	7F16	7F13	3F20	I I b
BAumu&E	27h-1				hJ		G
BAumu&E	27h-2				h6		G
BromAne	J1-1						ql w
RsOmAum	17J-1	7F23	7F36	7F47	7F47	0hF21	I I b
RsOmAum	176-1	-2F40	-7F14	-1F3	-1F0J		I I b
RsOmAum	111-1	-7F14	7F70	-7F7J	-7F76		I I b
RsRqAum	40-1	012h6F44	07J0hF3	073J7Fh7	07h73F64	1F1	I I b
RsRqAum	44-1	017J0Fh2	01406FJ2	01234F6h	0123JF4J	7F36	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	03-1						ql w
REFrAne	03-2						ql w
REromAum	32-2	1F 6	1Fh1	1F h	1FJ2	4F42	I I b
RobsR&	3h-2	7F33	7F3h	7F32	7F33	6F03	I I b
RoI I er	60-2	7FJh	7FJ3	7Fh2	7FJh	4F2J	I I b
t %wI rowAum	136-1						ql w
t %wI rowAum	136-2						ql w
CrbAum	164-1						ql w
CrbAum	164-2						ql w
HsOoFhAum	167-1						ql w
HsOoFhAum	167-2						ql w
y oFmAum	163-1				171		G
y oFmAum	163-2				hh		G
DrOAum	113-1				174		G
DrOAum	113-2				h		G
Don	34-2	J34F3	J32F17	J02F12	J46F26	1F46	I I b
Don	36-2	J01F17	J01F16	J01F77	J01F7J	7F71	I I b
Don	3 -2	J36FJJ	J6 F6J	J44F67	J36F0h	1F03	I I b
Kr%&on	J0-1						ql w
LesO	276-1	7F26	7F2J	7F2J	7F2	0F 1	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-70	Dw&umne&Nsme:9	8J
RAen&psmI Re:D :9	My 7. h t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139119IJ	t s&s. Ae:Nsme:9	726c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
LesO	27 -1	7F2	7F07	7F2	7F2J	3F64	I I b
LesO	27J-1	7F26	7F2	7F2	7F2	1F60	I I b
LAEAum	6-1				hJ		G
MsgnewAum	24-2	47 F2J	037F6h	431F17	470F72	7F6J	I I b
Msngsnewe	33-2	67Fh3	61Fh4	61F1	61F06	7FJ3	I I b
MoP%oOenum	h4-1	3F03	3FJ0	3Fh3	3F 1	3F3h	I I b
MoP%oOenum	h3-1	6F60	6F 2	6F67	6F63	7Fh4	I I b
MoP%oOenum	h6-1	6F 7	6F32	6F	6F66	1Fh2	I I b
MoP%oOenum	h -1	6FJ	6FJJ	F16	6Fh	2F00	I I b
MoP%oOenum	hJ-1	6Fh3	6Fh6	6FJ2	6Fh1	1F14	I I b
NeoO%mAum	137-1						ql w
NeoO%mAum	137-2						ql w
NAqkeP	67-2	7F	7Fh1	7Fh0	7FJ	17F20	I I b
8EowI Eoruw	01-2	-21F22	-6F6J	-14F0J	-14F7h		I I b
8o&swwAum	0h-2	2h44F66	2h27F70	2h73F23	2h20F02	7F6J	I I b
5EoOAum	170-1				hJ		G
5EoOAum	170-2				h		G
pqsnOAum	43-1				177		G
pqsnOAum	43-2				h		G
pe?enAum	J2-1	7FJ6	7F31	7F32	7F60	01F40	I I b
pe?enAum	-2	7F72	7F70	-1F73	-7F04		I I b
pe?enAum	J-2	7F 4	1F76	7Fh3	7Fh2	1 F0	I I b
pAqon	2J-1	340 F27	34 2F1	3066F2	3423F21	7Fhh	I I b
pAer	17 -1	7F77	7F77	7F71	7F77	J3F3J	I I b
pAer	17h-1	7F77	7F77	7F77	7F77		I I b
poOAum	20-2	27h44F7h	27J26FJ7	211 2F23	27hJ1F73	7FJ4	I I b
p&on&Aum	J6-1	1 6F h	1 hF 7	1 hF2h	1 JF3h	7FJJ	I I b
p&on&Aum	JJ-1	1J4F4	1h7F13	1J6F6	1J F17	1F30	I I b
pu?ur	04-1	146 4Fh6	141 0F1h	10J12F70	14227F76	0F73	I I b
i erbAum	13h-1				171		G
i erbAum	13h-2				hh		G
i EsPAum	270-1	7F74	7F74	7F73	7F74	17F6	I I b
i EsPAum	273-1	7F70	7F73	7F70	7F74	2 F0J	I I b
i An	11J-1	7F07	7F07	7F04	7F01	F44	I I b
i A&snAum	4 -1	1F17	1F74	7F 3	7Fh6	1hF1J	I I b
UrsnAum	20J-1	2F7J	2F76	2F7	2F7	7F44	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-70	Dw&umne&Nsme:9	8J
RFen&psml Re:D :9	My 7. h t	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO:9	2720-7 -14:139119IJ	t s&s. Ae:Nsme:9	726c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&w
VsnsOAum	31-2	7F03	7F07	7F40	7F06	1JF00	I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	Jh-1				171		G
Y&&Aum	Jh-2				hJ		G
ZAnq	66-2	42F7J	42F1J	41F64	41Fh	7F6J	I I b
ZAqonAum	h7-1	7F7h	7F7h	7F17	7F7h	4F 3	I I b
ZAqonAum	h1-1	7F74	7F17	7F11	7F7J	46F 7	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.39	15.85	14.49	15.58	6.27	ppb
Antimony	121-1	0.06	0.07	0.06	0.06	8.54	ppb
Arsenic	75-2	0.11	0.04	0.11	0.09	46.02	ppb
Barium	135-1	9.65	10.47	9.30	9.81	6.11	ppb
Barium	137-1	9.22	10.45	10.18	9.95	6.50	ppb
Beryllium	9-1	0.07	0.08	0.06	0.07	8.31	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.41	0.31	0.29	46.70	ppb
Cadmium	106-1	-1.05	-2.03	-2.52	-1.87		ppb
Cadmium	111-1	-0.01	-0.13	-0.17	-0.10		ppb
Calcium	43-1	5858.17	6419.41	5940.89	6072.82	4.99	ppb
Calcium	44-1	6189.23	6677.72	6426.48	6431.14	3.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.30	0.39	0.36	13.25	ppb
Cobalt	59-2	0.13	0.12	0.11	0.12	8.96	ppb
Copper	63-2	0.43	0.49	0.40	0.44	10.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				101		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	54-2	181.17	183.91	174.42	179.84	2.72	ppb
Iron	56-2	180.12	176.73	175.05	177.30	1.46	ppb
Iron	57-2	178.50	185.35	190.74	184.86	3.32	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.21	0.17	0.18	13.22	ppb

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.17	0.21	0.18	0.19	10.26	ppb
Lead	208-1	0.18	0.20	0.18	0.19	6.24	ppb
Lithium	6-1				99		%
Magnesium	24-2	1498.49	1535.96	1474.13	1502.86	2.07	ppb
Manganese	55-2	12.39	12.41	12.00	12.27	1.91	ppb
Molybdenum	94-1	1.48	1.71	1.44	1.54	9.39	ppb
Molybdenum	95-1	1.66	1.95	1.76	1.79	8.14	ppb
Molybdenum	96-1	1.68	1.73	1.64	1.68	2.52	ppb
Molybdenum	97-1	1.75	1.90	1.64	1.76	7.58	ppb
Molybdenum	98-1	1.69	1.91	1.65	1.75	8.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.15	0.22	0.22	0.20	19.18	ppb
Phosphorus	31-2	-44.37	-25.48	-26.56	-32.14		ppb
Potassium	39-2	610.52	641.46	623.02	625.00	2.49	ppb
Rhodium	103-1				105		%
Rhodium	103-2				102		%
Scandium	45-1				103		%
Scandium	45-2				99		%
Selenium	82-1	0.40	-0.14	0.19	0.15	177.52	ppb
Selenium	77-2	-0.01	-1.05	1.04	-0.01		ppb
Selenium	78-2	0.12	0.82	0.69	0.54	68.98	ppb
Silicon	28-1	1033.91	1106.68	1031.44	1057.34	4.04	ppb
Silver	107-1	0.00	0.00	0.01	0.01	61.79	ppb
Silver	109-1	0.01	0.00	0.00	0.00	290.60	ppb
Sodium	23-2	4197.64	4245.81	4180.79	4208.08	0.80	ppb
Strontium	86-1	34.58	36.83	36.53	35.98	3.39	ppb
Strontium	88-1	34.63	38.07	36.56	36.42	4.73	ppb
Sulfur	34-1	1912.34	2932.00	1770.97	2205.10	28.73	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.03	0.04	0.03	0.03	15.00	ppb
Thallium	205-1	0.06	0.05	0.04	0.05	13.23	ppb
Tin	118-1	0.19	0.17	0.17	0.18	4.57	ppb
Titanium	47-1	0.79	0.64	0.57	0.67	16.89	ppb
Uranium	238-1	0.39	0.45	0.42	0.42	6.45	ppb

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.10	0.12	0.08	0.10	16.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				100		%
Zinc	66-2	9.25	9.39	9.42	9.36	0.94	ppb
Zirconium	90-1	0.04	0.03	0.04	0.04	17.32	ppb
Zirconium	91-1	0.01	0.02	0.03	0.02	30.33	ppb

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-74	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. h p	t Au&on:. aq&or:9	1
t a&:T:i Ane:cqduAeO.9	2720-7 -14:1391 921	t a&a. Ae:Name:9	728c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	UnA&s
clumAnAum	2 -2	2280F32	22 7Fh8	2017F76	2288F1h	7F8	I I b
cn&Amon%	121-1	171Fh3	174F1h	171F48	172F34	1F41	I I b
crsenAq	3-2	42F73	47Fhh	47F10	41F76	2F03	I I b
BarAum	103-1	2026F66	2423F 8	2063F32	20 2F63	2F11	I I b
BarAum	10 -1	204 Fh0	2003F8h	2036F88	2046Fh7	7F43	I I b
Ber%lAum	h-1	36F21	34F 0	33F78	33F04	1F41	I I b
BAsmu&E	27h-1				h		G
BAsmu&E	27h-2				h		G
BromAne	81-1						ql s
RaOmAum	178-1	40F27	43F41	43F20	44F61	2F 3	I I b
RaOmAum	176-1	47F14	0hF11	40F 0	47Fhh	3Fh2	I I b
RaOmAum	111-1	32F34	31F82	30F4h	32F62	1F67	I I b
RalqAum	40-1	2h 2F72	2hh07F42	072h2Fhh	2hhh8F48	7F8h	I I b
RalqAum	44-1	07434F2	07 8F01	0147 F88	07887F13	1F3	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
RElorAne	03-1						ql s
RElorAne	03-2						ql s
REromAum	32-2	213F 4	214F2	21hF42	216F48	1F20	I I b
Robal&	3h-2	386F31	3h2F20	3h0F60	3h7F h	7F64	I I b
RoI I er	60-2	266F21	2 7F 8	26hF30	268F84	7F88	I I b
t %sI rosAum	136-1						ql s
t %sI rosAum	136-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
y olmAum	163-1				h8		G
y olmAum	163-2				177		G
DnOAum	113-1				171		G
DnOAum	113-2				h		G
Don	34-2	1 03F67	1 62F3h	1 2hF84	1 42F68	1F77	I I b
Don	36-2	1612F84	161hF01	1602F24	1621F46	7F61	I I b
Don	3 -2	1368F38	13h1F 8	1380F71	1381F12	7F 4	I I b
Kr%l &on	80-1						ql s
LeaO	276-1	1hF7	18Fh	1hF00	1hF12	7Fh	I I b

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LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-74	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. h p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:1391 9.21	t a&a. Ae:Name:9	728c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	27 -1	1hF67	1hF 2	1hF40	1hF38	7F 4	I I b
LeaO	278-1	1hF20	1hF44	1hF41	1hF06	7F61	I I b
LA&EAum	6-1				h8		G
MagnesAum	24-2	208F14	083F72	046F3	020F24	1F74	I I b
Manganese	33-2	381F86	388F81	3h3F22	388F60	1F14	I I b
Mol%bOenum	h4-1	3Fh3	3Fh4	6F74	3Fh8	7Fh0	I I b
Mol%bOenum	h3-1	6F08	6F6	6F32	6F30	2F20	I I b
Mol%bOenum	h6-1	6F61	6F84	6F44	6F60	0F78	I I b
Mol%bOenum	h -1	F2	6F 0	6F31	6F84	3F 3	I I b
Mol%bOenum	h8-1	6F36	6F 0	6F 3	6F68	1F3	I I b
NeoO%mAum	137-1						ql s
NeoO%mAum	137-2						ql s
NAqkel	67-2	36 F30	3 1F46	387F30	3 0F1	1F16	I I b
PEosI Eorus	01-2	-2hF1h	-0F00	04F3	7F68	4 76F1	I I b
Po&assAum	0h-2	288 F7	2h17Fh6	2h33F2	2h1 F	1F1h	I I b
5 EoOAum	170-1				h8		G
5 EoOAum	170-2				hh		G
pqanOAum	43-1				171		G
pqanOAum	43-2				h8		G
pelenAum	82-1	170F40	171F26	h8F 0	171F14	2F00	I I b
pelenAum	-2	178F13	8 F1h	68Fh7	88F78	22F07	I I b
pelenAum	8-2	17hF41	170F71	177F 3	174F0h	4F07	I I b
pAAqon	28-1	3012F30	3004F81	306hF7	3008F87	7F30	I I b
pAver	17 -1	44F3h	43F73	44F48	44F 1	7F6	I I b
pAver	17h-1	44F 2	43F47	43F14	43F7h	7F 6	I I b
poOAum	20-2	27380F12	27 3Fh1	27334Fh7	2760 Fh8	7F38	I I b
p&ona&Aum	86-1	1 F12	1 F 8	1 4F08	1 6F40	1F72	I I b
p&ona&Aum	88-1	181F1	183F60	187F88	182F36	1F46	I I b
pulfur	04-1	104h0F43	10306F06	103 8Fh1	10306F24	7F02	I I b
i erbAum	13h-1				171		G
i erbAum	13h-2				hh		G
i EallAum	270-1	48F77	4hF1	48F10	48F40	1F02	I I b
i EallAum	273-1	48F08	4hF11	4hF62	4hF70	1F2	I I b
i An	118-1	7F01	7F0h	7F40	7F08	13F1h	I I b
i A&anAum	4 -1	1F41	1F41	1F 1	1F31	11F42	I I b
UranAum	208-1	2F17	2F78	2F72	2F7	1Fh7	I I b

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Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-74	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. h p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139I 9.21	t a&a. Ae:Name:9	728c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
VanaOAum	31-2	338F31	334F24	368F76	367F2	1F26	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8h-1				172		G
Y&&Aum	8h-2				hh		G
ZAnq	66-2	384F13	3h4F 0	3h1F26	3h7F73	7Fh1	I I b
ZAqonAum	h7-1	7F78	7F10	7F78	7F17	2 F28	I I b
ZAqonAum	h1-1	7F7	7F11	7F14	7F11	07F47	I I b

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Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0324-73	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h7F58	t Au&on:Faq&or:9	1
t a&:T:i Ame:cqduAeO:9	2720-7 -14:139279I	t a&aFAe:Name:9	725cC. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	cgM:v onqU	v onqCpt	RnA&s
clumAnAum	2 -2	46U50	45U83	36U71	37U50	5U17	I I b
cn&Amon%	121-1	7U14	7U16	7U18	7U16	12U52	I I b
crsenAq	3-2	7U37	7U4	7U38	7U32	11U44	I I b
BarAum	103-1	46U4	4 U81	46U87	4 U12	1U28	I I b
BarAum	10 -1	48U24	48U45	48U06	48U06	7U23	I I b
Ber%IAum	5-1	7U14	7U10	7U16	7U13	17U07	I I b
BAsmu&E	275-1				5		G
BAsmu&E	275-2				5		G
BromAne	81-1						ql s
v aOmAum	178-1	7U01	7U16	7U41	7U07	42U63	I I b
v aOmAum	176-1	-0U77	-1U4	-1U01	-2U72		I I b
v aOmAum	111-1	-7U15	-7U75	-7U7	-7U12		I I b
v alqAum	40-1	07016U00	255 3U48	25637U40	25587U3	1U11	I I b
v alqAum	44-1	07 25U6	07005U32	0708 U6	07483U63	7U7	I I b
v arbon	12-1						ql s
v arbon	12-2						ql s
v ElorAne	03-1						ql s
v ElorAne	03-2						ql s
v EromAum	32-2	2U04	2U47	2U44	2U05	2U77	I I b
v obal&	35-2	7U4	7U68	7U2	7U1	4U76	I I b
v ol I er	60-2	7U57	1U77	1U28	1U76	18U32	I I b
t %sI rosAum	136-1						ql s
t %sI rosAum	136-2						ql s
. rbAum	164-1						ql s
. rbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
h olmAum	163-1				171		G
h olmAum	163-2				55		G
DnOAum	113-1				171		G
DnOAum	113-2				5		G
Don	34-2	132U53	167U8	165U62	161U13	3U1	I I b
Don	36-2	144U67	137U7	161U4	132U03	3U7	I I b
Don	3 -2	153U16	18 U3	155U6	154U16	0U1	I I b
Kr%I &on	80-1						ql s
LeaO	276-1	7U48	7U43	7U43	7U46	4U37	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0324-73	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h7F58	t Au&on:Faq&or:9	1
t a&:T:i Ame:c qduAeO:9	2720-7 -14:139279I	t a&aFAe:Name:9	725c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gM:v onqU	v onqCpt	RnA&s
LeaO	27 -1	7U46	7U42	7U42	7U40	3U83	I I b
LeaO	278-1	7U43	7U44	7U44	7U43	1U00	I I b
LA&EAum	6-1				58		G
y aMhesAum	24-2	104U01	150U87	103U1	134U42	7U48	I I b
y anManese	33-2	38U10	38U8	35U75	38U6	7U84	I I b
y ol%bOenum	54-1	3U66	3U84	6U13	3U88	4U24	I I b
y ol%bOenum	53-1	6U45	6U36	6U37	6U32	7U38	I I b
y ol%bOenum	56-1	6U81	6U87	6U5	6U87	7U11	I I b
y ol%bOenum	5 -1	U70	6U3	U02	U70	4U71	I I b
y ol%bOenum	58-1	6U68	6U50	6U56	6U86	2U27	I I b
NeoO%mAum	137-1						ql s
NeoO%mAum	137-2						ql s
NAqkel	67-2	1U03	1U01	1U46	1U0	3U1	I I b
PEosI Eorus	01-2	- U35	-28U54	-0U36	-10U06		I I b
Po&assAum	05-2	2 88U26	2830U73	2873U11	2813U4	1U15	I I b
CEoOAum	170-1				55		G
CEoOAum	170-2				58		G
pqanOAum	43-1				177		G
pqanOAum	43-2				58		G
pelenAum	82-1	7U57	7U14	7U0	7U4	80U53	I I b
pelenAum	-2	-1U73	-1U73	7U72	-7U7		I I b
pelenAum	8-2	2U22	7U53	1U32	1U36	47U1	I I b
pAAqon	28-1	3013U88	3035U21	321 U21	325 U44	1U0	I I b
pAger	17 -1	7U71	7U71	7U70	7U72	51U34	I I b
pAger	175-1	7U77	7U71	7U77	7U77	83U21	I I b
poOAum	20-2	27366U5	27815U73	27627U63	27668U85	7U64	I I b
p&ona&Aum	86-1	1 1U41	1 U22	1 8U46	1 3U7	2U14	I I b
p&ona&Aum	88-1	187U33	180U32	183U7	180U74	1U26	I I b
pulfur	04-1	10818U28	10433U27	10170U84	10435U11	2U63	I I b
i erbAum	135-1				171		G
i erbAum	135-2				58		G
i EallAum	270-1	7U73	7U74	7U74	7U74	16U32	I I b
i EallAum	273-1	7U76	7U74	7U74	7U73	16U23	I I b
i A	118-1	0U25	0U03	0U2	0U07	1U2	I I b
i A&anAum	4 -1	7U50	7U5	1U22	1U74	14U87	I I b
RranAum	208-1	2U76	1U55	2U78	2U74	2U01	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-73	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h 7F58	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2720-7 -14:139279I	t a&aFAe:Name:9	725c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	31-2	7U37	7U48	7U31	7U37	0U45	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	85-1				172		G
Y&&Aum	85-2				58		G
ZAnq	66-2	43U7	43U51	4 U22	46U28	1U	I I b
ZAqonAum	57-1	7U7	7U7	7U78	7U7	8U38	I I b
ZAqonAum	51-1	7U78	7U78	7U17	7U75	14U47	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-76	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. hh	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2720-7 -14:139209I	t a&a. Ae:Name:9	707c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	UnA&s
clumAnAum	2 -2	42F62	46F06	44F01	44F40	4F21	I I b
cn&Amon%	121-1	7F13	7F16	7F16	7F16	0F2	I I b
crsenAq	3-2	7F08	7F0h	7F42	7F0h	3F01	I I b
BarAum	103-1	43F78	46F62	43F71	43F3	1Fhh	I I b
BarAum	10 -1	43F12	4 F07	46F02	46F24	2F06	I I b
Ber%IAum	h-1	7F14	7F10	7F13	7F14	6F3	I I b
BAsmu&E	27h-1				hh		G
BAsmu&E	27h-2				177		G
BromAne	81-1						ql s
RaOmAum	178-1	7F2	7F27	7F02	7F2	20F1	I I b
RaOmAum	176-1	-1Fh2	-2F7	-2F2	-2F7h		I I b
RaOmAum	111-1	-7F10	-7F13	-7F1	-7F13		I I b
RalqAum	40-1	0767 F88	0780hF43	07h77F13	07 82F4h	7F37	I I b
RalqAum	44-1	01634F76	07h64F74	022 2F31	01607F27	2F7	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
REIorAne	03-1						ql s
REIorAne	03-2						ql s
REromAum	32-2	7F42	7F34	7F46	7F48	12F21	I I b
Robal&	3h-2	7F38	7F34	7F62	7F38	6F34	I I b
RoI I er	60-2	7F 1	7F86	7F80	7F87	hFh7	I I b
t %sI rosAum	136-1						ql s
t %sI rosAum	136-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
y olmAum	163-1				172		G
y olmAum	163-2				172		G
DnOAum	113-1				170		G
DnOAum	113-2				172		G
Don	34-2	60F4h	3F87	2F74	7F44	8Fh6	I I b
Don	36-2	64F84	2F40	7F72	6hF17	3F61	I I b
Don	3 -2	h8F 2	120F18	170F21	178F0	12F71	I I b
Kr%I &on	80-1						ql s
LeaO	276-1	7F21	7F22	7F23	7F20	hF26	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-76	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. hh	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2720-7 -14:139209I	t a&a. Ae:Name:9	707c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	27 -1	7F20	7F24	7F23	7F24	4F71	I I b
LeaO	278-1	7F20	7F20	7F24	7F20	2Fh0	I I b
LA&EAum	6-1				h8		G
MagnesAum	24-2	372F3h	818 F62	880Fh6	838F76	4F0	I I b
Manganese	33-2	37F42	34Fh6	30F80	30F7	4F46	I I b
Mol%bOenum	h4-1	8F13	8F01	8F74	8F1	1F66	I I b
Mol%bOenum	h3-1	6F60	6F 4	6F31	6F60	1F6h	I I b
Mol%bOenum	h6-1	6F83	6F83	6F3h	6F 6	2F20	I I b
Mol%bOenum	h -1	6F82	F76	6F3h	6F82	0F47	I I b
Mol%bOenum	h8-1	6F 7	6F 1	6F60	6F68	7F6	I I b
NeoO%mAum	137-1						ql s
NeoO%mAum	137-2						ql s
NAqkel	67-2	7F36	7F67	7F	7F64	1 Fh7	I I b
PEosI Eorus	01-2	-22F27	4F7h	-02F 0	-16Fh3		I I b
Po&assAum	0h-2	24h4F17	2 1F11	2 4hF2	26 1F4h	3F	I I b
5 EoOAum	170-1				177		G
5 EoOAum	170-2				170		G
pqanOAum	43-1				171		G
pqanOAum	43-2				171		G
pelenAum	82-1	7F 4	1F73	1F18	7Fh	22F 7	I I b
pelenAum	-2	-1F73	-1F73	7F77	-7F 7		I I b
pelenAum	8-2	1F11	7F61	7F81	7F84	2hF40	I I b
pAAqon	28-1	312 F40	3263F7	31h6F14	31h6F21	1F02	I I b
pAver	17 -1	7F77	7F71	7F77	7F71	61F20	I I b
pAver	17h-1	7F77	-7F71	7F77	7F77		I I b
poOAum	20-2	27031F37	22071F26	2138hFh0	21414F20	4F61	I I b
p&ona&um	86-1	188F18	1h1F01	18 F84	18hF11	1F71	I I b
p&ona&um	88-1	1h3F07	1hhF87	1h4F12	1h6F41	1F30	I I b
pulfur	04-1	16468F73	16603F68	16077F87	16468F18	1F72	I I b
i erbAum	13h-1				172		G
i erbAum	13h-2				174		G
i EallAum	270-1	7F70	7F77	7F74	7F70	0F80	I I b
i EallAum	273-1	7F74	7F72	7F70	7F70	03F67	I I b
i An	118-1	7F42	7F42	7F48	7F44	8F68	I I b
i A&anAum	4 -1	1F20	7Fhh	1F12	1F11	17F4	I I b
UranAum	208-1	2F1	2F1h	2F1h	2F18	7F61	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-76	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. hh	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139209I	t a&a. Ae:Name:9	707c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	31-2	7F03	7F02	7F03	7F04	4Fh6	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8h-1				172		G
Y&&Aum	8h-2				170		G
ZAnq	66-2	02F68	04F1h	00F42	00F40	2F26	I I b
ZAqonAum	h7-1	1F31	1F36	1F4	1F31	0F7h	I I b
ZAqonAum	h1-1	1F01	1F44	1F40	1F0h	3F0h	I I b

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Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0324-7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. c 7	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2720-7 -14:139269 13	t a&a. Ae:Name:9	701c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
c lumAnAum	2 -2	3F33	3F63	3F80	3F68	2F44	I I b
c n&Amonh	121-1	7F77	7F71	7F77	7F77	331F26	I I b
c rsenAq	3-2	-7F71	-7F71	-7F72	-7F71		I I b
BarAum	103-1	7F74	7F72	7F72	7F70	42F63	I I b
BarAum	10 -1	7F71	7F70	7F77	7F72	17 F64	I I b
BerhlIAum	%1	7F72	7F72	7F71	7F72	13F10	I I b
BAsmu&E	27%1				%6		G
BAsmu&E	27%2				%6		G
BromAne	81-1						ql s
RaOmAum	178-1	7F1	7F28	7F26	7F24	20F66	I I b
RaOmAum	176-1	-1F88	-1F4	-7F 7	-1F03		I I b
RaOmAum	111-1	-7F13	-7F11	-7F73	-7F17		I I b
RalqAum	40-1	2F01	7F%3	-7F7%	1F76	114F71	I I b
RalqAum	44-1	32F8	44F26	40F17	46F 4	11F42	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
REIorAne	03-1						ql s
REIorAne	03-2						ql s
REromAum	32-2	7F7%	-7F70	7F7	7F74	14 F11	I I b
Robal&	3%2	-7F71	7F77	-7F71	-7F71		I I b
RoI I er	60-2	7F10	7F16	7F7%	7F10	23F	I I b
t hsI rosAum	136-1						ql s
t hsI rosAum	136-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
y olmAum	163-1				177		G
y olmAum	163-2				%		G
DnOAum	113-1				177		G
DnOAum	113-2				%		G
Don	34-2	2F20	7F31	0F73	1F%0	6 F26	I I b
Don	36-2	7F6%	7F88	1F72	7F86	1%F71	I I b
Don	3 -2	7F37	-1F2	7F23	-7F1		I I b
KrhI &on	80-1						ql s
LeaO	276-1	7F71	7F77	7F71	7F71	24F26	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. c 7	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2720-7 -14:139269 13	t a&a. Ae:Name:9	701c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	27 -1	7F71	7F77	7F71	7F71	67F27	I I b
LeaO	278-1	7F71	7F77	7F71	7F71	42F4%	I I b
LA&EAum	6-1				%6		G
MagnesAum	24-2	-7F00	-7F76	1F17	7F24	01 F3	I I b
Manganese	33-2	7F72	-7F74	-7F71	-7F71		I I b
MolhbOenum	%4-1	7F72	-7F71	-7F71	7F77		I I b
MolhbOenum	%3-1	7F71	7F71	7F77	7F71	8%F8	I I b
MolhbOenum	%6-1	7F77	7F71	-7F71	7F77	623F86	I I b
MolhbOenum	% -1	7F70	7F70	7F77	7F72	87F 8	I I b
MolhbOenum	%8-1	7F77	7F77	-7F71	7F77		I I b
NeoOhmAum	137-1						ql s
NeoOhmAum	137-2						ql s
NAqkel	67-2	7F72	7F71	7F71	7F71	%F08	I I b
PEosI Eorus	01-2	-24F0	-40F26	-20F40	-07F03		I I b
Po&assAum	0%2	40F%2	0%F1%	44F11	42F41	6F3	I I b
5 EoOAum	170-1				%%		G
5 EoOAum	170-2				%8		G
pqanOAum	43-1				%%		G
pqanOAum	43-2				%3		G
pelenAum	82-1	-7F76	-7F48	-7F01	-7F28		I I b
pelenAum	-2	-1F73	-1F73	-1F73	-1F73		I I b
pelenAum	8-2	7F33	-7F17	1F21	7F33	118F70	I I b
pAAqon	28-1	%F34	3F%1	4F80	6F 6	06F33	I I b
pAver	17 -1	7F77	7F77	7F71	7F77	102F 0	I I b
pAver	17%1	7F77	7F71	7F77	7F77	07 F00	I I b
poOAum	20-2	6 F3	63F27	3F%2	6%F3	8F7%	I I b
p&ona&um	86-1	7F73	7F70	7F77	7F72	176F 1	I I b
p&ona&um	88-1	7F72	7F72	7F77	7F71	174F43	I I b
pulfur	04-1	-14F 3	- 22F67	-404F72	-0%7F46		I I b
i erbAum	13%1				%8		G
i erbAum	13%2				%6		G
i EallAum	270-1	7F71	7F70	7F77	7F71	11 F26	I I b
i EallAum	273-1	7F71	7F71	7F70	7F72	4 F31	I I b
i An	118-1	-7F71	-7F71	-7F72	-7F71		I I b
i A&anAum	4 -1	7F14	7F71	7F17	7F78	6F43	I I b
UranAum	208-1	7F77	7F77	7F77	7F77		I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. c 7	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139269 13	t a&a. Ae:Name:9	701c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	31-2	-7F71	7F77	7F77	7F77		I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8%1				177		G
Y&&Aum	8%2				%6		G
ZAnq	66-2	-7F16	-7F22	-7F70	-7F14		I I b
ZAqonAum	%7-1	7F77	7F71	-7F71	7F77		I I b
ZAqonAum	%1-1	-7F70	-7F71	7F71	-7F71		I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	5 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	SS03-3	& FIIbe . pi:mI e p:J	ua
SNd. i:DI e t Nd:&T :J	SS03-3	TdNiqC. :UI OCI:J	1
TI ip:A:cqe p:dOobdqpn:J	232-73 714:19J4aJ3s	TI il UdNd:mI e p:J	3-4SS0Fn

ul II e pipI	y I PP	SC. v pt 1	SC. v pt 2	SC. v pt -	dgMFSC. OF	SC. Ov DT	R. qP
dINe q dpe	2 72	93- - aF4s	93323Fas	4s326F-3	4s s9F2-	1F-	t t r
d. iqe C. h	12171	4ssF6s	91 F a	93 F-2	93aF26	1F s	t t r
dIPp. qO	972	916Fa-	921F1s	92-F32	923F-9	3F61	t t r
BI dpe	1-971	2931F36	26-aF 4	2961F2-	296 F31	2F6s	t t r
BI dpe	1- 71	24s-F a	26- - F3	29aaF-1	29 1F 2	2F	t t r
BpIhNNpe	s71	4asF 6	4a4F4a	4asF41	4a Faa	3F63	t t r
BqPe bi%	23s71				s6		E
BqPe bi%	23s72				s3		E
BICe q p	a171						OI P
SI ne dpe	13a71	91sFs4	94 Fa3	944F33	9- F29	2Fa1	t t r
SI ne dpe	13671	9- - F 3	949F-9	94aF1a	942F41	1F41	t t r
SI ne dpe	11171	9- F16	992Fa6	9-sF-4	94-F12	1F9	t t r
SI NDpe	4-71	24 a-9F 9	2913a4Fs1	291 aaF1s	2932-6F2a	3Fa4	t t r
SI NDpe	4471	249332F46	24-9s4F14	293-9-F4a	246-16F6s	1F49	t t r
SI Ir C.	1271						OI P
SI Ir C.	1272						OI P
S%NDIq p	-971						OI P
S%NDIq p	-972						OI P
S%ICe dpe	9272	4 9Fs-	49aF99	4 1F69	46aF 1	1Fs-	t t r
SOr I NI	9s72	4s1F34	49sF32	462Fs6	4 1F31	-F 1	t t r
SOt t pI	6-72	4s43Fs4	4a39F24	4 92F3	4a-2F 9	2F32	t t r
ThPt IOPdpe	19671						OI P
ThPt IOPdpe	19672						OI P
GIr dpe	16471						OI P
GIr dpe	16472						OI P
HI nONqI dpe	16371						OI P
HI nONqI dpe	16372						OI P
KONe dpe	16971				134		E
KONe dpe	16972				s		E
& ndpe	11971				131		E
& ndpe	11972				s2		E
&C.	9472	12 23-F13	12-6asF9-	12614sF6s	1296a3F	1F4-	t t r
&C.	9672	12- 46F33	121 a4F42	123a6sF2a	1221- - F24	1F23	t t r
&C.	9 72	126-2sF	129 42F66	126-1 Fs2	1261-3F12	3F2	t t r
kIht iC.	a-71						OI P
LpI n	23671	2924F3	29- Fs2	29-1F6s	29-1F22	3F2	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	5 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	SS03-3	& FIIbe . pi:mI e p:J	ua
SNp. i:DI e t Np:&T :J	SS03-3	TdNiqC. :UI OCI:J	1
TI ip:A:coe p:dOobdpn:J	232-73 714:19J4aJ3s	TI il UdNp:mI e p:J	3-4SS0Fn

ul II e pipI	y I PP	SC. v pt 1	SC. v pt 2	SC. v pt -	dgMFSC. OF	SC. OV DT	R. qP
LpI n	23 71	2943Fa3	261sFaa	299-F24	29 1F-1	1F69	t t r
LpI n	23a71	2993F--	2619F	29-sF3s	296aF43	1F61	t t r
Lq%dpe	671				s		E
y I M pPdpe	2472	24a-a-F9-	2469-2F9a	2416 -F41	24992sFa4	1F41	t t r
y I . M . pPp	9972	4aa2F69	4 aF69	4aa1F-9	4a4 F99	1F2-	t t r
y CNr np. be	s471	4as F3	9193F4a	9331Fa9	9316F4	2F94	t t r
y CNr np. be	s971	4 a2F9-	91 -F--	4s6aF-	4s 4Fa6	-Fs-	t t r
y CNr np. be	s671	4a64F12	9163F-a	4s 3F6-	4ssaF-a	-F33	t t r
y CNr np. be	s 71	4s2sF4s	9131F-6	4s6 F21	4sssF-9	1Fa1	t t r
y CNr np. be	sa71	4s2-F9	9119F23	4s39F-6	4sa1F-a	2F--	t t r
mpOnhe dpe	19371						OI P
mpOnhe dpe	19372						OI P
mqOr pN	6372	4aaF91	4 -Fs	46sF44	4 F-1	2F3s	t t r
u%OPt %OIbP	-172	s 6sFs2	s61-Fa1	s99-F13	s649F61	1F16	t t r
uOI PPdpe	-s72	122 -6F 2	1226-sF44	12244sF-s	12263aF92	3F12	t t r
v %Ondpe	13-71				s		E
v %Ondpe	13-72				s1		E
DOI . ndpe	4971				13-		E
DOI . ndpe	4972				s9		E
DpNp. dpe	a271	4a4Fa3	93-F-s	4s3Faa	4s-F32	1Fs2	t t r
DpNp. dpe	72	494F63	466Fa4	931F94	4 4F--	9F1-	t t r
DpNp. dpe	a72	4 F9s	4saFa4	4a3Fs4	4a9F s	2F-9	t t r
DqNDC.	2a71	49-F32	4aaFs9	4aaF-a	4 6F a	4F-2	t t r
DqNgpI	13 71	4a6F39	4s4Fa	4s2F4a	4s1F1-	3Fs-	t t r
DqNgpI	13s71	4a2F9a	93-Fa9	4s F-9	4s4F9s	2F23	t t r
DOndpe	2-72	24s39aFs	24 122Fa-	24264 F4a	2462 6F42	1F-4	t t r
DiIC. idpe	a671	121 3F4a	1269 F3-	1264 F1s	124s1F96	2F2-	t t r
DiIC. idpe	aa71	12222Fa	126a F	12944Fs-	124a9F1s	1Fs1	t t r
DbNbI	-471	s9-4F66	sa 9F1	s - F-9	s 19F-	1F 6	t t r
cpIr dpe	19s71				134		E
cpIr dpe	19s72				s6		E
c%NNpe	23-71	936F39	91 F6-	919F34	912Fs1	1F1a	t t r
c%NNpe	23971	913Fa9	919Fa3	93 F63	911F42	3Fa1	t t r
cq	11a71	4s F11	932F2-	934F-3	931F21	3F 4	t t r
cqI . dpe	4 71	4s -Fs2	9329F91	93s3F4-	932sFs9	1F16	t t r
RII . dpe	2-a71	921F1a	9-3F3-	916F31	922F43	1F-6	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	5 t pII iCl:J	wI P8 I N
LI r :DI e t Nb:&T :J	SS03-3	& FIIbe . pi:mI e p:J	u a
SNp. i:DI e t Nb:&T :J	SS03-3	TdNiqC. :UI OCl:J	1
TI ip:A:cqe p:dOobdpn:J	232-73 714:19J4aJ3s	TI il UdNb:mI e p:J	3-4SS0Fm

ul II e pipl	y I PP	SC. v pt 1	SC. v pt 2	SC. v pt -	dgMF:SC. OF	SC. Ov DT	R. qP
0I . I ndpe	9172	4saF	4a F32	4aaF4a	4s1F42	1F-3	t t r
YiipIr dpe	1 271						OI P
YiipIr dpe	1 272						OI P
YiipIr dpe	1 671						OI P
YiipIr dpe	1 672						OI P
YiiIdpe	as71				139		E
YiiIdpe	as72				s9		E
ZqO	6672	4s2-F13	4a94Fa	4a36F21	4a61F-s	1F21	t t r
ZqOC. dpe	s371	93-Fa9	91-F42	933F3	939F a	1F-6	t t r
ZqOC. dpe	s171	4 -F-1	931F61	4a9Fs2	4a6Fs4	2Fs1	t t r

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB030	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB030	t Au&n5 Faq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9 29 13	t a&aFAe Name 9	03: SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
clumA5Aum	27-2	3.10	4.70	4.: 8	4.13	21.: y	I I b
c5&mn5h	121-1	0.2:	0.26	0.21	0.24	10.8:	I I b
crse5Aq	7: -2	0.06	0.03	0.06	0.0:	37.32	I I b
BarAum	13: -1	1.07	0.68	0.20	0.6:	67.22	I I b
BarAum	137-1	0.8:	0.47	0.34	0.: 6	47.30	I I b
BerhlIAum	y-1	0.18	0.13	0.0:	0.12	: : .11	I I b
BAsmu&%	20y-1				101		E
BAsmu&%	20y-2				y7		E
BrnmA5e	81-1						ql s
SaOmAum	108-1	0.: 7	0.: :	0.27	0.46	3: .y7	I I b
SaOmAum	106-1	-3.8:	-2.40	-2.y0	-3.0:		I I b
SaOmAum	111-1	-0.11	-0.07	-0.16	-0.11		I I b
SalqAum	43-1	61.47	41.: y	22.06	41.71	47.24	I I b
SalqAum	44-1	121.: 3	86.1:	: : .68	87.7y	37.: 4	I I b
Sarbn5	12-1						ql s
Sarbn5	12-2						ql s
S%nrA5e	3: -1						ql s
S%nrA5e	3: -2						ql s
S%nmAum	: 2-2	0.06	0.14	-0.03	0.06	148.42	I I b
Snbal&	: y-2	0.03	0.04	0.04	0.04	22.63	I I b
SnI I er	63-2	0.: 6	0.7y	0.7:	0.70	17.28	I I b
t hsI rnsAum	1: 6-1						ql s
t hsI rnsAum	1: 6-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
GaOnIA5Aum	160-1						ql s
GaOnIA5Aum	160-2						ql s
HnImAum	16: -1				102		E
HnImAum	16: -2				101		E
D5OAum	11: -1				104		E
D5OAum	11: -2				yy		E
Dn5	: 4-2	6.08	11.28	12.36	y.y1	33.87	I I b
Dn5	: 6-2	7.62	11.41	11.18	10.07	21.08	I I b
Dn5	: 7-2	7.66	11.48	11.83	10.32	22.42	I I b
Krhl &n5	83-1						ql s
LeaO	206-1	0.78	0.: 3	0.1y	0.: 0	: 8.73	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB030	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB030	t Au&n5 Faq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9 29 13	t a&aFAe Name 9	03: SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	c vg. Sn5q.	Sn5qRpt	U5A&s
LeaO	207-1	0.63	0.71	0.2:	0.: 3	4: .y3	I I b
LeaO	208-1	0.70	0.67	0.23	0.: 3	48.83	I I b
LA%Aum	6-1				y7		E
Mag5esAum	24-2	13.6y	2: .06	22.06	20.27	2y.06	I I b
Ma5ga5ese	: : -2	0.23	0.40	0.43	0.3:	31.20	I I b
MnlhbOe5um	y4-1	2.0:	1.47	0.74	1.42	4: .yy	I I b
MnlhbOe5um	y: -1	2.48	1.4:	0.62	1.: 1	61.48	I I b
MnlhbOe5um	y6-1	2.04	1.43	0.7y	1.42	44.0:	I I b
MnlhbOe5um	y7-1	3.1y	1.27	0.81	1.76	71.70	I I b
MnlhbOe5um	y8-1	1.4:	1.33	0.84	1.20	26.7y	I I b
NenOhmAum	1: 0-1						ql s
NenOhmAum	1: 0-2						ql s
NAqkel	60-2	0.00	0.02	0.00	0.01	128.6y	I I b
P%nsI %nrus	31-2	-36.2:	-36.: 4	-7.84	-26.88		I I b
Pn&assAum	3y-2	88.7y	86.1:	73.4:	82.80	y.y1	I I b
R%nOAum	103-1				102		E
R%nOAum	103-2				101		E
pqa5OAum	4: -1				102		E
pqa5OAum	4: -2				y8		E
pele5Aum	82-1	-0.07	-0.01	-0.23	-0.10		I I b
pele5Aum	77-2	0.00	0.02	-1.0:	-0.34		I I b
pele5Aum	78-2	0.04	0.37	0.40	0.27	73.61	I I b
pAqn5	28-1	7.67	7.: 3	-0.y6	4.7:	104.12	I I b
pAver	107-1	0.02	0.01	0.02	0.02	42.83	I I b
pAver	10y-1	0.02	0.01	0.02	0.01	43.: 7	I I b
pnOAum	23-2	128.81	13y.76	128.yy	132.: 2	4.73	I I b
p&n5&Aum	86-1	3.66	3.72	0.y8	2.7y	: 6.26	I I b
p&n5&Aum	88-1	4.31	2.y0	1.0y	2.77	: 8.26	I I b
pulfur	34-1	37y.08	446.30	-y66.: 2	-47.0:		I I b
i erbAum	1: y-1				101		E
i erbAum	1: y-2				yy		E
i %allAum	203-1	0.21	0.22	0.12	0.18	31.y3	I I b
i %allAum	20: -1	0.: 6	0.1y	0.12	0.2y	81.6y	I I b
i A5	118-1	0.26	0.16	0.01	0.14	88.y7	I I b
i A&a5Aum	47-1	1.47	1.36	0.6:	1.16	38.40	I I b
Ura5Aum	238-1	0.10	0.13	0.03	0.0y	: 6.10	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB030	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB030	t Au&n5 Faq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9 29 13	t a&aFAe Name 9	03: SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
Va5aOAum	: 1-2	0.00	0.0:	0.03	0.03	104.11	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	8y-1				10:		E
Y&&Aum	8y-2				yy		E
ZA5q	66-2	0.33	0.41	0.38	0.37	10.30	I I b
ZAqn5Aum	y0-1	0.1y	0.11	0.08	0.13	4: .32	I I b
ZAqn5Aum	y1-1	0.13	0.0y	0.0:	0.0y	42.: 8	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJNumberJa	LB126466	o l erw&arJa	swl Pw8
LwbJpwml &eJD JaJ	SB103- 74BL	D5l &um5e&NwmeJa	S-
C8&e5&pwml &eJD JaJ	SBp- 74	t A&u&h5JJwq&arJa	1
t w&eJTJ AmeJcqduAeQJa	2 23: 9:14J10a00a10	t w&WJA&eJNwmeJa	36CCB. FO

Swrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 3	cgMFCn5qF	Cn5qv pt	R5A&
c&umA5Aum	29:2	F42	F13	F91	F42	67F- 6	l l b
c5&Amn5h	121:1	F 3	F 6	F 9	F 0	37F7	l l b
crl e5Aq	90:2	F 1	F 1	: F 2	F	1- - - F- 7	l l b
BwrAum	130:1	F 7	F 0	F 4	F 6	43F 1	l l b
BwrAum	139:1	F 6	F 1	F 0	F 4	64F 7	l l b
Berh8Aum	7:1	F 0	F 3	F 3	F 4	39F31	l l b
BAmu&%	2 7:1				1		E
BAmu&%	2 7:2				77		E
BrnmA5e	- 1:1						ql l
CwOmAum	1 - :1	F 9	F 3	F11	F 9	04F43	l l b
CwOmAum	1 6:1	F6	F- 1	:1F26	F 0	2347F- 1	l l b
CwOmAum	111:1	F 4	F 7	: F1	F 1	- 71F02	l l b
Cw&qAum	43:1	3F02	0F43	2F02	3F- 2	3- F07	l l b
Cw&qAum	44:1	4 F3	32F1-	37F- -	39F40	12F21	l l b
Cwrbn5	12:1						ql l
Cwrbn5	12:2						ql l
C%&nrA5e	30:1						ql l
C%&nrA5e	30:2						ql l
C%knmAum	02:2	F 7	: F 4	F	F 1	499F90	l l b
Cnbw&&	07:2	F	F	: F 1	F		l l b
CnI l er	63:2	F29	F17	F23	F23	19F 2	l l b
t hl l rnl Aum	106:1						ql l
t hl l rnl Aum	106:2						ql l
. rbAum	164:1						ql l
. rbAum	164:2						ql l
GwOn&5Aum	16 :1						ql l
GwOn&5Aum	16 :2						ql l
Hn&mAum	160:1				1 1		E
Hn&mAum	160:2				1		E
D5OAum	110:1				1 0		E
D5OAum	110:2				77		E
Dn5	04:2	F- 9	1F 6	1F- 2	1F20	4 F 1	l l b
Dn5	06:2	1F37	1F	F09	F77	41F92	l l b
Dn5	09:2	2F2-	2F24	F0	1F69	6 F00	l l b
Krhl &n5	- 3:1						ql l
LewO	2 6:1	F 4	F -	F 4	F 0	3- F 4	l l b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJNumberJa	LB126466	o l erw&arJa	swl Pw8
LwbJpwml &eJD JaJ	SB103- 74BL	D5l &um5e&NwmeJa	S-
C8&e5&pwml &eJD JaJ	SBp- 74	t A&u&N5JJwq&arJa	1
t w&eJTJ AmeJcqduAeQJa	2 23: 9:14J10a00a10	t w&WJA&eJNwmeJa	36CCB. FO

Swrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 3	cgMFCn5qF	Cn5qv pt	R5A&
LewO	2 9:1	F 7	F 0	F 6	F 9	34F32	I I b
LewO	2 - :1	F 9	F 9	F 6	F 9	1 F02	I I b
LA%Aum	6:1				77		E
y wW5el Aum	24:2	1F29	2F3	1F-4	1F-	2- F62	I I b
y w5Mw5el e	00:2	F 3	F 9	F 6	F 0	37F60	I I b
y n8bOe5um	74:1	F22	F11	F 7	F14	47F 6	I I b
y n8bOe5um	70:1	F1	F1	F -	F 7	12F34	I I b
y n8bOe5um	76:1	F12	F11	F1	F11	6F6-	I I b
y n8bOe5um	79:1	F14	F1	F -	F11	29F-2	I I b
y n8bOe5um	7- :1	F13	F14	F11	F12	12F6	I I b
NenOhmAum	10 :1						qI I
NenOhmAum	10 :2						qI I
NAqke8	6 :2	F	F	: F 3	: F 1		I I b
S%nI I %nrul	31:2	:21F64	:33F-2	:22F17	:20F- -		I I b
Sn&wI Aum	37:2	02F03	03F27	64F00	06F97	11F-0	I I b
v %nOAum	1 3:1				1 3		E
v %nOAum	1 3:2				1		E
pqw5OAum	40:1				1 3		E
pqw5OAum	40:2				77		E
pe&e5Aum	- 2:1	F2	: F12	: F64	: F1-		I I b
pe&e5Aum	99:2	F 1	:1F 0	F	: F30		I I b
pe&e5Aum	9- :2	: F14	: F26	F-	F13	432F60	I I b
pA&qn5	2- :1	4F01	1F93	2F90	3F	49F 1	I I b
pA&ger	1 9:1	F 3	F 2	F 2	F 2	2 F -	I I b
pA&ger	1 7:1	F 2	F 3	F 3	F 3	23F 2	I I b
pnOAum	23:2	79F93	- 0F 2	7 F00	71F1	9F	I I b
p&n5&Aum	- 6:1	F2-	F17	F -	F1-	03F-1	I I b
p&n5&Aum	- - :1	F17	F1-	F11	F16	29F-9	I I b
pu&ur	34:1	303F 1	:207F10	2- 2F-4	120F09	266F-	I I b
i erbAum	107:1				1 3		E
i erbAum	107:2				1		E
i %w8Aum	2 3:1	F 9	F1	F 0	F -	30F 7	I I b
i %w8Aum	2 0:1	F 6	F -	F 0	F 6	17F12	I I b
i A5	11- :1	F 1	: F 2	: F 1	: F 1		I I b
i A&w5Aum	49:1	F11	F11	F 7	F1	12F 2	I I b
Rrw5Aum	23- :1	F 1	F	F	F	33F27	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJNumberJa	LB126466	o l erw&arJa	swl Pw8
LwbJpwml &eJD JaJ	SB103- 74BL	D5l &um5e&NwmeJa	S-
C8Ae5&pwml &eJD JaJ	SBp - 74	t A&u&A5JJwq&arJa	1
t w&eJTJ AmeJcqduAeQJa	2 23: 9:14J10a00a10	t w&WJA&eJNwmeJa	36CCB. FO

Swrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 3	cgMFCn5qF	Cn5qv pt	R5A&
Vw5wOAum	01:2	: F 1	F	: F 1	: F 1		l l b
Y&erbAum	192:1						ql l
Y&erbAum	192:2						ql l
Y&erbAum	196:1						ql l
Y&erbAum	196:2						ql l
Y&&Aum	- 7:1				1 3		E
Y&&Aum	- 7:2				1		E
ZA5q	66:2	F 2	: F1	F	: F 3		l l b
ZAqn5Aum	7 :1	F 1	F 1	F 1	F 1	36F 2	l l b
ZAqn5Aum	71:1	F 1	F 2	F 4	F 2	0- F3	l l b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBaumb erpas	LB126466	o l r pl &npas	wl P8 l N
Ll ea l b l NaD aaa	SB103-74B	D5P&pmb 5r &ul b r as	S-
CNA5&a l b l NaD aaa	LC -74	t AN&A5aJl q&npas	1
t l &aTai Ao r ac qdmAr Cas	2:239 J914a10s0-s1-	t l &UANaul b r as	:3JLC . FO

Sl pl b r &p	y l PP	Cn5v r l 1	Cn5v r l 2	Cn5v r l 3	cgMFaCn5qF	Cn5qv t	R5AP
cNmb A5Amb	2J92	33F21	32F-1	33F37	33F14	:F7:	l l e
c5&b n5h	12191	3F.4	3F.4	3F17	3F.7	2FJ1	l l e
cpPr 5Aq	J092	1FJ:	1F42	1F61	1F0-	7F.0	l l e
Bl pAmb	13091	10F.6	14F77	10FJ7	10F2-	2F71	l l e
Bl pAmb	13J91	10F.0	10FJ4	10F-6	10F00	2F-2	l l e
Br phNAmb	791	1F06	1F0-	1F01	1F00	2F30	l l e
BAPb m8%	2:791				1:1		E
BAPb m8%	2:792				1:1		E
Bpmb A5r	-191						ql P
Cl Cb Amb	1:-91	2F.6	1F6-	1F.J	1F61	31F.7	l l e
Cl Cb Amb	1:691	2F-J	:F41	9.F0J	:F7:	176F4J	l l e
Cl Cb Amb	11191	1F6:	1F04	1F6:	1F0-	2F13	l l e
Cl NqAmb	4391	J1JF34	J11FJ2	J17F61	J16F23	:F0J	l l e
Cl NqAmb	4491	J41FJ6	J0:F.0	J61F-J	J01F22	1F30	l l e
Cl pen5	1291						ql P
Cl pen5	1292						ql P
C%Nlp5r	3091						ql P
C%Nlp5r	3092						ql P
C%pmb Amb	0292	2F74	2F74	3F.7	2F77	2F-7	l l e
Cnel N&	0792	1F04	1F04	1F4J	1F02	2F6:	l l e
CnI l r p	6392	3F3J	3F27	3F4J	3F3-	2F63	l l e
t hPl pnPAmb	10691						ql P
t hPl pnPAmb	10692						ql P
. peAmb	16491						ql P
. peAmb	16492						ql P
Gl CnN5Amb	16:91						ql P
Gl CnN5Amb	16:92						ql P
HnNb Amb	16091				1:3		E
HnNb Amb	16092				1:1		E
D5OAmb	11091				1:6		E
D5OAmb	11092				1:1		E
Dpn5	0492	326F67	310F.7	326F-J	322F--	2F.7	l l e
Dpn5	0692	312F.4	3:-FJ6	311F-:	31:F-J	:F07	l l e
Dpn5	0J92	32-F62	3:JFJ6	313F70	316FJJ	3F3-	l l e
Kphl &a5	-391						ql P
Lr l O	2:691	1F02	1F34	1F4J	1F44	6F22	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBaumb erpas	LB126466	o l r pl &mpas	wl P8 l N
Ll ea l b l NaD aaa	SB103-74B	D5P&pmb 5r &ul b ras	S-
CNA5&a l b l NaD aaa	LC -74	t AN&N5aJl q&mpas	1
t l &aTai Ao r ac qdmAr Oas	2:239 J914a10s0-s1-	t l &UANaul b ras	:3JLC . FO

Sl pl b r &p	y l PP	Cn5v r l 1	Cn5v r l 2	Cn5v r l 3	cgMFaCn5qF	Cn5qv t	R5AP
Lr l O	2:J91	1F0J	1F4J	1F01	1F02	3F26	l l e
Lr l O	2:-91	1F47	1F44	1F0:	1F4-	2F17	l l e
LA%Amb	691				1:1		E
y l M5r PAmb	2492	-:4F74	J-:F33	-11F--	J77F.0	2F.J	l l e
y l 5M 5r Pr	0092	1F4-	1F04	1F4-	1F0:	2F1-	l l e
y nNeOr 5mb	7491	7F.:	-F6J	7F12	-F73	2F61	l l e
y nNeOr 5mb	7091	JF06	JF0:	JF64	JF0J	:F7-	l l e
y nNeOr 5mb	7691	JF61	JF6:	JF70	JFJ2	2F07	l l e
y nNeOr 5mb	7J91	JFJ:	JF71	-F02	-F.4	0F27	l l e
y nNeOr 5mb	7-91	JF3-	JFJJ	-F.4	JFJ3	4F31	l l e
u r nOhb Amb	10:91						ql P
u r nOhb Amb	10:92						ql P
u Aqkr N	6:92	1F4J	1FJ3	1F6J	1F62	-F2-	l l e
S%nPl %mpmP	3192	12F04	94:F-0	926F47	91-F2J		l l e
Sn&PPAmb	3792	-42FJ:	-36F74	-10FJ-	-31F-1	1FJ:	l l e
v %nOAmb	1:391				1:0		E
v %nOAmb	1:392				1:2		E
ql 5OAmb	4091				1:0		E
ql 5OAmb	4092				1::		E
r Nl 5Amb	-291	JF0-	-F06	JF7J	-F.4	6F1J	l l e
r Nl 5Amb	JJ92	JF31	0F22	-F31	6F70	22F67	l l e
r Nl 5Amb	J-92	JF2J	JF74	JF7:	JFJ:	4F-J	l l e
AAqn5	2-91	16F46	1JF20	1JF46	1JF.0	3F1:	l l e
Agr p	1:J91	1F04	1F02	1F01	1F02	:F-7	l l e
Agr p	1:791	1F47	1F07	1F61	1F06	4F1:	l l e
nOAmb	2392	-J2F33	-0JF-0	-61F74	-64F.4	:F-6	l l e
&n5&Amb	-691	1F61	1F-1	1FJ7	1FJ4	6F27	l l e
&n5&Amb	--91	1F67	1F62	1F67	1F6J	2F2J	l l e
mNmp	3491	92J-FJ6	913JF12	2-F4J	9127F14		l l e
i r peAmb	10791				1:4		E
i r peAmb	10792				1::		E
i %NNmb	2:391	1F44	1F4:	1F42	1F42	1F12	l l e
i %NNmb	2:091	1F01	1F41	1F03	1F4-	4F02	l l e
i A5	11-91	:F.:	9F.1	:F.:	:F.:		l l e
i A&5Amb	4J91	JF-3	-F30	JF-J	-F.2	3F6:	l l e
Rpl 5Amb	23-91	1F43	1F4:	1F40	1F43	2F.-	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBaumb erpas	LB126466	olrpl &npas	wlP8lN
Llea lblNaDasa	SB103-74B	D5P&pmb 5r&ulbras	S-
CNA5&a lblNaDasa	LC -74	t AN&A5aJlq&npas	1
tl&aTaiAvrac qdmAr Cas	2:239 J914a10s0-s1-	tl&UANaulbras	:3JLC .FO

Slplbr&p	ylPP	Cn5vrl1	Cn5vrl2	Cn5vrl3	cgMFaCn5qF	Cn5qv t	R5A&P
Vl5lOAmb	0192	JF00	JFJ6	JF63	JF60	1F37	lle
Y&&peAmb	1J291						qlP
Y&&peAmb	1J292						qlP
Y&&peAmb	1J691						qlP
Y&&peAmb	1J692						qlP
Y&&pAmb	-791				1:0		E
Y&&pAmb	-792				1::		E
ZA5q	6692	-F21	-F1:	JF1J	JF-3	JF24	lle
ZAqn5Amb	7:91	1F02	1F40	1F47	1F47	2F4-	lle
ZAqn5Amb	7191	1F47	1F3-	1F42	1F43	3F-4	lle

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-31	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46A2	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:31:23	DJtJCiwb 8 Ju b :	30PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	27-2	27P.1M	273.1y	267.4M	271.M4	2.3y	ppm
Aotiu Ooh	121-1	11.7P	11.M3	11.6P	11.7M	3.M6	ppm
Aeaboic	7y-2	13.63	13.2P	13.0M	13.40	1.yP	ppm
BJeiNu	10y-1	1.4M	1.61	1.00	1.47	M44	ppm
BJeiNu	107-1	1.4y	1.yy	1.4M	1.y3	0.y2	ppm
BbehwiNu	M-1	14.46	14.y0	14.02	14.44	3.70	ppm
Biau Nt%	23M-1				131		E
Biau Nt%	23M-2				MP		E
BeOu iob	P1-1						cpa
UJdu iNu	13P-1	7.62	7.14	7.74	7.y3	4.24	ppm
UJdu iNu	136-1	6.1P	7.P6	0.23	y.74	41.36	ppm
UJdu iNu	111-1	M11	MP2	P.7y	M20	y.M3	ppm
UJwiNu	40-1	242.y4	206.42	202.32	206.MM	2.20	ppm
UJwiNu	44-1	273.26	267.0y	267.M7	26P.y0	3.y7	ppm
UJemOo	12-1						cpa
UJemOo	12-2						cpa
U%WOeiob	0y-1						cpa
U%WOeiob	0y-2						cpa
U%eOu iNu	y2-2	13.60	13.63	13.00	13.y2	1.y0	ppm
UOmJwv	yM-2	3.10	3.12	3.14	3.10	P.7P	ppm
UOppbe	60-2	14.M6	14.26	14.77	14.66	2.4P	ppm
DhapeOaiNu	1y6-1						cpa
DhapeOaiNu	1y6-2						cpa
5emiNu	164-1						cpa
5emiNu	164-2						cpa
GJdOiioiNu	163-1						cpa
GJdOiioiNu	163-2						cpa
HOw iNu	16y-1				130		E
HOw iNu	16y-2				MM		E
IodiNu	11y-1				13y		E
IodiNu	11y-2				MM		E
IeOo	y4-2	222.2P	222.My	217.4y	223.PM	1.06	ppm
IeOo	y6-2	230.M1	1MP.Py	236.64	230.10	1.My	ppm
IeOo	y7-2	234.23	1M0.11	237.M6	231.76	0.P0	ppm
KehptOo	P0-1						cpa
LbJd	236-1	24.17	24.7P	24.23	24.0P	1.43	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-31	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	A46A2	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:31:23	DJtJCiwb 8 Ju b :	30PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
LbJd	237-1	24.41	24.M3	2y.0P	24.M3	1.M4	ppm
LbJd	23P-1	24.41	24.Py	24.62	24.62	3.PM	ppm
Lit%iNu	6-1				134		E
g JvobaiNu	24-2	P3.y0	P4.62	MP.64	P7.M0	13.P3	ppm
g JovJobab	yy-2	00.M1	00.0P	00.37	00.4y	1.2P	ppm
g OwmdboNu	M4-1	1.26	1.0P	1.07	1.00	y.34	ppm
g OwmdboNu	My-1	3.13	3.36	3.34	3.36	44.36	ppm
g OwmdboNu	M6-1	3.21	3.20	3.23	3.21	6.34	ppm
g OwmdboNu	M7-1	3.12	3.37	3.13	3.13	22.73	ppm
g OwmdboNu	MP-1	3.11	3.13	3.3P	3.3M	14.4P	ppm
8 bOdhu iNu	1y3-1						cpa
8 bOdhu iNu	1y3-2						cpa
8 ickbw	63-2	22.3M	22.26	22.20	22.23	3.41	ppm
I %Oap%OeNa	01-2	4.M0	0.32	-4.y6	1.10	444.10	ppm
I OtJaaiNu	0M-2	1P3.y3	1yM0y	1P3.07	170.43	7.32	ppm
n %OdiNu	130-1				134		E
n %OdiNu	130-2				133		E
r cJodiNu	4y-1				132		E
r cJodiNu	4y-2				MP		E
r bwboiNu	P2-1	0MMP	42.42	43.PM	41.13	2.MM	ppm
r bwboiNu	77-2	0My3	0P.M6	02.y0	07.33	13.4M	ppm
r bwboiNu	7P-2	43.1y	43.27	40.76	41.43	4.M6	ppm
r iwcOo	2P-1	237.2y	1M4.62	1M7.11	1MM66	0.0y	ppm
r iwRbe	137-1	21.M2	22.y0	22.26	22.24	1.07	ppm
r iwRbe	13M-1	22.y2	22.7P	22.2y	22.y2	1.17	ppm
r OdiNu	20-2	144.2P	140.y0	1yy.MM	147.M0	4.72	ppm
r teOotiNu	P6-1	2.24	2.21	2.1P	2.21	1.4M	ppm
r teOotiNu	PP-1	2.20	2.11	2.12	2.1y	0.30	ppm
r NwNe	04-1	022.14	-223.P3	1Py.64	My.66	2My.24	ppm
TbemiNu	1yM-1				130		E
TbemiNu	1yM-2				MM		E
T%JwiNu	230-1	3.3P	3.3P	3.3M	3.3P	2.12	ppm
T%JwiNu	23y-1	3.3M	3.11	3.11	3.13	10.03	ppm
Tio	11P-1	3.3P	3.1y	3.12	3.12	02.0y	ppm
TitJoiNu	47-1	0.37	2.PP	2.MP	2.MP	0.10	ppm
FeJoiNu	20P-1	3.36	3.3y	3.34	3.3y	1M71	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S 0463-31	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46A2	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:31:23	DJtJCiwb 8 Ju b :	30PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y1-2	03.6y	03.60	03.1P	03.4P	3.P7	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	PM-1				136		E
YtteiNu	PM-2				MM		E
Zioc	66-2	1.62	1.MM	2.32	1.PP	11.7M	ppm
ZiecOoiNu	M3-1	3.76	3.7P	3.7y	3.76	2.11	ppm
ZiecOoiNu	M1-1	3.71	3.77	3.yM	3.6M	10.4M	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-30	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46L0	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:34:20	DJtJ. iwb 8 Ju b :	30nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	27-2	13P77Fn6	13P6nF22	13n30FP6	13PP0F6P	3F17	ppm
Aotiu Ooy	121-1	3F44	3F44	3F46	3F4h	2F33	ppm
Aeaboic	7h-2	0F6h	0F6P	0F60	0F6h	3F7h	ppm
BJeiNu	10h-1	64F4P	60F63	62Fn1	60F67	1F20	ppm
BJeiNu	107-1	6hF46	60F63	60F0h	64F10	1F7n	ppm
BbeywiNu	n-1	3Fh0	3Fh4	3Fh2	3Fh0	1F27	ppm
Biau Nt%	23n-1				132		E
Biau Nt%	23n-2				nn		E
BeOu iob	P1-1						cpa
RJdu iNu	13P-1	3F06	3F47	3F20	3F0h	04F7h	ppm
RJdu iNu	136-1	-3FPn	-3F14	-0F3P	-1F07		ppm
RJdu iNu	111-1	3F27	3F06	3F33	3F21	n3Fnn	ppm
RJwiNu	40-1	2041F7n	20h6Fnn	2064F1n	20h4F00	3F4n	ppm
RJwiNu	44-1	206hF0n	20P2F7P	20n7F12	20P1F77	3F67	ppm
RJemOo	12-1						cpa
RJemOo	12-2						cpa
R%WOeiob	0h-1						cpa
R%WOeiob	0h-2						cpa
R%eOu iNu	h2-2	03FPn	03F7n	01F22	03Fn7	3F72	ppm
ROmJw	hn-2	nF76	nF73	nFn2	nFP3	1F17	ppm
ROppbe	60-2	06F4P	0hF64	06F4P	06F23	1F04	ppm
DyapeOaiNu	1h6-1						cpa
DyapeOaiNu	1h6-2						cpa
CemiNu	164-1						cpa
CemiNu	164-2						cpa
GJdOiwoiNu	163-1						cpa
GJdOiwoiNu	163-2						cpa
HOw iNu	16h-1				13h		E
HOw iNu	16h-2				131		E
IodiNu	11h-1				13h		E
IodiNu	11h-2				133		E
IeOo	h4-2	224n2F37	2170hF4h	2200nF3h	221PPFP6	1FP3	ppm
IeOo	h6-2	216hPF3h	21112Fh1	21PP7Fh7	21hh2F71	1FPh	ppm
IeOo	h7-2	21203F10	23671Fh1	23773F6n	23Pn3F7P	1F40	ppm
KeyptOo	P0-1						cpa
LbJd	236-1	hnF62	hPF7P	hnF36	hnF1h	3F70	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-30	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46L0	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:34:20	DJtJ. iwb 8 Ju b :	30nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
LbJd	237-1	hPFhP	hPF2P	h7FPP	hPF2h	3F61	ppm
LbJd	23P-1	hnF60	hnFhn	hPF26	hnF16	1F02	ppm
Lit%iNu	6-1				130		E
MJgobaiNu	24-2	4hnnFh4	4634F1P	4611F76	463hF16	3F10	ppm
MJogJobab	hh-2	04nF63	047FP0	04PF14	04PFh0	3F27	ppm
MOymdboNu	n4-1	0F47	0F44	0F4n	0F47	3F74	ppm
MOymdboNu	nh-1	3Fh7	3F6h	3F6h	3F62	7F20	ppm
MOymdboNu	n6-1	3FhP	3Fh3	3Fh2	3Fh0	4Fh3	ppm
MOymdboNu	n7-1	3F74	3F70	3F61	3F6n	13F01	ppm
MOymdboNu	nP-1	3Fhh	3F62	3Fhn	3Fhn	6F33	ppm
8 bOdyu iNu	1h3-1						cpa
8 bOdyu iNu	1h3-2						cpa
8 ickbw	63-2	1PF73	1PF2P	1PF3n	1PF06	1F71	ppm
I %Oap%OeNa	01-2	710F10	71PF12	720F66	71PF01	3F70	ppm
I OtJaaiNu	0n-2	1220Fh6	122PFh2	121PF6P	1220F72	3F43	ppm
5 %OdiNu	130-1				132		E
5 %OdiNu	130-2				133		E
r cJodiNu	4h-1				13h		E
r cJodiNu	4h-2				133		E
r bwboiNu	P2-1	3F37	3Fh1	3F2h	3F27	P1Fh3	ppm
r bwboiNu	77-2	13F03	7F2P	13F02	nF03	1PFP0	ppm
r bwboiNu	7P-2	0F6P	2F21	1F00	2F41	4nF06	ppm
r iwcOo	2P-1	24P0F16	2h03FP0	24n6F72	2h30Fh7	3FhP	ppm
r iwbe	137-1	3F2P	3F2P	3F01	3F2n	hFP3	ppm
r iwbe	13n-1	3F2n	3F2n	3F02	3F03	6Fh6	ppm
r OdiNu	20-2	033F36	034F73	010F7h	036F17	2F27	ppm
r teOotiNu	P6-1	16F03	16F10	1hF61	16F32	2F24	ppm
r teOotiNu	PP-1	16F10	16F14	1hFP4	16F34	1F37	ppm
r NwNe	04-1	-224Fh6	-640F02	-62nFh7	-4nnF42		ppm
TbemiNu	1hn-1				130		E
TbemiNu	1hn-2				133		E
T%JwiNu	230-1	3F1n	3F21	3F22	3F23	7Fh2	ppm
T%JwiNu	23h-1	3F23	3F22	3F23	3F21	hF02	ppm
Tio	11P-1	nF26	nF33	PFhP	nF3P	1F71	ppm
TitJoiNu	47-1	630F07	614FP0	623F64	612Fhh	1F40	ppm
UeJoiNu	20P-1	1F03	1F2n	1F03	1F03	3F4P	ppm

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S 0463-30	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46L0	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:34:20	DJtJ. iwb 8 Ju b :	30nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	h1-2	03F7n	01F10	01F33	03Fn7	3Ffn4	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Pn-1				137		E
YtteiNu	Pn-2				131		E
Zioc	66-2	131F14	132F4n	132Ffn7	132F37	3F7n	ppm
ZiecOoiNu	n3-1	1F7P	1F76	1F7n	1F7P	3FP3	ppm
ZiecOoiNu	n1-1	1F71	1F70	1FP0	1F76	0F71	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-34	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46LP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:37:20	DJtJCiwb 8 Ju b :	343An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
AwNu ioiNu	27-2	00467.26	02146.70	4177MP2	0y7M7.M4	14.yM	ppm
Aotiu Ooh	121-1	3.1y	3.12	3.16	3.14	14.00	ppm
Aeaboic	7y-2	0.42	0.3M	0.76	0.42	M70	ppm
BJeiNu	10y-1	10y.P4	106.74	14y.y1	10M06	0.P0	ppm
BJeiNu	107-1	10P.40	10y.MM	14y.0y	10MM2	0.47	ppm
BbehwiNu	M-1	1.y3	1.y3	1.y6	1.y2	2.0M	ppm
Biau Nt%	23M-1				130		E
Biau Nt%	23M-2				M0		E
BeOu iob	P1-1						cpa
UJdu iNu	13P-1	3.72	3.4P	1.33	3.70	0y.4y	ppm
UJdu iNu	136-1	1.61	-1.66	-3.14	-3.36		ppm
UJdu iNu	111-1	3.24	3.34	3.13	3.12	P2.7M	ppm
UJwiNu	40-1	03MM6M	0117.P3	003y.4P	0174.02	0.yM	ppm
UJwiNu	44-1	0120.2M	0142.31	001P.36	01M4.4y	0.06	ppm
UJemOo	12-1						cpa
UJemOo	12-2						cpa
U%wOeiob	0y-1						cpa
U%wOeiob	0y-2						cpa
U%eOu iNu	y2-2	yM32	yy.MM	70.72	62.M1	1y.37	ppm
UOmJw	yM-2	22.32	21.0P	27.10	20.y1	10.41	ppm
UOppbe	60-2	41.17	43.40	y1.yy	44.0P	14.31	ppm
DhapeOaiNu	1y6-1						cpa
DhapeOaiNu	1y6-2						cpa
5emiNu	164-1						cpa
5emiNu	164-2						cpa
GJdOiwoiNu	163-1						cpa
GJdOiwoiNu	163-2						cpa
HOw iNu	16y-1				137		E
HOw iNu	16y-2				My		E
IodiNu	11y-1				137		E
IodiNu	11y-2				M0		E
IeOo	y4-2	y2123.2P	y3232.72	640M2.60	yyy71.PP	10.Py	ppm
IeOo	y6-2	y1222.2P	y34M4.33	62300.67	y4yP0.02	11.P4	ppm
IeOo	y7-2	y03P1.16	y3Py0.34	64P02.23	y62yy.47	10.0y	ppm
KehptOo	P0-1						cpa
LbJd	236-1	1y.6y	1y.M6	16.46	16.30	2.yy	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-34	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	A46LP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:37:20	DJtJCiwb 8 Ju b :	343An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
LbJd	237-1	14.6P	1y.3P	1y.yM	1y.12	0.31	ppm
LbJd	23P-1	1y.2y	1y.y2	16.31	1y.yM	2.4P	ppm
Lit%iNu	6-1				136		E
g JvobaiNu	24-2	12yy3.P7	126P4.34	1y7P1.PP	10672.26	10.07	ppm
g JovJobab	yy-2	6y0.10	604.23	P34.0y	6M7.20	10.07	ppm
g OwmdboNu	M4-1	M3y	M26	MP0	M0P	4.01	ppm
g OwmdboNu	My-1	3.0P	3.0y	3.0y	3.06	4.y0	ppm
g OwmdboNu	M6-1	1.10	1.2y	1.43	1.26	13.y1	ppm
g OwmdboNu	M7-1	3.2M	3.01	3.0y	3.02	M36	ppm
g OwmdboNu	MP-1	3.00	3.06	3.0y	3.0y	4.06	ppm
8 bOdhu iNu	1y3-1						cpa
8 bOdhu iNu	1y3-2						cpa
8 ickbw	63-2	44.44	40.2y	y6.10	47.M4	14.P4	ppm
I %Oap%OeNa	01-2	M4y.0M	PMy.20	1222.y3	1321.34	17.26	ppm
I OtJaaiNu	0M-2	4401.60	40y0.6y	y63y.M1	47M7.36	14.62	ppm
n %OdiNu	130-1				13y		E
n %OdiNu	130-2				My		E
r cJodiNu	4y-1				113		E
r cJodiNu	4y-2				M6		E
r bwboiNu	P2-1	3.00	3.2P	-3.36	3.1M	11y.02	ppm
r bwboiNu	77-2	16.3P	2y.01	1P.PP	23.3M	20.y6	ppm
r bwboiNu	7P-2	0.y6	y.0y	0.71	4.21	20.y6	ppm
r iwcOo	2P-1	0y23.14	0y13.42	0720.6y	0yP4.74	0.06	ppm
r iwRbe	137-1	3.36	3.37	3.13	3.3P	26.43	ppm
r iwRbe	13M-1	3.3P	3.3M	3.3M	3.3M	P.24	ppm
r OdiNu	20-2	2PM34	26M30	06P.47	03P.P4	17.30	ppm
r teOotiNu	P6-1	03.2P	01.31	03.73	03.66	1.23	ppm
r teOotiNu	PP-1	03.03	03.76	01.M4	01.33	2.72	ppm
r NwNe	04-1	-1M40.Py	-2310.03	-16MP.0P	-1PPy.1P		ppm
TbemiNu	1yM-1				13y		E
TbemiNu	1yM-2				M4		E
T%JwiNu	230-1	3.41	3.42	3.43	3.41	2.13	ppm
T%JwiNu	23y-1	3.4y	3.42	3.4y	3.44	0.y0	ppm
Tio	11P-1	3.M3	3.M3	3.M6	3.M2	0.4y	ppm
TitJoiNu	47-1	10M1.63	14yMP3	1y2M01	1463.24	4.72	ppm
FeJoiNu	20P-1	2.PP	2.My	2.M6	2.M0	1.0M	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S 0463-34	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46LP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:37:20	DJtJCiwb 8 Ju b :	343An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y1-2	7P.22	7y.P3	M7.77	P0.M0	14.06	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	PM-1				112		E
YtteiNu	PM-2				M7		E
Zioc	66-2	M4.0y	M2.2P	116.P6	131.16	10.47	ppm
ZiecOoiNu	M3-1	4.P2	4.M7	y.1P	4.MM	0.61	ppm
ZiecOoiNu	M1-1	4.P0	4.P1	y.24	4.M6	4.MP	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0463-37	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	c46Ly	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2320-3 -14:169139 22	t a&a. Ae:Name:9	341c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&s
clumAnAum	2 -2	03618F 6	2y482F 2	2y822F36	2yy 4F71	1Fy7	I I b
cn&Amonh	121-1	3F22	3F26	3F26	3F27	yF72	I I b
crsenAq	7-2	4F18	4F77	4F47	4F0y	4F04	I I b
BarAum	107-1	138F37	112F40	113F12	113F23	1Fyy	I I b
BarAum	10 -1	111F03	114Fy4	114Fy4	110F 0	1F87	I I b
BerhllAum	y-1	1F21	1F1	1F27	1F21	0F0y	I I b
BAsmu&%	23y-1				132		E
BAsmu&%	23y-2				y8		E
BromAne	81-1						ql s
RaOmAum	138-1	3F67	3F63	3F y	3F68	14F y	I I b
RaOmAum	136-1	-1F7	-3Fy8	-3Fy2	-1F17		I I b
RaOmAum	111-1	3F34	3F36	3F14	3F38	68F11	I I b
RalqAum	40-1	2y40F16	2y01F70	034yF81	2y 4F80	2F1y	I I b
RalqAum	44-1	2y26F43	2y07F72	034 F74	2y6yF82	2F2	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
R%orAne	07-1						ql s
R%orAne	07-2						ql s
R%omAum	72-2	60F01	60F37	62F17	62F84	3Fy	I I b
Robal&	7y-2	21F83	22F1y	21Fyy	21Fyy	3F88	I I b
RoI I er	60-2	4 F86	46Fy7	4 F74	4 F47	3Fy	I I b
t hsI rosAum	176-1						ql s
t hsI rosAum	176-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
GaOolAnAum	163-1						ql s
GaOolAnAum	163-2						ql s
HolmAum	167-1				134		E
HolmAum	167-2				yy		E
DnOAum	117-1				136		E
DnOAum	117-2				y		E
Don	74-2	7374 F81	71322F36	73378F y	73742Fby	3Fy7	I I b
Don	76-2	4y 71F y	48741F14	4 672F38	48648F00	2F1	I I b
Don	7 -2	4y472F82	73683F34	48627F17	4y786F33	2F3y	I I b
KrhI &on	80-1						ql s
LeaO	236-1	01F34	03F 3	03F83	03F87	3F76	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0463-37	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	c46Ly	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2320-3 -14:169139 22	t a&a. Ae:Name:9	341c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&s
LeaO	23 -1	2yF y	03F30	2yF 0	2yF87	3F70	I I b
LeaO	238-1	03F03	03F68	03F37	03F04	1F37	I I b
LA%Aum	6-1				138		E
MagnesAum	24-2	10782F31	100 1F4	10234F87	10086F11	1F41	I I b
Manganese	77-2	13Fy4	32F07	6y F1y	30F4y	3Fyy	I I b
MolhbOenum	y4-1	yF02	yF64	yF2	yF41	2F16	I I b
MolhbOenum	y7-1	3F0y	3F06	3F41	3F08	6F60	I I b
MolhbOenum	y6-1	1F73	1F41	1F24	1F08	yF4	I I b
MolhbOenum	y -1	3F08	3F41	3F43	3F43	4F11	I I b
MolhbOenum	y8-1	3F4	3F43	3F00	3F43	1 F07	I I b
NeoChmAum	173-1						ql s
NeoChmAum	173-2						ql s
NAqkel	63-2	42F08	41Fy0	43F03	41F74	2F60	I I b
P%osI %orus	01-2	8yyF 3	877F6	y10F33	88yF46	0F0	I I b
Po&assAum	0y-2	01 0F10	0100F8y	03y F32	0104F68	1F21	I I b
5%oOAum	130-1				134		E
5%oOAum	130-2				133		E
pqanOAum	47-1				113		E
pqanOAum	47-2				131		E
pelenAum	82-1	3F12	3F48	3F44	3F07	76F4y	I I b
pelenAum	-2	10F0y	12F03	28F37	1 Fy1	4yF13	I I b
pelenAum	8-2	2Fy0	0F 7	0Fy1	0F70	14Fy0	I I b
pAAqon	28-1	2638Fy4	2614F84	2 2yF84	2671F21	2F7	I I b
pAver	13 -1	3F38	3F13	3F11	3F13	17F3y	I I b
pAver	13y-1	3F36	3F3y	3F12	3F3y	02F1y	I I b
poOAum	20-2	264F24	260F63	276F0y	261F41	1F6	I I b
p&onA&um	86-1	26F14	27F87	26F31	26F33	3F76	I I b
p&onA&um	88-1	27F	27F87	27F62	27F 7	3F46	I I b
pulfur	04-1	-200 Fy	-240 F74	-23 8F67	-2284F 2		I I b
i erbAum	17y-1				130		E
i erbAum	17y-2				yy		E
i %allAum	230-1	3F00	3F00	3F07	3F04	2F88	I I b
i %allAum	237-1	3F07	3F02	3F04	3F04	7F30	I I b
i An	118-1	1F86	1Fy2	1F 8	1F87	0F 8	I I b
i A&anAum	4 -1	1340F34	1368F40	1387F36	1367F71	1Fyy	I I b
UranAum	208-1	2F16	2F07	2F23	2F24	4F7	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0463-37	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	c46Ly	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2320-3 -14:169139 22	t a&a. Ae:Name:9	341c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&s
VanaOAum	71-2	87F33	84F 3	87F22	84Fy	3F01	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8y-1				13y		E
Y&&Aum	8y-2				131		E
ZAnq	66-2	170F70	171Fy0	173F47	171Fy	1F32	I I b
ZAqonAum	y3-1	7F14	4Fy8	7F30	7F37	1F64	I I b
ZAqonAum	y1-1	7F33	7F22	7F23	7F14	2F07	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-36	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46g 3	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:10:23	DJtJCiwb 8 Ju b :	342An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
AwNu ioiNu	27-2	22M1P.4M	21y7P.37	213My.4P	21P64.32	4.02	ppm
Aotiu Ooh	121-1	3.3M	3.3M	3.11	3.13	13.3M	ppm
Aeaboic	7y-2	2.P1	2.y3	2.yP	2.60	6.36	ppm
BJeiNu	10y-1	7M63	7P.44	P1.0y	7MP3	1.P4	ppm
BJeiNu	107-1	P1.76	7My0	P2.M7	P1.42	2.1y	ppm
BbehwiNu	M-1	1.17	1.3y	1.3M	1.13	y.00	ppm
Biau Nt%	23M-1				132		E
Biau Nt%	23M-2				MP		E
BeOu iob	P1-1						cpa
UJdu iNu	13P-1	3.27	3.y0	3.43	3.43	02.13	ppm
UJdu iNu	136-1	-3.y1	-3.y2	-1.42	-3.P2		ppm
UJdu iNu	111-1	3.14	3.10	3.32	3.13	71.76	ppm
UJwiNu	40-1	2642.7y	2641.MM	2710.M1	2666.22	1.yy	ppm
UJwiNu	44-1	2664.M4	26PP.67	27y7.61	2730.74	1.7P	ppm
UJemOo	12-1						cpa
UJemOo	12-2						cpa
U%WOeiob	0y-1						cpa
U%WOeiob	0y-2						cpa
U%eOu iNu	y2-2	43.yM	0P.y4	0P.3y	0M36	0.4y	ppm
UOmJw	yM-2	1y.41	14.20	10.P2	14.4M	y.6M	ppm
UOppbe	60-2	2M72	2P.2M	27.62	2P.yy	0.7y	ppm
DhapeOaiNu	1y6-1						cpa
DhapeOaiNu	1y6-2						cpa
5emiNu	164-1						cpa
5emiNu	164-2						cpa
GJdOiioiNu	163-1						cpa
GJdOiioiNu	163-2						cpa
HOw iNu	16y-1				137		E
HOw iNu	16y-2				133		E
IodiNu	11y-1				136		E
IodiNu	11y-2				MP		E
IeOo	y4-2	0021My0	01760.21	03MM0.P4	01MM2.23	0.y0	ppm
IeOo	y6-2	020y6.22	030M0.P6	2M627.47	037M2.y2	4.y7	ppm
IeOo	y7-2	03M41.M7	2PP2M11	2PP3M26	2My26.7P	4.1y	ppm
KehptOo	P0-1						cpa
LbJd	236-1	10.76	10.03	10.17	10.41	2.00	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-36	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	A46g 3	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:10:23	DJtJCiwb 8 Ju b :	342An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
LbJd	237-1	12.M6	12.07	12.y7	12.60	2.0P	ppm
LbJd	23P-1	10.21	12.P4	12.Py	12.M7	1.61	ppm
Lit%iNu	6-1				13y		E
g JvobaiNu	24-2	P010.4M	7741.M7	7P22.My	7MyM47	0.PM	ppm
g JovJobab	yy-2	022.1M	034.P4	033.M1	03M01	0.66	ppm
g OwmdboNu	M4-1	6.41	y.yM	y.P6	y.My	6.MM	ppm
g OwmdboNu	My-1	3.26	3.03	3.03	3.2P	P.14	ppm
g OwmdboNu	M6-1	3.M0	3.M2	3.P7	3.M1	0.3M	ppm
g OwmdboNu	M7-1	3.02	3.2y	3.2M	3.2M	12.PM	ppm
g OwmdboNu	MP-1	3.01	3.2M	3.2P	3.2M	4.PP	ppm
8 bOdhu iNu	1y3-1						cpa
8 bOdhu iNu	1y3-2						cpa
8 ickbw	63-2	01.30	2M4P	2P.7y	2M7y	0.M1	ppm
I %Oap%OeNa	01-2	776.6M	6M3.40	737.M7	72y.30	6.2M	ppm
I OtJaaiNu	0M-2	240y.PP	227P.P7	22P0.MM	2002.M1	0.P2	ppm
n %OdiNu	130-1				13y		E
n %OdiNu	130-2				133		E
r cJodiNu	4y-1				13M		E
r cJodiNu	4y-2				133		E
r bwboiNu	P2-1	-3.16	-3.1P	3.06	3.31	0M6M27	ppm
r bwboiNu	77-2	11.7P	10.23	14.1M	10.36	M03	ppm
r bwboiNu	7P-2	0.0P	0.40	2.4M	0.13	16.MP	ppm
r iwcOo	2P-1	06yM14	064MP1	06Py.11	0664.6M	3.y3	ppm
r iwRbe	137-1	3.36	3.36	3.37	3.36	10.y1	ppm
r iwRbe	13M-1	3.37	3.3y	3.36	3.36	14.63	ppm
r OdiNu	20-2	2M6.1P	276.64	273.72	2P1.1P	4.74	ppm
r teOotiNu	P6-1	1MP3	1MP1	1M6P	1M76	3.0P	ppm
r teOotiNu	PP-1	23.31	1M60	1M70	1M7M	3.MM	ppm
r NwNe	04-1	-2676.y1	-2743.y1	-2yPMy1	-266P.P4		ppm
TbemiNu	1yM-1				134		E
TbemiNu	1yM-2				MM		E
T%JwiNu	230-1	3.27	3.26	3.2P	3.27	4.77	ppm
T%JwiNu	23y-1	3.2M	3.2P	3.2P	3.2P	1.y6	ppm
Tio	11P-1	3.7P	3.76	3.Py	3.P3	y.PM	ppm
TitJoiNu	47-1	PM1.y1	PP6.P1	PM6.0M	PM1.y7	3.y4	ppm
FeJoiNu	20P-1	2.P2	2.77	2.P7	2.P2	1.7y	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-36	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46g 3	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:10:23	DJtJCiwb 8 Ju b :	342An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y1-2	yy.04	y2.P4	y2.M7	y0.71	2.62	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	PM-1				113		E
YtteiNu	PM-2				131		E
Zioc	66-2	70.yy	67.71	6P.01	6MP6	4.63	ppm
ZiecOoiNu	M3-1	0.24	0.2y	0.11	0.23	2.41	ppm
ZiecOoiNu	M1-1	0.27	0.21	0.17	0.22	1.y4	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-37	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46g 1	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:16:22	DJtJCiwb 8 Ju b :	340An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
AwNu ioiNu	27-2	M2P2.16	4P6y.07	M344.y7	M36MM3	4.3y	ppm
Aotiu Ooh	121-1	1.13	1.34	1.3M	1.36	2.P2	ppm
Aeaboic	7M-2	7.22	6.44	7.46	7.34	7.60	ppm
BJeiNu	10M-1	130.7P	131.P7	131.M3	132.0P	1.23	ppm
BJeiNu	107-1	136.46	130.26	132.6y	134.14	1.yM	ppm
BbehwiNu	y-1	3.0y	3.43	3.07	3.0P	0.6M	ppm
Biau Nt%	23y-1				130		E
Biau Nt%	23y-2				130		E
BeOu iob	P1-1						cpa
UJdu iNu	13P-1	1.2y	1.10	1.21	1.21	6.M6	ppm
UJdu iNu	136-1	3.21	-3.66	-2.13	-3.PM		ppm
UJdu iNu	111-1	1.12	1.31	3.y2	1.32	13.27	ppm
UJwiNu	40-1	0367.74	0326.MM	2yM0.yy	0316.3y	1.y1	ppm
UJwiNu	44-1	0324.03	03MP.37	0334.34	032P.P3	3.y3	ppm
UJemOo	12-1						cpa
UJemOo	12-2						cpa
U%wOeiob	0M-1						cpa
U%wOeiob	0M-2						cpa
U%eOu iNu	M2-2	00.77	01.44	02.03	02.M3	0.62	ppm
UOmJwv	My-2	y.y2	y.3M	y.0y	y.4M	4.66	ppm
UOppbe	60-2	63.72	M6.06	My.6y	MP.y0	0.P7	ppm
DhapeOaiNu	1M6-1						cpa
DhapeOaiNu	1M6-2						cpa
5emiNu	164-1						cpa
5emiNu	164-2						cpa
GJdOiioiNu	163-1						cpa
GJdOiioiNu	163-2						cpa
HOwiNu	16M-1				136		E
HOwiNu	16M-2				134		E
IodiNu	11M-1				136		E
IodiNu	11M-2				132		E
IeOo	M4-2	2Py7y.16	27242.Py	2PM3MP7	2P242.64	0.1P	ppm
IeOo	M6-2	2P2M6.77	26M3.62	27273.33	27042.46	0.22	ppm
IeOo	M7-2	270M2.M7	2M670.M6	260M4.73	26463.2P	0.1y	ppm
KehptOo	P0-1						cpa
LbJd	236-1	P1.0P	P3.01	P3.1M	P3.61	3.P0	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-37	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	A46g 1	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:16:22	DJtJCiwb 8 Ju b :	340An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
LbJd	237-1	77.12	7P.44	77.P3	77.7y	3.PM	ppm
LbJd	23P-1	7y.M6	7y.02	7P.M7	7y.1M	3.66	ppm
Lit%iNu	6-1				134		E
g JvobaiNu	24-2	21y7.71	2304.7P	2131.3y	2111.23	0.PP	ppm
g JovJobab	MM-2	106M67	12P4.40	1027.0M	102MP2	0.37	ppm
g OwmdboNu	y4-1	2.P0	0.12	0.16	0.34	6.3M	ppm
g OwmdboNu	yM-1	2.03	2.01	2.2y	2.03	3.41	ppm
g OwmdboNu	y6-1	2.M1	2.0y	2.4P	2.46	2.M3	ppm
g OwmdboNu	y7-1	2.M7	2.41	2.60	2.M4	4.4P	ppm
g OwmdboNu	yP-1	2.23	2.04	2.07	2.03	0.y0	ppm
8 bOdhu iNu	1M3-1						cpa
8 bOdhu iNu	1M3-2						cpa
8 ickbw	63-2	26.6P	20.M6	2M1P	2M14	6.1y	ppm
I %Oap%OeNa	01-2	M24.2P	M3MM4	MM2.0P	M27.43	4.47	ppm
I OtJaaiNu	0y-2	Myy.06	M21.0y	MM3.73	MM7.1M	7.37	ppm
n %OdiNu	130-1				136		E
n %OdiNu	130-2				136		E
r cJodiNu	4M-1				137		E
r cJodiNu	4M-2				130		E
r bwboiNu	P2-1	3.1P	3.MP	-3.32	3.2M	124.y2	ppm
r bwboiNu	77-2	2.36	M46	2.32	0.1P	62.23	ppm
r bwboiNu	7P-2	2.0P	3.MM	1.21	1.0P	67.3P	ppm
r iwcOo	2P-1	1My4.23	161y.P2	1MMP.24	1My3.76	1.y4	ppm
r iwRbe	137-1	3.17	3.17	3.1M	3.17	6.P3	ppm
r iwRbe	13y-1	3.17	3.17	3.1P	3.1P	4.0M	ppm
r OdiNu	20-2	006.My	037.14	01y.3M	023.y0	4.62	ppm
r teOotiNu	P6-1	23.34	23.06	22.1M	23.PM	M46	ppm
r teOotiNu	PP-1	23.My	23.60	21.37	23.76	1.27	ppm
r NwNe	04-1	-14P3.60	-146y.23	-1MM0.61	-1M31.1M		ppm
TbemiNu	1My-1				136		E
TbemiNu	1My-2				131		E
T%JwiNu	230-1	3.12	3.11	3.12	3.12	4.10	ppm
T%JwiNu	23M-1	3.10	3.1M	3.12	3.14	P.P6	ppm
Tio	11P-1	M62	M07	M07	M46	2.66	ppm
TitJoiNu	47-1	2M6.00	2M1.MM	2MM2P	2M4.0y	3.yy	ppm
FeJoiNu	20P-1	3.7y	3.P3	3.76	3.7P	2.41	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S 0463-37	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46g 1	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:16:22	DJtJCiwb 8 Ju b :	340An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	M1-2	23.6y	1P.74	1y.64	1y.6y	4.yM	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Py-1				111		E
YtteiNu	Py-2				13M		E
Zioc	66-2	170.12	162.7y	16P.y7	16P.2y	0.3y	ppm
ZiecOoiNu	y3-1	3.60	3.63	3.73	3.6M	7.Py	ppm
ZiecOoiNu	y1-1	3.M0	3.6P	3.6M	3.62	12.M3	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0463-37	Dw&umne&Nsme:9	87
RFen&psmI Re:D :9	c46M2	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO:9	2320-3 -14:169IJ922	t s&s. Ae:Nsme:9	344c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
cRmAAum	2 -2	1J0y1F4	17J04F27	1J4y3F6	1J24yF4	1F42	I I b
cn&Amonh	121-1	3F1	3F1y	3F17	3F16	7F4J	I I b
crwenAq	y-2	yFJJ	yFy1	yF73	yF	4F1	I I b
BsrAum	10y-1	7F 0	J3F31	76F06	7yF34	6F	I I b
BsrAum	10 -1	JF63	J1F17	77F24	76F04	6FJ	I I b
BerhFAum	J-1	3FJ0	3FJy	3FJy	3FJ4	1F04	I I b
BAumu&%	23J-1				130		E
BAumu&%	23J-2				131		E
BromAne	71-1						ql w
RsOmAum	137-1	3Fy2	3FJ3	3F30	3F4J	7JFJy	I I b
RsOmAum	136-1	-3F6y	-0F30	-1F02	-1F6		I I b
RsOmAum	111-1	3F3J	-3F3	3F11	3F3y	21 F76	I I b
RsRqAum	40-1	013yF1J	0y30F76	021yF42	02 4F72	6F2J	I I b
RsRqAum	44-1	0121F76	04 0F6	003yF77	0033F4	yF00	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
R%RrAne	0y-1						ql w
R%RrAne	0y-2						ql w
R%omAum	y2-2	0 F01	0yFJ6	06Fyy	06F61	1F76	I I b
RobsR&	yJ-2	14F61	14Fy3	14F62	14Fy7	3F47	I I b
RoI I er	60-2	01F2	03F67	01F3	01F31	3FJ	I I b
t hwI rowAum	1y6-1						ql w
t hwI rowAum	1y6-2						ql w
CrbAum	164-1						ql w
CrbAum	164-2						ql w
GsOoFAum	163-1						ql w
GsOoFAum	163-2						ql w
HoFmAum	16y-1				13		E
HoFmAum	16y-2				131		E
DrOAum	11y-1				137		E
DrOAum	11y-2				131		E
Don	y4-2	0243 F0	02 J7F47	02036F41	02y34F3J	3F73	I I b
Don	y6-2	01J 1Fy4	2J670Fy1	01144F30	03J00F32	0F y	I I b
Don	y -2	03477FJ4	2J1J0F42	2J7J1FJ4	2J7y7F13	2F1	I I b
KrhI &on	70-1						ql w
LesO	236-1	22F6	2yFy6	2yF01	24Fy1	6Fy4	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0463-37	Dw&umne&Nsme:9	87
RFen&psmI Re:D :9	c46M2	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2320-3 -14:169IJ922	t s&s. Ae:Nsme:9	344c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
LesO	23 -1	21F40	24F06	20FJ0	20F24	6F73	I I b
LesO	237-1	22F0J	2yF14	24F47	24F33	yFJ7	I I b
LA%Aum	6-1				136		E
MsgnewAum	24-2	6 3F02	y36F62	y07F06	y 1F	1F1y	I I b
Msngsnewe	yy-2	41JF01	430F00	417F36	410Fy	2F1y	I I b
MoPPbOenum	J4-1	yF2y	yFy2	6F1y	yF64	7F16	I I b
MoPPbOenum	Jy-1	3F04	3F04	3F41	3F06	11F 3	I I b
MoPPbOenum	J6-1	3FJy	3FJ4	3F7y	3FJ2	yF76	I I b
MoPPbOenum	J -1	3F06	3F0	3F0y	3F06	2F2J	I I b
MoPPbOenum	J7-1	3F00	3F04	3F01	3F02	4F32	I I b
NeoOhmAum	1y3-1						ql w
NeoOhmAum	1y3-2						ql w
NAqkeP	63-2	2 F67	2 F37	2 FJ0	2 Fy6	1Fy7	I I b
8%owl %oruw	01-2	1347F10	7J1F44	JJyF63	J 7F0J	7F1y	I I b
8os&swwAum	0J-2	2311FJ4	1J yF71	230JF 7	233JF1	1F63	I I b
5%oOAum	130-1				13y		E
5%oOAum	130-2				134		E
pqsnOAum	4y-1				137		E
pqsnOAum	4y-2				131		E
pe?enAum	72-1	3F12	3F16	3F1	3F1y	17Fy3	I I b
pe?enAum	-2	17F33	16FJ	1yF21	16F 0	7F42	I I b
pe?enAum	7-2	2Fy0	2F44	2F01	2F42	4F60	I I b
pAqon	27-1	2J F2J	0026Fy7	01yJF00	01y4F43	yFy4	I I b
pAer	13 -1	3F3	3F11	3F3J	3F3J	20F12	I I b
pAer	13J-1	3F3	3F37	3F36	3F3	7F1	I I b
poOAum	20-2	244F7	202F	243F20	20JF2J	2Fyy	I I b
p&on&Aum	76-1	1JF70	22F36	21F0y	21F37	yF0J	I I b
p&on&Aum	77-1	1JF7y	21FJ6	21F23	21F33	yF13	I I b
pu?ur	04-1	-000 Fy3	-24y4FJ1	-0102FJ0	-2J yF11		I I b
i erbAum	1yJ-1				13y		E
i erbAum	1yJ-2				132		E
i %sPAum	230-1	3F23	3F2y	3F24	3F20	11Fy	I I b
i %sPAum	23y-1	3F21	3F2	3F24	3F24	11FJy	I I b
i An	117-1	1F1J	1F43	1F0J	1F02	JF31	I I b
i A&snAum	4 -1	44Fy6	721F60	73F	72F02	4FJ0	I I b
UrsnAum	207-1	1F 0	1FJy	1F72	1F70	yFJ6	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psml Re:D :9	S0463-37	Dw&umne&Nsme:9	87
RFen&psml Re:D :9	c46M2	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2320-3 -14:169IJ922	t s&s. Ae:Nsme:9	344c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&w
VsnsOAum	y1-2	y3F63	4JF44	y3F67	y3F24	1F07	I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	7J-1				112		E
Y&&Aum	7J-2				134		E
ZAnq	66-2	13 F40	136F4	137Fy3	13 F4	3FJ4	I I b
ZAqonAum	J3-1	0F33	0F27	0F13	0F10	4F61	I I b
ZAqonAum	J1-1	2F 2	0F23	0F3	0F33	7F26	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0463-37	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	c46y 0	t Au&on:Faq&or:9	1
t a&:T:i Ame:c qduAeO.9	2320-3 -14:169229 24	t a&aFAe:Name:9	345c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gM:v onqU	v onqCpt	RnA&s
c lumAAum	2 -2	17468U14	17052U1	18757U02	17257U88	1U08	I I b
c n&Amonh	121-1	3U11	3U14	3U16	3U14	23U2	I I b
c rsenAq	5-2	0U50	0U44	0U64	0U54	2U82	I I b
BarAum	105-1	101U47	101U2	105U61	102U7	1U84	I I b
BarAum	10 -1	102U21	104U20	100U17	100U21	3U6	I I b
BerhlIAum	7-1	1U37	3U7	1U32	1U30	5U67	I I b
BAsmu&%	237-1				134		E
BAsmu&%	237-2				132		E
BromAne	81-1						ql s
v aOmAum	138-1	3U61	3U0	3U82	3U63	06U72	I I b
v aOmAum	136-1	-1U8	-3U	-3U12	-3U72		I I b
v aOmAum	111-1	-3U32	3U37	3U11	3U36	110U24	I I b
v alqAum	40-1	2726U3	2745U21	278 U7	2750U32	1U3	I I b
v alqAum	44-1	2754U70	2712U81	2727U5	2702U53	3U2	I I b
v arbon	12-1						ql s
v arbon	12-2						ql s
v %orAne	05-1						ql s
v %orAne	05-2						ql s
v %omAum	52-2	05U45	04U0	05U12	05U13	1U30	I I b
v obal&	57-2	15U34	14U62	14U63	14U5	1U67	I I b
v ol I er	60-2	2 U41	2 U14	26U4	2 U13	1U24	I I b
t hsI rosAum	156-1						ql s
t hsI rosAum	156-2						ql s
. rbAum	164-1						ql s
. rbAum	164-2						ql s
GaOolAAum	163-1						ql s
GaOolAAum	163-2						ql s
HolmAum	165-1				136		E
HolmAum	165-2				134		E
DnOAum	115-1				136		E
DnOAum	115-2				131		E
Don	54-2	01031U14	037 8U75	035 U31	03752U0	1U1	I I b
Don	56-2	03321U7	27 6U6	27832U80	2786 U13	3U45	I I b
Don	5 -2	28676U1	28604U4	28286U80	28507U04	3U	I I b
KrhI &on	80-1						ql s
LeaO	236-1	12U70	12U60	10U32	12U86	1U5	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0463-37	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	c46y 0	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2320-3 -14:169229 24	t a&aFAe:Name:9	345c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gM:v onqU	v onqCpt	RnA&s
LeaO	23 -1	12U45	11U84	12U40	12U24	2U84	I I b
LeaO	238-1	12U3	12U43	12U5	12U56	1U17	I I b
LA%Am	6-1				135		E
y aMhesAm	24-2	041U83	222U4	1 7U68	24 U78	1U16	I I b
y anManese	55-2	084U43	083U44	0 7U86	081U5	3U65	I I b
y olhbOenum	74-1	7U61	8U	8U85	7U38	5U12	I I b
y olhbOenum	75-1	3U4	3U47	3U50	3U47	6U3	I I b
y olhbOenum	76-1	1U51	1U08	1U51	1U46	5U25	I I b
y olhbOenum	7 -1	3U5	3U50	3U56	3U56	0U64	I I b
y olhbOenum	78-1	3U56	3U46	3U53	3U51	7U8	I I b
NeoChmAm	153-1						ql s
NeoChmAm	153-2						ql s
NAqkel	63-2	28U68	28U08	2 U8	28U28	1U62	I I b
P%osI %orus	01-2	835U48	8 5U8	736U	862U1	6U32	I I b
Po&assAm	07-2	2172U82	2118U2	2132U46	210 U85	2U26	I I b
C%oOAm	130-1				135		E
C%oOAm	130-2				135		E
pqanOAm	45-1				137		E
pqanOAm	45-2				130		E
pelenAm	82-1	3U30	3U5	3U26	3U27	75U11	I I b
pelenAm	-2	10U87	21U78	12U80	16U20	03U85	I I b
pelenAm	8-2	2U20	2U16	2U85	2U41	15U61	I I b
pAAqon	28-1	2480U33	2422U17	2465U81	245 U33	1U28	I I b
pAger	13 -1	3U3	3U36	3U38	3U3	1 U77	I I b
pAger	137-1	3U36	3U3	3U36	3U36	7U76	I I b
poOAm	20-2	44U27	00U67	27U56	05U85	1U30	I I b
p&onA&m	86-1	23U70	23U53	21U2	21U35	2U70	I I b
p&onA&m	88-1	21U26	23U55	21U15	23U77	1U82	I I b
pulfur	04-1	-2 63U46	-275 U86	-283 U76	-2842U37		I I b
i erbAm	157-1				135		E
i erbAm	157-2				134		E
i %allAm	230-1	3U24	3U23	3U24	3U20	13U32	I I b
i %allAm	235-1	3U25	3U22	3U21	3U22	7U2	I I b
i An	118-1	3U	3U6	3U8	3U4	U7	I I b
i A&anAm	4 -1	8 5U60	846U4	8 5U36	865U81	1U71	I I b
RranAm	208-1	1U66	1U6	1U4	1U67	2U50	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0463-37	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	c46y 0	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2320-3 -14:169229 24	t a&aFAe:Name:9	345c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	51-2	47U13	47U60	48U61	47U11	1U34	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	87-1				137		E
Y&&Aum	87-2				135		E
ZAnq	66-2	62U45	61U62	63U75	61U6	1U22	I I b
ZAqonAum	73-1	5U11	5U1	5U22	5U1	1U32	I I b
ZAqonAum	71-1	5U13	5U30	5U05	5U16	0U17	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-13	Dns&umne&Name :	P8
RIAn&pamI le D :	c46M9	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:29:27	t a&a. Ae Name :	346c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
clumAnAum	27-2	10120F96	10142F48	10301F42	103yyF19	3F49	I I b
cn&Amonh	121-1	0F24	0F30	0F14	0F14	0F21	I I b
crsenAq	79-2	17F97	17F08	17F93	17F4y	3F94	I I b
BarAum	109-1	299F88	24yF26	297F44	294F1y	1F71	I I b
BarAum	107-1	29yF74	294F04	297F6y	297F26	1F36	I I b
BerhlIAum	y-1	1F1y	1F29	1F26	1F20	0F49	I I b
BAsmu&%	23y-1				134		E
BAsmu&%	23y-2				130		E
BromAne	81-1						ql s
RaOmAum	138-1	4F86	4Fy1	9F13	4Fy6	2F93	I I b
RaOmAum	136-1	9F68	0Fy8	0F39	4F24	01F06	I I b
RaOmAum	111-1	0F87	0F70	0F78	0F7y	1F7y	I I b
RalqAum	40-1	y910F09	y600F88	y4y6F03	y947F84	3F7y	I I b
RalqAum	44-1	y7yyF02	y839F69	y782F92	y7y9F80	3F12	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
R%orAne	09-1						ql s
R%orAne	09-2						ql s
R%omAum	92-2	121F38	11yF79	118F97	11yF83	1F39	I I b
Robal&	9y-2	21F68	21F2y	21F96	21F91	3Fy2	I I b
RoI I er	60-2	143F29	10yF26	10yF18	10yF96	3F40	I I b
t hsI rosAum	196-1						ql s
t hsI rosAum	196-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
GaOolAnAum	163-1						ql s
GaOolAnAum	163-2						ql s
HolmAum	169-1				137		E
HolmAum	169-2				134		E
DnOAum	119-1				113		E
DnOAum	119-2				132		E
Don	94-2	93234F9y	93180F11	93431F92	93260F37	3F24	I I b
Don	96-2	4y814F07	47984Fy7	48142F63	48910Fy8	2F0y	I I b
Don	97-2	93340Fy7	93177F08	4y06yF73	4y860F6y	3F87	I I b
KrhI &on	80-1						ql s
LeaO	236-1	2y6F22	031F78	2y6Fyy	2y8F00	1F31	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-13	Dns&umne&Name :	P8
RIAen&pamI le D :	c46M9	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:29:27	t a&a. Ae Name :	346c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
LeaO	237-1	287F74	287F26	2y2F47	28yF19	1F33	I I b
LeaO	238-1	034Fy3	038F03	037F14	036F78	3F96	I I b
LA%Am	6-1				137		E
MagnesAm	24-2	0y47F07	4340Fy2	4304Fy3	4338F70	1F00	I I b
Manganese	99-2	1472F19	1491F84	1467F97	1460F89	3F70	I I b
MolhbOenum	y4-1	4F01	4F44	4F6y	4F48	4F26	I I b
MolhbOenum	y9-1	2F70	2F8y	2Fy4	2F86	0F86	I I b
MolhbOenum	y6-1	0F36	0F29	2Fy7	0F3y	4F69	I I b
MolhbOenum	y7-1	2Fy1	0F33	0F34	2Fy8	2F10	I I b
MolhbOenum	y8-1	2F7y	2Fy9	2Fy8	2Fy1	0F93	I I b
NeoChmAm	193-1						ql s
NeoChmAm	193-2						ql s
NAqkel	63-2	27F38	27F11	27F86	27F09	1F62	I I b
P%osI %orus	01-2	20y3F40	2271Fy2	2096F13	200yF48	2F61	I I b
Po&assAm	0y-2	822F10	823F93	802F04	824Fyy	3F78	I I b
5%oOAm	130-1				113		E
5%oOAm	130-2				134		E
pqanOAm	49-1				113		E
pqanOAm	49-2				130		E
pelenAm	82-1	3F82	3Fy7	3F82	3F87	13F38	I I b
pelenAm	77-2	20F80	18F98	14F30	18F81	26F38	I I b
pelenAm	78-2	0F14	9F22	4F13	4F19	29F12	I I b
pAAqon	28-1	2y87F06	0370F83	2y94F3y	0339F38	2F36	I I b
pAver	137-1	3Fy8	3Fy4	3Fyy	3Fy7	2F97	I I b
pAver	13y-1	3Fy4	3Fy2	1F30	3Fy6	6F47	I I b
poOAm	20-2	1260F84	1298F00	1263F8y	1261F32	3F22	I I b
p&on&Am	86-1	64F09	64F1y	69F26	64F63	3F8y	I I b
p&on&Am	88-1	60F62	69F16	69F20	64F67	1F41	I I b
pulfur	04-1	4074F80	4472F87	4344F42	42y7F07	9F22	I I b
i erbAm	19y-1				138		E
i erbAm	19y-2				139		E
i %allAm	230-1	3F21	3F23	3F18	3F23	7F89	I I b
i %allAm	239-1	3F21	3F21	3F22	3F21	1Fyy	I I b
i An	118-1	19F73	19F34	19F67	19F47	2F40	I I b
i &anAm	47-1	060F3y	064F93	092F99	063F39	1F81	I I b
UranAm	208-1	2F94	2F90	2F91	2F90	3F64	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-13	Dns&umne&Name :	P8
RIAn&pamI le D :	c46M9	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 16:29:27	t a&a. Ae Name :	346c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
VanaOAum	91-2	62F82	62F44	62Fy4	62F70	3F41	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	8y-1				114		E
Y&&Aum	8y-2				139		E
ZAnq	66-2	636F27	9y9F78	9y0F38	9y8F08	1F16	I I b
ZAqonAum	y3-1	1F3y	1F18	1F29	1F17	6F74	I I b
ZAqonAum	y1-1	1F10	1F14	1F17	1F14	1F74	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeatOe:	Jaswal
Lamr au plb ID :	S 0463-11	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	A46g 6	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2320-37-14 16:29:26	DataCilb 8 au b :	347An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	27-2	M446.32	M032.y7	M2yM39	M00y.9M	1.3y	ppm
Aotiu Ooh	121-1	1.69	1.76	1.90	1.76	4.07	ppm
Aesboic	7y-2	7.47	6.M9	7.27	7.24	0.07	ppm
BaeiNu	10y-1	133.M4	133.6M	133.42	133.6M	3.26	ppm
BaeiNu	107-1	132.74	131.93	133.y1	131.6M	1.13	ppm
BbehlliNu	M-1	3.66	3.y9	3.63	3.62	6.9M	ppm
Bisu Nt%	23M-1				130		E
Bisu Nt%	23M-2				131		E
BeOu iob	91-1						cps
Uadu iNu	139-1	2.62	2.6y	0.34	2.77	9.4y	ppm
Uadu iNu	136-1	1.20	-3.26	3.62	3.y0	143.M6	ppm
Uadu iNu	111-1	0.09	0.11	0.2y	0.2y	4.10	ppm
UalciNu	40-1	264M93	2694.6y	2602.3y	26yy.y3	1.31	ppm
UalciNu	44-1	2699.2y	2690.9M	2609.y1	2673.22	1.30	ppm
UaemOo	12-1						cps
UaemOo	12-2						cps
U%Oeiob	0y-1						cps
U%Oeiob	0y-2						cps
U%eOu iNu	y2-2	M4.76	M2.30	M2.99	M0.22	1.y3	ppm
UOmalt	yM-2	7.y1	7.19	7.39	7.26	0.12	ppm
UOppbe	60-2	11MMM	116.y2	119.71	119.43	1.49	ppm
DhspeOsiNu	1y6-1						cps
DhspeOsiNu	1y6-2						cps
5 emiNu	164-1						cps
5 emiNu	164-2						cps
GadOlioiNu	163-1						cps
GadOlioiNu	163-2						cps
HOlu iNu	16y-1				13y		E
HOlu iNu	16y-2				132		E
IodiNu	11y-1				136		E
IodiNu	11y-2				MM		E
IeOo	y4-2	14096.M9	10M29.y2	10M39.69	14374.70	1.M2	ppm
IeOo	y6-2	14y12.20	14133.0M	14201.M1	14291.y1	1.47	ppm
IeOo	y7-2	1096y.04	10y01.M4	107y6.46	10717.M1	1.24	ppm
KehptOo	90-1						cps
Lbad	236-1	03y.y2	007.y7	2M9.67	010.M2	6.62	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeatOe:	Jaswal
Lamr au plb ID :	S 0463-11	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	A46g 6	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2320-37-14 16:29:26	DataCilb 8 au b :	347An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oits
Lbad	237-1	2M6.M6	2MM42	2M0.12	2M6.y3	1.37	ppm
Lbad	239-1	016.22	026.y0	037.77	016.94	2.M6	ppm
Lit%iNu	6-1				13y		E
g avobsiNu	24-2	2602.02	2y6M16	2y27.47	2y76.02	2.3y	ppm
g aovaobsb	yy-2	2yy.10	240.4y	246.7M	249.46	2.42	ppm
g OhmdboNu	M4-1	2.33	1.MM	1.96	1.My	4.13	ppm
g OhmdboNu	My-1	1.19	1.14	1.17	1.16	1.M0	ppm
g OhmdboNu	M6-1	1.26	1.29	1.19	1.24	4.y2	ppm
g OhmdboNu	M7-1	1.0y	1.27	1.1M	1.27	6.07	ppm
g OhmdboNu	M9-1	1.29	1.22	1.20	1.24	2.01	ppm
8 bOdhu iNu	1y3-1						cps
8 bOdhu iNu	1y3-2						cps
8 ickbl	63-2	19.97	17.y2	17.40	17.M4	4.4M	ppm
P%Osp%OeNs	01-2	123y.9M	1221.23	121y.y1	1214.23	3.64	ppm
POtassiNu	0M-2	63y.36	y97.MM	yM4.0y	yMy.93	1.4y	ppm
n %OdiNu	130-1				137		E
n %OdiNu	130-2				132		E
r caodiNu	4y-1				139		E
r caodiNu	4y-2				131		E
r blboiNu	92-1	3.26	3.1M	3.00	3.26	2y.0M	ppm
r blboiNu	77-2	9.43	9.24	0.33	6.yy	46.99	ppm
r blboiNu	79-2	2.72	0.y3	1.07	2.y0	42.40	ppm
r ilicOo	29-1	1762.42	1709.32	17y0.17	17y1.23	3.73	ppm
r ilRbe	137-1	1.42	1.42	1.04	1.43	0.14	ppm
r ilRbe	13M-1	1.06	1.06	1.07	1.06	3.7y	ppm
r OdiNu	20-2	01y.y2	03y.39	2M1.41	034.33	0.M9	ppm
r teOotiNu	96-1	24.y4	20.69	20.96	24.32	1.M3	ppm
r teOotiNu	99-1	24.62	24.01	20.69	24.23	1.M9	ppm
r NifNe	04-1	1660.30	1641.70	1yy3.M9	1619.y9	0.69	ppm
TbemiNu	1yM-1				136		E
TbemiNu	1yM-2				132		E
T%alliNu	230-1	3.16	3.16	3.14	3.1y	7.47	ppm
T%alliNu	23y-1	3.16	3.16	3.14	3.1y	y.44	ppm
Tio	119-1	11.73	11.y9	12.19	11.92	2.71	ppm
TitaoiNu	47-1	293.y9	2M2.71	270.y1	292.27	0.44	ppm
F eaoiNu	209-1	1.22	1.02	1.24	1.26	0.M0	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeatOe:	Jaswal
Lamr au plb ID :	S 0463-11	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	A46g 6	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2320-37-14 16:29:26	DataOilb 8 au b :	347An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	y1-2	06.9y	07.1y	06.4y	06.92	3.M6	ppm
YttbemiNu	172-1						cps
YttbemiNu	172-2						cps
YttbemiNu	176-1						cps
YttbemiNu	176-2						cps
YtteiNu	9M-1				13M		E
YtteiNu	9M-2				131		E
Zioc	66-2	042.y0	027.41	02y.y6	001.90	2.91	ppm
ZiecOoiNu	M3-1	3.49	3.y2	3.47	3.4M	y.14	ppm
ZiecOoiNu	M1-1	3.4y	3.42	3.y1	3.46	13.00	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-12	Dns&umne&Name :	P8
RIAen&pamI le D :	c46M7	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:01:29	t a&a. Ae Name :	348c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
clumAnAum	27-2	10062F72	10662F64	1098yF93	10908F2y	1F16	I I b
cn&Amonh	121-1	3F11	3F13	3F14	3F11	16F72	I I b
crsenAq	79-2	4F06	4F3y	4F16	4F23	0F01	I I b
BarAum	109-1	80F78	7yF23	81F40	81F47	2F31	I I b
BarAum	107-1	89F12	81F33	82F98	80F17	2F38	I I b
BerhlIAum	y-1	3F66	3F64	3F60	3F64	2Fy8	I I b
BAsmu&%	23y-1				139		E
BAsmu&%	23y-2				130		E
BromAne	81-1						ql s
RaOmAum	138-1	3F30	3F10	3F18	3F11	6yF38	I I b
RaOmAum	136-1	1F02	-2F92	-3F71	-3F64		I I b
RaOmAum	111-1	3F20	-3F36	3F11	3F3y	198F34	I I b
RalqAum	40-1	4321Fy4	0893F74	4339F37	0y9yF92	2F0y	I I b
RalqAum	44-1	4302F04	08y4Fy6	4346F96	0yy1F2y	2F13	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
R%orAne	09-1						ql s
R%orAne	09-2						ql s
R%omAum	92-2	40F67	44Fy0	44F94	44F08	1F49	I I b
Robal&	9y-2	10F0y	10F43	10F07	10F0y	3F12	I I b
RoI I er	60-2	46F72	46F79	47F34	46F84	3F08	I I b
t hsI rosAum	196-1						ql s
t hsI rosAum	196-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
GaOolAnAum	163-1						ql s
GaOolAnAum	163-2						ql s
HolmAum	169-1				136		E
HolmAum	169-2				137		E
DnOAum	119-1				138		E
DnOAum	119-2				134		E
Don	94-2	03101F10	2yy22F37	2y673F38	2yy37F76	3F77	I I b
Don	96-2	2y123F16	2y319F08	28797F13	28y64F21	3F69	I I b
Don	97-2	27984F74	27633F99	27789F66	27696Fy8	3F43	I I b
KrhI &on	80-1						ql s
LeaO	236-1	11F36	13F84	13F9y	13F80	2F17	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-12	Dns&umne&Name :	P8
RIAen&pamI le D :	c46M7	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:01:29	t a&a. Ae Name :	348c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
LeaO	237-1	13F98	13F41	13F78	13F9y	1F70	I I b
LeaO	238-1	13F62	13F69	13F77	13F68	3F72	I I b
LA%Am	6-1				136		E
MagnesAm	24-2	y310F32	y102Fy2	y932F70	y216F22	2F77	I I b
Manganese	99-2	083F16	081F20	082F93	081F03	3F01	I I b
MolhbOenum	y4-1	2F19	2F2y	2F08	2F27	9F3y	I I b
MolhbOenum	y9-1	3F41	3F46	3F41	3F40	6F78	I I b
MolhbOenum	y6-1	3F74	3F68	3F70	3F72	9F32	I I b
MolhbOenum	y7-1	3F96	3F46	3F49	3F4y	12F44	I I b
MolhbOenum	y8-1	3F47	3F40	3F93	3F47	6F31	I I b
NeoOhmAm	193-1						ql s
NeoOhmAm	193-2						ql s
NAqkel	63-2	06F66	06F91	06F89	06F67	3F47	I I b
P%osI %orus	01-2	1919F70	1076F49	1967F24	1486F47	6F64	I I b
Po&assAm	0y-2	2044F36	243yF61	2089F70	207yF83	1F0y	I I b
5%oOAm	130-1				138		E
5%oOAm	130-2				137		E
pqanOAm	49-1				13y		E
pqanOAm	49-2				139		E
pelenAm	82-1	3F71	3F37	-3F13	3F20	187F93	I I b
pelenAm	77-2	yF62	23F73	16F82	19F71	09F83	I I b
pelenAm	78-2	1Fy6	2F48	2F10	2F1y	12F30	I I b
pAAqon	28-1	2111F43	1y81F44	2388F92	2363F49	0F07	I I b
pAver	137-1	3F37	3F39	3F37	3F36	23F80	I I b
pAver	13y-1	3F36	3F36	3F37	3F36	4F49	I I b
poOAm	20-2	229F31	220F1y	229Fy6	224F72	3F62	I I b
p&on&Am	86-1	14F61	19F31	16F34	19F22	4F80	I I b
p&on&Am	88-1	19F0y	14F66	19F97	19F21	0F16	I I b
pulfur	04-1	-29y8F21	-2y88Fy6	-24y7F93	-26y4F8y		I I b
i erbAm	19y-1				138		E
i erbAm	19y-2				134		E
i %allAm	230-1	3F13	3F11	3F13	3F13	0F46	I I b
i %allAm	239-1	3F11	3F12	3F13	3F11	7F82	I I b
i An	118-1	3F64	3F9y	3F69	3F60	9F68	I I b
i A&anAm	47-1	y48F90	y37Fy4	y61F86	y0yF44	2Fyy	I I b
UranAm	208-1	3F81	3F89	3F84	3F80	2F16	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-12	Dns&umne&Name :	P8
RIAn&pamI le D :	c46M7	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 16:01:29	t a&a. Ae Name :	348c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
VanaOAum	91-2	93F86	91F07	91F9y	91F27	3F70	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	8y-1				112		E
Y&&Aum	8y-2				136		E
ZAnq	66-2	73F49	6yF06	6yF03	6yF73	3Fy0	I I b
ZAqonAum	y3-1	1F38	1F39	1F10	1F3y	0F87	I I b
ZAqonAum	y1-1	1F32	1F12	1F39	1F37	4F76	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-10	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A4683	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:04:27	DJtJ. iwb 8 Ju b :	34nA5C. Fd

I JeJu btbe	MJaa	ROo5bp1	ROo5bp2	ROo5bp0	AvgFROocF	ROoc5r D	Uoita
AwNu ioiNu	27-2	2436PFy4	24167F20	20n40F20	243ynF67	3F47	ppm
Aotiu Ooh	121-1	3F11	3F13	3F14	3F12	1nF14	ppm
Aeaboic	7y-2	6F40	6F7n	6F03	6Fy1	0FPn	ppm
BJeiNu	10y-1	13nF71	137F03	137F66	13PF22	1F23	ppm
BJeiNu	107-1	113F00	111Fy2	13PFny	113F27	1F17	ppm
BbehwiNu	n-1	1F76	1F72	1F70	1F74	1F14	ppm
Biau Nt%	23n-1				13y		E
Biau Nt%	23n-2				133		E
BeOu iob	P1-1						cpa
RJdu iNu	13P-1	3F4n	3F4n	3F67	3Fyy	1nFyP	ppm
RJdu iNu	136-1	1F24	-1F77	-2Fn3	-1F14		ppm
RJdu iNu	111-1	3F43	3F3n	3F3P	3F1n	nyF30	ppm
RJwiNu	40-1	4771F1y	4n30F2P	4n4nFn3	4P74F7P	1Fn3	ppm
RJwiNu	44-1	y1PPFP1	y012F77	y262F2y	y2y4F61	1F1n	ppm
RJemOo	12-1						cpa
RJemOo	12-2						cpa
R%wOeiob	0y-1						cpa
R%wOeiob	0y-2						cpa
R%eOu iNu	y2-2	41F16	43Fnn	43F26	43FP3	1F1P	ppm
ROmJw	yn-2	22Fny	22F7P	22Fy6	22F76	3FP6	ppm
ROppbe	60-2	0yF46	0yFP7	0yF12	0yF4P	1F36	ppm
DhapeOaiNu	1y6-1						cpa
DhapeOaiNu	1y6-2						cpa
CemiNu	164-1						cpa
CemiNu	164-2						cpa
GJdOiwoiNu	163-1						cpa
GJdOiwoiNu	163-2						cpa
HOw iNu	16y-1				13P		E
HOw iNu	16y-2				132		E
IodiNu	11y-1				13P		E
IodiNu	11y-2				nn		E
IeOo	y4-2	y2660F27	y0466F76	y1P13F4y	y2646FP2	1Fy7	ppm
IeOo	y6-2	y3n4nFy2	y2322Fy6	4n734F11	y3Pn2F36	2F2P	ppm
IeOo	y7-2	y2423F21	y247PF06	y1y01FP3	y2140F46	1F32	ppm
KehptOo	P0-1						cpa
LbJd	236-1	1nFn0	23F13	1nF64	1nFPn	1F16	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-10	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A4683	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:04:27	DJtJ. iwb 8 Ju b :	34nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
LbJd	237-1	1nF36	1nF23	1PFn7	1nF3P	3F63	ppm
LbJd	23P-1	1nF47	1nF63	1nF07	1nF4P	3F61	ppm
Lit%iNu	6-1				136		E
MJgobaiNu	24-2	Pn7PFn2	n201F30	PP23F12	n313F32	2F03	ppm
MJogJobab	yy-2	777F30	7n2F11	771FPn	7P3F04	1F0y	ppm
MOlwmdboNu	n4-1	6F04	6F1y	6F33	6F16	2F76	ppm
MOlwmdboNu	ny-1	3Fy0	3F42	3Fyy	3Fy3	14F07	ppm
MOlwmdboNu	n6-1	1F24	1F20	1F12	1F23	yF7y	ppm
MOlwmdboNu	n7-1	3Fyn	3Fy7	3Fy1	3Fy6	7F44	ppm
MOlwmdboNu	nP-1	3Fyy	3F4n	3Fy1	3Fy2	yF1P	ppm
8 bOdhu iNu	1y3-1						cpa
8 bOdhu iNu	1y3-2						cpa
8 ickbw	63-2	40F26	44F02	40F13	40Fy6	1Fy2	ppm
I %Oap%OeNa	01-2	174PFP4	177PFy6	1P32Fnn	1776FP3	1Fy0	ppm
I OtJaaiNu	0n-2	20n3F33	24y0F46	204nFP2	20n7F76	2F1P	ppm
5 %OdiNu	130-1				136		E
5 %OdiNu	130-2				132		E
r cJodiNu	4y-1				113		E
r cJodiNu	4y-2				131		E
r bwboiNu	P2-1	-3F26	3F22	3Fy0	3F16	24yFPy	ppm
r bwboiNu	77-2	24F2P	26F1P	22F2P	24F2y	PF34	ppm
r bwboiNu	7P-2	4F24	4FyP	4Fy2	4F4y	4F13	ppm
r iwcOo	2P-1	07n6FP0	0n3nFP2	0n14F23	0P70F62	1F72	ppm
r iwbe	137-1	3F36	3F34	3F3y	3F3y	27F20	ppm
r iwbe	13n-1	3F3y	3F31	3F30	3F30	6PF61	ppm
r OdiNu	20-2	1y3FPy	1yPF70	1yyF14	1y4Fn1	2Fyy	ppm
r teOotiNu	P6-1	y7F16	y2F32	yyF11	y4F76	4F70	ppm
r teOotiNu	PP-1	y6Fnn	y0Fy3	y4Fn2	yyF14	0F1n	ppm
r NwNe	04-1	-2Py6F02	-2Py4F10	-2ny2F62	-2PP7F6n		ppm
TbemiNu	1yn-1				137		E
TbemiNu	1yn-2				133		E
T%JwiNu	230-1	3F21	3F20	3F24	3F20	6F62	ppm
T%JwiNu	23y-1	3F22	3F22	3F20	3F20	0F77	ppm
Tio	11P-1	3Fn2	3Fn3	3Fn3	3Fn3	1F20	ppm
TitJoiNu	47-1	131yF66	13y7F76	1342Fy6	130PF66	2F3y	ppm
UeJoiNu	20P-1	2F22	2F23	2F21	2F21	3F0n	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-10	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A468 3	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:04:27	DJtJ. iwb 8 Ju b :	34nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	y1-2	74FP1	74Fyn	74F67	74F6n	3F1y	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Pn-1				110		E
YtteiNu	Pn-2				130		E
Zioc	66-2	13yF66	13yF24	13yF73	13yFy0	3F24	ppm
ZieccOoiNu	n3-1	0F20	0F26	0F14	0F21	2F32	ppm
ZieccOoiNu	n1-1	0F21	0F10	2Fn7	0F13	0Fn7	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-14	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46M4	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:07:24	DJtJ. iwb 8 Ju b :	3n3A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	27-2	1P416F3P	173P1F4P	1Pn00F44	1P313F00	4F4P	ppm
Aotiu Ooy	121-1	3F37	3F13	3F12	3F13	22Ffn7	ppm
Aeaboic	7n-2	2F04	2F1n	2Ffn1	2F00	7F60	ppm
BJeiNu	10n-1	h2F2n	hnFP1	hnF42	h4F4h	2F37	ppm
BJeiNu	107-1	h4F47	h7F2P	h7F2h	h6F0n	1F6P	ppm
BbeywiNu	h-1	3FfnP	3Ffn6	3Ffn4	3Ffn6	1Ffnh	ppm
Biau Nt%	23h-1				132		E
Biau Nt%	23h-2				134		E
BeOu iob	P1-1						cpa
RJdu iNu	13P-1	3F2n	3F01	3F0n	3F03	1nF3P	ppm
RJdu iNu	136-1	-3F27	3F31	-2F3h	-3F7P		ppm
RJdu iNu	111-1	3F3P	3F12	-3F31	3F36	111F32	ppm
RJwciNu	40-1	2h02F07	2hP3F60	2hnPF1P	2hn7F36	3FP2	ppm
RJwciNu	44-1	2hn1F24	2h72F0h	0327FP0	2hP0FP2	1F00	ppm
RJemOo	12-1						cpa
RJemOo	12-2						cpa
R%WOeiob	0n-1						cpa
R%WOeiob	0n-2						cpa
R%eOu iNu	n2-2	04Ffnh	02FP6	06F02	04F70	nF32	ppm
ROmJwv	nh-2	1nF24	14F14	1nFfn0	1nF13	nFfn7	ppm
ROppbe	60-2	03F03	2PF3h	03Ffn6	2hF6n	4Ffn7	ppm
DyapeOaiNu	1n6-1						cpa
DyapeOaiNu	1n6-2						cpa
CemiNu	164-1						cpa
CemiNu	164-2						cpa
GJdOiwoiNu	163-1						cpa
GJdOiwoiNu	163-2						cpa
HOw iNu	16n-1				13n		E
HOw iNu	16n-2				13n		E
IodiNu	11n-1				136		E
IodiNu	11n-2				132		E
IeOo	n4-2	02n76FP4	033P3F61	000nPF0n	0233nF26	nF0n	ppm
IeOo	n6-2	0111hF23	2PhP1F73	01h4hF7P	036P0Ffn6	4Ffnh	ppm
IeOo	n7-2	2hP46F00	27P2hFfn2	03P36Ffn6	2h4h4F27	nF1n	ppm
KeyptOo	P0-1						cpa
LbJd	236-1	10FP4	14F13	14F0n	14F13	1FP1	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-14	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46M4	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:07:24	DJtJ. iwb 8 Ju b :	3n3A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
LbJd	237-1	10F02	10Fn2	10F0h	10F41	3F7P	ppm
LbJd	23P-1	10F41	10F74	10FP6	10F67	1F71	ppm
Lit%iNu	6-1				13n		E
MJgobaiNu	24-2	746hF0n	6hPnF30	7670Fh7	7076F12	4FP3	ppm
MJogJobab	nn-2	030FnP	2P0F16	01PF0P	031F71	nFP6	ppm
MOymdboNu	h4-1	4F2h	4F46	4F03	4F0n	2F11	ppm
MOymdboNu	hn-1	3F1P	3F17	3F17	3F1P	0FP4	ppm
MOymdboNu	h6-1	3Fnh	3F62	3F73	3F64	hF04	ppm
MOymdboNu	h7-1	3F1h	3F1h	3F16	3F1P	13F42	ppm
MOymdboNu	hP-1	3F1P	3F1P	3F21	3F1h	PFP6	ppm
8 bOdyu iNu	1n3-1						cpa
8 bOdyu iNu	1n3-2						cpa
8 ickbw	63-2	2PFh4	27F06	2hF66	2PF6n	4F12	ppm
I %Oap%OeNa	01-2	7PPF44	671FP2	h30F47	7P7Fh1	14F73	ppm
I OtJaaiNu	0h-2	20nhF22	2121F33	2411F77	22h7F00	6F74	ppm
5 %OdiNu	130-1				130		E
5 %OdiNu	130-2				136		E
r cJodiNu	4n-1				136		E
r cJodiNu	4n-2				130		E
r bwboiNu	P2-1	3F24	-3F2h	3Fn3	3F1n	26PF6P	ppm
r bwboiNu	77-2	1hF02	PF34	12F16	10F17	40F06	ppm
r bwboiNu	7P-2	2Fh7	2F00	2F4h	2F63	12F74	ppm
r iwcOo	2P-1	0h47FPh	0h17Fh2	0h0hFn6	0h0nF12	3F0h	ppm
r iwbe	137-1	3F36	3F36	3F37	3F36	10F14	ppm
r iwbe	13h-1	3F37	3F37	3F3P	3F3P	11F30	ppm
r OdiNu	20-2	214Fn6	1h0FPn	221F27	23hFh3	6FP1	ppm
r teOotiNu	P6-1	1hF11	1hFP1	21F0P	23F13	nF7h	ppm
r teOotiNu	PP-1	1hF00	23F37	23F1P	1hFP6	2F04	ppm
r NwNe	04-1	-2n70F24	-2437F63	-207PF0h	-24n0F3P		ppm
TbemiNu	1nh-1				13n		E
TbemiNu	1nh-2				13n		E
T%JwiNu	230-1	3F1P	3F21	3F22	3F23	13Fh0	ppm
T%JwiNu	23n-1	3F22	3F2n	3F22	3F20	7Fn3	ppm
Tio	11P-1	3Fh4	1F30	3Fhn	3Fh7	4Fhn	ppm
TitJoiNu	47-1	P61Fn3	PP2F23	Ph4Fnn	P7hF41	1Fh3	ppm
UeJoiNu	20P-1	1F77	1F71	1FP3	1F76	2Fn4	ppm

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-14	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46M4	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:07:24	DJtJ. iwb 8 Ju b :	3n3A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n1-2	n1F6n	47F30	n1Fh0	n3F21	nF4P	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Ph-1				13h		E
YtteiNu	Ph-2				137		E
Zioc	66-2	60F7n	63F6P	64F63	60F31	0F27	ppm
ZieccOoiNu	h3-1	2F26	2F03	2F01	2F2h	1F23	ppm
ZieccOoiNu	h1-1	2F43	2F2h	2Fnn	2F41	nF40	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0463-17	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	c46M8	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2320-3 -14:169439.26	t a&a. Ae:Name:9	371c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	UnA&s
clumAnAum	2 -2	7226F3	7817F 7	7y17F13	7672F03	6F7y	I I b
cn&Amonh	121-1	1F38	1F30	1F3	1F36	2F	I I b
crsenAq	7-2	0F84	4F43	4F7	4F2	8Fy8	I I b
BarAum	107-1	83F13	81F 4	82F 2	81F72	1F60	I I b
BarAum	10 -1	81F70	84Fy2	82F16	82F8	2F1	I I b
BerhllAum	y-1	3F07	3F0y	3F41	3F08	8F18	I I b
BAsmu&%	23y-1				134		E
BAsmu&%	23y-2				13		E
BromAne	81-1						ql s
RaOmAum	138-1	1F10	1F72	1F10	1F26	1 Fy0	I I b
RaOmAum	136-1	1F17	1F04	3Fy4	1F17	1 F62	I I b
RaOmAum	111-1	1F72	1F78	1F44	1F71	4F47	I I b
RalqAum	40-1	0617F02	0 08F48	0672F28	0668F6y	1F 2	I I b
RalqAum	44-1	0667F0y	0 7yF83	062yF62	0684Fy4	1F80	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
R%orAne	07-1						ql s
R%orAne	07-2						ql s
R%omAum	72-2	00F2	0 F06	08F33	06F21	F38	I I b
Robal&	7y-2	7F 0	6F73	6F78	6F2	F48	I I b
RoI I er	60-2	4yFy3	77F38	76F84	70Fy4	6F6y	I I b
t hsI rosAum	176-1						ql s
t hsI rosAum	176-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
GaOolAnAum	163-1						ql s
GaOolAnAum	163-2						ql s
HolmAum	167-1				13		E
HolmAum	167-2				138		E
DnOAum	117-1				13y		E
DnOAum	117-2				137		E
Don	74-2	127y3F47	10822F36	14077F2	1078yF26	6F66	I I b
Don	76-2	12420F01	144y0F42	14 83F70	108yyF3y	yF27	I I b
Don	7 -2	12107F86	10 48F74	14334F3y	102y6F16	F62	I I b
KrhI &on	80-1						ql s
LeaO	236-1	1 Fy0	184F32	1 yF3	183F04	1F83	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0463-17	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	c46M8	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO:9	2320-3 -14:169439 26	t a&a. Ae:Name:9	371c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&s
LeaO	23 -1	1 2F77	1 6F28	1 4F 3	1 4F71	1F3	I I b
LeaO	238-1	180F8y	188F63	187F01	187Fy4	1F03	I I b
LA%Aum	6-1				137		E
MagnesAum	24-2	1yy4F04	2223F14	2224F41	2146F2y	6F10	I I b
Manganese	77-2	217Fy0	240F82	24yFy7	206F7	F66	I I b
MolhbOenum	y4-1	1F44	1F71	1F40	1F46	2Fy0	I I b
MolhbOenum	y7-1	3F6y	3F81	3F 3	3F 0	8Fy7	I I b
MolhbOenum	y6-1	3F 6	3F 0	3F y	3F 6	0F66	I I b
MolhbOenum	y -1	3F63	3F 7	3F66	3F6	11F0y	I I b
MolhbOenum	y8-1	3F	3F68	3F 8	3F 4	F6y	I I b
NeoOhmAum	173-1						ql s
NeoOhmAum	173-2						ql s
NAqkel	63-2	13F63	11F88	12F12	11F70	F3y	I I b
P%osI %orus	01-2	y68F3	1136F41	112yF 6	1368F38	8F18	I I b
Po&assAum	0y-2	781F4	6 2F03	670F70	607F	F74	I I b
5 %oOAum	130-1				13		E
5 %oOAum	130-2				113		E
pqanOAum	47-1				13		E
pqanOAum	47-2				136		E
pelenAum	82-1	3F3	-3F36	3F34	3F32	414F46	I I b
pelenAum	-2	4F1	2Fy2	13F16	7F 7	6 F2y	I I b
pelenAum	8-2	3Fy8	1F73	1F2y	1F26	23F 7	I I b
pAAqon	28-1	1702F38	1783F84	1740F82	1772F27	1F64	I I b
pAver	13 -1	3F47	3F48	3F46	3F4	0F41	I I b
pAver	13y-1	3F73	3F4y	3F72	3F73	0F66	I I b
poOAum	20-2	273F8y	288F60	2y7F 7	2 8F42	8F66	I I b
p&ona&um	86-1	1 F68	1 F02	18F61	1 F8	0F 3	I I b
p&ona&um	88-1	1 F8y	1 Fy8	18F16	18F31	3F	I I b
pulfur	04-1	-1 68F86	-1 11F46	-1603F46	-1 30F63		I I b
i erbAum	17y-1				13		E
i erbAum	17y-2				13		E
i %allAum	230-1	3F38	3F11	3F3	3F3y	27F2y	I I b
i %allAum	237-1	3F3y	3F10	3F11	3F11	17F21	I I b
i An	118-1	6F73	6F 0	6F64	6F62	1F 6	I I b
i A&anAum	4 -1	28 F8	288Fy1	28 F 7	288F18	3F22	I I b
UranAum	208-1	3F 6	3F y	3F 0	3F 6	0F66	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0463-17	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	c46M8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2320-3 -14:169439 26	t a&a. Ae:Name:9	371c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	UnA&s
VanaOAum	71-2	18F04	23F	21F68	23F26	8F70	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8y-1				113		E
Y&&Aum	8y-2				113		E
ZAnq	66-2	188F76	211Fy7	210F 0	234F 7	6F86	I I b
ZAqonAum	y3-1	3F40	3F40	3F48	3F47	6F34	I I b
ZAqonAum	y1-1	3F4	3F76	3F47	3F73	11Fy1	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-16	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46My	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:40:26	DJtJ. iwb 8 Ju b :	3n2A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	27-2	P076F60	Pn04Fyn	P414Fy2	P442F17	3FyP	ppm
Aotiu Ooh	121-1	1FP4	1FP1	1Fy6	1FP7	4F41	ppm
Aeaboic	7n-2	PFy0	yF23	yF60	yF2n	0FP1	ppm
BJeiNu	10n-1	y2F31	y1F02	y3F71	y1F0n	3F71	ppm
BJeiNu	107-1	y0F4P	y3F00	y4F6P	y2FP0	2F42	ppm
BbehwiNu	y-1	3F6y	3F6y	3F6P	3F6y	3Fn1	ppm
Biau Nt%	23y-1				13P		E
Biau Nt%	23y-2				133		E
BeOu iob	P1-1						cpa
RJdu iNu	13P-1	1F72	1F63	1F26	1Fn2	1nF73	ppm
RJdu iNu	136-1	0F1n	1F00	1F71	2F36	46F46	ppm
RJdu iNu	111-1	1F7n	1FnP	1F61	1F6n	nFn2	ppm
RJwoiNu	40-1	224PFn6	203nF02	2430F7n	201yF21	0F0y	ppm
RJwoiNu	44-1	2200F23	22n6Fny	2411Fy6	2033FnP	4F22	ppm
RJemOo	12-1						cpa
RJemOo	12-2						cpa
R%WOeiob	0n-1						cpa
R%WOeiob	0n-2						cpa
R%eOu iNu	n2-2	n1Fy2	n1FP3	n2F76	n2F16	1F33	ppm
ROmJwv	ny-2	14F3y	14Fn1	14F2y	14F03	1F44	ppm
ROppbe	60-2	134FyP	137F3P	13nF16	13nF74	1F13	ppm
DhapeOaiNu	1n6-1						cpa
DhapeOaiNu	1n6-2						cpa
CemiNu	164-1						cpa
CemiNu	164-2						cpa
GJdOwoiNu	163-1						cpa
GJdOwoiNu	163-2						cpa
HOw iNu	16n-1				111		E
HOw iNu	16n-2				131		E
IodiNu	11n-1				110		E
IodiNu	11n-2				yy		E
IeOo	n4-2	4nyP1FPn	460y2Fn7	466nyF14	46044Fn2	3F74	ppm
IeOo	n6-2	44P06Fn4	46401F46	4n621F03	4n62yF77	1F7n	ppm
IeOo	n7-2	4n767F17	47P2yFyP	4ny2nF7P	46n37F64	2F47	ppm
KehptOo	P0-1						cpa
LbJd	236-1	1y7F47	232F46	210Fn1	234F4P	4F31	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-16	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46My	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:40:26	DJtJ. iwb 8 Ju b :	3n2A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
LbJd	237-1	1y7F22	1y2Fy6	23PFn6	1yyFnP	4F34	ppm
LbJd	23P-1	23yF0y	237Fy1	221F31	212F77	0F07	ppm
Lit%iNu	6-1				13y		E
MJgobaiNu	24-2	002nF72	0076Fn3	0030F0P	000nF23	1F12	ppm
MJogJobab	nn-2	1134F04	1141F43	1110F13	111yF62	1F70	ppm
MOlwmdboNu	y4-1	2Fn0	2F4n	2F64	2Fn4	0F7y	ppm
MOlwmdboNu	yn-1	1F37	3Fy0	1F31	1F33	7F31	ppm
MOlwmdboNu	y6-1	1F16	1F1y	1F1P	1F1P	1F26	ppm
MOlwmdboNu	y7-1	1F10	1F33	1F22	1F11	yF63	ppm
MOlwmdboNu	yP-1	3FyP	1F33	1F3P	1F32	nF3P	ppm
8 bOdhu iNu	1n3-1						cpa
8 bOdhu iNu	1n3-2						cpa
8 ickbw	63-2	02Fyy	00F7P	00F24	00F00	1F22	ppm
I %Oap%OeNa	01-2	1207F2n	1210F43	1236Fy6	121yF23	1F01	ppm
I OtJaaiNu	0y-2	n23Fy3	n02Fn6	n21Fnn	n2nF33	1F2n	ppm
5 %OdiNu	130-1				111		E
5 %OdiNu	130-2				130		E
r cJodiNu	4n-1				114		E
r cJodiNu	4n-2				133		E
r bwboiNu	P2-1	3F4y	3Fnn	3F0y	3F4P	17F06	ppm
r bwboiNu	77-2	PF21	13Fn3	nF1P	7Fy6	00F46	ppm
r bwboiNu	7P-2	2F4n	0F67	2F77	2Fy6	21F44	ppm
r iwcOo	2P-1	1770F2P	17P3F44	1y3nF62	1P1yF7P	4F3y	ppm
r iwbe	137-1	3F63	3Fn6	3Fny	3FnP	0F02	ppm
r iwbe	13y-1	3Fn3	3Fnn	3Fn0	3Fn0	4F2y	ppm
r OdiNu	20-2	26nF21	271F26	262F7P	266F42	1F64	ppm
r teOotiNu	P6-1	23F40	23Fny	23FyP	23F67	1F07	ppm
r teOotiNu	PP-1	23F42	23F00	21Fnn	23F77	0F26	ppm
r NwNe	04-1	-201PF14	-2160F12	-1ny7F42	-2326F22		ppm
TbemiNu	1ny-1				113		E
TbemiNu	1ny-2				131		E
T%JwiNu	230-1	3F13	3F11	3F3y	3F13	6F44	ppm
T%JwiNu	23n-1	3F11	3F13	3F12	3F11	yF70	ppm
Tio	11P-1	14F3y	14F16	14FP1	14F0n	2F74	ppm
TitJoiNu	47-1	03nFn3	03nFn4	021Fy4	013Fyy	0F3n	ppm
UeJoiNu	20P-1	1F32	1F13	1F3P	1F37	4F3y	ppm

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-16	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A46My	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:40:26	DJtJ. iwb 8 Ju b :	3n2A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n1-2	41F31	42F2P	42FP1	42F34	2F23	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Py-1				11n		E
YtteiNu	Py-2				131		E
Zioc	66-2	0nPF07	0nPFn2	0nPF73	0nPFn0	3F3n	ppm
ZieccOoiNu	y3-1	3FP6	3FP7	3Fy0	3FPy	4F11	ppm
ZieccOoiNu	y1-1	3Fy1	3FP1	3FPn	3FP6	nF7y	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-17	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A4681	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:46:27	DJtJ. iwb 8 Ju b :	3n0A5C. Fd

I JeJu btbe	MJaa	ROo5bp1	ROo5bp2	ROo5bp0	AvgFROocF	ROoc5r D	Uoita
AwNu ioiNu	27-2	13171F41	133n1F17	13364Fy7	133ynFPn	3F6n	ppm
Aotiu Ooh	121-1	2F47	2F60	2Fny	2Fn6	0F0y	ppm
Aeaboic	7n-2	12F3P	11F73	12F62	12F10	0FP1	ppm
BJeiNu	10n-1	173F4n	171F60	171F31	171F30	3F0n	ppm
BJeiNu	107-1	171F6n	17nF6y	171F03	172FPP	1F41	ppm
BbehwiNu	y-1	3FP1	3FP6	3FP7	3FPn	4F22	ppm
Biau Nt%	23y-1				13n		E
Biau Nt%	23y-2				131		E
BeOu iob	P1-1						cpa
RJdu iNu	13P-1	2FnP	2F27	2F2y	2F0P	7F02	ppm
RJdu iNu	136-1	4F0P	3F76	2F31	2F0P	77F23	ppm
RJdu iNu	111-1	2Fny	2F47	2Fny	2Fnn	2FP4	ppm
RJwiNu	40-1	7010F1n	74nnF34	7043F11	706yF40	1F32	ppm
RJwiNu	44-1	74y1F03	76y7F46	7770F10	76n0Fy6	1Fy1	ppm
RJemOo	12-1						cpa
RJemOo	12-2						cpa
R%WOeiob	0n-1						cpa
R%WOeiob	0n-2						cpa
R%eOu iNu	n2-2	P3FP7	P2F17	P1F72	P1FnP	3FP1	ppm
ROmJwv	ny-2	16F63	16F60	16FPn	16F6y	3FP4	ppm
ROppbe	60-2	133Fyy	133F2n	134F02	131FPn	2F10	ppm
DhapeOaiNu	1n6-1						cpa
DhapeOaiNu	1n6-2						cpa
CemiNu	164-1						cpa
CemiNu	164-2						cpa
GJdOwoiNu	163-1						cpa
GJdOwoiNu	163-2						cpa
HOw iNu	16n-1				13y		E
HOw iNu	16n-2				130		E
IodiNu	11n-1				13y		E
IodiNu	11n-2				133		E
IeOo	n4-2	0y3ynF3n	0P403Fn0	074P2F07	0P00nFyP	2F11	ppm
IeOo	n6-2	06nn2F27	07341F2P	0606yF47	066n4F04	3Fyn	ppm
IeOo	n7-2	0n637F3y	0nn60FP4	04Pn4F16	0n041F73	1F23	ppm
KehptOo	P0-1						cpa
LbJd	236-1	234F31	23nFy4	230F0y	234F4n	3F6n	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-17	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A468 1	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:46:27	DJtJ. iwb 8 Ju b :	3n0A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
LbJd	237-1	1yyFP2	232F63	233F13	233FP4	3F76	ppm
LbJd	23P-1	212F73	214FPy	210FPP	210FP2	3Fn1	ppm
Lit%iNu	6-1				13P		E
MJgobaiNu	24-2	0617Fyy	0nPnF77	07nPF12	06n0Fy6	2Fn1	ppm
MJogJobab	nn-2	y40F46	y0PF72	y0yF0y	y43Fn2	3F27	ppm
MOlwmdboNu	y4-1	0F70	0F7n	0FPn	0F7P	1F6y	ppm
MOlwmdboNu	yn-1	2F43	2F43	2F42	2F41	3FnP	ppm
MOlwmdboNu	y6-1	2FnP	2Fn2	2Fn6	2Fnn	1F1P	ppm
MOlwmdboNu	y7-1	2F04	2F2P	2F04	2F02	1FnP	ppm
MOlwmdboNu	yP-1	2F46	2F40	2F0n	2F41	2F4P	ppm
8 bOdhu iNu	1n3-1						cpa
8 bOdhu iNu	1n3-2						cpa
8 ickbw	63-2	22Fn7	22F2n	22F64	22F4y	3Fy0	ppm
I %Oap%OeNa	01-2	1643F20	1nP3FP7	1672Fy4	1601F0n	2FP6	ppm
I OtJaaiNu	0y-2	1326F1y	131yF42	1126FPP	13n7Fn3	nF6y	ppm
5 %OdiNu	130-1				13y		E
5 %OdiNu	130-2				130		E
r cJodiNu	4n-1				13y		E
r cJodiNu	4n-2				131		E
r bwboiNu	P2-1	3Fn6	3Fny	3F4P	3Fn4	13F1P	ppm
r bwboiNu	77-2	4F30	PF1n	PF12	6F77	0nF36	ppm
r bwboiNu	7P-2	2F4y	2FyP	0Fyy	0F1n	24F20	ppm
r iwcOo	2P-1	2n4nF46	2nP0F1P	2n22F63	2nn3F41	1F23	ppm
r iwbe	137-1	3F70	3F73	3F66	3F73	4F74	ppm
r iwbe	13y-1	3F70	3F77	3F74	3F7n	2F4n	ppm
r OdiNu	20-2	11y7F61	11y3F66	1203F77	1236F0n	1F7P	ppm
r teOotiNu	P6-1	n2F36	n0F13	n0F0n	n2FP4	1F2y	ppm
r teOotiNu	PP-1	n2F6n	n0F63	n2F66	n2Fy7	1F30	ppm
r NwNe	04-1	2y2nFy7	2yP1FP0	2P03F1P	2y12F66	2F60	ppm
TbemiNu	1ny-1				13P		E
TbemiNu	1ny-2				130		E
T%JwiNu	230-1	3F1n	3F1n	3F14	3F1n	0FP4	ppm
T%JwiNu	23n-1	3F16	3F17	3F17	3F17	nF12	ppm
Tio	11P-1	11F23	11F60	11F60	11F4y	2F17	ppm
TitJoiNu	47-1	044F66	0n0F41	047F4y	04PFn2	1F2P	ppm
UeJoiNu	20P-1	1FP6	1FPn	1FP7	1FP6	3Fny	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-17	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	A468 1	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 16:46:27	DJtJ. iwb 8 Ju b :	3n0A5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp0	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n1-2	4PF43	47Fyn	4yF33	4PF4n	1F3P	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Py-1				110		E
YtteiNu	Py-2				130		E
Zioc	66-2	473F40	470F72	46yFPn	471F00	3F44	ppm
ZiecOoiNu	y3-1	3Fy0	3FyP	3Fy4	3Fyn	2Fy6	ppm
ZiecOoiNu	y1-1	3Fy6	3Fy6	3Fyn	3Fy6	3Fny	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:u mb er p:9	LB126466	S Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	S0463-17	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	q46u 2	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2320-3 -14:1694J92a	&wTwFd8 :u wb r :9	3a4qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgMU:v n5dU	v n5dCl &	R5dT
q8mb d5mb	2 -2	7J4JU61	032U2J	037U1a	7a0U0a	12U3J	DDe
q5Tb n5h	121-1	1U62	1Ua1	1Ua1	1Uaa	0U7J	DDe
qpl r 5cl	a-2	U7J	6U3	6U64	U37	JUJ4	DDe
Bwpmb	10a-1	77U01	7 U16	76U23	7 U22	1U21	DDe
Bwpmb	10 -1	J3U21	7JU24	76U47	77U64	2U17	DDe
Br ph8mb	J-1	3U47	3U47	3U4J	3U47	1U0a	DDe
Bdb mT%	23J-1				137		E
Bdb mT%	23J-2				J7		E
Bpmb d5r	71-1						dDl
v wob mb	137-1	2U2J	2U0	1U7	2U17	12U46	DDe
v wob mb	136-1	2U32	-3U1	-1U1J	3U34	43J0U00	DDe
v wob mb	111-1	0U33	2U4J	2U61	2U3	JUJ3	DDe
v w8dmb	40-1	2407U74	2422U0	2a31U2	24a4U16	1U3	DDe
v w8dmb	44-1	2412U3J	242aU14	2470U33	2443U37	1Uaa	DDe
v wpen5	12-1						dDl
v wpen5	12-2						dDl
v %8npd5r	0a-1						dDl
v %8npd5r	0a-2						dDl
v %pmb mb	a2-2	77Ua	2U2	2UJ3	7U36	11U66	DDe
v new8T	aJ-2	6U64	aUaJ	aUa	aUJ0	13U04	DDe
v nDDr p	60-2	110U74	J4U02	JaU61	131U26	13U7	DDe
&hl Dpnl mb	1a6-1						dDl
&hl Dpnl mb	1a6-2						dDl
. pemb	164-1						dDl
. pemb	164-2						dDl
Gwon85mb	163-1						dDl
Gwon85mb	163-2						dDl
Hn8b mb	16a-1				113		E
Hn8b mb	16a-2				JJ		E
t5omb	11a-1				113		E
t5omb	11a-2				J6		E
tpn5	a4-2	14263U70	11616U01	11 2U21	12a4JU7	11U72	DDe
tpn5	a6-2	140J6U41	117JJUJ6	11J16U22	12 0 Ua0	11U27	DDe
tpn5	a -2	106 7UJ3	11264U0	110a4Ua0	123JJU2	11U01	DDe
KphDTn5	70-1						dDl
Lr wo	236-1	2 4U36	27 U2a	27 U0	270U31	2U4	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	S Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	S0463-17	t5l Tpmb 5r Tuwb r :9	N7
v 8r 5Tl wb D8 :t&:9	q46u 2	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2320-3 -14:1694JS2a	&wTwFd8 :uwb r :9	3a4qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	23 -1	26JU37	2 aU0	2 U1a	2 0U7	1Ua	DDe
Lr wo	237-1	27JU7a	2J3U6	2JJU33	2J0U1	1U0	DDe
LdP%mb	6-1				113		E
y wlV5r l mb	24-2	2a67U6	2133U40	213JU6J	22aJUaJ	11U7a	DDe
y w5Mw5r l r	aa-2	2a U16	23JU21	210U12	226Ua3	11U6	DDe
y n8heor 5mb	J4-1	1Ua4	1U72	1U1	1U6J	7U00	DDe
y n8heor 5mb	Ja-1	3U	3U77	3UJa	3U7	13U06	DDe
y n8heor 5mb	J6-1	3U7J	3UJ3	3UJJ	3UJ0	6U3J	DDe
y n8heor 5mb	J -1	3U71	3UJ6	3U7	3U77	7U0	DDe
y n8heor 5mb	J7-1	3UJ	3U7J	3U76	3U7a	6U21	DDe
u r nohb mb	1a3-1						dDl
u r nohb mb	1a3-2						dDl
u dkr 8	63-2	1 U67	14Ua	1aU2J	1aU7a	13U26	DDe
N%nl D%npm	01-2	12JaUaa	133 U41	J7JUa3	13J U4J	1aU6a	DDe
NnTwl mb	0J-2	606Ua2	a30U62	4 1U60	a0 U26	16U27	DDe
C%nomb	130-1				111		E
C%nomb	130-2				JJ		E
l dw5omb	4a-1				112		E
l dw5omb	4a-2				J		E
l r 8 5mb	72-1	3U30	3U36	3U43	3U16	12aU67	DDe
l r 8 5mb	-2	6U37	11U3J	U10	7U13	02U61	DDe
l r 8 5mb	7-2	1U3J	2U2J	1U4J	1U62	0 Ua4	DDe
l 8dn5	27-1	1aJ U46	160aU4a	16 7Uaa	160 U1a	2U47	DDe
l 8gr p	13 -1	1U3a	1U37	3UJ3	1U31	JU26	DDe
l 8gr p	13J-1	1U34	3UJ	3UJJ	1U33	0U7	DDe
l nomb	20-2	277U67	226U4a	204U74	24JUJJ	10Ua1	DDe
l Tpn5Tmb	76-1	23U47	21Ua6	22U42	21U4J	4Ua2	DDe
l Tpn5Tmb	77-1	21U1J	21Ua7	21U7J	21Ua6	1U60	DDe
l m8mp	04-1	-a76U7	-a30U06	-2J4UJ0	-461U6J		DDe
Ar pemb	1aJ-1				111		E
Ar pemb	1aJ-2				J		E
A%w8mb	230-1	3U13	3U13	3U3J	3U13	3U66	DDe
A%w8mb	23a-1	3U13	3U11	3U3J	3U13	11U40	DDe
Ad5	117-1	7U2	7U0	7U10	7U2a	1U46	DDe
AdTw5mb	4 -1	226U0	227U23	206U17	203U0	2U21	DDe
Rpw5mb	207-1	3UJ6	3UJ4	3UJJ	3UJ6	2U6	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:u mb er p:9	LB126466	S Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	S0463-17	t5l Tpmb 5r T:u wb r :9	N7
v 8r 5Tl wb D8 :t&:9	q46u 2	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2320-3 -14:1694J92a	&wTwFd8 :u wb r :9	3a4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	q gMU:v n5dU	v n5dCl &	R5dT
Vw5wocmb	a1-2	0 U47	03UJ1	03U63	00U33	11U7	DDe
YTTr pecmb	1 2-1						dDl
YTTr pecmb	1 2-2						dDl
YTTr pecmb	1 6-1						dDl
YTTr pecmb	1 6-2						dDl
YTTpcmb	7J-1				110		E
YTTpcmb	7J-2				J7		E
Zc5d	66-2	032UJa	2aaU32	2a U4a	2 1U71	JUJ0	DDe
Zqpdn5cmb	J3-1	3U4J	3U44	3U4J	3U47	aU73	DDe
Zqpdn5cmb	J1-1	3U06	3Ua2	3U44	3U44	17Ua1	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber p:9	LB126466	SDrpsTnp:9	aswl sP
Lse:I sb DPP:t&:9	S0463-17	t5wTpmb 5rTusbr:9	8N
vPr 5TI sb DPP:t&:9	q46hJ	&dPmTm5:FsdTnp:9	1
&sTr:i :Adbr:qdOmpro:9	2320-3 -14:169J292	&sTsFdP:usbr:9	3JJqC. Fub

8spsbr Tp	ysww	vn5Cr D1	vn5Cr D2	vn5Cr D0	qgMJvn5dU	vn5dCI &	R5dTw
qPmb 5cmb	2 -2	70 6UN6	743JU	70 NU2J	70N6U76	3U1	DDe
q5Tb n5%	121-1	1U02	1U03	1U42	1U0J	4U71	DDe
qpwr 5cd	J-2	6U64	6U1	6UN0	6U0	1U46	DDe
Bspcmb	10J-1	72U6	N7U6	70U33	71UN1	2U32	DDe
Bspcmb	10 -1	70U46	71U44	76U30	70U6J	2U46	DDe
Brp%PPmb	7-1	3U4N	3UJ1	3UJ2	3UJ3	4U06	DDe
Bcwb mTE	237-1				13		G
Bcwb mTE	237-2				134		G
Bpmb c5r	N1-1						dDw
vsob cmb	13N-1	1U6	1U26	1U64	1UJ6	16UN	DDe
vsob cmb	136-1	3U42	1U34	-1U72	-3U1J		DDe
vsob cmb	111-1	2U36	2U32	1UN2	1U76	6U4N	DDe
vsPdcmb	40-1	2016U71	22 6U76	2000U61	2037U16	1U26	DDe
vsPdcmb	44-1	2014U00	2247U11	2036U77	2273U14	1UJ6	DDe
vspen5	12-1						dDw
vspen5	12-2						dDw
vEPpc5r	0J-1						dDw
vEPpc5r	0J-2						dDw
vEpmb cmb	J2-2	4U1J	4U3J	JU30	4U41	3U2	DDe
vnesPT	J7-2	NU14	NU21	NU13	NU1J	3U66	DDe
vnDDrp	60-2	N7UJ	N7U3	NNUN1	N7U1J	3U40	DDe
&%wDpnwcmb	1J6-1						dDw
&%wDpnwcmb	1J6-2						dDw
.pecmb	164-1						dDw
.pecmb	164-2						dDw
HsonP5cmb	163-1						dDw
HsonP5cmb	163-2						dDw
KnPb cmb	16J-1				111		G
KnPb cmb	16J-2				13J		G
t5ocmb	11J-1				111		G
t5ocmb	11J-2				130		G
tpn5	J4-2	2322 U77	177N0U10	23J30U63	2320NU24	1U27	DDe
tpn5	J6-2	17117U07	1712NU1J	17330UN4	173N0U7	3U06	DDe
tpn5	J -2	1N271U16	1N070U4	1N044U00	1N040U3N	3U2N	DDe
hp%DTn5	N0-1						dDw
Lrso	236-1	1N1U70	1NNU64	1NJU24	1NJU2	1UN1	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	SDr psTnp:9	aswl sP
Lse:I sb DP:t&:9	S0463-17	t5wTpmb 5r Tusb r :9	8N
v Pr 5TI sb DP:t&:9	q46hJ	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2320-3 -14:169J292	&sTsFdP:usb r :9	3JJqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	23 -1	1 7U06	1N4UJ	1N0UNN	1N2U61	1UJJ	DDe
Lr so	23N-1	1N7U4N	17JU73	174U26	170U21	1U0	DDe
LdTEcmb	6-1				137		G
y sM5r wcmb	24-2	00 NU33	000 U3J	00J4U0	00J6U4N	3U61	DDe
y s5Ms5r wr	JJ-2	22JU0J	22JU4	226U2J	22JUN	3U23	DDe
y nP%eor 5mb	74-1	1UN4	1U7	1U7	1U72	0UN4	DDe
y nP%eor 5mb	7J-1	3U76	3UN6	3UNU	3UN7	U17	DDe
y nP%eor 5mb	76-1	1U32	3U7	1U3J	1U31	4U03	DDe
y nP%eor 5mb	7 -1	3U7	3U	3UN7	3UNN	11U0	DDe
y nP%eor 5mb	7N-1	3UN	3UNU	3U7	3UN1	4UN2	DDe
u r no%b cmb	1J3-1						dDw
u r no%b cmb	1J3-2						dDw
u dkr P	63-2	1NU02	1NU41	1NU03	1NU04	3U00	DDe
8EnwDEnpmw	01-2	1337U20	70 U74	NN0U64	740U61	6U6N	DDe
8nTswwcmb	07-2	671U3N	6N7U63	37U03	676U66	1UJ	DDe
CEnocmb	130-1				113		G
CEnocmb	130-2				13		G
I ds5ocmb	4J-1				111		G
I ds5ocmb	4J-2				132		G
I rP5cmb	N2-1	3UJ	-3U36	3U00	3U2N	110UJ	DDe
I rP5cmb	-2	1U77	0U7N	12U30	6U33	NNU60	DDe
I rP5cmb	N-2	1UN0	2U64	1UJ4	2U33	2NU4N	DDe
I dRdn5	2N-1	2122U30	2362U4J	237JU73	2370U46	1U40	DDe
I dPgr p	13 -1	3U6N	3U6N	3U2	3U67	2UN0	DDe
I dPgr p	137-1	3U2	3U0	3U2	3U2	3U4J	DDe
I nocmb	20-2	2J1U07	2J0UN	24 UJ2	2J3U73	1U26	DDe
I Tpm5Tcmb	N6-1	1 UN6	1 UJ2	1NU30	1 UN3	1U4	DDe
I Tpm5Tcmb	NN-1	1NU23	1 UN0	1NU3	1NU30	1U32	DDe
I mPmp	04-1	-1161U3	-1406U41	-1060UJ	-1023UJ6		DDe
Ar pecmb	1J7-1				113		G
Ar pecmb	1J7-2				134		G
AEsPRmb	230-1	3U11	3U13	3U10	3U12	11UN1	DDe
AEsPRmb	23J-1	3U11	3U14	3U11	3U12	13UJ2	DDe
Ad5	11N-1	14U0J	14U34	14UJ	14U02	1UN6	DDe
AdS5cmb	4 -1	0 3U60	06JU24	0 4U4	0 3U11	1U2J	DDe
Rps5cmb	20N-1	1U1J	1U14	1U1J	1U1J	3U61	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p9	LB126466	SDr psTnp9	aswl sP
Lse:I sb DPP:t&:9	S0463-17	t5wTpmb 5r Tu sb r :9	8N
v Pr 5TI sb DPP:t&:9	q46hJ	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2320-3 -14:169J292	&sTsFdP:u sb r :9	3JJqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	J1-2	04U44	00U62	00UJ6	00UWN	1U4J	DDe
YTTr peomb	1 2-1						dDw
YTTr peomb	1 2-2						dDw
YTTr peomb	1 6-1						dDw
YTTr peomb	1 6-2						dDw
YTTpomb	N7-1				110		G
YTTpomb	N7-2				134		G
Zc5d	66-2	202UJ6	200U0	200U72	200U2N	3U27	DDe
Zqpdn5omb	73-1	3U6	3U67	3U 2	3U67	0U6	DDe
Zqpdn5omb	71-1	3U63	3UJ7	3U6	3U62	U17	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-23	Dns&umne&Name :	P8
RIAen&pamI le D :	c46y9t	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:99:26	t a&a. Ae Name :	396c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
clumAnAum	27-2	8784F18	hh02F33	h999F1h	h420F7h	6F21	I I b
cn&Amon%	121-1	1F91	1F44	1F40	1F46	0F14	I I b
crsenAq	79-2	6Fh1	6Fh1	6Fh9	6Fh2	3F02	I I b
BarAum	109-1	131F32	h4F91	h9F82	h7F12	0F99	I I b
BarAum	107-1	131F60	h7F91	hhF46	hhF90	2F37	I I b
Ber%IAum	h-1	3F96	3F99	3F94	3F99	2F30	I I b
BAsmu&E	23h-1				139		G
BAsmu&E	23h-2				136		G
BromAne	81-1						ql s
RaOmAum	138-1	2F13	1Fhh	1F72	1Fh0	13F12	I I b
RaOmAum	136-1	1F29	-1F70	3F92	3F32	h317F77	I I b
RaOmAum	111-1	2F00	1Fh4	2F27	2F18	hF62	I I b
RalqAum	40-1	24h7F88	2080F89	2484Fh3	2499F99	2F94	I I b
RalqAum	44-1	2916F82	243hF32	2477F16	2467F67	2F21	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
REIorAne	09-1						ql s
REIorAne	09-2						ql s
REromAum	92-2	6hF48	77F10	76F11	74F24	9F9h	I I b
Robal&	9h-2	7F72	8F90	8F40	8F20	9F0h	I I b
RoI I er	60-2	89F16	h7F3h	h2F01	h1F92	6F96	I I b
t %sI rosAum	196-1						ql s
t %sI rosAum	196-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	163-1						ql s
HaOolAnAum	163-2						ql s
KolmAum	169-1				137		G
KolmAum	169-2				137		G
DnOAum	119-1				137		G
DnOAum	119-2				132		G
Don	94-2	18608F84	23487F98	23384F3h	1h706F84	4Fh0	I I b
Don	96-2	17869F00	23737F61	1h434F32	1h029F69	7F06	I I b
Don	97-2	16h6hF8h	1h998Fh2	18662F87	180h7F20	7F19	I I b
yr%&on	80-1						ql s
LeaO	236-1	1h6F09	18hF83	1h1F89	1h2F67	1F74	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-23	Dns&umne&Name :	P8
RIAen&pamI le D :	c46y9t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 16:99:26	t a&a. Ae Name :	396c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
LeaO	237-1	1h2F61	186F21	186F92	188F49	1Fh2	I I b
LeaO	238-1	234F99	1h8F07	1hhF61	233F84	1F60	I I b
LA&EAum	6-1				136		G
MagnesAum	24-2	0182F98	0919F66	0094F20	0093F82	4Fh7	I I b
Manganese	99-2	213F30	206F96	203Fh0	229F84	6F1h	I I b
Mol%bOenum	h4-1	1Fh2	2F14	2F24	2F13	7F78	I I b
Mol%bOenum	h9-1	3Fh2	3Fh9	3Fh4	3Fh4	1F42	I I b
Mol%bOenum	h6-1	1F33	3Fhh	1F36	1F32	4F23	I I b
Mol%bOenum	h7-1	3Fhh	3Fh4	3Fh6	3Fh7	2F61	I I b
Mol%bOenum	h8-1	3Fh0	3F86	3F80	3F88	9F43	I I b
NeoO%mAum	193-1						ql s
NeoO%mAum	193-2						ql s
NAqkel	63-2	16Fhh	1hF1h	18F06	18F18	6F11	I I b
PEosI Eorus	01-2	h16F44	1308F1h	h0hF64	h64F76	6F73	I I b
Po&assAum	0h-2	606F0h	702F19	733F76	68hF77	7F38	I I b
5EoOAum	130-1				136		G
5EoOAum	130-2				136		G
pqanOAum	49-1				136		G
pqanOAum	49-2				130		G
pelenAum	82-1	3F10	3F42	-3F30	3F17	100Fh9	I I b
pelenAum	77-2	13F98	12F6h	hF12	13F83	16F62	I I b
pelenAum	78-2	1F04	1F4h	1F08	1F41	9F97	I I b
pAAqon	28-1	2200F42	21h3F87	2269F86	2203F39	1F6h	I I b
pAver	137-1	3F68	3F6h	3F76	3F71	6F92	I I b
pAver	13h-1	3F70	3F71	3F83	3F79	6F09	I I b
poOAum	20-2	224F74	263F44	249F03	240F4h	7F06	I I b
p&ona&Aum	86-1	18F4h	18F97	1hF62	18F8h	0F04	I I b
p&ona&Aum	88-1	18Fh9	18Fh0	1hF27	1hF39	3Fhh	I I b
pulfur	04-1	-776F78	-1181F21	-1344F9h	-1333F86		I I b
i erbAum	19h-1				136		G
i erbAum	19h-2				139		G
i EallAum	230-1	3F11	3F11	3F13	3F11	4F34	I I b
i EallAum	239-1	3F11	3F11	3F12	3F11	4F60	I I b
i An	118-1	14F86	14F24	14F96	14F99	2F13	I I b
i A&anAum	47-1	438F3h	087F27	08hF29	0h4F87	2Fh1	I I b
UranAum	208-1	1F26	1F16	1F14	1F1h	9F99	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-23	Dns&umne&Name :	P8
RIAn&pamI le D :	c46y9t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 16:99:26	t a&a. Ae Name :	396c5C. FO

Parame&er	Mass	Ron5el 1	Ron5el 2	Ron5el 0	cvgFRonqF	Ronq5pt	UnA&s
VanaOAum	91-2	02F11	09F18	04F91	00Fh0	4F76	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	8h-1				113		G
Y&&Aum	8h-2				130		G
ZAnq	66-2	222F29	293Fh0	207F22	206F83	6F36	I I b
ZAqonAum	h3-1	3F70	3F74	3F71	3F70	2F64	I I b
ZAqonAum	h1-1	3F72	3F71	3F72	3F72	3F94	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber SJ	LB126466	OIr Sw&SJ	swl Pw8
Lwe:pwbl &:D:J	O3465-10LX7	DR &Sm Rr &uwbr:J	Na
v &R&pwbl &:D:J	c4697L	t &m&R. wq&SJ	7
t w&:T:i &r:cqdm&o:J	2523-5 -14:16J7aJ2a	t w&v. &:uwbr:J	57 cEF. Ub

NwSwbr &S	Hwl	vnRErl 1	vnRErl 2	vnRErl 3	cgMJvnRqU	vnRqEpt	CR&
c8mb ARAmb	2 -2	1032U73	1026U05	1047U45	1034U04	5U40	l l e
cR&b nRy	121-1	5U20	5U2a	5U2a	5U2a	3U37	l l e
cS r RAq	7-2	1U71	1U42	1U33	1U42	6U16	l l e
BwSAmb	137-1	1aU7	1aU56	1aU14	1aU32	2U56	l l e
BwSAmb	13 -1	10U74	1aUa5	1aUaa	10U5	2U14	l l e
Br Sy8Amb	0-1	5U50	5U11	5U11	5U15	0Ua	l l e
BAb m8a	250-1				157		%
BAb m8a	250-2				155		%
BSmb ARr	a1-1						q l l
v wob Amb	15a-1	5U46	5U36	5U4	5U43	14U10	l l e
v wob Amb	156-1	5U26	-3U44	-2U40	-1Ua0		l l e
v wob Amb	111-1	5U46	5U16	5U17	5U26	60U14	l l e
v w&qAmb	43-1	4 1Ua7	4 7U37	464U02	4 5U1	1U13	l l e
v w&qAmb	44-1	460U34	4a2U40	460U64	4 3Ua2	1U7a	l l e
v wSenR	12-1						q l l
v wSenR	12-2						q l l
v h8mSRr	37-1						q l l
v h8mSRr	37-2						q l l
v hSmb Amb	72-2	17U42	14U4	14Ua5	14U00	2U73	l l e
v new&.	70-2	1U64	1U63	1U65	1U63	1U27	l l e
v nI l r S	63-2	1aU26	1aU36	1aU17	1aU26	5U76	l l e
t yl l SmI Amb	176-1						q l l
t yl l SmI Amb	176-2						q l l
FSeAmb	164-1						q l l
FSeAmb	164-2						q l l
Gwon8RAmb	165-1						q l l
Gwon8RAmb	165-2						q l l
Kn8b Amb	167-1				156		%
Kn8b Amb	167-2				152		%
DRoAmb	117-1				150		%
DRoAmb	117-2				155		%
DSmR	74-2	3a37U4a	3 04U	3a32U10	3a25Ua1	5U70	l l e
DSmR	76-2	3004U10	3043U43	3014U50	3075U7	1U53	l l e
DSmR	7 -2	3 63U43	3 3U3a	3 45Ua3	3 70U22	5U44	l l e
9Syl &mR	a3-1						q l l
Lr wo	256-1	36U41	3 U0	36U7	36U02	2U57	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber SJ	LB126466	OIr Sw&SJ	swl Pw8
Lwe:pwbl &:D :J	O3465-10LX7	DR &Sm Rr &uwbr:J	Na
v &R&pwbl &:D :J	c4697L	t &m&R. wq&SJ	7
t w&:T:i &r:cqdm&S o:J	2523-5 -14:16J7aJ2a	t w&v. &:uwbr:J	57 cEF. Ub

NwSwbr &S	Hwl	vnRErl 1	vnRErl 2	vnRErl 3	cgMJvnRqU	vnRqEpt	CR&
Lrwo	25 -1	37Ua	36U2a	37U5	37U02	5Ua	Ile
Lrwo	25a-1	36U66	3 U5a	36U4	36U3	5Ua7	Ile
L&m&Amb	6-1				157		%
HwVRrl Amb	24-2	6a1Ua0	6 Ua5	604U3a	6a4U60	1U26	Ile
HwRMwRrlr	77-2	46U13	47U63	46U55	47U02	5U7	Ile
Hn&yeor Rmb	04-1	5U45	5U30	5U34	5U3a	0U21	Ile
Hn&yeor Rmb	07-1	5U1	5U1a	5U16	5U1	3U63	Ile
Hn&yeor Rmb	06-1	5U10	5U14	5U1a	5U1	1 U20	Ile
Hn&yeor Rmb	0 -1	5U14	5U13	5U21	5U16	26U21	Ile
Hn&yeor Rmb	0a-1	5U1	5U16	5U21	5U1a	14U73	Ile
urnoyb Amb	175-1						qll
urnoyb Amb	175-2						qll
uAqkr 8	65-2	3U07	3Ua4	3U6	3Ua7	2U30	Ile
NhnlIhnSm	31-2	1 2U15	1 Ua3	a5U6	143U74	3 U0a	Ile
Nn&wl Amb	30-2	161Ua6	161U07	174U0	170U70	2U71	Ile
EhnoAmb	153-1				156		%
EhnoAmb	153-2				153		%
pqwRoAmb	47-1				15a		%
pqwRoAmb	47-2				0a		%
pr &RAmb	a2-1	-5U34	-5U51	5U56	-5U15		Ile
pr &RAmb	-2	1U56	-1U57	-5U52	5U55		Ile
pr &RAmb	a-2	5U62	-5U44	5U	5U32	25aU37	Ile
p&AqnR	2a-1	431Ua1	437U3a	417U70	42 U70	2U4	Ile
p&gr S	15 -1	5U14	5U17	5U14	5U14	7U07	Ile
p&gr S	150-1	5U14	5U14	5U12	5U13	aU57	Ile
pnoAmb	23-2	74U56	76U14	77U5	77U35	1U00	Ile
p&mR&Amb	a6-1	3U62	3U05	3U40	3U6	7Ua1	Ile
p&mR&Amb	aa-1	3U1	3U6	3Ua2	3U3	2U14	Ile
pm&mS	34-1	-2 63U6a	-2761U3	-2675U35	-267aU7		Ile
irSeAmb	170-1				15a		%
irSeAmb	170-2				151		%
ihw&Amb	253-1	5U52	5U53	5U54	5U53	45U05	Ile
ihw&Amb	257-1	5U53	5U53	5U54	5U53	4U52	Ile
iAR	11a-1	2U02	2U0	2U0	2U05	3U23	Ile
i&wRAmb	4 -1	4U2	4U44	2U66	3U04	1U71	Ile
CSwRAmb	23a-1	5U23	5U25	5U22	5U22	7U4	Ile

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber SJ	LB126466	OIr Sw&SJ	swl Pw8
Lwe:pwbl &:D :J	O3465-10LX7	DR &mbRr&uwbr:J	Na
v &R&pwbl &:D :J	c4697L	t &m&R. wq&SJ	7
t w&:T:i &r:cqdm&o:J	2523-5 -14:16J7a.2a	t w&v. &:uwbr:J	57 cEF. Ub

NwSwbr&S	Hwl	vnRErl 1	vnRErl 2	vnRErl 3	cgMJvnRqU	vnRqEpt	CR&
VwRwo&mb	71-2	U53	6U07	6U6	6U01	2U51	l l e
Y&&Se&mb	1 2-1						ql l
Y&&Se&mb	1 2-2						ql l
Y&&Se&mb	1 6-1						ql l
Y&&Se&mb	1 6-2						ql l
Y&&S&mb	a0-1				15a		%
Y&&S&mb	a0-2				155		%
Z&Rq	66-2	46U0	47U31	4 U50	46U46	2U17	l l e
Z&SqnR&mb	05-1	5U13	5U14	5U13	5U13	7U73	l l e
Z&SqnR&mb	01-1	5U17	5U50	5U15	5U11	2 U07	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-21	Dns&umne&Name :	P8
v lAen&pamI le D :	c46h5p	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO:	2320-37-14 17:31:29	t a&aFAe Name :	358c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	cgMUv onqU	v onqCpt	RnA&s
clumAAum	27-2	9097U57	9500U32	9461U64	9464U38	3U72	I I b
cn&Amon%	121-1	19U92	23U37	23U59	23U19	1U75	I I b
crsenAq	75-2	10U56	10U03	10U91	10U59	2U26	I I b
BarAum	105-1	496U07	498U16	538U94	531U16	1U06	I I b
BarAum	107-1	499U96	530U90	514U44	536U11	1U48	I I b
Ber%IAum	9-1	13U73	13U59	13U56	13U62	3U69	I I b
BAsmu&E	239-1				139		G
BAsmu&E	239-2				134		G
BromAne	81-1						ql s
v aOmAum	138-1	9U99	13U41	9U64	13U31	0U87	I I b
v aOmAum	136-1	13U61	7U09	7U96	8U66	19U86	I I b
v aOmAum	111-1	12U09	12U44	12U56	12U46	3U73	I I b
v alqAum	40-1	2462U90	2425U66	2526U87	2471U82	2U37	I I b
v alqAum	44-1	2476U79	2423U34	2487U62	2461U48	1U47	I I b
v arbon	12-1						ql s
v arbon	12-2						ql s
v ElorAne	05-1						ql s
v ElorAne	05-2						ql s
v EromAum	52-2	110U71	116U02	115U00	115U12	1U14	I I b
v obal&	59-2	111U59	139U75	113U84	113U70	3U84	I I b
v ol I er	60-2	151U95	150U41	150U24	152U87	3U52	I I b
t %sI rosAum	156-1						ql s
t %sI rosAum	156-2						ql s
. rbAum	164-1						ql s
. rbAum	164-2						ql s
HaOolAAum	163-1						ql s
HaOolAAum	163-2						ql s
KolmAum	165-1				113		G
KolmAum	165-2				135		G
DiOAum	115-1				112		G
DiOAum	115-2				131		G
Don	54-2	16679U54	16976U16	16924U58	16863U39	3U94	I I b
Don	56-2	17269U11	17223U35	16787U39	17392U38	1U55	I I b
Don	57-2	16535U03	16517U06	16425U72	16482U79	3U03	I I b
hr%I &on	80-1						ql s
LeaO	236-1	192U92	193U79	230U90	195U88	0U63	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-21	Dns&umne&Name :	P8
v lAen&pamI le D :	c46h5p	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 17:31:29	t a&aFAe Name :	358c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gMUv onqU	v onqCpt	RnA&s
LeaO	237-1	188U07	189U65	192U99	193U00	1U25	I I b
LeaO	238-1	231U55	232U27	239U47	234U40	2U14	I I b
LA&EAum	6-1				139		G
y aMhesAum	24-2	0358U59	0321U71	0325U85	0305U08	3U67	I I b
y anManese	55-2	010U34	021U44	018U19	017U55	1U00	I I b
y ol%bOenum	94-1	2U16	2U95	2U32	2U08	21U18	I I b
y ol%bOenum	95-1	3U70	3U78	3U77	3U76	0U07	I I b
y ol%bOenum	96-1	3U94	3U97	3U99	3U97	2U93	I I b
y ol%bOenum	97-1	3U78	3U81	3U82	3U83	0U38	I I b
y ol%bOenum	98-1	3U82	3U85	3U80	3U80	1U87	I I b
NeoO%mAum	153-1						ql s
NeoO%mAum	153-2						ql s
NAqkel	63-2	124U64	126U42	126U02	125U83	3U79	I I b
PEosI Eorus	01-2	1323U34	990U07	966U90	990U45	2U67	I I b
Po&assAum	09-2	722U69	719U11	734U00	715U07	1U06	I I b
CEoOAum	130-1				112		G
CEoOAum	130-2				136		G
pqanOAum	45-1				112		G
pqanOAum	45-2				131		G
pelenAum	82-1	23U14	19U55	23U26	19U98	1U91	I I b
pelenAum	77-2	24U46	04U60	24U41	27U80	21U14	I I b
pelenAum	78-2	22U24	22U43	18U11	23U91	11U60	I I b
pAAqon	28-1	2010U60	2283U78	2443U74	2045U35	0U63	I I b
pAger	137-1	8U98	9U12	9U11	9U37	3U88	I I b
pAger	139-1	9U34	9U45	9U02	9U27	2U26	I I b
poOAum	20-2	085U36	077U85	078U37	083U00	1U38	I I b
p&ona&Aum	86-1	18U13	19U25	18U96	18U77	0U19	I I b
p&ona&Aum	88-1	18U67	18U70	19U34	18U81	1U36	I I b
pulfur	04-1	-1058U86	-1605U08	-1046U27	-1446U84		I I b
i erbAum	159-1				113		G
i erbAum	159-2				130		G
i EallAum	230-1	8U43	8U46	8U70	8U50	2U35	I I b
i EallAum	235-1	8U46	8U41	8U96	8U61	0U56	I I b
i A	118-1	27U36	27U10	27U46	27U21	3U79	I I b
i A&anAum	47-1	061U95	028U48	053U24	046U89	4U93	I I b
RranAum	208-1	1U33	1U34	1U37	1U34	0U20	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-21	Dns&umne&Name :	P8
v lAen&pamI le D :	c46h5p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 17:31:29	t a&aFAe Name :	358c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	51-2	105U32	105U64	107U26	105U97	3U35	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	89-1				110		G
Y&&Aum	89-2				130		G
ZAnq	66-2	061U38	074U79	066U63	067U49	1U38	I I b
ZAqonAum	93-1	3U69	3U82	3U75	3U75	8U76	I I b
ZAqonAum	91-1	1U21	3U72	3U70	3U38	01U52	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-22	IoateNu obt 8 Ju b :	I P
v wbot r Ju pwb ID :	A46L4	DiWtiOo FJctOe:	1
DJtb & Tiu b AcqNebd :	2320-37-14 17:34:02	DJtJFiwb 8 Ju b :	3n5AC. Fud

I JeJu btbe	y Jaa	v OoCbp1	v OoCbp2	v OoCbp0	AgMUv OocU	v OocCr D	Roita
AwNu ioiNu	27-2	nP15UP5	6270U5n	6230Uh1	6355U12	4U31	ppm
Aotiu Ooh	121-1	3UP2	3U7P	3UP5	3UP0	6UP7	ppm
Aeaboic	7n-2	PU67	5U25	5U07	5U11	4U21	ppm
BJeiNu	10n-1	74UP0	7nU03	7nU1n	7nU35	3U02	ppm
BJeiNu	107-1	74U6P	76U26	7nU74	7nUh6	1U37	ppm
BbehwiNu	5-1	3U00	3U04	3U07	3U0n	6U24	ppm
Biau Nt%	235-1				136		E
Biau Nt%	235-2				13n		E
BeOu iob	P1-1						cpa
v Jdu iNu	13P-1	3U5P	1U11	3U52	1U33	13U33	ppm
v Jdu iNu	136-1	2U37	-0U16	-3U4P	-3Uh0		ppm
v Jdu iNu	111-1	1U16	3U72	3U56	3U5n	20U41	ppm
v JwoiNu	40-1	n020U41	n400UP5	nn62U34	n405U7P	2U23	ppm
v JwoiNu	44-1	nnP2U10	nPn5U40	nP30U70	n74PU40	2Uhn	ppm
v JemOo	12-1						cpa
v JemOo	12-2						cpa
v %WOeiob	0n-1						cpa
v %WOeiob	0n-2						cpa
v %eOu iNu	n2-2	27UP6	03U11	25U61	25U15	4U3n	ppm
v OmJwv	n5-2	7U67	PU22	PU2n	PU3n	4U34	ppm
v Oppbe	60-2	n1UhP	nnU06	nnU1P	n4U34	0U54	ppm
DhapeOaiNu	1n6-1						cpa
DhapeOaiNu	1n6-2						cpa
. emiNu	164-1						cpa
. emiNu	164-2						cpa
GJdOwoiNu	163-1						cpa
GJdOwoiNu	163-2						cpa
HOw iNu	16n-1				13P		E
HOw iNu	16n-2				13n		E
IodiNu	11n-1				113		E
IodiNu	11n-2				130		E
IeOo	n4-2	7140PU27	7P354U7P	7P1n3U23	7nP54U42	nU3P	ppm
IeOo	n6-2	71701Uh0	76732U4P	767n2U52	7n362U01	0UP4	ppm
IeOo	n7-2	7264PU32	7533PU03	7P4PPUh5	76714U57	4U63	ppm
KehptOo	P0-1						cpa
LbJd	236-1	53U2P	52Uhn	54Uh0	52U4n	2U03	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-22	IoateNu obt 8 Ju b :	I P
v wbot r Ju pwb ID :	A46L4	DiwNtiOo FJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:34:02	DJtJFiwb 8 Ju b :	3n5AC. Fld

I JeJu btbe	y Jaa	v OoCbp1	v OoCbp2	v OoCbp0	AgMUv OocU	v OocCr D	Roita
LbJd	237-1	PPU15	P5U23	51Uh4	P5U64	1U52	ppm
LbJd	23P-1	P5U52	53U47	52U7P	51U36	1U67	ppm
Lit%iNu	6-1				135		E
y JMobaiNu	24-2	26P0U23	2P42UPn	2P45U62	2751UP5	0U07	ppm
y JoMJobab	nn-2	266U26	2P7U50	2PPU64	2P3U5n	4Uh0	ppm
y OwmdboNu	54-1	nU72	nU45	nU67	nU60	2U11	ppm
y OwmdboNu	5n-1	0U42	0U06	0U47	0U41	1U62	ppm
y OwmdboNu	56-1	0U64	0U7n	0UP4	0U74	2U64	ppm
y OwmdboNu	57-1	0U45	0U44	0UhP	0Uh1	1U55	ppm
y OwmdboNu	5P-1	0U41	0U40	0U07	0U43	3U55	ppm
8 bOdhu iNu	1n3-1						cpa
8 bOdhu iNu	1n3-2						cpa
8 ickbw	63-2	23U3n	22U06	22U55	21UP3	7U13	ppm
I %Oap%OeNa	01-2	2305U65	2207U02	201PU34	215PU0n	6Uh1	ppm
I OtJaaiNu	05-2	411UP2	466U73	447Uhn	442U32	6U03	ppm
C%OdiNu	130-1				136		E
C%OdiNu	130-2				137		E
r cJodiNu	4n-1				113		E
r cJodiNu	4n-2				130		E
r bwboiNu	P2-1	3U14	-3U61	-3U3P	-3U1P		ppm
r bwboiNu	77-2	4U7P	6U23	4U10	nU34	23U56	ppm
r bwboiNu	7P-2	3Uhn	1U40	1U04	1U11	40UP5	ppm
r iwcOo	2P-1	2007UP0	2065U35	2445UP6	20PnUh5	2U42	ppm
r iwgbe	137-1	3U14	3U13	3U11	3U12	23U3P	ppm
r iwgbe	135-1	3U11	3U10	3U14	3U12	5U51	ppm
r OdiNu	20-2	450U50	n27UhP	n07U20	n15UhP	4U0P	ppm
r teOotiNu	P6-1	1nU5P	16U21	16U67	16U25	2U14	ppm
r teOotiNu	PP-1	16U45	16U3P	16U23	16U26	1U2P	ppm
r NwNe	04-1	1373U12	12n0UP7	164nUh1	1020U17	22U21	ppm
TbemiNu	1n5-1				13P		E
TbemiNu	1n5-2				13n		E
T%JwiNu	230-1	3U32	3U34	3U34	3U30	15U12	ppm
T%JwiNu	23n-1	3U34	3U3n	3U3n	3U3n	16U56	ppm
Tio	11P-1	4U44	4U06	4U26	4U0n	2U10	ppm
TitJoiNu	47-1	261U73	266U15	26PU5n	26nU61	1U0P	ppm
ReJoiNu	20P-1	3U52	3U5n	3U5n	3U54	1U05	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-22	IoateNu obt 8 Ju b :	I P
v wbot r Ju pwb ID :	A46L4	DiwNtiOo FJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:34:02	DJtJFiwb 8 Ju b :	3n5AC. Fudl

I JeJu btbe	y Jaa	v OoCbp1	v OoCbp2	v OoCbp0	AgMUv OocU	v OocCr D	Roita
VJoJdiNu	n1-2	23U56	21UP6	21UP4	21Uhn	2U06	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	P5-1				112		E
YtteiNu	P5-2				130		E
Zioc	66-2	P11Uh5	P6PU61	P66U10	P4PU7P	0UP3	ppm
ZieccOoiNu	53-1	1U61	1U61	1U63	1U61	3U01	ppm
ZieccOoiNu	51-1	1Uh1	1Uh0	1Uh6	1Uh4	1UP2	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-20	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46LM	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:37:03	DJtJCiwb 8 Ju b :	363An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	27-2	63P0.PP	637y.P6	6M64.66	6242.P3	4.47	ppm
Aotiu Ooh	121-1	3.M0	3.M7	3.MP	3.M6	4.6y	ppm
Aeaboic	7M-2	0.7y	0.6P	4.1P	0.Py	6.P4	ppm
BJeiNu	10M-1	M3.66	M2.04	M3.12	M1.34	2.27	ppm
BJeiNu	107-1	M3.17	M1.20	M3.M0	M3.6M	1.37	ppm
BbehwiNu	y-1	3.43	3.0M	3.06	3.07	6.31	ppm
Biau Nt%	23y-1				13P		E
Biau Nt%	23y-2				131		E
BeOu iob	P1-1						cpa
UJdu iNu	13P-1	3.M0	3.62	3.0M	3.M3	26.yP	ppm
UJdu iNu	136-1	-2.46	-2.2y	-2.0P	-2.0P		ppm
UJdu iNu	111-1	3.2P	3.0P	3.04	3.00	14.03	ppm
UJwciNu	40-1	1y16.M7	1y30.12	1y42.2y	1y23.66	1.34	ppm
UJwciNu	44-1	1y1M71	1Py1.0y	1y4M23	1y17.40	1.41	ppm
UJemOo	12-1						cpa
UJemOo	12-2						cpa
U%wOeiob	0M-1						cpa
U%wOeiob	0M-2						cpa
U%eOu iNu	M2-2	1y.13	1P.P6	23.70	1y.M6	M1y	ppm
UOmJwv	My-2	7.62	7.44	P.1M	7.74	4.77	ppm
UOppbe	60-2	02.6P	02.71	06.2P	00.Py	6.11	ppm
DhapeOaiNu	1M6-1						cpa
DhapeOaiNu	1M6-2						cpa
5emiNu	164-1						cpa
5emiNu	164-2						cpa
GJdOwoiNu	163-1						cpa
GJdOwoiNu	163-2						cpa
HOw iNu	16M-1				111		E
HOw iNu	16M-2				134		E
IodiNu	11M-1				110		E
IodiNu	11M-2				yy		E
IeOo	M4-2	166Py.32	16733.P6	17PP0.4P	173y1.12	4.32	ppm
IeOo	M6-2	173P2.6P	171My.0y	1P406.y0	17MMy.67	4.00	ppm
IeOo	M7-2	1604M3y	16137.3M	17M42.3y	16664.74	4.61	ppm
KehptOo	P0-1						cpa
LbJd	236-1	y0.10	yM67	y1.P7	y0.M6	2.37	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-20	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	A46LM	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:37:03	DJtJCiwb 8 Ju b :	363An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
LbJd	237-1	y1.71	y2.4P	y3.30	y1.41	1.07	ppm
LbJd	23P-1	y2.2P	y0.07	y1.73	y2.4M	3.y2	ppm
Lit%Nu	6-1				113		E
g JvobaiNu	24-2	2734.yM	2636.16	2P4M6P	271P.y0	4.40	ppm
g JovJobab	MM-2	26y.6y	260.P2	2P0.0M	272.2y	0.6P	ppm
g OwmdboNu	y4-1	2.13	2.13	1.PP	2.30	6.02	ppm
g OwmdboNu	yM-1	3.67	3.60	3.6P	3.66	4.42	ppm
g OwmdboNu	y6-1	3.P1	3.71	3.7y	3.77	6.47	ppm
g OwmdboNu	y7-1	3.6y	3.62	3.64	3.6M	M03	ppm
g OwmdboNu	yP-1	3.73	3.64	3.73	3.6P	M36	ppm
8 bOdhu iNu	1M3-1						cpa
8 bOdhu iNu	1M3-2						cpa
8 ickbw	63-2	17.43	17.PM	1P.6M	17.y7	0.M4	ppm
I %Oap%OeNa	01-2	600.0P	M3y.40	MPM41	M76.3P	13.PM	ppm
I OtJaaiNu	0y-2	406.y3	40P.30	4PP.1M	4M4.06	6.44	ppm
n %OdiNu	130-1				113		E
n %OdiNu	130-2				134		E
r cJodiNu	4M-1				112		E
r cJodiNu	4M-2				133		E
r bwboiNu	P2-1	3.21	-3.13	3.13	3.37	210.P0	ppm
r bwboiNu	77-2	M3y	2.yP	4.46	4.1P	2MPP	ppm
r bwboiNu	7P-2	3.7M	3.72	1.y2	1.10	63.7y	ppm
r iwcOo	2P-1	1M3M67	1476.P7	1M02.34	1M34.P6	1.P0	ppm
r iwRbe	137-1	3.12	3.10	3.10	3.10	M60	ppm
r iwRbe	13y-1	3.10	3.14	3.11	3.10	12.62	ppm
r OdiNu	20-2	201.y2	202.61	2M7.yM	243.P0	6.16	ppm
r teOotiNu	P6-1	11.M7	11.06	11.71	11.M4	1.M2	ppm
r teOotiNu	PP-1	11.P2	11.66	11.PP	11.7P	3.y7	ppm
r NwNe	04-1	-1yMy.72	-2376.y3	-1yM4.77	-1yy7.10		ppm
TbemiNu	1My-1				113		E
TbemiNu	1My-2				132		E
T%JwiNu	230-1	3.3M	3.36	3.36	3.36	7.P0	ppm
T%JwiNu	23M-1	3.3M	3.3M	3.36	3.3M	y.3y	ppm
Tio	11P-1	0.31	0.32	0.11	0.3M	1.74	ppm
TitJoiNu	47-1	226.y1	201.63	201.P4	203.12	1.21	ppm
FeJoiNu	20P-1	3.P1	3.Py	3.PM	3.PM	4.63	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-20	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46LM	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:37:03	DJtJCiwb 8 Ju b :	363An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	M1-2	1P.66	1P.P3	23.M6	1y.04	M47	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Py-1				11M		E
YtteiNu	Py-2				133		E
Zioc	66-2	1M3.y4	14y.y7	16M31	1MM01	M42	ppm
ZiecOoiNu	y3-1	3.70	3.7P	3.7P	3.77	0.M2	ppm
ZiecOoiNu	y1-1	3.66	3.P4	3.76	3.7M	11.M1	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-24	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46L6	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:13:00	DJtJCiwb 8 Ju b :	361An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
AwNu ioiNu	27-2	12317.2M	11yMM23	11M7P.26	11PM3.24	2.33	ppm
Aotiu Ooh	121-1	3.36	3.34	3.3P	3.36	01.06	ppm
Aeaboic	7M-2	2.37	2.30	1.y1	2.33	4.32	ppm
BJeiNu	10M-1	M0.16	M1.Py	MM4y	M0.M1	0.43	ppm
BJeiNu	107-1	M4.y1	M2.17	M6.72	M4.63	4.1y	ppm
BbehwiNu	y-1	3.64	3.61	3.64	3.60	2.10	ppm
Biau Nt%	23y-1				13M		E
Biau Nt%	23y-2				131		E
BeOu iob	P1-1						cpa
UJdu iNu	13P-1	3.21	3.3M	3.27	3.1P	60.74	ppm
UJdu iNu	136-1	-3.30	-2.y6	-3.36	-1.32		ppm
UJdu iNu	111-1	3.11	-3.3P	3.14	3.36	213.24	ppm
UJwiNu	40-1	2732.M7	24y7.PP	2722.64	2641.30	4.71	ppm
UJwiNu	44-1	26y1.64	2M31.y3	273y.17	2604.20	4.06	ppm
UJemOo	12-1						cpa
UJemOo	12-2						cpa
U%WOeiob	0M-1						cpa
U%WOeiob	0M-2						cpa
U%eOu iNu	M2-2	24.30	20.MP	20.22	20.61	1.71	ppm
UOmJw	My-2	13.y3	13.P4	13.MP	13.77	1.MM	ppm
UOppbe	60-2	21.14	23.My	1y.y0	23.MM	2.y4	ppm
DhapeOaiNu	1M6-1						cpa
DhapeOaiNu	1M6-2						cpa
5emiNu	164-1						cpa
5emiNu	164-2						cpa
GJdOiwoiNu	163-1						cpa
GJdOiwoiNu	163-2						cpa
HOw iNu	16M-1				13y		E
HOw iNu	16M-2				130		E
IodiNu	11M-1				13P		E
IodiNu	11M-2				yy		E
IeOo	M4-2	0332M47	2P727.77	2P2M2.3P	2y331.77	0.16	ppm
IeOo	M6-2	2P062.66	2P461.07	2747y.0M	2P131.10	1.y2	ppm
IeOo	M7-2	271Py.PP	26y4M64	262yP.41	26P11.01	1.72	ppm
KehptOo	P0-1						cpa
LbJd	236-1	P.7M	P.27	y.12	P.71	4.y3	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	SpbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S0463-24	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	A46L6	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:13:00	DJtJCiwb 8 Ju b :	361An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	Foita
LbJd	237-1	P.02	7.71	P.63	P.21	MM1	ppm
LbJd	23P-1	P.61	7.y7	P.y1	P.M3	M71	ppm
Lit%Nu	6-1				13P		E
g JvobaiNu	24-2	4P77.43	4y16.y4	47M4.PP	4P4y.74	1.74	ppm
g JovJobab	MM-2	013.61	03P.y1	031.yM	037.1M	1.4y	ppm
g OwmdboNu	y4-1	0.42	0.M3	0.43	0.44	1.M3	ppm
g OwmdboNu	yM-1	3.11	3.3P	3.3P	3.3y	20.04	ppm
g OwmdboNu	y6-1	3.40	3.M3	3.46	3.46	7.42	ppm
g OwmdboNu	y7-1	3.37	3.10	3.11	3.13	2y.62	ppm
g OwmdboNu	yP-1	3.13	3.13	3.11	3.13	6.y1	ppm
8 bOdhu iNu	1M3-1						cpa
8 bOdhu iNu	1M3-2						cpa
8 ickbw	63-2	1y.6y	1y.6P	1P.6P	1y.0M	0.32	ppm
I %Oap%OeNa	01-2	y26.17	y27.0P	P1My7	PPy.P4	7.1y	ppm
I OtJaaiNu	0y-2	1044.74	102MP2	1264.M0	1011.73	0.23	ppm
n %OdiNu	130-1				137		E
n %OdiNu	130-2				130		E
r cJodiNu	4M-1				13y		E
r cJodiNu	4M-2				yy		E
r bwboiNu	P2-1	-3.13	3.01	-3.11	3.30	6PP.PM	ppm
r bwboiNu	77-2	4.1M	y.40	P.0y	7.02	0P.23	ppm
r bwboiNu	7P-2	1.P2	2.34	2.M2	2.10	16.P3	ppm
r iwcOo	2P-1	2P7M11	2641.PM	2P16.3y	2777.6y	4.07	ppm
r iwRbe	137-1	3.3M	3.34	3.36	3.3M	1y.My	ppm
r iwRbe	13y-1	3.34	3.3M	3.34	3.34	7.02	ppm
r OdiNu	20-2	176.y3	174.43	16y.3P	170.46	2.03	ppm
r teOotiNu	P6-1	16.PP	1My2	16.yM	16.MP	0.47	ppm
r teOotiNu	PP-1	16.PP	1My6	16.y7	16.63	0.07	ppm
r NwNe	04-1	-2716.22	-0644.76	-0324.20	-012P.43		ppm
TbemiNu	1My-1				13P		E
TbemiNu	1My-2				133		E
T%JwiNu	230-1	3.13	3.37	3.3P	3.3P	1y.00	ppm
T%JwiNu	23M-1	3.3P	3.3y	3.13	3.3y	y.7y	ppm
Tio	11P-1	3.46	3.44	3.4M	3.4M	2.47	ppm
TitJoiNu	47-1	722.40	663.24	727.4M	730.07	M02	ppm
FeJoiNu	20P-1	1.4y	1.40	1.M7	1.M3	4.70	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	S pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	S 0463-24	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	A46L6	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2320-37-14 17:13:00	DJtJCiwb 8 Ju b :	361An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp0	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	M1-2	0P.y3	0P.17	07.4M	0P.17	1.y3	ppm
YttbemiNu	172-1						cpa
YttbemiNu	172-2						cpa
YttbemiNu	176-1						cpa
YttbemiNu	176-2						cpa
YtteiNu	Py-1				113		E
YtteiNu	Py-2				133		E
Zioc	66-2	44.P0	44.P7	40.M2	44.43	1.70	ppm
ZiecOoiNu	y3-1	1.y7	1.P6	1.y6	1.y0	0.23	ppm
ZiecOoiNu	y1-1	1.y0	1.72	1.y7	1.P7	7.1M	ppm

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	o l era&ar:9	Jaswal
Lab:pamI le:D :9	SS03-1	D5s&um5e&Name:9	P8
SIAe5&pamI le:D :9	SS03-1	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:cqduAeO.9	232-73 714:1 92 914	t a&aFAe:Name:9	36CSS0.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel -	cvg.:Sn5q.	Sn5qRpt	U5A&s
clumA5Aum	2 72	48C- .3y	4 48.C4	C336 .C8	48 84.43	2.42	I I b
c5&mn5h	12171	C3 .41	4y . 2	C1y.-2	C38.1C	2.1-	I I b
crse5Aq	C72	4y .6y	C3 .38	C36.66	C3-.81	1.3C	I I b
BarAum	1-C71	2CC1.61	24 -.y	2623.2y	2C48.62	2.8	I I b
BarAum	1- 71	2C- .yy	2C-4.yy	2C 2. C	2C48.C8	3.82	I I b
BerhllAum	y71	C34.22	488.22	4y4.4-	4yC.62	1.6-	I I b
BAsmu&%	23y71				y		E
BAsmu&%	23y72				y4		E
BrnmA5e	8171						ql s
SaOmAum	13871	C-8.-4	C1C.C8	C4-.64	C-2.C2	2.83	I I b
SaOmAum	13671	C28. 8	C28.3y	C42.4-	C--.13	1.C2	I I b
SaOmAum	11171	C-y.38	C23.84	CC1. 4	C- .22	2.8y	I I b
SalqAum	4-71	2C 88.8-	2C1688.-C	2C3C--.8	2C---- .31	1.C4	I I b
SalqAum	4471	24y -. 1	24 2-4.C8	24668 .23	24 8y8.C3	3.66	I I b
Sarbn5	1271						ql s
Sarbn5	1272						ql s
S%nrA5e	-C71						ql s
S%nrA5e	-C72						ql s
S%nmAum	C272	4 -.y	46C.14	48-.6-	4 4.24	1.yC	I I b
Snbal&	Cy72	4y-.83	4C .	C31.83	484.46	4.84	I I b
SnI I er	6-72	4 1y.64	4 y8.6C	48 6. y	4 y8.-6	1.64	I I b
t hsI rnsAum	1C671						ql s
t hsI rnsAum	1C672						ql s
GrbAum	16471						ql s
GrbAum	16472						ql s
HaOnlA5Aum	16371						ql s
HaOnlA5Aum	16372						ql s
KnlmAum	16C71				134		E
KnlmAum	16C72				131		E
D5OAum	11C71				131		E
D5OAum	11C72				yC		E
Dn5	C472	1221y-.y-	1231C4.48	12Cy88.6y	122 y.34	2.41	I I b
Dn5	C672	123C 1. y	11841y.C8	1216C6.CC	12321C.y8	1.-	I I b
Dn5	C 72	12-2-6.y2	121121.C8	12--84.-1	122C83.y4	1.3-	I I b
krhl &a5	8-71						ql s
LeaO	23671	2463. 2	24C8. -	24y2.8	24 3. 8	3. 8	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	o l era&ar:9	Jaswal
Lab:pamI le:D :9	SS03-1	D5s&um5e&Name:9	P8
SIAe5&pamI le:D :9	SS03-1	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	232-73 714:1 92 914	t a&aFAe:Name:9	36CSS0.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel -	cvg.:Sn5q.	Sn5qRpt	U5A&s
LeaO	23 71	246C.63	24C4.C4	2C12. 8	24 .64	1.2C	I I b
LeaO	23871	2484.C2	248C.6-	2C3-.1-	24y1.3y	3.42	I I b
LA%Aum	671				y4		E
Mag5esAum	2472	2-8 8-. C	2-4CCy.C2	24-338.2-	2-8 8-.8-	1.	I I b
Ma5ga5ese	CC72	46yC.44	46- .68	484C. 4	4 26.2y	2.2	I I b
MnlhbOe5um	y471	C3-C.C4	C3-4.2	C18C.31	C384.y4	1. 3	I I b
MnlhbOe5um	yC71	C3 6.3C	4y61.16	C382.16	C3-y. y	1.-C	I I b
MnlhbOe5um	y671	C34y.-y	C38C. -	C232.-	C112.C3	1.C6	I I b
MnlhbOe5um	y 71	C1y2.4	C32 .8C	C23C.1y	C141.84	1.y2	I I b
MnlhbOe5um	y871	C1 1.36	C368.C8	C213.C1	C1C3.3C	1.42	I I b
NenOhmAum	1C371						ql s
NenOhmAum	1C372						ql s
NAqf el	6372	4 .-2	4 3.86	48-. 2	4 .-3	1.-C	I I b
P%nsI %nrus	-172	y- 4.34	y121.y	y4- .4	y-11.16	1. y	I I b
Pna&assAum	-y72	118362.yy	11y-21.48	123C-C.61	11y-36.6y	1.34	I I b
R%nOAum	13-71				y6		E
R%nOAum	13-72				yC		E
pqa5OAum	4C71				133		E
pqa5OAum	4C72				y8		E
pele5Aum	8271	C1 . y	C34.31	C18.8y	C1-.C6	1.61	I I b
pele5Aum	72	4 6.38	466.-2	46 .C6	46y.yy	1.1-	I I b
pele5Aum	872	4 C.31	4 6.13	481.1-	4 .41	3.68	I I b
pAAqn5	2871	4 1.12	4 y.yC	4y3.68	483.C8	2.34	I I b
pAver	13 71	4y8.68	4 4.--	4y .8	4y3.2y	2.82	I I b
pAver	13y71	4yy.13	4 C.C4	4yy.68	4y1.44	2.83	I I b
pnOAum	2-72	2- -y.-2	2- C3 .61	24C321.3-	24338y.-2	1. 8	I I b
p&n5&Aum	8671	1286C.1-	1241C.12	12 -8.12	126 2. y	1.8-	I I b
p&n5&Aum	8871	12 66.--	122C3.62	12 yC.y1	12634.2y	2.4-	I I b
pulVur	-471	13886.2y	13213.12	133-C.-4	13- .2C	4.--	I I b
i erbAum	1Cy71				13-		E
i erbAum	1Cy72				132		E
i %allAum	23-71	4y-.-y	C1C.8y	4y1.64	C33.-1	2. 3	I I b
i %allAum	23C71	4y1.yC	C34.8	4y-.6C	4y6.82	1.41	I I b
i A5	11871	C3-.13	488. 1	C3-.Cy	4y8.4	1. 3	I I b
i A&a5Aum	4 71	C146.8-	C33 .2y	4y6y.Cy	C341.24	1.8C	I I b
Ura5Aum	2-871	4y2.3-	4y4.84	C32.-3	4y6.-y	1.3	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	o l era&ar:9	Jaswal
Lab:pamI le:D :9	SS03-1	D5s&um5e&Name:9	P8
SIAe5&pamI le:D :9	SS03-1	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	232-73 714:1 92 914	t a&aFAe:Name:9	36CSS0.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel -	c vg.:Sn5q.	Sn5qRpt	U5A&s
0a5aOAum	C172	484.-4	4 .34	48y.O6	48-.6C	1.-3	I I b
Y&erbAum	1 271						ql s
Y&erbAum	1 272						ql s
Y&erbAum	1 671						ql s
Y&erbAum	1 672						ql s
Y&&Aum	8y71				131		E
Y&&Aum	8y72				yy		E
ZA5q	6672	468 .-2	464y.4y	4 16.2	4684.-6	3. 1	I I b
ZAqn5Aum	y371	C31.1	4y-.C4	C3y. 3	C31.4	1.61	I I b
ZAqn5Aum	y171	482.8y	4 C.6	4y-.66	484.38	1.8	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	o l era&ar :	Jaswal
Lab pamI le D :	SSB031	D5s&um5e&Name :	P8
SIAe5&pamI le D :	SSB031	t Au&n5 Faq&ar :	1
t a&e T i Ame cqduAeO:	2023-07-14 17:30:49	t a&aFAe Name :	066SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
clumA5Aum	27-2	1.19	2.03	2.08	1.79	2y.82	I I b
c5&mn5h	121-1	0.18	0.22	0.29	0.22	17.08	I I b
crse5Aq	79-2	0.04	0.03	0.03	0.03	3.y4	I I b
BarAum	139-1	0.14	0.23	0.12	0.16	39.64	I I b
BarAum	137-1	0.13	0.16	0.13	0.14	12.81	I I b
BerhllAum	y-1	0.0y	0.11	0.07	0.0y	22.02	I I b
BAsmu&%	20y-1				102		E
BAsmu&%	20y-2				101		E
BrnmA5e	81-1						ql s
SaOmAum	108-1	-0.09	-0.01	0.19	0.03	338.41	I I b
SaOmAum	106-1	-0.20	-2.11	-1.41	-1.24		I I b
SaOmAum	111-1	0.11	-0.06	-0.06	0.00		I I b
SalqAum	43-1	22.68	16.29	7.8y	19.60	47.91	I I b
SalqAum	44-1	94.28	90.81	41.16	48.79	13.y4	I I b
Sarbn5	12-1						ql s
Sarbn5	12-2						ql s
S%nrA5e	39-1						ql s
S%nrA5e	39-2						ql s
S%nmAum	92-2	-0.07	0.01	-0.01	-0.02		I I b
Snbal&	9y-2	0.02	0.01	0.01	0.01	48.61	I I b
SnI I er	63-2	0.93	0.70	0.76	0.66	17.3y	I I b
t hsI rnsAum	196-1						ql s
t hsI rnsAum	196-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
GaOnIA5Aum	160-1						ql s
GaOnIA5Aum	160-2						ql s
HnImAum	169-1				109		E
HnImAum	169-2				103		E
D5OAum	119-1				106		E
D5OAum	119-2				103		E
Dn5	94-2	2.34	4.y7	7.20	4.83	90.34	I I b
Dn5	96-2	3.3y	4.y0	9.0y	4.46	20.83	I I b
Dn5	97-2	3.07	3.80	2.82	3.23	19.73	I I b
Krhl &n5	83-1						ql s
LeaO	206-1	0.23	0.29	0.19	0.21	26.79	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	o l era&ar :	Jaswal
Lab pamI le D :	SSB031	D5s&um5e&Name :	P8
SIAe5&pamI le D :	SSB031	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2023-07-14 17:30:49	t a&aFAe Name :	066SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
LeaO	207-1	0.31	0.26	0.1y	0.29	23.42	I I b
LeaO	208-1	0.27	0.26	0.17	0.23	23.88	I I b
LA%Am	6-1				y8		E
Mag5esAm	24-2	9.03	9.03	6.84	9.63	18.96	I I b
Ma5ga5ese	99-2	0.12	0.21	0.19	0.16	28.30	I I b
MnlhbOe5um	y4-1	0.64	0.62	0.47	0.97	16.13	I I b
MnlhbOe5um	y9-1	0.77	0.6y	0.49	0.64	26.6y	I I b
MnlhbOe5um	y6-1	0.74	0.91	0.4y	0.98	24.y6	I I b
MnlhbOe5um	y7-1	0.70	0.92	0.46	0.96	22.3y	I I b
MnlhbOe5um	y8-1	0.71	0.66	0.47	0.61	21.12	I I b
NenOhmAm	190-1						ql s
NenOhmAm	190-2						ql s
NAqkel	60-2	-0.02	-0.01	-0.02	-0.01		I I b
P%nsI %nrus	31-2	-18.23	-32.81	-28.86	-26.63		I I b
Pn&assAm	3y-2	91.y1	66.96	66.0y	61.92	13.93	I I b
R%nOAm	103-1				104		E
R%nOAm	103-2				104		E
pqa5OAm	49-1				103		E
pqa5OAm	49-2				100		E
pele5Am	82-1	0.17	-0.36	-0.06	-0.08		I I b
pele5Am	77-2	-1.09	-1.09	-1.09	-1.09		I I b
pele5Am	78-2	-0.14	0.91	-0.93	-0.09		I I b
pAqn5	28-1	4.68	2.7y	2.21	3.23	40.08	I I b
pAver	107-1	0.09	0.04	0.02	0.03	46.48	I I b
pAver	10y-1	0.03	0.02	0.04	0.03	1y.23	I I b
pnOAm	23-2	118.71	124.31	120.03	121.02	2.42	I I b
p&n5&Am	86-1	1.04	1.07	0.4y	0.87	37.96	I I b
p&n5&Am	88-1	0.86	0.86	0.97	0.76	22.08	I I b
pulfur	34-1	901.81	2y1.61	41y.1y	404.20	26.20	I I b
i erbAm	19y-1				104		E
i erbAm	19y-2				102		E
i %allAm	203-1	0.24	0.22	0.18	0.21	16.10	I I b
i %allAm	209-1	0.29	0.24	0.20	0.23	10.91	I I b
i A5	118-1	0.02	0.03	0.09	0.03	46.46	I I b
i A&a5Am	47-1	0.47	0.98	0.37	0.48	22.72	I I b
Ura5Am	238-1	0.03	0.03	0.01	0.03	40.3y	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	o l era&ar :	Jaswal
Lab pamI le D :	SSB031	D5s&um5e&Name :	P8
SIAe5&pamI le D :	SSB031	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO:	2023-07-14 17:30:49	t a&aFAe Name :	066SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
Va5aOAum	91-2	0.01	0.01	0.00	0.01	92.2y	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	8y-1				104		E
Y&&Aum	8y-2				102		E
ZA5q	66-2	0.34	0.28	0.31	0.31	10.21	I I b
ZAqn5Aum	y0-1	0.09	0.03	0.03	0.04	2y.38	I I b
ZAqn5Aum	y1-1	0.02	0.03	0.08	0.04	79.72	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB150325BL	Instrumnet Name :	P8
Client Sample ID :	PBW325	Dilution Factor :	1
Date & Time Acquired :	2920-97-14 17:51:17	DataFile Name :	963CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep0	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.99	-9.95	9.18	9.08	145.53	ppb
Antimony	121-1	9.91	9.91	9.91	9.91	05.89	ppb
Arsenic	75-2	-9.90	-9.90	-9.90	-9.90		ppb
Barium	105-1	9.90	9.98	9.95	9.95	47.42	ppb
Barium	107-1	9.99	9.92	9.91	9.91	33.93	ppb
Beryllium	3-1	9.91	9.92	9.91	9.92	09.31	ppb
Bismuth	293-1				194		%
Bismuth	293-2				190		%
Bromine	81-1						cps
Cadmium	198-1	-9.16	-9.96	9.92	-9.97		ppb
Cadmium	196-1	-0.28	-2.37	9.10	-2.94		ppb
Cadmium	111-1	-9.20	-9.29	9.91	-9.14		ppb
Calcium	40-1	9.03	2.25	2.27	1.64	66.22	ppb
Calcium	44-1	15.67	19.85	7.61	11.08	05.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	05-1						cps
Chlorine	05-2						cps
Chromium	52-2	9.19	9.91	9.90	9.95	199.53	ppb
Cobalt	53-2	9.99	9.99	-9.91	-9.91		ppb
Copper	60-2	9.29	9.17	9.15	9.17	11.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	169-1						cps
Gadolinium	169-2						cps
Holmium	165-1				195		%
Holmium	165-2				192		%
Indium	115-1				198		%
Indium	115-2				191		%
Iron	54-2	9.02	-9.92	9.23	9.29	30.87	ppb
Iron	56-2	9.68	9.51	9.43	9.56	18.32	ppb
Iron	57-2	9.31	-1.21	-9.43	-9.26		ppb
Krypton	80-1						cps
Lead	296-1	9.90	9.91	9.90	9.92	64.77	ppb

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB150325BL	Instrumnet Name :	P8
Client Sample ID :	PBW325	Dilution Factor :	1
Date & Time Acquired :	2920-97-14 17:51:17	DataFile Name :	963CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep0	Avg. Conc.	ConcRSD	Units
Lead	297-1	9.95	9.92	-9.91	9.92	102.94	ppb
Lead	298-1	9.90	9.92	9.91	9.92	56.60	ppb
Lithium	6-1				194		%
Magnesium	24-2	1.68	9.16	9.59	9.78	191.87	ppb
Manganese	55-2	9.90	9.92	-9.92	9.91	211.14	ppb
Molybdenum	34-1	9.99	9.92	9.96	9.90	191.24	ppb
Molybdenum	35-1	9.91	9.94	9.97	9.94	66.27	ppb
Molybdenum	36-1	9.94	9.92	9.92	9.90	48.86	ppb
Molybdenum	37-1	9.90	9.95	9.95	9.94	29.32	ppb
Molybdenum	38-1	9.95	9.92	9.90	9.90	43.67	ppb
Neodymium	159-1						cps
Neodymium	159-2						cps
Nickel	69-2	9.91	-9.90	9.99	9.99		ppb
Phosphorus	01-2	-17.31	-26.98	-20.76	-22.58		ppb
Potassium	03-2	27.60	28.20	29.55	25.47	16.77	ppb
Rhodium	190-1				195		%
Rhodium	190-2				194		%
Scandium	45-1				196		%
Scandium	45-2				199		%
Selenium	82-1	-9.02	-9.16	9.14	-9.11		ppb
Selenium	77-2	9.99	-1.95	-1.95	-9.79		ppb
Selenium	78-2	-9.04	9.92	9.93	-9.98		ppb
Silicon	28-1	0.40	9.90	-1.56	9.60	492.43	ppb
Silver	197-1	9.92	9.91	9.92	9.91	24.78	ppb
Silver	193-1	9.99	9.91	9.99	9.99	62.48	ppb
Sodium	20-2	05.95	28.81	27.34	09.69	12.67	ppb
Strontium	86-1	9.14	9.97	9.96	9.93	40.63	ppb
Strontium	88-1	9.98	9.97	9.93	9.98	12.20	ppb
Sulfur	04-1	704.98	275.80	6.07	008.76	198.61	ppb
Terbium	153-1				197		%
Terbium	153-2				192		%
Thallium	290-1	9.90	9.92	9.90	9.90	29.80	ppb
Thallium	295-1	9.94	9.90	9.94	9.94	15.18	ppb
Tin	118-1	-9.91	9.99	-9.92	-9.91		ppb
Titanium	47-1	9.98	9.11	9.96	9.98	09.91	ppb
Uranium	208-1	9.99	9.99	9.99	9.99	203.30	ppb

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LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB150325BL	Instrumnet Name :	P8
Client Sample ID :	PBW325	Dilution Factor :	1
Date & Time Acquired :	2920-97-14 17:51:17	DataFile Name :	963CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep0	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-9.91	-9.91	-9.91	-9.91		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	83-1				197		%
Yttrium	83-2				191		%
Zinc	66-2	-9.92	9.99	9.98	9.92	257.00	ppb
Zirconium	39-1	9.99	-9.91	9.99	9.99		ppb
Zirconium	31-1	-9.91	9.99	9.99	9.99		ppb

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Inst Id :P8

LBJumb er pJa	LB126466	o l r pw8apJa	swl Pw8
LweJ7wb l 8 JD JaJ	SB103-20B7	D5l &pmb 5r &uwb r Ja	SN
C8A 5&7wb l 8 JD JaJ	LC7-20	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2 23: 9:14J19a04a2	t w&WJA8 Juwb r Ja	9 LC7. FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 3	cgMFCn5qF	Cn5qv 7t	R5A&
c 8mb A5Amb	29:2	2-F-	32F12	33F31	31F9N	0F44	l l e
c 5&b n5h	121:1	2F-9	3F-6	3F04	3F4-	14F10	l l e
cpl r 5Aq	90:2	1F9N	1F62	1F66	1F6-	0F 1	l l e
BwpAmb	130:1	14F 4	1NF41	19F N	16F01	13F00	l l e
BwpAmb	139:1	10F N	1-F 2	19FN1	19F3	11F60	l l e
Br ph8Amb	-:1	1F4N	1FN0	1FN1	1F91	12F12	l l e
BAAb m8%	2 -:1				-0		E
BAAb m8%	2 -:2				1		E
Bpmb A5r	N1:1						qll
CwCb Amb	1 N:1	1F44	2F11	1F-3	1FN3	1-F 0	l l e
CwCb Amb	1 6:1	1F06	2F 6	:1F34	F96	241FN0	l l e
CwCb Amb	111:1	1F60	2F32	1F9-	1F-2	1NF2N	l l e
Cw&qAmb	43:1	9 3F0N	N- F22	NN1F3	N20F 3	12F96	l l e
Cw&qAmb	44:1	9 -FN-	N-6F30	-16F--	N41F N	13F06	l l e
Cwpen5	12:1						qll
Cwpen5	12:2						qll
C%&np5r	30:1						qll
C%&np5r	30:2						qll
C%pmb Amb	02:2	3F 1	3F-	3F1N	3F-	2F94	l l e
Cnew&&	0-:2	1F06	1F04	1F61	1F09	2F24	l l e
CnI l r p	63:2	3F36	3F44	3F49	3F42	1F06	l l e
t hl l pnl Amb	106:1						qll
t hl l pnl Amb	106:2						qll
. peAmb	164:1						qll
. peAmb	164:2						qll
GwOn8&5Amb	16 :1						qll
GwOn8&5Amb	16 :2						qll
Hn8b Amb	160:1				-6		E
Hn8b Amb	160:2				1 2		E
D5OAmb	110:1				--		E
D5OAmb	110:2				1 1		E
Dpn5	04:2	32NF01	33 F03	333F 1	33 F6N	F6N	l l e
Dpn5	06:2	32 F2	322FN0	322F6-	321F-1	F46	l l e
Dpn5	09:2	314F30	323F61	332FN9	323F61	2FN6	l l e
Kphl &a5	N3:1						qll
LrwO	2 6:1	1F44	1FN	1F62	1F62	11F N	l l e

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Inst Id :P8

LBJumb er pJa	LB126466	o l r pw8apJa	swl Pw8
LweJ7wb l 8 JD JaJ	SB103-20B7	D5l &pmb 5r &uwb r Ja	SN
C8A 5&7wb l 8 JD JaJ	LC7-20	t A8m8A 5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2 23: 9:14J19a04a2	t w&WUA8 Juwb r Ja	9 LC7. FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 3	cgMFCn5qF	Cn5qv 7t	R5A&
Lr wO	2 9:1	1F40	1FN2	1F0N	1F62	11F6	l l e
Lr wO	2 N:1	1F41	1FN	1F69	1F63	12F20	l l e
LA&%Amb	6:1				-9		E
y wW5r l Amb	24:2	N 1F31	N2NF99	N43F62	N24F09	2F6	l l e
y w5Mw5r l r	00:2	1F00	1F62	1F44	1F04	0FNN	l l e
y n8neOr 5mb	-4:1	NF0N	11F16	1 FN0	1 F1-	13F9-	l l e
y n8neOr 5mb	-0:1	9F 2	-F 2	-F	NF30	13F90	l l e
y n8neOr 5mb	-6:1	9F11	-F36	NFN1	NF43	13F-2	l l e
y n8neOr 5mb	-9:1	9F4	-F26	-F 2	NF06	11FN4	l l e
y n8neOr 5mb	-N:1	9F23	-F30	NF-N	NF02	13F31	l l e
u r nOhb Amb	10 :1						q l l
u r nOhb Amb	10 :2						q l l
u Aqkr 8	6 :2	1F60	1F6	1F62	1F62	1F96	l l e
S%nl l %npm	31:2	:1-FNN	:36F-0	:33F43	:3 F-		l l e
Sn&w l Amb	3-:2	N1-F93	9--F-9	N14F30	N11F30	1F26	l l e
v %nOAmb	1 3:1				-9		E
v %nOAmb	1 3:2				1 4		E
7qw5OAmb	40:1				-9		E
7qw5OAmb	40:2				1		E
7r 8 5Amb	N2:1	6FN3	-F 3	NF-2	NF26	10F 0	l l e
7r 8 5Amb	99:2	-F33	4F19	4F-	0FN6	01F2	l l e
7r 8 5Amb	9N:2	NF-2	NF31	9F9-	NF34	6F9N	l l e
7A&qn5	2N:1	14F19	2NF3-	2NF2	23F0-	34F0-	l l e
7A&gr p	1 9:1	1F40	1FN6	1F-6	1F96	10F06	l l e
7A&gr p	1 -:1	1F01	2F 6	1F-N	1FN0	16F N	l l e
7nOAmb	23:2	N3 F2N	N4 F01	N31F9-	N34F1-	F66	l l e
7 8m5&Amb	N6:1	1F00	1F-3	1F-6	1FN1	12F0-	l l e
7 8m5&Amb	NN:1	1F62	2F	1F-9	1FN6	11F19	l l e
7m6mp	34:1	129F46	202 F23	2003F32	1933F69	N F24	l l e
i r peAmb	10-:1				-N		E
i r peAmb	10-:2				1 1		E
i %w8Amb	2 3:1	1F3-	1FN0	1F69	1F63	14F 1	l l e
i %w8Amb	2 0:1	1F0	1FNN	1F92	1F9	11F22	l l e
i A5	11N:1	: F 2	F 0	: F 3	F	16N4FNN	l l e
i A&w5Amb	49:1	9F16	1 F60	1 F4	-F4	2 F91	l l e
Rpw5Amb	23N:1	1F3N	1F90	1F62	1F0N	11FN2	l l e

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJumb erpJa	LB126466	o l r pw8apJa	swl Pw8
LweJ7wb l 8 JD JaJ	SB103-20B7	D5l &pmb 5r &u wb r Ja	SN
C8A5&7wb l 8 JD JaJ	LC7-20	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2 23: 9:14J19a04a2	t w&WUA8 Ju wb r Ja	9 LC7. FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 3	cgMFCn5qF	Cn5qv 7t	R5A&
Vw5wOAmb	01:2	9F92	NF 3	NF 1	9F 2	2F19	l l e
Y8& peAmb	192:1						ql l
Y8& peAmb	192:2						ql l
Y8& peAmb	196:1						ql l
Y8& peAmb	196:2						ql l
Y8qeAmb	N-:1				- -		E
Y8qeAmb	N-:2				1 1		E
ZA5q	66:2	9F30	9F99	9F93	9F62	3F 3	l l e
ZAqn5Amb	- :1	1F4	1FN0	1F99	1F69	14F44	l l e
ZAqn5Amb	- 1:1	1F4N	1F92	1F66	1F62	9F91	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	SDr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	S0232-70	t5wTpmb 5r Tu sb r :9	8N
v Pr 5TI sb DPP:t&:9	y h 7F31	&dPmTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2720-7 -14:1 9J 9220	&sTsFdP:u sb r :9	7 1qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2 -2	16J7U04	16 0U67	1670U1J	1642U06	2U13	DDe
q5Tb n5%	121-1	7U16	7U1J	7U16	7U16	JU0N	DDe
qpwr 5cd	J-2	7UN1	7UN2	7UNN	7UN4	4U16	DDe
Bspcmb	10J-1	66U4	6 UJ7	60U0	6JUN	0U2	DDe
Bspcmb	10 -1	6JUJ1	6 UN0	64UJ2	6JU36	2UJN	DDe
Br p%PPcmb	3-1	7UJ4	7UJ0	7UJN	7UJJ	4U03	DDe
Bcvb mTE	273-1				33		G
Bcvb mTE	273-2				177		G
Bpmb c5r	N1-1						dDw
v sob cmb	17N-1	7U12	7U16	7U04	7U21	JNU16	DDe
v sob cmb	176-1	-1U7	-1U23	-2UN3	-1U36		DDe
v sob cmb	111-1	-7U11	-7U7	-7U1N	-7U12		DDe
v sPdcmb	40-1	20416U7N	2432JU0N	20 2NU1	24720U03	0U02	DDe
v sPdcmb	44-1	244N0U62	2J130U33	24432UN6	24 20U43	1U6J	DDe
v spen5	12-1						dDw
v spen5	12-2						dDw
v EPhpc5r	0J-1						dDw
v EPhpc5r	0J-2						dDw
v Epmb cmb	J2-2	1U6N	1U6	1U66	1U6	7U4J	DDe
v nesPT	J3-2	7U42	7U4N	7U46	7U4J	6U63	DDe
v nDDr p	60-2	2U20	2U26	2U16	2U22	2U46	DDe
&%wDpnwcmb	1J6-1						dDw
&%wDpnwcmb	1J6-2						dDw
. pecmb	164-1						dDw
. pecmb	164-2						dDw
HsonP5cmb	167-1						dDw
HsonP5cmb	167-2						dDw
h nPb cmb	16J-1				170		G
h nPb cmb	16J-2				172		G
t5ocmb	11J-1				174		G
t5ocmb	11J-2				3		G
tpn5	J4-2	2172U1	212JU44	276JU14	273 UJN	1U4J	DDe
tpn5	J6-2	21N7U1	21N2UN7	210JUJN	2166U06	1U20	DDe
tpn5	J -2	276 U32	2732U4	27 U7J	27 3U1J	7U67	DDe
Kp%DTn5	N0-1						dDw
Lr so	276-1	2U60	2UJ0	2U	2U64	4U4J	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	SDr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	S0232-70	t5wTpmb 5r Tu sb r :9	8N
v Pr 5TI sb DPP:t&:9	y h 7F31	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2720-7 -14:1 9J 920	&sTsFdPP:u sb r :9	7 1qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	27 -1	2U47	2UJ0	2U42	2U4J	2U30	DDe
Lr so	27N-1	2UJ	2UJN	2UJ3	2UJN	7U46	DDe
LdTEomb	6-1				172		G
y sM5r womb	24-2	J114U63	J1 1U7J	430JU63	J7 0UN1	2U42	DDe
y s5Ms5r w	JJ-2	173U2	111UNN	173U6	117U42	1U14	DDe
y nP%eor 5mb	34-1	0UN7	4U13	4U77	4U77	4UN3	DDe
y nP%eor 5mb	3J-1	1U66	1U32	1U3	1U3	U23	DDe
y nP%eor 5mb	36-1	1U32	2U1N	2U77	2U70	6U6N	DDe
y nP%eor 5mb	3 -1	1UN	1U31	1UN0	1UN	2U16	DDe
y nP%eor 5mb	3N-1	1UNN	1UN2	1UN7	1UN0	2U20	DDe
u r no%b omb	1J7-1						dDw
u r no%b omb	1J7-2						dDw
u dkr P	67-2	1U23	1U24	1U07	1U2N	2U4	DDe
8EnwDEnpmw	01-2	27UJ	43U06	J6U66	42U26	44U32	DDe
8nTswwomb	03-2	2 33U1	2NNJU06	2N17U4	2N01U6	1U6J	DDe
CEnoomb	170-1				171		G
CEnoomb	170-2				171		G
I ds5oomb	4J-1				170		G
I ds5oomb	4J-2				3J		G
I rP5omb	N2-1	7U6N	7U	7U1J	7UJ0	62UNU	DDe
I rP5omb	-2	UJ3	U6N	2U17	JU3	JJU20	DDe
I rP5omb	N-2	7UN6	7U43	7U33	7UN	00U04	DDe
I dPdn5	2N-1	06NUJ2	662U4N	26NU61	400U21	2UJ	DDe
I dPgr p	17 -1	7U71	7U71	7U72	7U72	J7U01	DDe
I dPgr p	173-1	7U71	7U77	7U72	7U71	67U04	DDe
I nomb	20-2	1JJN0UJ	1JNJ6U42	1J277U1J	1JJ46U	2U12	DDe
I Tpm5Tomb	N6-1	111U10	11NU21	117U0	110U24	0UN2	DDe
I Tpm5Tomb	NN-1	127U10	122U20	11 U31	127U73	1UN7	DDe
I mPmp	04-1	J020U41	6716U41	J703U22	J4J3U6N	3U21	DDe
Ar peomb	1J3-1				172		G
Ar peomb	1J3-2				177		G
AEsPPmb	270-1	7U73	7U74	7U7	7U76	0NU06	DDe
AEsPPmb	27J-1	7U73	7U7N	7U76	7U7	27U01	DDe
Ad5	11N-1	1U73	1U27	1U27	1U1	JU40	DDe
AdS5omb	4 -1	63U74	2U01	63U2	7U0J	2U4J	DDe
Rps5omb	20N-1	1UN0	1U30	1UN1	1UN6	0U41	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p9	LB126466	SDr psTnp9	aswl sP
Lse:I sb DPP:t&:9	S0232-70	t5wTpmb 5r Tu sb r :9	8N
v Pr 5TI sb DPP:t&:9	y h 7F31	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2720-7 -14:1 9J 9220	&sTsFdP:u sb r :9	7 1qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	J1-2	2U6N	2UN4	2U 1	2U 4	0U13	DDe
YTTr peomb	1 2-1						dDw
YTTr peomb	1 2-2						dDw
YTTr peomb	1 6-1						dDw
YTTr peomb	1 6-2						dDw
YTTpomb	N3-1				17J		G
YTTpomb	N3-2				3N		G
Zc5d	66-2	02U61	0JU20	01UN7	00U21	JU47	DDe
Zqpdn5omb	37-1	1U02	1U42	1U4	1U47	JU0J	DDe
Zqpdn5omb	31-1	1U23	1UJ1	1U0N	1U03	U36	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	SI ers&or:J	aswl sP
Lsb:psmI Re:D :J	S0232-74	Dw&umne&Nsme:J	8 9
RFen&psmI Re:D :J	My 7. 32	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2720-7 -14:19J77J20	t s&s. Ae:Nsme:J	7 2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAm	2 -2	027F34	019F34	079F04	016F7	2F14	I I b
cn&Amonh	121-1	7F79	7F73	7F73	7F73	6F3%	I I b
crwenAq	%2	7F33	7F97	7F60	7F91	22F10	I I b
BsrAm	10%1	%4F63	%4F01	%6F %	%%F2%	2F09	I I b
BsrAm	10 -1	%0F69	%%F%2	%%F29	%4F90	1F92	I I b
BerhFAm	3-1	7F0	7F0	7F0%	7F06	4F16	I I b
BAmu&E	273-1				171		G
BAmu&E	273-2				33		G
BromAne	91-1						ql w
RsOmAm	179-1	7F2	7F20	7F06	7F23	22F%9	I I b
RsOmAm	176-1	-7F33	-2F2%	-7F24	-1F16		I I b
RsOmAm	111-1	-7F71	-7F10	7F72	-7F74		I I b
RsRqAm	40-1	23797F91	23206F3	23440F60	232%0F97	7F62	I I b
RsRqAm	44-1	29996F62	23393F69	239%0F27	23% 6F%7	2F70	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	0%1						ql w
REFrAne	0%2						ql w
REromAm	%2-2	7F04	7F40	7F46	7F41	1%F00	I I b
RobsR&	%3-2	7F67	7F%%	7F67	7F%9	%F03	I I b
RoI I er	60-2	1F03	1F0	1F07	1F0%	0F02	I I b
t hwI rowAm	1%6-1						ql w
t hwI rowAm	1%6-2						ql w
CrbAm	164-1						ql w
CrbAm	164-2						ql w
HsOoFAm	167-1						ql w
HsOoFAm	167-2						ql w
y oFmAm	16%1				17%		G
y oFmAm	16%2				172		G
DrOAm	11%1				17%		G
DrOAm	11%2				39		G
Don	%4-2	613F7%	676F02	629F07	61 F93	1F 3	I I b
Don	%6-2	612F79	67%F41	%36F49	674F6%	1F23	I I b
Don	% -2	6%0F49	649F99	6%%F%	6%2F64	7F%2	I I b
KrhI &on	90-1						ql w
LesO	276-1	1F66	1F66	1F61	1F64	1F92	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	S I ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-74	Dw&umne&Nsme:J	8 9
RAen&psml Re:D :J	My 7. 32	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2720-7 -14:19J77J20	t s&s. Ae:Nsme:J	7 2c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	Un&w
LesO	27 -1	1F%0	1F%	1F46	1F%2	0F%	I I b
LesO	279-1	1F%9	1F62	1F61	1F67	1F06	I I b
LAEAum	6-1				177		G
MsgnewAum	24-2	0%0F47	1 1F22	137F 3	209F4	1F09	I I b
Msngsnewe	%%2	11%F04	114F6%	114F11	114F 7	7F%4	I I b
MoPbOenum	34-1	%F76	%F07	%F2	%F21	2F4%	I I b
MoPbOenum	3%1	4F67	%F73	4F36	4F99	%F21	I I b
MoPbOenum	36-1	4F30	%F7%	%F7	%F72	1F43	I I b
MoPbOenum	3 -1	4F36	%F14	%F24	%F11	2F94	I I b
MoPbOenum	39-1	%F74	%F27	4F91	%F72	0F99	I I b
NeoChmAum	1%7-1						ql w
NeoChmAum	1%7-2						ql w
NAqkeP	67-2	7F6%	7F67	7F61	7F62	0F34	I I b
8EowI Eoruw	01-2	-1F09	20F44	07F39	1 F69	3%F %	I I b
8o&swwAum	03-2	2 13F64	2 17F34	2693F 0	2 76F	7F%	I I b
5EoOAum	170-1				171		G
5EoOAum	170-2				177		G
pqsnOAum	4%1				172		G
pqsnOAum	4%2				36		G
peRenAum	92-1	7F 9	7F 1	7F90	7F 9	F 3	I I b
peRenAum	-2	0F2	1F73	2F1	2F19	%7F70	I I b
peRenAum	9-2	1F06	1F20	7F96	1F1%	22F91	I I b
pARqon	29-1	%479F96	%469F96	%%1 F3%	%46%F22	1F77	I I b
pARer	17 -1	7F71	7F71	7F77	7F77	110F 9	I I b
pARer	173-1	7F71	7F77	7F77	7F71	9%F2%	I I b
poOAum	20-2	2704%F29	13367F60	13971F 2	2770%F99	1F03	I I b
p&onAum	96-1	164F7	163F%0	164F30	166F19	1F	I I b
p&onAum	99-1	1 2F20	1 4F60	1 2F99	1 0F2%	7F 2	I I b
pulPur	04-1	10292F0%	10010F0%	10013F96	1007%F13	7F1%	I I b
i erbAum	1%3-1				170		G
i erbAum	1%3-2				177		G
i EsRAum	270-1	7F72	7F74	7F72	7F70	00F01	I I b
i EsRAum	27%1	7F70	7F74	7F70	7F70	21F90	I I b
i An	119-1	7F26	7F21	7F02	7F26	27F29	I I b
i A&snAum	4 -1	10F 7	14F7	14F17	10F36	1F%3	I I b
UrsnAum	209-1	2F72	2F17	2F72	2F7%	2F27	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	S I ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-74	Dw&umne&Nsme:J	8 9
RFen&psml Re:D :J	My 7. 32	t Ro&on:. sq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2720-7 -14:19J77J20	t s&s. Re:Nsme:J	7 2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	%1-2	7F37	7F	7F	7F91	3F12	I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	93-1				174		G
Y&&Aum	93-2				3		G
ZAnq	66-2	4%F36	46F62	46F12	46F24	7F %	I I b
ZAqonAum	37-1	7P%7	7F4	7P%9	7P%2	17F03	I I b
ZAqonAum	31-1	7F4%	7P%1	7P%0	7P%7	P%2	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9a	LB126466	SDr pwTnp9a	swl Pw8
Lwe9l wb D8 9l&9a9	S0232-7	t5l Tpmb 5r T9u wb r 9a	NJ
v 8r 5T9 wb D8 9l&9a9	y h 7F30	&8mTm59FwdTnp9a	1
&wTr 9 9Adb r 9qdOmpr o9a	2720-7: -1491Ja70a21	&wTwFd8 9u wb r 9a	7: 0qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgM9v n5dU	v n5dCl &	R5dT
q8mb d5cmb	2: -2	366U:	360U4:	3: 2UJ3	36: U1	7U43	DDe
q5Tb n5%	121-1	7U17	7U11	7U17	7U17	2U3J	DDe
qpl r 5cd	: -2	7U34	1U7	7UJJ	7U36	3U27	DDe
Bwpcmb	10 -1	: U0	3U47	2U3	6U:	6U2J	DDe
Bwpcmb	10: -1	67U77	67U14	4UJJ	JU04	U10	DDe
Br p%8cmb	3-1	7U41	7U40	7U0J	7U41	6U01	DDe
Bdb mTE	273-1				170		G
Bdb mTE	273-2				3J		G
Bpmb d5r	J1-1						dDl
v wob cmb	17J-1	7U4:	7U7:	7U12	7U22	3JU67	DDe
v wob cmb	176-1	-0U12	-1U70	-0U2	-2U4:		DDe
v wob cmb	111-1	-7U1:	-7U71	-7U16	-7U11		DDe
v w8dcmb	40-1	23077U4:	2J03: U63	2: 440U76	2J0J7U47	0U2:	DDe
v w8dcmb	44-1	23J 6U0	234 : U0	2: J 3U33	237 : U36	0U64	DDe
v wpen5	12-1						dDl
v wpen5	12-2						dDl
v E8hpd5r	0 -1						dDl
v E8hpd5r	0 -2						dDl
v Epmb cmb	2-2	1U27	1U2	1U04	1U26	U0	DDe
v new8T	3-2	7U66	7U6:	7U7	7U6J	0U04	DDe
v nDDr p	60-2	1U6	1U62	1U64	1U6:	4U6:	DDe
&%Dpnl cmb	1 6-1						dDl
&%Dpnl cmb	1 6-2						dDl
. pecmb	164-1						dDl
. pecmb	164-2						dDl
Hwon85cmb	167-1						dDl
Hwon85cmb	167-2						dDl
h n8b cmb	16 -1				17		G
h n8b cmb	16 -2				33		G
t5ocmb	11 -1				173		G
t5ocmb	11 -2				36		G
tpn5	4-2	1037U1:	10: 2U16	103 U4J	10J U30	7UJJ	DDe
tpn5	6-2	146JU4J	1412U33	14: : U46	14 2U3J	2U47	DDe
tpn5	: -2	1412U03	10J6U70	1401U32	1417U11	1U60	DDe
Kp%DTn5	J0-1						dDl
Lr wo	276-1	2U2J	2U0	2U74	2U22	: U4:	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9a	LB126466	SDr pwTnp9a	swl Pw8
Lwe9l wb D8 9l&9a9	S0232-7	t5l Tpmb 5r T9u wb r 9a	NJ
v 8r 5T9 wb D8 9l&9a9	y h 7F30	&c8mTcn59FwdTnp9a	1
&wTr 9 9Acb r 9qdOmpr o9a	2720-7: -1491Ja70a21	&wTwFc8 9u wb r 9a	7: 0qC. Fub

NwpwbrTrp	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgM9v n5dU	v n5dCl &	R5cT
Lr wo	27: -1	2U26	2U13	2U76	2U1:	4U0	DDe
Lr wo	27J-1	2U26	2U23	2U11	2U22	4U01	DDe
LcTEcmb	6-1				172		G
y wW5rl cmb	24-2	: 21: U22	: 1: 3UJ4	: 07 U0	: 204U14	7UJ3	DDe
y w5Mw5rl r	-2	121U7	113U66	120U:	121U64	1U61	DDe
y n8%eor 5mb	34-1	6U4J	6U2	6UJ	6U6J	2UJ0	DDe
y n8%eor 5mb	3 -1	6U27	6U2	UJ:	6U11	0U4	DDe
y n8%eor 5mb	36-1	6U06	U3J	U2	6U72	U04	DDe
y n8%eor 5mb	3: -1	6U41	6U06	6U1J	6U02	1U31	DDe
y n8%eor 5mb	3J-1	6U07	6U43	6U1:	6U02	2U4	DDe
u r no%b cmb	1 7-1						dDl
u r no%b cmb	1 7-2						dDl
u cdkr 8	67-2	1U2J	1U22	1U16	1U22	4U31	DDe
NEnl DEnpml	01-2	16U44	13U14	0 U62	20U0	40U	DDe
NnTwl cmb	03-2	071JU6:	2304U06	072 U32	2332U3J	1U7	DDe
CEnocmb	170-1				176		G
CEnocmb	170-2				33		G
l dw5ocmb	4 -1				17		G
l dw5ocmb	4 -2				36		G
l r 8 5cmb	J2-1	7U4	7U64	7U20	7U44	4: U16	DDe
l r 8 5cmb	: : -2	4U07	U4	: U1	UJ2	23U:	DDe
l r 8 5cmb	: J-2	1U60	1U:	1U77	1U47	24UJJ	DDe
l c8dn5	2J-1	6: : 3UJ1	6601U67	600 U:	6 J2U03	0U40	DDe
l c8gr p	17: -1	7U71	7U71	7U77	7U71	U33	DDe
l c8gr p	173-1	7U72	7U71	7U71	7U71	23U03	DDe
l nocmb	20-2	13362U03	13042U10	277 1U7	13: J U41	1U3	DDe
l Tpn5Tcmb	J6-1	16 U33	166U2	1 U73	162U0	0U3:	DDe
l Tpn5Tcmb	JJ-1	1: U4	1: 6U21	164U3J	1: 2U01	0U6J	DDe
l m8mp	04-1	10 70U14	12: 4: U2	11422U00	12 : U66	JU03	DDe
Ar pecmb	1 3-1				17:		G
Ar pecmb	1 3-2				33		G
AEw8cmb	270-1	7U70	7U70	7U74	7U70	22U4J	DDe
AEw8cmb	27 -1	7U70	7U74	7U74	7U74	1JU27	DDe
Ac5	11J-1	7U62	7U1	7U7	7U61	16U:	DDe
AcTw5cmb	4: -1	44U1	4 U00	42U3:	44U2:	2U7	DDe
Rpw5cmb	20J-1	2U17	2U10	1U3:	2U7:	4U12	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9a	LB126466	SDr pwTnp9a	swl Pw8
Lwe9l wb D8 9l&9a9	S0232-7	t5l Tpmb 5r T9u wb r 9a	NJ
v 8r 5T9 wb D8 9l&9a9	y h 7F30	&8mTm59FwdTnp9a	1
&wTr 9 9Adb r 9qdOmpr o9a	2720-7: -1491Ja70a21	&wTwFd8 9u wb r 9a	7: 0qC. Fub

NwpwbrTrp	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgM9v n5dU	v n5dCl &	R5dT
Vw5wocmb	1-2	1U3	1U7	1U	1U	2UJ3	DDe
YTTr pecmb	1: 2-1						dDl
YTTr pecmb	1: 2-2						dDl
YTTr pecmb	1: 6-1						dDl
YTTr pecmb	1: 6-2						dDl
YTTpcmb	J3-1				17:		G
YTTpcmb	J3-2				3:		G
Zc5d	66-2	U62	1UJ0	4U17	0UJ	0U4	DDe
Zqcdn5cmb	37-1	7U31	7UJ	7U3	7UJ	:U4	DDe
Zqcdn5cmb	31-1	7UJ1	7UJ7	7U6	7U3	0U11	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	SI ers&or:J	aswl sP
Lsb:psmI Re:D :J	S0232-76	Dw&umne&Nsme:J	8 9
RFen&psmI Re:D :J	My 7. 30t	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2720-7 -14:19J76.J21	t s&s. Re:Nsme:J	7 4c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAm	2 -2	177 F49	172hF72	1772F6h	1711F 2	1F16	I I b
cn&mon%	121-1	7F73	7F79	7F17	7F73	F27	I I b
crwenAq	h-2	7F32	7F39	7F39	7F36	0F32	I I b
BsrAm	10h-1	hhF2h	hhF91	h4F06	hhF14	1F02	I I b
BsrAm	10 -1	hhF46	h6F 9	h4F33	hhF h	1F6	I I b
Ber%BAm	3-1	7F47	7F0	7F42	7F47	hF06	I I b
BAmu&E	273-1				174		G
BAmu&E	273-2				33		G
BromAe	91-1						ql w
RsOmAm	179-1	7F17	7F47	7F27	7F20	64F26	I I b
RsOmAm	176-1	-1F06	-1F33	-7F32	-1F42		I I b
RsOmAm	111-1	-7F7h	-7F12	-7F71	-7F76		I I b
RsRqAm	40-1	2 492F94	2 62F23	29246F21	2 907F4h	1F03	I I b
RsRqAm	44-1	2929hF39	29246F72	29999F71	294 0F04	1F26	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REBrAe	0h-1						ql w
REBrAe	0h-2						ql w
REromAm	h2-2	1F13	1F01	1F16	1F22	6F42	I I b
RobsR&	h3-2	7F63	7F63	7F64	7F6	0F96	I I b
RoI I er	60-2	1F69	1F 7	1F64	1F69	1F91	I I b
t %wI rowAm	1h6-1						ql w
t %wI rowAm	1h6-2						ql w
CrbAm	164-1						ql w
CrbAm	164-2						ql w
HsOoFAm	167-1						ql w
HsOoFAm	167-2						ql w
y oFmAm	16h-1				17		G
y oFmAm	16h-2				172		G
DOAm	11h-1				117		G
DOAm	11h-2				39		G
Don	h4-2	1032F77	1479Fh	1473F16	1470F24	7F63	I I b
Don	h6-2	14h9F73	1496F22	14 4F90	14 0F7h	7F36	I I b
Don	h -2	1033F19	1423F29	1421F 2	1416F 0	1F11	I I b
Kr%&on	90-1						ql w
LesO	276-1	2F24	2F1	2F1	2F13	1F36	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	S I ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-76	Dw&umne&Nsme:J	8 9
RAen&psml Re:D :J	My 7. 30t	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2720-7 -14:19J76.J21	t s&s. Ae:Nsme:J	7 4c 5 C. FO

8srsme&er	Mswv	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	UnA&w
LesO	27 -1	2F16	2F76	2F11	2F11	2F04	I I b
LesO	279-1	2F21	2F12	2F10	2F1h	2F16	I I b
LAEAum	6-1				172		G
MsgnewAum	24-2	746F36	20hF77	1h7F37	144F23	1F02	I I b
Msngsnewe	hh-2	11 F20	124F9	119F62	127F24	0F03	I I b
MoP%bOenum	34-1	6F9h	6F03	6F99	6F 1	4F14	I I b
MoP%bOenum	3h-1	hF 0	6F76	hF9	hF93	2F97	I I b
MoP%bOenum	36-1	hF33	hF36	6F7h	6F77	7F 9	I I b
MoP%bOenum	3 -1	6F04	6F1h	hF37	6F10	0F61	I I b
MoP%bOenum	39-1	6F1	6F10	6F12	6F14	7F43	I I b
NeoO%mAum	1h7-1						ql w
NeoO%mAum	1h7-2						ql w
NAqkeP	67-2	1F19	1F71	1F7h	1F79	9F72	I I b
8EowI Eoruw	01-2	11F20	1hF94	11Fh9	12F99	13F30	I I b
8o&swwAum	03-2	2394F24	0770Fh0	23h9F91	2392F13	7F h	I I b
5EoOAum	170-1				176		G
5EoOAum	170-2				170		G
pqsnOAum	4h-1				176		G
pqsnOAum	4h-2				3		G
peRenAum	92-1	7F 4	7F3	7F66	7F 3	27F19	I I b
peRenAum	-2	7F71	hF02	4F27	0F19	99F22	I I b
peRenAum	9-2	2F79	-7F74	7F97	7F34	112F3h	I I b
pARqon	29-1	6201F4h	64 6F90	6h90F33	6407F 6	2F91	I I b
pARer	17 -1	7F71	7F71	7F71	7F71	2 F06	I I b
pARer	173-1	7F71	7F77	7F77	7F71	9 F6	I I b
poOAum	20-2	13433F 3	13644F 7	13922F32	136hhF97	7F92	I I b
p&ona&Aum	96-1	167F0	1h6F6h	167F7	1h3F70	1F07	I I b
p&ona&Aum	99-1	166F 0	166F11	16 F97	166F99	7Fh1	I I b
pulPur	04-1	1224hF h	12149F69	12499F 2	12234F09	1F42	I I b
i erbAum	1h3-1				173		G
i erbAum	1h3-2				177		G
i EsPAum	270-1	7F70	7F70	7F70	7F70	10F13	I I b
i EsPAum	27h-1	7F7h	7F70	7F70	7F74	01F91	I I b
i An	119-1	7Fh0	7Fh0	7Fh1	7Fh2	1F3h	I I b
i A&snAum	4 -1	4hF02	4hFh6	44F 0	4hF27	7F34	I I b
UrsnAum	209-1	2F77	2F76	2F72	2F70	1F00	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	S I ers&br:J	aswl sP
Lsb:psml Re:D :J	S0232-76	Dw&umne&Nsme:J	8 9
RFen&psml Re:D :J	My 7. 30t	t Ro&on:. sq&br:J	1
t s&e:T:i Ane:c qduAeO.J	2720-7 -14:19J76.J21	t s&s. Re:Nsme:J	7 4c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1-2	1Fh6	1F66	1F 7	1F64	4F13	l l b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	93-1				179		G
Y&&Aum	93-2				33		G
ZAnq	66-2	h2Fh4	h2F 1	h7F37	h2F7h	1F32	l l b
ZAqonAum	37-1	7F36	1F71	7F93	7F3h	6F12	l l b
ZAqonAum	31-1	7F33	7F32	7F96	7F32	F01	l l b

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Inst Id :P8

LB:umber Sa	LB126466	OIr Sw&aSa	swl Pw8
Lwe:pwbl &:D:a	O3252-0XL7X	DR &mbRr&uwbr:a	NJ
v &R&pwbl &:D:a	H90. 53L	t &m&R. wq&aSa	X
t w&:T:i Ar:cqdmS o:a	2023-0 -14:1Ja05a20	t w&v. A:uwbr:a	0 XcEF. Ub

NwSwbr&S	Hwl	vnREr l 1	vnREr l 2	vnREr l 3	cgMUvnRqU	vnRqEpt	CR&
c&mbARAmb	2 -2	231U50	156U46	15JU42	20JU53	5UX4	l l e
cR&bnRy	121-1	0U02	0U02	0U02	0U02	22U0	l l e
cSrRAq	X-2	0U22	0U20	0U13	0U1J	2XU4J	l l e
BwSAmb	13X-1	10UX	11U62	13U5X	12U11	13U66	l l e
BwSAmb	13 -1	11U40	12U12	14U1	12U4	13U0	l l e
BrSy&AAmb	5-1	0U0J	0U0J	0U12	0U05	2 U33	l l e
BAAbm&a	205-1				56		%
BAAbm&a	205-2				5X		%
BSmbARr	J1-1						q l l
vwobAmb	10J-1	0U24	0U11	0U22	0U15	3XU3	l l e
vwobAmb	106-1	-0U6	-0U6X	-4U4J	-1U56		l l e
vwobAmb	111-1	-0U06	-0U04	-0U3X	-0U1X		l l e
vw&qAmb	43-1	X430U16	X522U03	6 6 U41	6035UJ	11U20	l l e
vw&qAmb	44-1	X6X1U	62J6U16	243U00	6353U64	12UX3	l l e
vwSenR	12-1						q l l
vwSenR	12-2						q l l
vh&nSARr	3X-1						q l l
vh&nSARr	3X-2						q l l
vhSmbAmb	X2-2	0U35	0U25	0U2X	0U31	22U54	l l e
vnew&&	X5-2	0U12	0U13	0U14	0U13	6U4	l l e
vnIlrS	63-2	0UX	0U42	0U43	0U4	1JU3J	l l e
t ylI SnlAmb	1X6-1						q l l
t ylI SnlAmb	1X6-2						q l l
FSeAmb	164-1						q l l
FSeAmb	164-2						q l l
Gwon&RAmb	160-1						q l l
Gwon&RAmb	160-2						q l l
9n&bAmb	16X-1				100		%
9n&bAmb	16X-2				5J		%
DRoAmb	11X-1				101		%
DRoAmb	11X-2				5X		%
DSmR	X4-2	326UX2	2J3U1	2J0UJ	25 U04	JU61	l l e
DSmR	X6-2	315U21	2J0UJ	2 4UJ1	251U60	JU26	l l e
DSmR	X -2	331U6	301U0	2J2U5	30XU21	JU11	l l e
KSyl &aR	J3-1						q l l
Lrwo	206-1	0U42	0U4X	0UX	0U4J	16U65	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er Sa	LB126466	OI r Sw&aSa	swl Pw8
Lwe:pwb l 8 :D :a	O3252-0XL7X	DR 8mb Rr &uwb r :a	NJ
v 8R&pwb l 8 :D :a	H9 0. 53L	t Am8R. wq&aSa	X
t w&:T:i Ab r :cqdmS o:a	2023-0 -14:1Ja05a20	t w&v. A :uwb r :a	0 XcEF. Ub

NwSwb r & S	Hwl l	v nREr l 1	v nREr l 2	v nREr l 3	cgMUv nRqU	v nRqEpt	CRA&
Lr wo	20 -1	0U43	0U46	0UX0	0U46	U0X	l l e
Lr wo	20J-1	0U42	0U43	0UX4	0U4	14U10	l l e
LA&mAb	6-1				5		%
HwVRr l Ab	24-2	1 02U66	145 UJ	143XU6J	1X4XU3	5U04	l l e
HwRMwRr l r	XX-2	2 U35	24UJ	23UJ2	2XU33	U30	l l e
H n8yeor Rmb	54-1	1U3J	1U43	1U62	1U4	JUX0	l l e
H n8yeor Rmb	5X-1	1U22	1U33	1U4	1U34	5U4J	l l e
H n8yeor Rmb	56-1	1U2X	1U2	1U62	1U3J	1XU01	l l e
H n8yeor Rmb	5 -1	1U1	1U30	1U6	1U41	21UJJ	l l e
H n8yeor Rmb	5J-1	1U05	1U25	1U63	1U34	20U34	l l e
u r noyb Ab	1X0-1						ql l
u r noyb Ab	1X0-2						ql l
u Aqkr 8	60-2	0U30	0U21	0U23	0U2X	1JUX3	l l e
NhnI l hnSm	31-2	-31UJ2	-2JU33	-14U41	-24UJX		l l e
Nn&wl l Ab	35-2	656U43	604U41	60XUX3	63XU46	JU31	l l e
EhnoAb	103-1				55		%
EhnoAb	103-2				5J		%
pqwRoAb	4X-1				100		%
pqwRoAb	4X-2				53		%
pr 8 RAb	J2-1	-0U34	-0U03	-0U13	-0U1		l l e
pr 8 RAb	-2	-1U0X	0U01	1U0J	0U01	J24JU35	l l e
pr 8 RAb	J-2	-0U05	0U4X	0U3	0U36	11XUXJ	l l e
pA&qnR	2J-1	1216U11	134XU3J	1X66U40	13 XU56	12UJ	l l e
pA&gr S	10 -1	0U00	0U00	0U00	0U00	X5U22	l l e
pA&gr S	105-1	0U00	0U00	0U00	0U00	12J5U31	l l e
pnoAb	23-2	44J U13	35 6UX6	3J2JU40	405 U36	JU43	l l e
pA&mR&Ab	J6-1	30U53	33U01	40U3	34UJ5	14UJ0	l l e
pA&mR&Ab	JJ-1	31U35	33U26	40U3X	3XU00	13U45	l l e
pm&mS	34-1	126 U44	23 0UX0	4622U14	2 X3U36	62U10	l l e
i r SeAb	1X5-1				100		%
i r SeAb	1X5-2				5		%
i hwBAb	203-1	0U00	0U01	0U02	0U01	131UX0	l l e
i hwBAb	20X-1	0U02	0U02	0U03	0U02	1 U54	l l e
i AR	11J-1	0U04	0U11	0U1X	0U10	X U22	l l e
i A&wRAb	4 -1	JUJ2	5U6J	11U20	5U50	12U15	l l e
CSwRAb	23J-1	0U3J	0U43	0UX1	0U44	14U14	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber Sa	LB126466	OIr Sw&Sa	swl Pw8
Lwe:pwbl &:D :a	O3252-0XL7X	DR &mbRr&uwbr:a	NJ
v &R&pwbl &:D :a	H90. 53L	t &m&R. wq&Sa	X
t w&:T:i &r:cqdm&o:a	2023-0 -14:1Ja05a20	t w&v. &:uwbr:a	0 XcEF. Ub

NwSwbr&S	Hwl	vnRErl 1	vnRErl 2	vnRErl 3	cgMUvnRqU	vnRqEpt	CR&
VwRwo&mb	X1-2	0U3	0U25	0U3	0U34	13UJ5	l l e
Y&&Se&mb	1 2-1						ql l
Y&&Se&mb	1 2-2						ql l
Y&&Se&mb	1 6-1						ql l
Y&&Se&mb	1 6-2						ql l
Y&&S&mb	J5-1				100		%
Y&&S&mb	J5-2				5X		%
Z&Rq	66-2	12U63	11U0J	10U15	11U30	10U5X	l l e
Z&SqnR&mb	50-1	0U1X	0U1J	0U15	0U1	10U51	l l e
Z&SqnR&mb	51-1	0U1	0U12	0U15	0U16	22U15	l l e

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Inst Id :P8

LB:Number:J	LB126466	S I ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-7	Dw&umne&Nsme:J	8 9
RAen&psml Re:D :J	My 7. 30p	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2720-7 -14:19J12.J21	t s&s. Ae:Nsme:J	7 6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	UnA&w
cRmAAm	2 -2	2362F34	0767F67	077 F0h	0717F07	1F62	I I b
cn&mon%	121-1	174F7h	177F4	171F7	171F96	1F99	I I b
crwenAq	h-2	47F21	41F14	41F17	47F92	1F23	I I b
BsrAm	10h-1	24 3Fh	2043F2h	2072F 0	20 F19	0F96	I I b
BsrAm	10 -1	24 2F16	206 F11	2472F00	2410F9	2F22	I I b
Ber%BAm	3-1	h4F23	h4F07	hhFh9	h4F 2	1F0h	I I b
BAmu&E	273-1				33		G
BAmu&E	273-2				177		G
BromAe	91-1						ql w
RsOmAm	179-1	44F79	44F6h	4hF97	44F94	1F3h	I I b
RsOmAm	176-1	44F 3	4hF90	44F4h	4hF70	1F67	I I b
RsOmAm	111-1	h4F3h	h0F h	h1F91	h0Fh7	2F36	I I b
RsRqAm	40-1	072 2F 7	077h4Fh	23h0 Fh3	233h4F3h	1F26	I I b
RsRqAm	44-1	01264F47	07190Fh1	07917F37	07 h2F34	1F 6	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REPrAe	0h-1						ql w
REPrAe	0h-2						ql w
REromAm	h2-2	276F1	217F93	27 F72	279F70	1F21	I I b
RobsR&	h3-2	h4 F 4	h92F 0	h69F60	h66F0	0F11	I I b
RoI I er	60-2	2h F90	26hFh1	261F64	261F66	1F4	I I b
t %W rowAm	1h6-1						ql w
t %W rowAm	1h6-2						ql w
CrbAm	164-1						ql w
CrbAm	164-2						ql w
HsOoPhAm	167-1						ql w
HsOoPhAm	167-2						ql w
y oPmAm	16h-1				170		G
y oPmAm	16h-2				177		G
DrOAm	11h-1				170		G
DrOAm	11h-2				39		G
Don	h4-2	2h49F 4	2617F04	2hh6Fh1	2h 1F96	1F07	I I b
Don	h6-2	2h7hF07	2h73F62	2h01F4	2h1hF4	7Fh6	I I b
Don	h -2	206hFh9	2470F14	20 2F40	2097F09	7F94	I I b
Kr%&on	90-1						ql w
LesO	276-1	27F44	13F3h	27F03	27F26	1F01	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	S I ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-7	Dw&umne&Nsme:J	8 9
RAen&psml Re:D :J	My 7. 30p	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2720-7 -14:19J12.21	t s&s. Ae:Nsme:J	7 6c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	UnA&w
LesO	27 -1	27F3	27F7	27Fh1	27Fh2	2F13	I I b
LesO	279-1	27F60	27F2h	27F 2	27Fh4	1F22	I I b
LAEAum	6-1				177		G
MsgnewAum	24-2	207F44	h11F19	241F 9	02 F97	2F1	I I b
Msngsnewe	hh-2	613F39	606F33	602F7h	623F6	1F03	I I b
MoP%bOenum	34-1	6F 1	F76	6F91	6F96	2F63	I I b
MoP%bOenum	3h-1	6F0	6F03	6F04	6F0	7F40	I I b
MoP%bOenum	36-1	6F63	6F29	6F24	6F47	0F96	I I b
MoP%bOenum	3 -1	6F42	6F41	F70	6F62	hF0	I I b
MoP%bOenum	39-1	6Fh	6F4	6F04	6F46	1F 4	I I b
NeoO%mAum	1h7-1						ql w
NeoO%mAum	1h7-2						ql w
NAqkeP	67-2	h4hF09	h69F19	hh F71	hh6F96	2F7h	I I b
8EowI Eoruw	01-2	-11F 6	12F27	-0F9	-1F14		I I b
8o&swwAum	03-2	2327F32	07h F03	23 7F9h	2390F7h	2F01	I I b
5EoOAum	170-1				39		G
5EoOAum	170-2				172		G
pqsnOAum	4h-1				172		G
pqsnOAum	4h-2				39		G
peRenAum	92-1	17hF7	174F9	172F02	174F73	1F4	I I b
peRenAum	-2	96F20	3 F07	31F26	31F67	6F7h	I I b
peRenAum	9-2	33F39	171F93	172F22	171F06	1F13	I I b
pAAqon	29-1	6 91F 2	6697F19	649hF41	6643F17	2F26	I I b
pARer	17 -1	4hF63	44F44	40F42	44Fh2	2Fh6	I I b
pARer	173-1	46F77	4hF76	4hF2h	4hF44	1F17	I I b
poOAum	20-2	13634F93	27161F1	27766F 4	133 4F2	1F20	I I b
p&onA&um	96-1	1 hF60	1 hF07	1 6F9h	1 hF30	7F4	I I b
p&onA&um	99-1	194F67	199F49	192F91	19hF23	1Fh6	I I b
pufFur	04-1	109 3F04	101h4Fh7	12h33Fh2	10211F12	4F96	I I b
i erbAum	1h3-1				172		G
i erbAum	1h3-2				171		G
i EsFAum	270-1	49F0	46F44	4 F72	4 F29	2F73	I I b
i EsFAum	27h-1	49Fhh	4 F41	4 F 6	4 F31	1F22	I I b
i An	119-1	7F41	7F47	7F47	7F41	2F79	I I b
i A&snAum	4 -1	40F02	40F49	42F24	40F71	1Fh	I I b
UrsnAum	209-1	2F24	2F22	2F16	2F21	1F37	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	SI ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-7	Dw&umne&Nsme:J	8 9
RFen&psml Re:D :J	My 7. 30p	t Ro&on:. sq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2720-7 -14:19J12.21	t s&s. Re:Nsme:J	7 6c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&w
VsnsOAum	h1-2	h0 F76	hhhF70	h40F33	h4hF06	1F66	l l b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	93-1				170		G
Y&&Aum	93-2				33		G
ZAnq	66-2	h60F9	h 1F0h	h69F19	h6 F97	7F66	l l b
ZAqonAum	37-1	7F92	7F 3	7F96	7F92	4F43	l l b
ZAqonAum	31-1	7F97	7F93	7F96	7F9h	hFn1	l l b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	SI ers&or:J	aswl sP
Lsb:psmI Re:D :J	S0232-73	Dw&umne&Nsme:J	8 9
RFen&psmI Re:D :J	My 7. 3h	t AR&on:. sq&or:J	1
t s&:T:i Ane:cqduAeO.J	2720-7 -14:19.J21J14	t s&s. Re:Nsme:J	7 9c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAm	2 -2	7Fh7	7F04	7F20	7F06	09F00	I I b
cn&mon%	121-1	7F77	7F77	7F77	7F77	192F04	I I b
crwenAq	h-2	-7F71	-7F71	-7F72	-7F71		I I b
BsrAm	10h-1	7F77	7F76	7F70	7F70	32F 9	I I b
BsrAm	10 -1	7F77	-7F72	7F74	7F71	0h3Fh9	I I b
Ber%RAm	3-1	7F71	7F71	7F71	7F71	4F10	I I b
BAmu&E	273-1				172		G
BAmu&E	273-2				172		G
BromAne	91-1						ql w
RsOmAm	179-1	7F74	-7F73	-7F12	-7F76		I I b
RsOmAm	176-1	-2F 1	-2F31	-2F67	-2F 4		I I b
RsOmAm	111-1	-7F21	-7F22	-7F19	-7F27		I I b
RsRqAm	40-1	-7F63	1F17	1F1	7Fh2	271F14	I I b
RsRqAm	44-1	11F41	14F10	12F2	12F67	11F72	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	0h-1						ql w
REFrAne	0h-2						ql w
REromAm	h2-2	7F72	7F74	-7F71	7F72	149F29	I I b
RobsR&	h3-2	7F77	-7F71	-7F71	-7F71		I I b
RoI I er	60-2	7F17	7F7h	7F7h	7F7	41F	I I b
t %wI rowAm	1h6-1						ql w
t %wI rowAm	1h6-2						ql w
CrbAm	164-1						ql w
CrbAm	164-2						ql w
HsOoRAm	167-1						ql w
HsOoRAm	167-2						ql w
y oRmAm	16h-1				170		G
y oRmAm	16h-2				172		G
DrOAm	11h-1				176		G
DrOAm	11h-2				171		G
Don	h4-2	7F24	1F14	1F67	7F33	63F31	I I b
Don	h6-2	7F7	7F77	-7F21	-7F7h		I I b
Don	h -2	7F7h	7F13	7F47	7F21	9hFh6	I I b
Kr%I &on	90-1						ql w
LesO	276-1	-7F71	-7F72	-7F71	-7F71		I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	S I ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-73	Dw&umne&Nsme:J	8 9
RAen&psml Re:D :J	My 7. 3h	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2720-7 -14:19.J21J14	t s&s. Ae:Nsme:J	7 9c 5 C. FO

8srsme&er	Mswv	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	UnA&w
LesO	27 -1	7F72	7F77	7F71	7F71	112F92	I I b
LesO	279-1	-7F71	-7F72	-7F71	-7F71		I I b
LA&EAum	6-1				17h		G
MsgnewAum	24-2	-7F22	-7F06	-7F61	-7F47		I I b
Msngsnewe	hh-2	-7F72	7F70	7F77	7F77	11h2F03	I I b
MoP%bOenum	34-1	7F71	7F71	7F77	7F71	90Fh0	I I b
MoP%bOenum	3h-1	7F77	-7F71	7F77	-7F71		I I b
MoP%bOenum	36-1	7F77	7F77	-7F71	7F77		I I b
MoP%bOenum	3 -1	7F71	7F77	7F71	7F77	6hF27	I I b
MoP%bOenum	39-1	-7F71	-7F71	7F77	-7F71		I I b
NeoO%mAum	1h7-1						ql w
NeoO%mAum	1h7-2						ql w
NAqkeP	67-2	7F77	-7F72	7F77	-7F71		I I b
8EowI Eoruw	01-2	-47F79	-02F3h	-49F97	-47F61		I I b
8o&swwAum	03-2	01F16	22Fh0	27F70	24Fh	20F	I I b
5EoOAum	170-1				176		G
5EoOAum	170-2				174		G
pqsnOAum	4h-1				17h		G
pqsnOAum	4h-2				177		G
peRenAum	92-1	7F7h	-7Fhh	-7F40	-7F01		I I b
peRenAum	-2	-7F71	-1F7h	-1F7h	-7F 1		I I b
peRenAum	9-2	-7F7	-7F92	1F72	7F74	27 0F0h	I I b
pARqon	29-1	1F27	1Fh1	7F34	1F22	20F03	I I b
pARer	17 -1	7F71	7F71	7F72	7F71	40F40	I I b
pARer	173-1	7F71	7F71	7F77	7F71	0hFh3	I I b
poOAum	20-2	24F00	21F3	27F 6	22F0h	9F12	I I b
p&ona&Aum	96-1	7F76	7F70	7F7	7F7h	46F1h	I I b
p&ona&Aum	99-1	7F71	7F71	7F72	7F72	4 F27	I I b
pufFur	04-1	-44 F99	-167F60	-267F1h	-293Fhh		I I b
i erbAum	1h3-1				170		G
i erbAum	1h3-2				172		G
i EsRAum	270-1	7F72	7F77	7F77	7F71	9Fh1	I I b
i EsRAum	27h-1	7F72	7F72	7F70	7F70	1 F72	I I b
i A	119-1	-7F74	-7F7h	-7F74	-7F74		I I b
i A&snAum	4 -1	7F74	7F72	7F76	7F74	h0Fh6	I I b
UrsnAum	209-1	7F77	7F77	7F77	7F77		I I b

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Inst Id :P8

LB:Number:J	LB126466	S I ers&or:J	aswl sP
Lsb:psml Re:D :J	S0232-73	Dw&umne&Nsme:J	8 9
RFen&psml Re:D :J	My 7. 3h	t A&on:. sq&or:J	1
t s&e:T:i Ane:c qduAeO.J	2720-7 -14:19J21J14	t s&s. Ae:Nsme:J	7 9c 5 C. FO

8srsme&er	Msw	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1-2	-7F71	7F77	7F77	7F77		I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	93-1				173		G
Y&&Aum	93-2				170		G
ZAnq	66-2	7F71	7F70	7F17	7F7h	110F 4	I I b
ZAqonAum	37-1	7F77	7F77	7F77	7F77		I I b
ZAqonAum	31-1	7F77	7F71	7F77	7F77		I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9J	LB126466	SDr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	S0232-7	t5l Tpmb 5r T9u wb r 9J	N
v 8r 5T9 wb D8 9l&9J9	y h 7F34	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2720-7: -149l3J71Ja6	&wTwFd8 9u wb r 9J	7: 3qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgM9v n5dU	v n5dCl &	R5dT
q8mb c5cmb	2: -2	013la7	011U3:	073U71	010la7	1U0	DDe
q5Tb n5%	121-1	7U73	7U7	7U73	7U73	:U7:	DDe
qpl r 5cl	: a-2	7U0	7U	7U63	7U:	3U23	DDe
Bwpcmb	10a-1	aal03	a4la6	a0U4	a4U67	1U42	DDe
Bwpcmb	10: -1	aal62	a6U61	a6U0a	a6U13	7U31	DDe
Br p%8cmb	3-1	7U06	7U00	7U01	7U00	:U44	DDe
Bdl b mTE	273-1				3		G
Bdl b mTE	273-2				3:		G
Bpmb c5r	1-1						dDl
v wob cmb	17 -1	7U77	7U16	7la:	7U24	127U22	DDe
v wob cmb	176-1	-2la2	-2U66	-2U6	-2U6a		DDe
v wob cmb	111-1	-7U11	-7U14	-7U14	-7U10		DDe
v w8lcmb	40-1	01304U4	0722aU16	076 2U13	0734: U03	2U6	DDe
v w8lcmb	44-1	001a6U71	0172aU24	07: 40U43	01641la	4U1:	DDe
v wpen5	12-1						dDl
v wpen5	12-2						dDl
v E8hpc5r	0a-1						dDl
v E8hpc5r	0a-2						dDl
v Epmb cmb	a2-2	7la6	7la7	7U4	7la1	:U3	DDe
v new8T	a3-2	7la6	7U67	7laa	7la:	4U67	DDe
v nDDr p	60-2	1U27	1U07	1U27	1U20	4U44	DDe
&%Dpnl cmb	1a6-1						dDl
&%Dpnl cmb	1a6-2						dDl
. pecmb	164-1						dDl
. pecmb	164-2						dDl
Hwon85cmb	167-1						dDl
Hwon85cmb	167-2						dDl
h n8b cmb	16a-1				177		G
h n8b cmb	16a-2				171		G
t5ocmb	11a-1				172		G
t5ocmb	11a-2				3:		G
tpn5	a4-2	610U72	610U4	62aU12	61: U23	1U17	DDe
tpn5	a6-2	676U03	676U06	67aU0	676U13	7U7a	DDe
tpn5	a: -2	647U6	661U36	602la0	64aU7	2U0a	DDe
Kp%DTn5	0-1						dDl
Lr wo	276-1	1U4	1U0	1U1	1U0	1U70	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9J	LB126466	SDr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	S0232-7	t5l Tpmb 5r T9u wb r 9J	N
v 8r 5T9 wb D8 9l&9J9	y h 7F34	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2720-7: -1491 3J71Ja6	&wTwFd8 9u wb r 9J	7: 3qC. Flb

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgM9v n5dU	v n5dCl &	R5dT
Lr wo	27: -1	1U6a	1Ua4	1U67	1U67	0U24	DDe
Lr wo	27 -1	1U4	1U6a	1U7	1U63	2U66	DDe
LdTEcmb	6-1				170		G
y wlV5r l cmb	24-2	114U62	113Ua1	16aU63	100U2:	7U0a	DDe
y w5Mw5r l r	aa-2	11: Ua	11: U2	116U2:	11: U22	7U1	DDe
y n8%eor 5mb	34-1	aU4a	aU11	aU1	aU24	0U0:	DDe
y n8%eor 5mb	3a-1	aU2a	aU70	aU27	aU16	2U21	DDe
y n8%eor 5mb	36-1	aU23	aU7	aU13	aU13	2U77	DDe
y n8%eor 5mb	3: -1	aU04	aU2a	aU11	aU20	2U13	DDe
y n8%eor 5mb	3 -1	aU2:	aU12	aU2	aU22	1U63	DDe
u r no%b cmb	1a7-1						dDl
u r no%b cmb	1a7-2						dDl
u cdkr 8	67-2	7U63	7U66	7U7	7U1	17U06	DDe
NEnl DEnpml	01-2	1: U34	-: U26	-6U13	1Ua7	3a1U44	DDe
NnTwl l cmb	03-2	2: : U44	2: 1aU:	2: 46U07	2: 43U:	1U01	DDe
CEnocmb	170-1				172		G
CEnocmb	170-2				171		G
l dw5ocmb	4a-1				174		G
l dw5ocmb	4a-2				3		G
l r 8 5cmb	2-1	7U40	7U44	7Ua6	7U4	1aU00	DDe
l r 8 5cmb	: : -2	1U73	2U1a	7U72	1U73	3 U73	DDe
l r 8 5cmb	: -2	1U2	1U20	1U7a	1U06	23U44	DDe
l 8dn5	2 -1	a32: Ua4	aa7: U66	aa2aU43	a6a0Ua6	4U27	DDe
l 8gr p	17: -1	7U71	7U77	7U71	7U71	a6U26	DDe
l 8gr p	173-1	-7U71	7U77	7U77	7U77		DDe
l nocmb	20-2	211: 6U0:	212 U7	21a7 U77	21024U1a	7U3	DDe
l Tpn5Tcmb	6-1	137U3a	1 7U11	1 7U46	1 0U4	0U0a	DDe
l Tpn5Tcmb	-1	271U6:	132U01	134U4	136U1a	2Ua7	DDe
l m8mp	04-1	1 a: 4U31	160: Ua2	16: 34U:	1: 243U40	6U6	DDe
Ar pecmb	1a3-1				177		G
Ar pecmb	1a3-2				177		G
AEw8mb	270-1	7U70	7U72	7U71	7U72	40U2	DDe
AEw8mb	27a-1	7U72	7U72	7U72	7U72	10U20	DDe
Ad5	11 -1	7U00	7U0:	7U07	7U00	3U33	DDe
AdTw5cmb	4: -1	14Ua2	14U70	10U6a	14U7:	0U73	DDe
Rpw5cmb	20 -1	2U1	2U10	2U21	2U1:	1Ua	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9J	LB126466	SDr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	S0232-7	t5l Tpmb 5r T9u wb r 9J	N
v 8r 5T9 wb D8 9l&9J9	y h 7F34	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2720-7: -149l3J71Ja6	&wTwFd8 9u wb r 9J	7: 3qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D0	qgM9v n5dU	v n5dCl &	R5dT
Vw5wocmb	a1-2	7U1	7U2	7U1	7Ua	6U6:	DDe
YTTr pecmb	1: 2-1						dDl
YTTr pecmb	1: 2-2						dDl
YTTr pecmb	1: 6-1						dDl
YTTr pecmb	1: 6-2						dDl
YTTpcmb	3-1				17a		G
YTTpcmb	3-2				3		G
Zc5d	66-2	4 U7	a7U17	4 U13	43U70	1U33	DDe
Zqcdn5cmb	37-1	7Ua	7Ua0	7Ua	7Ua6	aU16	DDe
Zqcdn5cmb	31-1	7Ua3	7Ua3	7U60	7U67	0U3a	DDe

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Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0232-17	Dw&umne&Nsme:9	8J
RFen&psmI Re:D :9	My 7. J3	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2720-7 -14:139 7J9 04	t s&s. Ae:Nsme:9	7J1c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF.RonqF	Ronq5pt	Un&w
cRmAAm	2 -2	2hF63	22FJ6	22Fh4	20F 7	F01	I I b
cn&mon%	121-1	7F71	7F7h	7F77	7F72	104F12	I I b
crwenAq	h-2	7F71	7F72	-7F72	7F71	473F07	I I b
BsrAm	10h-1	7F 1	1F71	7FJ	7FJ6	1 F37	I I b
BsrAm	10 -1	7F 4	1F7h	7F6h	7FJ1	2hFJh	I I b
Ber%BAm	3-1	7F72	7F7h	7F71	7F70	hF0h	I I b
BAmu&E	273-1				33		G
BAmu&E	273-2				3J		G
BromAne	J1-1						ql w
RsOmAm	17J-1	7F42	7F47	7F12	7F01	h0F3J	I I b
RsOmAm	176-1	-4F1h	-1F42	-0F17	-2FJ3		I I b
RsOmAm	111-1	-7F02	-7F7	-7F20	-7F21		I I b
RsRqAm	40-1	1J F23	217F	1JhF1h	134F41	F01	I I b
RsRqAm	44-1	13 F31	222F62	130F 6	274F 6	F62	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	0h-1						ql w
REFrAne	0h-2						ql w
REromAm	h2-2	2F63	2F 0	2FJ1	2F 4	2F04	I I b
RobsR&	h3-2	7F17	7F7	7F7J	7F7J	13F6J	I I b
RoI I er	60-2	7FJ1	7FJ0	7FJ4	7FJ0	2F7J	I I b
t %wI rowAm	1h6-1						ql w
t %wI rowAm	1h6-2						ql w
CrbAm	164-1						ql w
CrbAm	164-2						ql w
HsOoFAm	167-1						ql w
HsOoFAm	167-2						ql w
y oFmAm	16h-1				171		G
y oFmAm	16h-2				33		G
DrOAm	11h-1				172		G
DrOAm	11h-2				36		G
Don	h4-2	4hFhJ	42F34	41F01	40F2J	4F3J	I I b
Don	h6-2	03F4	0JF6h	0JF43	0JFJ	1F06	I I b
Don	h -2	42F17	41F20	41F7	41F4	1F00	I I b
Kr%&on	J0-1						ql w
LesO	276-1	7F0h	7F4J	7F07	7F0J	24F76	I I b

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Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0232-17	Dw&umne&Nsme:9	8J
RAen&psmI Re:D :9	My 7. J3	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139 7J9 04	t s&s. Ae:Nsme:9	7J1c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
LesO	27 -1	7F04	7F4	7F06	7F03	1JF76	I I b
LesO	27J-1	7F0h	7F4	7F01	7F0J	21F 1	I I b
LA&EAum	6-1				177		G
MsgnewAum	24-2	27Fh0	1JF16	22F03	27F06	17F41	I I b
Msngsnewe	hh-2	2FJ6	2FJ4	2F30	2FJJ	1Fh4	I I b
MoP%bOenum	34-1	7F10	7F06	7F1h	7F21	hJF04	I I b
MoP%bOenum	3h-1	7F12	7F0	7F7	7F13	JhF63	I I b
MoP%bOenum	36-1	7F1J	7F41	7F7	7F22	3F46	I I b
MoP%bOenum	3 -1	7F24	7Fh1	7F17	7F2J	1FJ0	I I b
MoP%bOenum	3J-1	7F10	7F44	7F76	7F21	36F74	I I b
NeoO%mAum	1h7-1						ql w
NeoO%mAum	1h7-2						ql w
NAqkeP	67-2	0F2h	0F42	0F41	0F06	2F37	I I b
8EowI Eoruw	01-2	-46FJ	-10F23	-24FJ	-2JF04		I I b
8o&swwAum	03-2	h F67	h2FJh	h3F1J	h6Fh4	hFJ0	I I b
5EoOAum	170-1				172		G
5EoOAum	170-2				33		G
pqsnOAum	4h-1				170		G
pqsnOAum	4h-2				36		G
pe?enAum	J2-1	-7F3J	-7F7h	-7F42	-7F4J		I I b
pe?enAum	-2	-1F7h	-1F7h	-1F7h	-1F7h		I I b
pe?enAum	J-2	-7FJ1	7F4	-7F47	-7F2h		I I b
pAqon	2J-1	06F3	03F61	47F2J	0JF3h	4F43	I I b
pA?er	17 -1	-7F71	7F71	7F77	7F77		I I b
pA?er	173-1	7F77	7F71	7F77	7F77	464F34	I I b
poOAum	20-2	3F10	F22	J2F 1	3F63	0F43	I I b
p&on&Aum	J6-1	7FhJ	1F1h	7F44	7F 2	h1FJ1	I I b
p&on&Aum	JJ-1	7F64	1F00	7F43	7FJ2	h4F3h	I I b
pu?ur	04-1	-210F01	-26hF3h	22F37	-1h2F12		I I b
i erbAum	1h3-1				171		G
i erbAum	1h3-2				3		G
i EsPAum	270-1	7F71	7F74	7F77	7F71	1hhF 3	I I b
i EsPAum	27h-1	7F71	7F70	7F77	7F71	14hF64	I I b
i An	11J-1	7F0h	7F0	7F07	7F04	11F07	I I b
i A&snAum	4 -1	7F4J	7FJJ	7Fh4	7F60	04F74	I I b
UrsnAum	20J-1	7F77	7F74	7F77	7F72	12hF43	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I ers&or:9	aswl sP
Lsb:psml Re:D :9	S0232-17	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My 7. J3	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO:9	2720-7 -14:139 7J9 04	t s&s. Re:Nsme:9	7J1c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1-2	7F7	7F76	7F7	7F7	11F36	I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	J3-1				170		G
Y&&Aum	J3-2				3		G
ZAnq	66-2	16FJ3	16F J	16FJ3	16FJh	7F03	I I b
ZAqonAum	37-1	7F72	7F74	7F72	7F72	h6F7J	I I b
ZAqonAum	31-1	7F71	7F76	7F77	7F70	127F03	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0232-11	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. 37	t Au&on:. aq&or:9	1
t a&e:T:i Ame:cqduAeO.9	2720-7 -14:139119 06	t a&a. Ae:Name:9	782c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	2 -2	3F44	3F41	17F0h	3F 0	hFh0	I I b
c n&mon%	121-1	7F72	7F72	7F71	7F72	24F37	I I b
c rsenAq	h-2	7F74	7F72	7F70	7F70	0hF68	I I b
BarAum	10h-1	7F4	7F08	7F4h	7F40	11F77	I I b
BarAum	10 -1	7F0	7F00	7F0h	7F0h	hF83	I I b
Ber%lAum	3-1	7F71	7F71	7F71	7F71	12F32	I I b
BAsmu&E	273-1				177		G
BAsmu&E	273-2				3		G
BromAne	81-1						ql s
RaOmAum	178-1	7F06	7F11	7F11	7F27	2F 2	I I b
RaOmAum	176-1	7Fh3	-1F04	-1F34	-7F37		I I b
RaOmAum	111-1	7F76	-7F17	-7F1h	-7F7		I I b
RalqAum	40-1	28Fh4	2 F63	26F33	2 F 4	2F 3	I I b
RalqAum	44-1	03Fh6	0 F34	0hF33	0 F80	4F 2	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
REIorAne	0h-1						ql s
REIorAne	0h-2						ql s
REromAum	h2-2	7F10	7F1h	7F1h	7F14	3F40	I I b
Robal&	h3-2	7F77	7F71	-7F71	7F77	71Fhh	I I b
RoI I er	60-2	7F 1	7F60	7F h	7F 7	8F23	I I b
t %sI rosAum	1h6-1						ql s
t %sI rosAum	1h6-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
y olmAum	16h-1				171		G
y olmAum	16h-2				38		G
DnOAum	11h-1				17h		G
DnOAum	11h-2				36		G
Don	h4-2	14F02	11F62	14F1	10F0	11F06	I I b
Don	h6-2	10F01	12F26	10F74	12F8	4F22	I I b
Don	h -2	10F40	10F6h	12F 6	10F28	0Fh7	I I b
Kr%l &on	80-1						ql s
LeaO	276-1	7F16	7F16	7F16	7F16	2F70	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0232-11	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. 37	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2720-7 -14:139119 06	t a&a. Ae:Name:9	782c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	27 -1	7F20	7F14	7F1	7F18	24F71	I I b
LeaO	278-1	7F16	7F1h	7F18	7F16	F81	I I b
LA&EAum	6-1				33		G
MagnesAum	24-2	0F2	2F88	0F61	0F26	11F24	I I b
Manganese	hh-2	7F36	7F3h	7F84	7F32	F03	I I b
Mol%bOenum	34-1	7F72	7F7h	7F70	7F70	h4F1h	I I b
Mol%bOenum	3h-1	7F72	7F72	7F71	7F72	48F83	I I b
Mol%bOenum	36-1	7F77	7F71	7F77	7F77	2h3F41	I I b
Mol%bOenum	3 -1	7F72	7F71	7F72	7F71	21F77	I I b
Mol%bOenum	38-1	7F70	7F72	7F72	7F72	2 F24	I I b
NeoO%mAum	1h7-1						ql s
NeoO%mAum	1h7-2						ql s
NAqkel	67-2	1F74	1F77	1F70	1F72	2F1	I I b
PEosI Eorus	01-2	-01F2	-h1F40	-02F00	-08F04		I I b
Po&assAum	03-2	04F83	1 F80	0 F 3	07F1	0hF 4	I I b
5 EoOAum	170-1				170		G
5 EoOAum	170-2				33		G
pqanOAum	4h-1				170		G
pqanOAum	4h-2				3		G
pelenAum	82-1	-7F17	-7F8h	-7F47	-7F4h		I I b
pelenAum	-2	-1F7h	-1F7h	-1F7h	-1F7h		I I b
pelenAum	8-2	-7F71	7F76	7Fh8	7F21	1h1F81	I I b
pAAqon	28-1	13F67	21F24	21F3h	27F30	hF 6	I I b
pAver	17 -1	7F71	7F71	7F77	7F71	28F 3	I I b
pAver	173-1	7F77	7F77	-7F71	-7F71		I I b
poOAum	20-2	01Fh	00F18	07F14	01F60	4F87	I I b
p&ona&Aum	86-1	7F17	7F14	7F11	7F12	1hF06	I I b
p&ona&Aum	88-1	7F10	7F11	7F12	7F12	F74	I I b
pulfur	04-1	62F72	148F42	08F0	82F34	63F8h	I I b
i erbAum	1h3-1				172		G
i erbAum	1h3-2				38		G
i EallAum	270-1	7F77	7F77	7F71	7F77	h43F 3	I I b
i EallAum	27h-1	7F77	7F77	7F77	7F77		I I b
i An	118-1	7F13	7F27	7F18	7F13	hF02	I I b
i A&anAum	4 -1	7F27	7F04	7F06	7F07	23F81	I I b
UranAum	208-1	7F77	7F77	7F77	7F77	146F31	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0232-11	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. 37	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139119D6	t a&a. Ae:Name:9	782c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1-2	7F70	7F70	7F70	7F70	F7	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	83-1				174		G
Y&&Aum	83-2				3		G
ZAnq	66-2	14F22	12F81	10F02	10F4h	hF28	I I b
ZAqonAum	37-1	7F77	7F77	7F77	7F77	21F h	I I b
ZAqonAum	31-1	7F77	7F77	7F70	7F71	1 7F47	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	n Dr pwT5pJ	swl Pw8
Lwe:l wb D8 :t&:J	SS03-2	tCl Tpmb Cr T:u wb r :J	Na
S8r CTl wb D8 :t&:J	SS03-2	&8mT5C:FwdT5pJ	1
&wTr :i :Adb r :qdOmpr o:J	232-73 714:19J1aJ42	&wTwFd8 :u wb r :J	3a4SS0.o

NwpWb r Tr p	Mwl l	S5CRr D1	S5CRr D2	S5CRr D-	qvg.:S5Cd.	S5CdRI &	UCdT
q8mb cCmb	2 72	49y-1.44	4a9a4. 1	49y 3.62	49-62.26	3.66	DDe
qCTb 5Ch	12171	y3a.y2	y1-.63	y1y.y4	y12.yy	3. 1	DDe
qpl r Ccl	y72	499.-6	4ay.y6	4a6.49	493.4	1.y	DDe
Bwpcmb	1-y71	2y2a.2y	2y99.39	2yyy.-a	2y63.91	1.43	DDe
Bwpcmb	1- 71	2y26. 6	2yyy.29	2ya9.y1	2yy .19	1.2-	DDe
Br ph8cmb	971	492.9y	y3-. 3	4 .94	491.y-	2.6-	DDe
Bdl b mT%	23971				9		E
Bdl b mT%	23972				9-		E
Bp5b cCr	a171						dDl
Swob cmb	13a71	y3y.-	y24.61	y33.y6	y13.1a	2.49	DDe
Swob cmb	13671	y1y.a9	y23.6a	49 .a2	y11.46	2.-6	DDe
Swob cmb	11171	499.3-	y1y.41	y1-.64	y39.-6	1. 6	DDe
Sw8lcmb	4-71	24 9y3.6	249a16.3-	2y6334.49	2y12y .36	1.6a	DDe
Sw8lcmb	4471	2469y-.93	2466a2.94	249a6-.61	24 a--.4a	3. 1	DDe
Swpe5C	1271						dDl
Swpe5C	1272						dDl
S%5pCr	-y71						dDl
S%5pCr	-y72						dDl
S%p5b cmb	y272	4 3.21	462. 2	4 -. 2	46a.aa	1.23	DDe
S5ew8T	y972	49y.3y	4a2.2-	49y. y	491.31	1.yy	DDe
S5DDr p	6-72	4a6a.1y	4694.-6	4 1-.-4	4 ya.62	2.33	DDe
&hl Dp5l cmb	1y671						dDl
&hl Dp5l cmb	1y672						dDl
Gpecmb	16471						dDl
Gpecmb	16472						dDl
Hwo58Ccmb	16371						dDl
Hwo58Ccmb	16372						dDl
K58b cmb	16y71				136		E
K58b cmb	16y72				131		E
tCocmb	11y71				132		E
tCocmb	11y72				94		E
tp5C	y472	12y-32.23	12426a.yy	124a1a.6-	124 96.46	3.41	DDe
tp5C	y672	121-ya.64	123941.4	124a-3.y4	122- 6.aa	1. 4	DDe
tp5C	y 72	12293y.31	126a-a.32	12-912.ya	124yy1.a	1.64	DDe
k phDT5C	a-71						dDl
Lr wo	23671	24a3.61	2y -.2y	2y-a.46	2y-3.	1.ay	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	n Dr pwT5pJ	swl Pw8
Lwe:I wb D8 :t&:J	SS03-2	tCl Tpmb Cr Tuwb r :J	Na
S8r CTI wb D8 :t&:J	SS03-2	&8mT5C:FwdT5pJ	1
&wTr :i :Adb r :qdCmpr o:J	232-73 714:19J1aJ42	&wTwFd8 :uwb r :J	3a4SS0.o

NwpwbrTrp	Mwl	S5CRr D1	S5CRr D2	S5CRr D-	qvg.:S5Cd.	S5CdRI &	UCdT
Lr wo	23 71	2y--. 6	2y6 . 4	2y91.4	2y64.-2	1.1-	DDe
Lr wo	23a71	2y43.a-	2y y.a1	2y63.1y	2yya.9-	3.6a	DDe
LdP%mb	671				9		E
MwgCr l mb	2472	241469.-9	244221.-9	24y3 3.4y	24-ya .3a	3.	DDe
MwCgwCr l r	yy72	4 .-	4a13.94	4a- . 3	4a3a.6	3.6-	DDe
M58heor Cmb	9471	4aa2.63	y311.4a	y39y.4y	4996.y1	2.1y	DDe
M58heor Cmb	9y71	4a-y.3	4a91.a9	y312.9y	491-.-3	1.ay	DDe
M58heor Cmb	9671	4ay-.	49a1.1	y3y2.2-	4962.-9	2.3-	DDe
M58heor Cmb	9 71	491y.4-	y311.61	49 1.2	4966.13	3.9	DDe
M58heor Cmb	9a71	y33a. 9	49- .a6	y39 .a6	y314.a4	1.63	DDe
ur 5ohb cmb	1y371						dDl
ur 5ohb cmb	1y372						dDl
ucdfr 8	6372	4 . 1	4 2.a6	4 a.y6	4 6.-a	3.6y	DDe
N%5l D%5pml	-172	94 1.23	9296.a1	9--a.a4	9-6a.9y	3.9	DDe
N5TwI mb	-972	12232y.y1	121 31.3a	12196-. y	121a96. a	3.14	DDe
R%5ocmb	13-71				9a		E
R%5ocmb	13-72				9-		E
I dwCocmb	4y71				132		E
I dwCocmb	4y72				96		E
I r 8 Cmb	a271	4a2.a2	492.-3	4a .4-	4a .y1	3.9	DDe
I r 8 Cmb	72	4a3.63	4 3.29	4-a.1a	46-.32	4. a	DDe
I r 8 Cmb	a72	4 6.36	46y.34	494. y	4 a.62	-.14	DDe
I 8d5C	2a71	4y1.66	4y9.1a	46a.69	4y9.a4	1.a6	DDe
I 8vr p	13 71	4a .-2	49a.ya	4aa.19	491.-6	1.2a	DDe
I 8vr p	13971	493.2y	y13.1a	493.63	49 .31	2.-3	DDe
I 5ocmb	2-72	24-y39.y3	242-94.19	246y1 . 4	244143.4a	3.a	DDe
I Tp5CTcmb	a671	1229 .9y	126-6.1	12 63.-1	12y64.a1	1.93	DDe
I Tp5CTcmb	aa71	12412.62	126a4.9y	12411.2y	12y32.94	1.26	DDe
I m8Vmp	-471	99a .12	9a9y.a1	9941.a2	9941.y9	3.46	DDe
Ar pecmb	1y971				134		E
Ar pecmb	1y972				133		E
A%w8mb	23-71	y11.62	y16.6	y1-.a3	y14.3-	3.49	DDe
A%w8mb	23y71	y34.-4	y16.3a	y3a.41	y39.61	1.1	DDe
AdC	11a71	y14.6	y1a.66	499.y-	y13.9y	1.9a	DDe
AdTwCmb	4 71	4921.43	49 a.1-	y31-.9	49 1.1	3.94	DDe
UpwCmb	2-a71	y12.29	y3y.62	y12.42	y13.11	3. 6	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	n Dr pwT5pJ	swl Pw8
Lwe:I wb D8 :t&:J	SS03-2	tCl Tpmb Cr T:u wb r :J	Na
S8r CTI wb D8 :t&:J	SS03-2	&8mT5C:FwdT5pJ	1
&wTr :i :Adb r :qdOmpr o:J	232-73 714:19J1aJ42	&wTwFd8 :u wb r :J	3a4SS0.o

NwpwbrTrp	MwI	S5CRr D1	S5CRr D2	S5CRr D-	qvg.:S5Cd.	S5CdRI &	UCdT
0wOwocmb	y172	4a .3	4a-.43	493.a6	4a .11	3.	DDe
YTTr pecmb	1 271						dDI
YTTr pecmb	1 272						dDI
YTTr pecmb	1 671						dDI
YTTr pecmb	1 672						dDI
YTTpcmb	a971				13y		E
YTTpcmb	a972				9a		E
ZdCd	6672	462a.21	4y43.a6	4y24.ya	4y64.yy	1.22	DDe
Zqpd5Ccmb	9371	y32.9a	y31. 4	y11.32	y3y.2y	1.33	DDe
Zqpd5Ccmb	9171	4 6.-9	4 .91	4a9.91	4a1.43	1.y4	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB032	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB032	t Au&n5 Uaq&ar 9	1
t a&e T i Ame cqduAeO 9	2023-07-14 1: 9239 12	t a&aUAe Name 9	08CSSB. FO

Parame&er	y ass	Sn5v el 1	Sn5v el 2	Sn5v el 3	cgMFSn5qF	Sn5qv pt	R5A&s
clumA5Aum	27-2	1F. 7	1F. 8	1F61	1F8C	11F33	I I b
c5&Amn5h	121-1	0F11	0F11	0F1C	0F12	1CF73	I I b
crse5Aq	7C-2	0F02	0F01	0F02	0F02	C2F22	I I b
BarAum	13C-1	0F18	0F20	0F14	0F18	16F88	I I b
BarAum	137-1	0F1C	0F17	0F13	0F1C	11F. 7	I I b
BerhlIAum	: -1	0F06	0F04	0F04	0F0C	20F80	I I b
BAsmu&%	20: -1				102		E
BAsmu&%	20: -2				: 8		E
BrnmA5e	81-1						ql s
SaOmAum	108-1	0F23	0F3C	0F03	0F20	78F7C	I I b
SaOmAum	106-1	-1F4:	-1F. 1	-3F23	-2F21		I I b
SaOmAum	111-1	-0F07	-0F13	-0F20	-0F13		I I b
SalqAum	43-1	20FC3	1CF78	10F27	1CFC3	33F08	I I b
SalqAum	44-1	44F. 7	27F26	33FC6	3CF26	2CF46	I I b
Sarbn5	12-1						ql s
Sarbn5	12-2						ql s
S%nrA5e	3C-1						ql s
S%nrA5e	3C-2						ql s
S%nmAum	C2-2	0F00	0F00	0F11	0F04	174F17	I I b
Snbal&	C. -2	0F01	0F02	0F00	0F01	77F30	I I b
SnI I er	63-2	0F46	0F44	0F38	0F43	: F17	I I b
t hsI rnsAum	1C6-1						ql s
t hsI rnsAum	1C6-2						ql s
. rbAum	164-1						ql s
. rbAum	164-2						ql s
GaOnlA5Aum	160-1						ql s
GaOnlA5Aum	160-2						ql s
HnlmAum	16C-1				10C		E
HnlmAum	16C-2				: :		E
D5OAum	11C-1				106		E
D5OAum	11C-2				: 7		E
Dn5	C4-2	4F11	4F36	3F. 2	4F13	CF33	I I b
Dn5	C6-2	4F03	4F66	3F72	4F14	11F61	I I b
Dn5	C7-2	1F. 3	3F14	CF40	3F4:	C0F4C	I I b
Krhl &n5	83-1						ql s
LeaO	206-1	0F17	0F24	0F1:	0F20	16F16	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB032	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB032	t Au&n5 Uaq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9239 12	t a&aUAe Name 9	08CSSB. FO

Parame&er	y ass	Sn5v el 1	Sn5v el 2	Sn5v el 3	c gMFSn5qF	Sn5qv pt	R5A&s
LeaO	207-1	0F34	0F20	0F17	0F24	37F62	I I b
LeaO	208-1	0F21	0F1:	0F17	0F1:	: F70	I I b
LA%Aum	6-1				100		E
y aM5esAum	24-2	: F81	8F. 7	6F4:	8F42	20F46	I I b
y a5Ma5ese	CC-2	0F23	0F24	0F12	0F20	33F04	I I b
y nlhbOe5um	: 4-1	0FC7	0F37	0FC1	0F48	21F44	I I b
y nlhbOe5um	: C-1	0FC2	0F36	0F47	0F4C	18F36	I I b
y nlhbOe5um	: 6-1	0F48	0F47	0F44	0F46	4F. :	I I b
y nlhbOe5um	: 7-1	0F46	0F41	0F38	0F42	: F7C	I I b
y nlhbOe5um	: 8-1	0F66	0F44	0F38	0F4:	30F42	I I b
NenOhmAum	1C0-1						ql s
NenOhmAum	1C0-2						ql s
NAqkel	60-2	0F00	-0F02	0F00	0F00		I I b
P%nsI %nrus	31-2	-48F02	-36F40	-4: F70	-44F71		I I b
Pna&assAum	3: -2	46F0C	C2F41	C: F60	C2F6:	12F87	I I b
v %nOAum	103-1				104		E
v %nOAum	103-2				100		E
pqa5OAum	4C-1				104		E
pqa5OAum	4C-2				: 6		E
pele5Aum	82-1	-0F34	0F01	-0F0C	-0F12		I I b
pele5Aum	77-2	1F04	-1F0C	-1F0C	-0F3C		I I b
pele5Aum	78-2	-0F06	-0F2C	-0F07	-0F13		I I b
pAAqn5	28-1	1F80	-0F74	1F28	0F78	172F3:	I I b
pAger	107-1	0F03	0F03	0F04	0F03	10F72	I I b
pAger	10: -1	0F03	0F04	0F04	0F03	1: F02	I I b
pnOAum	23-2	8CFC4	80F31	: 2F02	8CF. 6	6F83	I I b
p&n5&Aum	86-1	2F. 6	0FC:	0F8C	1F47	88F7C	I I b
p&n5&Aum	88-1	0F76	1FC7	0F81	1F0C	43F24	I I b
pulfur	34-1	: 4F20	-306FC4	3C8F80	48F82	686F16	I I b
i erbAum	1C: -1				103		E
i erbAum	1C: -2				: :		E
i %allAum	203-1	0F11	0F11	0F10	0F11	4F0C	I I b
i %allAum	20C-1	0F11	0F11	0F10	0F11	CF64	I I b
i A5	118-1	0F02	0F01	0F08	0F03	107F00	I I b
i A&a5Aum	47-1	0F67	0F23	0F1:	0F36	74F03	I I b
Rra5Aum	238-1	0F02	0F02	0F02	0F02	: F27	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB032	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB032	t Au&n5 Uaq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9239 12	t a&aUAe Name 9	08CSSB. FO

Parame&er	y ass	Sn5v el 1	Sn5v el 2	Sn5v el 3	c gMFSn5qF	Sn5qv pt	R5A&s
Va5aOAum	C1-2	0F01	0F01	0F00	0F01	8CF34	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	8: -1				10C		E
Y&&Aum	8: -2				: 8		E
ZA5q	66-2	0F1:	0F2:	0FC1	0F33	C0F11	I I b
ZAqn5Aum	: 0-1	0F04	0F03	0F04	0F03	18F: 7	I I b
ZAqn5Aum	: 1-1	0F03	0F0C	0F04	0F04	2CF44	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	57	80	91	76	22.54	cps
Antimony	121-1	75	17	33	42	72.11	cps
Arsenic	75-2	0	4	8	4	100.00	cps
Barium	135-1	25	17	50	31	56.77	cps
Barium	137-1	50	117	92	86	39.11	cps
Beryllium	9-1	31	44	30	35	21.71	cps
Bismuth	209-1	5382253	5442334	5589016	5471201	1.94	cps
Bismuth	209-2	2919749	2892410	2894893	2902351	0.52	cps
Bromine	81-1	4151	3651	3659	3820	7.50	cps
Cadmium	108-1	21	17	25	21	19.99	cps
Cadmium	106-1	3617	3392	3434	3481	3.44	cps
Cadmium	111-1	2538	2375	2407	2440	3.54	cps
Calcium	43-1	227	227	216	224	2.90	cps
Calcium	44-1	35020	34490	33974	34495	1.52	cps
Carbon	12-1	2544394	2535813	2513573	2531260	0.63	cps
Carbon	12-2	30415	31008	30607	30677	0.99	cps
Chlorine	35-1	171466	174392	170597	172151	1.15	cps
Chlorine	35-2	1217	1258	1192	1222	2.76	cps
Chromium	52-2	1140	1143	1077	1120	3.35	cps
Cobalt	59-2	53	77	97	76	28.71	cps
Copper	63-2	497	560	600	552	9.44	cps
Dysprosium	156-1	17	0	8	8	100.02	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	67	58	33	53	32.87	cps
Erbium	164-2	30	27	17	24	28.38	cps
Gadolinium	160-1	100	108	100	103	4.68	cps
Gadolinium	160-2	130	130	103	121	12.71	cps
Holmium	165-1	7612364	8147854	8046092	7935436	3.58	cps
Holmium	165-2	3681447	3887442	3758603	3775831	2.76	cps
Indium	115-1	5954395	6151879	5964157	6023477	1.85	cps
Indium	115-2	917539	908418	913843	913267	0.50	cps
Iron	54-2	389	356	433	393	9.94	cps
Iron	56-2	3128	3189	3678	3332	9.05	cps
Iron	57-2	122	144	189	152	22.35	cps
Krypton	83-1	252	265	252	257	2.81	cps
Lead	206-1	744	756	750	750	0.74	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	594	572	561	576	2.95	cps
Lead	208-1	2928	2906	2778	2871	2.82	cps
Lithium	6-1	2422106	2453489	2487440	2454345	1.33	cps
Magnesium	24-2	117	133	292	181	53.49	cps
Manganese	55-2	63	90	110	88	26.67	cps
Molybdenum	94-1	125	108	142	125	13.33	cps
Molybdenum	95-1	67	17	50	44	57.28	cps
Molybdenum	96-1	125	83	142	117	25.75	cps
Molybdenum	97-1	17	17	8	14	34.67	cps
Molybdenum	98-1	50	75	75	67	21.65	cps
Neodymium	150-1	7	33	7	16	98.94	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	50	57	87	64	30.31	cps
Phosphorus	31-2	158	133	192	161	18.16	cps
Potassium	39-2	9954	9895	10237	10029	1.82	cps
Rhodium	103-1	6011167	6097516	6168786	6092490	1.30	cps
Rhodium	103-2	2937566	2940576	2990267	2956136	1.00	cps
Scandium	45-1	3952006	4080929	4106304	4046413	2.04	cps
Scandium	45-2	140759	138362	137851	138991	1.12	cps
Selenium	82-1	29	1	-8	8	252.21	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	17	16	11	15	21.92	cps
Silicon	28-1	212705	209510	210812	211009	0.76	cps
Silver	107-1	33	108	133	92	56.78	cps
Silver	109-1	75	100	50	75	33.33	cps
Sodium	23-2	14224	14357	14316	14299	0.48	cps
Strontium	86-1	458	517	425	467	9.94	cps
Strontium	88-1	683	667	617	656	5.29	cps
Sulfur	34-1	343982	337278	343488	341583	1.09	cps
Terbium	159-1	8013662	8261623	8272920	8182735	1.79	cps
Terbium	159-2	3771759	3659822	3682487	3704689	1.60	cps
Thallium	203-1	283	192	175	217	26.92	cps
Thallium	205-1	375	425	508	436	15.45	cps
Tin	118-1	775	725	875	792	9.65	cps
Titanium	47-1	150	75	92	106	37.31	cps
Uranium	238-1	58	42	58	53	18.23	cps

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	30	30	21	72.94	cps
Ytterbium	172-1	42	58	58	53	18.23	cps
Ytterbium	172-2	33	6	11	17	88.17	cps
Ytterbium	176-1	1108	1125	1167	1133	2.65	cps
Ytterbium	176-2	9754	9732	9904	9796	0.96	cps
Yttrium	89-1	10594181	11199398	11191454	10995011	3.16	cps
Yttrium	89-2	1208786	1211934	1198852	1206524	0.57	cps
Zinc	66-2	193	127	177	166	20.96	cps
Zirconium	90-1	442	400	417	419	5.00	cps
Zirconium	91-1	50	58	108	72	43.69	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S02	D w&pmb O r &u s b r :	8 N
F A C&Ssb l P D :	S02	t A &A C Msq&ap:	1
t s& T i A r cqdm r O:	2023-07-14 13:4J:22	t s&s M P u s b r :	00. F c LSU0

8 sps b r & p	5 s w w	F 8 S 1	F 8 S 2	F 8 S 3	F 8 S 5 r s C	F 8 S 9 S t	R C & w
c P b A C b	27-2	JJ7	J41	J21	J. 3	4U1.	ql w
c C& b n C y	121-1	J22N	J770	10046	J6N1	4U30	ql w
c p r C q	7. -2	132	13J	162	144	10UN	ql w
B s p b	13. -1	10221	110J6	10763	106J3	4U13	ql w
B s p b	137-1	1N. J6	1N6. .	1777J	1N343	2U67	ql w
B r p y P b	J-1	1. 34	1. . 7	1. J0	1. 60	1UN1	ql w
B A b m &	20J-1	. 34NJNN	. . J1J2N	. 43441N	. 4. N44.	2U26	ql w
B A b m &	20J-2	2J323N4	2NN. 0J7	2J0NN6J	2J0N7N3	0UN1	ql w
B p b A C	N1-1	461N	3J76	4076	4223	NU1N	ql w
F s C b b	10N-1	133	117	133	12N	7U3	ql w
F s C b b	106-1	3667	3J67	36. 1	3762	4U74	ql w
F s C b b	111-1	3J03	4116	3N16	3J4.	3UJ1	ql w
F s P q b	43-1	7444	7421	73N6	7417	0U3J	ql w
F s P q b	44-1	1. 12. 4	1. 334.	1. 1247	1. 1J4J	0UN0	ql w
F s p n C	12-1	2. 74. N1	2. 07J. 3	2. 3. 2. J	2. 3J264	1U32	ql w
F s p n C	12-2	31117	30N66	30741	30J0N	0U62	ql w
F h P p A C	3. -1	170N16	172620	172J33	172123	0U66	ql w
F h P p A C	3. -2	127.	120N	122.	1236	2UN1	ql w
F h p m b b	. 2-2	41J4	4114	4. 11	4273	4UJ1	ql w
F n e s P &	. J-2	26. 4	3004	2N17	2N2.	6U20	ql w
F n I l r p	63-2	. 011	. 01N	. 0J4	. 041	0UJ2	ql w
t y w l p n w b	1. 6-1	0	N	N	6	N6U60	ql w
t y w l p n w b	1. 6-2	3	0	3	2	N6U60	ql w
E p e b	164-1	. N	7.	7.	6J	13UN6	ql w
E p e b	164-2	23	37	33	31	22U31	ql w
G s C n F A C b	160-1	33	100	N3	72	4NU04	ql w
G s C n F A C b	160-2	103	J7	107	102	4UJN	ql w
H n P b b	16. -1	7N7. 4. 1	N2N1234	N313032	N1. 6. 72	2UJJ	ql w
H n P b b	16. -2	3N72NN7	3N0276J	37J0NJ1	3N221N2	1U16	ql w
D C C b	11. -1	6010646	6277323	61J7243	616173N	2U22	ql w
D C C b	11. -2	J2N0J.	J31071	J2. . 43	J2N236	0U30	ql w
D n C	. 4-2	3J. 1	3J73	43. 6	40J3	. U7	ql w
D n C	. 6-2	672. N	67302	6717.	6724.	0U10	ql w
D n C	. 7-2	1N2N	17J.	1N2N	1N17	1U06	ql w
K p y l & C	N3-1	267	24J	2J4	270	NU37	ql w
L r s O	206-1	. 1. 1	. 007	. 007	. 0. .	1U6.	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S02	D w&pmb O r &u s b r :	8 N
F A C&Ssb l P D :	S02	t A &N C M sq&ap:	1
t s& T i A r cqdm r O:	2023-07-14 13:4J:22	t s&s M P u s b r :	00. F c L S U D

8 sp s b r & p	5 s w w	F 8 S 1	F 8 S 2	F 8 S 3	F 8 S 5 r s C	F 8 S 9 S t	R C & w
L r s O	207-1	4212	4612	4101	430N	6U24	q l w
L r s O	20N-1	2002J	1JJ12	1J. 06	1JN16	1U3N	q l w
L A & n A m b	6-1	23J1170	23NJ3. .	24371. 1	240. NJ2	1U13	q l w
5 s g O r w A m b	24-2	. N66J	. JN. 7	. J347	. J2J1	1U01	q l w
5 s O g s O r w r	. . -2	763	N43	J30	N46	JUN6	q l w
5 n P y e O r O m b	J4-1	10404	102. 4	J67J	10112	3U7J	q l w
5 n P y e O r O m b	J. -1	12N. 6	12NJN	1364J	13134	3U40	q l w
5 n P y e O r O m b	J6-1	1. 242	144. 0	14J. 0	14NN1	2U6J	q l w
5 n P y e O r O m b	J7-1	N0J4	7N36	7010	7647	7U40	q l w
5 n P y e O r O m b	JN-1	207N3	20107	200N2	20324	1UJ6	q l w
u r n O y b A m b	1. 0-1	7	20	13	13	4JUJJ	q l w
u r n O y b A m b	1. 0-2	20	0	0	7	173U21	q l w
u A q k r P	60-2	NJ0	J00	N. 3	NN1	2U7J	q l w
8 h n w l h n p m w	31-2	1. N	167	1. N	161	2UJN	q l w
8 n & s w w A m b	3J-2	46133	464J2	47JN0	46N6N	2U0J	q l w
9 h n O A m b	103-1	. 7NJ1. J	61N40. 3	61232. N	60321. 7	3U2	q l w
9 h n O A m b	103-2	3024100	3030243	3007402	3020. N2	0U3J	q l w
S q s C O A m b	4. -1	3N370J0	4217N. 2	41. 4JJ0	406JJ77	. U02	q l w
S q s C O A m b	4. -2	13N214	13J214	13J632	13J020	0U2	q l w
S r P C A m b	N2-1	461	43J	4. 7	4. 2	2U66	q l w
S r P C A m b	77-2	20	17	30	22	31U22	q l w
S r P C A m b	7N-2	. .	6J	. J	61	11UN2	q l w
S A A q n C	2N-1	24JJ26	24NJ. 4	242J3.	247271	1U3	q l w
S A P r p	107-1	6760	6. N.	673.	66J3	1U41	q l w
S A P r p	10J-1	60N.	6127	67. 2	6321	. UJ1	q l w
S n O A m b	23-2	11J44.	12074N	11N606	11J600	0UJ0	q l w
S & n C & A m b	N6-1	210J	200J	16N3	1J34	11U4J	q l w
S & n C & A m b	NN-1	136JJ	13273	13131	1336N	2U21	q l w
S m P m p	34-1	344732	346J66	34. 636	34. 77N	0U33	q l w
i r p e A m b	1. J-1	7J6N34J	N40. . 22	N. 61. . 2	N311N0N	3U70	q l w
i r p e A m b	1. J-2	37. N. N3	37. 133J	37J6J0.	376NJ43	0U6.	q l w
i h s P A m b	203-1	. 2J3	. 343	4J1N	. 1N.	4U4N	q l w
i h s P A m b	20. -1	12. 1.	12064	11N64	1214N	2U74	q l w
i A C	11N-1	1J773	210. 0	1JN73	20232	3U1	q l w
i A & s C A m b	47-1	3434	3J17	3N17	3723	6UN6	q l w
R p s C A m b	23N-1	171J.	16762	1732J	170J.	1U74	q l w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbIP D :	S02	D Dw&pmb Or &usb r :	8N
FPA C&SsbIP D :	S02	t A P&nC Msq&ap:	1
t s& T i A r cqdmA r O:	2023-07-14 13:4J:22	t s&sMA P usb r :	00. FcLSU0

8spsb r&p	5 sww	F8S1	F8S2	F8S3	F8S5 rsC	F8S9 St	RC&w
VsCsOAmb	. 1-2	. 66N	. 70.	. J7.	. 7N2	2UJ0	ql w
Y&pe Amb	172-1	. 0	7.	. 0	. N	24U74	ql w
Y&pe Amb	172-2	. 0	44	2N	41	2NU3N	ql w
Y&pe Amb	176-1	11. 0	10. 0	10. 0	10N3	. U33	ql w
Y&pe Amb	176-2	J. . J	10. . 4	10332	1014J	. U1.	ql w
Y&pA mb	NJ-1	107NN732	11. N4160	1117N. 60	111N3N17	3U6	ql w
Y&pA mb	NJ-2	122647J	1240666	12134. 7	1226N67	1U11	ql w
ZA Cq	66-2	J07	N27	N60	N64	4U6.	ql w
ZA qnCAmb	J0-1	N661	N22N	N47N	N4. 6	2U7	ql w
ZA qnCAmb	J1-1	1742	20. 0	1J0J	1J00	NU12	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S03	D Dw&pmb Or &usb r :	8N
. PA C&Ssb l P D :	S03	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:J2:26	t s&s U A P usb r :	006. cLSFO

8spsb r &p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MC&w
c P mb A C A mb	27-2	42N3J	43304	42N01	429N0	0F6J	ql w
c C&b nCy	121-1	26413N	2J7N39	264161	262046	1F39	ql w
cpwr C A q	7J-2	7J22	7232	7336	7363	2F00	ql w
Bsp A mb	13J-1	2N1N36	2N6N76	2N00J0	2N2920	1F2J	ql w
Bsp A mb	137-1	4N3609	J00290	490096	491332	1F71	ql w
Br pyP A mb	9-1	74116	74J30	74634	74427	0F37	ql w
B A b m&a	209-1	J3N6162	J67473N	J449213	JJ03371	2F76	ql w
B A b m&a	209-2	2N79144	2NNJ136	2N96N64	2NN704N	0F31	ql w
Bpmb A Or	N1-1	41J1	37J1	3J76	3N26	7F71	ql w
. sOb A mb	10N-1	J914	J493	JN22	J743	3FNJ	ql w
. sOb A mb	106-1	10NNN	10N3N	10704	10N10	0FNN	ql w
. sOb A mb	111-1	711NJ	716J4	70N90	71243	0FJ4	ql w
. sPq A mb	43-1	N91N4	N9N41	NN2J4	N9093	0FN9	ql w
. sPq A mb	44-1	14NN999	1476N11	1J01070	14NN960	0FN1	ql w
. spenC	12-1	2NJ7271	2NNJ692	2NN2J04	2N7J1J6	0FJ4	ql w
. spenC	12-2	34700	3J26N	3J92N	3J299	1F74	ql w
. hPmpA Or	3J-1	177J3N	1N1932	1N0971	1N0147	1F2N	ql w
. hPmpA Or	3J-2	14N3	1200	1400	1361	10F70	ql w
. hpmb A mb	J2-2	N3294	N1337	7N993	N120N	2F6J	ql w
. nesP&	J9-2	147N94	14369N	146192	14J92N	1F4J	ql w
. nI l r p	63-2	11N334J	116J993	1167361	1172233	0FN2	ql w
t ywl pnw A mb	1J6-1	2J	JN	33	39	44F62	ql w
t ywl pnw A mb	1J6-2	17	10	3	10	66F70	ql w
Epe A mb	164-1	JN	92	67	72	24F02	ql w
Epe A mb	164-2	30	23	43	32	31F61	ql w
GsOnFA C A mb	160-1	7J	92	133	100	30F0J	ql w
GsOnFA C A mb	160-2	130	120	140	130	7F69	ql w
HnP b A mb	16J-1	7N92N34	N1J4600	7906020	79N44NJ	1FNJ	ql w
HnP b A mb	16J-2	37N0067	3N13J01	37NN121	3793N96	0F46	ql w
D C O A mb	11J-1	J906264	6214J94	622NN93	6116JN4	2F9N	ql w
D C O A mb	11J-2	91JN09	90N0J0	913629	912496	0F44	ql w
Dpn C	J4-2	1N4442	1N0900	1N2612	1N26J2	0F97	ql w
Dpn C	J6-2	3424N19	3467900	34JN276	34J0332	0F66	ql w
Dpn C	J7-2	N33N2	N21JN	N1376	N230J	1F23	ql w
Kpyl &a C	N3-1	272	260	2J4	262	3F64	ql w
Lr sO	206-1	1132393	1141110	1103076	112JJ26	1F77	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbI P D :	S03	D Dw&pmb Or &usb r :	8N
. PA C&SsbI P D :	S03	t A P&N C Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:J2:26	t s&s U A P usb r :	006. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
LrsO	207-1	97NN1N	993J97	960NJ7	9777J7	1F6N	ql w
LrsO	20N-1	470N349	4770102	4630N1J	47030N9	1F4N	ql w
LA&nAmb	6-1	2417N07	2J3906J	24J434J	2470406	2FJ2	ql w
RsgOr wAmb	24-2	639N34	6JJJ61	63934N	644914	1F43	ql w
RsOgsOr w r	JJ-2	3946N7	394192	3N7731	392203	0F99	ql w
RnPyeOr Omb	94-1	917176	921412	93137N	923322	0F79	ql w
RnPyeOr Omb	9J-1	13J730J	1366396	1400019	1374J73	1F64	ql w
RnPyeOr Omb	96-1	1J73971	1JJ3129	1JJ6499	1J61200	0F72	ql w
RnPyeOr Omb	97-1	N4176N	N40209	N249N7	N3J6JJ	1F11	ql w
RnPyeOr Omb	9N-1	22712J0	22N13J4	2234N96	2262J00	1F0N	ql w
u r nOyb Amb	1J0-1	20	7	60	29	96F07	ql w
u r nOyb Amb	1J0-2	3	3	0	2	N6F60	ql w
u A qkr P	60-2	40J21	39936	403J0	40269	0F7J	ql w
8hnwl hnpmw	31-2	2J67	22N4	2400	2417	JFN9	ql w
8n&swwAmb	39-2	206693	20JJ93	20J97J	2060N7	0F27	ql w
5hnOAmb	103-1	J94NJ92	612J0J6	607473J	6049461	1FJ0	ql w
5hnOAmb	103-2	2997600	2974NN2	2N70022	2947J02	2F31	ql w
SqsCOAmb	4J-1	39J1094	413J21J	4077996	40J476N	2F32	ql w
SqsCOAmb	4J-2	13904J	134J24	13742J	13699N	1F67	ql w
Sr P CAmb	N2-1	4964	J047	J042	J017	0F92	ql w
Sr P CAmb	77-2	1J3	167	137	1J2	9FN7	ql w
Sr P CAmb	7N-2	600	JJ0	490	J47	10F07	ql w
SA A qnC	2N-1	471921	J06J72	J21704	J00066	JF10	ql w
SA P r p	107-1	34163J	34337J	342474	34249J	0F2J	ql w
SA P r p	109-1	32672J	334139	333307	331390	1F23	ql w
SnOAmb	23-2	1149901	1140J37	11J2373	1147604	0FJ4	ql w
S&nC&Amb	N6-1	1937263	200327J	1972N36	197112J	1F6N	ql w
S&nC&Amb	NN-1	1640644J	16N7J9N7	16906606	16729679	1F6N	ql w
Sm P mp	34-1	376769	376021	37277J	37J1NN	0FJ7	ql w
i r peAmb	1J9-1	N212N11	N36N134	N270J26	N2N3N24	0F9J	ql w
i r peAmb	1J9-2	3674N77	36746JN	3732N71	3694136	0F91	ql w
i hs P Amb	203-1	264222	26692J	26N964	266704	0FN9	ql w
i hs P Amb	20J-1	644614	6J6933	640J9N	6473N2	1F31	ql w
i A C	11N-1	210NJ6	213790	2102J0	211632	0FN9	ql w
i A&sCAmb	47-1	37427J	37432J	374617	37440J	0F0J	ql w
M psCAmb	23N-1	N90904	90N717	NN3604	N9440N	1F44	ql w

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On:7/17/2023 6:34:55 AM
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LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S03	D Dw&pmb Or &usb r :	8N
. PA C&Ssb l P D :	S03	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:J2:26	t s&sU A P usb r :	006. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
VsCsOAmb	J1-2	614JN	60644	J9NJ1	606J1	1F32	ql w
Y&pe Amb	172-1	67	J0	2J	47	44F41	ql w
Y&pe Amb	172-2	J0	22	17	30	60F27	ql w
Y&pe Amb	176-1	2200	2092	2234	217J	3F41	ql w
Y&pe Amb	176-2	9NN7	104J4	10410	102J0	3F0N	ql w
Y&pAmb	N9-1	109NJ061	1116694N	110JJ142	110690J0	0FN3	ql w
Y&pAmb	N9-2	1201679	1204432	1223329	1209N13	0F97	ql w
ZACq	66-2	141916	14040J	139021	140447	1F03	ql w
ZAqnCAmb	90-1	4464J2	4JNN91	44JN67	4J0403	1F63	ql w
ZAqnCAmb	91-1	99706	103164	100277	101049	1FN3	ql w

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LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S04	D Dw&pmb Or &usb r :	8N
. PA C&Ssb l P D :	S04	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:JJ:24	t s&s U A P usb r :	007. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
c P b A C A b	27-2	104720	104723	1033J1	10426J	0F76	ql w
c C&b nC9	121-1	632070	644661	64N2N1	641670	1F33	ql w
cpwr C A q	7J-2	1776J	1772y	17N03	17766	0F21	ql w
Bsp A b	13J-1	6y2N0y	6y147J	6yy032	6y443y	0FJN	ql w
Bsp A b	137-1	1220JJ6	121JNN0	121N3y7	121N27N	0F1y	ql w
Br p9P A b	y-1	1N07NJ	1N232J	1N127y	1N1463	0F43	ql w
B A b m&a	20y-1	J4N6NyJ	J3y704y	JJJN722	J4N0NNy	1F4N	ql w
B A b m&a	20y-2	2NJ3420	2y01220	27N7J4J	2N473yJ	2F00	ql w
Bpnb A C r	N1-1	3NN4	3N17	3300	3667	NF71	ql w
. sC b A b	10N-1	13603	12NJ2	1366y	1337J	3F3y	ql w
. sC b A b	106-1	20424	21N10	206y1	20y7J	3FJ1	ql w
. sC b A b	111-1	16y6y7	1711N0	170362	170413	0F44	ql w
. sP q A b	43-1	21y0J0	21yJJJ	2161y4	21N266	0FN3	ql w
. sP q A b	44-1	3J1124J	3JN4J4y	3J0y70N	3J3J16N	1F21	ql w
. spenC	12-1	26y3y27	274470y	274N670	272y102	1F12	ql w
. spenC	12-2	33230	341yy	3340J	33611	1FJ4	ql w
. hP pA C r	3J-1	173Ny2	17J0y0	17464J	174J42	0F3J	ql w
. hP pA C r	3J-2	1417	1317	1267	1333	JF73	ql w
. hpnb A b	J2-2	1yJy77	1y3N64	1y2yy4	1y427y	0F7y	ql w
. nesR&	Jy-2	3J1J40	3J4233	344647	3J0140	1F41	ql w
. nI l r p	63-2	2yJ4N20	2y363J0	2NyJN47	2y2y006	1F03	ql w
t 9wl pnw A b	1J6-1	J0	42	17	36	4NF03	ql w
t 9wl pnw A b	1J6-2	33	30	33	32	JFy7	ql w
Epe A b	164-1	JN	JN	N	42	6yF2y	ql w
Epe A b	164-2	13	17	20	17	20F01	ql w
GsC nF A C A b	160-1	133	1JN	42	111	JJF2N	ql w
GsC nF A C A b	160-2	143	107	133	12N	14FN3	ql w
HnP b A b	16J-1	7yy11Jy	7yy2733	N01yyy1	N0012y4	0F20	ql w
HnP b A b	16J-2	377N6N2	37y6747	371y0JJ	3764N2N	1F0N	ql w
D C O A b	11J-1	601JyNy	JyJ3N61	600322N	Jyy1026	0FJJ	ql w
D C O A b	11J-2	y02N1y	NyJ336	NN7041	NyJ06J	0FNN	ql w
D pnC	J4-2	446736	43N730	4427y6	4427J4	0Fy0	ql w
D pnC	J6-2	N317640	N216671	N2N0N1N	N271710	0F62	ql w
D pnC	J7-2	20117N	1yNy1J	1y761J	1yy236	0Fy0	ql w
Kp9l &aC	N3-1	2y2	237	2J1	260	10Fyy	ql w
LrsO	206-1	30027y7	3002N76	3012y31	3006201	0F1y	ql w

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On:7/17/2023 6:34:55 AM
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LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbI P D :	S04	DDw&pmb Or &usb r :	8N
. PA C&SsbI P D :	S04	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:JJ:24	t s&sUA P usb r :	007. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
LrsO	207-1	2J6N12N	2600411	26160J1	2Jy4N63	0Fy4	ql w
LrsO	20N-1	11N13371	11N37001	120647y0	11y0J0J4	1F17	ql w
LA&nAmb	6-1	2377670	237y24J	2424411	23y377J	1F11	ql w
RsgOr wAmb	24-2	1612030	1J71710	1611026	1JyN2JJ	1F44	ql w
RsOgsOr w	JJ-2	yJ637y	y34403	y3646y	y42417	1F2y	ql w
RnP9eOr Omb	y4-1	22y12y6	230N2Jy	2314201	2304JNJ	0FJ2	ql w
RnP9eOr Omb	yJ-1	33601Ny	3430044	3347300	337y17N	1F32	ql w
RnP9eOr Omb	y6-1	3674N4N	36N422N	3742JyN	3700JJN	0Fyy	ql w
RnP9eOr Omb	y7-1	2076y3N	2071yy2	20J4NN2	2067y37	0FJ6	ql w
RnP9eOr Omb	yN-1	J4J463y	J4y7003	J4661NN	J472610	0F40	ql w
urnO9b Amb	1J0-1	J3	60	40	J1	1yFy2	ql w
urnO9b Amb	1J0-2	3	0	10	4	114F60	ql w
uAqkr P	60-2	yJ424	y62N7	y6431	y6047	0FJ7	ql w
8hnwl hnpmw	31-2	J701	JJy3	JJ43	J612	1F44	ql w
8n&swwAmb	3y-2	4N23y1	4N6471	47y3J3	4N273N	0F74	ql w
5hnOAmb	103-1	61026NJ	6113y6J	613J120	61172J6	0F27	ql w
5hnOAmb	103-2	2yN044N	2y03yyJ	2y24y46	2y36463	1F3J	ql w
SqsCOAmb	4J-1	402602J	410NJ4y	40042J7	4046277	1F36	ql w
SqsCOAmb	4J-2	134N0J	13JJ16	1323y4	13423N	1F22	ql w
Sr P CAmb	N2-1	11yJy	122y0	1226J	12171	1FJ2	ql w
Sr P CAmb	77-2	407	330	403	3N0	11F40	ql w
Sr P CAmb	7N-2	1301	1340	1261	1301	3F04	ql w
SA AqnC	2N-1	NJJ7yy	y33034	y6y0yJ	y1y30y	6F30	ql w
SA Pr p	107-1	N41600	N40yyy	N43703	N42101	0F17	ql w
SA Pr p	10y-1	N00N6N	N11J73	N11334	N07y2J	0F76	ql w
SnOAmb	23-2	274y33y	2722yy7	27N3N01	27J2046	1F11	ql w
S&nC&Amb	N6-1	4NNN177	4Ny3100	4737472	4N3yJN3	1FN3	ql w
S&nC&Amb	NN-1	413761y2	41747470	40762J1J	412yJ3y2	1F20	ql w
Sm P mp	34-1	407y4N	403J67	3yy64N	403721	1F03	ql w
i r peAmb	1Jy-1	N321yJ0	N361y32	N16N604	N2N4162	1F23	ql w
i r peAmb	1Jy-2	36J766y	3JyJN61	364416J	3632J6J	0FNy	ql w
i hs P Amb	203-1	6712J7	663411	66NN02	667N23	0F60	ql w
i hs P Amb	20J-1	1J6312y	167N247	1666120	163JN32	3FN7	ql w
i AC	11N-1	J14421	J2677y	J24634	J21y44	1F27	ql w
i A&sCAmb	47-1	y11N23	y20J1J	y0y7J7	y14032	0F62	ql w
MpsCAmb	23N-1	22NN142	2364yN7	23NJ320	23461J0	2F1N	ql w

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LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbIP D :	S04	D Dw&pmb Or &usb r :	8N
. PA C&SsbIP D :	S04	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:JJ:24	t s&sUA P usb r :	007. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
VsCsOAmb	J1-2	1477J0	14y046	144N3J	147210	1F47	ql w
Y&pe Amb	172-1	42	67	33	47	36F74	ql w
Y&pe Amb	172-2	3y	61	2N	43	3yFN4	ql w
Y&pe Amb	176-1	3N42	3NN4	40J1	3y26	2FN1	ql w
Y&pe Amb	176-2	10y27	10Nyy	1124y	1102J	1F77	ql w
Y&pAmb	Ny-1	114yy17N	11002034	110N403y	111yJ0N4	2F3N	ql w
Y&pAmb	Ny-2	1211N7y	11Ny6y0	11N234N	11y463y	1F2y	ql w
ZACq	66-2	334N3N	33J2yJ	3327yN	334311	0F40	ql w
ZAqnCAmb	y0-1	10yy13y	10y7261	110JN36	110074J	0F41	ql w
ZAqnCAmb	y1-1	237NNN	24J4J0	236330	23yNNy	2F03	ql w

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LB:umb er p.J	LB126466	o l r pw&mp.J	swl Pw8
Lwe:Swb l &:D :.J	S03	DD1 &pmb Or &u wb r :J	Na
. &A C&Swb l &:D :.J	S03	t A&m&A C:Uwq&mp.J	1
t w&:T:i Ab r :c qdmAr O.J	202-70 714:1-.J3a.J23	t w&wUA&:u wb r :J	00a. cLSFO

Nwpwb r &p	Rwl l	. NS1	. NS2	. NS-	. NSRr wC	. NS5 St	MCA&
c &mb ACAmb	2 72	206a31	201-0	2013a1	20-24	1F34	ql l
c C&b nC9	12171	12364a2	12y2y-a	12ya06a	12a24y6	1F	ql l
cpl r CAq	372	-3 6	-46--	-4460	-4y36	2F03	ql l
BwpAmb	1-371	1-36340	1-yy 11	140-a1	1-a66ay	1Fay	ql l
BwpAmb	1- 71	24 14	230ay4a	231-0--	24yyaya	0F	ql l
Br p9&Amb	y71	-3-0y0	-330a2	-3 024	-33063	0F33	ql l
BAb m&a	20y71	33-30y2	33 60y	34yy1-0	33-6 -	0F 0	ql l
BAb m&a	20y72	22y4y14	2 312 6	2 3yyay	260203y	10F22	ql l
Bpmb AOr	a171	-y01	-46	-642	-6 0	3Fy4	ql l
. wOb Amb	10a71	26-y2	2 -06	26 y	26a-2	1F 1	ql l
. wOb Amb	10671	-yy23	-y6 4	-y-y1	-y66-	0F6	ql l
. wOb Amb	11171	--66 y	-4-06	-42--	-406y4	1F0-	ql l
. w&qAmb	4-71	42 --6	4-06 6	42 14	42a3 3	0F4-	ql l
. w&qAmb	4471	6y1-6y2	6y10--3	6ay2y--	6y0363-	0F16	ql l
. wpenC	1271	2 1--a4	2 61234	2 334-0	2 4--36	0Fy3	ql l
. wpenC	1272	-34a3	-362a	-46 3	-3262	1F46	ql l
. h&mpAOr	-371	16a100	1 1-y6	1 423	1 1231	1Fa0	ql l
. h&mpAOr	-372	116	12a-	11a-	1211	3F21	ql l
. hpmb Amb	3272	-y14y4	- 6a4	-a064y	-a2yy	1Fya	ql l
. new&&	3y72	0-2 2	6a0--2	6aa221	6y060a	1F6y	ql l
. nl l r p	6-72	3a-4003	36 2a2y	362122-	3 0y-32	1Fy4	ql l
t 9l l pnl Amb	13671	11	6	a-	ay	2aF64	ql l
t 9l l pnl Amb	13672	40	0	4-	31	-2F1	ql l
EpeAmb	16471	123	3	3a	a6	40F2y	ql l
EpeAmb	16472	40	20	--	-1	-2F-	ql l
GwOn&ACAmb	16071	11	100	100	106	yF12	ql l
GwOn&ACAmb	16072	11	1--	130	1--	12F30	ql l
Hn&b Amb	16371	a0yyy21	a0a0a36	y2a612	a0-646-	1F1	ql l
Hn&b Amb	16372	-100a2y	- 141 y	- 12643	-30y21a	10F0a	ql l
DOCAmb	11371	6036yy6	6142204	61201y4	6106463	0F 2	ql l
DOCAmb	11372	0y341	a6 y0-	a333y1	a11012	10Fa6	ql l
DpnC	3472	aay a6	a6a106	a302a	a6y-y-	2F2a	ql l
DpnC	3672	16310106	162ya-04	16-3323a	16-a aay	0F6	ql l
DpnC	3 72	401166	-ay1y3	-y0 -1	-y-6y	1F63	ql l
Kp9l &aC	a-71	246	230	2 1	236	3F2	ql l
LrwO	20671	3y-1 y1	60a03aa	604 41	6020040	1F0	ql l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	o l r pw&apJ	swl Pw8
Lwe:Swb l &:D :J	S03	D1 &pmb Or &u wb r :J	Na
. &A C&Swb l &:D :J	S03	t A&m&A C:Uwq&apJ	1
t w&:T:i A&r :cqdmA&r O.J	202-70 714:1-JBaJ23	t w&WUA&:u wb r :J	00a. cLSFO

Nwpwb r &p	Rwl l	. NS1	. NS2	. NS-	. NSRrwC	. NS5St	MCA&
LrwO	20 71	30-yy0-	31y-021	32033y6	31461 -	1F y	ql l
LrwO	20a71	2---y-6-	2-y0y- 0	2-y212-3	2- 2--2-	1F40	ql l
LA&nAmb	671	242 3 -	2-442 2	2-yaa60	2-y02-3	1F	ql l
RwgOr l Amb	2472	-13 a64	-0a664a	-141610	-12a 0	1F1y	ql l
RwOgwOr l r	3372	20023 2	1y21030	1yy0a24	1y 14a2	2F24	ql l
Rn&eOr Omb	y471	44y2316	461y210	434y2y2	433-6 -	1F y	ql l
Rn&eOr Omb	y371	63ay3 3	6aa3a66	6a2ayy3	6 6a143	2F 2	ql l
Rn&eOr Omb	y671	266yy4	-4222a	-23461	-11361	0F34	ql l
Rn&eOr Omb	y 71	40a3a6	411a330	41303 a	411a--2	0F y	ql l
Rn&eOr Omb	ya71	10a04422	10a434-a	10y3 40y	10a6y0y0	0F -	ql l
urnO&bAmb	13071	10	-	a0	a	20F 3	ql l
urnO&bAmb	13072	-	1-	-		a6F63	ql l
uAqkr 8	6072	1y0y-2	1aa644	1a -13	1aay64	0Fy	ql l
Nhnl l hnpm	-172	10-a	10462	101 0	10-40	1F4	ql l
Nn&wl l Amb	-y72	y4yy16	y22 4	y24130	y-22a0	1F64	ql l
5hnOAmb	10-71	3y y024	601412a	60-2 6a	600a640	0F43	ql l
5hnOAmb	10-72	2-141a6	2 yaa-y	2a460 y	263-0-4	11F10	ql l
SqwCOAmb	4371	-y a041	402023	-y0yy3a	-y6y41y	1F40	ql l
SqwCOAmb	4372	10y200	12y-61	1-06 6	12-0 y	yF a	ql l
Sr &CAmb	a271	24236	24432	2404-	24230	0Fa4	ql l
Sr &CAmb	72	a0-	2-	y	4	3F -	ql l
Sr &CAmb	a72	2341	234-	246y	231a	1F6	ql l
SA&qnC	2a71	122-2y4	1-3a346	142-y03	1--324a	F66	ql l
SA&vr p	10 71	1 -3 a3	1 42ya	1 6y2-6	1 3y -	1F1y	ql l
SA&vr p	10y71	1640101	1 214-1	16a60y2	16a2341	2F42	ql l
SnOAmb	2-72	3466202	34442-4	3-4003-	3416a-0	1F24	ql l
S&nC&Amb	a671	y- 33a1	y3164ay	y--a y	y4102ay	1F00	ql l
S&nC&Amb	aa71	a06y-a14	a1y-1a-y	a20 a3a	a136a0a0	0Fy-	ql l
Sm&mp	-471	46 4 6	4 -62-	4 2444	4 11a1	0F6y	ql l
i r pe Amb	13y71	a2 2yy2	a441-16	a- 41 1	a-62a2	1F01	ql l
i r pe Amb	13y72	-0-1 23	-6231a	-63-2 1	-4-6 2a	10F21	ql l
i hw&Amb	20-71	1-13 43	1-42 0	1-432y-	1--4602	1F2-	ql l
i hw&Amb	20371	-233a44	-- y3-6	--416	--236a6	1Fy1	ql l
i AC	11a71	1021322	104y411	104a6a1	10-ya 1	1F3-	ql l
i A&wCAmb	4 71	1a62064	1a40204	1a4yy63	1a30 44	0F3y	ql l
MpwCAmb	2-a71	4 1 23-	46-1a1a	4 102y4	46a6433	1F01	ql l

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	olrpw&apJ	swlPw8
Lwe:Swbl&:DD:J	S03	DD1&mbOr&uwbr:J	Na
.&AC&Swbl&:DD:J	S03	t&m&AC:Uwq&apJ	1
tw&:T:iAbr:cqdmAr OJ	202-70 714:1-JBaJ23	tw&UA&:uwbr:J	00a. cLSFO

NwpwbR&p	Rwll	. NS1	. NS2	. NS-	. NSRrwC	. NS5St	MCA&
VwOwOAmb	3172	2y3 ya	2a313-	2a 624	2ay323	1Fy2	qll
Y&&peAmb	1 271	100	123	3	100	23F00	qll
Y&&peAmb	1 272	1	44	--	-1	44F41	qll
Y&&peAmb	1 671	641a	6 1y	6360	6366	2F2y	qll
Y&&peAmb	1 672	1064-	11a33	12230	113a-	F2-	qll
Y&&pAmb	ay71	10y144-	10yyyy2y	10y- y3	10y30 4	0F40	qll
Y&&pAmb	ay72	y3013a	112 3a	114-346	10 -a20	10F00	qll
ZAOq	6672	662 6a	63430a	64a41y	6332-2	1F10	qll
ZAqnCAmb	y071	2230001	2-460a	224a021	22a1-6y	2F46	qll
ZAqnCAmb	y171	4 6-06	4y2063	4aa3 2	4a364a	1F 0	qll

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
. lient Sample ID :	S06	Dilution Uactor :	1
Date & Time Acquired :	2023-07-14 14:01:24	DataUile Name :	00C. ALSFd

Parameter	Rass	. PS1	. PS2	. PS3	. PSRean	. PS5 SD	Mnits
Aluminium	27-2	3C8C77	3C89C3	3C6039	3C7868	0F40	cps
Antimony	121-1	264186C	261C468	2633298	2631932	0F43	cps
Arsenic	79-2	68702	67973	67680	67C89	0FC2	cps
Barium	139-1	2C2C044	2897998	2C28914	2C0903C	1F42	cps
Barium	137-1	4849411	4824941	4C60483	4876812	1F90	cps
Beryllium	C-1	682276	684233	6C69C7	687702	1F13	cps
Bismuth	20C-1	9460373	9466C21	487C42C	9268C08	6F40	cps
Bismuth	20C-2	2729993	27C9099	2786343	2768C83	1F37	cps
Bromine	81-1	3626	3342	3891	3606	7F07	cps
. admium	108-1	92717	924C1	9234C	9291C	0F39	cps
. admium	106-1	73488	799CC	79319	74800	1F93	cps
. admium	111-1	696792	69771C	66832C	660C33	0FC7	cps
. alcium	43-1	82743C	843968	849347	838789	1F18	cps
. alcium	44-1	13241290	13977291	13470440	1342C647	1F28	cps
. arbon	12-1	2898C63	3036C97	3139499	301049C	4F66	cps
. arbon	12-2	3C386	40697	40923	4018C	1F74	cps
. hlorine	39-1	162CC4	169C92	16746C	169471	1F38	cps
. hlorine	39-2	1190	1133	11C2	1198	2F9C	cps
. hromium	92-2	738360	739970	727732	733887	0F79	cps
. obalt	9C-2	1326944	13296C6	1327760	1326667	0F08	cps
. opper	63-2	110C9363	108C6934	108146C9	10C39930	1F32	cps
Dysprosium	196-1	242	229	1C2	21C	11F60	cps
Dysprosium	196-2	C3	63	77	78	1CF33	cps
Erbium	164-1	98	79	198	C7	99F11	cps
Erbium	164-2	33	20	17	23	37F78	cps
Gadolinium	160-1	242	1C2	217	217	11F94	cps
Gadolinium	160-2	170	180	1C7	182	7F3C	cps
Holmium	169-1	8012398	810C494	7043430	7721747	7F63	cps
Holmium	169-2	37613C2	36C7388	37311C1	372CCC0	0FB6	cps
Indium	119-1	9C8646C	9CCC708	9249246	9743807	7F92	cps
Indium	119-2	848419	848694	849323	847464	0F22	cps
Iron	94-2	1781192	1807899	17800C3	178C700	0FB8	cps
Iron	96-2	31784387	31916C18	31931CC7	31611101	0F48	cps
Iron	97-2	76121C	79C901	793673	798131	0F92	cps
Krypton	83-1	227	284	267	260	11F19	cps
Lead	206-1	1193782C	119C2734	121027C9	11744493	2F69	cps

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LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
. lient Sample ID :	S06	Dilution Uactor :	1
Date & Time Acquired :	2023-07-14 14:01:24	DataUile Name :	00C. ALSFd

Parameter	Rass	. PS1	. PS2	. PS3	. PSRean	. PS5 SD	Mnits
Lead	207-1	10009616	OC89103	10193C78	10048232	0FC2	cps
Lead	208-1	49C83C38	49768979	4790C344	4642061C	2F04	cps
Lithium	6-1	2337083	2319726	2192714	2268908	4F49	cps
Ragnesium	24-2	607216C	6087670	6034693	6064831	0F49	cps
Ranganese	99-2	3846639	3767688	3801387	3809236	1F04	cps
Rolybdenum	C4-1	C084836	8C37018	8843316	8C99097	1F36	cps
Rolybdenum	C9-1	13402637	13397383	130190C6	13298372	1F60	cps
Rolybdenum	C6-1	143C3932	14739397	14630332	14986407	1F20	cps
Rolybdenum	C7-1	7879919	8013180	8073682	7C8749C	1F27	cps
Rolybdenum	C8-1	20733896	21937897	212C8143	2118OC92	1FC9	cps
Neodymium	190-1	133	167	160	193	11F90	cps
Neodymium	190-2	17	20	10	16	32F73	cps
Nickel	60-2	363778	363004	364OC3	363C29	0F28	cps
Phosphorus	31-2	20482	20769	21490	208OC	2F38	cps
Potassium	3C-2	1863063	1889668	1897486	186873C	0F80	cps
5hodium	103-1	9C06909	603423C	9189042	97089C9	8F02	cps
5hodium	103-2	2731068	2712147	2782613	2741C43	1F33	cps
Scandium	49-1	3866491	4001170	33C6940	3794720	8F49	cps
Scandium	49-2	128791	129631	128603	127662	1F38	cps
Selenium	82-1	46C89	46C38	47741	47221	0FC9	cps
Selenium	77-2	1390	14C3	1467	1437	9F31	cps
Selenium	78-2	47C1	4C17	466C	47C3	2F9C	cps
Silicon	28-1	22878C4	298442C	2693332	2908992	7F74	cps
Silver	107-1	33C862C	3472797	3919C24	3462437	1F71	cps
Silver	10C-1	3247C68	31C0008	32OC09C	3249678	1F68	cps
Sodium	23-2	10363193	104761C1	10283080	10374141	0FC4	cps
Strontium	86-1	18709022	188142C7	1C029C12	18848410	0F87	cps
Strontium	88-1	1603C8920	1980C0698	1614C3924	19OOC4234	1F0C	cps
Sulfur	34-1	9C2327	98C841	9C4318	9C2162	0F38	cps
Terbium	19C-1	8314044	860711C	740364C	8108271	7F74	cps
Terbium	19C-2	3990C33	3987047	3623800	3987260	1F02	cps
Thallium	203-1	27OC249	2801936	2C12723	2837839	2F2C	cps
Thallium	209-1	63C6236	6436068	6646780	64C3028	2F07	cps
Tin	118-1	2116094	20C8660	2129C61	2113998	0F69	cps
Titanium	47-1	3934248	3607830	34C3C7C	3949392	1F63	cps
Mranium	238-1	C09C204	8C68931	C37C133	C139623	2F36	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
. lient Sample ID :	S06	Dilution Uactor :	1
Date & Time Acquired :	2023-07-14 14:01:24	DataUile Name :	00C. ALSFd

Parameter	Rass	. PS1	. PS2	. PS3	. PSRean	. PS5 SD	Mnits
Vanadium	91-2	994331	99C762	9647C3	99C628	0FC3	cps
Ytterbium	172-1	108	108	129	114	8F49	cps
Ytterbium	172-2	90	61	61	97	11F17	cps
Ytterbium	176-1	11C64	12181	11822	11C8C	1F91	cps
Ytterbium	176-2	14180	14698	143C7	14412	1F66	cps
Yttrium	8C-1	11003284	10C11C21	C796880	10997362	6F98	cps
Yttrium	8C-2	112447C	1132621	1129871	1127697	0F3C	cps
Zinc	66-2	1273243	129626C	1244430	1297C81	1F19	cps
Zirconium	C0-1	4414621	4373270	4439879	4407C22	0F72	cps
Zirconium	C1-1	C64CC7	C3C978	C69348	C96641	1F94	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	202- 703714 14:04:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Aluminium	2372	346631	341859	323585	3- 8305	1.- 4	cps
Antimony	12171	511- 385	511316-	509- 922	5108290	0.25	cps
Arsenic	3572	129156	1235- 4	125- 64	123- 51	1.49	cps
Barium	1- 571	56- 5014	5488083	55463- 3	555661-	1.- -	cps
Barium	1- 371	961124-	9435144	9429188	9505192	1.00	cps
Beryllium	971	1- - 4201	1- 69663	1- 4- - 29	1- 49066	1.- 3	cps
Bismuth	20971	5181139	5416652	5289104	5295645	2.2-	cps
Bismuth	20972	2519115	2- 62029	2505905	2462- 50	- .54	cps
Bromine	8171	- 509	- 692	- 501	- 563	- .04	cps
Cadmium	10871	99129	1024- 1	100056	1005- 9	1.69	cps
Cadmium	10671	14040-	14125-	1- 9193	140284	0.34	cps
Cadmium	11171	1262109	1256452	1282448	126300-	1.08	cps
Calcium	4- 71	1319985	13- 9990	1323366	1329243	0.58	cps
Calcium	4471	25940- 39	26- 99126	2548- 295	259409- -	1.33	cps
Carbon	1271	29180- 4	2919515	2925- 06	2920952	0.1-	cps
Carbon	1272	- 31- 1	- 3341	- 3081	- 3- 13	0.98	cps
Chlorine	- 571	160929	163882	166- 40	165050	2.21	cps
Chlorine	- 572	1035	128-	1258	1206	9.44	cps
Chromium	5272	1488060	1435256	1424514	1462610	2.- 0	cps
Cobalt	5972	2643163	2692906	24325- 5	260420-	4.43	cps
Copper	6- 72	203853- 6	20418069	1999- 839	20- 99228	1.94	cps
Dysprosium	15671	235	292	235	281	- .4-	cps
Dysprosium	15672	16-	18-	193	181	9.26	cps
Erbium	16471	150	63	100	106	- 9.34	cps
Erbium	16472	50	2-	- -	- 6	- 3.90	cps
Gadolinium	16071	- - -	458	- 92	- 94	15.86	cps
Gadolinium	16072	260	24-	193	2- -	14.03	cps
Holmium	16571	8010929	8298393	3998684	810280-	2.10	cps
Holmium	16572	- 499393	- - 054- 9	- - 94653	- - 99964	2.86	cps
Indium	11571	5690160	5854011	582- - 35	5389182	1.50	cps
Indium	11572	368689	323413	363436	354523	- .11	cps
Iron	5472	- - 54- 64	- - 94- 0-	- 201023	- - 16565	- .08	cps
Iron	5672	59369253	5959- 890	5323- 255	58838801	2.- 3	cps
Iron	5372	15500- 1	1521216	1432912	1514320	2.53	cps
Krypton	8- 71	216	231	2- 5	241	11.61	cps
Lead	20671	2- 18- 580	2- 84- 810	2- - 09505	2- 4456- 2	1.50	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	202- 703714 14:04:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Lead	20371	19824390	19900349	2012384-	19951123	0.39	cps
Lead	20871	911518- 2	9- 023- 53	918- 3334	92005654	1.0-	cps
Lithium	671	228035-	22380- 0	2225531	2261451	1.- 8	cps
Magnesium	2472	11493063	1129356-	11064159	1128626-	1.92	cps
Manganese	5572	3142283	3192085	692- 996	308612-	2.01	cps
Molybdenum	9471	133- 1062	13- 583- 8	13363558	13619119	1.28	cps
Molybdenum	9571	26264031	26250663	26- 30539	26295106	0.25	cps
Molybdenum	9671	28256- 33	28580916	28520019	284524- 3	0.61	cps
Molybdenum	9371	156969- 1	15882581	15641951	15340488	0.80	cps
Molybdenum	9871	41684148	41399464	41315612	413- - 035	0.14	cps
Neodymium	15071	- 03	263	223	263	15.00	cps
Neodymium	15072	23	13	13	20	28.86	cps
Nickel	6072	680- 94	68- 662	658308	634255	2.01	cps
Phosphorus	- 172	- 8920	40515	- 8369	- 9401	2.46	cps
Potassium	- 972	- 491499	- 429898	- - 83865	- 4- 6421	1.52	cps
Rhodium	10- 71	56688- 6	5582059	539- 503	5681463	1.83	cps
Rhodium	10- 72	2555- 04	24- 639-	2483446	249- 181	2.- 9	cps
Scandium	4571	- 336631	- 8- 6220	- 389189	- 80069-	0.8-	cps
Scandium	4572	113546	11- - 98	120- 60	113101	2.99	cps
Selenium	8271	9044-	91256	91260	90986	0.52	cps
Selenium	3372	2653	28- 4	2303	23- -	- .- -	cps
Selenium	3872	9096	8962	8860	8932	1.- 2	cps
Silicon	2871	- 254050	- 264535	- 265005	- 261210	0.19	cps
Silver	10371	6628804	662- 008	6503262	6586- 58	1.04	cps
Silver	10971	6199- 42	628- 268	6222959	62- 5190	0.69	cps
Sodium	2- 72	19819489	1995209-	1920- 555	19658- 39	2.0-	cps
Strontium	8671	- 69- - 182	- 3- 39330	- 59984- -	- 6330462	1.92	cps
Strontium	8871	- 20- 20882	- 18824990	- 11- 35465	- 16840446	1.51	cps
Sulfur	- 471	843- 08	850391	8- 8039	845- 9-	0.38	cps
Terbium	15971	8091251	8- - 8940	8125335	8185- 22	1.64	cps
Terbium	15972	- - 19085	- 205120	- - 49393	- 291- - 4	2.- 2	cps
Thallium	20- 71	5413254	5699802	5560915	5559- 24	2.54	cps
Thallium	20571	123- 3354	1- 4- 6966	12382050	12985590	- .02	cps
Tin	11871	4120806	4181538	4098063	41- - 484	1.04	cps
Titanium	4371	68- 0- 18	6944346	69- - 432	6902845	0.91	cps
Uranium	2- 871	18188- 13	18- - 8946	18- 4- 43-	18290245	0.48	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	202- 703714 14:04:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Vanadium	5172	1030004	1032222	10463- -	1062986	1.- -	cps
Ytterbium	13271	125	142	142	1- 6	3.03	cps
Ytterbium	13272	63	8-	32	34	11.46	cps
Ytterbium	13671	22920	2- 655	2- 943	2- 508	2.25	cps
Ytterbium	13672	19014	18146	13829	18- - 0	- .- 5	cps
Yttrium	8971	10895819	10655562	10698368	10350049	1.19	cps
Yttrium	8972	1044669	1002324	104842-	10- 19- 9	2.46	cps
Zinc	6672	2461225	2428229	24- 0931	2440142	0.35	cps
Zirconium	9071	8330612	8591391	8580420	8643603	1.2-	cps
Zirconium	9171	1934515	1961088	193508-	1930229	0.40	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	Operstor:J	aswl sP
Lsb:SsmpRe:ID:J	S03	Inwtrumnet:Nsme:J	83
CRent:SsmpRe:ID:J	S03	DiRition:Fsctor:J	1
Dste:&:Time:Acquired:J	202-70 714:14J0 J2-	DstsFiRe:Nsme:J	011CALS.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	2 72	-459154	-44-395	-95 002	-912013	2.22	cpw
Antimony	12171	-0-4	2-05	4063	-1-	23.15	cpw
Arwenic	972	116	1	99	31	-5.20	cpw
Bsrium	1-971	44-9	-190	96-6	440	23.20	cpw
Bsrium	1- 71	3-93	5-25	10-1	5--4	10.90	cpw
BeryRium	571	2-5	149	56	-5-	35.91	cpw
Biwmuth	20571	4923313	49 1 93	44 14-	4929506	1.09	cpw
Biwmuth	20572	2169609	215-4 1	2155 34	213623	0.3-	cpw
Bromine	3171	4-52	4305	4-34	4925	9.-	cpw
Csdmium	10371	142	104	1--	126	19.93	cpw
Csdmium	10671	2505	2500	-100	25 0	-.31	cpw
Csdmium	11171	2304	240	-12-	2 3	12.50	cpw
CsRium	4-71	690-946	69 52-1	64-04 -	6904416	1.14	cpw
CsRium	4471	109 22019	103 91904	1095 0936	106314 02	1.9	cpw
Csrbon	1271	2 41- 4	2 -6640	2 5 - 3	2 93464	1.22	cpw
Csrbon	1272	-3295	-3565	-5 6-	-355	1.5-	cpw
ChRrine	-971	166455	1 1204	1 --94	1 0-92	2.06	cpw
ChRrine	-972	1-3-	1-00	14 9	1-36	6.-1	cpw
Chromium	9272	31-6	3212	3162	31 0	0.43	cpw
CobsRt	9572	6-99	96-3	9663	933	6.35	cpw
Copper	6-72	19099	1012	599	11930	26.11	cpw
Dywprowium	19671	1093	1093	1003	1042	2.	cpw
Dywprowium	19672	4 0	460	910	430	9.91	cpw
Erbium	16471	190	193	229	1 3	2-.12	cpw
Erbium	16472	6-	9	5	2	25.6	cpw
GsdoRnium	16071	1252	11--	53-	11-6	1-.9	cpw
GsdoRnium	16072	600	930	6 -	613	.59	cpw
HoRmium	16971	11-443	1--616	039513	110554	0.-4	cpw
HoRmium	16972	-131 16	-054500	-1 6101	-190509	1.94	cpw
Indium	11971	911 -55	9-23305	90199--	919-514	-.10	cpw
Indium	11972	15 62	03-34	-2140	20059	1.69	cpw
Iron	9472	14125-64	1- 55 55	14942243	1419 1-	2.6-	cpw
Iron	9672	2613 691	299 6-400	2 0405-90	26263-035	2.30	cpw
Iron	9 72	6449141	692-405	6650-31	69925	1.51	cpw
Krypton	3-71	210	245	290	2-6	5.62	cpw
Lesd	20671	1-264	513	15024	1-329	-9. 9	cpw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	Operstor:J	aswl sP
Lsb:SsmpPe:ID:J	S03	Inwtrumnet:Nsme:J	83
CPent:SsmpPe:ID:J	S03	DiPtion:Fsctor:J	1
Dste:&:Time:Acquired:J	202-70 714:14J0 J2-	DstsFiPe:Nsme:J	011CALS.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	20 71	1005	1-136	16 00	1--2	24. 5	cpw
Lesd	20371	4 191	41904	626	945 4	--.5-	cpw
Lithium	671	20-0930	153-492	153 290	200042	1.-1	cpw
Msgnewium	2472	4549 64-	45695544	905901-2	900229 -	1.62	cpw
Msngsnewe	9972	146	9639	4361	935	15.62	cpw
MoPybdenum	5471	6335	-934	12 9	45	60.03	cpw
MoPybdenum	5971	5291	4-26	195 3	5392	95.-	cpw
MoPybdenum	5671	1091-	91 6	15165	11615	60. 3	cpw
MoPybdenum	5 71	6025	2495	10603	6-69	64.13	cpw
MoPybdenum	5371	16133	6 63	2995-	1613-	93.16	cpw
Neodymium	19071	1 -	1 -	10	191	29.4	cpw
Neodymium	19072	4-	6	6-	93	21.39	cpw
NickePP	6072	--	-1 0	-1-0	-226	4.10	cpw
8howphoruw	-172	11	11	193	1-1	13.4-	cpw
8otswwium	-572	19910040	196 4 -9	19505021	1965 5-2	1.23	cpw
Rhodium	10-71	4 3-4 -	4511122	4 553-9	43-14 6	1.44	cpw
Rhodium	10-72	2219543	21 31-1	22 1216	2221 69	2.11	cpw
Scsndium	4971	--09666	-4--299	-41599	--36195	2.0	cpw
Scsndium	4972	105236	105 -6	1121 4	110-55	1.41	cpw
SePenium	3271	436	430	921	456	4.43	cpw
SePenium	72	2-	10	1	1	-5.55	cpw
SePenium	372	1	99	63	69	1-.19	cpw
SiPcon	2371	904163	934-05	95 323	962102	5.01	cpw
SiPver	10 71	552	5 9	1042	100-	-.46	cpw
SiPver	10571	352	51	500	50-	1.41	cpw
Sodium	2-72	3 63-052	3 4-2321	502692-1	33460-31	1.	cpw
Strontium	3671	222-0	-9-4	293-4	1 155	65.60	cpw
Strontium	3371	1122	26413	202150	11-623	.-9	cpw
SuPur	-471	2540 2	23 635	252-60	251- 4	1.1-	cpw
Terbium	19571	442131	43693	6539 14	-0432	-.30	cpw
Terbium	19572	-0392-0	-04 696	-0 --63	-063 91	0.6-	cpw
ThsPum	20-71	2113	11 9	-910	226	91.30	cpw
ThsPum	20971	493	296	3 60	9-09	95.94	cpw
Tin	11371	-142	2952	41 6	--04	24.-9	cpw
Titsnium	4 71	12 9	42	-360	1595	39.1-	cpw
Ursnium	2-371	-1-9	2-5-	111 6	9963	3 .45	cpw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

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Lsb:SsmpRe:ID:J	S03	Inwtrumnet:Nsme:J	83
CRent:SsmpRe:ID:J	S03	DiRtion:Fsctor:J	1
Dste:&:Time:Acquired:J	202- 70 714:14J0 J2-	DstsFiRe:Nsme:J	011CALS.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	9172	9 -	- -	21	- 33	46.10	cpw
Ytterbium	1 271	103	100	3-	5	1- .05	cpw
Ytterbium	1 272	106	61	96	4	- .00	cpw
Ytterbium	1 671	111	101	590	1023	3.16	cpw
Ytterbium	1 672	3- 93	965	3505	32 5	3.1-	cpw
Yttrium	3571	5469 13	5 - 3452	5- 05 63	5904695	2.23	cpw
Yttrium	3572	53453-	566- 44	55- - 2-	531990	1.41	cpw
Zinc	6672	635-	9 31	95- 1	6202	5. 2	cpw
Zirconium	5071	4463	- - 34	- - 3	906-	40.- 9	cpw
Zirconium	5171	2256	00	1 95	1939	91.24	cpw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJa	LB126466	n t plwTClJa	swl Pw8
Lwr JDwe t 8pJS&JaJ	S)3-76	S l Tlbe . pTJmwe pJa	Nu
0 8p. TJDwe t 8pJS&JaJ	S)3-76	&8bTcC. JJwdTClJa	1
&wTpJ JAce pJqdCbdpoJa	2-2 :-7:14J14a2-a12	&wTwJc8pJmwe pJa	-12S)3Fo

NwIwe pTpl	RwI l	0 ND1	0 ND2	0 ND	0 NDRpw.	0 ND5 D&	M. cT
q8be c cbe	27:2	22 92	22242	227 2	224yy	1F12	dt l
q. Tce C. h	121:1	1-1422y	1-2uu2-	1-y11 u	1- 1 9y	1Fu-	dt l
qll p. cd	7y:2	29 99	- - -	296u4	297-4	1F-6	dt l
Bwlcbe	1 y:1	11 u6-	11 74	11y67y	114426	-F9y	dt l
Bwlcbe	1 7:1	1947 y	19u141	2-1 64	19u-u-	1F67	dt l
Bplh8bbe	9:1	147 u2	1y- 97	1477-9	14u496	1F11	dt l
Bdc e bTE	2-9:1	yy61 21	yyy 269	yyuu41-	yy67667	-F	dt l
Bdc e bTE	2-9:2	2u97y1y	2947661	27947- -	2u799y9	2F71	dt l
BlCe c p	u1:1	617	u 4	4u4	64y	4Fuy	dt l
0 woe cbe	1-u:1	u619	uu9-	9-u2	uu64	2F62	dt l
0 woe cbe	1-6:1	1y267	1y976	16126	1y79-	2F91	dt l
0 woe cbe	111:1	1 u-6y	14-221	1444y6	14-914	2F 1	dt l
0 w8dcbe	4 :1	-12y	1-62	-74	-64	1Fyy	dt l
0 w8dcbe	44:1	y2621	y y997	y 7u47	y y2	1F17	dt l
0 wlr C.	12:1	267262	26 69u7	264177u	26y-462	-F7	dt l
0 wlr C.	12:2	u-6	242-	2679	296u	2F24	dt l
0 E8Clc p	y:1	19462-	2- - 719	2- - 921	19u7y	1Fu-	dt l
0 E8Clc p	y:2	1467	1y-u	1yy-	1y-u	2F76	dt l
0 ElCe cbe	y2:2	16-4-6	161 47	1617-9	1611y4	-F42	dt l
0 Cr w8T	y9:2	291yy	292y1u	292y79	292217	-F2-	dt l
0 Ct t pl	6 :2	2267y7	22u422	2 -126	22u4 y	-F74	dt l
&hl t lCl cbe	1y6:1	u	u	u	u	-F- -	dt l
&hl t lCl cbe	1y6:2	-		1-	4	114F6-	dt l
Glr cbe	164:1	17	42	67	42	6-F- -	dt l
Glr cbe	164:2	2	27	17	22	22F91	dt l
HwoC8c cbe	16-:1	7y	1-u	92	92	1uF1u	dt l
HwoC8c cbe	16-:2	14-	12-	1	1 1	7F77	dt l
KC8e cbe	16y:1	u292y74	u2-2 y2	u121 19	u2-y41y	1F-4	dt l
KC8e cbe	16y:2	7u6 29	uy7y74	797u- -	u1 9-1	1F- -	dt l
S ocbe	11y:1	61u- 72	6 146u7	617667u	622 912	1F26	dt l
S ocbe	11y:2	916y 7	9 1 76	912199	92- - 7	1F-9	dt l
S)C.	y4:2	146u92	14u yu	14u u6	147u7u	-Fyu	dt l
S)C.	y6:2	269u244	272 62	27479-u	272 2y9	-F91	dt l
S)C.	y7:2	6 1	64 7u	6y49y	64 9y	1F69	dt l
glht TC.	u :1	24y	2y1	246	247	1F 4	dt l
Lpwo	2-6:1	966u2u	974 64	97yuyy	972 49	-Fy-	dt l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJa	LB126466	n t plwTClJa	swl Pw8
Lwr JDwe t 8pJS&JaJ	S)3-76	S l Tlbe . pTJmwe pJa	Nu
0 8p. TDwe t 8pJS&JaJ	S)3-76	&8bTcC. JJwdTClJa	1
&wTpJ JAce pJqdCbdpoJa	2-2 :-7:14J14a2-a12	&wTwJc8pJmwe pJa	-12S)3Fo

NwIwe pTpl	Rwl l	0 ND1	0 ND2	0 ND	0 NDRpw.	0 ND5 D&	M. cT
Lpwo	2-7:1	u1-u u	u12y7y	u2u 91	u1726u	1F1u	dt l
Lpwo	2-u:1	9274 4	4--1177	4-yu-4u	99yyy	1F64	dt l
LcIEcbe	6:1	24u4u7	24yuuy2	2444y4u	24627yu	-Fu	dt l
Rwk. pl cbe	24:2	149y-4	14676u	14y9y4	1474-u	1F26	dt l
Rw. kw. pl p	yy:2	7u6-y	7u474	7u29-	7u4y7	-F2-	dt l
RC8hr op. be	94:1	17-9	1uy9	162y	17 1	6Fu	dt l
RC8hr op. be	9y:1	2 y9	2 2y	2 67	2 y-	-F94	dt l
RC8hr op. be	96:1	2y42	2u17	26--	26y	yF46	dt l
RC8hr op. be	97:1	1y--	1 17	1 yu	1 92	6F91	dt l
RC8hr op. be	9u:1	6 4	4-26	u76	u4y	yF14	dt l
mpCohe cbe	1y-:1	1	7	7	9	4 F2y	dt l
mpCohe cbe	1y-:2		-	-	1	17 F21	dt l
mcdvp8	6-:2	u497y	u6uy	u 694	uy174	1Fu7	dt l
NECl t ECIbl	1:2	12y	1y-	12y	1	1-Fu	dt l
NCTwl l cbe	9:2	161616	16y44	162627	16 229	1F21	dt l
5 ECocbe	1- :1	62y2 62	62y6761	621u-u-	62424-1	-F 4	dt l
5 ECocbe	1- :2	29uy-6u	-67-69	2971294	--7u1-	1F72	dt l
Ddw. ocbe	4y:1	412-y y	4-64u-	412-17-	41-1u 6	-F7u	dt l
Ddw. ocbe	4y:2	1 92yu	1 9--7	1 6 67	1 u211	1F16	dt l
Dp8p. cbe	u2:1	2---1	2-461	2-147	2-2-	1F16	dt l
Dp8p. cbe	77:2	697	6 -	69-	672	yF46	dt l
Dp8p. cbe	7u:2	2244	217y	22-y	22-u	1Fy7	dt l
DcdC.	2u:1	22691y	2 -yu2	2 6-u4	2 1194	2F-	dt l
Dc8pl	1-7:1	261-9	7967	424 7	yy-4	2Fy1	dt l
Dc8pl	1-9:1	266yy	27uy6	27262	272yu	-F1u	dt l
DCocbe	2 :2	472-97	4672--	46y667	46u 21	-F72	dt l
DTC. Tcbe	u6:1	1u4	2717	297y	29y9	7F91	dt l
DTC. Tcbe	uu:1	226u1	2-642	242-y	22y1-	7F94	dt l
Dbc8bl	4:1	29 -	u-29	714	6- 4	-Fu1	dt l
ApIr cbe	1y9:1	u 1yu 9	uy22-96	u 27u-7	u uuyu1	1F u	dt l
ApIr cbe	1y9:2	7291 -	67u272	741777	716 9	-F9-	dt l
AEwc8cbe	2- :1	119yuu7	1214 79	12- y9u	12-4621	-F77	dt l
AEwc8cbe	2-y:1	29664u4	-u -1-	-1491u	-21471	1F94	dt l
Ac	11u:1	1yy-	1y42	1yy-	1y47	-F 1	dt l
AcTw. cbe	47:1	7y-	792	yyu	7--	17F7u	dt l
MIw. cbe	2 u:1	1242	127y	12u	1267	1F74	dt l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r pIJa	LB126466	n t pIwTCIJa	swI Pw8
Lwr JDwe t 8pJS&JaJ	S)3-76	S I Tbe . pTJmwe pJa	Nu
0 8p. TJDwe t 8pJS&JaJ	S)3-76	&cbTcC. JJwdTCIJa	1
&wTpJ JAce pJqdCbcdpoJa	2-2 :-7:14J14a2-a12	&wTwUc8pJmwe pJa	-12S)3Fo

NwIwe pTpI	RwI I	0 ND1	0 ND2	0 ND	0 NDRpw.	0 ND5 D&	M. cT
3w. wocbe	y1:2	11u9y6	1192 2	11u-y6	11u74u	-Fy2	dt I
YTTpIr cbe	172:1	92	7y	67	7u	16F 7	dt I
YTTpIr cbe	172:2	2u	44	2u		2uFu7	dt I
YTTpIr cbe	176:1	92y	1-7y	1-yu	1-2-	uF-6	dt I
YTTpIr cbe	176:2	1-4-4	9uu2	1-26-	1-1u2	2F6y	dt I
YTTrcbe	u9:1	111u9629	1122 uyy	11 u22 9	1126y241	-F91	dt I
YTTrcbe	u9:2	1226149	12 24u4	12-y7y	1221462	1F14	dt I
Zc d	66:2	y4264	y27u1	yy 64	y41 6	2F 9	dt I
ZcdC. cbe	9-:1	1267	1217	1192	122y	F12	dt I
ZcdC. cbe	91:1	17	7y	42	44	uFy-	dt I

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	n t pIwTCI:J	swI Pw8
Lwr :Dwe t 8p:S&:J	S0 B3-6	S I TIbe . pTmwe p:J	Nu
0 8p. TDwe t 8p:S&:J	S0 B3-6	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2327 3- 14:14.J27.Ja1	&wTwMt8p:mwe p:J	3170 0 BFUb

NwIwe pTpI	5 wI I	0 ND1	0 ND2	0 ND7	0 ND5 pw.	0 ND9 D&	R. dT
q8be c dbe	2- 2	172	13-	171	124	11U7u	dt I
q. Tde C. y	121 1	6h2	66-	61-	6au	aUu3	dt I
qII p. dd	- a 2	h	13	a	u	77U3-	dt I
BwIdbe	17a 1	16-	2a3	177	1u7	72Uu	dt I
BwIdbe	17- 1	777	242	26-	2u1	16Uuh	dt I
Bply8dbe	h 1	13h	13a	136	13-	1Uh	dt I
Bdde bTE	23h 1	aa33443	a474u3h	a4a4h23	a4677h3	3U62	dt I
Bdde bTE	23h 2	2uha22u	2u444h1	2h1a-4u	2uua1a6	1U2-	dt I
BIDe c p	u1 1	7-42	4142	41-6	4323	6U33	dt I
0 woe dbe	13u 1	46	21	7u	7a	76U66	dt I
0 woe dbe	136 1	773h	72-a	712a	727-	7U32	dt I
0 woe dbe	111 1	2742	27-3	2272	271a	7U14	dt I
0 w8dbe	47 1	726	731	743	722	6U3h	dt I
0 w8dbe	44 1	43a22	7h-ua	7hu6-	433au	1U31	dt I
0 wIr C.	12 1	246h37u	24-21h4	247hh26	24637u6	3U2	dt I
0 wIr C.	12 2	71377	2h6aa	737hh	73762	2U2-	dt I
0 E8DIc p	7a 1	16uah-	1-334u	16h424	16h7a6	3U47	dt I
0 E8DIc p	7a 2	1742	12au	1433	1777	aU74	dt I
0 EIDe dbe	a2 2	11a7	11-7	13h7	1143	7U6a	dt I
0 Dr w8T	ah 2	1-7	h-	123	173	73U27	dt I
0 Dt t pI	67 2	12- -	11-7	113-	11u6	-U27	dt I
&yI t IDI dbe	1a6 1	2a	u	1-	1-	a3U31	dt I
&yI t IDI dbe	1a6 2	3	3	3	3	3U33	dt I
FIr dbe	164 1	2a	2a	77	2u	1-U71	dt I
FIr dbe	164 2	73	73	2-	2h	6U6a	dt I
GwoC8c dbe	163 1	177	6-	au	u6	4-U4	dt I
GwoC8c dbe	163 2	1a-	133	11-	124	27U43	dt I
HC8e dbe	16a 1	u13h3h2	u1u1-a3	-h24h37	u3-1h1a	1U64	dt I
HC8e dbe	16a 2	7-uh-2u	7-u-u62	7u2112h	7-hha-7	3U4h	dt I
S odbe	11a 1	62713aa	61h7uh7	617u7a1	61u- - 66	3Ua	dt I
S odbe	11a 2	h274-1	h27a-u	h242u3	h27- - 6	3U3a	dt I
8C.	a4 2	6-u	636	-6-	6u7	11Uu1	dt I
8C.	a6 2	-62a	-3au	aaa-	6-4-	1aUu4	dt I
8C.	a- 2	2a3	1u7	1u7	236	1uU7	dt I
KIyt TC.	u7 1	274	261	26a	2a7	6U4	dt I
Lpwo	236 1	1a61	1422	12ha	1426	hU7a	dt I

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	n t pIwTCI:J	swI Pw8
Lwr :Dwe t 8p:S&:J	S0 B3- 6	S I Tbe . pT:mwe p:J	Nu
0 8p. TDwe t 8p:S&:J	S0 B3- 6	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2327 3- 14:14.J27.Ja1	&wTwMt8p:mwe p:J	3170 0 BFUb

NwIwe pTpI	5 wI I	0 ND1	0 ND2	0 ND7	0 ND5 pw.	0 ND9 D&	R. dT
Lpwo	23- 1	1736	1277	136-	1232	13U1h	dt I
Lpwo	23u 1	61ha	aa62	a7a1	a- 32	- U 1	dt I
LdEdbe	6 1	24h- 131	24a26aa	27h- 6a3	244h17a	2U37	dt I
5 wg. pI dbe	24 2	h6-	u3u	6h2	u22	16U h	dt I
5 w. gw. pI p	aa 2	2a7	1- -	16-	1hh	27Uu4	dt I
5 C8yr op. be	h4 1	a42	4a3	4a3	4u1	11U31	dt I
5 C8yr op. be	ha 1	a1-	ah2	a3u	a7h	uUa2	dt I
5 C8yr op. be	h6 1	h77	6h2	a3u	- 11	2hUhu	dt I
5 C8yr op. be	h- 1	4au	2h2	7h2	7u1	22U34	dt I
5 C8yr op. be	hu 1	1333	1133	hu7	132u	6U14	dt I
mpCoye dbe	1a3 1	17	-	-	h	47U2a	dt I
mpCoye dbe	1a3 2	3	7	7	2	u6U63	dt I
mdkp8	63 2	u7	- 3	6-	- 7	12U32	dt I
NEDI t EDIbI	71 2	13u	11-	h2	136	12U36	dt I
NCTwI I dbe	7h 2	1237h	12a64	12722	1273u	2U14	dt I
9 EDodbe	137 1	63h213u	636613h	6361ah1	63- 726h	3U2-	dt I
9 EDodbe	137 2	2hh1332	2h3u161	2h- 47a-	2ha- u43	1U4u	dt I
Ddw. odbe	4a 1	41- 76a6	4113763	7h- aa42	43u6a23	2U4u	dt I
Ddw. odbe	4a 2	17ua2u	17a614	17- hu7	17- 7- a	1U17	dt I
Dp8p. dbe	u2 1	1u	21	27	h	2ahUh1	dt I
Dp8p. dbe	- - 2	3	3	3	3	3U33	dt I
Dp8p. dbe	- u 2	13	14	1a	17	23U7a	dt I
D8dC.	2u 1	216146	213- 74	211ha2	212h44	1U77	dt I
D8vpI	13- 1	ah2	4h2	46-	a1-	12Uu3	dt I
D8vpI	13h 1	41-	777	72a	7au	14U14	dt I
DDodbe	27 2	27a4a	27232	24421	27- 27	2U6a	dt I
DTC. Tbe	u6 1	12h2	11- a	uu7	111-	1uUu4	dt I
DTC. Tbe	uu 1	ua- h	- h37	a61u	- 76-	21U36	dt I
Db8bI	74 1	776722	74774u	77h212	77h62-	1U34	dt I
ApIr dbe	1ah 1	u4a- 3h1	u7u6312	u26h6- 4	u7- 3h26	1U17	dt I
ApIr dbe	1ah 2	7u3a- - 4	7- 6a3hu	76hh443	7- a6- - 1	1U47	dt I
AEw8bbe	237 1	u42	a- a	- 33	- 36	1uUh1	dt I
AEw8bbe	23a 1	1u74	14au	14h2	1aha	17U32	dt I
Ac	11u 1	ha3	- 6-	677	- u7	23U73	dt I
AdTw. dbe	4- 1	2u7	73u	16-	2a7	2hUh1	dt I
RIw. dbe	27u 1	71-	2a3	23u	2au	21U1a	dt I

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	n t pIwTCI:J	swI Pw8
Lwr :Dwe t 8p:S&:J	S0 B3- 6	S I Tbe . pT:mwe p:J	Nu
0 8p. T:Dwe t 8p:S&:J	S0 B3- 6	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2327 3- 14:14:J27Ja1	&wTwMt8p:mwe p:J	3170 0 BFlo

NwIwe pTpI	5 wI I	0 ND1	0 ND2	0 ND7	0 ND5 pw.	0 ND9 D&	R. dT
Vw. wodbe	a1 2	43	73	27	71	26U1-	dt I
YTTpIr dbe	1- 2 1	42	2a	2a	71	71Ua3	dt I
YTTpIr dbe	1- 2 2	44	1-	77	71	44U41	dt I
YTTpIr dbe	1- 6 1	1377	hu7	13- a	1371	4U4a	dt I
YTTpIr dbe	1- 6 2	13221	hu26	134uu	131- u	7U2-	dt I
YTTrdbe	uh 1	1124h- 26	117731a2	11373uhh	11237ah2	1U7u	dt I
YTTrdbe	uh 2	1211uh-	123a71u	12342uu	123- 16u	3U74	dt I
Zc d	66 2	213	1- 3	1- -	1u6	11Uaa	dt I
ZdcdC. dbe	h3 1	62a	61-	a42	ah4	- U2	dt I
ZdcdC. dbe	h1 1	16-	133	13u	12a	2hU36	dt I

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Inst Id :P8

LBaber plDas	LB126466	otlDTnDas	wlP8lN
Llpa3lrtNlas&aaa	S03-7 6	SCPTDer ClTabl r las	um
0NlCTa3lrtNlas&aaa	S03-7 6	&deTnCaFlqTnDas	1
&lTaiaAcrla qdedDOas	272:J7 J14a14s46s2:	&lTFdNlabl r las	71m8O3-.O

ulDrlTD	MlPP	0u31	0u32	0u3:	0u3MllC	0u3R3&	UCaP
-Ner cCcer	2 J2	4:75961	4:17:1m	441:49m	4:4:259	1.47	qt P
-CTcr nCy	121J1	59	591m	6::5	67	:. 1	qt P
-DPlCcq	5J2	65	69	m2	2	12.:4	qt P
BlDcer	1:5J1	1 92	1 77	15m	1692	6.1	qt P
BlDcer	1: J1	:279	2m59	:157	:7 :	6.17	qt P
BlDyNler	9J1	445	4 4	4 1	46:	:.44	qt P
BcPr eTn	279J1	5:72 m5	5:::216	54744:6	5:46m1:	7.9m	qt P
BcPr eTn	279J2	2 75669	2 626:7	2m1 191	2 61m7	2.72	qt P
BDnr cCl	m1J1	47 6	476	4 m4	4:79	9.55	qt P
0lOr cer	17mJ1	1m6	167m	1 5	1 57	.4m	qt P
0lOr cer	176J1	2m92	:757	:157	:7:1	4.:7	qt P
0lOr cer	111J1	2m4:	2975	2m6	2m2	1.17	qt P
0lNqcer	4:J1	1646 :9	16 9422	161554	164 2:6	1.94	qt P
0lNqcer	44J1	264m::6	26962:15	264m6942	266455:1	1.7:	qt P
0lDpnC	12J1	14:: 154	14 5m2m	14m9m7m6	146 7:56	2.71	qt P
0lDpnC	12J2	1m796:	1m2594	1m1647	1m1 :2	7.45	qt P
0hNDcCl	:5J1	9914915	12455:61	14:22 57	122:1779	1m79	qt P
0hNDcCl	:5J2	126:7	1::5:	1: 4m2	1:2442	4.2m	qt P
0hDnr cer	52J2	:25m	:2m71	:215:	:2514	1.72	qt P
0npl NT	59J2	::6	::5	:574	:479	2.47	qt P
0nttlD	6:J2	1 9:1	1 664	1 mmm	1 m2m	7.m7	qt P
&yPtDnPcer	156J1	42	1	1	25	5 . :	qt P
&yPtDnPcer	156J2	27	17	1	16	:2. :	qt P
EDpcer	164J1	11	5	6	m6	:1.11	qt P
EDpcer	164J2	27	::	:7	2m	24.9m	qt P
GlOnNCcer	167J1	125	m	5	94	2m:6	qt P
GlOnNCcer	167J2	12:	14:	17:	12:	16.22	qt P
HnNl cer	165J1	m2m5mm2	m 29 79	m 2 954	m 14515	7.:7	qt P
HnNl cer	165J2	:m 7m7m	:m2 75	: 59 :7	:m767m1	1.76	qt P
SCOcer	115J1	679592:	611:452	6291214	6166m6:	1. 5	qt P
SCOcer	115J2	mm5127	mm919:	mm2 4	mm56m	7.:	qt P
SDnC	54J2	:25722	24791m	2 5:66	2m74:5	7.5m	qt P
SDnC	56J2	1:42 :49	1:52 :6m6	1::21 52m	1:4254974	7.	qt P
SDnC	5 J2	:426 26	:447559	:419 6m	:42971m	7.:1	qt P
KDytTnC	m J1	251	29	2m1	2	m4m	qt P
LlIO	276J1	2156:	21 52	22:5m	21m91	1.97	qt P

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBaber plDas	LB126466	otIDTnDas	wIP8IN
LIpa3IrtNa&aa	S03-7 6	SCPTDer CITabIrIas	um
ONCTa3IrtNa&aa	S03-7 6	&dNTnCaFIqTnDas	1
&ITaiaAcrIaqdedDCas	272:J7 J14a14s46s2:	&ITFdNabIrIas	71m8O3-.O

ulDrITD	MIPP	0u31	0u32	0u3:	0u3MIIC	0u3R3&	UCdP
LIIO	27 J1	16976	1 7 m	1 156	1 74	7. 5	qt P
LIIO	27mJ1	m7152	m2:27	m244	m1647	1.5m	qt P
LdTher	6J1	2446426	2: m724	2476 76	2417:m5	1.4:	qt P
MIgCIPter	24J2	127m59mm	122:9955	11 6 6 :	127:1275	2.77	qt P
MICgICIPI	55J2	67m5	61 1	6191	6149	7.92	qt P
MnNypCICer	94J1	:79:297	:1797	:7 1m64	:791411	7.67	qt P
MnNypCICer	95J1	54 :m52	54 m6:	5:7 526	541991:	1.m7	qt P
MnNypCICer	96J1	5m91742	591:2m5	5m66126	5m97151	7.47	qt P
MnNypCICer	9 J1	: :12661	: : 6m67	: :29m19	: : :9 m7	1.77	qt P
MnNypCICer	9mJ1	m657162	m925191	m65 :2	m 44:61	1. 9	qt P
bInOyr cer	157J1	: :	2	27	2	24.99	qt P
bInOyr cer	157J2	:	1:		m	65.4	qt P
bcqkIN	67J2	4 71	451	45	4599	2.7:	qt P
uhnPthnDeP	:1J2	2226:4	2227: :	219146	2212 1	7.m4	qt P
unTPPter	:9J2	5 69m5	:129:	6 m7:6	662175	1.72	qt P
RhnOter	17:J1	6759519	6764226	61217: :	67m159:	7.56	qt P
RhnOter	17:J2	2m47957	29:215	2917664	2m94591	1.65	qt P
3qICOter	45J1	476 9:	4159m4	41m67	41:m425	1.52	qt P
3qICOter	45J2	1:m171	1: 9:2	1: 45m	1: m7	7.24	qt P
3INNter	m2J1	6	J44	J:m	J25	J17m9	qt P
3INNter	J2	7	7	7	7	7.77	qt P
3INNter	mJ2	27	1m	11	16	2m9:	qt P
3dqnC	2mJ1	:4261	:49:97	:4956m	:4 191	1.14	qt P
3dNID	17 J1	242	1 5	292	2:6	24. 9	qt P
3dNID	179J1	225	225	2m	244	1:. m	qt P
3nOter	2:J2	22m2 m	2266m12:	2244567:	2264mm m	7.m6	qt P
3TDnCTer	m6J1	552	54: : 1	5: 12	54447	1.45	qt P
3TDnCTer	mmJ1	4622mm	46512m	46 m9	46576m	7.59	qt P
3eNeD	:4J1	2596	2666m6	259475	261922:	1.5m	qt P
AIDter	159J1	m : :464	m4545m9	m61159m	m466557	1.65	qt P
AIDter	159J2	: 51765	:m7 57m	: 1 524	: 5m699	1.21	qt P
AhINter	27:J1	mm	mm	977	mm9	1.7m	qt P
AhINter	275J1	1m5	1977	1mm4	1mm6	7.6m	qt P
AdC	11mJ1	166	1692	1457	167:	m29	qt P
AdTter	4 J1	1616724	165m92	167 724	162 :25	1. 7	qt P
UDter	2:mJ1	577	77	5m	594	16.97	qt P

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBaber plDas	LB126466	otlDTnDas	wlP8lN
Llpa3lrtNa&kasa	S03-7 6	SCPTder ClTabl rlas	um
ONCTa3lrtNa&kasa	S03-7 6	&deTnCaFlqTnDas	1
&lTaiaAcrlaqdedDCas	272:J7 J14a14s46s2:	&lTFdNablrlas	71m8O3-.O

ulDrlTD	MlPP	0u31	0u32	0u3:	0u3MllC	0u3R3&	UCaP
VlClOcer	51J2	227	27	2:7	219	5.:5	qtP
YTTDpcer	1 2J1	: :	42	42	:9	12.:m	qtP
YTTDpcer	1 2J2	: :	1	22	24	:5.24	qtP
YTTDpcer	1 6J1	m42	m6	177m	976	9.9:	qtP
YTTDpcer	1 6J2	964:	954m	9 9m	966:	1.:1	qtP
YTDcer	m9J1	112:26 1	112:m2:7	115:m61m	11: :6576	1.54	qtP
YTDcer	m9J2	1274556	12144:5	1196956	1275:15	7. :	qtP
ZcCq	66J2	: :17	:7 7	:79	:159	4.16	qtP
ZcDqnCcer	97J1	65m	692	525	625	14.11	qtP
ZcDqnCcer	91J1	92	142	5	17:	: : . 6	qtP

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Inst Id :P8

LBæ r p l Dtas	LB126466	n &Dt8iCtas	P8Nu 8m
L8l a38p &mDaSTaaa	S\3 - B7 6	S Ntr p . Diæ 8p Das	bl
0 mD. ia38p &mDaSTaaa	S\3 - B7 6	Tqmnic C. aM8diCtas	1
T8iDaAacqp Da dCrqDoas	272: J7 J14a14sw7s2l	T8i8MqpDae 8p Das	71FS\3 Blu

b8t8p DiDt	5 8NN	0 b 3 1	0 b 3 2	0 b 3 :	0 b 3 5 D8.	0 b 3 9 3 T	R. qN
- mnp q qrp	2 J2	42 7 2	4147 6l	417 11l	41 4Fl 6	2U16	d&N
- . iqp C. y	121J1	17F6: F	111F47	112: : 6	111: 7w	1U 1	d&N
- tND. qpl	wJ2	2F4F	: 74F	2l l 2	2F67	2U 4	d&N
B8tqrp	1: wJ1	24722	244 :	24 47	24411	1U4F	d&N
B8tqrp	1: J1	4: 446	4124	42l 1l	42w74	2U66	d&N
BDtymqrp	FJ1	2l 1l 7	2F7: 1	2l 474	2l w. l	1Uww	d&N
BqNp rih	27FJ1	w4 7274	w4l FFl :	w. : : 2ww	w4: 114l	1Uw	d&N
BqNp rih	27FJ2	2 l l 21w	2 w. 24	2F7274F	2l 21l 62	2U4	d&N
BtCp q D	l 1J1	: 7F	: l 71	447F	: F :	FUl	d&N
0 8op qrp	17l J1	: : 1	: : 6:	: : w	: : 7	7U1F	d&N
0 8op qrp	176J1	w426	w471	w. F:	w47	7U 2	d&N
0 8op qrp	111J1	2l w2l	2F1: 7	2F124	2l F2	1U27	d&N
0 8mdqrp	4: J1	167 226	1wl 122:	1w F: 1F	1wl F2w6	7UFl	d&N
0 8mdqrp	44J1	2w6l l 2: 7	2w64w727	2ww4F747	2w62 4: 7	7U2l	d&N
0 8tl C.	12J1	14w l 164	146w 71F	14l 27412	146l w1Fl	7U 4	d&N
0 8tl C.	12J2	1l 116w	1l 4l 4l	1l 1 4	1l 2wF6	1U7l	d&N
0 hm6tq D	: wJ1	1216FF22	146 41w	16w1wl 7:	144w. 2F4	1wU7F	d&N
0 hm6tq D	: wJ2	1: F46l	146471	14 2:	144w. 1	: U7	d&N
0 htCp qrp	w2J2	62l 1	626w6	624 2	6264F	7U2l	d&N
0 Cl 8mn	wFJ2	wF14F	wF: :	wFw61	wF: 61	7U w	d&N
0 C&&Dt	6: J2	6767F	6724	wF62l	67161	7U 2	d&N
TyN&tCNqrp	1w6J1	42	w7	1	: 6	4l U7:	d&N
TyN&tCNqrp	1w6J2	17	2:	27	1l	: FU7:	d&N
Etl qrp	164J1	1wl	F2	42	F	67U27	d&N
Etl qrp	164J2	: :	: 7	: 7	: 1	6U1l	d&N
G8oCnqqrp	167J1	F2	wl	177	l :	26U46	d&N
G8oCnqqrp	167J2	12:	12	14:	1: 1	l U1	d&N
HCnqrp	16wJ1	l w. l 4 l	l : 4: 272	l : w2246	l 411: 7F	1U 1	d&N
HCnqrp	16wJ2	: l : ww2	: l wF16	: F74 w7	: l l 4 : F	7U4w	d&N
S oqrp	11wJ1	6: F7 7	62l w1F4	6246442	6: 7 44	1U1l	d&N
S oqrp	11wJ2	l Fl 1F7	l l 1714	F72: l 6	l F: l 6:	1U2	d&N
\$C.	w4J2	24: : w1	2l 2: 61	171 l 7	27F164	1U 2	d&N
\$C.	w6J2	1: 71w1 4w	12l l 1w7w7	1: 2F12477	1: 7626: Fl	1U67	d&N
\$C.	w J2	: 2 l 1	: : 2wF12	: : 741Fw	: : 7262F	7U :	d&N
Kty&iC.	l : J1	24F	264	24w	2w2	: UF:	d&N
LD8o	276J1	126: 16	124l 47	12 l 2F	126: 2l	1U1l	d&N

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Inst Id :P8

LBæ r p l Dtas	LB126466	n &Dt8iCtas	P8Nu 8m
L8l a38p &mDaSTaaa	S\3 - B7 6	S Ntr p . Diæ 8p Das	bl
0 mD. ia38p &mDaSTaaa	S\3 - B7 6	Tqmicq C. aM8diCtas	1
T8iDaAacqp Da dCrqDoas	272: J7 J14a14sw7s2l	T8i8MqpDae 8p Das	71FS\3 Blcb

b8t8p DiDt	5 8NN	0 b 3 1	0 b 3 2	0 b 3 :	0 b 3 5 D8.	0 b 3 9 3 T	R. qN
LD8o	27 J1	17: 11:	17wwF:	174F7F	174w. F	1U2:	d&N
LD8o	27l J1	4l 6144	4F1671	4F2w. 2	4F77F:	7U 7	d&N
Lqihqrp	6J1	2w26l 6l	2w7F76l	24F7177	2w7l 6 F	7U :	d&N
5 8g. DNqrp	24J2	11l 1 171	11 26 F:	11l 7 42:	11 l : 2	7U42	d&N
5 8. g8. DND	wwJ2	2177F	211w6	27 6F	27F l	7UF:	d&N
5 Cqml oD. r p	F4J1	: 7w l	: 7w411l	: 11 : F:	: 7 646:	1U1w	d&N
5 Cqml oD. r p	FwJ1	w: 61l F	w: F: 21l	w: 6wl Fw	w: l 4: 4	7U26	d&N
5 Cqml oD. r p	F6J1	w 6l F	wl 2: : 4	wl 776F:	wl 77: 16	7U47	d&N
5 Cqml oD. r p	F J1	: : : w. 7F	: 26ww 2	: 2l 666l	: 2Fwl w7	1U7F	d&N
5 Cqml oD. r p	Fl J1	l w611F:	l 4Fw 2F	l w. 76l	l w2F27:	7U l	d&N
e DCoyp qrp	1w7J1	2	: :	1:	24	41U66	d&N
e DCoyp qrp	1w7J2		17	7	6	F1U64	d&N
e qdkDm	67J2	1F27:	1F: 6:	1F: :	1F: 71	7U44	d&N
b hCN&hCtr N	: 1J2	2277: 6	21w22F	21: Fw	216: w.	1Uw1	d&N
b Ci8NNqrp	: FJ2	612121	w2: l l 4	w: wl 61	ww 2l F	7U6:	d&N
9 hCoqrp	17: J1	6764l 7l	674Fl 1w	6124166	67 FwF6	7U6w	d&N
9 hCoqrp	17: J2	2l 6F2 7	2l 1 7 6	2l 1Fl :	2l w2 6	1U7l	d&N
3 d8. oqrp	4wJ1	41Fw4F4	4211l wF	41w2w76	41l 6627	7U :	d&N
3 d8. oqrp	4wJ2	1472wl	1: wwl 7	1: l l l 1	1: l 247	1U 4	d&N
3 DmD. qrp	l 2J1	1F46	1l 62	1F: 7	1F1:	2U 2	d&N
3 DmD. qrp	J2	w:	7	w7	wl	1l Uww	d&N
3 DmD. qrp	l J2	21:	21w	271	217	: U61	d&N
3 qmqlC.	2l J1	: 4l : 7	: 4F612	: w4F7	: w7F42	1U77	d&N
3 qmDt	17 J1	126261	12F771	12F14w	12l 1: 6	1U2	d&N
3 qmDt	17FJ1	127l l l	12: 4	124: 2w	122l F6	1U46	d&N
3 Coqrp	2: J2	21F4 6l l	21l 64: 46	222w26wF	22721w64	7UF:	d&N
3 itC. iqrp	l 6J1	w1F7w	w2l 6	w. 2 l	w26l 6	1U 4	d&N
3 itC. iqrp	l l J1	4w4Fw7	464: 1w	4wl 2F1	4wF1l 6	1U7:	d&N
3 rmrt	: 4J1	2w41 4:	2w1 F F	24 l l 6w	2w12l 62	1U26	d&N
cDtl qrp	1wFJ1	l 61714	l 6: 22l	l 62l 4 F	l 62: 6: l	7U14	d&N
cDtl qrp	1wFJ2	: l 142F6	: l 2 2 1	: l 1l 1	: l : l 1:	7U F	d&N
ch8mqrp	27: J1	11wl 14	11l 1: w	11 w74	11 1w1	1U72	d&N
ch8mqrp	27wJ1	2 l 4:	2l 1l 7	2 l 24	2 FwFF	7U6F	d&N
cq	11l J1	1: 42	1w: :	14wl	144w	6U6F	d&N
cqi8. qrp	4 J1	1677424	16764F2	1wl 162:	1wF61l 7	7U 1	d&N
Rt8. qrp	2: l J1	w7l	w7l	wl :	w: :	l U12	d&N

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBæ r p l Dtas	LB126466	n &Dt8iCtas	P8Nu 8m
L8l a38p &mDaSTaaa	S0 3 - B7 6	S Ntr p . Diæ 8p Das	b l
0 mD. ia38p &mDaSTaaa	S0 3 - B7 6	Tqmic. aV8diCtas	1
T8iDaAacqp Da dCrqDoas	272: J7 J14a14sw7s2l	T8i8MqDae 8p Das	71FS0 3 Blo

b8t8p DiDt	5 8NN	0 b 3 1	0 b 3 2	0 b 3 :	0 b 3 5 D8.	0 b 3 9 3 T	R. qN
V8. 8oqp	w1J2	2: w. 6	2: 6w.	242F4	2: l 2l	1U 1	d&N
YiiDtl qp	1 2J1	177	wl	177	l 6	2 UF4	d&N
YiiDtl qp	1 2J2	2l	: F	44	:	22UF1	d&N
YiiDtl qp	1 6J1	l 42	Fl :	F w	F: :	l UW2	d&N
YiiDtl qp	1 6J2	Fl 26	F6w4	Fl :	F 2	1U7w	d&N
Yiitqp	l FJ1	11474114	114w1477	11 4 l F7	11w. 446l	1U62	d&N
Yiitqp	l FJ2	127F2: 4	11F: 4l 4	1217272	1274: 7	7U l	d&N
Zq d	66J2	l 4l :	l 1l 6	l 4F:	l : l	2U7l	d&N
ZqdC. qp	F7J1	w42	w w	6w7	wl F	FU42	d&N
ZqdC. qp	F1J1	1wl	1w7	21	1 w	27U6	d&N

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJber plDa	LB126466	. &lDÆFDa	wlP8lN
LlpJtlr &NJTJaJ	SS032-	TUPAder UlAblrlJa	um
SNlUAtlr &NJTJaJ	SS032-	idNÆFUJRloÆFDa	1
ilAJcJqdrlJOonedDCJa	2327 3: 14J14as7a21	ilARdNJblrlJa	323SS0NC

ulDrlAD	9lPP	Sut 1	Sut 2	Sut 7	Sut 9lIU	Sutyti	5UdP
ONerdUder	2: 2	211: 166	237s27s	223m242	2123214	4M3m	o&P
OUAtFUh	121 1	2: -742m	2: 4s: 37	2: m 7: 7	2: : ss31	3M4	o&P
ODPlUdb	: s 2	: 74- -	: 2634	: 2716	: 2m36	3Mms	o&P
BlDder	17s 1	73661: 2	73: 6324	737: 336	73s- : 74	3M06	o&P
BlDder	17: 1	s2m2764	s2s1476	s1342m8	s2126- 7	1Mm7	o&P
BlDhNder	- 1	6- m43s	: 33m1m	6- 2sm+	6- : 2: 1	3M61	o&P
BdPr eÆE	23- 1	s: 23163	s433717	s2634s1	s46373m	4M72	o&P
BdPr eÆE	23- 2	266: 434	2s: m 3m	261s: m8	2623671	1M3	o&P
BDFr dUl	m1 1	42m4	473-	471:	4734	3M43	o&P
SlOr der	13m1	s4s4s	ss4s:	s4236	s4: 76	1M1m	o&P
SlOr der	136 1	: : 66-	: m s3	: 6s: -	: : 666	1M43	o&P
SlOr der	111 1	6m1m6:	: 36313	6- 1443	6- 7136	1Ms	o&P
SlNder	47 1	413673s	43m4314	437: 6m	43: 6332	3M76	o&P
SlNder	44 1	6sss43mm	6666: s: -	64- 6- 4m+	6s: 737ms	1M71	o&P
SlDpFU	12 1	713ms4:	71: 777:	71s- : 76	714: 23:	1M-	o&P
SlDpFU	12 2	4366s	41474	41774	41144	1M32	o&P
SENFDUl	7s 1	4s3m4: s	41- m4m6	4336m64	427: - 41	sM:	o&P
SENFDUl	7s 2	244mm	27: - s	2711-	27m81	2Mm	o&P
SEDFr der	s2 2	: m 342	: 67: 14	: s- 6- s	: : 31s3	1M2	o&P
SFplMA	s- 2	142mm22	176m6m+	174mm24	17m2112	7M31	o&P
SF&&lD	67 2	112m2- 14	11214211	111- 271m	1122- m1s	3M42	o&P
i hP&DFPder	1s6 1	642	: 77	m83	: 2s	13M6	o&P
i hP&DFPder	1s6 2	713	2m8	2: :	2m+	6M76	o&P
GDpder	164 1	1s3	1m7	1sm	164	13M-	o&P
GDpder	164 2	47	s3	43	44	11M46	o&P
HlCFNUder	163 1	sm7	6- 2	: 33	6sm	- Mm+	o&P
HlCFNUder	163 2	4m7	4s7	467	46:	7M2:	o&P
KFNder	16s 1	m+ 7722:	ms422- 4	m422131	m672s41	7M13	o&P
KFNder	16s 2	76mm+ 2m	7: 1m1s3	76m+ 1m	76- m ss	3M4s	o&P
TUCder	11s 1	67m7632	676: : 33	6371: 77	6261311	7M1:	o&P
TUCder	11s 2	m4m712	m712m1	m7: 164	m7m+ 1-	1M37	o&P
TDFU	s4 2	m 33: 33	m663- 3s	ms7213m	m67127m	1M32	o&P
TDFU	s6 2	1s- m7- - 1s	1s774: 226	1s: 6ss- 1s	1s6- 4: 6ms	2M11	o&P
TDFU	s: 2	43s4s2m	7- 37m2:	7- 4: : - :	7- 6m 1m	1Ms	o&P
gDh&ÆFU	m7 1	263	2m8	264	26m	7M:	o&P
LlIC	236 1	122sm42m	11m2m+ 36	11- 24311	12337: m2	1Mm	o&P

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Inst Id :P8

LBJber plDa	LB126466	. &lDAFDa	wlP8lN
LlpJtlr &NJTJaJ	SS032-	TUPAder UlAblrlJa	um
SNlUAtlr &NJTJaJ	SS032-	idNAFUURloAFDa	1
ilAJcJqdrlJOonedDCJa	2327 3: 14J14as7a21	ilARdNJblrlJa	323SS0NC

ulDrlAD	9lPP	Sut 1	Sut 2	Sut 7	Sut 9lIU	Sut yti	5UdP
LlIC	23: 1	132-m81-	13217m2:	13117--4	1323m617	3M3	o&P
LlIC	23m1	4m17142s	4:2--s41	4:2m s2:	4:s:2m71	1M2	o&P
LdAEder	6 1	24s1-s6	2s3m:6	2776-36	2472s46	7M3	o&P
9lkUlPder	24 2	2--616-3	7332312-	7322s3-1	7336m+:3	3M6	o&P
9lUklUlPl	ss 2	7-2s13:	7-7s:3m	7-s1m7m	7-7:ss1	3M4	o&P
9FNpClUer	-4 1	-:3:s21	-s67-41	-ss2s6:	-63m813	3M3	o&P
9FNpClUer	-s 1	143-:7s-	147m1-23	143m 3-6	141mm-2	1M1m	o&P
9FNpClUer	-6 1	1s:17:27	1s:134s3	1ss71s1-	1s6s1m+m	3M0:	o&P
9FNpClUer	-: 1	m6:-116	msm+:27	m61s2ms	m62m841	3M7	o&P
9FNpClUer	-m1	2717m81s	2727s731	2733:ss-	27126-sm	3M4-	o&P
blFChrder	1s3 1	2:7	1m	26:	242	1-M1	o&P
blFChrder	1s3 2	43	47	43	41	4M0m	o&P
bdbvlN	63 2	7:3136	76:s3-	76:4-6	76m7:3	3M1	o&P
uEFP&EFDeP	71 2	212--	21:3-	216s3	21ss7	1M7	o&P
uFAPPder	7- 2	-424m m	-3-6:-7	-21s72:	-24s666	1M8	o&P
yEFCder	137 1	6232:2:	63m11:1	s:62-21	631s636	7Mm	o&P
yEFCder	137 2	2:2s6-4	26m7272	26sms:1	26m+166	1M6	o&P
tolUCder	4s 1	474:1m2	42m7663	43-42-3	4241:11	7M3	o&P
tolUCder	4s 2	1732-1	173641	171m+:	173-47	3M4	o&P
tlNUder	m2 1	4-2mm	4-413	4m62s	4-13m	3M6	o&P
tlNUder	:: 2	1ss7	144:	1s3:	1s32	7M6	o&P
tlNUder	:m2	4-2-	s34s	4:m+	4-21	2M1	o&P
tdbFU	2m1	1-s-m74	232:47-	23767:6	233:mm7	2M3m	o&P
tdNlD	13: 1	7447--2	74-624-	747sm+1	74sm 13	3Ms	o&P
tdNlD	13- 1	777-1-7	77::4m8	7722213	77462-4	3Mms	o&P
tFder	27 2	s7-663--	s27s--s:	s716mmm	s7164-m1	1M1	o&P
tADFUder	m6 1	23116:-:	2316s34m	1-m811s:	2332:66:	3M-	o&P
tADFUder	mm1	1:3m2322-	1:7--m87:	1:3sm+72s	1:1m82s73	1M1	o&P
teNeD	74 1	6264-2	626422	624-14	62s-47	3M4	o&P
qlDder	1s- 1	m+112ss	mmm1s33	m616222	mm82--2	1Mms	o&P
qlDder	1s- 2	761mm1m	7s-26m6	7s646s6	7s-23s7	3Ms	o&P
qElNder	237 1	2-37444	2m23672	2m612m	2m61:mm	1M4s	o&P
qElNder	23s 1	6m6s-37	6s66sm8	6:4m117	6:26m6s	2M4	o&P
qdU	11m1	22461m6	22-sm1:	21ms732	224247s	2M4:	o&P
qdAUder	4: 1	7m6m226	7-24447	7::114m	7ms463s	2M1	o&P
5DUder	27m1	-:31s12	-ss4m11	-711s2s	-s22616	2M3:	o&P

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Inst Id :P8

LBJber plDa	LB126466	. &lDAFDa	wlP8lN
LlpJtlr &NJTJaJ	SS032-	TUPAer UlAblrlJa	um
SNlUAtlr &NJTJaJ	SS032-	idNAFUURloAFDa	1
ilAJcJqdrlJOonedDCJa	2327 3: 14J14as7a21	ilARdNJblrlJa	323SS0MC

ulDrlAD	9lPP	Sut 1	Sut 2	Sut 7	Sut 9lIU	Sut yti	5UdP
0lUlCder	s1 2	s--s61	s-7s3:	s-6627	s-6s64	3M41	o&P
YAAlpder	1:2 1	12s	11:	177	12s	6M0:	o&P
YAAlpder	1:2 2	:m	136	6:	m7	24M34	o&P
YAAlpder	1:6 1	17343	12-m2	173:4	17372	3M76	o&P
YAAlpder	1:6 2	146:s	14:76	14s64	146sm	3M63	o&P
YAAder	m- 1	12317463	11-ss136	1123mm22	11:2s:-6	7M17	o&P
YAAder	m- 2	11s676-	117:s4-	11s-313	11s3-:6	1M32	o&P
ZdUo	66 2	17s2s::	1727-ms	171-61m	1772363	1M74	o&P
ZdoFUder	-3 1	4:2716:	4-2326s	46663m-	4:6-m43	2M18	o&P
ZdoFUder	-1 1	137sm22	132-sm6	13222:4	132-22:	3M06	o&P

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T:J	SSB023	&Fl ilbe Fpi:mwe p:J	Nu
S8pFi:Dwe t 8p:&T:J	SSB023	T8piq F:RwO. I:J	1
Twip:A:cqe p:dOobdpn:J	202-70 714:14Ja6J03	TwiwR8p:mwe p:J	021SSBUM1

Nwlwe pipl	9 wl l	SND1	SND2	SND-	SND9 pwF	SNDy DT	5 Fql
d8be qFdpe	2 72	213	260	134	224	14M32	Qtl
dFiqe . Fh	12171	1--4	1600	1a0u	14u1	3M1a	Qtl
dIl pFqO	a72	3	u		u	12M40	Qtl
Bwldpe	1-a71	6a3	---	2--	40u	a4M1-	Qtl
Bwldpe	1- 71	300	40u	a00	60-	4-Mu	Qtl
Bplh8dpe	371	164	16	1-a	1aa	11M44	Qtl
Bdqe biE	20371	a44uu61	aa 23a0	a61344	aa4 0u6	1M43	Qtl
Bdqe biE	20372	2u6aa4-	230326-	236363u	2314u-a	1M3	Qtl
Bl. e qFp	u171	-6a3	-632	- a1	- 01	1M2a	Qtl
Swne dpe	10u71	46	21	21	23	43M43	Qtl
Swne dpe	10671	-46	-a 6	-601	-a4u	2M0	Qtl
Swne dpe	11171	2a-	2622	264-	2601	2M1	Qtl
Sw8Qdpe	4-71	1	a	a60	6-6	1uM1-	Qtl
Sw8Qdpe	4471	a 24	a4 33	a2 3-	a4346	4M06	Qtl
Swlr . F	1271	261- 6-	2a312 2	2a330u3	2601- a	0M44	Qtl
Swlr . F	1272	-0424	23-4	-04 4	-00u1	2M12	Qtl
SE8 lqFp	-a71	242 2 -	2-- -63	22u 626	2-a0 a6	-M01	Qtl
SE8 lqFp	-a72	1a042	14066	1-u33	14--a	4M1	Qtl
SEl. e dpe	a272	11-0	122-	101-	1122	3Mu	Qtl
S. r w8	a372	3	110		34	1 M6	Qtl
S. t t pl	6-72	2204	21a4	13-	203u	6M6	Qtl
Thl t l. l dpe	1a671	0	0	u	-	1 -M21	Qtl
Thl t l. l dpe	1a672	-	10	-	6	63M4	Qtl
Ulr dpe	16471	au	2a	a	a-	4uM24	Qtl
Ulr dpe	16472	20	2-	a	--	60M4	Qtl
Gwn. 8qFdpe	16071	a0	a0	u-	61	-1M40	Qtl
Gwn. 8qFdpe	16072	11-	1--	30	112	13M-	Qtl
H. 8e dpe	16a71	3a4634	u02- 1	u21 4a6	u06a2u3	1M03	Qtl
H. 8e dpe	16a72	- 202a6	-ua214-	-31662u	-u236 6	2M61	Qtl
&Fndpe	11a71	a333-43	6a061u6	61u4u24	62-0120	4M12	Qtl
&Fndpe	11a72	320244	32- u1	3-a3-4	3266a-	0M3	Qtl
&. F	a472	3a	1006	6u3	u-0	13M44	Qtl
&. F	a672	1131	121 3	u2u1	10 32	20M13	Qtl
&. F	a 72	2u-	-06	-1	-02	aM62	Qtl
KIht i. F	u-71	-02	2 4	23a	230	aM14	Qtl
Lpwn	20671	2323	2a11	21u4	2a41	14M03	Qtl

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	SSB023	&Fl ilbe Fpi:mwe p:J	Nu
S8pFi:Dwe t 8p:&T :J	SSB023	T8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	202- 70 714:14Ja6J03	TwiwRq8p:mwe p:J	021SSBUM1

Nwlwe pipl	9 wl l	SND1	SND2	SND-	SND9 pwF	SNDy DT	5 Fql
Lpwn	20 71	21 2	243a	1 61	214-	1 M16	Ol l
Lpwn	20u71	104u0	10au0	ua12	3uau	11M-	Ol l
LqiEdpe	671	2- 426aa	242 a- 1	24 10u0	241- aa	2M1	Ol l
9 wgFpl dpe	2472	14a3	1- 32	3 a	12 a	20Mla	Ol l
9 wFgwFpl p	aa72	2- 0	21	2- -	22	- M3	Ol l
9 . 8hr npFbe	3471	20 a	1a- 4	1632	1 6	1aM6	Ol l
9 . 8hr npFbe	3a71	- - 4-	2 1	20 a	2 12	2- M	Ol l
9 . 8hr npFbe	3671	2aa0	2403	2642	2a- 4	4M04	Ol l
9 . 8hr npFbe	3 71	1a6	1a32	1- 32	1a1	M1u	Ol l
9 . 8hr npFbe	3u71	- 36	4- ua	- 401	- 31u	12M61	Ol l
mp. nhe dpe	1a071	20	0	1-	11	31M06	Ol l
mp. nhe dpe	1a072		0		4	u6M60	Ol l
mqOkp8	6072	0	30	a0	0	2uM4	Ol l
NE. l t E. lbl	- 172	1a0	1- -	142	142	aM1u	Ol l
N. iwl l dpe	- 372	1 - - 6	16 10	16410	16u1u	2M11	Ol l
y E. ndpe	10- 71	606 - 24	62u1- 4	623a4	6214 2a	2M06	Ol l
y E. ndpe	10- 72	- 010- 42	236433-	23u40- 6	23u64a	0M6	Ol l
DOwFndpe	4a71	410a203	4030010	4142- 0-	4112a0	0M6a	Ol l
DOwFndpe	4a72	1- - u	1- 633	1420u4	1- 31 4	1M11	Ol l
Dp8pFdpe	u271	723	710	74-	72	760M24	Ol l
Dp8pFdpe	72	0	-	0	1	1 - M21	Ol l
Dp8pFdpe	u72	16	13	13	1u	3M62	Ol l
Dqp8O F	2u71	2- 060	2- 436a	2- 4- 2-	2- a443	0M61	Ol l
Dq8vpl	10 71	- a0	232	- 2a	- 22	3M0u	Ol l
Dq8vpl	1037 1	- 0u	1- -	2au	2- -	- uM6-	Ol l
D. ndpe	2- 72	4 - - 6	46360	4- 666	4a3u	4M3	Ol l
Dil. Fidpe	u671	2aa3	2- 32	13- 4	223a	14M11	Ol l
Dil. Fidpe	uu71	161a4	1a106	1- u-	1a014	M31	Ol l
Db8bl	- 471	- 40u1	- 4416-	- 401u6	- 41 22	0M6-	Ol l
cplr dpe	1a371	u10- 4 2	uaa306u	u- u- 4a6	u- 4u66a	2Ma	Ol l
cplr dpe	1a372	- - 6u3	- aaaa	- - 4 - -	- 43- 2a	0M61	Ol l
cEw8bpe	20- 71	16au	1a42	1- - -	1a11	10M30	Ol l
cEw8bpe	20a71	- 301	40 6	- a26	- u- 4	M-	Ol l
cqF	11u71	12- -	106	3a0	10u-	1- Mla	Ol l
cqiwFdpe	4 71	u0u	600	4 a	62u	26M-	Ol l
5 lwFdpe	2- u71	100u	31	a0u	u11	- 2M12	Ol l

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LB:mbe r pI:J	LB126466	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	SSB023	&Fl ilbe Fpi:mwe p:J	Nu
S8pFi:Dwe t 8p:&T :J	SSB023	T8piq F:RwO. I:J	1
Twip:A:cpe p:d Qobdpn:J	202- 70 714:14Ja6JD3	TwiwR8p:mwe p:J	021SSBUM1

Nwlwe pipl	9 wl l	SND1	SND2	SND-	SND9 pwF	SNDy DT	5 Fdl
VwFwndpe	a172	1	a0	- -	- -	a0M00	Ctl
Yiiplr dpe	1 271	42	au	au	a-	1uM4-	Ctl
Yiiplr dpe	1 272	11	- 3	2u	26	a- M3-	Ctl
Yiiplr dpe	1 671	10a0	1042	1042	104a	0M46	Ctl
Yiiplr dpe	1 672	363u	3a- 1	100u	3 2	2M32	Ctl
Yiildpe	u371	11162313	11- - 0 3-	11au 636	11- 60463	1M1u	Ctl
Yiildpe	u372	1203461	1134- 1	122u1 2	121066u	1M40	Ctl
ZdFO	6672	23	- a0	- 4	- - 1	3M02	Ctl
ZdQ Fdpe	3071	32	ua0	3a0	u64	3M4	Ctl
ZdQ Fdpe	3171	21	2- -	132	214	3M11	Ctl

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	279	425	425	376	22.44	cps
Antimony	121-1	317	258	358	311	16.15	cps
Arsenic	75-2	8	6	9	8	19.92	cps
Barium	135-1	50	50	75	58	24.74	cps
Barium	137-1	125	100	158	128	22.91	cps
Beryllium	9-1	87	76	74	79	9.25	cps
Bismuth	209-1	5672100	5297019	5497215	5488778	3.42	cps
Bismuth	209-2	2766592	2818926	2928580	2838032	2.91	cps
Bromine	81-1	4084	3776	4101	3987	4.59	cps
Cadmium	108-1	25	29	29	28	8.67	cps
Cadmium	106-1	3442	3142	3317	3300	4.57	cps
Cadmium	111-1	2434	2208	2335	2326	4.86	cps
Calcium	43-1	285	237	224	249	12.92	cps
Calcium	44-1	47603	47516	46802	47307	0.93	cps
Carbon	12-1	2569854	2557051	2528695	2551867	0.83	cps
Carbon	12-2	30123	31142	30708	30658	1.67	cps
Chlorine	35-1	1614714	1553056	1517997	1561922	3.13	cps
Chlorine	35-2	10246	9211	9387	9615	5.76	cps
Chromium	52-2	1050	1043	1200	1098	8.07	cps
Cobalt	59-2	30	97	143	90	63.29	cps
Copper	63-2	1427	1647	1537	1537	7.16	cps
Dysprosium	156-1	17	8	8	11	43.34	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	67	25	83	58	51.51	cps
Erbium	164-2	20	47	20	29	53.30	cps
Gadolinium	160-1	108	42	50	67	54.49	cps
Gadolinium	160-2	110	140	117	122	12.89	cps
Holmium	165-1	8253993	7771085	8055063	8026714	3.02	cps
Holmium	165-2	3748739	3752969	3798668	3766792	0.74	cps
Indium	115-1	6531723	5958645	6189686	6226685	4.63	cps
Indium	115-2	900987	900331	897302	899540	0.22	cps
Iron	54-2	1100	1156	1161	1139	2.95	cps
Iron	56-2	9617	14564	18363	14181	30.93	cps
Iron	57-2	217	544	444	402	41.80	cps
Krypton	83-1	257	267	246	257	4.14	cps
Lead	206-1	1195	1078	1017	1096	8.24	cps

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Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1033	1072	928	1011	7.39	cps
Lead	208-1	4612	4573	4189	4458	5.24	cps
Lithium	6-1	2568539	2344199	2419320	2444019	4.67	cps
Magnesium	24-2	892	1784	1708	1461	33.85	cps
Manganese	55-2	160	200	207	189	13.36	cps
Molybdenum	94-1	375	275	267	306	19.73	cps
Molybdenum	95-1	333	267	325	308	11.78	cps
Molybdenum	96-1	467	383	475	442	11.48	cps
Molybdenum	97-1	225	217	250	231	7.52	cps
Molybdenum	98-1	675	433	542	550	22.01	cps
Neodymium	150-1	0	0	13	4	173.21	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	50	67	73	63	18.98	cps
Phosphorus	31-2	83	125	167	125	33.33	cps
Potassium	39-2	15434	15392	15425	15417	0.14	cps
Rhodium	103-1	6456964	5763314	6172295	6130858	5.69	cps
Rhodium	103-2	2977105	2960424	2996095	2977875	0.60	cps
Scandium	45-1	4335098	3888275	4051119	4091497	5.53	cps
Scandium	45-2	136485	136138	136838	136487	0.26	cps
Selenium	82-1	19	21	-3	13	104.40	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	12	18	17	16	20.52	cps
Silicon	28-1	222042	222473	221813	222109	0.15	cps
Silver	107-1	308	183	217	236	27.42	cps
Silver	109-1	183	192	142	172	15.56	cps
Sodium	23-2	38401	39906	37850	38719	2.75	cps
Strontium	86-1	725	458	775	653	26.08	cps
Strontium	88-1	2117	1375	1350	1614	26.99	cps
Sulfur	34-1	353058	351481	352358	352299	0.22	cps
Terbium	159-1	8938472	7825211	8139120	8300934	6.91	cps
Terbium	159-2	3682870	3687232	3644950	3671684	0.63	cps
Thallium	203-1	900	917	750	856	10.73	cps
Thallium	205-1	2059	1934	2167	2053	5.69	cps
Tin	118-1	833	850	1017	900	11.27	cps
Titanium	47-1	158	258	183	200	26.02	cps
Uranium	238-1	42	58	50	50	16.67	cps

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Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	37	23	26	39.85	cps
Ytterbium	172-1	75	58	58	64	15.06	cps
Ytterbium	172-2	33	17	11	20	56.76	cps
Ytterbium	176-1	1058	1067	1025	1050	2.10	cps
Ytterbium	176-2	9587	10015	9581	9728	2.56	cps
Yttrium	89-1	11761837	10528294	11194414	11161515	5.53	cps
Yttrium	89-2	1207383	1183344	1216580	1202436	1.43	cps
Zinc	66-2	240	233	227	233	2.86	cps
Zirconium	90-1	442	433	433	436	1.10	cps
Zirconium	91-1	100	83	75	86	14.78	cps

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LBamber plas	LB126466	n DplI TClas	wI P8I N
LI r a l e DNpla&aaa	SB1043-7B	t. PTIbe . pTamI e pas	Su
FNp. Ta l e DNpla&aaa	LF 3-7	&dNTC. aRI dTClas	1
&I Tpai aAce paqdCbdpoas	232-:3J:14a10s32s14	&I T RdNpamI e pas	32-LF UMd

SI lI e pTpl	9 I PP	FS 1	FS 2	FS -	FS 9pl .	FS y &	5. dP
qNbe c dbe	2J:2	10-2	14-7	146J	14J7	-M20	dDP
q. Tde C. h	121:1	1J3-6	1J111	16732	1J31J	3M62	dDP
qIPp. cd	J0:2	2-0	21-	243	227	6M2J	dDP
BI ldbe	1-0:1	1u41-	1u36-	1Ju27	1u131	1M62	dDP
BI ldbe	1-J:1	-122u	-2-4u	-176-	-1u46	1M7	dDP
BplhNbe	7:1	2432	246J	2--2	2431	2M1	dDP
BdPe bTE	237:1	0J64u-7	0-u7JJu	00u12J6	00Ju6-1	-M6	dDP
BdPe bTE	237:2	2uJ00-J	271uJ44	27427-3	271243-	1M1J	dDP
BIOe c p	u1:1	-J-4	4126	-7u4	-74u	0M3-	dDP
FI oe dbe	13u:1	172	233	234	177	-M23	dDP
FI oe dbe	136:1	-u37	-6-4	-6J6	-J36	2M4J	dDP
FI oe dbe	111:1	4u77	4662	4J-3	4J64	2M06	dDP
FI Ndbe	4-:1	12634	12027	126JJ	1263-	3M07	dDP
FI Ndbe	44:1	24473-	2462u2	246643	240742	3MJ	dDP
FI lr C.	12:1	2004-13	2064013	20-u16-	2002-2u	3M02	dDP
FI lr C.	12:2	-3uu-	-3u77	-130u	-374J	3M1	dDP
FENOIc p	-0:1	11uJ421	11J2u6-	1162010	11J4266	1M3J	dDP
FENOIc p	-0:2	J632	JJ17	J4-0	J0u6	1Mu	dDP
FEIOe dbe	02:2	622u	6--0	6440	6--6	1M1	dDP
FOrI NT	07:2	4JJ4	4J71	4J4u	4JJ1	3M46	dDP
FODDpl	6-:2	uJ06	uJ07	uJ47	uJ00	3M36	dDP
&hPDIOPbe	106:1	1J	3	1J	11	u6M03	dDP
&hPDIOPbe	106:2	3	-	-	2	u6M03	dDP
UIr dbe	164:1	1J	1J	0u	-1	JuM1	dDP
UIr dbe	164:2	2J	-J	2-	27	24M3-	dDP
GI oONd dbe	163:1	42	133	0u	6J	40M3J	dDP
GI oONd dbe	163:2	7J	13-	10-	11u	26M3	dDP
HONe dbe	160:1	u4JJ-Ju	Ju6J243	u2-714-	u1740uJ	-M0	dDP
HONe dbe	160:2	-u63433	-713272	-u7JJ6u	-uu74uJ	3M3J	dDP
t. odbe	110:1	6004u1u	610u26J	6-42736	6-0177J	-M2	dDP
t. odbe	110:2	71u7-0	7270J2	7-4034	72J6J3	3M6	dDP
tIC.	04:2	24234	24337	241J1	2412u	3M4-	dDP
tIC.	06:2	4-266u	42J1-2	427J62	427u04	3M04	dDP
tIC.	0J:2	13060	13u-2	137JJ	13J71	1M7-	dDP
KIhDTC.	u-:1	20J	-14	2u1	2u4	7M74	dDP
LpI o	236:1	u3-6	u63-	u-0u	u--2	-M41	dDP

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LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	SB1043-7B	t. PTlbe . pTamle pas	Su
FNp. Ta l e DNpla&aaa	LF 3-7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	232-:3J:14a10s32s14	&l Tl Rdpamle pas	32-LF UMd

Sl lle pTpl	9 l PP	FS 1	FS 2	FS -	FS 9pl .	FS y &	5. dP
Lpl o	23J:1	J641	67-0	JJ20	J4-4	0M-	dDP
Lpl o	23u:1	- - 3-7	- - 240	- - 012	- - 260	3M1	dDP
LdEdbe	6:1	2022432	2-4u406	24J67u6	24472u1	-Mu	dDP
9 l g. pPdbe	24:2	132J3-	1326-6	131-63	1322- -	3M4	dDP
9 l . gl . pPp	00:2	1463	14-3	143-	14-1	1M7u	dDP
9 CNr op. be	74:1	1J762	1J0J3	1u3-J	1Ju06	1M3	dDP
9 CNr op. be	70:1	21-6J	21707	226-6	217uJ	2M7	dDP
9 CNr op. be	76:1	24J-1	24u0J	24J4u	24JJu	3M2u	dDP
9 CNr op. be	7J:1	1-42-	14324	1-336	1-4u0	-M7	dDP
9 CNr op. be	7u:1	-4u40	-6u26	-03u6	-00u6	-M4	dDP
mpCohe dbe	103:1	3	3	1-	4	1J-M1	dDP
mpCohe dbe	103:2	3	3	3	3	3M3	dDP
mdkpN	63:2	1-13	1-u3	1-J-	1-00	2M0	dDP
SECPDECIbP	-1:2	120	16J	J0	122	-JM0	dDP
SCTl PPdbe	-7:2	J63-4	J6730	J0-22	J63uJ	1M4	dDP
y ECodbe	13-:1	6407742	0713360	6- - J31J	62-06J0	4M-	dDP
y ECodbe	13-:2	-311673	27uu464	-367327	-32-361	1MJ	dDP
dl . odbe	40:1	4-133uu	-7-21u7	41uJ671	414- - 2-	4M0	dDP
dl . odbe	40:2	1-Ju-J	1-7Ju-	1434J4	1-7-60	3M7u	dDP
pNp. dbe	u2:1	u30	J7J	JJ7	J74	1M3	dDP
pNp. dbe	JJ:2	43	- -	2J	- -	23M3	dDP
pNp. dbe	Ju:2	124	74	7u	130	10M6	dDP
dNdC.	2u:1	2u6433	2u07uJ	2u0403	2u0746	3M1J	dDP
dNpl	13J:1	113-u	13700	11-uu	1112J	2M3J	dDP
dNpl	137:1	13J46	11-00	13404	13u02	4M4	dDP
Codbe	2-:2	211-J6	211Ju3	2123J3	211J42	3M6	dDP
TC. Tdbe	u6:1	4337	-272	- - u4	-062	13M6	dDP
TC. Tdbe	uu:1	2u133	26413	24J06	26422	6M-	dDP
bNbl	-4:1	-0uu02	-02476	-07201	-06u66	1M6	dDP
Apl r dbe	107:1	uu02J63	J76-u-4	u4u4J4-	u4- - JJ7	0M3	dDP
Apl r dbe	107:2	-J-44JJ	-J27014	-J741-2	-J02J3J	3M6	dDP
AEl NNbe	23-:1	7423	7u12	7240	747-	-M6	dDP
AEl NNbe	230:1	23731	22111	22J46	21717	4M2u	dDP
Ac	11u:1	73u	70u	uJ0	714	4M7	dDP
AdT . dbe	4J:1	6u13	J313	6202	6671	0Mu	dDP
5 ll . dbe	2-u:1	2u310	2u43u	27-1u	2u0u3	2M4	dDP

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LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	SB1043-7B	t. PTlbe . pTamle pas	Su
FNp. Ta l e DNpla&asa	LF 3-7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	232-:3J:14a10s32s14	&l Tl Rdpamle pas	32-LF UMd

Sl ll e pTpl	9 l PP	FS 1	FS 2	FS -	FS 9pl .	FS y &	5. dP
Vl . l odbe	01:2	763-	7764	70J-	7J1-	2M24	dDP
YTpIr dbe	1J2:1	0u	11J	--	67	61M07	dDP
YTpIr dbe	1J2:2	11	--	22	22	03M03	dDP
YTpIr dbe	1J6:1	13u-	13J0	1172	111J	0M1-	dDP
YTpIr dbe	1J6:2	7u07	76uJ	777u	7u4u	1M0u	dDP
YTTdbe	u7:1	11703647	11114u12	114434J7	110317u3	-M06	dDP
YTTdbe	u7:2	121-23J	1223212	12-1u11	1221J44	3MJJ	dDP
Zc d	66:2	220J	2463	2424	2-u3	4M00	dDP
ZddC. dbe	73:1	14u--	100J6	102u4	102-1	2M46	dDP
ZddC. dbe	71:1	--33	-26J	--J6	--14	1M0J	dDP

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LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-71	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh6	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J73J1a	&wTwUd8 :u wb r :J	724q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	1 07	166h	16h2	16h	1M42	dDl
qCTb nCE	121-1	h7a	ha0	a37	h14	M01	dDl
qpl r Ccl	3-2	2a	06	07	01	10M2h	dDl
Bwpcmb	103-1	2hh23	07126	01112	070aa	2M7h	dDl
Bwpcmb	10 -1	32 62	30 24	34a70	30 60	1M17	dDl
Br pE8mb	h-1	1 4	1a1	1a4	1a7	2M17	dDl
Bdl b mTG	27h-1	33h 72h	34333a3	3440hh3	34haa 7	1M33	dDl
Bdl b mTG	27h-2	2a14 4	2a16074	2a7h 71	2a103a4	7M12	dDl
Bpmb cCr	a1-1	1306	1aa46	2704h	1a1a	14M73	dDl
5 wob cmb	17a-1	2h	2h	2h	2h	7M17	dDl
5 wob cmb	176-1	0331	023h	0326	0443	4M0h	dDl
5 wob cmb	111-1	2311	2072	2372	240a	4M40	dDl
5 w8lcmb	40-1	22a73	203240	20217h	201a70	1M33	dDl
5 w8lcmb	44-1	0h47h77	0h711 4	4716260	0h32 h	1M4a	dDl
5 wpenC	12-1	0412676	0 1 hh2	0h1213	06a7h1a	6M44	dDl
5 wpenC	12-2	4ha2	4h037	37 10	4hh60	1M0a	dDl
5 G8hpCr	03-1	116171	11 2432	11 462a	116h066	7M60	dDl
5 G8hpCr	03-2	a061	h32	a6h	a761	0M2	dDl
5 Gpmb cmb	32-2	2	a0h	a166	h26	2M06	dDl
5 new8T	3h-2	07	6h	a0	0	3M10	dDl
5 nDDr p	60-2	2317	231	2674	2344	2M73	dDl
&El Dpnl cmb	136-1	223	077	21	24	1aM3	dDl
&El Dpnl cmb	136-2	140	130	11	10a	10M6	dDl
Fpecmb	164-1	1a0	423	042	01	0aM	dDl
Fpecmb	164-2	10	h	107	121	1 M0h	dDl
Hwon8Cmb	167-1	423	042	042	06h	10M72	dDl
Hwon8Cmb	167-2	010	227	237	261	1aM23	dDl
y n8b cmb	163-1	a7 3210	a706 41	a7000 6	a74a440	7M2h	dDl
y n8b cmb	163-2	0a2212	0 00333	0 4h20a	0 6a07	1M23	dDl
tCocmb	113-1	6124222	601762a	67h0067	61 67 7	1M17	dDl
tCocmb	113-2	ah44ah	aa637a	ah 00	ah2 a	7M60	dDl
tpnC	34-2	24416	20 3h	243	24237	1Mh	dDl
tpnC	36-2	40a 1a	40a303	40246	4063 0	7M41	dDl
tpnC	3 -2	11aa0	11766	11a0a	113h6	0M16	dDl
KpEDTnC	a0-1	2h3	2a7	206	2 7	11M2h	dDl
Lr wo	276-1	2477	23a4	23 0	231h	4M7a	dDl

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LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-71	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh6	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2720-7 -14:13J73J1a	&wTwUd8 :u wb r :J	724q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	27 -1	2176	222a	1h2a	27a	M20	dDl
Lr wo	27a-1	h460	1706a	ha3	hah6	4M3h	dDl
LdTGmb	6-1	2443a17	240701	2412410	242h310	7M0h	dDl
9 wgCr l mb	24-2	0326 6	036312	0367h2	0337h0	7M3h	dDl
9 wCgwCr l r	33-2	h647	h270	h407	h424	2M02	dDl
9 n8Eeor Cmb	h4-1	2442	2623	266	23 a	4M04	dDl
9 n8Eeor Cmb	h3-1	0 04	0 42	036	06a1	2M0a	dDl
9 n8Eeor Cmb	h6-1	0a1	0h71	0a26	0a4a	1M1h	dDl
9 n8Eeor Cmb	h -1	201	226	201	2077	1M23	dDl
9 n8Eeor Cmb	ha-1	3h03	616a	3h17	6774	2M0	dDl
u r noEb cmb	137-1	3h0	67	300	3 a	6M6	dDl
u r noEb cmb	137-2	130	1	13	162	Ma	dDl
u cdkr 8	67-2	12a	102	10h0	1006	4M70	dDl
NGhl DGhpml	01-2	27a	137	137	16h	1hM4a	dDl
NnTwl l cmb	0h-2	142727	10h73h	147464	147313	1M73	dDl
. Ghocmb	170-1	620h034	616302h	67ha2a	616 63	1M14	dDl
. Ghocmb	170-2	2h1267	2h21110	2h20h66	2h1h22h	7M27	dDl
l dwCocmb	43-1	47 4313	471a1a7	414aahh	47a7301	1M61	dDl
l dwCocmb	43-2	102622	102142	103110	1002h2	1M27	dDl
l r 8 Ccmb	a2-1	-0	-3	4a	10	222M12	dDl
l r 8 Ccmb	-2	7	7	7	7	7M77	dDl
l r 8 Ccmb	a-2	11	1a	24	1a	06M40	dDl
l 8dnC	2a-1	12443647	12h11ha	12616621	1263a7a0	1M46	dDl
l 8vr p	17 -1	13a	42	3	h2	63M36	dDl
l 8vr p	17h-1	3	3	42	64	07M12	dDl
l nocmb	20-2	20202 2	2047132	20 03h	2046h2	1M1a	dDl
l TpnCTcmb	a6-1	17310	117200	111017	17aah0	0M70	dDl
l TpnCTcmb	aa-1	h7413h	h32366	h4061a	h0044a	2M6	dDl
l m8mp	04-1	46063	43a33h	431441	43 aa6	1M04	dDl
Ar pecmb	13h-1	a2h1a02	a02 644	a1h7043	a26hh47	7M46	dDl
Ar pecmb	13h-2	06h3 2	060 a13	0 42120	06h1h70	1M42	dDl
AGw8cmb	270-1	623	31	3h2	3 a	hM07	dDl
AGw8cmb	273-1	1377	1277	12a0	102a	11M06	dDl
AdC	11a-1	2004	227h	201	22a6	2M1	dDl
AdTwCcmb	4 -1	a3a	a77	h2	a1	4M43	dDl
RpwCcmb	20a-1	1a2h	1 h73	1aa36	1a030	2M01	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	S0324-71	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTI wb D8 :t&:J	9 y 7Uh6	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J73J1a	&wTwUd8 :u wb r :J	724q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwocmb	31-2	3 7	610	4	330	12M62	dDl
YTTr pecmb	1 2-1	142	16	1 3	161	17M	dDl
YTTr pecmb	1 2-2	a	111	a	ah	21M63	dDl
YTTr pecmb	1 6-1	1142	1142	176	111	0M4a	dDl
YTTr pecmb	1 6-2	h3ha	h7 7	h613	h42a	0M2h	dDl
YTTpcmb	ah-1	1171 311	112a1637	111434a3	1114a213	1M1a	dDl
YTTpcmb	ah-2	11h76a0	11h7h 6	11a7176	11a 233	7M32	dDl
ZdCd	66-2	4h 4	4 h4	4 71	4a20	2M4a	dDl
ZqpdnCcmb	h7-1	1123	10a0	1h77	14 7	26M46	dDl
ZqpdnCcmb	h1-1	2 3	077	437	042	2 M7	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-72	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J7aJ16	&wTwUd8 :u wb r :J	723q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	2174	27ah	2113	2172	7M60	dDl
qCTb nCE	121-1	23	00	600	6h	M16	dDl
qpl r Ccl	3-2	33	64	h	66	1aM0	dDl
Bwpcmb	103-1	31ah2	33160	30363	30347	0M76	dDl
Bwpcmb	10 -1	h4 h1	h642	h000a	h4a32	1M60	dDl
Br pE8mb	h-1	211	24	221	22	aM26	dDl
Bdl b mTG	27h-1	30h2 17	33ha304	346061a	34a4h34	1M11	dDl
Bdl b mTG	27h-2	2h2 a01	2a46747	2h1h777	2ah 624	1M33	dDl
Bpmb cCr	a1-1	24433	07 7h	004h1	2h332	13M66	dDl
5 wob cmb	17a-1	6	34	46	36	1aM4a	dDl
5 wob cmb	176-1	0237	0326	046	0414	4M24	dDl
5 wob cmb	111-1	22a	24h	2466	2416	4M0a	dDl
5 w8lcmb	40-1	4 002h	4a16h3	4 a302	4 a32	7M4a	dDl
5 w8lcmb	44-1	a7a 620	a1247h1	a736413	a7ah0 6	7M42	dDl
5 wpenC	12-1	4333771	4h4h464	32h4a34	4h00176	M37	dDl
5 wpenC	12-2	6674h	6 h16	7h46	6a074	0M62	dDl
5 G8hpCr	03-1	1761660	17h6660	1172h 1	17a 7hh	2M73	dDl
5 G8hpCr	03-2	a11	a7	a761	ha0	1M4	dDl
5 Gpmb cmb	32-2	40a	4024	4734	4233	4M16	dDl
5 new8T	3h-2	16h	1 00	1 4	1 26	1M37	dDl
5 nDDr p	60-2	2 44	2a24	0734	2a 4	3M67	dDl
&El Dpnl cmb	136-1	2 3	06	26	070	1aM00	dDl
&El Dpnl cmb	136-2	160	14	1 7	167	M31	dDl
Fpecmb	164-1	023	4 3	41	476	1aM03	dDl
Fpecmb	164-2	10	1 0	107	14	13M11	dDl
Hwon8Cmb	167-1	077	000	477	044	14Ma	dDl
Hwon8Cmb	167-2	017	07	26	2h4	aM1h	dDl
y n8b cmb	163-1	a73660	a017264	a44104	a26h416	2M0	dDl
y n8b cmb	163-2	0 a0006	0a0226a	0a7h204	0a7a2 h	7M64	dDl
tCocmb	113-1	61112a0	62 a0h	607a013	6202663	1M7	dDl
tCocmb	113-2	h2 41a	h171a3	h27 4a	h1h437	7M13	dDl
tpnC	34-2	622h2	64244	623ha	60743	1M0	dDl
tpnC	36-2	1141210	112661a	11071a0	11026 1	7M0	dDl
tpnC	3 -2	2h 13	2h7h	2h 34	2h322	1M23	dDl
KpEDTnC	a0-1	232	20	233	24a	0M41	dDl
Lr wo	276-1	271	21 2	220h	2140	3M02	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-72	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2720-7 -14:13J7aJ16	&wTwUd8 :u wb r :J	723q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	27 -1	1622	1a37	1h1	1 h6	aM67	dDl
Lr wo	27a-1	a2h7	a31a	a031	a0a6	1M41	dDl
LdTGmb	6-1	20a376	2427110	23717h	2403426	2M44	dDl
9 wgCr l mb	24-2	h14h27	h2a112	ahh24	h147h0	1M3a	dDl
9 wCgwCr l r	33-2	4h3h6	3726a	37744	4hh 7	7M6a	dDl
9 n8Eeor Cmb	h4-1	17 aa	17a60	117a7	17h17	1M0h	dDl
9 n8Eeor Cmb	h3-1	1a6aa	1ah60	1a4aa	1a 10	1M2a	dDl
9 n8Eeor Cmb	h6-1	27163	1h714	27ah1	27720	4M0	dDl
9 n8Eeor Cmb	h -1	11133	11a07	116 2	11332	0M76	dDl
9 n8Eeor Cmb	ha-1	071h2	0777a	071a0	0712a	7M04	dDl
u r noEb cmb	137-1	310	66	327	36	13M2h	dDl
u r noEb cmb	137-2	1h0	217	230	21h	14M13	dDl
u cdkr 8	67-2	h0	10	67	36	3M02	dDl
NGhl DGhpml	01-2	13a	277	123	161	20M00	dDl
NnTwl mb	0h-2	204h06	2010aa	202a27	20074a	7M	dDl
. Ghocmb	170-1	6772 64	602406a	62301a4	61h040h	2M0	dDl
. Ghocmb	170-2	2hah742	0770a4h	2h07747	2h 4017	1M01	dDl
l dwCocmb	43-1	47 1410	421a03	4124142	410 h 1	1M47	dDl
l dwCocmb	43-2	147214	106604	106001	10 2	1M3	dDl
l r 8 Cmb	a2-1	31	61	a6	66	2 M27	dDl
l r 8 Cmb	-2		7	7	2	1 0M21	dDl
l r 8 Cmb	a-2	20	1a	24	22	14M44	dDl
l 8dnC	2a-1	1ha4a3a6	27242263	2712 aa3	277 2h12	1M71	dDl
l 8vr p	17 -1	177	11	100	11	14M2h	dDl
l 8vr p	17h-1	6	a0	11	ah	2aM04	dDl
l nocmb	20-2	467406	43h16 1	4366 01	43a 3ah	7M42	dDl
l TpnCTmb	a6-1	2 1337	2a3717	26h302	2 3064	0M76	dDl
l TpnCTmb	aa-1	246476h	24 h7h7	24a4h 4	24 6744	7M44	dDl
l m8mp	04-1	4h 24	4 767	06041	440 3	7M13	dDl
Ar pecmb	13h-1	a2h h7	a3a127a	a3226 6	a46 264	1M	dDl
Ar pecmb	13h-2	0a 7a6	066a060	0 632hh	0 6a1 6	2M0h	dDl
AGw8mb	270-1	477	47a	4a0	401	17M06	dDl
AGw8mb	273-1	1142	101	1700	1164	12M2a	dDl
AdC	11a-1	2442	227h	2404	2061	3M61	dDl
AdTwCmb	4 -1	a3a	a6	171	h14	hM3	dDl
RpwCmb	20a-1	0a 71	0a0 6	0aaa3	0a634	7M0	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	S0324-72	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y 7Uh	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J7aJ16	&wTwUd8 :u wb r :J	723q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	31-2	310	4a0	427	4 2	17M7h	dDl
YTTr pecmb	1 2-1	1h2	223	242	21h	11M67	dDl
YTTr pecmb	1 2-2	h4	176	61	a	26M3a	dDl
YTTr pecmb	1 6-1	1223	12 3	14 3	1023	hM1a	dDl
YTTr pecmb	1 6-2	h340	17713	174hh	1771h	4M	dDl
YTTpcmb	ah-1	110ahh0	11a2607h	11637a6h	116220 1	1M4h	dDl
YTTpcmb	ah-2	122ha22	11hhh24	127 3h2	1212446	1M2a	dDl
ZdCd	66-2	12412	120ah	127ah	122h	1M4	dDl
ZqpdnCcmb	h7-1	116	1 04	1 23	1342	21M7	dDl
ZqpdnCcmb	h1-1	237	2 3	03a	2h4	1hM2	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-70	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J11J1a	&wTwUd8 :u wb r :J	726q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	2772	1ha7	2106	270h	4M14	dDl
qCTb nCE	121-1	66	23	6 3	6ah	4M3a	dDl
qpl r Ccl	3-2	1	64	6	7	aM3	dDl
Bwpcmb	103-1	30001	33464	33413	34 0	2M22	dDl
Bwpcmb	10 -1	h4062	h6372	h32 7	h30 a	1M10	dDl
Br pE8mb	h-1	236	247	26	233	3M40	dDl
Bdb mTG	27h-1	3413264	30h062a	30121a6	30 06h0	1M71	dDl
Bdb mTG	27h-2	2 346a6	2a10373	2 h777h	2 a676	1M76	dDl
Bpmb cCr	a1-1	2 103	02473	06222	01h21	14M2h	dDl
5 wob cmb	17a-1	46	h	60	60	26M3	dDl
5 wob cmb	176-1	0142	031	0023	002a	3M34	dDl
5 wob cmb	111-1	2233	231h	20aa	20a	3M30	dDl
5 w8lcmb	40-1	4a4a2a	4a02h6	4a a23	4a3016	7M4	dDl
5 w8lcmb	44-1	h71642	a7a0667	a1a7h24	a73347h	1M6	dDl
5 wpenC	12-1	4 2h667	31aa147	3024077	37a7 77	6M10	dDl
5 wpenC	12-2	6 422	72 6	0166	72aa	4M7h	dDl
5 G8hpCr	03-1	1770 32	1703032	1736 42	1701h4h	2M3a	dDl
5 G8hpCr	03-2	611	21h	2	31h	0M34	dDl
5 Gpmb cmb	32-2	0hh4	426	47a	4116	0M0a	dDl
5 new8T	3h-2	1 10	1a27	1627	1 1a	3M40	dDl
5 nDDr p	60-2	2627	230	2 07	262h	0M8h	dDl
&El Dpnl cmb	136-1	0a0	0h2	042	0 2	M27	dDl
&El Dpnl cmb	136-2	1	100	1	162	13M42	dDl
Fpecmb	164-1	477	41	0a0	477	4M1	dDl
Fpecmb	164-2	110	130	1h	134	26M1h	dDl
Hwon8Ccmb	167-1	0h2	300	2h2	476	2hM14	dDl
Hwon8Ccmb	167-2	230	070	2h7	2a2	hM1	dDl
y n8b cmb	163-1	a731446	h37030	h h2h0	hh06h	7M03	dDl
y n8b cmb	163-2	0 76642	0 0146a	0 46130	0 2a7aa	7M34	dDl
tCocmb	113-1	617671a	6016271	602 44	624hha	2M77	dDl
tCocmb	113-2	a h7hh	aa7437	aah20a	aa2h2h	7M02	dDl
tpnC	34-2	3h641	3h 3	3a6ha	3h0 1	7M1h	dDl
tpnC	36-2	17 7163	17 3 43	17a103a	17 3 36	7M32	dDl
tpnC	3 -2	2 617	2a177	2 373	2 0a	1M13	dDl
KpEDTnC	a0-1	243	264	236	233	0M7	dDl
Lr wo	276-1	2777	2736	2736	270	1M3	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-70	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2720-7 -14:13J11J1a	&wTwUd8 :u wb r :J	726q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	27 -1	166	1 a	1637	16ha	4M7h	dDl
Lr wo	27a-1	h7	a3	a71	a16	7M46	dDl
LdTGmb	6-1	20a7414	20a1110	2407421	20h 016	1M27	dDl
9 wgCr l mb	24-2	h73h 4	h706 3	h27h	h1727h	1M70	dDl
9 wCgwCr l r	33-2	4h 70	37 7	3747h	372h4	1M7a	dDl
9 n8Eeor Cmb	h4-1	hha	17a21	11773	17674	3M11	dDl
9 n8Eeor Cmb	h3-1	1a234	1a410	1a727	1a22h	1M7a	dDl
9 n8Eeor Cmb	h6-1	277h7	1h464	27102	1hah3	1M4a	dDl
9 n8Eeor Cmb	h -1	1100a	112aa	11 73	11444	1M1h	dDl
9 n8Eeor Cmb	ha-1	0741	0707h	2h3h1	07176	1M4h	dDl
u r noEb cmb	137-1	64	667	a	6ha	11M7	dDl
u r noEb cmb	137-2	217	24	1a7	212	13M0	dDl
u cdkr 8	67-2	63	0	h7	47	hM42	dDl
NGhl DGhpm	01-2	17a	142	123	123	10M00	dDl
NnTwl l cmb	0h-2	203221	204304	204667	204a73	7M16	dDl
. Ghocmb	170-1	67hh3a	3h4h240	3h066a7	3hh31 7	1M31	dDl
. Ghocmb	170-2	2h7h666	2aah400	2a23aa7	2a 4hh0	1M32	dDl
l dwCocmb	43-1	0hh0 0	4747172	411240	474a 1	1M4a	dDl
l dwCocmb	43-2	104376	1031h	103h2h	103211	7M30	dDl
l r 8 Ccmb	a2-1	h7	36	3a	6a	2aM1	dDl
l r 8 Ccmb	-2	0	0	7	2	a6M67	dDl
l r 8 Ccmb	a-2	22	23	24	24	6M43	dDl
l 8dnC	2a-1	277717h0	27061ah	2702h310	27207a04	7M1h	dDl
l 8vr p	17 -1	h2	123	100	11	1aM17	dDl
l 8vr p	17h-1	37	37	3	3a	24M4	dDl
l nocmb	20-2	430 72	4303362	4603320	436h3h6	1M23	dDl
l TpnCTcmb	a6-1	2 074	2 6104	2 4347	2 43 4	7M36	dDl
l TpnCTcmb	aa-1	244432a	237 22	2432363	246a176	1M0a	dDl
l m8mp	04-1	4660	411a0	44112	40h	7M0	dDl
Ar pecmb	13h-1	a1 1a6a	a07hah2	a00030	a2 1 63	1M76	dDl
Ar pecmb	13h-2	06a24a	064a61a	06a0364	06 1336	7M34	dDl
AGw8mb	270-1	400	437	4 3	430	4M60	dDl
AGw8mb	273-1	h2	1742	a3a	ah	14M40	dDl
AdC	11a-1	2704	2737	2204	2176	3M2	dDl
AdTwCcmb	4 -1	h7a	a 3	6 3	a1h	13M47	dDl
RpwCcmb	20a-1	0aha6	0a4h0	0a7hh	0a326	1M13	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	S0324-70	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y 7Uh &	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J11J1a	&wTwUd8 :u wb r :J	726q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwocmb	31-2	44	0h7	330	460	1 M17	dDl
YTTr pecmb	1 2-1	1 3	1h2	1 3	1a1	3M00	dDl
YTTr pecmb	1 2-2	ah	a0	11	h6	1aM34	dDl
YTTr pecmb	1 6-1	173a	1737	11 3	17h3	6M0h	dDl
YTTr pecmb	1 6-2	h00	h6ha	hh13	h637	0M10	dDl
YTTpcmb	ah-1	1113a67h	11172aa	11760	1117a424	7M40	dDl
YTTpcmb	ah-2	11a2 07	11 246a	11 60	11 634	7M44	dDl
ZdCd	66-2	11a4a	11h0a	11a32	11a h	7M40	dDl
ZqpdnCcmb	h7-1	126	1223	1077	1264	2M1	dDl
ZqpdnCcmb	h1-1	137	26	2h2	206	02M10	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	801	761	720	761	5.34	cps
Antimony	121-1	358	392	367	372	4.66	cps
Arsenic	75-2	20	10	21	17	35.78	cps
Barium	135-1	11472	11747	10780	11333	4.40	cps
Barium	137-1	18772	20074	20182	19676	3.99	cps
Beryllium	9-1	135	144	130	136	5.11	cps
Bismuth	209-1	5683182	5325672	5536089	5514981	3.26	cps
Bismuth	209-2	2934296	2886082	2892390	2904256	0.90	cps
Bromine	81-1	12706	12748	12998	12817	1.23	cps
Cadmium	108-1	38	63	54	51	24.77	cps
Cadmium	106-1	3526	3192	3225	3314	5.54	cps
Cadmium	111-1	2562	2274	2287	2374	6.87	cps
Calcium	43-1	97390	99525	98522	98479	1.08	cps
Calcium	44-1	1714296	1722573	1774294	1737055	1.87	cps
Carbon	12-1	3480763	3542006	3598117	3540296	1.66	cps
Carbon	12-2	43524	43022	43272	43273	0.58	cps
Chlorine	35-1	751433	757173	756047	754884	0.40	cps
Chlorine	35-2	5301	5293	5451	5348	1.67	cps
Chromium	52-2	1777	1607	1793	1726	5.99	cps
Cobalt	59-2	467	447	407	440	6.94	cps
Copper	63-2	1603	1707	1530	1613	5.50	cps
Dysprosium	156-1	67	125	92	94	30.98	cps
Dysprosium	156-2	27	33	27	29	13.31	cps
Erbium	164-1	83	108	108	100	14.43	cps
Erbium	164-2	67	57	57	60	9.62	cps
Gadolinium	160-1	175	167	158	167	5.00	cps
Gadolinium	160-2	167	143	137	149	10.58	cps
Holmium	165-1	8608007	8146931	8451476	8402138	2.79	cps
Holmium	165-2	3898433	3713828	3817195	3809819	2.43	cps
Indium	115-1	6551081	6327966	6327407	6402151	2.01	cps
Indium	115-2	918224	907594	908962	911594	0.63	cps
Iron	54-2	13384	13295	12945	13208	1.76	cps
Iron	56-2	242450	232940	236537	237309	2.02	cps
Iron	57-2	6068	6163	6496	6242	3.60	cps
Krypton	83-1	287	297	245	277	10.08	cps
Lead	206-1	1611	1722	1606	1646	4.00	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1339	1400	1333	1358	2.73	cps
Lead	208-1	6501	6484	6379	6454	1.03	cps
Lithium	6-1	2462963	2404035	2446270	2437756	1.25	cps
Magnesium	24-2	189665	190316	187234	189071	0.86	cps
Manganese	55-2	10517	10314	10220	10351	1.47	cps
Molybdenum	94-1	3017	3242	2867	3042	6.21	cps
Molybdenum	95-1	4859	5343	5043	5082	4.80	cps
Molybdenum	96-1	5410	5226	5193	5276	2.21	cps
Molybdenum	97-1	3050	3117	2800	2989	5.59	cps
Molybdenum	98-1	7844	8353	7544	7914	5.17	cps
Neodymium	150-1	153	133	200	162	21.09	cps
Neodymium	150-2	43	63	33	47	32.74	cps
Nickel	60-2	187	233	240	220	13.21	cps
Phosphorus	31-2	58	100	100	86	27.93	cps
Potassium	39-2	58385	59557	59582	59175	1.16	cps
Rhodium	103-1	6531126	6234733	6413387	6393082	2.33	cps
Rhodium	103-2	3029246	2984596	3011043	3008295	0.75	cps
Scandium	45-1	4277457	3989900	4267071	4178143	3.90	cps
Scandium	45-2	139087	136163	139570	138273	1.33	cps
Selenium	82-1	49	-5	28	24	113.98	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	16	23	22	20	18.62	cps
Silicon	28-1	4254159	4232829	4234217	4240401	0.28	cps
Silver	107-1	125	117	167	136	19.68	cps
Silver	109-1	142	67	67	92	47.24	cps
Sodium	23-2	951869	942389	951401	948553	0.56	cps
Strontium	86-1	56765	56724	58724	57405	1.99	cps
Strontium	88-1	484883	500370	501456	495570	1.87	cps
Sulfur	34-1	419559	419681	414340	417860	0.73	cps
Terbium	159-1	8642441	8156636	8420518	8406532	2.89	cps
Terbium	159-2	3734222	3698254	3726539	3719671	0.51	cps
Thallium	203-1	392	417	392	400	3.61	cps
Thallium	205-1	1233	1033	1033	1100	10.50	cps
Tin	118-1	1650	1508	1542	1567	4.73	cps
Titanium	47-1	733	575	558	622	15.52	cps
Uranium	238-1	7786	8295	8178	8086	3.30	cps

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LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	147	163	127	146	12.61	cps
Ytterbium	172-1	100	75	108	94	18.37	cps
Ytterbium	172-2	33	56	39	43	27.16	cps
Ytterbium	176-1	1150	1000	967	1039	9.40	cps
Ytterbium	176-2	10288	9648	10037	9991	3.22	cps
Yttrium	89-1	11775702	11056161	11537023	11456295	3.20	cps
Yttrium	89-2	1215689	1193700	1210811	1206733	0.96	cps
Zinc	66-2	2824	2804	2880	2836	1.40	cps
Zirconium	90-1	875	708	775	786	10.67	cps
Zirconium	91-1	108	117	133	119	10.66	cps

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-74	tOwTpmb Or TusB r:J	8N
5 Pr CTI sb DPP:t&:J	9 y 7Uh I	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J1 J21	&sTsUdP:usb r:J	72Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCcmb	2 -2	hh747	hN27h	hNN23	hN6h1	7M44	dDw
qCTb nCE	121-1	303h70	34703h	3072 3	303312	7M14	dDw
qpwr Ccd	3-2	6127	677N	3hNh	670h	1M1	dDw
Bspcmb	103-1	266 NN	2 44473	26h6276	2 72N00	1M40	dDw
Bspcmb	10 -1	46712 1	4316337	43h1167	436h667	1M71	dDw
Br pEPPcmb	h-1	h117	h20	h 14	h034	7M47	dDw
Bcwb mTG	27h-1	320300	323hN63	3043721	32N77 4	1M7h	dDw
Bcwb mTG	27h-2	2 4720	2N27 3h	2N07h60	2N7N3N1	1M7N	dDw
Bpmb oCr	N1-1	2N622	04 2	420N1	03240	1hM36	dDw
5 sob cmb	17N-1	431	46N4	4 71	4604	2M1h	dDw
5 sob cmb	176-1	h20	Nh 7	h6N	h2hN	0M17	dDw
5 sob cmb	111-1	12 4	6h0N4	27N1	7h10	1M13	dDw
5 sPlcmb	40-1	4 1174	4 2007	4N2434	4 32h6	1M01	dDw
5 sPlcmb	44-1	h7N12h	h 7027	N27 3	N72N6 3	1M1	dDw
5 spenC	12-1	42461hh	4 03470	4hN4N16	46334 0	NM7	dDw
5 spenC	12-2	66237	63434	6 10	662N7	1M2	dDw
5 GPhpcCr	03-1	0h22N21	4 2N2h1	30h 0h	46N2N06	13M	dDw
5 GPhpcCr	03-2	46h71	4h 27	30616	377 h	6M0	dDw
5 Gpmb cmb	32-2	062322	03h722	0606 2	061 0h	7M3	dDw
5 nesPT	3h-2	1 3 N04	1 6hN2	1 34h01	1 67N64	7M43	dDw
5 nDDr p	60-2	6001 4	6421 6	60202h	603Nh0	7MM6	dDw
&EwDpnwcmb	136-1	06	423	47N	477	M31	dDw
&EwDpnwcmb	136-2	1 0	1N7	160	1 2	4MM	dDw
Fpecmb	164-1	06	437	0 3	0h	11M36	dDw
Fpecmb	164-2	160	110	1 7	14h	27MM7	dDw
HsonPCcmb	167-1	03N	2h2	423	03N	1MM07	dDw
HsonPCcmb	167-2	267	200	26	230	6M16	dDw
y nPb cmb	163-1	631600	h21412	N4N643	N7 207	1Mh	dDw
y nPb cmb	163-2	0 03 2	0 h0 0	0N10h23	0 N113	1M1	dDw
tCocmb	113-1	617644	6130764	67 424	6112011	7M62	dDw
tCocmb	113-2	NN242	NN6N16	Nh633N	NNN677	7MM1	dDw
tpnC	34-2	122040	120N N	1272 6	122163	1M4N	dDw
tpnC	36-2	2171042	217061N	27h 3hh	2177N30	7M14	dDw
tpnC	3 -2	317h1	316h4	37N3N	31214	7MM4	dDw
KpEDTnC	N0-1	2 1	263	246	261	4M1h	dDw
Lr so	276-1	Nh1hh	Nh1	h2021	h7202	2M17	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-74	tOwTpmb Or TusB r:J	8N
5 PrCTI sb DPP:t&:J	9 y 7Uh I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J1 J21	&sTsUdP:usb r:J	72Nq. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	27 -1	N76N	NNNh	h771	N630	7M03	dDw
Lr so	27N-1	030374	03h10N	0640Nh	03h717	1M32	dDw
LdTGmb	6-1	204hh h	241 6h2	2416 64	20h4N12	1M02	dDw
9 sgOr wcmb	24-2	Nh 7 3	h1267h	NhN171	h723h3	7M16	dDw
9 sOgsOr wr	33-2	4N7744	4N4066	4N40 2	4N2h2N	7M32	dDw
9 nPEeor Omb	h4-1	11110	11746	11333	1120N	2M46	dDw
9 nPEeor Omb	h3-1	1 612	1N010	1N410	1N112	2M41	dDw
9 nPEeor Omb	h6-1	1hNN1	2743	1hN76	2774N	1MN	dDw
9 nPEeor Omb	h -1	12722	117 1	11710	1106h	4MN	dDw
9 nPEeor Omb	hN-1	2N 2	2h0 0	07077	2h4N2	2M61	dDw
u r noEb omb	137-1	00	647	h0	22	17M7	dDw
u r noEb omb	137-2	267	2 0	21	237	11MN3	dDw
u dkr P	67-2	44644	44N22N	437431	44N0 3	7M43	dDw
8 GhwDGhpmw	01-2	h2	137	200	13N	44M1	dDw
8 nTswwcmb	0h-2	200NN0	203737	203h13	204h4h	7M40	dDw
. Ghoomb	170-1	3NN7 h	67017h7	3h611h7	3h3 6h2	1M26	dDw
. Ghoomb	170-2	2NN7324	2h03330	2h0 301	2h1 N6h	1M11	dDw
I dsCoomb	43-1	47 h02h	476N012	4173 hN	47N44N7	7M4	dDw
I dsCoomb	43-2	1062h6	103Nhh	10440h	103343	7M2	dDw
I r PPCmb	N2-1	hh04	h6 4	h 7	h 2	1M43	dDw
I r PPCmb	-2	047	2	220	2N7	27MN6	dDw
I r PPCmb	N-2	1103	17	17 0	17h3	0M1	dDw
I dRdnC	2N-1	1hh66722	1hhh4 02	2707 134	277Nh072	7M14	dDw
I dPr p	17 -1	0744N3	0704 0	071Nh4	0702N4	7M40	dDw
I dPr p	17h-1	2NN 10	2Nh1h2	2Nh6h7	2Nh1hN	7M1	dDw
I noomb	20-2	431h7hN	434N77N	4431411	43761 0	1M17	dDw
I TpnCTomb	N6-1	2 4117	2 06 1	2 62 h	2 46N	7M31	dDw
I TpnCTomb	NN-1	2473 42	2431N 4	243N 44	240N N	1MN	dDw
I mPPmp	04-1	2h7 2	2N01h	06246	01212	7M67	dDw
Ar peomb	13h-1	N03NN10	N24 1h7	N07N 37	N074h1N	7M3	dDw
Ar peomb	13h-2	06 hh31	06 4hN	06N3462	06N7100	7M14	dDw
AGsPPmb	270-1	2641hh	2 1h72	2 74N2	26NN61	1M32	dDw
AGsPPmb	273-1	62164N	600h1	637NN6	6034N4	2M01	dDw
AdC	11N-1	2142	2442	2677	20h3	hM2	dDw
AdSComb	4 -1	113N	113N	10h2	1206	17M17	dDw
RpsComb	20N-1	0N724	0 Nhh	0 40h	0 NN	7MN2	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-74	tOwTpmb OrTusb r:J	8N
5RrCTI sb DPr:t&:J	9 y 7Uh l	&dPnTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpro:J	2720-7 -14:13J1 J21	&sTsUdPr:usb r:J	72Nq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	31-2	6NN16h	6N7h23	6h7470	6N64hh	7M2	dDw
YTTr peomb	1 2-1	1h2	277	242	211	12M0h	dDw
YTTr peomb	1 2-2	h4	10h	176	110	27M4	dDw
YTTr peomb	1 6-1	h3N	121	1123	1177	11M11	dDw
YTTr peomb	1 6-2	h 02	hN3h	h6 7	h 34	7M1h	dDw
YTTpomb	Nh-1	111N14NN	111221h6	11446313	11237766	1M34	dDw
YTTpomb	Nh-2	11N7071	11NN3 3	121704N	11h07 3	1M07	dDw
ZdCd	66-2	1643N7	16 76h	16407N	16301h	7M12	dDw
ZqpdnComb	h7-1	11N0	13N4	11h2	1027	1 M00	dDw
ZqpdnComb	h1-1	223	2h2	06	2h4	24M7	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-73	tOwTpmb Or Tu sb r:J	8 N
9 Pr CTI sb DPP:t&:J	y h 7M N	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J27J1	&sTsMdPP:u sb r:J	72. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I 0	9 8 I y r sC	9 8 I F I &	5 CdTw
qPmb cOcmb	2 -2	2122	2221	2374	22N2	NR6	dDw
qCTb nCE	121-1	. 2	N 3	. N0	NN0	17RNN	dDw
qpwr Ccd	3-2	6	2	N.	.	11R23	dDw
Bspcmb	103-1	30 3N	30. N0	322N3	30042	1R 0	dDw
Bspcmb	10 -1	. 4N6	. 03. 7	. 20 0	. 0617	1R0	dDw
Br pEPRmb	. -1	247	22.	2 7	246	NR66	dDw
Bcvb mTG	27. -1	30 771N	303. . . 2	321N437	3016134	1R3.	dDw
Bcvb mTG	27. -2	2 N1727	2N3 76	2 N. 3 3	2N7. 221	1R4N	dDw
Bpmb cOr	N1-1	2. 120	02734	0371.	02763	. R27	dDw
9 sob cmb	17N-1	34	0N	60	31	24R	dDw
9 sob cmb	176-1	0142	023.	02N4	022N	2R04	dDw
9 sob cmb	111-1	2243	200N	2042	207.	2R0.	dDw
9 sPdcmb	40-1	46 177	4 4263	4 6 N.	4 2 1N	1R76	dDw
9 sPdcmb	44-1	6. 367	N 310	N71NN67	NNN644	1R3N	dDw
9 spenC	12-1	42062 3	4647264	4N4N412	43 4. N4	6RN7	dDw
9 spenC	12-2	604 1	6071.	6404.	60610	1R76	dDw
9 GPmpcOr	03-1	20 0N 3	2031222	22631 .	20077. 2	2R46	dDw
9 GPmpcOr	03-2	13 7.	1407	10. . 7	1466.	6R20	dDw
9 Gpmb cmb	32-2	3731	37N1	31N1	3174	1R0	dDw
9 nesFT	3. -2	22. 4	27.	2207	227	4R33	dDw
9 nDDr p	60-2	26.	2N. 7	03	0733	13R14	dDw
&EwDpnwcmb	136-1	46	03N	2. 2	0 2	20R 0	dDw
&EwDpnwcmb	136-2	1. 0	127	12	14	2 R63	dDw
Upecmb	164-1	400	0N0	0N0	477	R22	dDw
Upecmb	164-2	1.	130	1N7	1	12R0	dDw
HsonRCcmb	167-1	000	423	023	061	13R0	dDw
HsonRCcmb	167-2	077	017	2N0	2. N	4R32	dDw
h nPb cmb	163-1	N16603N	N72N436	. 7730.	N701 N4	1R66	dDw
h nPb cmb	163-2	0N7631N	0 2010	066472N	0 0122N	1R.2	dDw
tCocmb	113-1	67 6 6	622643N	6700423	6112327	1R63	dDw
tCocmb	113-2	NNN00	N. 20N7	NN33.	NNN 1	7R0N	dDw
tpnC	34-2	11273	11616	12011	11 11	4R N	dDw
tpnC	36-2	1. 2610	1. N730	210 . 6	2714N	3R46	dDw
tpnC	3 -2	632.	6271	6641	643	0R34	dDw
KpEDTnC	N0-1	261	2.	261	2 0	R66	dDw
Lr so	276-1	0743	2N61	2N77	2. 72	4R0N	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-73	tOwTpmb Or TusB r:J	8N
9 Pr CTI sb DPP:t&:J	y h 7M N	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J27J1	&sTsMdPP:usb r:J	72. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I 0	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	27 -1	2443	2237	221	2074	3P04	dDw
Lr so	27N-1	11010	11110	17 . 6	117 4	2P03	dDw
LdTGmb	6-1	20 7N3	24176 1	20. 2N. 2	20. 034.	7R 7	dDw
y sgOr wcmb	24-2	NN. . 00	NN3. 4	NN4N43	NN6. 1	7P07	dDw
y sOgsOr wr	33-2	4N04N	4N263	4NN67	4N4. 1	7P66	dDw
y nPEeor Omb	. 4-1	1762.	17. . 6	11073	17.	0P7N	dDw
y nPEeor Omb	. 3-1	1 . .	1N20	1 62N	1 . 4N	1R 7	dDw
y nPEeor Omb	. 6-1	27341	273. .	277 0	27474	1P41	dDw
y nPEeor Omb	. -1	116 2	11233	11N.	1167N	2PN1	dDw
y nPEeor Omb	. N-1	2. 447	07603	0777N	0772N	1R.	dDw
u r noEb omb	137-1	N4	77	27	36	17P30	dDw
u r noEb omb	137-2	270	277	227	27N	3P16	dDw
u cdkr P	67-2	1107	17N0	1217	1141	3P61	dDw
8 GhwDGhpmw	01-2	142	. 2	137	12N	24P6.	dDw
8 nTswwcmb	0. -2	22 6 .	22. NN	22 63N	22N0 3	7P34	dDw
F Ghocmb	170-1	6172631	3. N6N46	3. 60 3	671 31	1P24	dDw
F Ghocmb	170-2	2N 7N60	2N. 3 N	2. 74. 20	2N. 7324	7P61	dDw
I dsCocmb	43-1	0. 27 6	47 NN0N	41434 3	4763460	2P13	dDw
I dsCocmb	43-2	10 1 .	10340.	1060 N	106002	7P64	dDw
I r PCcmb	N2-1	. 3	21	40	30	1R 3	dDw
I r PCcmb	-2	7	7	0	1	1 0P21	dDw
I r PCcmb	N-2	0	24	07	07	21P43	dDw
I dPdnC	2N-1	1. 430227	2710 1N2	1. . 2. 670	1. N47772	1R	dDw
I dPr p	17 -1	137	100	077	1. 4	4 P22	dDw
I dPr p	17. -1	17N	17N	3	.	1. PN7	dDw
I nocmb	20-2	4344 . .	4341. . 0	4307720	430N. 0N	7P1	dDw
I TpnCTcmb	N6-1	2660. 4	2 6427	2 13.	2 14 7	1PN3	dDw
I TpnCTcmb	NN-1	247 41N	2436716	24166N	2426 7	1P76	dDw
I mPmp	04-1	1NNN	2 N. N	2. 64N	234 N	7PN7	dDw
Ar pecmb	13. -1	N0 . 64	N223 6	N10. 24	N24N220	1P4N	dDw
Ar pecmb	13. -2	06 4N3.	060 33.	036. 0N2	062 26	1P4	dDw
AGsPPcmb	270-1	377	437	47N	430	17P14	dDw
AGsPPcmb	273-1	113N	. . 2	. 37	1700	17P6	dDw
AdC	11N-1	14N77	14 . 2	1407N	14600	1R.0	dDw
AdSCcmb	4 -1	N0	N00	1700	NN0	14R.N	dDw
5 psCcmb	20N-1	0N03.	06. 21	0 301	0 674	1R.2	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-73	tOwTpmb OrTusbr:J	8N
9RrCTI sb DPr:t&:J	y h7M N	&dPnTnC:MsdTnpJ	1
&sTr:i :Adbr:qdOmprro:J	2720-7 -14:13J27J1	&sTsMdPr:usbr:J	72. qFUMRo

8spsbrTrp	y sww	98I 1	98I 2	98I 0	98I yrsC	98I FI &	5CdTw
VsCsoomb	31-2	647	67	630	600	0RN7	dDw
YTTrpeomb	1 2-1	1N0	123	21	1 3	26R31	dDw
YTTrpeomb	1 2-2	2	177	136	17.	0NRN4	dDw
YTTrpeomb	1 6-1	17N0	1700	107N	1142	12RN0	dDw
YTTrpeomb	1 6-2	. 474	. 63.	. 714	. 03.	0R4	dDw
YTTpomb	N. -1	1122N101	1126. 0N7	17. . 674	11164327	1R02	dDw
YTTpomb	N. -2	11 66NN	11 61N0	11N0N22	11 NN.	7R06	dDw
ZdCd	66-2	1017.	10770	10467	101. 1	1RN1	dDw
ZqpdnComb	. 7-1	1177	1737	1142	17.	4R1N	dDw
ZqpdnComb	. 1-1	242	200	2 3	237	NRN2	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-76	tOwTpmb Or Tusb r:J	8N
5 Pr CTI sb DPP:t&:J	9 y 7Uhh	&dPnTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J20J1	&sTsUdP:usb r:J	707q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCmb	2 -2	27N3	27 6	1hNh	2737	2M7	dDw
qCTb nCE	121-1	N6	Nh2	NN0	NN1	1M3	dDw
qpwr Ccl	3-2	6	61	66	63	4M1	dDw
Bspcmb	103-1	3246h	326N	37 h6	31hN4	1M1h	dDw
Bspcmb	10 -1	Nh h7	h10h2	Nh0 2	h71N4	1M1N	dDw
Br pEPmb	h-1	206	224	241	204	0MN6	dDw
Bcwb mTG	27h-1	3374364	34 37h7	32h2642	34247hh	2M12	dDw
Bcwb mTG	27h-2	072064N	2N7h360	2N3h136	2Nh 436	0MN1	dDw
Bpmb cCr	N1-1	26hh0	01 7	031N6	01016	10M14	dDw
5 sob cmb	17N-1	37	42	34	4h	10M7h	dDw
5 sob cmb	176-1	0004	021	01N4	0243	2M10	dDw
5 sob cmb	111-1	2061	2264	2202	22N6	2M10	dDw
5 sPlcmb	40-1	4N4h34	4h0711	4h7N6N	4Nh611	7MN3	dDw
5 sPlcmb	44-1	N22NhhN	N122 7h	N411113	N2342 4	1M	dDw
5 spenC	12-1	416006N	430007	4N30777	431633N	M04	dDw
5 spenC	12-2	67N17	61772	61212	6177N	7M10	dDw
5 GPnpcCr	03-1	133044h	13 N106	13 1 66	136 N0	7MN2	dDw
5 GPnpcCr	03-2	1742h	17674	1700	1743	1M07	dDw
5 Gpmb cmb	32-2	1h60	1hh0	1N6	1h41	0M41	dDw
5 nesPT	3h-2	1h3	16h0	1h27	1N3	M0N	dDw
5 nDDr p	60-2	2424	23N	24h	2372	0M2	dDw
&EwDpnwcmb	136-1	06	06	000	036	3M41	dDw
&EwDpnwcmb	136-2	147	167	1N7	167	12M37	dDw
Fpecmb	164-1	2 3	0N0	03N	00h	16M4	dDw
Fpecmb	164-2	167	12	14	144	11M01	dDw
HsonPCmb	167-1	342	0N0	023	41	26M11	dDw
HsonPCmb	167-2	077	237	2 7	2 0	hM21	dDw
y nPb cmb	163-1	N16N4 4	N733642	N740232	N7Nh120	7MN3	dDw
y nPb cmb	163-2	477N1 0	0 30762	0N21014	0N67N4h	0M42	dDw
tCocmb	113-1	62600 4	6212676	67NN423	61NN103	1M43	dDw
tCocmb	113-2	h 742	h10N22	h720hN	h017N	4M02	dDw
tpnC	34-2	323	36h7	342h	343h	4M7	dDw
tpnC	36-2	h3747	h 127	h4706	h30hh	1M03	dDw
tpnC	3 -2	060h	4104	04Nh	0 34	NM1N	dDw
KpEDTnC	N0-1	2N7	234	243	267	M2	dDw
Lr so	276-1	1 h3	1N76	1h76	1N03	0M0	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-76	tOwTpmb Or TusbR:J	8N
5 Pr CTI sb DPP:t&:J	9 y 7Uhh	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J20J1	&sTsUdP:usb r:J	707q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	27 -1	1300	1336	1337	1346	7M3	dDw
Lr so	27N-1	27	1N4	131	1N1	7N0h	dDw
LdTGmb	6-1	247h 32	2434771	206 2 N	2417044	1NN7	dDw
9 sgOr wmb	24-2	177N3N0	1717h22	h 0N4	hh N4	2M7N	dDw
9 sOgsOr wr	33-2	43271	43233	4400h	44h02	1M14	dDw
9 nPEeor Omb	h4-1	1303h	13442	13704	132 N	1M41	dDw
9 nPEeor Omb	h3-1	1N374	1N30N	1N72h	1N03	1M33	dDw
9 nPEeor Omb	h6-1	27N41	27302	1hN 0	27413	2M42	dDw
9 nPEeor Omb	h -1	11422	1160N	17h0N	11000	0M16	dDw
9 nPEeor Omb	hN-1	2h 41	2h063	2h1 0	2h426	7M1N	dDw
u r noEb omb	137-1	3N7	4N	600	36	10M17	dDw
u r noEb omb	137-2	1N	1h	1N0	1Nh	0M3	dDw
u dkr P	67-2	340	300	6 7	3N2	10M7h	dDw
8 GhwDGhpmw	01-2	11	16	N0	122	04N01	dDw
8 nTswwmb	0h-2	22767h	224747	222446	222063	7M	dDw
. Ghomb	170-1	616N7N3	3hNN40N	61112	67Nh26	1M31	dDw
. Ghomb	170-2	01N74N	07147NN	2h12 2h	0703 6N	4M43	dDw
I dsComb	43-1	47N4604	4121003	47h303	4177442	7M46	dDw
I dsComb	43-2	14 N0N	103 N3	103N42	10hN22	4M16	dDw
I r PPomb	N2-1	N7	17h	121	170	27M4	dDw
I r PPomb	-2	7	7	0	1	1 0M21	dDw
I r PPomb	N-2	2h	21	20	24	1 M1	dDw
I dRdnC	2N-1	1h072N41	1hhh0004	1h617711	1h6030h3	1M6	dDw
I dPr p	17 -1	123	1 3	123	142	27N0N	dDw
I dPr p	17h-1	37	42	37	4	17M1N	dDw
I nomb	20-2	4N46 N6	4N 6 h7	4 206N7	4N13 32	1M3N	dDw
I TpnCTomb	N6-1	2h4 N4	2h306h	2h1 76	2h0h30	7M3	dDw
I TpnCTomb	NN-1	26232 N	264 774	23N6 22	261h66N	1M1	dDw
I mPmp	04-1	N14627	N26 37	N11hNh	N1 N6	7M16	dDw
Ar pemb	13h-1	N4N724	N2042hN	N221N22	N012122	1M3	dDw
Ar pemb	13h-2	4716434	0 N24Nh	0 h110	0N3h032	0M30	dDw
AGsPPmb	270-1	47N	242	400	061	2NNN3	dDw
AGsPPmb	273-1	h37	6 3	N77	N7N	1 M10	dDw
AdC	11N-1	2604	2304	2N1	2661	3M47	dDw
AdSomb	4 -1	1723	N3N	h37	h44	NNN4	dDw
RpsComb	20N-1	412	414N3	47114	47h3h	1NN7	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-76	tOwTpmb OrTusb r:J	8N
5PrCTI sb DPP:t&:J	9 y 7Uhh	&dPnTnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J20J1	&sTsUdP:u sb r:J	707q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	31-2	4N	41	43	430	M3	dDw
YTTr pemb	1 2-1	27N	21	27N	211	2M2N	dDw
YTTr pemb	1 2-2	144	111	177	11h	1hM02	dDw
YTTr pemb	1 6-1	1000	11N0	1100	121	NM03	dDw
YTTr pemb	1 6-2	171 1	1704h	h 74	177 4	0M01	dDw
YTTpomb	Nh-1	1101h213	111360Nh	1122120h	112022N1	7M0	dDw
YTTpomb	Nh-2	10006 7	127163h	127111	12434N2	6M10	dDw
ZdCd	66-2	17134	h 37	h30	hN10	0M1h	dDw
ZqpdnComb	h7-1	14041	1433h	10 h1	14207	2MN	dDw
ZqpdnComb	h1-1	2 3	077h	077h	2h01	4M07	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-7	tOwTpmb Or Tusb r:J	8N
5 Pr CTI sb DPP:t&:J	9 y 7Uq7	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J26J13	&sTsUdP:usb r:J	701q. FUM

8spsb r Tr p	9 sww	58I 1	58I 2	58I 0	58I 9 r sC	58I . I &	RCdTw
qPmb oCcmb	2 -2	07	012	012	011	7M10	dDw
qCTb nCE	121-1	00	N0	23	4	66M2	dDw
qpwr Ccd	3-2	2	0	1	2	37M7	dDw
Bspcmb	103-1	3	3N	37	61	27M0	dDw
Bspcmb	10 -1	17N	137	N0	114	2hM3	dDw
Br pEPPmb	h-1	62	67	34	3h	M6	dDw
Bcwb mTG	27h-1	324N1h	323h N	32 2034	3267110	7M20	dDw
Bcwb mTG	27h-2	2N3641	2 731h1	2 6h2h2	2 6h6	2M0	dDw
Bpmb cCr	N1-1	h227	N444	332	N476	hM10	dDw
5sob cmb	17N-1	0N	37	46	44	14M02	dDw
5sob cmb	176-1	0123	0077	0071	0242	0M12	dDw
5sob cmb	111-1	21 N	2021	2016	22 2	0M3	dDw
5sPlcmb	40-1	237	241	224	20N	3M61	dDw
5sPlcmb	44-1	461h3	46000	43N04	46121	7M36	dDw
5spenC	12-1	2h302N7	2N323h4	2N46746	2NN0h 0	2M7N	dDw
5spenC	12-2	021	02 N	026 N	0234N	1M7	dDw
5GPmpcCr	03-1	h47N60	h7NN63	Nhh441	h160h7	2M0	dDw
5GPmpcCr	03-2	3N 6	62h0	6126	67hh	0M44	dDw
5Gpmb cmb	32-2	121	172	1130	1102	NM3	dDw
5nesPT	3h-2	47	67	00	44	01M20	dDw
5nDDr p	60-2	N27	Nh0	2	N10	17M2	dDw
&EwDpnwcmb	136-1	1	1	1	1	7M7	dDw
&EwDpnwcmb	136-2	7	1	0		102M0	dDw
Fpecmb	164-1	42	42	37	44	17M2	dDw
Fpecmb	164-2	07	10	27	21	0hM3	dDw
HsonPCcmb	167-1	42	17N	177	N0	40M3h	dDw
HsonPCcmb	167-2	100	h0	107	11h	1NM6	dDw
y nPb cmb	163-1	N22h	N7h7760	N712210	h6716h	2M4	dDw
y nPb cmb	163-2	0 14167	06h2622	061714	06 2017	1M7	dDw
tCocmb	113-1	3h03h12	672h0hh	67h63N	6727600	1M04	dDw
tCocmb	113-2	Nh2734	Nh176	N 2h11	NN3044	1M2	dDw
tpnC	34-2	32N	411	3 2	374	16M2	dDw
tpnC	36-2	4762	4076	40N4	4231	0M6	dDw
tpnC	3 -2	161	176	137	10h	21M1	dDw
KpEDTnC	N0-1	26	2N4	2N4	2 N	0M0	dDw
Lr so	276-1	37	44	61	32	1M10	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-7	tOwTpmb OrTusb r:J	8N
5PrCTI sb DPP:t&:J	9 y 7Uq7	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpro:J	2720-7 -14:13J26J13	&sTsUdP:usb r:J	701q. FUM

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	27 -1	611	3 2	3N0	3Nh	0M47	dDw
Lr so	27N-1	2h11	2N0h	2h6	2h76	2M27	dDw
LdTGmb	6-1	20636h2	20 36	2014617	2031hh0	1M0h	dDw
9 sgOr wcmb	24-2	100	16	077	277	44M17	dDw
9 sOgsOr wr	33-2	170	37	0	6	03M0N	dDw
9 nPEeor Cmb	h4-1	137	177	177	11	24M3	dDw
9 nPEeor Cmb	h3-1	3N	N0	37	64	2 M13	dDw
9 nPEeor Cmb	h6-1	17N	13N	177	122	23MM1	dDw
9 nPEeor Cmb	h -1	6	6	1	37	3 M0	dDw
9 nPEeor Cmb	hN-1	6	3	42	61	2NM0N	dDw
u r noEb cmb	137-1	7	7		2	1 0M21	dDw
u r noEb cmb	137-2	7	7	7	7	7M17	dDw
u cdkr P	67-2	0	0	7	2	2M66	dDw
8 GhwDGhpmw	01-2	177	3N	177	N6	2 M14	dDw
8 nTswwcmb	0h-2	12h76	123N1	12636	12 14	1M04	dDw
. Ghocmb	170-1	3 6hh74	6147132	6147103	6716 07	0M33	dDw
. Ghocmb	170-2	2h66N63	2N2N10N	2h1h623	2h74N 6	2M40	dDw
I dsCocmb	43-1	0NNN341	47NN113	47 72h1	471364h	2M3	dDw
I dsCocmb	43-2	102N1N	10013N	1077h6	102724	1M2	dDw
I r PCcmb	N2-1	0	-0N	-21	-1h	-17 M2h	dDw
I r PCcmb	-2	7	7	7	7	7M17	dDw
I r PCcmb	N-2	27	10	26	27	00M7N	dDw
I dPdnC	2N-1	2066	2032 4	207240	204763	1M43	dDw
I dPr p	17 -1	h2	177	137	114	2 M7	dDw
I dPr p	17h-1	3N	11	3	N0	06M76	dDw
I nocmb	20-2	2N7 N	2 640	2h24	2N020	2M10	dDw
I TpnCTcmb	N6-1	323	323	46	376	6M06	dDw
I TpnCTcmb	NN-1	h1	N6	642	N7N	1NM12	dDw
I mPmp	04-1	02h206	023hN4	002 42	02h021	1M70	dDw
Ar pecmb	13h-1	h06060	N2062 4	h 4 4h	N74h12h	2M70	dDw
Ar pecmb	13h-2	03h 322	06246h4	041Nh N	034 764	0M13	dDw
AGsPPcmb	270-1	242	037	21	26h	26M07	dDw
AGsPPcmb	273-1	67N	3h2	N7N	66h	1NM71	dDw
AdC	11N-1	1	3	6N0	23	6M47	dDw
AdSCcmb	4 -1	277	11	1N0	16	26M46	dDw
RpsCcmb	20N-1	00	N	1	1h	63M4	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-7	tOwTpmb OrTusb r:J	8N
5RrCTI sb DPr:t&:J	9 y 7Uq7	&dPnTnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J26J13	&sTsUdPr:usb r:J	701q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	31-2	10	1	1	16	12M47	dDw
YTTr peomb	1 2-1	37	37	00	44	21M66	dDw
YTTr peomb	1 2-2	2N	00	0h	00	16M3	dDw
YTTr peomb	1 6-1	17 3	h3N	176	1700	6M07	dDw
YTTr peomb	1 6-2	h3N	hh0	h164	h360	4M73	dDw
YTTpomb	Nh-1	17 61N23	1114062	111 1h02	11723 h3	2M7N	dDw
YTTpomb	Nh-2	11 h63	1132106	114 63	113hN1	1M4h	dDw
ZdCd	66-2	110	h	14	11h	21M41	dDw
ZqpdnComb	h7-1	0 3	4N0	077	0N6	20MN	dDw
ZqpdnComb	h1-1	1	37	h2	30	1M27	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:b er pl Da	LB126466	. &l DPAFDa	l P8NPu
LPp:t Pr &ul:T :a	SS03-3	TU8ADer Ul Ab Pr l :a	ms
SudlUAt Pr &ul:T :a	SS03-3	i deAFU:RPoAFDa	1
i PA:c:qdr l:OonedD C:a	232-73 714:1Ja4sa3w	i PAPRdl:b Pr l :a	3-4SS0M

mPDPr l A D	9 P88	Smt 1	Smt 2	Smt -	Smt 9 l PU	Smt y t i	5 UdB
Ouer dUder	2 72	212621	23ws-J1	23163w	23s3222	2MJ	o&8
OUAt FUh	12171	2 -Js6	2 14J6s	26s - 2	2 12632	3M3	o&8
OD8l Udb	J72	J42s	--s3	244-	- J1	2M	o&8
BPDder	1-J71	2ws 2-6	-31 w3-	2wJw6 6	2wss2 1	3Mw	o&8
BPDder	1- 71	J3w3J1-	J146 32	J111 J3	J116-22	3MJ	o&8
Bl Dhuder	w71	34 Js	6wJ1J2	6wJ141	6ws-J3	3Mw	o&8
Bd8r eÆE	23w71	J-1sw13	J1w w3w	J22ss3w	J24sJ42	1M23	o&8
Bd8r eÆE	23w72	26ws-J1	2J s J	2J2s4	2631J6s	-M6	o&8
BDFr dUl	s171	41 6	4-6	4Js4	4- 6	4M	o&8
SPOr der	13s71	J6-w3	J6sss	J 3s3	J6 s6	3M-	o&8
SPOr der	13671	s2-JJ	s3J32	s1 4-	s1J--	1M16	o&8
SPOr der	11171	-J3-s	24--s	14323	2446J	1M4J	o&8
SPuder	4-71	43s124w	43-sw16	43- 1s4	43J24J3	3M62	o&8
SPuder	4471	6Jws16 3	643s2362	6J64 14w	6J2-6w63	1MJ	o&8
SPDpFU	1271	2ww13ss	-34w 61	-3 2 3	-3- sJ2	1Mw	o&8
SPDpFU	1272	43164	4311-	-w434	-wsw4	1M	o&8
SEuFDUl	-J71	-6 1J	-6 662	-6J 1w	-66s46	3M2	o&8
SEuFDUl	-J72	26 J	2s6	2--4	262J	13M2w	o&8
SEDFr der	J272	s121	44623	J3 1	J s-	2MJ	o&8
SFpPuA	Jw72	14-42w-	1--1Jws	1-16Js4	1-63s2J	4M1	o&8
SF&&l D	6-72	1144-ws6	113J-JJ	13 1Js2s	113 1124	-M2w	o&8
i h8&DF8der	1J671	3s	6J3	633	6J-	sM1	o&8
i h8&DF8der	1J672	-2	2J-	26	2s2	1-M4	o&8
GDpder	16471	1w2	1J3	12J	1J6	21M0J	o&8
GDpder	16472	4-	-	4	42	12M36	o&8
HPCFudUder	16371	2J	66	6Js	6s-	JM2	o&8
HPCFudUder	16372	4 -	-s-	-w-	41	11M4	o&8
KFur der	16J71	s43Js 6	s34 w2	s1ss44-	s2143-	2M23	o&8
KFur der	16J72	- 1 ws4	- 3J1s-	-JJJ32	-6Jw-ws	2M4s	o&8
TUCder	11J71	63w116s	613413s	63-32-2	63 J16w	3M0J	o&8
TUCder	11J72	s63 s2	s- 6J2	s2-J12	s4364s	2M24	o&8
TDFU	J472	s 114 4	s412w1J	s4111-w	sJ11s4-	2M-	o&8
TDFU	J672	1J6ss6 Jw	1J--4- 3	14w1w23w2	1J-143s 4	2M1	o&8
TDFU	J 72	-wws62	-wJ2s23	-sw2644	-w4s3-3	1MJ	o&8
gDh&AFU	s-71	26J	266	-36	2 w	sM41	o&8
LI PC	23671	11w33662	116w- 41	11 -4- s	11 6263	3M-	o&8

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LPp:t Pr &ul:T :a	SS03-3	TU8ADer Ul Ab Pr l:a	ms
SudlUAt Pr &ul:T :a	SS03-3	i deAFU:RPoAFDa	1
i PA:c:qdr l:OonedD C:a	232-73 714:1Ja4sa8w	i PARRdl:b Pr l:a	3-4SS0M

mPDPr l A D	9 P88	Smt 1	Smt 2	Smt -	Smt 9 l PU	Smt y t i	5 UdR
LI PC	23 71	1323s6ws	132s6w-	133s4sw6	131w-J11	1M33	o&8
LI PC	23s71	4 2 343w	4 -s32 J	46264sw6	46w 1s63	1M1	o&8
LdAder	671	243- 11	2-w6 6-	2- 263w	2-w132s	3M0s	o&8
9 PkUl 8der	2472	2wwwJJsw	2wJ6s41	2s414- 4	2w-2612	2Mw	o&8
9 PUkPUl 8l	JJ72	-w2J24w	-s1J-6w	-s23JJ1	-sJ- 2-	1M61	o&8
9 FuhpCl Uer	w471	w4642--	wJw11s2	wJ-J64w	wJ-3-JJ	3M0	o&8
9 FuhpCl Uer	wJ71	1- 6 462	14-4w6s-	1413wJ-s	143 JJ61	2M3s	o&8
9 FuhpCl Uer	w671	1J23J443	1JJ4-Jss	1J-2 3-	1J-Jsw11	1M11	o&8
9 FuhpCl Uer	w 71	sJ161	s4w1sw	s464ww1	s4w1321	3M3	o&8
9 FuhpCl Uer	ws71	22J4sw 1	22J 2 -6	22163w-2	2242 J4	1M3-	o&8
bl FChr der	1J371	22	1s3	1 -	1w-	1JM3-	o&8
bl FChr der	1J372	-	2	--	-2	1JM43	o&8
bdbvl u	6372	- 4J24	-63swJ	-J343J	-61w41	-M4	o&8
mEF8&EFDe8	-172	21 w2	212ww	23 4w	212s3	2M4J	o&8
mFAP88der	-w72	w2w22-w	w221- 2	w32J642	w1 w J1	1M3	o&8
y EFCder	13-71	633J-4s	JsJ6wJJ	Js213w	Jsw446	1M06	o&8
y EFCder	13-72	2s-1 w	266w33-	2J6w4s2	26w33ss	4MM2	o&8
t oPUCder	4J71	424 133	414s661	41-J2ww	41 323	1M46	o&8
t oPUCder	4J72	1-2s-1	1-1w2-	12w-2-	1-1-Jw	1Mw	o&8
t l uUder	s271	4s6s6	4s 13	4s62w	4s6 J	3M3w	o&8
t l uUder	72	142-	1413	14w3	1441	2Mv	o&8
t l uUder	s72	4w2-	4w63	4 3J	4s6-	2M4-	o&8
t dbFU	2s71	1w J262	236J-46	23J6JJs	23-2-sw	2M44	o&8
t dfl D	13 71	-4J63J2	--6w4-1	--ss33s	-4344w	1M4	o&8
t dfl D	13w71	-244-ww	-24-646	-2-J3 4	-2413-w	3M16	o&8
t FCder	2-72	J-1-ww2J	J2-6626w	J3434s14	J1w 3--6	2M1	o&8
t ADFUAder	s671	1w6 -J6-	1w 14-43	23166w44	1wsJ1616	1Ms	o&8
t ADFUAder	ss71	16w -4w1	16ws3 J4	1 1ss423s	1 34ss4s4	3M1	o&8
t eUéD	-471	641wss	6-6w44	6-3w24	6-661w	3M4	o&8
ql Dpder	1Jw71	s 36 21	s-- 1s1	s42- 46	s4sw216	2M2s	o&8
ql Dpder	1Jw72	-62J636	-Js4J4	-J34sJ6	-J 16 3	1M2	o&8
qEPuder	23-71	2s2s334	2s26s6w	2s2w46	2s2s114	3M3J	o&8
qEPuder	23J71	6664s4	6J 6-1-	6J132--	6Js- ws	1Ms	o&8
qdU	11s71	21ww664	212s33w	21JswJ-	216223w	1M06	o&8
qdRPUder	4 71	-s --12	-s22 -	-sJw6ss	-sJ1w24	3M0s	o&8
5 DPUder	2-s71	wJ w 4	wJ23 4J	w-2-ws4	w4 4s2J	1M41	o&8

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LPp:t Pr &ul:T :a	SS03-3	TU8ADer Ul Ab Pr l:a	ms
SudlUAt Pr &ul:T :a	SS03-3	i deAFU:RPoAFDa	1
i PA:c:qd l:OonedD C:a	232-73 714:1Ja4sa8w	i PARRdl:b Pr l:a	3-4SS0M

mPDPr l AD	9 P88	Smt 1	Smt 2	Smt -	Smt 9 l PU	Smt y t i	5 UdR
0PUPCder	J172	Jwsw-s	Js3s-3	J 13ss	Js-61w	2M42	o&8
YAADpder	1 271	1Js	13s	1s-	1J3	2JM46	o&8
YAADpder	1 272	s	s	61	2	1-M-	o&8
YAADpder	1 671	121ws	12 43	12Js1	12J36	2M4-	o&8
YAADpder	1 672	14sJw	1461w	14-4	1463s	1MJ	o&8
YAADder	sw71	116ww2sw	112 2ss-	11J436J	11J342 6	1M4	o&8
YAADder	sw72	11s422w	11424J2	112-w13	11J31w	2M6w	o&8
ZdUo	6672	1-J3631	1-22	12s- 12	1-1w3-3	2MJ	o&8
ZdDoFUder	w371	4 sJ 3w	46wssJ	46sJ442	4 2---6	1M1J	o&8
ZdDoFUder	w171	1311144	13-2J-4	132433	1322J62	1M3J	o&8

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LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DPP t& J	SSB030	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DPP t& J	SSB030	&dPmTC. MsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J. 2J13	&sTsMdPP u sb r J	03: SSBFUb

8 sps b r Tr p	5 sww	S8 l 1	S8 l 2	S8 l 3	S8 l 5 r s.	S8 l 9 l &	R. dTw
qPmb c omb	27-2	207	27y	276	2: 4	1: Uy1	dDw
q. Tb C. h	121-1	12: y	13: N	1267	12y:	4U2N	dDw
qpwr . cd	7: -2	13	N	13	11	2: U47	dDw
Bspomb	13: -1	117:	77:	2N3	74:	60U00	dDw
Bspomb	137-1	1634	y67	N33	114:	37U47	dDw
Br phPmb	y-1	266	216	112	1yN	3yU4	dDw
Bcwb mTE	20y-1	: 0yN34N	: 3y61Ny	604213N	: : 1222:	NU7:	dDw
Bcwb mTE	20y-2	2N67: y3	2N23301	27N: 3y7	2N2: 430	1U46	dDw
BpCb c r	N1-1	3N42	4176	4401	4140	6U7y	dDw
Ssob omb	10N-1	7:	7:	: 4	6N	17U67	dDw
Ssob omb	106-1	2N0y	3067	3442	3106	10U26	dDw
Ssob omb	111-1	21y3	22y0	24y2	232:	6U7	dDw
SsPlomb	43-1	114y	N60	630	NN0	2yU6	dDw
SsPlomb	44-1	634y7	: : : 44	: 3y21	: 76: 4	NUNy	dDw
SspeC.	12-1	2: 7y73N	2: y: 461	2: : 43: y	2: 76: 1y	0UN0	dDw
SspeC.	12-2	30: y1	30073	30474	3037y	0UNy	dDw
SEPOpc r	3: -1	301414	3044: y	30: 626	303N33	0U72	dDw
SEPOpc r	3: -2	2442	2034	21N4	2220	yU31	dDw
SEpCb omb	: 2-2	11y0	1333	1060	11y:	11U4:	dDw
SCesPT	: y-2	1: 7	200	207	1NN	14U46	dDw
SCDDr p	63-2	1N67	2420	2360	2216	13U71	dDw
&hwDpOwomb	1: 6-1	2:	N	2:	1y	4yU0	dDw
&hwDpOwomb	1: 6-2	7	7	3	6	34U70	dDw
Fpeomb	164-1	2:	: N	N3	: 6	: 2U6N	dDw
Fpeomb	164-2	27	17	27	23	24U74	dDw
GsoCPe omb	160-1	7:	: 0	10N	7N	37U63	dDw
GsoCPe omb	160-2	y3	y0	140	10N	2: Uy4	dDw
HCPb omb	16: -1	746N67:	776N444	y006: 73	N0N1230	10U0y	dDw
HCPb omb	16: -2	37y737:	37N3613	3N: 1: 34	3N10N41	0Uy4	dDw
t. oomb	11: -1	: y1N: 26	607: 4N2	6N7621y	62y007:	NU17	dDw
t. oomb	11: -2	Ny66: 2	Ny4640	y21: 3y	y04277	1U66	dDw
tpC.	: 4-2	N06	117N	1267	10N3	22UN	dDw
tpC.	: 6-2	13073	1N112	1N001	163y6	17U:	dDw
tpC.	: 7-2	3y4	: 22	: 3y	4N:	16U2y	dDw
KphDTC.	N3-1	271	267	2N7	27:	3UN6	dDw
Lr so	206-1	422:	326N	1N67	3120	3NU02	dDw

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Inst Id :P8

LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DPP t& J	SSB030	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DPP t& J	SSB030	&dPmTC. MsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J: 2J13	&sTsMdPP usb r J	03: SSBFlb

8spsb r Tr p	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
Lr so	207-1	2y6N	34: 1	17Ny	2736	31U2:	dDw
Lr so	20N-1	1: 02y	1: 4: 3	N074	12N: 2	32U24	dDw
LdEmb	6-1	2200: 72	2334N30	2: yyy02	237N43:	NUJ4	dDw
5 sg. r wmb	24-2	1N: y	32N4	2y42	26y:	27U62	dDw
5 s. gs. r wr	: : -2	270	417	443	377	24U7N	dDw
5 CPheor . mb	y4-1	3770	2N76	16N4	2777	37U70	dDw
5 CPheor . mb	y: -1	6611	40y4	1y: 0	421N	: : U31	dDw
5 CPheor . mb	y6-1	: yNy	4444	2776	4403	36UJ0	dDw
5 CPheor . mb	y7-1	: 0y2	2134	1: 2:	2y17	6: U40	dDw
5 CPheor . mb	yN-1	61N0	: y46	41y4	: 440	1yUy6	dDw
ur Cohb mb	1: 0-1	7	20	13	13	4yUyy	dDw
ur Cohb mb	1: 0-2	3	0	7	3	100U0:	dDw
udkr P	60-2	67	77	63	6y	10U0N	dDw
8 EOwDECpmw	31-2	7:	7:	142	y7	3yUJy	dDw
8 CTswwmb	3y-2	16: N:	16: 27	1: 701	16271	3U04	dDw
9 EComb	103-1	: 742N27	60: N321	67NNNNy	61y667y	NU66	dDw
9 EComb	103-2	2y677: N	2y6y: y6	30204: y	2yN: y3N	1U00	dDw
l ds. omb	4: -1	3y12021	3y70700	4471N66	411N1y6	7U47	dDw
l ds. omb	4: -2	13: 14:	136337	137743	13640N	0Uy:	dDw
l r PP. mb	N2-1	1	N	-16	-3	-4y2U44	dDw
l r PP. mb	77-2	3	3	0	2	N6U60	dDw
l r PP. mb	7N-2	1:	1N	1y	17	12U01	dDw
l dPdC.	2N-1	23141y	234400	22y370	23172y	1U0y	dDw
l dPr p	107-1	242	1: 0	2: 0	214	2: Uy4	dDw
l dPr p	10y-1	1N3	117	200	167	26U46	dDw
l Comb	23-2	41N61	44627	4270:	43064	3U2y	dDw
l TpC. Tmb	N6-1	: y1:	6301	222:	4N14	46U74	dDw
l TpC. Tmb	NN-1	: : 7N7	3y6N1	16yy7	374NN	: 1UyN	dDw
l mPmp	34-1	341y: 1	34Ny3y	34NyNy	346627	1U17	dDw
Ar pemb	1: y-1	77y0: 60	7y66: y0	y1402: 0	N2yy133	NUN4	dDw
Ar pemb	1: y-2	3641y7:	36N6246	36y66N4	3674y6y	0U7y	dDw
AEs PPmb	203-1	1342	1467	y7:	1261	20U27	dDw
AEs PPmb	20: -1	74: 4	2y43	227:	4224	66U6y	dDw
Ac	11N-1	17N4	1434	y17	137N	31U6:	dDw
AdS. mb	47-1	11: y	10y2	6: 0	y67	2NUJN	dDw
Rps. mb	23N-1	17y2	23y4	733	1640	: 1U26	dDw

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Lse l sb DPP t& J	SSB030	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DPP t& J	SSB030	&dPmTC. MsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J. 2J13	&sTsMdPP u sb r J	03: SSBFlb

8spsb r Tp	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
Vs. soomb	: 1-2	17	N3	60	: 3	63U42	dDw
YTTr peomb	172-1	: N	2:	: N	47	40U76	dDw
YTTr peomb	172-2	17	11	3y	22	66U14	dDw
YTTr peomb	176-1	1033	y0N	y00	y47	7UNy	dDw
YTTr peomb	176-2	y732	10060	y7yN	yN63	1U76	dDw
YTTpomb	Ny-1	107N3174	1131312y	12: 414y1	11: 4: y32	7UN1	dDw
YTTpomb	Ny-2	11yy623	117: 2N0	121716:	11y73: 6	1U76	dDw
Zc d	66-2	2: 3	277	273	26N	4U71	dDw
ZqpdC. omb	y0-1	2076	147:	1267	1606	26U16	dDw
ZqpdC. omb	y1-1	32:	267	200	264	23U70	dDw

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Inst Id :P8

LBaumb er pas	LB126466	n Dr pl TCpas	wl P8 l N
Ll ea l b DNla&asa	SB103-74BL	t. PTpmb . r Tau l b ras	S-
FNr . Tal l b DNla&asa	SBI -74	&dNTC. aRl dTCpas	1
&l Tr ai aAdb r aqdOmpr oas	2 23: J:14a10s00s10	&l Tl RdNau l b ras	36FFBUM

Sl pl b r Tr p	9 l PP	FSI 1	FSI 2	FSI 3	FSI 9 r l .	FSI y l &	5. dP
qNmb c omb	2J:2	72	-2	1 6	74	12M2	dDP
q. Tob C. h	121:1	172	30	372	311	33M2	dDP
qpPr . cl	J0:2	6	0	1	4	66M4	dDP
Bl pomb	130:1	133	72	J0	1	3 M0	dDP
Bl pomb	13J:1	2	1 -	1-3	164	27M7	dDP
Br phNNmb	7:1	1 J	J	-2	-J	22M3	dDP
BdPb mE	2 7:1	0014141	0407430	04-6704	04-6-43	M	dDP
BdPb mE	2 7:2	2-6-J36	2--3007	27 7 J	2--J1 1	M1	dDP
BpCb c r	-1:1	3J-4	3701	3701	3-70	2M4J	dDP
Fl ob omb	1 -:1	27	20	33	27	14M2-	dDP
Fl ob omb	1 6:1	3J1J	3J 1	341J	3612	4M6J	dDP
Fl ob omb	111:1	26 2	262J	2374	2041	0M0	dDP
Fl Nlomb	43:1	2-2	326	266	272	1 M04	dDP
Fl Nlomb	44:1	40370	4014-	40212	40202	M2-	dDP
Fl peC.	12:1	20-7064	26 4147	20-6740	2073002	M06	dDP
Fl peC.	12:2	3101-	3 041	31 0	31 36	1M0J	dDP
FENQpc r	30:1	34 44-	341107	3436-J	341J60	M	dDP
FENQpc r	30:2	20 7	2242	266J	24J2	-M67	dDP
FEpCb omb	02:2	123J	1 0J	11	1131	-M31	dDP
FCel NT	07:2	-J	-3	0	J3	2JM60	dDP
FCDDr p	63:2	11-J	1 3	11 J	11 -	JMJ	dDP
&hPDpCPomb	106:1	-	-	1J	11	43M34	dDP
&hPDpCPomb	106:2	3			1	1J3M21	dDP
Upeomb	164:1	J0	-3	0	67	24M7-	dDP
Upeomb	164:2	2J	1J	13	17	36M0	dDP
Gl oCNl omb	16 :1	J0	0-	6J	6J	12M	dDP
Gl oCNl omb	16 :2	113	11J	143	124	13M21	dDP
HCNl omb	160:1	J760 J6	J774467	-1-J-1	- 4711-	1M	dDP
HCNl omb	160:2	3-42-33	3J0J67-	3JJ 61	3J7 3-	1M21	dDP
t. oomb	110:1	642-6-4	6244JJ3	62J0 0-	63161J2	1M06	dDP
t. oomb	110:2	-760 6	71701	7 J31J	7 JJJ-	1M2J	dDP
tpC.	04:2	444	4J2	01J	4J-	JM63	dDP
tpC.	06:2	0 01	4670	4 34	4073	11M24	dDP
tpC.	0J:2	222	22-	16J	2 6	16M44	dDP
KphDTC.	-3:1	261	24J	2J7	262	0M7J	dDP
Lr l o	2 6:1	761	1122	706	1 13	7M30	dDP

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBaumb er pas	LB126466	n Dr pl TCpas	wl P8l N
Ll ea l b DNla&asa	SB103-74BL	t. PTpmb . r Tau l b ras	S-
FNr . Tal l b DNla&asa	SBI -74	&dNTC. aRl dTCpas	1
&l Tr ai aAdb r aqdOmpr oas	2 23: J:14a10s00s10	&l Tl RdNau l b ras	36FFBUM

Sl pl b r Tr p	9 l PP	FSI 1	FSI 2	FSI 3	FSI 9 r l .	FSI y l &	5 . dP
Lr l o	2 J:1	761	J6J	-33	-04	11MJ	dDP
Lr l o	2 -:1	42	42-4	4 34	41J3	3M0	dDP
LdEcmb	6:1	24 4711	2374 72	24J6704	2420317	1M6	dDP
9 l g. r Pcmb	24:2	333	4J0	4 -	4 6	1JM-	dDP
9 l . gl . r Pr	00:2	11	14J	14	132	14MJ	dDP
9 CNeor . mb	74:1	020	320	3 -	3-6	31M3	dDP
9 CNeor . mb	70:1	3 -	3 -	26J	274	-MJ	dDP
9 CNeor . mb	76:1	46J	40	442	403	2M1	dDP
9 CNeor . mb	7J:1	20	1-3	10-	17J	24M3	dDP
9 CNeor . mb	7-:1	620	60-	00	611	7M-	dDP
ur Cohb cmb	10 :1	J		2	7	114M0	dDP
ur Cohb cmb	10 :2	13		J	J	77M-	dDP
ucdkr N	6 :2	6	6J	3J	04	2-M3	dDP
SECPDECpmP	31:2	1 -	-3	1 -	1	14M3	dDP
SCTPPcmb	37:2	13-47	14347	1470	143-3	3M3	dDP
y ECocmb	1 3:1	63102-	62727J-	61J-J77	6262302	1MJ	dDP
y ECocmb	1 3:2	272730J	27J0-62	2703-43	2703 21	M7	dDP
l dl . ocmb	40:1	4 707--	42J213-	4 -7336	41024-J	2M	dDP
l dl . ocmb	40:2	1306J2	1377-2	13J20-	13J63J	1M-	dDP
l r Nl . cmb	-2:1	2-	:4	:00	:1	:377M6	dDP
l r Nl . cmb	JJ:2	3		3	2	-6M	dDP
l r Nl . cmb	J-:2	13	12	23	16	3-M2	dDP
l dNdC.	2-:1	23 010	2270-4	2230-2	22J-73	1M0	dDP
l dNr p	1 J:1	3 -	20	242	26J	13M2	dDP
l dNr p	1 7:1	2 -	2-3	20-	20	10M-	dDP
l Cocmb	23:2	30201	33014	34 -2	342-3	2M-	dDP
l TpC. Tcmb	-6:1	7	J0-	620	J61	1-MJ	dDP
l TpC. Tcmb	--:1	3101	3 6J	21-4	2- 1	17M4	dDP
l mNmp	34:1	30J2--	304444	304J1	3004-1	M4	dDP
Ar pecmb	107:1	-027 41	-423671	-40 J 7	-46J-14	M0	dDP
Ar pecmb	107:2	3J34470	3J26-31	3J -27	3J232 6	M6	dDP
AEl NNmb	2 3:1	633	-1J	01J	606	23MJ	dDP
AEl NNmb	2 0:1	13 -	146J	1142	13 6	12M0	dDP
Ac	11-:1	-0-	J0	JJ0	J74	JM4	dDP
AdT . cmb	4J:1	172	2	1J0	1-7	6M4	dDP
5 pl . cmb	23-:1	16J	1 -	142	137	21MJ	dDP

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Inst Id :P8

LBaumb erpas	LB126466	n Dr pl TCpas	wl P8l N
Ll ea l b DNla&asa	SB103-74BL	t. PTpmb . r Tau l b ras	S-
FNt . Tal l b DNla&asa	SBI -74	&dNTC. aRl dTCpas	1
&l Tr ai aAdb r aqdOmpr oas	2 23: J:14a10s00s10	&l Tl RdNau l b r as	36FFBUM

Sl pl b r Tr p	9 l PP	FSI 1	FSI 2	FSI 3	FSI 9 r l .	FSI y l &	5 . dP
Vl . l oomb	01:2	1	2J	3	13	7 M6	dDP
YTTr pe omb	1J2:1	6J	1J	33	37	60M4J	dDP
YTTr pe omb	1J2:2	2-	44	44	37	24M0	dDP
YTTr pe omb	1J6:1	1120	110	1 20	11	6M1	dDP
YTTr pe omb	1J6:2	1 43	1 126	1 21	1 126	M2	dDP
YTTpomb	-7:1	111 413J	1114 770	110721J	112J71 1	2M41	dDP
YTTpomb	-7:2	11-47-0	1214103	12 632	12 1-17	1M26	dDP
Zc d	66:2	16J	13J	163	106	1 M0J	dDP
ZqpdC. omb	7 :1	0	00-	01J	020	0M2	dDP
ZqpdC. omb	71:1	72	11J	10	117	24M0	dDP

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LBsmbe r plsw	LB126466	n DplPTClsw	l P8NPu
LPr s Pe Dupst&sws	SB103-74B	t. 8Tbe . pTsmPe psw	S-
Fupp. Ts Pe Dupst&sws	LF -74	&dbTC. sRPdTClsw	1
&PTpsi sAce psqdCbdposw	2: 23J: aJ14s10w0-w1-	&PTPRqpsmPe psw	: 3aLF UM1

SPlPe pTpl	9 P88	FS 1	FS 2	FS 3	FS 9 pP.	FS y &	5 . d8
qube c dbe	2aJ2	1006	1031	1006	104-	: M73	dD8
q. Tde C. h	121J1	16a: 2	163aa	16-36	1663-	1M42	dD8
ql8p. dd	a0J2	20-	216	240	24:	-M7a	dD8
BPldbe	130J1	1-: : 4	1a0-a	1-1a1	1a721	1M0-	dD8
BPldbe	13aJ1	3: a-6	31076	3122:	312: 1	1M3:	dD8
Bplhudbe	7J1	2317	23-2	227:	233:	2M3	dD8
Bd8e bTE	2: 7J1	04-4-23	0660763	04716-4	004a47:	1M0	dD8
Bd8e bTE	2: 7J2	2-64242	27-6263	273a6: -	27273a1	2M1:	dD8
BlCe c p	-1J1	4: -4	3-a6	3-1a	3726	3M0a	dD8
FPoe dbe	1: -J1	246	2: :	133	173	27M3:	dD8
FPoe dbe	1: 6J1	4126	3672	34-4	3a6a	-M07	dD8
FPoe dbe	111J1	4aa:	46: a	46: :	4607	2Ma	dD8
FPudbe	43J1	12102	11701	11771	12: 31	: M7	dD8
FPudbe	44J1	23a736	23-: 30	237423	23-460	: M30	dD8
FPlr C.	12J1	20-7: : 3	20-1: 76	2617460	2076021	: M4-	dD8
FPlr C.	12J2	31: -4	3: 6a4	31630	31131	1M00	dD8
FEuClc p	30J1	333-21	3311a0	32-a13	331236	: M4a	dD8
FEuClc p	30J2	2442	2372	2234	2306	4M62	dD8
FElCe dbe	02J2	61- -	610-	6411	6203	2M21	dD8
FCr PuT	07J2	4-34	4-: 1	4074	4a43	2M44	dD8
FCDDpl	63J2	-a77	-006	-7-3	-aa7	2M44	dD8
&h8DlC8dbe	106J1	1a	-	-	11	43M34	dD8
&h8DlC8dbe	106J2	3	3	:	2	-6M0:	dD8
Ulr dbe	164J1	72	1: -	0:	-3	36M6	dD8
Ulr dbe	164J2	2:	13	3:	21	37M40	dD8
GPoOuc dbe	16: J1	42	0-	1: :	6a	40M6	dD8
GPoOuc dbe	16: J2	12a	143	1: 3	124	16M14	dD8
HOue dbe	160J1	-21617:	-37-2: a	a7713: 4	-2: 17: :	2M47	dD8
HOue dbe	160J2	3a44: 66	3-2-aaa	371330-	3-2-a33	2M21	dD8
t. odbe	110J1	64: -3: 7	64: 2: : 4	63-11a6	637a163	: M22	dD8
t. odbe	110J2	716632	714a37	72616-	7171-:	: M0a	dD8
tIC.	04J2	237-a	23: 41	23-a6	23630	2M17	dD8
tIC.	06J2	42: 026	4141-a	41-: 1-	41a0aa	: M46	dD8
tIC.	0aJ2	11121	1: 3a6	1: 0a6	1: 671	3M61	dD8
KIhDTC.	-3J1	26:	247	276	26-	7M20	dD8
LpPo	2: 6J1	-120	a017	a-71	a-40	3M7:	dD8

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBsmbe r plsw	LB126466	n DplPTClsw	l P8NPu
LPr s Pe Dupst&sws	SB103- 74B	t. 8Tbe . pTsmPe psw	S-
Fup. Ts Pe Dupst&sws	LF - 74	&dbTcC. sRPdTClsw	1
&PTpsi sAce psqdCbdposw	2: 23J: aJ14s10w0- w1-	&PTPRqpsmPe psw	: 3aLF UM1

SPlPe pTpl	9 P88	FS 1	FS 2	FS 3	FS 9 pP.	FS y &	5 . d8
LpPo	2: aJ1	a: 67	6- - :	6- 0-	6730	1M6a	dD8
LpPo	2: - J1	3141:	31377	31000	31404	: M4-	dD8
LdEdbe	6J1	24026- 6	24a0- 4-	2471a- :	24a343-	: M47	dD8
9 Pg. p8dbe	24J2	1: 26- a	77: - 6	1: 3: 31	1: 16: 1	2M10	dD8
9 P. gP. p8p	00J2	134a	13- a	133a	130a	1M70	dD8
9 Qhr op. be	74J1	1a403	16a30	1a32:	1a167	2M22	dD8
9 Qhr op. be	70J1	21a26	21426	210: :	21001	: M43	dD8
9 Qhr op. be	76J1	23- 3-	23604	24300	23747	1M02	dD8
9 Qhr op. be	7aJ1	132a3	13047	14366	13a27	4M14	dD8
9 Qhr op. be	7- J1	33a33	30312	307a3	30: : 6	3M27	dD8
mpCohe dbe	10: J1	2:	:	13	11	71M06	dD8
mpCohe dbe	10: J2	a	:	:	2	1a3M21	dD8
mdlkpu	6: J2	1203	1403	14: a	13a1	aM03	dD8
SEC8DECIb8	31J2	172	6a	1: :	117	04M17	dD8
SCTP88dbe	37J2	aa316	a6470	a4aaa	a6176	1M4:	dD8
y ECodbe	1: 3J1	64323- 6	63: 7341	636aa71	6367- 37	: M7a	dD8
y ECodbe	1: 3J2	2706224	3: 117: :	3: a406:	3: 1422-	1M76	dD8
dP. odbe	40J1	42- 4174	4240- : 7	4214207	424- : - a	: M2	dD8
dP. odbe	40J2	14: : a1	137412	137342	1376: -	: M27	dD8
pup. dbe	- 2J1	a66	- 6:	a- 7	- : 0	6M-	dD8
pup. dbe	aaJ2	2a	2:	3:	26	17M72	dD8
pup. dbe	a- J2	71	7-	7-	76	4M22	dD8
odC.	2- J1	2- aa04	2- - 237	2- 67: 3	2- a632	: M24	dD8
ovpl	1: aJ1	11: 21	1: 663	1: 43-	1: a: a	2M40	dD8
ovpl	1: 7J1	1: : a1	1: 004	1: 404	1: 36:	2M46	dD8
Codbe	23J2	21: 627	2: 6376	2: a2: -	2: - : a-	1M-	dD8
TC. Tbe	- 6J1	3: 72	3372	33: 7	3264	4M44	dD8
TC. Tbe	- - J1	24: 27	23: 40	23612	23062	2M1:	dD8
bufbl	34J1	304- 07	300- 6a	30- : - 2	3062a:	: M46	dD8
Aplr dbe	107J1	- 67770-	- 036: a6	- 3a34- 3	- 0360: 0	1M71	dD8
Aplr dbe	107J2	36727- :	3a0a: 14	36- 2a: 6	3a1: 7: :	1M7	dD8
AEPudbe	2: 3J1	- 470	- 0- 6	- 42:	- 0: :	: M-	dD8
AEPudbe	2: 0J1	2: a20	17771	21: a6	2: 07a	2M67	dD8
Ac	11- J1	- 20	a72	- : -	- : -	2M6	dD8
AdP. dbe	4aJ1	626:	661:	6173	6304	3M02	dD8
5 IP. dbe	23- J1	2a1- -	2a3- :	2a606	2a4: -	: M6	dD8

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Inst Id :P8

LBsmbe r plsw	LB126466	n DplPTCIsw	l P8NPu
LPr s Pe Dupst&sws	SB103- 74B	t. 8Tlbe . pTsmPe psw	S-
Fuqp. Ts Pe Dupst&sws	LF - 74	&cbTcC. sRPdTCIsw	1
&PTpsi sAce psqdCbcdposw	2: 23J: aJ14s10w0- w1-	&PTPRqpsmPe psw	: 3aLF UM1

SPIPe pTpl	9 P88	FS 1	FS 2	FS 3	FS 9 pP.	FS y &	5 . d8
VP. Podbe	01J2	70- 3	7- : 3	763a	76a4	1M17	dD8
YTpIr dbe	1a2J1	42	-	a0	42	- : M:	dD8
YTpIr dbe	1a2J2	1a	2-	37	2-	37M7	dD8
YTpIr dbe	1a6J1	12: :	1: 6a	12: -	110-	6M6	dD8
YTpIr dbe	1a6J2	7a2:	7a04	1: 41:	7761	3M1:	dD8
YTTdbe	- 7J1	116000a2	1107: 261	114: 00a-	1100: 4a1	1M12	dD8
YTTdbe	- 7J2	12: 747:	12: - a63	1214- - 0	1211: 46	: M4-	dD8
Zc d	66J2	204:	247a	223:	2422	6M13	dD8
ZdcdC. dbe	7: J1	14- 42	14: 66	142: -	143a2	2Ma	dD8
ZdcdC. dbe	71J1	3242	2772	3: 42	3: 72	4M4-	dD8

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-31	Dns&umne&Name :	P8
RIAen&pamI le D :	c46c2	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO:	2320-37-14 16:31:23	t a&aFAe Name :	308c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
clumAnAum	27-2	119y3	11911	118y0	1193y	3U41	ql s
cn&Amonh	121-1	62830	62104	61937	62281	3U7y	ql s
crsenAq	7y-2	1yy1	1y24	1y46	1y41	3U90	ql s
BarAum	10y-1	17y8	18y9	1y67	1728	8Uy8	ql s
BarAum	107-1	2967	0139	0304	0307	2U00	ql s
BerhlIAum	9-1	22013	22171	21y47	22339	1U8y	ql s
BAsmu&E	239-1	yy893yy	y49721y	yy0411y	yy43128	3U80	ql s
BAsmu&E	239-2	2806y44	2817300	2840427	280200y	3U48	ql s
BromAne	81-1	4y31	4426	4031	4439	2U29	ql s
RaOmAum	138-1	82y	7y8	800	836	yU13	ql s
RaOmAum	136-1	4490	4604	4342	4093	7U34	ql s
RaOmAum	111-1	14614	1y206	14364	14608	4U33	ql s
RalqAum	40-1	4129	4374	0934	430y	2U91	ql s
RalqAum	44-1	13609y	13676y	134294	13y818	1U26	ql s
Rarbon	12-1	26yy937	2622y48	2646y61	2641672	3U6y	ql s
Rarbon	12-2	010y9	02086	02687	02144	2U17	ql s
REIorAne	0y-1	7621722	13213203	12301396	99y4049	22U26	ql s
REIorAne	0y-2	114908	120y16	10307y	122940	6U29	ql s
REromAum	y2-2	18622	193y6	18736	1879y	1U20	ql s
Robal&	y9-2	4y7	427	497	463	7U60	ql s
RoI I er	60-2	0yyy1	04790	06239	0yy18	2U33	ql s
t hsI rosAum	1y6-1	6y3	717	6y3	672	yU70	ql s
t hsI rosAum	1y6-2	273	023	003	037	13U48	ql s
. rbAum	164-1	492	47y	y42	y30	6U93	ql s
. rbAum	164-2	217	2y3	200	200	7U14	ql s
GaOolAnAum	163-1	692	y92	780	689	10U92	ql s
GaOolAnAum	163-2	400	420	423	426	1U60	ql s
HolmAum	16y-1	8163y00	8284779	8101177	8192160	1U33	ql s
HolmAum	16y-2	07y2327	07y2830	0727626	07441y2	3U08	ql s
DnOAum	11y-1	646707y	6077244	6194846	6046488	2U19	ql s
DnOAum	11y-2	89708y	914148	911234	937y79	3U99	ql s
Don	y4-2	1y764	16226	1y91y	1y968	1U47	ql s
Don	y6-2	264y12	26478y	276410	268y73	2Uy0	ql s
Don	y7-2	6679	6493	7310	6728	0U90	ql s
KrhI &on	80-1	291	283	261	277	yU46	ql s
LeaO	236-1	12349y	121481	119493	123489	3U80	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-31	Dns&umne&Name :	P8
RIAen&pamI le D :	c46c2	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:31:23	t a&aFAe Name :	308c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
LeaO	237-1	130646	130990	13666y	134768	1Uy8	ql s
LeaO	238-1	478200	478834	47772y	4782y4	3U11	ql s
LA&EAum	6-1	2y72893	2y44408	2y38714	2y42314	1U27	ql s
5 agnesAum	24-2	13334	13779	12y98	11127	11U97	ql s
5 anganese	yy-2	27643	27917	27797	2778y	3Uy3	ql s
5 olhbOenum	94-1	2yy3	2784	27y9	2698	4U7y	ql s
5 olhbOenum	9y-1	02y	238	167	200	0yU17	ql s
5 olhbOenum	96-1	792	800	7y3	792	yU26	ql s
5 olhbOenum	97-1	217	142	192	180	23U80	ql s
5 olhbOenum	98-1	yy8	y38	400	y33	12Uy8	ql s
NeoOhmAum	1y3-1	1190	1270	1200	1200	0U24	ql s
NeoOhmAum	1y3-2	423	430	000	086	11U90	ql s
NAqkel	63-2	17183	1776y	17801	17y92	2U34	ql s
PEosI Eorus	01-2	167	167	1y3	161	yU97	ql s
Po&assAum	09-2	20486	22440	24210	20081	0U83	ql s
CEoOAum	130-1	64029y1	6018412	62y2448	6004630	1U44	ql s
CEoOAum	130-2	297y202	2981428	294y21y	2967291	3U6y	ql s
pqanOAum	4y-1	4146838	4191068	4388129	4142132	1U2y	ql s
pqanOAum	4y-2	1042y6	107777	108467	106800	1U6y	ql s
pelenAum	82-1	4330	4249	4380	4111	0U36	ql s
pelenAum	77-2	127	127	137	123	9U62	ql s
pelenAum	78-2	427	404	472	444	yU4y	ql s
pAAqon	28-1	999662	9621y1	947703	969848	2U76	ql s
pAver	137-1	1y1791	1y2738	1y026y	1y2y88	3U49	ql s
pAver	139-1	147418	14y987	144802	146379	3U89	ql s
poOAum	20-2	44923	4y901	48900	46y94	4U48	ql s
p&ona&Aum	86-1	4131	43y1	0984	434y	1U4y	ql s
p&ona&Aum	88-1	01486	29924	29866	0342y	0U32	ql s
pulfur	04-1	063803	048862	0y1809	0y0844	1U76	ql s
i erbAum	1y9-1	8470190	829y0y3	8424y26	8097689	1U39	ql s
i erbAum	1y9-2	0694y49	0697134	06y24y3	0681068	3U68	ql s
i EallAum	230-1	717	692	717	738	2U34	ql s
i EallAum	23y-1	162y	1884	19y3	1823	9U40	ql s
i A	118-1	11y3	1442	1000	1038	11U27	ql s
i A&anAum	47-1	2442	202y	2042	2073	2U66	ql s
MranAum	208-1	1142	1338	77y	97y	19U34	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-31	Dns&umne&Name :	P8
RIAn&pamI le D :	c46c2	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 16:31:23	t a&aFAe Name :	308c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
VanaOAum	y1-2	07218	08167	07797	07728	1U27	ql s
Y&erbAum	172-1	142	167	180	164	12U83	ql s
Y&erbAum	172-2	78	122	111	134	22U03	ql s
Y&erbAum	176-1	1017	1392	1233	1230	9U06	ql s
Y&erbAum	176-2	926y	13249	9998	9807	yU23	ql s
Y&&Aum	89-1	11643211	11648602	11638929	11602y91	3U18	ql s
Y&&Aum	89-2	1184139	1233326	123423y	1196110	3U89	ql s
ZAnq	66-2	613	703	740	694	13Uy7	ql s
ZAqonAum	93-1	7619	7819	7494	7644	2U1y	ql s
ZAqonAum	91-1	1y7y	1738	1017	1y00	12U99	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-30	Dns&umne&Name :	P8
5 lAen&pamI le D :	c46L0	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:34:20	t a&aUAe Name :	30Cc. FUMD

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
c lumAnAum	27-2	481642	48478C	478y64	48166y	3M6y	ql s
c n&Amonh	121-1	20yC	20yC	2484	2433	0M31	ql s
c rsenAq	7y-2	yy4	yyy	yy1	yy0	3M08	ql s
BarAum	10y-1	706y1	70080	70631	70y4y	3M1C	ql s
BarAum	107-1	127811	12y408	126731	1266y3	3M04	ql s
BerhllAum	C-1	8y6	804	80C	840	1M43	ql s
BAsmu&E	23C-1	yy2080y	y6364y3	y673478	y6332y4	1M01	ql s
BAsmu&E	23C-2	2866001	2C1y748	2868874	28806y1	3M06	ql s
BromAne	81-1	44yC	y026	y068	y3y1	13M16	ql s
5 aOmAum	138-1	y8	71	46	y8	21M40	ql s
5 aOmAum	136-1	0417	0yyC	0184	0087	yM1C	ql s
5 aOmAum	111-1	280y	2C80	2y08	278y	8M10	ql s
5 alqAum	40-1	0C214	0C148	0C12C	0C164	3M11	ql s
5 alqAum	44-1	6831y3	67C008	683811	683133	3M11	ql s
5 arbon	12-1	2C32416	2C4682C	2C3y4C1	2C18246	3M8y	ql s
5 arbon	12-2	06212	0y0C0	0y40y	0y683	1M2C	ql s
5 ElorAne	0y-1	146311yC	18140147	23660C68	178327y8	17M11	ql s
5 ElorAne	0y-2	16y602	171yy8	17y74C	173C83	2M07	ql s
5 EromAum	y2-2	y0CC1	y4216	y4368	y43C2	3M21	ql s
5 obal&	yC-2	2CC6y	2CCC2	0318y	03347	3M43	ql s
5 ol I er	60-2	8C131	8773y	8801C	8807y	3M7C	ql s
t hsI rosAum	1y6-1	10766	10074	14642	10C27	4M66	ql s
t hsI rosAum	1y6-2	6y22	601y	6y7y	6471	2M12	ql s
FrbAum	164-1	11C47	12414	12801	120C8	0M7	ql s
FrbAum	164-2	y268	y448	y088	y068	1M71	ql s
GaOolAnAum	163-1	102y7	12837	1006y	10140	2M2y	ql s
GaOolAnAum	163-2	6C2y	6638	6838	6781	2M06	ql s
HolmAum	16y-1	80C026C	8228331	82C48y0	803y074	1M33	ql s
HolmAum	16y-2	08y13y0	0761007	0830078	083y2y6	1M18	ql s
DnOAum	11y-1	6071647	607C868	61y0742	60317y0	2M34	ql s
DnOAum	11y-2	C306C8	C10yy8	C3Cy01	C38C2C	3M1y	ql s
Don	y4-2	1614828	1y71C7y	1y8C83C	1yC2234	1M0y	ql s
Don	y6-2	28782721	28260781	288001y8	28626yy0	1M13	ql s
Don	y7-2	7344y2	6C3Cy6	680183	6C2860	1M1y	ql s
Krhl &on	80-1	28C	261	276	27y	yM33	ql s
LeaO	236-1	2C26C1	2C287C	2C7624	2C40C8	3M0y	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-30	Dns&umne&Name :	P8
5 IAen&pamI le D :	c46L0	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 16:34:20	t a&aUAe Name :	30Cc. FUM

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
LeaO	237-1	24y326	247411	248y13	246C82	3M72	ql s
LeaO	238-1	11y36C6	1167113	11y437y	11y72C4	3M7y	ql s
LA&EAum	6-1	2y6370y	248y4y8	2yy706y	2y04y1C	1M68	ql s
9 agnesAum	24-2	y82068	y8720y	y78836	y82830	3M70	ql s
9 anganese	yy-2	2C4660	2Cy023	2C3862	2C061y	3M62	ql s
9 olhbOenum	C4-1	6844	6844	7327	6C3y	1My0	ql s
9 olhbOenum	Cy-1	16C2	1C04	1CyC	1861	7MC1	ql s
9 olhbOenum	C6-1	01C2	2C67	0367	037y	0M67	ql s
9 olhbOenum	C7-1	12C2	1280	13C2	1222	CM26	ql s
9 olhbOenum	C8-1	2633	2Cy3	2804	27Cy	6M08	ql s
NeoChmAum	1y3-1	21C6y	21718	21708	21837	3M60	ql s
NeoChmAum	1y3-2	711y	726C	7162	7182	1M3C	ql s
NAqkel	63-2	1y388	14861	14467	14836	2M12	ql s
PEosI Eorus	01-2	1817	1842	182y	1828	3M73	ql s
Po&assAum	0C-2	137371	138222	13y723	137334	1M17	ql s
. EoOAum	130-1	61C0634	616CC67	6022324	6228y02	1M01	ql s
. EoOAum	130-2	0334427	2C46142	2C21630	2Cy70C1	1M44	ql s
pqanOAum	4y-1	42C2867	42y8101	42401C8	4264702	3M63	ql s
pqanOAum	4y-2	10C22y	143247	108336	10C1yC	3M81	ql s
pelenAum	82-1	1y	63	04	06	62M0y	ql s
pelenAum	77-2	07	27	07	00	17M02	ql s
pelenAum	78-2	y4	08	2C	43	01M43	ql s
pAAqon	28-1	CC43211	13344834	C87766C	CCy4228	3M8y	ql s
pAver	137-1	1C7y	2304	2242	2384	6M70	ql s
pAver	13C-1	1C17	1C84	223C	2306	7My1	ql s
poOAum	20-2	81413	803y2	80702	82701	1M44	ql s
p&ona&um	86-1	26840	26818	26280	26648	1M1C	ql s
p&ona&um	88-1	224748	226C30	22y088	22y683	3M4C	ql s
pulfur	04-1	0y7186	0418C2	041387	046722	2M62	ql s
i erbAum	1yC-1	8022C6y	8437281	8y24y38	84182y1	1M23	ql s
i erbAum	1yC-2	06CC787	078002C	0667468	0716861	1M61	ql s
i EallAum	230-1	1033	1400	1y2y	1423	7MC7	ql s
i EallAum	23y-1	023C	0467	023C	02Cy	4My0	ql s
i A	118-1	0CCy1	0C2y7	0C738	0C60C	3M8C	ql s
i A&anAum	47-1	47y318	483120	482C60	47C068	3M84	ql s
RranAum	208-1	2487y	2y342	2yy40	2y1y0	1M08	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-30	Dns&umne&Name :	P8
5 lAn&pamI le D :	c46L0	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 16:34:20	t a&aUAe Name :	30Cc. FUM

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
VanaOAum	y1-2	0877C	0C488	086C6	08C88	1M12	ql s
Y&erbAum	172-1	0826	0626	0C67	0836	4M1	ql s
Y&erbAum	172-2	1C8C	1C61	1C67	1C72	3M7y	ql s
Y&erbAum	176-1	0042	0204	0076	0017	2M20	ql s
Y&erbAum	176-2	11022	117y3	11800	1160y	2M06	ql s
Y&&Aum	8C-1	116C8107	11836671	11C4C448	11818386	1M37	ql s
Y&&Aum	8C-2	1224240	1214308	122033C	1223403	3M46	ql s
ZAnq	66-2	2C244	2C8y1	2C0C7	2C4C7	1M37	ql s
ZAqonAum	C3-1	17086	170y0	1782C	17y20	1M1	ql s
ZAqonAum	C1-1	0726	0817	4376	0870	4M6C	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-34	Dns&umne&Name :	P8
RIAen&pamI le D :	c46L8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO:	2320-37-14 16:37:20	t a&aFAe Name :	343c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
clumAnAum	27-2	1490833	1472072	1y16241	1494108	1L47	ql s
cn&Amonh	121-1	8y8	717	892	822	11L03	ql s
crsenAq	7y-2	y02	479	470	49y	6Ly6	ql s
BarAum	10y-1	162227	16y168	166668	164688	1L07	ql s
BarAum	107-1	282y77	283779	284yy4	282607	3L67	ql s
BerhlIAum	9-1	2072	2436	2411	2097	3L88	ql s
BAsmu&E	239-1	y696094	y613283	yy24369	y613248	1Ly4	ql s
BAsmu&E	239-2	2878404	2934470	228y141	2689049	10L30	ql s
BromAne	81-1	4yy9	4640	4467	4yy6	1L92	ql s
RaOmAum	138-1	133	7y	12y	133	2yL33	ql s
RaOmAum	136-1	0942	0y31	0y04	06y9	6L72	ql s
RaOmAum	111-1	2920	2681	261y	2743	yL91	ql s
RalqAum	40-1	y4384	yy3y9	yy120	y47yy	1L36	ql s
RalqAum	44-1	924911	941y16	907132	904y39	3L92	ql s
Rarbon	12-1	27y0633	2794792	2789y29	2779037	3L81	ql s
Rarbon	12-2	00937	02888	00110	00032	1L61	ql s
REIorAne	0y-1	17832y66	23976292	22792702	23y20860	12L01	ql s
REIorAne	0y-2	178633	180174	1873yy	182940	2L01	ql s
REromAum	y2-2	132964	133282	134001	132y2y	2L31	ql s
Robal&	y9-2	68328	67794	6814y	67989	3L26	ql s
RoI I er	60-2	131022	132397	130301	1321y3	3L84	ql s
t hsI rosAum	1y6-1	00167	00292	027y7	00372	3L8y	ql s
t hsI rosAum	1y6-2	1y1y2	1y12y	1y192	1y1y7	3L22	ql s
. rbAum	164-1	27721	27130	2917y	28333	0L83	ql s
. rbAum	164-2	118yy	12366	12y90	12171	0L12	ql s
GaOolAnAum	163-1	03168	01722	29y17	03469	0L72	ql s
GaOolAnAum	163-2	1y299	1y266	16383	1yy48	2L96	ql s
HolmAum	16y-1	8612747	8y92488	82336y2	8468629	2L74	ql s
HolmAum	16y-2	08400y1	0829977	0307748	0y730y9	12L92	ql s
DnOAum	11y-1	64292y2	6661063	6210109	6404y84	0L48	ql s
DnOAum	11y-2	917099	932934	728y31	849632	12L07	ql s
Don	y4-2	077211y	0728004	0789101	0760190	3L80	ql s
Don	y6-2	6862y201	69418393	67y74474	68y0926y	1L0y	ql s
Don	y7-2	177yy16	174y462	1760232	1761094	3L86	ql s
KrhI &on	80-1	019	029	029	02y	1L77	ql s
LeaO	236-1	79822	831y2	81071	83448	1L31	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-34	Dns&umne&Name :	P8
RIAen&pamI le D :	c46L8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:37:20	t a&aFAe Name :	343c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
LeaO	237-1	60768	64y13	6y627	6460y	1L4y	ql s
LeaO	238-1	03y618	036268	011376	0376y4	3L97	ql s
LA&EAum	6-1	2631978	2608767	2y09046	2y90064	1L94	ql s
5 agnesAum	24-2	1631817	1661101	16076y2	1600y00	1L80	ql s
5 anganese	yy-2	yy4922	yy2922	yyy642	yy449y	3L2y	ql s
5 olhbOenum	94-1	18883	19372	19681	19211	2L18	ql s
5 olhbOenum	9y-1	1217	1117	1380	1109	6L39	ql s
5 olhbOenum	96-1	0904	42y9	4626	4270	8L13	ql s
5 olhbOenum	97-1	yy8	y7y	600	y89	6L69	ql s
5 olhbOenum	98-1	1739	1804	1738	17y3	4L12	ql s
NeoChmAum	1y3-1	y3031	y1y36	y3903	y3912	1L18	ql s
NeoChmAum	1y3-2	166y3	16777	17134	16844	1L09	ql s
NAqkel	63-2	06366	06319	07318	06068	1Lyy	ql s
PEosI Eorus	01-2	207y	2017	24y9	2084	2L99	ql s
Po&assAum	09-2	06403y	067404	072y16	06838y	1L10	ql s
CEoOAum	130-1	6648344	64y8338	616y402	6420828	0L78	ql s
CEoOAum	130-2	0302221	0326740	2094716	2817890	10L31	ql s
pqanOAum	4y-1	44796yy	4y04326	4282664	440211y	2L98	ql s
pqanOAum	4y-2	14306y	144304	114128	102842	12L28	ql s
pelenAum	82-1	4y	09	0	29	79L81	ql s
pelenAum	77-2	y7	87	y0	66	28L31	ql s
pelenAum	78-2	y4	70	4y	y7	24L94	ql s
pAAqon	28-1	14636802	14740983	147y8928	14730247	3Lyy7	ql s
pAver	137-1	yy3	y7y	77y	600	19L47	ql s
pAver	139-1	617	667	680	6y6	yL29	ql s
poOAum	20-2	79y92	7734y	79270	78607	1L76	ql s
p&onA&um	86-1	y298y	y0yy0	y1y79	y2736	1L90	ql s
p&onA&um	88-1	4y1803	4y2701	4y7177	4y0910	3L60	ql s
pulfur	04-1	019114	023794	012433	017406	1L43	ql s
i erbAum	1y9-1	8734128	8830621	8048397	861861y	2L78	ql s
i erbAum	1y9-2	0774916	072168y	2997874	04981y8	12L41	ql s
i EallAum	230-1	2739	2739	2y67	2661	0L37	ql s
i EallAum	23y-1	670y	6268	6y40	6y16	0L63	ql s
i An	118-1	4804	4884	4868	4862	3Lyy2	ql s
i A&anAum	47-1	114039y	1210661	12339y8	118y93y	0L17	ql s
MranAum	208-1	y6762	y7171	y6477	y6830	3L61	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-34	Dns&umne&Name :	P8
RIAn&pamI le D :	c46L8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 16:37:20	t a&aFAe Name :	343c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
VanaOAum	y1-2	99272	98718	133893	99627	1U10	ql s
Y&erbAum	172-1	91y0	8y23	864y	8770	0U80	ql s
Y&erbAum	172-2	4436	4429	4712	4y16	0U77	ql s
Y&erbAum	176-1	6669	698y	6y77	6744	0U18	ql s
Y&erbAum	176-2	127y1	10131	13927	12263	9Uy2	ql s
Y&&Aum	89-1	12y09221	12078374	12308637	12018604	2U37	ql s
Y&&Aum	89-2	12y09y3	1246296	1314243	117149y	11U60	ql s
ZAnq	66-2	27y17	27623	27677	2763y	3U29	ql s
ZAqonAum	93-1	49y36	y34y3	y134y	y3004	1Uy4	ql s
ZAqonAum	91-1	11103	13946	1163y	11227	0U30	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0463-37	tOwTpmb Or TusbR:J	8N
5PrCTI sb DPP:t&:J	q46Ly	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J13J22	&sTsUdP:usb r:J	341q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb cOcmb	2 -2	1063 y6	1016y12	1021Ny2	1000233	1MN3	dDw
qCTb nCh	121-1	1227	143N	143N	104	MN6	dDw
qpwr Ccd	7-2	607	6y4	6 3	666	4M47	dDw
Bspcmb	107-1	12 20	12NN44	126N33	12 62	3MN4	dDw
Bspcmb	10 -1	224323	227142	226212	227127	3M4y	dDw
Br phPmb	y-1	1yN1	1Ny3	1yy3	1y74	2MN0	dDw
Bcwb mTE	23y-1	77N3714	74 0 61	7612626	7777604	1M01	dDw
Bcwb mTE	23y-2	2N76N11	2N73y1	2 NNN60	2N021y	1M00	dDw
Bpmb cOr	N1-1	4271	46y0	46N4	4740	7M76	dDw
5sob cmb	13N-1	y2	N0	134	y0	11M2	dDw
5sob cmb	136-1	0426	041	0442	042N	3M0	dDw
5sob cmb	111-1	2610	276	26N	2622	2M03	dDw
5sPlcmb	40-1	71y33	71140	7106	714 3	3M6	dDw
5sPlcmb	44-1	N N361	N 124	N 1yy3	N 0 66	3M40	dDw
5spenC	12-1	2N7 17	2N1N72N	2N27 07	2N00N36	3M2	dDw
5spenC	12-2	00134	04143	007y	00614	1M74	dDw
5EPnpcOr	07-1	2102 017	2473N7y6	2 3477 y	242y0N03	11My	dDw
5EPnpcOr	07-2	213166	216221	2107y1	210026	1M42	dDw
5Epmb cmb	72-2	13yNNN	13yyNy	13 632	13y163	1M24	dDw
5nesPT	7y-2	6 3 1	6N63N	6 4 7	6 1N	1MN	dDw
5nDDr p	60-2	11 1N2	11774y	1163y	1162 6	3M1	dDw
&hwDpnwcmb	176-1	2y 6	2 y6	03231	2y27N	4M0y	dDw
&hwDpnwcmb	176-2	12yy6	1070	1041	1001	2M10	dDw
Fpecmb	164-1	27 42	26y06	27 6	26171	2M03	dDw
Fpecmb	164-2	113N7	1104N	1143N	112N3	1M70	dDw
GsonPCcmb	163-1	2 746	2N377	2 2N	2 62y	1M41	dDw
GsonPCcmb	163-2	1447N	142 N	14274	14003	3MN	dDw
HnPb cmb	167-1	N2y2143	N04 044	N14113	N2631y	1M2y	dDw
HnPb cmb	167-2	0 07443	0 yy 21	06N4 16	0 0yy7y	1M74	dDw
tCocmb	117-1	64231y4	601 462	6062036	6066674	3MN1	dDw
tCocmb	117-2	NNNy31	Ny3y10	NN01y3	NN 66N	3M47	dDw
tpnC	74-2	0642610	06y7013	07y N76	0647263	1M04	dDw
tpnC	76-2	6606y31	673N3043	6043307N	64y4yy37	2M2y	dDw
tpnC	7 -2	164 37y	16y6400	1617221	1672y37	2M4N	dDw
KphDTnC	N0-1	013	2y6	031	032	2M03	dDw
Lr so	236-1	1742y2	14y6y4	17433	172667	1M0y	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0463-37	tOwTpmb Or TusbR:J	8N
5PrCTI sb DPP:t&:J	q46Ly	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J13J22	&sTsUdP:usb r:J	341q. FUMd

8spsb r Tp	9 sww	58I 1	58I 2	58I 0	58I 9 rsC	58I . I &	RCdTw
Lr so	23 -1	1261 3	124 70	126674	127N7y	3My	dDw
Lr so	23N-1	7y23y0	7NN30	7y3612	7y324	3M07	dDw
LdEomb	6-1	26 6 24	2677744	26160	264y74N	1M16	dDw
9 sgOr womb	24-2	1 27y7N	1 3 6N	16 063	1 32444	1M76	dDw
9 sOgsOr wr	77-2	631403	7y 167	7NN24y	7y7617	1M10	dDw
9 nPheor Omb	y4-1	1N 37	1y10y	1N42y	1N 7N	1My1	dDw
9 nPheor Omb	y7-1	11y2	13y2	1242	11 7	6M73	dDw
9 nPheor Omb	y6-1	4y71	463y	43N4	474N	yM03	dDw
9 nPheor Omb	y -1	6y2	42	1	1	0M4y	dDw
9 nPheor Omb	yN-1	22 7	1y42	163N	1y42	1 M1	dDw
u r nohb omb	173-1	462 0	44621	4410y	47311	2M4y	dDw
u r nohb omb	173-2	144y1	14264	1471N	14427	3My	dDw
u dkr P	63-2	04247	0437N	024N4	007y7	2MMN	dDw
8 EnwDEnpmw	01-2	227y	216	22N4	2206	2M7	dDw
8 nTswwomb	0y-2	2627y0	263 N	277N63	27y 40	1M04	dDw
. Enoomb	130-1	6070N7y	6276776	6046 0	601y362	3MM6	dDw
. Enoomb	130-2	2y04400	2yN7y61	2y34y 7	2y41 y3	1M0y	dDw
I dsCoomb	47-1	47262y0	44 N01	4020N 3	4442664	2M0N	dDw
I dsCoomb	47-2	10y 62	143466	10y0y0	10yN 4	3M0y	dDw
I r PPOomb	N2-1	21	7	74	44	47M17	dDw
I r PPOomb	-2	4	40	y0	61	47M4	dDw
I r PPOomb	N-2	46	77	76	72	13M70	dDw
I dPdnC	2N-1	13yyy676	13y37y4N	13yN421N	13y602 4	3M46	dDw
I dPr p	13 -1	673	y2	N1	70	11My4	dDw
I dPr p	13y-1	733	642	N6	66y	2 M62	dDw
I noomb	20-2	06N6	0y10	1 07	0111	1M64	dDw
I TpnCTomb	N6-1	44362	4011	40472	40744	1M13	dDw
I TpnCTomb	NN-1	06y77y	066N6N	064232	066N 6	3M0	dDw
I mPmp	04-1	013317	0307y1	030y7N	037N74	1M1N	dDw
Ar peomb	17y-1	N7N1 NN	N071 63	N0y1671	N441 00	1M46	dDw
Ar peomb	17y-2	060 y36	06643 4	0 2226y	06 4 73	1M1N	dDw
AEsPPomb	230-1	21N4	23y2	227y	21 N	0MM0	dDw
AEsPPomb	237-1	7271	4 31	7131	731N	7M3	dDw
AdC	11N-1	Ny47	Ny47	N0y4	N 61	0M60	dDw
AdSOomb	4 -1	N67 2	N 03	N63024	N6 N6	1M73	dDw
RpsOomb	20N-1	41 70	447 y	4264	42yy0	0M06	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0463-37	tOwTpmb OrTusb r:J	8N
5RrCTI sb DPr:t&:J	q46Ly	&dPnTnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J13J22	&sTsUdPr:usb r:J	341q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	71-2	13 43y	13 7 4	13 430	13 462	3M3y	dDw
YTTr peomb	1 2-1	N6y	Ny4	672	N37	1M3	dDw
YTTr peomb	1 2-2	41 N	41N4	4343	4104	1MyN	dDw
YTTr peomb	1 6-1	6172	761N	7yN7	7y1N	4M61	dDw
YTTr peomb	1 6-2	1226	127N4	127y7	124N2	1M4y	dDw
YTTpomb	Ny-1	1237 623	11y2y6y7	11y71142	11y y4N6	3M7	dDw
YTTpomb	Ny-2	1227334	12037N3	1217N46	1220N13	3M61	dDw
ZdCd	66-2	444N3	4420y	404 0	44364	1M1y	dDw
ZqpdnComb	y3-1	73 y0	4N6N6	4y274	4y7 N	2M23	dDw
ZqpdnComb	y1-1	113NN	1144	11422	1101y	1M	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab paml le D :	S0463-36	Dns&umne&Name :	P8
RlAen&paml le D :	c465 3	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:10:23	t a&aFAe Name :	342cC. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
clumAnAum	27-2	972938	96101y	948830	961339	1U2y	ql s
cn&Amonh	121-1	y2y	yy3	638	y61	7U62	ql s
crsenAq	7y-2	410	087	099	433	0U26	ql s
BarAum	10y-1	920y6	90y98	926y2	92869	3U73	ql s
BarAum	107-1	1621y8	162224	161y02	161971	3U24	ql s
BerhllAum	9-1	1814	168y	1733	1700	4U36	ql s
BAsmu&E	239-1	yy303y9	y6833yy	yy48790	yy77032	1U6y	ql s
BAsmu&E	239-2	27yy0y6	2882298	28y4103	2803y9y	2U06	ql s
BromAne	81-1	4276	4226	4067	4293	1U68	ql s
RaOmAum	138-1	y3	79	60	64	22U91	ql s
RaOmAum	136-1	0y26	0626	0004	049y	4U24	ql s
RaOmAum	111-1	2738	2774	2498	2663	yU41	ql s
RalqAum	40-1	4yy21	4y770	4yy73	4y621	3U29	ql s
RalqAum	44-1	780989	79y200	7896y8	789627	3U71	ql s
Rarbon	12-1	2838y96	28163yy	2814620	2810391	3U14	ql s
Rarbon	12-2	02428	02807	02934	02720	3U79	ql s
RElorAne	0y-1	19648106	2270y939	24237321	22197322	13U48	ql s
RElorAne	0y-2	186739	191601	194820	1913y4	2U14	ql s
REromAum	y2-2	67680	67y32	67291	67492	3U29	ql s
Robal&	y9-2	4y03y	40921	403y8	4439y	2Uy7	ql s
RoI I er	60-2	69713	69670	68682	690yy	3U84	ql s
t hsI rosAum	1y6-1	276y4	27228	26y32	27128	2U1y	ql s
t hsI rosAum	1y6-2	12499	12676	12066	12y14	1U24	ql s
. rbAum	164-1	20188	20396	20772	200y2	1Uy7	ql s
. rbAum	164-2	9977	13317	9884	99y9	3U69	ql s
GaOolAnAum	163-1	2y6y8	2y968	26268	2y96y	1U17	ql s
GaOolAnAum	163-2	12770	12983	12986	12910	3U94	ql s
HolmAum	16y-1	8490729	80y706y	8y23439	84y7167	1U30	ql s
HolmAum	16y-2	0609498	0830y60	0897288	0783116	0U4y	ql s
DnOAum	11y-1	6069420	6428190	6067722	6088446	3Uy4	ql s
DnOAum	11y-2	86y236	933y96	912626	892813	2U76	ql s
Don	y4-2	22866y6	2294y64	2263434	2283y41	3U78	ql s
Don	y6-2	41228y79	43640708	09997820	43620083	1Uy2	ql s
Don	y7-2	984079	962y02	971367	9726y9	1U10	ql s
Krhl &on	80-1	009	02y	289	017	8U10	ql s
LeaO	236-1	67880	677y4	6yy1y	673y1	1U99	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab paml le D :	S0463-36	Dns&umne&Name :	P8
RIAen&paml le D :	c465 3	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:10:23	t a&aFAe Name :	342c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
LeaO	237-1	y44y0	y0672	y02y4	y0790	1U10	ql s
LeaO	238-1	2y6129	2y7383	2y1407	2y4882	1U19	ql s
LA&EAum	6-1	2y43y67	2614011	2y401yy	2y66311	1U60	ql s
5 agnesAum	24-2	1339109	9862yy	1336399	1333498	1U24	ql s
5 anganese	yy-2	263082	2y8yy2	2y7660	2y8866	3Uy4	ql s
5 olhbOenum	94-1	12689	11410	1193y	12330	yU06	ql s
5 olhbOenum	9y-1	833	942	942	89y	9U14	ql s
5 olhbOenum	96-1	03y9	012y	2967	03y3	2U61	ql s
5 olhbOenum	97-1	y80	467	y00	y28	11U39	ql s
5 olhbOenum	98-1	1y38	14y3	1417	14y8	0U18	ql s
NeoOhmAum	1y3-1	42621	44227	42226	4032y	2U46	ql s
NeoOhmAum	1y3-2	14108	10701	10y64	10811	2U14	ql s
NAqkel	63-2	20964	20897	20y03	20797	3U98	ql s
PEosI Eorus	01-2	1884	177y	1804	1801	2U96	ql s
Po&assAum	09-2	194779	191889	194106	190631	3U78	ql s
CEoOAum	130-1	603y866	6427613	6082232	6071890	3U97	ql s
CEoOAum	130-2	28664y2	0331y74	0304074	2967466	0U33	ql s
pqanOAum	4y-1	4418831	4444y12	40381y1	4093488	1U6y	ql s
pqanOAum	4y-2	100494	143396	141406	108042	0U37	ql s
pelenAum	82-1	-8	-13	46	13	001Uy1	ql s
pelenAum	77-2	43	47	y3	46	11U18	ql s
pelenAum	78-2	49	y2	42	48	13U78	ql s
pAAqon	28-1	1496824y	1y317y76	1469y448	148907y6	1U16	ql s
pAver	137-1	47y	y17	y7y	y22	9U62	ql s
pAver	139-1	yy3	442	480	492	11U12	ql s
poOAum	20-2	77229	766y2	76343	76643	3U78	ql s
p&on&Aum	86-1	029y6	00904	00y66	0048y	1U47	ql s
p&on&Aum	88-1	282y23	28y208	28yyy1	284406	3Uy9	ql s
pulfur	04-1	292207	2919y6	287y28	293y74	3U91	ql s
i erbAum	1y9-1	84y4698	869633y	8299813	8480y34	2U0y	ql s
i erbAum	1y9-2	0yy0063	0731709	0713240	06yy114	2U41	ql s
i EallAum	230-1	1784	17y3	18y9	1797	0U39	ql s
i EallAum	23y-1	4290	4039	42y9	4287	3Uy9	ql s
i An	118-1	4176	4184	4076	424y	2U67	ql s
i A&anAum	47-1	722099	722778	73816y	717781	1U16	ql s
MranAum	208-1	y0681	y4y13	yy146	y4446	1U0y	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-36	Dns&umne&Name :	P8
RIAn&pamI le D :	c465 3	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 16:10:23	t a&aFAe Name :	342c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
VanaOAum	y1-2	66798	66906	677y0	67162	3U77	ql s
Y&erbAum	172-1	690y	7206	7363	7377	2U10	ql s
Y&erbAum	172-2	0920	0789	0612	077y	4U14	ql s
Y&erbAum	176-1	y618	y08y	y213	y434	0U79	ql s
Y&erbAum	176-2	11789	12067	12931	120y2	4Uy3	ql s
Y&&Aum	89-1	11862772	12238436	121y703y	12376161	1Uy4	ql s
Y&&Aum	89-2	1182139	1241463	1240yy1	1222070	2U8y	ql s
ZAnq	66-2	2340y	197y7	23121	23134	1U69	ql s
ZAqonAum	93-1	01662	0273y	01194	018y4	2U40	ql s
ZAqonAum	91-1	71y2	7244	7113	7169	3U9y	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-37	Dns&umne&Name :	P8
RIAen&pamI le D :	c465 1	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO:	2320-37-14 16:16:22	t a&aFAe Name :	340cC. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
clumAnAum	27-2	201907	22886y	229y70	20312y	3U73	ql s
cn&Amonh	121-1	y931	y78y	y790	y826	1U12	ql s
crsenAq	7y-2	1389	1382	1141	1134	2U92	ql s
BarAum	10y-1	121114	122y28	121712	12178y	3Uy8	ql s
BarAum	107-1	212079	212039	213481	211720	3Uy1	ql s
BerhlIAum	9-1	621	60y	63y	623	2U42	ql s
BAsmu&E	239-1	y639987	y643711	y716486	y6yy728	3U97	ql s
BAsmu&E	239-2	289yy34	0390446	2989636	29928y2	0U01	ql s
BromAne	81-1	4918	y204	y8y1	y00y	8U93	ql s
RaOmAum	138-1	1y8	146	1y4	1y0	4U17	ql s
RaOmAum	136-1	06y1	0604	0439	0y64	0U79	ql s
RaOmAum	111-1	4306	4334	0862	0967	2U04	ql s
RalqAum	40-1	y1631	y1321	y3093	y1334	1U19	ql s
RalqAum	44-1	864y10	87y620	873946	873063	3U64	ql s
Rarbon	12-1	609907y	678y39y	6630339	6y9y826	2U90	ql s
Rarbon	12-2	79939	83847	83412	83093	3Uy8	ql s
REIorAne	0y-1	23002711	24132302	2638014y	20y3y960	12U40	ql s
REIorAne	0y-2	233676	232431	238y06	230871	2U30	ql s
REromAum	y2-2	y8412	y8298	y7947	y8219	3U42	ql s
Robal&	y9-2	03189	29474	29631	297y4	1U28	ql s
RoI I er	60-2	146712	14y831	149461	14702y	1U29	ql s
t hsI rosAum	1y6-1	8y86	8219	8061	8089	2U21	ql s
t hsI rosAum	1y6-2	0724	0911	0781	083y	2Uy2	ql s
. rbAum	164-1	7219	7494	7232	703y	2U24	ql s
. rbAum	164-2	0413	0147	0177	024y	4U44	ql s
GaOolAnAum	163-1	7044	8178	7644	7722	yU47	ql s
GaOolAnAum	163-2	4147	41y7	4304	4110	1U67	ql s
HolmAum	16y-1	8260688	804107y	8y26649	8077208	1U61	ql s
HolmAum	16y-2	0763228	413y112	0893619	09186y0	4U44	ql s
DnOAum	11y-1	6441174	6092931	6090966	6439047	3U40	ql s
DnOAum	11y-2	892010	97y1y9	92y733	9013y7	4U48	ql s
Don	y4-2	23628y2	237y7y6	213287y	2383494	3U98	ql s
Don	y6-2	07200073	07076973	07208470	07282908	3U22	ql s
Don	y7-2	899882	934394	898yy0	933840	3U02	ql s
KrhI &on	80-1	036	273	292	293	6U02	ql s
LeaO	236-1	43y4y2	432014	43689y	434887	3Uy8	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-37	Dns&umne&Name :	P8
RIAen&pamI le D :	c465 1	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:16:22	t a&aFAe Name :	340c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
LeaO	237-1	027088	00479y	006y44	002939	1U46	ql s
LeaO	238-1	1yy8260	1y62331	1y67973	1y6274y	3U01	ql s
LA&EAum	6-1	2y28172	2y0184y	2y8372y	2y46914	1U1y	ql s
5 agnesAum	24-2	276331	270y07	270463	274000	3Uy0	ql s
5 anganese	yy-2	11413y7	1148736	1149022	1146062	3U43	ql s
5 olhbOenum	94-1	y826	6y90	6063	6263	6U28	ql s
5 olhbOenum	9y-1	6944	7163	6769	69y7	2U82	ql s
5 olhbOenum	96-1	8294	8119	8319	8144	1U71	ql s
5 olhbOenum	97-1	4640	4468	4640	4y84	2U23	ql s
5 olhbOenum	98-1	13yy4	11y10	11110	11363	4U06	ql s
NeoOhmAum	1y3-1	12670	123y9	12479	12434	2Uy0	ql s
NeoOhmAum	1y3-2	4361	0887	4164	4307	0U46	ql s
NAqkel	63-2	21016	23161	238yy	23778	2U83	ql s
PEosI Eorus	01-2	1067	1417	1480	1422	4U12	ql s
Po&assAum	09-2	y7372	y4y28	yy181	yyy94	2U08	ql s
CEoOAum	130-1	6096302	607874y	663222y	64y9331	1U90	ql s
CEoOAum	130-2	2977067	0269892	0123808	0122699	4U68	ql s
pqanOAum	4y-1	4018043	4027y7y	4078y49	4041488	3U7y	ql s
pqanOAum	4y-2	108346	147761	140361	1429y6	0U43	ql s
pelenAum	82-1	27	71	6	0y	94U73	ql s
pelenAum	77-2	13	20	13	14	y0U28	ql s
pelenAum	78-2	43	20	28	03	28U83	ql s
pAAqon	28-1	6y33231	661y1y3	6447016	6y23889	1U02	ql s
pAver	137-1	1038	1042	1233	1280	yU77	ql s
pAver	139-1	1192	12y8	102y	12y8	yU03	ql s
poOAum	20-2	88821	88382	88316	88036	3Uy1	ql s
p&ona&um	86-1	04240	0y710	06974	0y640	0U84	ql s
p&ona&um	88-1	298y09	037384	298720	031449	1U62	ql s
pulfur	04-1	021yy3	022y82	020838	022647	3U0y	ql s
i erbAum	1y9-1	8y3y269	8766120	8709300	8673142	1U6y	ql s
i erbAum	1y9-2	062323y	0919237	0713706	07y3349	4U39	ql s
i EallAum	230-1	92y	87y	92y	938	0U18	ql s
i EallAum	23y-1	2284	2492	2192	2022	6U62	ql s
i A	118-1	2y124	24770	24698	2486y	3U91	ql s
i A&anAum	47-1	23036y	19973y	23y3yy	232638	1U00	ql s
MranAum	208-1	1y290	1y60y	1y113	1y046	1U74	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-37	Dns&umne&Name :	P8
RIAn&pamI le D :	c465 1	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 16:16:22	t a&aFAe Name :	340c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
VanaOAum	y1-2	2y843	2y3y9	2y426	2y442	1Uy4	ql s
Y&erbAum	172-1	2184	262y	2704	2y14	11Uy9	ql s
Y&erbAum	172-2	129y	1380	12y3	1239	9U23	ql s
Y&erbAum	176-1	2639	27y9	2917	2761	yUy8	ql s
Y&erbAum	176-2	13721	11472	1133y	11366	0U40	ql s
Y&&Aum	89-1	1218281y	12y3448y	1191y136	12233832	2U42	ql s
Y&&Aum	89-2	1219766	10y8670	1206182	1271y43	yU97	ql s
ZAnq	66-2	49y16	498y1	y3388	49818	3Uy8	ql s
ZAqonAum	93-1	670y	6613	7263	6869	yU32	ql s
ZAqonAum	91-1	12y8	162y	1480	14y6	12U73	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0463-37	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	q469 2	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2320-3 -14:16J1aJ22	&wTwUd8 :u wb r :J	344q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	76140a	7yy310	762112	7yay21	3M46	dDl
qCTb nCh	121-1	131	737	aa2	a0a	12M12	dDl
qpl r Ccl	y-2	a04	761	7a0	7a6	4M37	dDl
Bwpcmb	10y-1	aa243	13364a	133774	1332y	3M7a	dDl
Bwpcmb	10 -1	1 14a7	1 42 0	1 6210	1 0aay	1M06	dDl
Br ph8mb	a-1	1y01	147y	1y1a	1y12	1My7	dDl
Bdl b mTE	23a-1	yaa 042	y0 7276	yyy7y46	y644 2y	yM64	dDl
Bdl b mTE	23a-2	2a11647	2a6 76y	2a220y1	2a00ayy	1M32	dDl
Bpmb cCr	71-1	4617	4026	4 31	4y47	4M00	dDl
5 wob cmb	137-1	70	110	2y	4	63My2	dDl
5 wob cmb	136-1	073a	03y3	0404	0401	11M3y	dDl
5 wob cmb	111-1	27 y	2044	26a3	2606	13M42	dDl
5 w8lcmb	40-1	yy77a	y66y2	y4737	yy 70	1M66	dDl
5 w8lcmb	44-1	ay06	a4a y6	ay40y1	ay2yay	3M46	dDl
5 wpenC	12-1	277110	27y3642	2771403	27 13 3	3M62	dDl
5 wpenC	12-2	0y317	041a1	00622	042	2M3y	dDl
5 E8hpCr	0y-1	23yyyy42	20 ay277	2y74 671	200aay34	11M43	dDl
5 E8hpCr	0y-2	1ay 32	233011	23413y	23330a	2M13	dDl
5 Epmb cmb	y2-2	6y002	60a32	60 47	6402	1M06	dDl
5 new8T	ya-2	4y3y7	4y042	4477	4y3a6	3My1	dDl
5 nDDr p	60-2	6773	6y17	6362	647	3My4	dDl
&hl Dpnl cmb	1y6-1	22yay	22406	22476	22y36	3M06	dDl
&hl Dpnl cmb	1y6-2	13014	aay4	1317	131y2	1M73	dDl
Fpecmb	164-1	1aa4a	1a20a	1aa3	1a6a7	2M32	dDl
Fpecmb	164-2	70a0	7y36	7270	70a4	1M00	dDl
Gwon8Ccmb	163-1	21y26	23 37	23437	23771	2M	dDl
Gwon8Ccmb	163-2	1131y	13604	13717	13722	1M6	dDl
Hn8b cmb	16y-1	a1232y4	7370244	70002a3	7y12260	6M06	dDl
Hn8b cmb	16y-2	070y2 a	074360y	0 ay26a	0720 27	3M3y	dDl
tCocmb	11y-1	67y0 71	63 ay43	64a0 a2	64 y 3y	yM47	dDl
tCocmb	11y-2	a222a3	a16167	a16y2y	a17027	3M	dDl
tpnC	y4-2	200a220	2431yya	20217y	20y4210	1M7	dDl
tpnC	y6-2	42 1a1a4	43200 31	41400 1a	4146223y	0M33	dDl
tpnC	y -2	131 12a	a7 a47	aa2a36	aaa027	1My6	dDl
KphDTnC	70-1	036	013	27a	032	0M6	dDl
Lr wo	236-1	12101a	122y71	12y4ya	12011a	1M2	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0463-37	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	q469 2	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2320-3 -14:16J1aJ22	&wTwUd8 :uwb r :J	344q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	23 -1	a 00	aay23	1313 6	aa440	1M67	dDl
Lr wo	237-1	4 3a76	4 07a4	4 3ya	4 0a a	3M64	dDl
LdEcmb	6-1	26707 1	2y0a 64	2637217	261361	2M6	dDl
9 wgCr l cmb	24-2	a 60y1	a6a274	ayy43a	a6 31y	1M13	dDl
9 wCgwCr l r	yy-2	0yy020	046 12	0y2 00	0y1y7a	1M26	dDl
9 n8heor Cmb	a4-1	1143y	13a03	120a	11y	6M4	dDl
9 n8heor Cmb	ay-1	1100	132y	126	1142	13M03	dDl
9 n8heor Cmb	a6-1	0442	0133	2774	0142	7M46	dDl
9 n8heor Cmb	a -1	37	6y7	642	66a	yM17	dDl
9 n8heor Cmb	a7-1	1 04	1600	1y42	1606	yM76	dDl
u r nohb cmb	1y3-1	0y1a0	0634a	07314	0641a	0M4	dDl
u r nohb cmb	1y3-2	1174a	1176a	117a2	117 3	3M17	dDl
u cdkr 8	63-2	22427	222y	22y27	22434	3M61	dDl
NEnl DEnpm	01-2	263a	22 y	24 y	24y0	6M74	dDl
NnTwl cmb	0a-2	1 3463	16aaay	1 1a00	1 3 a6	3Mya	dDl
. Enocmb	130-1	6 7136	6142aya	60202a3	6414 7y	yM13	dDl
. Enocmb	130-2	03 0 yy	03 y7yy	0346366	036y22y	3My4	dDl
l dwCocmb	4y-1	4621310	41y0036	40 6a0y	4070 y1	yM04	dDl
l dwCocmb	4y-2	10aa74	142331	10a0 a	1434yy	3M47	dDl
l r 8 Cmb	72-1	22	2y	26	2y	Ma	dDl
l r 8 Cmb	-2	60	63	y0	ya	7M6y	dDl
l r 8 Cmb	7-2	40	42	43	42	0M6	dDl
l 8dnC	27-1	12 71013	1273aa 3	127024y7	1273 a10	3M23	dDl
l 8vr p	13 -1	62y	700	2y	27	14M02	dDl
l 8vr p	13a-1	y y	yy3	y33	y42	M3y	dDl
l nocmb	20-2	6a44a	6 6a3	6713a	67416	1M04	dDl
l TpnCTcmb	76-1	0613y	0663	06101	06271	3M7	dDl
l TpnCTcmb	77-1	036y20	03ay73	034640	036a1y	3M71	dDl
l m8mp	04-1	274042	271376	2 yyy7	27302a	1My7	dDl
Ar pecmb	1ya-1	a17y127	71474	7y10032	761y60y	6M13	dDl
Ar pecmb	1ya-2	074y 0a	0 a 6a3	0 32134	0 71744	1M40	dDl
AEw8cmb	230-1	1y33	1600	161	1y70	4Mya	dDl
AEw8cmb	23y-1	0yy1	0a04	0 42	0 42	yM12	dDl
AdC	117-1	642	6y7y	671a	6613	2M47	dDl
AdTwCcmb	4 -1	603ay6	62y 70	6266a1	62 713	3M44	dDl
RpwCcmb	207-1	0ya17	062y0	0y302	0y 04	1M6	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDr pwThpJ	swl Pw8
Lwe:I wb D8 :t&:J	S0463-37	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	q469 2	&8mTmC:UwdThpJ	1
&wTr :i :Adb r :qdOmpr o:J	2320-3 -14:16J1aJ22	&wTwUd8 :u wb r :J	344q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwocmb	y1-2	643ya	604a3	607 7	6073a	3M46	dDl
YTTr pecmb	1 2-1	y104	y663	yaa0	yya6	M4	dDl
YTTr pecmb	1 2-2	2a 7	2a1	27 0	2a20	1M71	dDl
YTTr pecmb	1 6-1	4640	46a0	y317	4 74	4M26	dDl
YTTr pecmb	1 6-2	121 7	12227	12y4y	1201	1M62	dDl
YTTpcmb	7a-1	12a 470	11746 06	123 203	122a a63	4M7y	dDl
YTTpcmb	7a-2	12632y	12617 7	1240372	12yy3 2	3M70	dDl
ZdCd	66-2	01221	010a1	010ay	01006	3M02	dDl
ZqpdnCcmb	a3-1	02362	02312	03740	0160a	2M17	dDl
ZqpdnCcmb	a1-1	6y0y	332	67y2	6 a6	0My1	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0463-37	tOwTpmb Or TusB r:J	8N
9 PrCTI sb DPP:t&:J	q46y 0	&dPmTmC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J22J24	&sTsMdPP:usb r:J	34. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I 0	9 8 I y r s C	9 8 I F I &	5 CdTw
qPmb dCmb	2 -2	NN3. 71	NN1 2	N 0. .	N N646	3R3	dDw
qCTb nCh	121-1	600	72	72.	N0	1NR64	dDw
qpwr Cd	. -2	. . 6	. 07	. 6	. .	0R02	dDw
Bspmb	10. -1	1. 6471	1. 63	1. N472	1. 323	3RN2	dDw
Bspmb	10 -1	26N746	2 2 N6	2663 N	2672 3	1R2.	dDw
Br phPmb	7-1	167	1. 07	1614	161	4R71	dDw
Bcvb mTE	237-1	. 6N. 20	. 71 2	. 6. 7611	. 1206N	1R20	dDw
Bcvb mTE	237-2	27614. 7	27N0670	276133.	276N 17	3R44	dDw
Bpmb dCr	N1-1	4072	4. 70	4031	4427	0R0	dDw
9 sob mb	13N-1	NN	60	13N	N6	26R6.	dDw
9 sob mb	136-1	041	0. 6	0637	0. 04	2R73	dDw
9 sob mb	111-1	2. 64	2 37	26N4	26. 2	2R72	dDw
9 sPdmb	40-1	47077	. 121.	. 1221	. 3612	2R3N	dDw
9 sPdmb	44-1	N4N442	N62302	N. 4603	N. . 304	3RN3	dDw
9 spenC	12-1	2 N3323	2 7. 7 7	2 N044	2 N4 N1	3R0.	dDw
9 spenC	12-2	0207.	027 1	023. 2	024 0	1R40	dDw
9 EPmpdCr	0. -1	23602431	2464 26N	26. N727	207. 6022	12R6N	dDw
9 EPmpdCr	0. -2	23031	234 41	2134. .	2363 1	1RN7	dDw
9 Epmb mb	. 2-2	60122	6201.	60 21	603. 0	1R12	dDw
9 nesFT	. 7-2	4 114	46141	46. N0	46610	1R3.	dDw
9 nDDr p	60-2	6N. . .	6N0	6N107	6N0.	3R01	dDw
&hwDpnwmb	1. 6-1	2. 04	2. N. 7	2. 177	2. . 7	1R0	dDw
&hwDpnwmb	1. 6-2	11727	11. 12	11. 6.	1166N	1R74	dDw
Upemb	164-1	2170.	21N2	217N6	21716	3R0	dDw
Upemb	164-2	760	7. 23	7613	7. N7	3R64	dDw
GsonPCmb	163-1	207N1	2. 016	24 20	246 0	2R 1	dDw
GsonPCmb	163-2	120N7	12122	12430	1203.	1R2N	dDw
HnPb mb	16. -1	N2 3026	N. 66261	N41N2N.	N41N271	1R 6	dDw
HnPb mb	16. -2	0NN1 73	070 76	073. 337	073N17N	3R 2	dDw
tComb	11. -1	606140N	60 7233	607 4 4	60 70 1	3R2N	dDw
tComb	11. -2	727047	72624N	72227	72. 76.	3R0N	dDw
tpnC	. 4-2	227. N1	22NNN00	22N4. 11	22N7 3N	3R2.	dDw
tpnC	. 6-2	43 630N1	43 240N3	4121 N 7	43733NN3	3R6	dDw
tpnC	. -2	7 2 67	7 N.	7 6 64	7 . 0	3R2	dDw
KphDTnC	N0-1	023	2N4	273	27N	6R 3	dDw
Lr so	236-1	6. 720	6. 6. 4	6613	6. N7.	3R0.	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0463-37	tOwTpmb Or TusB r:J	8N
9 Pr CTI sb DPP:t&:J	q46y 0	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J22J24	&sTsMdPP:usb r:J	34. qF UMPb

8spsb r Tp	y sww	98I 1	98I 2	98I 0	98I y r sC	98I FI &	5 CdTw
Lr so	23 -1	. 43N.	. 241	. 0 4.	. 0416	1P6.	dDw
Lr so	23N-1	2. 4630	2. 0007	2. 3737	2. 27. 3	3R 4	dDw
LdEcmb	6-1	2. . 1N2.	2. N2N64	2. N6063	2. 06N0	3R 4	dDw
y sgOr wcmb	24-2	747. 7.	741321	74. 7. 2	74. . 20	3P46	dDw
y sOgsOr wr	. . -2	00377N	027776	000171	00107.	3P47	dDw
y nPheor Cmb	74-1	173N3	1 712	1 023	1N134	4P7.	dDw
y nPheor Cmb	7. -1	141	1. 2.	1. 6	1. 30	. P1.	dDw
y nPheor Cmb	76-1	4726	4640	4N 6	4N1.	0P14	dDw
y nPheor Cmb	7 -1	132.	7N0	772	1333	2P23	dDw
y nPheor Cmb	7N-1	2 33	2033	2072	2464	NR 1	dDw
u r nohb cmb	1. 3-1	41044	0731	07602	0777N	0P31	dDw
u r nohb cmb	1. 3-2	12776	122N2	12N26	12 32	2P74	dDw
u cdkr P	63-2	20613	20. 06	20277	204N2	3P67	dDw
8 EnwDEnpmw	01-2	23 .	22. 7	20. 7	2201	6P44	dDw
8 nTswwcmb	07-2	1N N. .	1N01. 2	1N073.	1N47 1	1P0	dDw
F Enocmb	130-1	601. . . 4	60N2N17	6436434	606N2. 7	3R 4	dDw
F Enocmb	130-2	0362026	01. . 436	03 . 003	037 6N	1P60	dDw
I dsCocmb	4. -1	400021	44604 0	4433676	4077127	1P4N	dDw
I dsCocmb	4. -2	142207	1402N0	144N72	1404 2	3P70	dDw
I r PCmb	N2-1	11	67	0.	0N	. P0N	dDw
I r PCmb	-2	. 3		4	. N	2NP46	dDw
I r PCmb	N-2	43	07	4	42	13P0N	dDw
I dcdnC	2N-1	13300301	133N 21.	131232N7	133N31 N	3P44	dDw
I dPr p	13 -1	63N	. 33	66	. 72	14P03	dDw
I dPr p	137-1	46	. 42	46	472	NPN1	dDw
I nocmb	20-2	1N4644	1N0. 63	1N4663	1N42NN	3P04	dDw
I TpnCTcmb	N6-1	0. 311	0. 2 7	0. . .	0. 04N	1P3	dDw
I TpnCTcmb	NN-1	031731	033160	27. 6	2772	1P36	dDw
I mPmp	04-1	2N4340	2N644	2N 311	2N. N04	3R.	dDw
Ar pecmb	1. 7-1	N6 4346	N66. . 36	N. 1N2NN	N6172N3	1P32	dDw
Ar pecmb	1. 7-2	0N46740	0N17263	0N6 3 1	0N4442.	3P62	dDw
AEsPPcmb	230-1	16. 3	14. 3	16. N	1. N6	P44	dDw
AEsPPcmb	23. -1	0N72	0. 1	0004	0. N1	P7.	dDw
AcC	11N-1	42. 1	0N37	4231	43N	. P72	dDw
AcTsCcmb	4 -1	67. 72	670360	3616N	67N041	3P77	dDw
5 psCcmb	20N-1	026. 1	00. 2N	04360	00414	2P10	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0463-37	tOwTpmb OrTusb r:J	8N
9RrCTI sb DPr:t&:J	q46y 0	&dPmTnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J22J24	&sTsMdPr:usb r:J	34. qFUMRo

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l 0	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	. 1-2	601. 7	64033	60671	60 1	3R73	dDw
YTTr peomb	1 2-1	6613	6 17	6 67	6677	1R21	dDw
YTTr peomb	1 2-2	0033	0620	06. 1	0. 2.	. R2	dDw
YTTr peomb	1 6-1	. 01N	. 626	. 013	. 41N	0R00	dDw
YTTr peomb	1 6-2	12. 62	12412	12 . 1	12. .	1R0.	dDw
YTTpomb	N7-1	11701311	122 34	11 . 322.	117N0734	2R23	dDw
YTTpomb	N7-2	126N011	1261 04	12 47. 3	126N002	3R2	dDw
ZdCd	66-2	1N. 12	1N432	1N437	1N441	3R00	dDw
ZqpdnComb	73-1	477 4	. 17 0	. 3216	. 3 21	2R1.	dDw
ZqpdnComb	71-1	11176	110. .	11. 4	11066	1R4	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-13	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	q469 J	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpr o:	2320-37-14 16:2J:27	&sTsUdP usb r:	346q. FUMd

8spsb r Tnp	9 sww	58l 1	58l 2	58l 0	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	27-2	Jy06yN	JyN762	Jy31NJ	Jy421J	3M10	dDw
qCTb nCh	121-1	17y21	170yJ	17273	17J2N	1Ny7	dDw
qpwr Ccd	7J-2	27J4	2760	2716	2744	3Ny1	dDw
Bspcmb	10J-1	03N44N	013y66	037710	03y342	3MJ	dDw
Bspcmb	107-1	J0J10N	J42014	J264J2	J0460J	1M4y	dDw
Br phPmb	y-1	1y2J	1y6J	2304	1y74	2M7y	dDw
Bcwb mTE	23y-1	J6yy036	J71J3yN	J670377	J6yJN27	3M07	dDw
Bcwb mTE	23y-2	2y4Ny42	033JJ14	031JJ66	2yy3337	1M23	dDw
Bpmb cCr	N1-1	y212	13371	13NNN	133J7	NM00	dDw
5 sob cmb	13N-1	JJ4	J7y	J7J	J6y	2M0J	dDw
5 sob cmb	136-1	4JN4	44N4	41Jy	443y	JM34	dDw
5 sob cmb	111-1	7y40	N303	77J6	7y13	1M77	dDw
5 sPlcmb	40-1	162141	16J434	16JN36	1644J3	1M22	dDw
5 sPlcmb	44-1	2760070	27NJJ41	2N26133	27y1671	1M14	dDw
5 spenC	12-1	14270NJ0	1J043111	1JJ01J11	1J34N4y1	4M3	dDw
5 spenC	12-2	1N6Ny7	1NJ102	1N62NN	1N613J	3M4N	dDw
5 EPmpcCr	0J-1	2206y06J	2602N67N	2N1y26J7	2J603200	11M03	dDw
5 EPmpcCr	0J-2	21JNJ7	2163y4	2262J7	21y430	2M71	dDw
5 Epmb cmb	J2-2	212NJN	21232y	23N737	2111yN	1M34	dDw
5 nesPT	Jy-2	67NN1	67107	67J7y	67J02	3MJ	dDw
5 nDDr p	60-2	04N406	04N42N	046173	04767N	3M0N	dDw
&hwDpnwcmb	1J6-1	2J374	2J033	24JN1	24yNJ	1M47	dDw
&hwDpnwcmb	1J6-2	11422	11Jy2	116yy	11J71	1M21	dDw
Fpecmb	164-1	22406	22344	203J4	22J11	2M26	dDw
Fpecmb	164-2	13111	y613	13371	yy03	2MN3	dDw
GsonPCcmb	163-1	20JN3	24JyN	20Jy7	20y2J	2M44	dDw
GsonPCcmb	163-2	12406	121J6	12262	122NJ	1M1J	dDw
HnPb cmb	16J-1	N473J76	N631436	N0yJ0N6	N4Ny120	1M20	dDw
HnPb cmb	16J-2	0yJ2613	0NN2yJ4	0yJ7362	0y03N7J	1M36	dDw
tCocmb	11J-1	671y062	661736J	6J112y4	661Jy37	1M7	dDw
tCocmb	11J-2	y0626y	y07y76	y26600	y00626	3M06	dDw
tpnC	J4-2	06N20y2	0736N6N	0733y4J	06y670J	3M0J	dDw
tpnC	J6-2	676070yy	6J367771	6J443260	6634N477	2M13	dDw
tpnC	J7-2	16y6466	1710326	167J471	16y4yNN	1M1	dDw
KphDTnC	N0-1	0J7	004	02J	00y	4Ny7	dDw
Lr so	236-1	14y7230	1J2yJ10	14y423J	1J36y74	1M03	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-13	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	q469 J	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2320-37-14 16:2J:27	&sTsUdP usb r:	346q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	237-1	120y03y	12436N2	12J0NN4	124462J	3M6J	dDw
Lr so	23N-1	63JN1N6	614271y	6374JJ4	63y1N1y	3M74	dDw
LdEcmb	6-1	26Jyy06	2J7210y	260N0y1	26204Ny	1M74	dDw
9 sgOr wcmb	24-2	J136y4	J26NNJ	J22JyJ	J233JN	1M61	dDw
9 sOgsOr wr	JJ-2	1267J3J	12JNN60	1264y62	1260777	3M0J	dDw
9 nPheor Ocmb	y4-1	y262	y2J0	y72y	y41J	2MNy	dDw
9 nPheor Ocmb	yJ-1	N6J0	NNyJ	y323	NNJ6	2M11	dDw
9 nPheor Ocmb	y6-1	13J7y	13y21	yy46	134N2	4M72	dDw
9 nPheor Ocmb	y7-1	JJ1N	JJ1N	JJ6N	JJ0J	3M12	dDw
9 nPheor Ocmb	yN-1	143J7	144J3	14J16	14041	1M70	dDw
u r nohb ocmb	1J3-1	07N04	0N6y6	07072	07y67	1M77	dDw
u r nohb ocmb	1J3-2	121y2	11y02	1211y	123N1	1M11	dDw
u cdkr P	63-2	222y4	224N1	22y6J	22JN3	1M10	dDw
8 EnwDEnpmw	01-2	JN0J	JJy0	J763	J72y	2M16	dDw
8 nTswwcmb	0y-2	76NJJ	77266	7776N	772y6	3Mly	dDw
. Enocmb	130-1	6NN0J0y	6622N16	6J14N02	667072y	2MN4	dDw
. Enocmb	130-2	013636J	03700NN	03N416y	03N7N74	3M14	dDw
I dsCocmb	4J-1	40Ny02N	4421723	44y6J67	440JN72	1M24	dDw
I dsCocmb	4J-2	1422J4	140261	142412	142642	3M0N	dDw
I r PCcmb	N2-1	yy	112	y6	132	NM10	dDw
I r PCcmb	77-2	N0	67	J3	67	2JM33	dDw
I r PCcmb	7N-2	J3	74	63	61	1yM0J	dDw
I dPdnC	2N-1	121N37y1	1261y307	1204231J	120N361J	1M7y	dDw
I dPr p	137-1	7132	7132	71J2	711y	3M41	dDw
I dPr p	13y-1	64J2	6J1N	730J	666N	4M7y	dDw
I nocmb	20-2	03004N	03422N	030313	030J2y	3M21	dDw
I TpnCTcmb	N6-1	1142y0	1137y6	1121J7	112416	1M17	dDw
I TpnCTcmb	NN-1	y67376	y62613	yJy611	y603yy	3M0y	dDw
I mPmp	04-1	J3J7y1	J12J40	J37N34	J3N710	3M6N	dDw
Ar pecmb	1Jy-1	N7N6J22	y3y02N7	N7120y6	NN6436N	2M2N	dDw
Ar pecmb	1Jy-2	0y0740N	0N4N1N4	0N42406	0N7631y	1M07	dDw
AEsPcmb	230-1	1J33	1417	103N	143N	6MN2	dDw
AEsPcmb	23J-1	0417	00N4	0476	0426	1M06	dDw
AdC	11N-1	73yJ1	7304N	73236	73J31	3M6	dDw
AdSCcmb	47-1	2y2024	2yJ620	2y3770	2y2y36	3MNJ	dDw
RpsCcmb	20N-1	J3167	4yyN2	4y03J	4yN1N	3Myl1	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-13	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	q469 J	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2320-37-14 16:2J:27	&sTsUdP usb r:	346q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J1-2	N3N13	N3NN7	N134J	N3y14	3M1J	dDw
YTTr peomb	172-1	N130	N04J	7744	N364	0M7J	dDw
YTTr peomb	172-2	4304	0N17	41yJ	431J	4M72	dDw
YTTr peomb	176-1	611N	Jyy0	Jyy0	630J	1M23	dDw
YTTr peomb	176-2	127yJ	10237	106y6	10200	0M41	dDw
YTTpomb	Ny-1	127y0476	12400J4y	120N1367	12J06301	1M7y	dDw
YTTpomb	Ny-2	126y722	12N7610	12J7164	12714yy	1M23	dDw
ZdCd	66-2	17N271	17642y	174Jy3	176403	1M34	dDw
ZqpdnComb	y3-1	11N14	12436	1031J	12411	4MN4	dDw
ZqpdnComb	y1-1	2717	2667	2717	2733	1M37	dDw

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On:7/17/2023 6:34:55 AM
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Lsb psmI Re D :	S0463-11	Dw&umne&Nsme :	8J
RAen&psmI Re D :	c465 6	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO:	2320-37-14 16:2J:26	t s&sFAe Nsme :	347cC. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p0	R8p5 esn	R8pCpt	MnA&w
cRmAAm	27-2	414443	4190y3	41J393	417290	3U61	ql w
cn&Amonh	121-1	9173	9762	13321	96y1	4Uy2	ql w
crwenAq	7y-2	1111	13y7	1123	1396	0U11	ql w
BsrAm	10y-1	119727	1210y1	11929J	12312y	3U93	ql w
BsrAm	107-1	23J03J	239712	234134	23707y	1U41	ql w
BerhPAm	9-1	13y1	903	976	9J6	6U21	ql w
BAmu&E	239-1	yy93716	yy4y943	y6931y9	y63J90J	1U02	ql w
BAmu&E	239-2	2JJ1667	2909431	290yJy0	291J974	1U11	ql w
BromAne	J1-1	y96J	61Jy	y6Jy	y946	4U22	ql w
RsOmAm	13J-1	034	010	0y3	022	7UyJ	ql w
RsOmAm	136-1	0Jy9	0731	0776	077J	2U13	ql w
RsOmAm	111-1	71y2	6J97	6993	7310	1UJ0	ql w
RsRqAm	40-1	4y440	4y077	4y0y1	4y093	3U13	ql w
RsRqAm	44-1	7J7377	774yJ1	776J2y	779494	3UJy	ql w
Rsrbon	12-1	y1y0J14	y0142J7	y476y74	y014J92	0U34	ql w
Rsrbon	12-2	64777	6490y	6y212	6497y	3U04	ql w
REPrAne	0y-1	1906347J	219J7442	20y93J7J	21646266	9UJ7	ql w
REPrAne	0y-2	1776yy	1J1Jy7	1J6740	1J23Jy	2Uy3	ql w
REromAm	y2-2	161794	161474	160201	162167	3UyJ	ql w
RobsR&	y9-2	22J6y	22464	22177	22y32	1Uy4	ql w
RoI I er	60-2	2J9160	2JJy20	294406	29373J	1U12	ql w
t hwI rowAm	1y6-1	12493	10437	12J4J	1291y	0UyJ	ql w
t hwI rowAm	1y6-2	y97J	y74y	y72J	yJ17	2U43	ql w
. rbAm	164-1	11110	1143y	11yyy	110yJ	1U9J	ql w
. rbAm	164-2	47y4	47J4	490J	4J2y	2U34	ql w
GsOoPAm	163-1	11203	12372	12236	11J06	4U47	ql w
GsOoPAm	163-2	62yJ	6012	629J	62J9	3U44	ql w
HomPAm	16y-1	J041210	J2y04J7	J04J349	J0142y3	3U60	ql w
HomPAm	16y-2	0J2y61J	0J412J2	0936032	0Jy7704	1U11	ql w
DnOAm	11y-1	64692y9	604J916	600J334	60Jy090	1U14	ql w
DnOAm	11y-2	93yJ27	932432	914440	937yy7	3U6J	ql w
Don	y4-2	1320649	131J244	131J499	1323103	3U03	ql w
Don	y6-2	19111yJ0	1937J994	192J9230	191y9927	3Uy9	ql w
Don	y7-2	4yy907	4y7191	46yyy0	4y9y63	1U14	ql w
KrhI &on	J0-1	043	299	024	021	6U4J	ql w
LesO	236-1	1y14773	166323y	1y371y7	1y63711	yUy0	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

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Lsb psmI Re D :	S0463-11	Dw&umne&Nsme :	8J
RAen&psmI Re D :	c465 6	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2320-37-14 16:2J:26	t s&sFAe Nsme :	347cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p0	R8p5 esn	R8pCpt	MnA&w
LesO	237-1	12y4601	12y4920	12634y0	12y6669	3U26	ql w
LesO	23J-1	6160293	60103y7	613y431	6190916	1U70	ql w
LA&EAum	6-1	2yy0036	2y6y2y0	2y976y9	2y72370	3UJ9	ql w
5 sgnewAum	24-2	003003	0012y7	026402	029043	3U7J	ql w
5 sngsnewe	yy-2	210130	23J929	212149	211094	1U30	ql w
5 oPbOenum	94-1	4331	4392	0J26	0970	0U41	ql w
5 oPbOenum	9y-1	04y9	0417	0y31	04y9	1U23	ql w
5 oPbOenum	96-1	43J4	4242	0939	437J	4U39	ql w
5 oPbOenum	97-1	20y3	227y	212y	22y3	yU39	ql w
5 oPbOenum	9J-1	y90y	yJ0y	yJJy	yJJy	3UJy	ql w
NeoOhmAum	1y3-1	1J967	19962	19014	19414	2U63	ql w
NeoOhmAum	1y3-2	607J	y9JJ	644y	6273	0U94	ql w
NAqkeP	63-2	1y3JJ	14431	14047	14612	2UJ0	ql w
8EowI Eoruw	01-2	2904	03y3	0342	0339	2U16	ql w
8o&swwAum	09-2	y74J2	y76J0	yJ290	y7J19	3U70	ql w
CEoOAum	130-1	6409797	6y46042	6y0936J	6y3J432	3U91	ql w
CEoOAum	130-2	2976492	0324062	0347040	0316366	1U23	ql w
pqsnOAum	4y-1	4099y70	4006417	4423162	40Jy0J4	1U33	ql w
pqsnOAum	4y-2	1079y6	141740	1419J3	143y63	1U61	ql w
pe&enAum	J2-1	0y	29	40	0y	19U4y	ql w
pe&enAum	77-2	03	03	10	24	09U07	ql w
pe&enAum	7J-2	40	y2	03	42	26Uyy	ql w
pAqon	2J-1	72973yy	739yJy7	7290939	722J943	1Uy9	ql w
pAer	137-1	13146	13262	9634	13334	0Uy1	ql w
pAer	139-1	912J	927J	9262	9220	3UJ9	ql w
poOAum	20-2	J4390	J4326	J13y3	J03y6	2U39	ql w
p&on&Aum	J6-1	432y9	09J66	431J4	43130	3Uy2	ql w
p&on&Aum	JJ-1	040091	04790J	009329	0404y0	1U03	ql w
pu&ur	04-1	420933	417172	42240y	421169	3UJ4	ql w
i erbAum	1y9-1	J64421J	J7J2J3y	J6y7y2J	J694Jy3	3UJJ	ql w
i erbAum	1y9-2	0707196	07J6920	0J19169	07J1396	1U39	ql w
i EsPAum	230-1	117y	1142	1367	112J	4U92	ql w
i EsPAum	23y-1	2604	2639	247y	2y70	0U01	ql w
i A	11J-1	y2204	y2y31	y4426	y03y4	2U2y	ql w
i A&snAum	47-1	226449	202J44	221779	227324	2U4y	ql w
MrsnAum	20J-1	20714	2y276	240J0	244y7	0U23	ql w

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Lsb psml Re D :	S0463-11	Dw&umne&Nsme :	8J
RFen&psml Re D :	c465 6	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO:	2320-37-14 16:2J:26	t s&sFAe Nsme :	347cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p0	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1-2	4y9J3	47626	46J30	46J30	1U76	ql w
Y&erbAum	172-1	0J04	0726	0Jy1	0J30	1U7J	ql w
Y&erbAum	172-2	2367	19J4	1922	1991	0U64	ql w
Y&erbAum	176-1	01y9	0239	0yy9	0039	6Uy9	ql w
Y&erbAum	176-2	11666	11y72	123J9	11776	2U04	ql w
Y&&Aum	J9-1	1172631y	12303729	1230632y	11903920	1U49	ql w
Y&&Aum	J9-2	12304y1	122417y	124611J	1224yJ1	1U74	ql w
ZAnq	66-2	97747	96336	9y620	964y9	1U17	ql w
ZAqonAum	93-1	y304	yy31	y326	y1J7	yU24	ql w
ZAqonAum	91-1	13y3	992	1233	13J1	9U9y	ql w

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Lse l sb DP t&:	S0463-12	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	q469 7	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpr o:	2320-37-14 16:01:2J	&sTsUdP u sb r:	34Nq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	27-2	6203yy	62y0JJ	626y06	626464	3M3	dDw
qCTb nCh	121-1	62J	63N	7y2	67J	1JM2	dDw
qpwr Ccd	7J-2	734	64N	6J7	673	4M4y	dDw
Bspcmb	10J-1	yyNJy	y74J1	y7yJ0	yN421	1M2y	dDw
Bspcmb	107-1	170427	17234J	16yN37	171763	1M36	dDw
Br phPmb	y-1	1362	1343	1312	130N	2M41	dDw
Bcwb mTE	23y-1	J7y3111	J724020	J7N62N3	J766y3J	3M64	dDw
Bcwb mTE	23y-2	0310N12	2y70246	0333172	2yyJ740	3M0y	dDw
Bpmb oCr	N1-1	4NJ1	446N	4031	4J43	6M21	dDw
5 sob cmb	13N-1	2J	0N	42	0J	24MyN	dDw
5 sob cmb	136-1	0Ny2	0404	0626	06J1	6M01	dDw
5 sob cmb	111-1	2y37	2JN6	2771	27JJ	JMN6	dDw
5 sPlcmb	40-1	6N123	6N327	67N2y	67yy2	3M22	dDw
5 sPlcmb	44-1	114yJ42	11Jy033	11J0126	11J0yy3	3M40	dDw
5 spenC	12-1	2N3y474	2N02yJ3	2NJ4630	2N02042	3MN3	dDw
5 spenC	12-2	041yy	00NN1	00770	00yJ1	3M0J	dDw
5 EPmpcCr	0J-1	23N671N6	20NNyy64	2J7yN00J	20J1N4yJ	13M7	dDw
5 EPmpcCr	0J-2	1yNJNy	231724	232NN0	23136J	1M13	dDw
5 Epmb cmb	J2-2	7yNNN	N11J6	N3JNy	N3J44	3M7y	dDw
5 nesPT	Jy-2	40206	42764	42727	42y3y	3M06	dDw
5 nDDr p	60-2	12331y	11N6JN	11yJ61	11y410	3MJN	dDw
&hwDpnwcmb	1J6-1	1yyyy	23041	23366	2310J	3My3	dDw
&hwDpnwcmb	1J6-2	yJ73	yJJ4	y1N3	y40J	2M04	dDw
Fpecmb	164-1	1N6y7	1N021	1N772	1NJy7	1M03	dDw
Fpecmb	164-2	N370	N166	N300	N3y3	3MNJ	dDw
GsonPCcmb	163-1	1yN41	2132J	23374	23010	0M3y	dDw
GsonPCcmb	163-2	13J11	13634	132J7	134JN	1M72	dDw
HnPb cmb	16J-1	N0N7460	NJ6072y	N277307	N43y413	1M72	dDw
HnPb cmb	16J-2	43Ny44N	43J34J4	43277y3	43JJNy7	3M77	dDw
tCocmb	11J-1	6J44274	6J7N0NJ	644y26y	6J20y76	1M30	dDw
tCocmb	11J-2	y6J46J	yJ6620	y07yJ2	yJ0047	1M47	dDw
tpnC	J4-2	227N1J6	2204y13	221y4JJ	2244174	1M06	dDw
tpnC	J6-2	437JJyN7	4311676N	0yN23326	43203y27	1M1y	dDw
tpnC	J7-2	y60y2N	yJ27N1	y63626	yJy111	3M63	dDw
KphDTnC	N0-1	261	2N7	027	2y2	11M42	dDw
Lr so	236-1	J7JJ3	JJ7yN	JJ131	J614y	2M2J	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p: LB126466 SDr psTnp: aswl sP

Lse l sb DPP t&: S0463-12 tOwTpmb Or Tu sb r: 8N

5 Pr CTI sb DPP t&: q469 7 &dPmTcnC UsdTnp: 1

&sTr i Adb r qdOmpr o: 2320-37-14 16:01:2J &sTsUdP usb r: 34Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	237-1	46y32	4J62J	4771J	46747	2M2J	dDw
Lr so	23N-1	2170y7	21J41J	2231J4	2176J6	1M3y	dDw
LdEcmb	6-1	2JN441y	26004N7	2632yJy	2636yJJ	3MJ	dDw
9 sgOr wcmb	24-2	1231673	1232NN4	12J04N0	121y04J	2M40	dDw
9 sOgsOr wr	JJ-2	007441	0042NJ	00Jy1J	00JNN3	3M47	dDw
9 nPheor Cmb	y4-1	4J26	4N6N	4N40	474J	4M32	dDw
9 nPheor Cmb	yJ-1	12y2	1467	12JN	100y	NM06	dDw
9 nPheor Cmb	y6-1	2J7J	20y2	247J	24N1	0M73	dDw
9 nPheor Cmb	y7-1	1342	N67	N17	y3N	10M31	dDw
9 nPheor Cmb	yN-1	2004	21y2	20y2	2036	4M46	dDw
u r nohb cmb	1J3-1	03121	01313	03NJ6	03662	1MJ	dDw
u r nohb cmb	1J3-2	y624	133y7	13041	13323	0M04	dDw
u cdkr P	63-2	013N7	03JN0	03y17	03N62	3MN0	dDw
8 EnwDEnpmw	01-2	0N76	04y2	0yJy	0776	6Mly	dDw
8 nTswwcmb	0y-2	236276	23y1N1	237J26	237661	3M73	dDw
. Enocmb	130-1	6JJ16N2	6631760	6J3N143	6JJ0N62	3M71	dDw
. Enocmb	130-2	0176J02	023J446	0126706	016yJ71	1M26	dDw
l dsCocmb	4J-1	40J2yy2	4J0y611	40J171J	4414770	2M4J	dDw
l dsCocmb	4J-2	146627	144N4N	14J36N	14JJ1J	3M07	dDw
l r PCcmb	N2-1	N4	16	-1	00	106M0J	dDw
l r PCcmb	77-2	07	70	63	J7	02M7J	dDw
l r PCcmb	7N-2	0N	40	0y	43	6M61	dDw
l dPdnC	2N-1	N634410	N40JJ4y	NJ11140	NJ1730J	3Mly	dDw
l dPr p	137-1	J7J	4J3	617	J47	1JMNJ	dDw
l dPr p	13y-1	4N0	J2J	J2J	J11	4M71	dDw
l nocmb	20-2	6N367	66N23	67J6J	674N4	3Ml0	dDw
l TpnCTcmb	N6-1	2J424	264Jy	27332	262yJ	0M3J	dDw
l TpnCTcmb	NN-1	226124	21N426	221763	222130	1M74	dDw
l mPmp	04-1	2y32JN	2y30J3	2y0224	2y1277	3MlN	dDw
Ar pecmb	1Jy-1	N6N60JN	Ny66136	N76J763	NN3637J	1M64	dDw
Ar pecmb	1Jy-2	0yJN220	07JN164	0N4J46J	0NJ0yJ3	2M63	dDw
AEsPPcmb	230-1	N42	N7J	NJN	NJN	1Ml4	dDw
AEsPPcmb	23J-1	23N4	23N4	1NN4	2317	JM70	dDw
AdC	11N-1	0667	0J04	07J1	06J1	2Mly	dDw
AdSCcmb	47-1	7J71JJ	7JJN2J	767J66	7631N2	3MNJ	dDw
RpsCcmb	20N-1	16061	16N73	16N4J	166y2	1M72	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-12	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	q469 7	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2320-37-14 16:01:2J	&sTsUdP usb r:	34Nq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J1-2	6740J	672y1	67670	67466	3M2y	dDw
YTTr peomb	172-1	J731	J76N	J2NJ	JJNJ	4M6y	dDw
YTTr peomb	172-2	2767	2y61	2yNy	2y36	4M17	dDw
YTTr peomb	176-1	4031	4y6N	44y0	4JN7	7M4y	dDw
YTTr peomb	176-2	123N4	12720	10046	12717	4Myl6	dDw
YTTpomb	Ny-1	120044Ny	12J34007	11yJN07y	1226J70J	2M2N	dDw
YTTpomb	Ny-2	1030310	127774y	1272J22	12N442N	1M27	dDw
ZdCd	66-2	21J36	23y1y	23y02	2111y	1Myl	dDw
ZqpdnComb	y3-1	11272	11146	11460	112y4	1M41	dDw
ZqpdnComb	y1-1	20N4	2642	207J	2467	6M1J	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-10	Dns&umne&Name :	P8
5 lAen&pamI le D :	c46N3	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:04:27	t a&aUAe Name :	34Cc. FUM0

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
c lumAnAum	27-2	137C086	1372617	1370238	137y373	3M0y	ql s
c n&Amonh	121-1	667	y80	800	6C4	18M00	ql s
c rsenAq	7y-2	CC2	13y2	C71	133y	4M18	ql s
BarAum	10y-1	101476	1280y6	12C7Cy	12C87y	1M23	ql s
BarAum	107-1	22631y	22832y	224y26	226188	3M78	ql s
BerhllAum	C-1	27y1	27y7	272y	274y	3M60	ql s
BAsmu&E	23C-1	y708C62	y746272	y74y686	y740643	3M37	ql s
BAsmu&E	23C-2	2C01C11	2867701	2C18304	2C3y8C2	1M16	ql s
BromAne	81-1	4y26	42C2	4031	4070	0M30	ql s
5 aCmAum	138-1	7y	7y	C6	82	14M68	ql s
5 aCmAum	136-1	0C31	04y1	003C	0yy0	8M73	ql s
5 aCmAum	111-1	014C	2703	2728	286C	8M4y	ql s
5 alqAum	40-1	80601	841y4	8y027	84071	1M30	ql s
5 alqAum	44-1	1y23710	1y20781	1y16014	1y2326C	3M2y	ql s
5 arbon	12-1	27043C4	2710644	27y081C	27008y2	3M70	ql s
5 arbon	12-2	021y2	01C32	0188y	01C83	3M47	ql s
5 ElorAne	0y-1	21311634	20CC6C16	260C160y	208333y2	11M00	ql s
5 ElorAne	0y-2	1C6148	1CC362	2316y6	1C8Cyy	1M08	ql s
5 EromAum	y2-2	724C0	71408	73881	71634	1M14	ql s
5 obal&	yC-2	712y1	6CC81	6CCC8	73413	1M30	ql s
5 ol I er	60-2	8774y	87840	86874	87487	3M61	ql s
t hsI rosAum	1y6-1	08188	08222	0C12y	08y12	1M08	ql s
t hsI rosAum	1y6-2	16734	17104	16yC4	16811	1M73	ql s
FrbAum	164-1	02170	024y7	01021	01C84	1M8y	ql s
FrbAum	164-2	10070	10y44	100y3	10422	3M7C	ql s
GaColAnAum	163-1	04760	0y103	0y372	04C88	3M46	ql s
GaColAnAum	163-2	17471	17642	1744y	17y1C	3M61	ql s
HolmAum	16y-1	8y83786	8686064	84y07yy	8y7060y	1M06	ql s
HolmAum	16y-2	08C3631	08314C4	08481C3	0846762	1M16	ql s
DnOAum	11y-1	6478867	6y64486	6y62yy7	6y0y034	3M7y	ql s
DnOAum	11y-2	C38C64	C30608	C301C3	C3y264	3M0y	ql s
Don	y4-2	082C436	0847671	076y443	0814172	1M10	ql s
Don	y6-2	68y82147	6C030230	66873CC0	682y2114	1M30	ql s
Don	y7-2	17616C3	174y428	1703C0y	1746318	3M68	ql s
Krhl &on	80-1	0y6	032	2CC	01C	13M68	ql s
LeaO	236-1	132168	130160	133820	1323y1	1M1y	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab paml le D :	S0463-10	Dns&umne&Name :	P8
5 lAen&paml le D :	c46N3	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:04:27	t a&aUAe Name :	34Cc. FUM

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
LeaO	237-1	80228	80Cy0	82Cy4	80078	3M62	ql s
LeaO	238-1	0C227y	0Cyy27	0C3748	0C28y3	3M62	ql s
LA&EAum	6-1	2y834y4	2644388	2yC4041	26362C4	1M28	ql s
9 agnesAum	24-2	11y1437	1171y3y	11034y8	11y1120	1M78	ql s
9 anganese	yy-2	660286	66C177	6y8yy8	660674	3M83	ql s
9 olhbOenum	C4-1	128y6	10102	124y6	1281y	2M6y	ql s
9 olhbOenum	Cy-1	162y	1067	1742	1y78	12M16	ql s
9 olhbOenum	C6-1	4167	40y1	08y1	4120	6M14	ql s
9 olhbOenum	C7-1	1367	1133	Cy3	130C	7My8	ql s
9 olhbOenum	C8-1	2667	2yy3	2y42	2y86	2M73	ql s
NeoChmAum	1y3-1	y883C	y8372	y7yC6	y81yC	1M7y	ql s
NeoChmAum	1y3-2	18142	1837C	181C6	1810C	3M02	ql s
NAqkel	63-2	0y274	0y7y8	0y120	0y08y	3M04	ql s
PEosI Eorus	01-2	4276	4031	4431	4026	1My0	ql s
Po&assAum	0C-2	232388	23y340	1C87y8	231C60	1My6	ql s
. EoOAum	130-1	6421372	6y34223	6072C40	640274y	1M30	ql s
. EoOAum	130-2	0310330	2CC7128	0312743	0337624	3M03	ql s
pqanOAum	4y-1	4y37y14	4410802	4400010	44y1yy0	1M11	ql s
pqanOAum	4y-2	141327	10Cy71	143Cy4	143y17	3My8	ql s
pelenAum	82-1	-1C	04	6y	27	1y8M0	ql s
pelenAum	77-2	80	C3	77	80	8M33	ql s
pelenAum	78-2	61	6y	64	60	0M2C	ql s
pAAqon	28-1	1y804472	1yCyCC6y	16348382	1yC47y36	3M67	ql s
pAver	137-1	yy8	0y8	4C2	46C	21M6C	ql s
pAver	13C-1	442	1y8	267	28C	4CM4C	ql s
poOAum	20-2	48674	4CC06	4C618	4C43C	1M00	ql s
p&ona&um	86-1	C6400	C2422	Cy120	C4663	2M16	ql s
p&ona&um	88-1	822y10	812718	81378y	81y00C	3M77	ql s
pulfur	04-1	2C2463	28644C	284670	287861	1M42	ql s
i erbAum	1yC-1	8700C23	8717764	878670C	8746141	3M41	ql s
i erbAum	1yC-2	0732816	07yy733	0666133	073823y	1M21	ql s
i EallAum	230-1	1y38	1617	16C2	1636	yM74	ql s
i EallAum	23y-1	0y17	0617	07yC	0601	0M7y	ql s
i A	118-1	4C3C	4818	48y1	48yC	3M0y	ql s
i A&anAum	47-1	80Cy3C	8y6104	847yy0	847702	3M08	ql s
RranAum	208-1	44327	407y2	40CC4	40C24	3M04	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-10	Dns&umne&Name :	P8
5 lAn&pamI le D :	c46N3	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 16:04:27	t a&aUAe Name :	34Cc. FUM

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
VanaOAum	y1-2	Cy0C8	C4127	Cy171	C48CC	3M71	ql s
Y&erbAum	172-1	C1y0	C4Cy	C387	C24y	2M07	ql s
Y&erbAum	172-2	y337	47y1	4y4y	4768	4M8y	ql s
Y&erbAum	176-1	720y	6777	70y2	7122	4M27	ql s
Y&erbAum	176-2	1038y	10268	10274	1023C	3M81	ql s
Y&&Aum	8C-1	1214478C	12780012	1242066y	124y3y8C	2M47	ql s
Y&&Aum	8C-2	124686y	12y2877	124y6y8	1248467	3M01	ql s
ZAnq	66-2	03C43	03y33	03C04	037C1	3M82	ql s
ZAqonAum	C3-1	020yy	040y1	02107	02C48	0M73	ql s
ZAqonAum	C1-1	7232	70C4	681C	7108	4M13	ql s

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Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-14	Dns&umne&Name :	P8
5 lAen&pamI le D :	c469 4	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:07:24	t a&aUAe Name :	3C3c. FUMD

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp 0	5 Pp 9 ean	5 Pp. pt	RnA&s
c lumAnAum	27-2	802C33	816722	8144C6	821226	1M23	ql s
c n&Amony	121-1	4C3	C67	67C	C64	1hM16	ql s
c rsenAq	7C-2	062	070	088	074	0M4h	ql s
BarAum	10C-1	113728	1121h6	111C41	111488	3M66	ql s
BarAum	107-1	1h0808	1h4721	1h4437	1h4022	3M20	ql s
BerylIAum	h-1	1C47	1C36	14hC	1C16	1M62	ql s
BAsmu&E	23h-1	C680C70	CC728C0	C443C0C	CC6C6C4	2M1h	ql s
BAsmu&E	23h-2	2h4C1h7	0224201	2h24431	0301276	CM02	ql s
BromAne	81-1	4C04	4076	4276	40hC	2M16	ql s
5 aOmAum	138-1	C3	C4	C8	C4	7M6h	ql s
5 aOmAum	136-1	0684	0604	002C	0C48	CM47	ql s
5 aOmAum	111-1	271C	2732	2C2C	2647	4M31	ql s
5 alqAum	40-1	4h886	4hh60	4870C	4hC28	1M0h	ql s
5 alqAum	44-1	8C0h42	847263	847C21	84hC74	3M4C	ql s
5 arbon	12-1	272Ch40	2678878	26h1670	26h8802	3M13	ql s
5 arbon	12-2	01h63	01031	02428	018h6	1M78	ql s
5 ElorAne	0C-1	20131644	2671C737	28h0384h	2624h433	11M21	ql s
5 ElorAne	0C-2	2181h2	21C4C4	218h34	217C16	3M84	ql s
5 EromAum	C2-2	622h1	61h47	62834	62047	3M6h	ql s
5 obal&	Ch-2	47713	46807	48486	47678	1M70	ql s
5 ol I er	60-2	7C6C7	74206	74170	7468h	1M12	ql s
t ysI rosAum	1C6-1	24081	24C70	20683	24211	1M14	ql s
t ysI rosAum	1C6-2	111h8	13678	11278	113C1	2M1C	ql s
FrbAum	164-1	23600	21384	21C0C	21384	2M14	ql s
FrbAum	164-2	8Ch0	8h70	8C60	8713	2M60	ql s
GaColAnAum	163-1	202h6	20C10	21hh4	22h04	0M08	ql s
GaColAnAum	163-2	1144C	11318	11338	111C7	2M24	ql s
HolmAum	16C-1	808876C	802C114	801C633	8040163	3M48	ql s
HolmAum	16C-2	0848833	4274626	0814h41	0h7h4C6	6M44	ql s
DnOAum	11C-1	6467h13	602h313	6412324	6432h81	1M3h	ql s
DnOAum	11C-2	h32h76	h84647	h30377	h03200	CM37	ql s
Don	C4-2	2087872	2002104	2077330	206C673	1M2C	ql s
Don	C6-2	4222442C	41Ch033h	421401CC	41h86860	3M62	ql s
Don	C7-2	1311116	hh71h0	1314C6h	1337626	3M11	ql s
Kryl &on	80-1	011	014	272	2hh	7M70	ql s
LeaO	236-1	73C14	73437	6hh63	732h4	3M42	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab paml le D :	S0463-14	Dns&umne&Name :	P8
5 lAen&paml le D :	c469 4	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:07:24	t a&aUAe Name :	3C3c . FUM

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp 0	5 Pp 9 ean	5 Pp . pt	RnA&s
LeaO	237-1	C7770	C7C11	CCC83	C6hCC	2M13	ql s
LeaO	238-1	268C24	26h6C1	26C606	267h07	3M77	ql s
LA&EAum	6-1	2C81Ch1	2CC3781	2Ch2143	2C74808	3M80	ql s
9 agnesAum	24-2	h6CC33	hC4hh7	h642hh	h61Chh	3M63	ql s
9 anganese	CC-2	261263	2C77C1	266060	2617h2	1M6C	ql s
9 olybOenum	h4-1	884C	h323	8444	8773	0M06	ql s
9 olybOenum	hC-1	633	CC3	CC3	C67	C7h	ql s
9 olybOenum	h6-1	2367	2117	202C	2173	6M02	ql s
9 olybOenum	h7-1	067	0C8	2h2	00h	12M10	ql s
9 olybOenum	h8-1	h2C	h17	1317	hC0	C6h2	ql s
NeoOymAum	1C3-1	0720h	08248	08C1C	08331	1M77	ql s
NeoOymAum	1C3-2	1168h	1183h	12262	11h23	2M04	ql s
NAqkel	63-2	20837	20837	20723	20778	3M21	ql s
PEosI Eorus	01-2	2304	18Ch	2242	234C	hM0h	ql s
Po&assAum	0h-2	23123h	1h2420	1hh706	1h778h	2M08	ql s
. EoOAum	130-1	6412121	623C838	61hCC34	6271144	1M1C	ql s
. EoOAum	130-2	037hC84	02h4676	032436C	010277C	4M06	ql s
pqanOAum	4C-1	4066C0C	4032874	4228740	42hh084	1M63	ql s
pqanOAum	4C-2	1421C2	1C30C0	1081h1	140C6C	4M02	ql s
pelenAum	82-1	04	-21	Ch	24	172M0C	ql s
pelenAum	77-2	67	00	40	48	0C7h1	ql s
pelenAum	78-2	47	4C	42	4C	C7h0	ql s
pAAqon	28-1	1Ch43400	1CCh3C10	1C43C000	1C64C426	1M74	ql s
pAver	137-1	C38	C2C	638	C47	hM7h	ql s
pAver	13h-1	C42	CC8	600	C78	8M4C	ql s
poOAum	20-2	60636	6227C	60021	60367	1M11	ql s
p&onA&um	86-1	02h14	00C24	0C306	0082C	0M20	ql s
p&onA&um	88-1	2822h8	288231	283h31	280833	1M07	ql s
pulfur	04-1	2h1h23	2h2626	28844C	2h3hh7	3M77	ql s
i erbAum	1Ch-1	8747428	8C00770	8C1h210	8633108	1M4h	ql s
i erbAum	1Ch-2	070072h	414C0h8	0744068	08744h8	6M36	ql s
i EallAum	230-1	127C	1442	14C8	10h2	7M2h	ql s
i EallAum	23C-1	0CCh	0867	00C1	0Ch2	7M24	ql s
i A	118-1	C33h	C276	4h40	C376	0M48	ql s
i A&anAum	47-1	68h828	6h6136	6h0684	6h0236	3M46	ql s
RranAum	208-1	04843	0031h	0087h	00h10	2M0h	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-14	Dns&umne&Name :	P8
5 lAn&pamI le D :	c469 4	t Au&on Uaq&or :	1
t a&e T i Ane c qduAeO:	2320-37-14 16:07:24	t a&aUAe Name :	3C3c. FUM

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
VanaOAum	C1-2	66433	60h4h	64h33	6C380	1M13	ql s
Y&erbAum	172-1	6C13	676h	Ch40	6437	6M2h	ql s
Y&erbAum	172-2	0020	2h0h	0C20	0262	hM7h	ql s
Y&erbAum	176-1	C276	C1Ch	C3Ch	C16C	2M13	ql s
Y&erbAum	176-2	12070	10060	12770	12806	0M38	ql s
Y&&Aum	8h-1	1227104h	1236068h	116h4780	1233hh43	2M40	ql s
Y&&Aum	8h-2	1243C33	10h3480	12400h0	12h14Ch	6M74	ql s
ZAnq	66-2	18880	1h323	18Chh	18804	1M14	ql s
ZAqonAum	h3-1	22h6h	20311	22068	22780	1M28	ql s
ZAqonAum	h1-1	C4C1	C118	CC18	C062	4M33	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0463-17	tOwTpmb Or TusbR:J	8N
5 PrCTI sb DPP:t&:J	q469 N	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J43J26	&sTsUdP:usb r:J	371q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCcmb	2 -2	262660	267 3	264261	264202	3M7y	dDw
qCTb nCh	121-1	6331	76 6	7y 6	7NN7	0M3	dDw
qpwr Ccd	7-2	6y2	6y4	30	6y6	3MM4	dDw
Bspcmb	107-1	y6730	y yN	yyN07	yN13N	1M3	dDw
Bspcmb	10 -1	16 y1y	1 4336	16y717	1 34N3	1MM7	dDw
Br phPmb	y-1	76y	62y	667	621	MM0	dDw
Bcvb mTE	23y-1	7 4420y	764y116	7 3yN21	7 3137y	3MM4	dDw
Bcvb mTE	23y-2	00 1 y3	2y6yN 7	2y 4073	013700y	M40	dDw
Bpmb dCr	N1-1	72y0	7271	7763	706N	0M12	dDw
5 sob cmb	13N-1	146	1NN	146	163	17M36	dDw
5 sob cmb	136-1	0y3y	0y1	0NN4	0y30	3M44	dDw
5 sob cmb	111-1	4 3y	4 67	4610	46y6	1M04	dDw
5 sPdcmb	40-1	63N 3	62 73	62420	62314	1M62	dDw
5 sPdcmb	44-1	13416N6	1364420	134 701	1371210	1M12	dDw
5 spenC	12-1	0NNy21N	0yy2413	0yyN40	0y63322	1M77	dDw
5 spenC	12-2	4 41y	46220	4 47	4 12y	1M3	dDw
5 EPmpdCr	07-1	21N64267	270y3y64	2 4N7y74	24y10 2	11M43	dDw
5 EPmpdCr	07-2	230 61	23 4y7	23y3N4	236 N3	1M02	dDw
5 Epmb cmb	72-2	67Ny4	6 12	66 47	667Ny	3My7	dDw
5 nesPT	7y-2	23331	23632	23411	2300N	1M71	dDw
5 nDDr p	60-2	10N13N	10N746	10y 1	10NN3N	3M62	dDw
&hwDpnwcmb	176-1	12N43	12y20	12 17	12N26	3MM2	dDw
&hwDpnwcmb	176-2	74y1	7Ny7	7767	7673	0MM3	dDw
Fpecmb	164-1	13074	136NN	132y6	13446	2M32	dDw
Fpecmb	164-2	420	4774	40y1	40y4	0M63	dDw
GsonPCcmb	163-1	11y0y	12364	123N1	1232N	3M64	dDw
GsonPCcmb	163-2	7NN1	7N6N	6111	7y74	2M03	dDw
HnPb cmb	167-1	N4N0 3y	N413y41	N73440	N466062	3M7N	dDw
HnPb cmb	167-2	4462237	0y2736y	0N12 40	43666 2	NM74	dDw
tCocmb	117-1	67N6661	6631261	671y 36	676y23y	3M66	dDw
tCocmb	117-2	1344y23	y06434	y36201	y6271N	M7N	dDw
tpnC	74-2	132613y	1324207	130yy02	13033y2	3MM0	dDw
tpnC	76-2	1N 0y7 0	1yN y77	1yN1N10	1y4 N777	0M2y	dDw
tpnC	7 -2	47 131	4 3N0	46NN76	4677yN	1M7y	dDw
KphDTnC	N0-1	2yy	2 4	022	2yN	NM1	dDw
Lr so	236-1	y36 40	y22207	y3 3 N	y1231y	3My	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0463-17	tOwTpmb Or TusbR:J	8N
5 PrCTI sb DPP:t&:J	q469 N	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpro:J	2320-3 -14:16J43J26	&sTsUdP:usb r:J	371q. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	23 -1	4y03N	72 y2	7436y	7237	3M00	dDw
Lr so	23N-1	06N0N11	0 17771	06y3330	06y6477	3M46	dDw
LdEomb	6-1	27 13y7	27447N4	27N4076	27666 y	3My	dDw
9 sgOr womb	24-2	2N6 32	2y31N2	2N4206	2N 343	1M34	dDw
9 sOgsOr wr	77-2	2367y7	212131	212760	213423	1M7N	dDw
9 nPheor Omb	y4-1	036	01N4	2y73	036	0MM1	dDw
9 nPheor Omb	y7-1	2127	24 7	213y	2206	yM26	dDw
9 nPheor Omb	y6-1	2627	271	2604	27y2	2M71	dDw
9 nPheor Omb	y -1	1133	106	11 7	1214	11M00	dDw
9 nPheor Omb	yN-1	0 y2	003y	0 31	0631	M10	dDw
u r nohb omb	173-1	1yy22	23042	23N30	23076	2M1	dDw
u r nohb omb	173-2	6111	607N	623N	6226	2M33	dDw
u odkr P	63-2	y 0	yy1	yNN	yN4	3MyN	dDw
8 EnwDEnpmw	01-2	2 04	2N1	2N3y	2 N6	1M67	dDw
8 nTswwomb	0y-2	60 16	67067	62432	60N2N	2M00	dDw
. Enoomb	130-1	64N2yy	6636y4y	646 1N2	671y340	1M1	dDw
. Enoomb	130-2	04 0234	02247y4	03y323N	026266y	7My6	dDw
I dsCoomb	47-1	40274N4	4012 74	40y13y6	4040111	3My	dDw
I dsCoomb	47-2	17N311	1406 4	143463	14 0N2	6M04	dDw
I r PPomb	N2-1	16	0	12	13	6MM24	dDw
I r PPomb	-2	23	10	0	20	71M72	dDw
I r PPomb	N-2	03	02	2y	03	7M34	dDw
I dPdnC	2N-1	626631y	640y27	643N341	60 1136	1M47	dDw
I dPr p	13 -1	0042	0742	0431	042N	0M33	dDw
I dPr p	13y-1	047y	006	0604	04N	0MMy	dDw
I noomb	20-2	yy1y	N10	N1163	N3N1y	3My	dDw
I TpnCTomb	N6-1	03731	2y 02	0112N	03470	2M03	dDw
I TpnCTomb	NN-1	261471	261202	27 7 2	2633N7	3MM4	dDw
I mPmp	04-1	010431	014230	0220N	016660	1M7	dDw
Ar peomb	17y-1	N N3130	N 07N63	N y70 1	N 3447	3M07	dDw
Ar peomb	17y-2	4224y44	0y30yNN	0 23116	0y4y6N2	6M4	dDw
AEsPPomb	230-1	27	NN0	600	4	16My0	dDw
AEsPPomb	237-1	1 N4	223y	1y42	1y N	13MM6	dDw
AdC	11N-1	2yN00	03 13	03731	0304N	1M71	dDw
AdSOomb	4 -1	22N416	22N764	201 N	22y7Ny	3MM0	dDw
RpsOomb	20N-1	173 6	17407	1473y	17336	0M11	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0463-17	tOwTpmb OrTusb r:J	8N
5PrCTI sb DPP:t&:J	q469 N	&dPnTnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2320-3 -14:16J43J26	&sTsUdP:usb r:J	371q. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	71-2	2621N	26yy6	2 770	26y22	2M4y	dDw
YTTr peomb	1 2-1	0304	00N4	2N27	03N1	yM16	dDw
YTTr peomb	1 2-2	17 N	1722	1400	1711	4MM2	dDw
YTTr peomb	1 6-1	016	00 6	2 27	03Ny	13M7	dDw
YTTr peomb	1 6-2	12 12	11066	1124y	11 6	6My3	dDw
YTTpomb	Ny-1	122 4 N6	12234261	11y11670	12103204	1M7y	dDw
YTTpomb	Ny-2	147221y	12 2147	1243300	1021466	NM07	dDw
ZdCd	66-2	61 1	60376	62162	62012	1M3y	dDw
ZqpdnComb	y3-1	4 N4	4 04	73N4	4N6N	0MMy	dDw
ZqpdnComb	y1-1	1142	1000	137N	11 N	11My	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-16	Dns&umne&Name :	P8
5 lAen&pamI le D :	c469 y	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:40:26	t a&aUAe Name :	3C2c. FUM0

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
c lumAnAum	27-2	072y78	072281	06yy46	07170C	3M40	ql s
c n&Amonh	121-1	13C34	13087	11371	136C4	0M40	ql s
c rsenAq	7C-2	10CC	1068	1447	10y3	0M08	ql s
BarAum	10C-1	114247	110y06	111146	110113	1M01	ql s
BarAum	107-1	1y8412	1y2664	1y82y7	1y64C8	1M67	ql s
BerhlIAum	y-1	11Cy	1162	1111	1144	2M03	ql s
BAsmu&E	23y-1	Cy87472	632y4C4	C767126	Cy28317	2M08	ql s
BAsmu&E	23y-2	2y20y28	28y1631	287C418	28y6y80	3M8C	ql s
BromAne	81-1	4804	C2y0	C040	C1C7	C144	ql s
5 aOmAum	138-1	217	234	160	1y4	14M0y	ql s
5 aOmAum	136-1	4004	4376	43Cy	41C6	0M71	ql s
5 aOmAum	111-1	C182	4y6y	4y11	C321	2M8C	ql s
5 alqAum	40-1	41C01	42318	418yy	41816	3M61	ql s
5 alqAum	44-1	713042	738321	721280	71021C	3M1y	ql s
5 arbon	12-1	41C1C33	4268604	42C718y	422C774	1M00	ql s
5 arbon	12-2	4y763	4y813	4y200	4y631	3M04	ql s
5 ElorAne	0C-1	212C3384	2463y121	26C87476	241488y4	11M17	ql s
5 ElorAne	0C-2	1y7144	23003C	236723	2320y3	2M43	ql s
5 EromAum	C2-2	y3481	88401	y3763	8y8y1	1M41	ql s
5 obal&	Cy-2	40466	40821	40C33	40CyC	3M4C	ql s
5 ol I er	60-2	2C6824	2C6Cy7	2C0yyC	2CC83C	3M61	ql s
t hsI rosAum	1C6-1	10402	10474	1434y	106C2	2M00	ql s
t hsI rosAum	1C6-2	6448	Cy28	6082	62C0	4M00	ql s
FrbAum	164-1	102C7	12yy3	100y3	10212	1M04	ql s
FrbAum	164-2	C681	C678	CC71	C640	1M11	ql s
GaColAnAum	163-1	102C7	12yy3	1044y	10202	1M74	ql s
GaColAnAum	163-2	678C	648C	6C0C	6632	2M44	ql s
HolmAum	16C-1	8y71838	874C168	8602328	8780331	1M17	ql s
HolmAum	16C-2	0823240	0804466	0832y16	081y238	3M41	ql s
DnOAum	11C-1	678680C	68618C0	6683873	6776C1y	1M04	ql s
DnOAum	11C-2	y12C02	8y742y	y3C072	y3C111	3M80	ql s
Don	C4-2	001y2y2	0283681	002CCyy	0038C24	3M74	ql s
Don	C6-2	Cyy1488C	63781468	631y282y	632y60y4	3M70	ql s
Don	C7-2	1C26y03	1C60221	1C128C1	1C04004	1M6y	ql s
Krhl &on	80-1	011	031	001	01C	4M8C	ql s
LeaO	236-1	13488C1	138284y	13y2211	1374607	2M12	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-16	Dns&umne&Name :	P8
5 IAen&pamI le D :	c469 y	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:40:26	t a&aUAe Name :	3C2c. FUM

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
LeaO	237-1	8y2C7y	87y44C	y3y126	8y0717	1M6	ql s
LeaO	238-1	4071761	4071061	4444443	40yC8C4	3M6	ql s
LA&EAum	6-1	2738y21	271y086	2623y1C	2680374	2M2	ql s
9 agnesAum	24-2	420484	421184	41C020	41yyy7	1M3	ql s
9 anganese	CC-2	y0C78y	y47483	y012y2	y08187	3M8y	ql s
9 olhbOenum	y4-1	C48C	C03y	CC31	C402	1M6	ql s
9 olhbOenum	yC-1	043y	2y67	013y	0162	7M4	ql s
9 olhbOenum	y6-1	4131	41y2	4317	4130	2M0	ql s
9 olhbOenum	y7-1	2142	1y3y	222C	23y2	7M8C	ql s
9 olhbOenum	y8-1	4y84	C3Cy	C263	C131	2M7y	ql s
NeoChmAum	1C3-1	1y828	18623	1y041	1y260	0M6	ql s
NeoChmAum	1C3-2	C841	613C	6308	CyyC	2M2y	ql s
NAqkel	63-2	2671C	267yy	26C78	266y7	3M2	ql s
PEosI Eorus	01-2	03C3	2y04	2y42	2y7C	2M1y	ql s
Po&assAum	0y-2	C1626	C1484	C1324	C1078	3M1	ql s
. EoOAum	130-1	6y62234	6817182	6C8860C	678y043	2M7	ql s
. EoOAum	130-2	038301y	0317636	0338Cy2	030CC36	1M2y	ql s
pqanOAum	4C-1	4700743	4672127	446y241	462C306	2M4y	ql s
pqanOAum	4C-2	143331	107148	108201	108463	1M4	ql s
pelenAum	82-1	62	73	C3	61	16M3	ql s
pelenAum	77-2	03	07	23	2y	2yM4	ql s
pelenAum	78-2	41	C0	44	46	10M0y	ql s
pAAqon	28-1	78y81C2	782C8C4	7yyCy0C	7y36647	1M8	ql s
pAver	137-1	4C04	4276	40y2	4431	2M4	ql s
pAver	13y-1	0Cy2	0y26	073y	0742	4M2	ql s
poOAum	20-2	74303	708C4	72CCC	70483	1M3	ql s
p&on&Aum	86-1	0664y	068yy	0618y	06C7y	3M8	ql s
p&on&Aum	88-1	013y36	03y160	01C478	01184y	1M3C	ql s
pulfur	04-1	024877	02C6y1	02y1C2	026C70	3M3	ql s
i erbAum	1Cy-1	y34y1C0	y3y26C2	8y2y01C	y320737	3M4	ql s
i erbAum	1Cy-2	0786yy6	061686C	07y6y24	0700CyC	2M1	ql s
i EallAum	230-1	8C8	y17	833	8C8	6M3	ql s
i EallAum	23C-1	232C	1y2C	2104	2328	CM4	ql s
i A	118-1	6C64y	66011	6832y	66660	1M4	ql s
i A&anAum	47-1	26C271	2618C0	260y26	260684	3M6C	ql s
RranAum	208-1	211C1	20372	21C63	21y28	4M1	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-16	Dns&umne&Name :	P8
5 lAn&pamI le D :	c469 y	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 16:40:26	t a&aUAe Name :	3C2c. FUM

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
VanaOAum	C1-2	C1y27	C2446	C0C20	C2602	1M0C	ql s
Y&erbAum	172-1	4126	4426	443y	4023	0M3	ql s
Y&erbAum	172-2	204C	204C	2104	2274	C0M6	ql s
Y&erbAum	176-1	4326	0704	0C67	0776	6M1C	ql s
Y&erbAum	176-2	1234C	11y11	110y4	11780	2My2	ql s
Y&&Aum	8y-1	127y34yy	127783y8	1203432y	1262423y	2M23	ql s
Y&&Aum	8y-2	122746C	1230830	12163C7	121C77C	3My7	ql s
ZAnq	66-2	130777	13173C	132CCy	132683	1M31	ql s
ZAqonAum	y3-1	y407	y4yC	y707	yCC6	1M67	ql s
ZAqonAum	y1-1	2217	1y84	2333	2367	6M03	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-17	Dns&umne&Name :	P8
5 lAen&pamI le D :	c46N1	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 16:46:27	t a&aUAe Name :	3C0c. FUM0

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
c lumAnAum	27-2	4C1126	446003	4C0607	4C3064	3M62	ql s
c n&Amony	121-1	10802	14Ch1	14480	14032	2M87	ql s
c rsenAq	7C-2	18C7	178C	1h00	18Ch	0M18	ql s
BarAum	10C-1	237874	236782	238313	237CCC	3M02	ql s
BarAum	107-1	0C781C	0617h3	0C6144	0C8C80	3M61	ql s
BerylIAum	h-1	1044	10h7	1411	1084	2M08	ql s
BAsmu&E	23h-1	C7117C6	C7367h2	C7h3084	C706011	3M62	ql s
BAsmu&E	23h-2	2h4261C	2h27382	2h4h363	2h0hC86	3M08	ql s
BromAne	81-1	7732	7h11	7744	7786	1M42	ql s
5 aCmAum	138-1	038	271	27C	28C	7M22	ql s
5 aCmAum	136-1	4440	08C1	4376	4120	7M2C	ql s
5 aCmAum	111-1	62C7	6311	6244	6171	2M2C	ql s
5 alqAum	40-1	12C672	126C13	126736	1262h6	3M40	ql s
5 alqAum	44-1	2107h38	2168043	2226h64	2177707	2M38	ql s
5 arbon	12-1	11Ch86h2	11hC3440	1223Ch43	11h180Ch	2M06	ql s
5 arbon	12-2	14C003	14C4hh	148702	146C23	1M01	ql s
5 ElorAne	0C-1	2016146h	26422778	2872C141	2613012h	13M71	ql s
5 ElorAne	0C-2	212388	216h00	2211h6	21670h	2M13	ql s
5 EromAum	C2-2	10h74C	142142	1404h4	1417h4	1M04	ql s
5 obal&	Ch-2	C3h68	C1101	C2Chh	C1C66	1M74	ql s
5 ol I er	60-2	24611C	244616	2C8003	24h687	0M31	ql s
t ysI rosAum	1C6-1	18310	16232	18308	17417	6M34	ql s
t ysI rosAum	1C6-2	8140	77hh	8322	7h88	2M18	ql s
FrbAum	164-1	16006	1C70C	1C2Ch	1C776	0M42	ql s
FrbAum	164-2	66CC	6708	676C	6723	3M8C	ql s
GaColAnAum	163-1	16163	168C0	16C61	16C24	2M13	ql s
GaColAnAum	163-2	8Ch6	7h86	8040	8038	0M0h	ql s
HolmAum	16C-1	88C7377	86232h3	8C628h7	8683388	1M83	ql s
HolmAum	16C-2	0868177	0h12C27	087822C	088603h	3M63	ql s
DnOAum	11C-1	6C64C41	6C40673	6C6C3h2	6CC7768	3M1h	ql s
DnOAum	11C-2	h12607	h387C6	h222C7	h14CC3	3M76	ql s
Don	C4-2	2811036	27668C0	270h316	27720h1	1M02	ql s
Don	C6-2	486C64h0	4h066716	4h1h7084	4h370C01	3M76	ql s
Don	C7-2	1180432	1180086	117714C	1181011	3M01	ql s
Kryl &on	80-1	002	036	004	024	4M7h	ql s
LeaO	236-1	13006CC	1342488	1344683	134327C	3M06	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-17	Dns&umne&Name :	P8
5 IAen&pamI le D :	c46N1	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 16:46:27	t a&aUAe Name :	3C0c. FUM0

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
LeaO	237-1	86271C	870h47	87C814	87382C	3M31	ql s
LeaO	238-1	4206243	4276130	4018460	4276h06	3M16	ql s
LA&EAum	6-1	273663C	2627h7h	26072h6	26C72h0	1M02	ql s
9 agnesAum	24-2	4C8h34	4CC066	4840h0	466221	0M43	ql s
9 anganese	CC-2	7h6080	7h0042	83C7h8	7h8C38	3M31	ql s
9 olybOenum	h4-1	7811	7786	7hh4	7864	1M4C	ql s
9 olybOenum	hC-1	7413	7027	741h	708C	3M0h	ql s
9 olybOenum	h6-1	8730	8428	8ChC	8C7C	1M02	ql s
9 olybOenum	h7-1	4017	41Ch	4284	42C4	1M16	ql s
9 olybOenum	h8-1	12364	11822	11410	11766	2M7h	ql s
NeoOymAum	1C3-1	26C70	26h14	26410	26600	3M16	ql s
NeoOymAum	1C3-2	8436	8276	8146	8276	1M07	ql s
NAqkel	63-2	1822C	17hh1	18C86	18267	1M04	ql s
PEosI Eorus	01-2	0h76	0842	4117	0h78	0M46	ql s
Po&assAum	0h-2	h1C4h	h1121	1311C7	h463h	6M33	ql s
. EoOAum	130-1	6707180	6Ch7262	6C81772	660870h	1M2h	ql s
. EoOAum	130-2	03hh32h	032h603	0332h34	03408C4	1M60	ql s
pqanOAum	4C-1	442061C	4068486	44406C6	4411h1h	3M38	ql s
pqanOAum	4C-2	10h463	10h628	14171h	14326h	3M13	ql s
pelenAum	82-1	6h	71	63	67	8M36	ql s
pelenAum	77-2	17	03	03	26	03M11	ql s
pelenAum	78-2	42	47	C8	4h	16M71	ql s
pAAqon	28-1	134h41CC	13C10C67	1344h108	1348C623	3M02	ql s
pAver	137-1	C431	C384	4h3h	C102	4M36	ql s
pAver	13h-1	C126	C2h0	C140	C187	1M77	ql s
poOAum	20-2	282CCh	281043	2h4681	2861h0	2M08	ql s
p&ona&um	86-1	h3116	h3h71	h1C67	h388C	3M43	ql s
p&ona&um	88-1	77h223	78C1CC	772h17	77h3h7	3M7h	ql s
pulfur	04-1	46C116	46131h	464263	46046C	3M47	ql s
i erbAum	1Ch-1	888h37h	8781460	886C77h	884C443	3M64	ql s
i erbAum	1Ch-2	0807316	07h806C	086Ch22	0800768	3M38	ql s
i EallAum	230-1	112C	1142	13h2	1123	2M27	ql s
i EallAum	23C-1	26C3	28Ch	28h2	2833	4M68	ql s
i An	118-1	C1401	C2727	C0246	C2468	1M78	ql s
i A&anAum	47-1	27h6Ch	28018C	280200	282326	3M70	ql s
RranAum	208-1	06773	064hC	07464	06h13	1M0C	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-17	Dns&umne&Name :	P8
5 lAn&pamI le D :	c46N1	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 16:46:27	t a&aUAe Name :	3C0c. FUM0

Parame&er	9 ass	5 Pp1	5 Pp2	5 Pp0	5 Pp9 ean	5 Pp. pt	RnA&s
VanaOAum	C1-2	61346	63CC1	627h8	6146C	1M12	ql s
Y&erbAum	172-1	C318	C231	C068	C1h6	0M07	ql s
Y&erbAum	172-2	28hC	2820	2811	2840	1M0h	ql s
Y&erbAum	176-1	4CCh	4C04	42h0	4462	0M03	ql s
Y&erbAum	176-2	1170h	1170h	12467	11h82	0M01	ql s
Y&&Aum	8h-1	124C0812	12027107	120C37CC	1207720C	3M04	ql s
Y&&Aum	8h-2	1244466	120C441	124348C	1243101	3M06	ql s
ZAnq	66-2	10C6C3	106763	10767C	1066hC	3M74	ql s
ZAqonAum	h3-1	h87h	13034	h887	13320	2M40	ql s
ZAqonAum	h1-1	227C	22C3	2204	22C0	3M10	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	St pIl iCl:J	wI P8I N
LI r :DI e t Nd:&T:J	S0463-17	&FIlbe . pi:mI e p:J	u7
9 Nd. i:DI e t Nd:&T:J	d46m2	TdNiqC. :M OCl:J	1
TI ip:A:cqe p:dOobdqpn:J	2320-3 -14:16J4aJ2s	TI il MdNd:mI e p:J	3s4dFUMRn

ul II e pipl	y I PP	9uD1	9uD2	9uD0	9uDy pl .	9uDFDT	5 . qP
dNe q dpe	2 -2	00 67s	0003a4	02732s	002a0s	1R4s	Cl P
d. iqe C. h	121-1	a162	7s76	7 7	7742	0R01	Cl P
dIPp. qO	s-2	130	1306	1314	132a	1R26	Cl P
BI dpe	10s-1	137 23	13 224	137777	1372	3R7s	Cl P
BI dpe	10 -1	17a70	17 6s6	176 0a	1773	3R7s	Cl P
BplhNdpe	a-1	73s	71a	701	717	1R63	Cl P
BqPe biE	23a-1	sa6660	sa2746	s7607a1	sa1a66s	3R77	Cl P
BqPe biE	23a-2	2s 1a7a	030a340	2as1436	27s4146	7R3	Cl P
BICe q p	71-1	s6s1	s726	s 13	s 2a	1R36	Cl P
9I ne dpe	137-1	2 a	277	207	267	aR3a	Cl P
9I ne dpe	136-1	4126	0 3a	0 04	07s6	6R36	Cl P
9I ne dpe	111-1	67a	61 s	6s11	6s27	sR34	Cl P
9I NDdpe	40-1	40s61	401s1	404 0	400as	3R33	Cl P
9I NDdpe	44-1	0a23	43a 6	0a443	0a7 4	3R10	Cl P
9I Ir C.	12-1	4a33107	4a70a07	4a420ss	4a42144	3R7s	Cl P
9I Ir C.	12-2	sa a7	s 0s4	s 0a	s72a	2R2s	Cl P
9 ENCIq p	0s-1	2210746	261120a1	2 73s0a6	2s0s237s	11R4	Cl P
9 ENCIq p	0s-2	236saa	212s32	21111s	2133 2	1R4	Cl P
9 EICe dpe	s2-2	103111	12a0ss	12 s76	12a317	1R33	Cl P
9 Cr I Nl	sa-2	1 0a1	1 11	1 0s4	1 47s	1R12	Cl P
9 Ct pI	60-2	20sa6	206407	20s72a	2063 7	3R14	Cl P
ThPt ICPdpe	1s6-1	137ss	13407	13a46	13 46	2R32	Cl P
ThPt ICPdpe	1s6-2	4s71	47s1	44s4	462a	4R07	Cl P
UIr dpe	164-1	a034	a6 a	7a30	a2as	4R1	Cl P
UIr dpe	164-2	07s	074	0 1	073	2R3s	Cl P
GI nCNq dpe	163-1	as34	a2 a	a230	a02a	1R6	Cl P
GI nCNq dpe	163-2	4611	4 37	4601	46s3	1R13	Cl P
HCNe dpe	16s-1	7 72301	7736 a0	7sa0021	7 2 071	1R04	Cl P
HCNe dpe	16s-2	04174a0	07aaa47	07aas20	0 0a021	R40	Cl P
&ndpe	11s-1	66773s2	6600367	6s1s430	66121 4	1R00	Cl P
&ndpe	11s-2	a 173	a031	a10a3	773421	7R24	Cl P
&C.	s4-2	7 263	7sa001	7s6a17	762as2	3Ra7	Cl P
&C.	s6-2	16034s02	162a2733	163s07a	1621 3	3R7	Cl P
&C.	s -2	076727	07s111	071a 7	07460a	3R64	Cl P
KIht iC.	70-1	003	031	032	011	sR22	Cl P
LpI n	236-1	14s3247	1s132s	14a6023	147s637	2R11	Cl P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	St pII iCI:J	wI P8I N
LI r :DI e t Np:&T:J	S0463-17	& FIIbe . pi:mI e p:J	u7
9 Np. i:DI e t Np:&T:J	d46m2	TdpiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdpn:J	2320-3 -14:16J4aJ2s	TI il MdpN:mI e p:J	3s4dF UMRn

ul II e pipI	y I PP	9uD1	9uD2	9uD0	9uDy pI .	9uDF DT	5 . qP
LpI n	23 -1	1210061	1200 4	122723s	122s114	3R76	OI P
LpI n	237-1	632a061	633 66	6112404	634a721	3Ra1	OI P
LqiEdpe	6-1	26 6212	2 136as	26a 7	26a47as	3R6s	OI P
y I g. pPdpe	24-2	2 210	2 4362	2 3760	2 4346	1R16	OI P
y I . gI . pPp	ss-2	174 1	171672	17211s	172707	3Ra3	OI P
y CNr np. be	a4-1	006	071	0642	063a	6R2a	OI P
y CNr np. be	as-1	24sa	26a2	2a42	26a7	7Ra6	OI P
y CNr np. be	a6-1	01sa	03 s	041	021	sR34	OI P
y CNr np. be	a -1	1s00	1 s7	1637	1600	R31	OI P
y CNr np. be	a7-1	433a	406	42sa	4212	4R06	OI P
mpOnhe dpe	1s3-1	160a	1sa60	1s630	1sa77	2R4a	OI P
mpOnhe dpe	1s3-2	s207	s147	4774	s3a3	0R61	OI P
mqOkpN	63-2	121sa	1212a	12s16	12267	1R6	OI P
uECPt ECIbP	01-2	2 33	2s s	24a2	2s7a	4R3s	OI P
uOI PPdpe	0a-2	s1ssa	s14 6	47371	s30 2	0Ra4	OI P
FEOndpe	130-1	6 40 07	67004sa	6603 4	6 0saa3	1Rs1	OI P
FEOndpe	130-2	2600 7a	03a6a2a	03372	2a12aa7	7R44	OI P
DOI . ndpe	4s-1	4s733 0	4s6 62s	44s 0a6	4s0s301	1R4a	OI P
DOI . ndpe	4s-2	117643	140421	14112s	1040as	13R1a	OI P
DpNp. dpe	72-1	10	1s	s1	26	72R63	OI P
DpNp. dpe	-2	23	43	2	2a	0sR2s	OI P
DpNp. dpe	7-2	20	43	01	01	2 R14	OI P
DqNOC.	27-1	6a3 73	34 10s	3s21a7	3320 1	1R1	OI P
DqNpI	13 -1	61	7330	67a4	ss2	R2	OI P
DqNpI	13a-1	01a	671a	132	373	0Rs4	OI P
DOndpe	20-2	6 236	66a12	6 41	6 276	3R62	OI P
DiIC. idpe	76-1	06447	0 3s7	07773	0 462	0R07	OI P
DiIC. idpe	77-1	0233a4	014a0s	02263a	01a210	1R20	OI P
DbNbI	04-1	06as44	0 11a0	067 34	06a714	3R04	OI P
cpIr dpe	1sa-1	7a 1a4s	7a64733	a23s03a	a34 0s1	1Rs1	OI P
cpIr dpe	1sa-2	02160 7	0761020	0 076s6	063s4s2	aRs3	OI P
cEI NNpe	230-1	700	700	71	727	1R16	OI P
cEI NNpe	23s-1	1774	2374	1 42	1a30	aR32	OI P
cq	117-1	07sss	07a6s	0777a	07730	3Rs6	OI P
cqI . dpe	4 -1	1a3s14	1a122a	1a0107	1a162	3R1	OI P
5II . dpe	207-1	1a737	1a21s	233 s	1a6aa	2R20	OI P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	St pII iCI:J	wI P8I N
LI r :DI e t Nb:&T :J	S0463-17	&FIIbe . pi:mI e p:J	u7
9 Nb. i:DI e t Nb:&T :J	d46m2	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdpn:J	2320-3 -14:16J4aJ2s	TI il MdbN:mI e p:J	3s4dFUMRn

ul II e pipl	y I PP	9uD1	9uD2	9uD0	9uDy pl .	9uDFDT	5 . qP
VI . I ndpe	s1-2	43216	433a0	0a360	0a a1	1Rsa	OI P
YiipIr dpe	1 2-1	2as3	01a2	2as3	0301	4R31	OI P
YiipIr dpe	1 2-2	1s33	144s	160a	1s27	6R36	OI P
YiipIr dpe	1 6-1	2 3a	27a2	2742	2714	0R0	OI P
YiipIr dpe	1 6-2	1316s	11s70	11s70	11111	R0	OI P
YiiIdpe	7a-1	126a14ss	12262a	12070277	1244sa3	1R7	OI P
YiiIdpe	7a-2	1360s3s	124a33a	120s224	1172s a	7R4	OI P
ZqO	66-2	4064	s 31	s1a7	s377	3Ra3	OI P
ZqOC. dpe	a3-1	ss67	47a0	s43a	s2a3	6R67	OI P
ZqOC. dpe	a1-1	a37	1242	1370	13 7	1sR4	OI P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	St plwiCI:J	swl Pw8
Lwr :Dwe t 8p:&T:J	S0463-17	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T:J	d46ha	T8piqC. :MwOCI:J	1
Twip:A:cqe p:dOobdpn:J	2320-3 -14:16Ja2J2	TwiwMt8p:mwe p:J	3aadF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND0	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2 -2	42336u	42a7a1	422036	422 a	3R3	CI
d. iqe C. E	121-1	a2	a2	u330	6u6	0Ra	CI
dIl p. qO	a-2	132a	1342	1361	1340	1R0	CI
Bwldpe	10a-1	114 32	112420	110043	1104uu	1R31	CI
Bwldpe	10 -1	17 a4u	17a7a7	233364	17 ua	1R3a	CI
BplE8dpe	7-1	u11	u47	u66	u42	0R04	CI
Bdqe biG	237-1	a706303	a ua43	a 7 72u	au0 477	1R4	CI
Bdqe biG	237-2	27a60 0	277 4a2	013u7 7	0323704	2R61	CI
BICe q p	u1-1	a11u	a1a1	a226	a16a	1R3	CI
9 wne dpe	13u-1	221	16	234	17	14R3	CI
9 wne dpe	136-1	0731	43a1	0472	0u1a	Rau	CI
9 wne dpe	111-1	aa70	a611	a1u1	a462	4R4a	CI
9 w8Cdpe	40-1	43343	43a4a	43666	4341	3Ru2	CI
9 w8Cdpe	44-1	6u aa3	6u7477	671244	6u7401	3R2	CI
9 wlr C.	12-1	421102u	4037	4013202	42 112	1R00	CI
9 wlr C.	12-2	a3uu1	a3434	a3 60	a36u0	3R47	CI
9 G8Clq p	0a-1	21ua a40	2a0aa112	2 1 3141	24 7426a	13Ru7	CI
9 G8Clq p	0a-2	17u347	23a 77	2126a2	23aa33	0Ra6	CI
9 GICe dpe	a2-2	127a11	103 62	101 23	103664	3Rua	CI
9 Cr w8	a7-2	2a2u7	2a u4	2a037	2a461	1R13	CI
9 Ct t pl	60-2	223a0	221 32	217u11	2236u0	3R40	CI
TEl t ICl dpe	1a6-1	14124	144u0	1043	1433a	0R71	CI
TEl t ICl dpe	1a6-2	621a	63au	63uu	6123	1R06	CI
UIr dpe	164-1	122 0	120 0	11 64	12106	2R67	CI
UIr dpe	164-2	a111	a3 1	a201	a10u	1R62	CI
HwnC8q dpe	163-1	12643	1277u	127a	12u6a	1Ra2	CI
HwnC8q dpe	163-2	643a	6a2u	60 2	640a	1R2u	CI
KC8e dpe	16a-1	u7 4 4	uu222 6	u6aa4 3	uu1 a3	1Ru1	CI
KC8e dpe	16a-2	0724434	070u232	436au63	07 61aa	1R76	CI
& ndpe	11a-1	66uu0 7	6 a a4a	66u1236	6 37340	3R60	CI
& ndpe	11a-2	72760a	74126a	70u110	70600	3R64	CI
&C.	a4-2	14670u4	146 43	147 110	14 76u	1R12	CI
&C.	a6-2	2a 3 703	2a777 46	2a6u4700	2a 7 a06	3R6u	CI
&C.	a -2	6143u6	6242a0	617361	617100	3Ru2	CI
hIEt iC.	u0-1	2ua	023	2 3	272	uRu3	CI
Lpwn	236-1	7au327	7667u1	7a2u31	7a72 1	3Ra	CI

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pl:J	LB126466	St plwiCl:J	swl Pw8
Lwr :Dwe t 8p:&T:J	S0463-17	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T:J	d46ha	Tqbiq C. :MwOlCl:J	1
Twip:A:cqe p:dQobdpn:J	2320-3 -14:16Ja2J2	TwiwMqb:mwe p:J	3aadFUMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND0	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	23 -1	u34ua1	u362a2	u3a710	u3a6 2	3R37	Ol l
Lpwn	23u-1	072202u	074 aa1	072 631	0702470	3R04	Ol l
LqiGdpe	6-1	2 3a124	2666u a	26602ua	26 u42u	3Rn	Ol l
y wg. pl dpe	24-2	402 7	4021u7	4017 7	402016	3R13	Ol l
y w. gw. pl p	aa-2	172177	174603	170760	170a7	3R6a	Ol l
y C8Er np. be	74-1	0u6	4226	4104	43 6	4Ra	Ol l
y C8Er np. be	7a-1	27a7	2 33	261	2 a7	6R46	Ol l
y C8Er np. be	76-1	04 6	00u4	0a72	04u4	0R33	Ol l
y C8Er np. be	7 -1	1 a	14a3	1600	1623	13R36	Ol l
y C8Er np. be	7u-1	0u26	42a7	0ua1	07 u	6R12	Ol l
mpOnEe dpe	1a3-1	21a34	21244	23222	23773	0R20	Ol l
mpOnEe dpe	1a3-2	6a72	646u	6aua	6a4u	1R36	Ol l
mqOkp8	63-2	147au	1a17a	1a31a	1a3a6	3Rn2	Ol l
NGOl t GOlbl	01-2	2a04	2072	22a3	2072	aR72	Ol l
NOiwl l dpe	07-2	6aa72	661ua	6 433	66072	1R07	Ol l
F GOndpe	130-1	6 u776u	6 u u27	64 64a7	66u4 a2	2R 3	Ol l
F GOndpe	130-2	0234466	01 730a	010 7 0	01 0u2a	1R36	Ol l
DOw. ndpe	4a-1	44033 1	4a641 2	446 247	44u 164	1Ra4	Ol l
DOw. ndpe	4a-2	143u61	142074	141a73	14161a	3Ra4	Ol l
Dp8p. dpe	u2-1	67	0	44	0u	u R2	Ol l
Dp8p. dpe	-2	13	1	40	20	aRau	Ol l
Dp8p. dpe	u-2	0a	44	02	0	16Rnu	Ol l
DqqOC.	2u-1	u 77 37	uu1u230	u 6 14a	u 7a317	3R27	Ol l
Dq8vpl	13 -1	a104	a170	a031	a237	1R62	Ol l
Dq8vpl	137-1	a3u4	a231	a304	a13	1R6u	Ol l
DOndpe	20-2	10au	26u2	3u4	1627	1R02	Ol l
DilC. idpe	u6-1	03u31	037a2	0112	03763	3Ra0	Ol l
DilC. idpe	uu-1	26a 47	266u27	26427	26a62a	3R4u	Ol l
Db8bl	04-1	007 3	041263	0062 7	0073u2	3R a	Ol l
cplr dpe	1a7-1	73110u0	710623	uuu1 0a	7337 a	1R41	Ol l
cplr dpe	1a7-2	0 u716u	0u7a 6	0u6 406	0ua3 70	1R40	Ol l
cGwq8pe	230-1	742	u6	1300	74	uRn1	Ol l
cGwq8pe	23a-1	2137	20 a	23u4	21u7	R07	Ol l
cq	11u-1	66aa4	66340	66a76	6607u	3R46	Ol l
cqiw. dpe	4 -1	0311a6	03a 62	036u03	034au0	3R77	Ol l
5 lw. dpe	20u-1	20 14	22u10	203u3	20232	2R33	Ol l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pl:J	LB126466	St plwiCl:J	swl Pw8
Lwr :Dwe t 8p:&T :J	S0463-17	&l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	d46ha	Tqbiq C. :MwOCl:J	1
Twip:A:cqe p:dOobqpn:J	2320-3 -14:16Ja2J2	TwiwMqb:mwe p:J	3aadFUMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND0	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wnqpe	a1-2	40uu1	4003a	427 u	400uu	1R3a	Qcl
Yiiplr qpe	1 2-1	0a04	0404	0772	06a0	uR1a	Qcl
Yiiplr qpe	1 2-2	1 2u	1u1	171	1u21	aR17	Qcl
Yiiplr qpe	1 6-1	0a04	0604	0231	04a6	6Ra	Qcl
Yiiplr qpe	1 6-2	11600	11216	12004	11 2u	4Ru2	Qcl
Yiilqpe	u7-1	1226 au0	12a66607	122u47a1	120 03a	1R06	Qcl
Yiilqpe	u7-2	124u113	12aa0a2	12aa4au	12a27 0	3R04	Qcl
Zq O	66-2	6 u1u	6u 70	6ua6a	6u072	3Ra	Qcl
ZqOC. qpe	73-1	144	474	6a2	403	0Ra3	Qcl
ZqOC. qpe	71-1	1400	142a	1au0	14u1	6R32	Qcl

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-23	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	q46y J&	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2320-37-14 16:JJ:26	&sTsUdP u sb r:	3J6q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	27-2	424NhJ	427630	427473	4266J6	3M06	dDw
qCTb nCE	121-1	N230	N361	7N61	N341	2M14	dDw
qpwr Ccd	7J-2	1114	1321	1367	1367	4M06	dDw
Bspcmb	10J-1	11Nh14	114776	1144h1	116363	2M10	dDw
Bspcmb	107-1	2344N1	23242N	23012h	230046	3M1	dDw
Br pEPmb	h-1	Nh2	Nh7	N74	NNN	1M41	dDw
Bcwb mTG	23h-1	J6431N4	JN3h47h	J7J1h31	J700NJ4	1M3	dDw
Bcwb mTG	23h-2	0160Jhh	2h40044	03h3N3J	036Jh16	0M06	dDw
Bpmb oCr	N1-1	J0Jh	J13h	J11N	J1h6	2M10	dDw
5 sob cmb	13N-1	246	242	23N	202	NM6	dDw
5 sob cmb	136-1	0N04	0J3h	07N4	073h	4M72	dDw
5 sob cmb	111-1	J6N7	J02h	J6hJ	JJ73	0M7J	dDw
5 sPlcmb	40-1	41431	43N7J	41074	41217	3M72	dDw
5 sPlcmb	44-1	7142Jh	73N670	7367J7	73hNh6	3MJ	dDw
5 spenC	12-1	414J464	4067h4J	4061226	42h1J4J	2M1J	dDw
5 spenC	12-2	J3N03	J1370	J1J37	J1107	3M07	dDw
5 GPmpcCr	0J-1	222h7606	2J77N0J1	276244h7	2J2004hJ	13M72	dDw
5 GPmpcCr	0J-2	231N33	23J747	23h7hJ	23J7N1	1M14	dDw
5 Gpmb cmb	J2-2	101114	12h400	102720	1013h3	1M26	dDw
5 nesFT	Jh-2	2JNh4	2J460	26164	2JN43	1M07	dDw
5 nDDr p	60-2	22642N	22h712	226hJ6	2276hh	3M77	dDw
&EwDpnwcmb	1J6-1	14hN4	141JN	14NJ3	14664	0M32	dDw
&EwDpnwcmb	1J6-2	604J	66J2	676N	6JNN	0M02	dDw
Fpecmb	164-1	11h36	1036J	1244N	12470	4M0J	dDw
Fpecmb	164-2	J001	J171	J11N	J237	2M10	dDw
HsonPCcmb	163-1	1064h	10Jhh	1011J	104J4	2M1h	dDw
HsonPCcmb	163-2	671J	6NJJ	6722	6764	1M17	dDw
KnPb cmb	16J-1	N4NJ43h	N711h34	N2NhN2J	N4hJ710	2M4h	dDw
KnPb cmb	16J-2	404J00J	0N14002	0h276JJ	432h137	6M14	dDw
tCocmb	11J-1	6J0Jh72	64621N3	6426N1h	6474hh3	3MN6	dDw
tCocmb	11J-2	h77617	h3743J	h110Nh	h02107	4M20	dDw
tpnC	J4-2	1461h22	140326h	14J6h0N	144h713	1M17	dDw
tpnC	J6-2	2Jh07364	267JN6N4	263J4h14	262J3221	1M3h	dDw
tpnC	J7-2	61J161	601362	62J736	620h76	1M03	dDw
ypEDTnC	N0-1	02J	271	006	011	11M1N	dDw
Lr so	236-1	hN20h4	h7N171	h7NNh4	h7hN1h	3M20	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-23	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	q46y J&	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2320-37-14 16:JJ:26	&sTsUdP usb r:	3J6q. FUM

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l 0	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	237-1	N211N6	N17764	N13h72	N16641	3M04	dDw
Lr so	23N-1	43203N6	431NN3N	4330660	431J1N6	3M2J	dDw
LdTGmb	6-1	2JJ20J7	262hN1J	2Jh6JN4	2Jh2h1h	1M13	dDw
9 sgOr wcmb	24-2	443263	402N6J	42h147	4043h3	1M03	dDw
9 sOgsOr wr	JJ-2	1h0420	1h0h33	1h66N4	1h466h	3M13	dDw
9 nPEeor Cmb	h4-1	433h	4431	4JJh	4020	6MJJ	dDw
9 nPEeor Cmb	hJ-1	2N2J	2N7J	2N3h	2N06	1M22	dDw
9 nPEeor Cmb	h6-1	0076	003h	0J26	0430	0M26	dDw
9 nPEeor Cmb	h7-1	1N33	16h2	1717	1706	0M27	dDw
9 nPEeor Cmb	hN-1	4J31	41Jh	0h76	4212	6M00	dDw
u r noEb cmb	1J3-1	20J4N	20227	240N2	2071h	2M1	dDw
u r noEb cmb	1J3-2	704J	7Jh6	7662	7J04	2M22	dDw
u cdkr P	63-2	14hNJ	1J3JN	14h6N	1J334	3M02	dDw
8 GhwDGhpmw	01-2	2J33	2J33	2067	24J6	0M14	dDw
8 nTswwcmb	0h-2	663NJ	66232	66277	661NN	3M1J	dDw
. Ghocmb	130-1	6461401	6J141N2	60N7701	64J444N	3M1N	dDw
. Ghocmb	130-2	0207N7h	037hh6h	0110627	0140N2J	2M6J	dDw
l dsCocmb	4J-1	42J367h	40h6177	426hh36	403JJN7	1MN4	dDw
l dsCocmb	4J-2	1J23h1	10J074	14366N	142711	JM1h	dDw
l r P Ccmb	N2-1	20	J2	J	27	h3M3N	dDw
l r P Ccmb	77-2	43	40	00	0h	10M3h	dDw
l r P Ccmb	7N-2	01	03	03	03	1M13	dDw
l dPdnC	2N-1	NN74hJ4	h33N237	h341021	Nh74N27	3M1N	dDw
l dPr p	137-1	4NN4	J3J1	JJ0J	J1J7	6MJJ	dDw
l dPr p	13h-1	4h40	4hJ1	J4NJ	J126	6M36	dDw
l nocmb	20-2	73J07	73J46	6hNN4	73022	3M4	dDw
l TpnCTcmb	N6-1	016N7	014N6	02h36	02326	2M43	dDw
l TpnCTcmb	NN-1	27J144	272136	274136	2707NJ	3M6	dDw
l mPmp	04-1	007044	006J11	003h37	004h21	1M3J	dDw
Ar pecmb	1Jh-1	NJ7N6J1	NNJ340h	N737N27	N712036	1M6	dDw
Ar pecmb	1Jh-2	43767N4	0732hhN	0Nh6400	0Nh2372	4MN3	dDw
AGsPBmb	230-1	NN0	h17	NJN	NN6	0M03	dDw
AGsPBmb	23J-1	1hJh	1hh2	213h	2323	0M13	dDw
AdC	11N-1	6JJ74	64h3J	6J247	6J242	3M1	dDw
AdSCcmb	47-1	01N162	01226h	034N46	0117Jh	2M14	dDw
RpsCcmb	20N-1	24733	20403	22712	20614	4M26	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-23	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	q46y J&	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2320-37-14 16:JJ:26	&sTsUdP usb r:	3J6q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l 0	58l 9 r sC	58l . l &	RCdTw
VsCsoomb	J1-2	44171	4037N	40h37	4071h	1N03	dDw
YTTr peomb	172-1	0h17	423h	4117	43N1	0N06	dDw
YTTr peomb	172-2	2233	2317	23hJ	2134	4N07	dDw
YTTr peomb	176-1	2hJ3	0404	027J	0223	7N0J	dDw
YTTr peomb	176-2	12N1N	11N00	11h00	121hJ	4M44	dDw
YTTpomb	Nh-1	122332N1	12374J11	11hJ2040	1237J712	1N30	dDw
YTTpomb	Nh-2	1030J60	11hJ243	1241NN0	1246NhJ	4N06	dDw
ZdCd	66-2	6hhNJ	73013	6h377	6h7h1	3M12	dDw
ZqpdnComb	h3-1	7744	7744	7013	7633	0N2h	dDw
ZqpdnComb	h1-1	167J	16J3	16J3	16JN	3NN7	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber SJ	LB126466	OIr Sw&SJ	swl Pw8
Lwe:pwbl &:D:J	O3465-10LX7	DR &Sm Rr &uwbr:J	Na
M&R&pwbl &:D:J	c4697L	t &m&R. wq&SJ	7
t w&:T:i &r:cqdm&S o:J	2523-5 -14:16J7aJ2a	t w&v. &:uwbr:J	57 cEF. Ud

NwSwbr &S	Hwl	MNp1	MNp2	MNp3	MNpHrwR	MNpEpt	CR&
c8mb &R&mb	2 -2	a3060	a4261	a44 5	a4233	5U35	qll
cR&b nRy	121-1	1633	1655	161	161	1U53	qll
cSr R&q	7-2	22	214	257	217	7U14	qll
BwS&mb	137-1	22165	221	22361	22233	5U75	qll
BwS&mb	13 -1	30755	304 7	30a50	30707	5U4	qll
Br Sy8&mb	0-1	1a5	25	250	100	aU1a	qll
B&Ab m8a	250-1	7 44255	76 5 32	7 7a 41	7 2477a	5Ua2	qll
B&Ab m8a	250-2	2a02a63	202a765	205773	205a0a	5U62	qll
BSmb &Rr	a1-1	4671	47a4	4403	47 6	1U4	qll
Mwob &mb	15a-1	1	63	7	60	0U16	qll
Mwob &mb	156-1	3 51	32a4	3442	34 6	6U57	qll
Mwob &mb	111-1	3101	2aa4	2a07	2005	7Ua3	qll
Mw&q&mb	43-1	a261	a143	a166	a105	5U	qll
Mw&q&mb	44-1	16 63	16 41	16a31	16 045	5U10	qll
MwSenR	12-1	3551217	2064610	2a06a72	2074220	1U0	qll
MwSenR	12-2	33a31	34416	34401	34246	1U56	qll
Mh8nS&Rr	37-1	15411422	15653330	1575475	15756422	5U01	qll
Mh8nS&Rr	37-2	5162	66360	6 440	6 003	2Ua	qll
MhSmb &mb	72-2	260 0	27004	27025	2620a	2U27	qll
Mnew&&	70-2	755a	400a	4aa4	4063	1U3a	qll
MnI Ir S	63-2	44517	44725	43 24	445a6	5U01	qll
t yl I Sn l &mb	176-1	2 55	2a42	2 6	2 5	2U76	qll
t yl I Sn l &mb	176-2	1133	12 5	1233	1212	7Ua4	qll
FSe&mb	164-1	2742	2334	2742	24 3	4Ua	qll
FSe&mb	164-2	154	152	045	1554	7U64	qll
Gwon8&R&mb	165-1	2750	2a02	2455	2655	0U04	qll
Gwon8&R&mb	165-2	13 3	132	131	1330	2U26	qll
Kn8b &mb	167-1	a22a6 5	a4 2565	a731316	a4156a2	1U01	qll
Kn8b &mb	167-2	3a71537	3a6442	3a42a72	3a72 1	5U2a	qll
DRo&mb	117-1	67371a5	66 2437	64a3102	6763652	1U40	qll
DRo&mb	117-2	050124	01554	0124a1	015771	5U10	qll
DSmR	74-2	2 5371	260100	260033	260a2	5U22	qll
DSmR	76-2	725 a	71 46	75000aa	7165a4	1U5	qll
DSmR	7 -2	1227 0	123605	121 65	1226 6	5U0	qll
9Syl &mR	a3-1	204	266	355	2a	6U26	qll
Lrwo	256-1	1a61 a	105 35	1a 44	1aa11a	1U27	qll

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber SJ	LB126466	OIr Sw&SJ	swl Pw8
Lwe:pwbl &:D:J	O3465-10LX7	DR &mbRr&uwbr:J	Na
M&R&pwbl &:D:J	c4697L	t &m&R. wq&SJ	7
t w&:T:i &r:cqdm&o:J	2523-5 -14:16J7aJ2a	t w&v. &:uwbr:J	57 cEF. Ub

NwSwbr&S	Hwl	MNp1	MNp2	MNp3	MNpHrwR	MNpEpt	CR&
Lrwo	25 -1	177a65	176513	177aa0	177021	5U57	qll
Lrwo	25a-1	36 1	37626	34a27	37 23	5U13	qll
L&nAnb	6-1	27 2737	27722 3	261a043	27a1271	1U32	qll
HwgRrlAnb	24-2	a4a14	a4a4	a6357	a7322	1U55	qll
HwRgwRrlr	77-2	3a251	3a531	3a5 1	3a151	5U23	qll
Hn&yeorRmb	04-1	033	055	02	a 7	aU4	qll
Hn&yeorRmb	07-1	77a	76	727	775	4U51	qll
Hn&yeorRmb	06-1	42	76	5a	6 2	13Ua2	qll
Hn&yeorRmb	0 -1	26	242	3 7	204	24U5	qll
Hn&yeorRmb	0a-1	a6	a27	1542	011	12U62	qll
urnoybAnb	175-1	4551	454	4534	452	5U65	qll
urnoybAnb	175-2	1203	1213	1253	123	3U00	qll
uAqkr8	65-2	31 4	3115	352	3154	2U3	qll
NhnlIhnSm	31-2	775	76	342	4a6	27U0	qll
Nn&wlAnb	30-2	22437	227a7	21aa4	22351	1U66	qll
EhnoAnb	153-1	67a403a	67334a0	633276	64a3667	2U56	qll
EhnoAnb	153-2	35a 232	352aa27	3544215	3573423	5U00	qll
pqwRoAnb	47-1	43a3223	42a0316	4307753	4376514	1U33	qll
pqwRoAnb	47-2	136727	13 455	136431	136 a7	5U30	qll
pr&RAnb	a2-1	-26	a	17	-1	-1 7 Ua4	qll
pr&RAnb	-2		5	3	3	155U57	qll
pr&RAnb	a-2	21	15	23	1a	3aUa0	qll
p&&qnR	2a-1	1073a32	1027071	1a04316	1024 55	1U77	qll
p&&rS	15 -1	15a3	125a	1502	112a	6U25	qll
p&&rS	150-1	1527	1527	027	002	7Ua2	qll
pnoAnb	23-2	27a0a	26727	26241	26221	1U25	qll
p&&nR&Anb	a6-1	64a7	6065	6103	6746	7U01	qll
p&&nR&Anb	aa-1	73307	72a34	74324	7371a	1U41	qll
pm&mS	34-1	2a 223	2a 151	20140a	2aa65	5Ua	qll
irSeAnb	170-1	a653425	a03 5 6	a0 44a3	aa3a326	2U31	qll
irSeAnb	170-2	3 30642	3 75650	3 a36 7	3 7 0 7	5U61	qll
ihw&Anb	253-1	327	427	46	456	1 U07	qll
ihw&Anb	257-1	027	033	06	042	2U34	qll
iAR	11a-1	1365	13745	14427	13a7	3U77	qll
i&wRAnb	4 -1	65165	7a674	7a6 1	70162	1U46	qll
CSwRAnb	23a-1	4771	451	4450	4326	6U30	qll

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber SJ	LB126466	OIr Sw&SJ	swl Pw8
Lwe:pwbl &:D :J	O3465-10LX7	DR &mbRr&uwbr:J	Na
M&R&pwbl &:D :J	c4697L	t &m&R. wq&SJ	7
t w&:T:i &br:cqdm&Sro:J	2523-5 -14:16J7aJ2a	t w&v. &:uwbr:J	57 cEF. Ub

NwSwbr&S	Hwl l	MNp1	MNp2	MNp3	MNpHrwR	MNpEpt	CR&
VwRwo&mb	71-2	a600	a673	a370	a7 5	2U17	ql l
Y&SeAmb	1 2-1	a 7	6a3	a75	a53	12U0a	ql l
Y&SeAmb	1 2-2	4a0	3a3	376	450	1 U10	ql l
Y&SeAmb	1 6-1	1742	1755	14 7	1756	2U24	ql l
Y&SeAmb	1 6-2	154	15a65	15774	15635	1U01	ql l
Y&&Amb	a0-1	11067352	11062 5	11a1242a	11013755	5U3	ql l
Y&&Amb	a0-2	1100225	11007 6	1222277	125 51	1U50	ql l
ZARq	66-2	13456	13510	13435	132a7	1U3	ql l
ZA&qnRAmb	05-1	16 7	1a1	1 1	1 36	4U10	ql l
ZA&qnRAmb	01-1	45a	2 7	355	32a	21U62	ql l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-21	tOwTpmb Or Tu sb r:	8N
9 R CTI sb DP t&:	q46h. l	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpr o:	2320-37-14 17:31:2J	&sTsMdP usb r:	3. NqF UMR

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l 0	9 8 l y r sC	9 8 l F l &	5 CdTw
qPmb cOcmb	27-2	42. 34N	42232J	41J0JJ	4221. J	3R67	dDw
qCTb nCE	121-1	11472J	11420.	11. 430	1147NJ	3R 1	dDw
qpwr Ccd	7. -2	2370	2306	2101	23N3	2R03	dDw
Bspcmb	10. -1	620. . 7	61N431	6223. 7	62100N	3R40	dDw
Bspcmb	107-1	1370443	136J161	1374646	137241.	3R27	dDw
Br pEPRmb	J-1	1730J	173N0	16J26	17316	3R47	dDw
Bcwb mTG	23J-1	6337. 64	6366764	. N00463	. J6J260	2R30	dDw
Bcwb mTG	23J-2	2JJ4. . 4	03. . . N3	2J7J701	033JJ. .	1R04	dDw
Bpmb cOr	N1-1	. N26	. 0. 1	. N31	. 663	4R70	dDw
9 sob cmb	13N-1	1160	11J6	13J2	11. 3	4R60	dDw
9 sob cmb	136-1	. . 40	4JN4	4JJ0	. 170	6R1J	dDw
9 sob cmb	111-1	234J4	23003	2317J	2300.	3R77	dDw
9 sPlcmb	40-1	402. 0	40J37	406J0	4061N	3R76	dDw
9 sPlcmb	44-1	74. 030	7. 1443	706JN4	744. 76	3R37	dDw
9 spenC	12-1	4204. J2	4027140	4030004	42NN0. 6	1R12	dDw
9 spenC	12-2	. 10J3	. 3J. 6	. 2444	. 1. J7	1R4N	dDw
9 GPmpcOr	0. -1	1N6J1063	20. 24. 4J	2. J6N10J	2272N316	16R2J	dDw
9 GPmpcOr	0. -2	233144	23N2. 7	211N43	236747	2R13	dDw
9 Gpmb cmb	. 2-2	1JJJ23	233140	1JN73N	1JJ. J1	3R0J	dDw
9 nesFT	. J-2	04J3. 3	00. JJJ	00J77J	04163J	1R37	dDw
9 nDDr p	60-2	07706.	072NJ1	072J4N	074431	3R6J	dDw
&EwDpnwcmb	1. 6-1	10274	10102	103JN	1016N	3R71	dDw
&EwDpnwcmb	1. 6-2	. 6N.	. 71N	. 7NN	. 703	3R12	dDw
Upecmb	164-1	11003	11447	13JJ6	112. N	2R3N	dDw
Upecmb	164-2	472N	4417	477N	4641	4R23	dDw
HsonRCcmb	163-1	12120	12214	117. .	12301	2R32	dDw
HsonRCcmb	163-2	613N	. J6.	. J3N	. JJ4	1R72	dDw
KnPb cmb	16. -1	N7. 7JJ2	N6N1N42	N733726	N710. 23	3R46	dDw
KnPb cmb	16. -2	0J0N2. N	434. J13	0J4. . 72	0J76. N3	1R 1	dDw
tCocmb	11. -1	6N12NN2	676232.	6673J64	674N620	1R37	dDw
tCocmb	11. -2	J1N0J0	J2662N	J16622	J23. 4N	3R N	dDw
tpnC	. 4-2	12200. 2	121N6J6	1216. 01	121J. 26	3R2J	dDw
tpnC	. 6-2	20440N62	22NN1. 1J	220044J6	22NN6626	2R42	dDw
tpnC	. 7-2	. . J47J	. 4N314	. 4. 660	. . 13. 2	1R04	dDw
hpEDTnC	N0-1	034	2J.	031	033	1R 3	dDw
Lr so	236-1	132N12.	1326N34	13. . 203	1306723	1R.	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-21	tOwTpmb Or Tu sb r:	8N
9 R CTI sb DP t&:	q46h. l	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpro:	2320-37-14 17:31:2J	&sTsMdP usb r:	3. NqF UMR

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l 0	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	237-1	N. . 414	N6J73.	N. 3J7N	N. N6JJ	1R14	dDw
Lr so	23N-1	4222416	427J103	4263N4N	42. 4101	3R6N	dDw
LdTGmb	6-1	26. 07J1	26NN443	2673613	2673J47	3R6.	dDw
y sgOr wcmb	24-2	0J. 646	0N2. NN	0N0. J7	0N7277	1RNN	dDw
y sOgsOr wr	. . -2	26J. 20	273NN0	26N4N1	26J62J	3R4.	dDw
y nPEeor Omb	J4-1	4631	627.	41J2	. 320	21R17	dDw
y nPEeor Omb	J. -1	22J2	24. 3	2042	2061	0R40	dDw
y nPEeor Omb	J6-1	02. J	00J2	0042	0001	2R32	dDw
y nPEeor Omb	J7-1	14. 3	1. 2.	14J2	14NJ	2R.2	dDw
y nPEeor Omb	JN-1	4131	4267	4317	412N	0R3N	dDw
u r noEb omb	1. 3-1	233. .	1J. 1.	231NJ	1JJ23	1R7J	dDw
u r noEb omb	1. 3-2	6072	6121	6101	623N	2R2N	dDw
u cdkr P	63-2	132062	131623	131667	131NN0	3R41	dDw
8 GhwDGhpmw	01-2	2. N4	2467	243J	24N6	0R.N	dDw
8 nTswwcmb	0J-2	6N7N2	67343	6. J. 2	672. N	2R12	dDw
F Ghocmb	130-1	6J11216	6N4N624	66N10N6	6N10742	1R74	dDw
F Ghocmb	130-2	01. 10J7	0163J1J	0340JN0	011N766	2R3N	dDw
I dsCocmb	4. -1	4. 30403	4641077	4404772	4. 26. 26	2R02	dDw
I dsCocmb	4. -2	142216	10J233	10J076	143264	1R21	dDw
I r P Ccmb	N2-1	2171	2117	2123	2106	1R42	dDw
I r P Ccmb	77-2	N0	117	N0	J4	23R0N	dDw
I r P Ccmb	7N-2	2. 4	2. 6	213	243	13RN0	dDw
I dRdnC	2N-1	J701NJ0	JNJ1313	133J7021	JJ36741	1RN.	dDw
I dPr p	137-1	67201	67474	66430	67306	3RN4	dDw
I dPr p	13J-1	6433J	6613J	6423J	6477.	1R7J	dDw
I nocmb	20-2	132. 70	JN7N.	JNJ63	133136	2R14	dDw
I TpnCTcmb	N6-1	01N23	00J67	02003	02736	0R40	dDw
I TpnCTcmb	NN-1	27N34.	2N32. 4	27. 212	277N07	3R31	dDw
I mPmp	04-1	00J1. 1	043630	00406J	00N341	3R16	dDw
Ar pecmb	1. J-1	J1. 716N	J34N772	NJ3J463	J30N467	1R07	dDw
Ar pecmb	1. J-2	0N2. 01N	0N146JN	07J2037	0N13774	3R44	dDw
AGsRcmb	230-1	. 0277	. 4101	. 072J	. 0712	3RN3	dDw
AGsRcmb	23. -1	12. 36J	12. 6. .	12N723	1264N1	1R.	dDw
AdC	11N-1	1267. J	12. . 70	12. 144	12. N26	3R66	dDw
AdSCcmb	47-1	2JNJN1	27J6. .	2N4J33	2N7N4.	0R47	dDw
5 psCcmb	20N-1	23NJ0	21J11	21606	214N3	2R4.	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	S Dr psTnp:	aswl sP
Lse l sb DP t&:	S0463-21	tOwTpmb Or Tu sb r:	8N
9 Rr CTI sb DP t&:	q46h. l	&dPmTcnC MsdTnp:	1
&sTi Adb r qdOmpro:	2320-37-14 17:31:2J	&sTsMdP usb r:	3. NqF UMRo

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l 0	9 8 l y r sC	9 8 l F l &	5 CdTw
VsCsoomb	. 1-2	170614	173736	172J62	172427	3RN	dDw
YTTr pe mb	172-1	0442	0JN4	0042	0. NJ	JR2	dDw
YTTr pe mb	172-2	1N0J	1N2N	1661	1776	. R1	dDw
YTTr pe mb	176-1	02. J	04J2	0776	0. 3J	7R0N	dDw
YTTr pe mb	176-2	11J2N	1232N	11761	11J36	1R10	dDw
YTTpomb	NJ-1	12. 110J0	12. 6NN40	12142NN1	12437736	1RN6	dDw
YTTpomb	NJ-2	120N27J	120J663	1243. 70	120J. 34	3R3J	dDw
ZdCd	66-2	13621.	137J34	13. 6N4	136631	1R3J	dDw
ZqpdnComb	J3-1	7477	NN. .	7N4.	N3. J	NRN	dDw
ZqpdnComb	J1-1	2N07	1704	16J2	23NN	01R12	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-22	Dns&umne&Name :	P8
9 IAn&pamI le D :	c46L4	t Au&on Maq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 17:34:02	t a&aMAe Name :	3C. c F UMRO

Parame&er	y ass	9 Pp1	9 Pp2	9 Pp0	9 Ppy ean	9 PpF pt	5 nA&s
c lumAnAum	27-2	277281	2771. 3	27C144	276C08	3R44	ql s
c n&Amonh	121-1	4C04	4431	C368	4668	7R06	ql s
c rsenAq	7C-2	10. 4	1431	1411	1432	3R61	ql s
BarAum	10C-1	8. 743	. 186.	. 2402	. 1047	1R0C	ql s
BarAum	107-1	1C03. C	1C. 361	1C. 208	1C7101	2R20	ql s
BerhllAum	. -1	C71	C. 1	62C	C. 6	4R06	ql s
BAsmu&E	23. -1	C81C443	C800. 4.	C708CC2	C7. C. 83	3R87	ql s
BAsmu&E	23. -2	01. 4060	2. 713. 7	2. 64. 47	034046.	4R2.	ql s
BromAne	81-1	4776	4840	C384	4. 31	0R01	ql s
9 aOmAum	138-1	12.	146	12C	100	8R27	ql s
9 aOmAum	136-1	4326	003.	0742	06. 2	. R78	ql s
9 aOmAum	111-1	41. 4	06C2	4324	0. C7	7R31	ql s
9 alqAum	40-1	. 0041	. 4136	. 4822	. 43. 3	3R7.	ql s
9 alqAum	44-1	16043. 7	16. 2070	16C3C7C	16C. 31C	1R81	ql s
9 arbon	12-1	02C3208	027. 0. .	02718C.	0267166	3R46	ql s
9 arbon	12-2	0. 128	08204	07643	08004	1R C	ql s
9 ElorAne	0C-1	21628637	2C43C38C	27C83861	24871C18	12R11	ql s
9 ElorAne	0C-2	234471	213. 1.	214. 32	2133. 7	2R01	ql s
9 EromAum	C2-2	C24. 6	C2C26	C1884	C2032	3R6.	ql s
9 obal&	C. -2	2C04.	2C17.	2C070	2C033	3R42	ql s
9 ol I er	60-2	10C016	104602	104726	1048. 1	3R27	ql s
t hsI rosAum	1C6-1	. . 7.	13260	13034	13182	1R74	ql s
t hsI rosAum	1C6-2	4281	4244	4184	4206	1R1C	ql s
UrbAum	164-1	8386	8C28	8. 23	8C11	4R 3	ql s
UrbAum	164-2	0877	0831	0814	0801	1R37	ql s
GaOolAnAum	163-1	. 62.	. C62	. 130	. 401	0R30	ql s
GaOolAnAum	163-2	48C1	4628	4808	4772	2R60	ql s
HolmAum	16C-1	8C2. . 34	84. . 481	8732878	8C77421	1R28	ql s
HolmAum	16C-2	4131. C0	08C2206	08. 4C06	0. 4. C7C	0R08	ql s
DnOAum	11C-1	6614803	6C0. 38.	6782C41	664C487	1R87	ql s
DnOAum	11C-2	. 763C0	. 207. 1	. 1736.	. 08. 71	0R44	ql s
Don	C4-2	CC17266	CC. 03. 4	C618818	CC760. 2	3R C	ql s
Don	C6-2	132CC4832	1316. 076.	1321C617C	132104. 1C	3R42	ql s
Don	C7-2	2C. 010C	261C241	2638108	263CC3C	3R40	ql s
Krhl &on	80-1	036	01.	016	014	2R11	ql s
LeaO	236-1	466161	47. 0. 3	481631	47C717	1R76	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-22	Dns&umne&Name :	P8
9 IAen&pamI le D :	c46L4	t Au&on Maq&or :	1
t a&e T i Ame cqduAeO :	2320-37-14 17:34:02	t a&aMAe Name :	3C. c F UMRO

Parame&er	y ass	9 Pp1	9 Pp2	9 Pp0	9 Ppy ean	9 PpF pt	5 nA&s
LeaO	237-1	087. . 7	0. 0731	0. 7436	0. 030C	1R21	ql s
LeaO	238-1	182C108	1842273	18C8028	1841. 12	3R.3	ql s
LA&EAum	6-1	2676C26	26. 6204	2621C13	26647C7	1R4C	ql s
y agnesAum	24-2	06CC. 6	0C. 1. 4	06144.	062383	3R.3	ql s
y anganese	CC-2	241470	242144	240686	242404	3R47	ql s
y olhbOenum	. 4-1	11714	114CC	1168.	1161.	1R20	ql s
y olhbOenum	. C-1	130C4	13046	13C71	13424	1R22	ql s
y olhbOenum	. 6-1	12347	12601	12781	12486	0R11	ql s
y olhbOenum	. 7-1	600C	60C2	6C0C	6437	1R70	ql s
y olhbOenum	. 8-1	16440	1681.	16027	16C03	1R06	ql s
NeoChmAum	1C3-1	14. 62	1C12.	14868	14. 86	3R38	ql s
NeoChmAum	1C3-2	4888	4811	4868	48CC	3R32	ql s
NAqkel	63-2	17431	17. 8C	18C66	17. 84	0R24	ql s
PEosI Eorus	01-2	C268	C040	CCC1	C087	2R70	ql s
Po&assAum	0. -2	4C. 02	46. 0C	4CC. 8	461CC	1RC1	ql s
F EoOAum	130-1	6C063. 3	606738.	60. 2712	6401. 64	1R42	ql s
F EoOAum	130-2	0276283	0376083	0118C83	01C7383	0R04	ql s
pqanOAum	4C-1	4C1304.	44CC3. 4	408C81.	44C3421	1R43	ql s
pqanOAum	4C-2	14. 7. 1	108. 37	10. 447	14271C	4R03	ql s
pelenAum	82-1	24	-C6	3	-11	-07. R16	ql s
pelenAum	77-2	23	20	17	23	16R6C	ql s
pelenAum	78-2	22	03	2.	27	16R14	ql s
pAAqon	28-1	. 846020	. 8C26C4	13322006	. . 37134	1R31	ql s
pAver	137-1	1138	833	. 33	. 06	16R81	ql s
pAver	13. -1	800	. 42	132C	. 00	13R03	ql s
poOAum	20-2	104222	101. 77	1046C2	100617	1R37	ql s
p&onA&um	86-1	27C6.	284CC	28. 01	28018	2R44	ql s
p&onA&um	88-1	243480	20883C	208336	20. 3. 8	3RC0	ql s
pulfur	04-1	41C. C0	416CC8	422343	418184	3R83	ql s
i erbAum	1C. -1	87088C2	88. 3. 2.	8. 6267.	88641C0	1R2.	ql s
i erbAum	1C. -2	43. 2101	077C71.	084C70.	0. 34C2.	4R26	ql s
i EallAum	230-1	080	4C3	442	42C	8RCC	ql s
i EallAum	23C-1	1317	1217	1238	1147	. R86	ql s
i A	118-1	23C66	23C00	2324.	2344.	3R8C	ql s
i A&anAum	47-1	216C0C	217C47	2160. 1	216824	3R2.	ql s
5 ranAum	208-1	18614	1. 143	18836	188C0	1R41	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-22	Dns&umne&Name :	P8
9 lAn&pamI le D :	c46L4	t Au&on Maq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 17:34:02	t a&aMAe Name :	3C. c F UMRO

Parame&er	y ass	9 Pp1	9 Pp2	9 Pp0	9 Ppy ean	9 PpF pt	5 nA&s
VanaOAum	C1-2	28412	27466	27OC3	2783.	1R38	ql s
Y&erbAum	172-1	277C	2C42	2. 2C	2748	7R30	ql s
Y&erbAum	172-2	10C3	1C11	10. C	141.	CR37	ql s
Y&erbAum	176-1	2717	2767	263.	26. 8	0R33	ql s
Y&erbAum	176-2	1248.	11C3C	11C77	118C7	4R60	ql s
Y&&Aum	8. -1	1224764.	12466822	12000. 03	1204. 467	3R3.	ql s
Y&&Aum	8. -2	1033814	1223217	1218674	1246O68	0R77	ql s
ZAnq	66-2	2C1228	24. 003	24. C8C	2C3348	3R41	ql s
ZAqonAum	. 3-1	16C13	1676.	16C27	16632	3R37	ql s
ZAqonAum	. 1-1	04C1	0C76	0631	0C42	2R27	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-20	Dns&umne&Name :	P8
RIAen&pamI le D :	c46L9	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO:	2320-37-14 17:37:03	t a&aFAe Name :	363c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
clumAnAum	27-2	277y61	279466	279672	276066	3U93	ql s
cn&Amonh	121-1	013y	0279	0091	0249	0U81	ql s
crsenAq	79-2	981	972	9y9	980	1Uyy	ql s
BarAum	109-1	60074	64228	61889	60162	1U88	ql s
BarAum	107-1	137016	137484	136673	137197	3U43	ql s
BerhllAum	y-1	69y	629	624	606	0U12	ql s
BAsmu&E	23y-1	9y69708	9843184	9y89224	9y03082	1U00	ql s
BAsmu&E	23y-2	032y064	0321366	2769291	2y08963	9U11	ql s
BromAne	81-1	46y0	9218	4818	4y3y	9U9y	ql s
RaOmAum	138-1	80	y2	60	7y	18Uy8	ql s
RaOmAum	136-1	0931	049y	0467	0476	3U64	ql s
RaOmAum	111-1	0129	01yy	0198	0161	1U16	ql s
RalqAum	40-1	00y37	04378	0083y	00y01	3U43	ql s
RalqAum	44-1	988920	988988	987442	988189	3U11	ql s
Rarbon	12-1	4240482	4034221	4049799	42y781y	1U23	ql s
Rarbon	12-2	93639	93660	93290	93937	3U44	ql s
REIorAne	09-1	238y1467	20y61282	29797481	20906740	13U49	ql s
REIorAne	09-2	187440	188447	1y2001	18y437	1U06	ql s
REromAum	92-2	04880	04164	046yy	04982	1U38	ql s
Robal&	9y-2	24141	20080	20703	20791	1U63	ql s
RoI I er	60-2	82401	81823	84390	82768	1U0y	ql s
t hsI rosAum	196-1	13703	1397y	13839	13739	1U37	ql s
t hsI rosAum	196-2	46y4	4614	4784	46y8	1U81	ql s
. rbAum	164-1	8y62	8y90	y230	y30y	1U97	ql s
. rbAum	164-2	4191	0y07	0777	0y99	4U74	ql s
GaOolAnAum	163-1	y812	13021	yy07	13320	2U64	ql s
GaOolAnAum	163-2	9271	9138	9361	9147	2U14	ql s
HolmAum	169-1	87397y1	88yy276	87y3188	87y8418	1U13	ql s
HolmAum	169-2	0y06007	4363740	0799220	0y17404	0Uy2	ql s
DnOAum	119-1	6874976	6729y81	6763041	6786y66	1U19	ql s
DnOAum	119-2	y2742y	y2y278	864262	y36yy3	4U38	ql s
Don	94-2	1206006	1226y17	1217682	1226y78	3U76	ql s
Don	96-2	20420617	20002yy6	20206029	20003y7y	3U43	ql s
Don	97-2	99y611	946879	992324	992807	1U16	ql s
Krhl &on	80-1	273	2yy	27y	282	9U22	ql s
LeaO	236-1	4y0260	4y6368	4881y7	4y293y	3U81	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-20	Dns&umne&Name :	P8
RIAen&pamI le D :	c46L9	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO:	2320-37-14 17:37:03	t a&aFAe Name :	363c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
LeaO	237-1	410y39	438964	437648	41330y	3U82	ql s
LeaO	238-1	1y210y3	1y30386	1y19631	1y1009y	3U4y	ql s
LA&EAum	6-1	2623434	2760y98	26y6103	26y04y7	2U67	ql s
5 agnesAum	24-2	090409	007733	041792	0442y9	2U07	ql s
5 anganese	99-2	204947	227902	2264y6	22y929	1Uy1	ql s
5 olhbOenum	y4-1	4931	463y	0yy2	4067	7U94	ql s
5 olhbOenum	y9-1	2104	2342	2142	2136	2U64	ql s
5 olhbOenum	y6-1	289y	29y2	2742	2701	4Uy3	ql s
5 olhbOenum	y7-1	12y2	11y2	11y2	1229	4U71	ql s
5 olhbOenum	y8-1	0917	0033	0484	0404	0U43	ql s
NeoChmAum	193-1	19y96	19896	16024	16349	1U90	ql s
NeoChmAum	193-2	9234	9318	9038	9177	2U84	ql s
NAqkel	63-2	14487	14708	14274	14933	1U63	ql s
PEosI Eorus	01-2	1680	1079	1442	1933	13U82	ql s
Po&assAum	0y-2	463yy	49837	46229	46344	3U47	ql s
CEoOAum	130-1	6840009	6671961	6683444	6701783	1U44	ql s
CEoOAum	130-2	0148307	014y499	2y46723	0381434	0U7y	ql s
pqanOAum	49-1	492y268	4984103	4496809	4920411	1U41	ql s
pqanOAum	49-2	140644	14244y	102303	10y074	4U98	ql s
pelenAum	82-1	01	-1	23	17	yyU30	ql s
pelenAum	77-2	23	10	17	17	23U31	ql s
pelenAum	78-2	20	20	00	26	21Uy2	ql s
pAAqon	28-1	64921yy	6413338	6496120	640y440	3U43	ql s
pAver	137-1	yy2	1379	1393	130y	4U12	ql s
pAver	13y-1	1300	1342	842	y72	11U64	ql s
poOAum	20-2	68277	67867	68277	68143	3U09	ql s
p&onA&um	86-1	23641	23724	23616	23663	3U27	ql s
p&onA&um	88-1	177273	178677	179806	177261	3U83	ql s
pulfur	04-1	022147	02203y	01714y	023909	3Uy2	ql s
i erbAum	19y-1	y119170	8y43448	8yy6000	y317018	3Uyy	ql s
i erbAum	19y-2	08021y8	0y27306	09017y3	0760679	9U48	ql s
i EallAum	230-1	967	638	638	9y4	4U39	ql s
i EallAum	239-1	1198	1167	12y2	1236	6U23	ql s
i An	118-1	14838	14633	19367	14829	1U98	ql s
i A&anAum	47-1	188994	1y4777	18y960	1y3y69	1U79	ql s
MranAum	208-1	16830	18322	17960	17462	0U92	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab pamI le D :	S0463-20	Dns&umne&Name :	P8
RIAn&pamI le D :	c46L9	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 17:37:03	t a&aFAe Name :	363c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
VanaOAum	91-2	24291	24207	24961	24093	3U79	ql s
Y&erbAum	172-1	2467	2y79	0367	2806	11U43	ql s
Y&erbAum	172-2	14y9	140y	148y	1474	2U38	ql s
Y&erbAum	176-1	2729	2784	2604	2714	2U7y	ql s
Y&erbAum	176-2	1230y	11622	11339	11999	4U93	ql s
Y&&Aum	8y-1	12981794	12896397	12418122	12618644	1U79	ql s
Y&&Aum	8y-2	1204840	1292744	11464yy	1211062	4U73	ql s
ZAnq	66-2	44y44	44286	49148	447y0	1U31	ql s
ZAqonAum	y3-1	7y86	8630	8086	8029	0U76	ql s
ZAqonAum	y1-1	1638	2393	1838	1822	12U14	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-24	Dns&umne&Name :	P8
RIAen&pamI le D :	c46L6	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO:	2320-37-14 17:13:00	t a&aFAe Name :	361cC. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
clumAnAum	27-2	91yy27	923426	910087	917y14	3U76	ql s
cn&Amonh	121-1	080	2y2	479	080	20Uy1	ql s
crsenAq	79-2	014	039	288	032	4U07	ql s
BarAum	109-1	64934	692y1	64971	6478y	3U67	ql s
BarAum	107-1	110y12	112220	112844	112yy0	3U76	ql s
BerhlIAum	y-1	1349	1342	1327	1308	3Uy1	ql s
BAsmu&E	23y-1	9672749	6100072	9933313	976873y	9U68	ql s
BAsmu&E	23y-2	2y11903	2y19748	2y28442	2y18970	3U03	ql s
BromAne	81-1	4684	4626	443y	4970	0U17	ql s
RaOmAum	138-1	46	2y	93	42	26U49	ql s
RaOmAum	136-1	079y	0442	0631	0631	4U43	ql s
RaOmAum	111-1	27y1	2622	2713	2738	0U11	ql s
RalqAum	40-1	49232	49480	49497	49081	3U04	ql s
RalqAum	44-1	76861y	783261	77230y	770643	3U77	ql s
Rarbon	12-1	2689969	2774160	2738081	2722730	1U6y	ql s
Rarbon	12-2	01818	01676	01y44	01810	3U42	ql s
REIorAne	09-1	22306206	29442746	27476699	24y89210	11U33	ql s
REIorAne	09-2	233828	23846y	213948	236619	2U48	ql s
REromAum	92-2	41280	43789	43y29	43yy7	3U60	ql s
Robal&	9y-2	02667	02711	02924	02604	3U03	ql s
RoI I er	60-2	93677	4y683	4y331	4y786	1U6y	ql s
t hsI rosAum	196-1	17734	18988	189y7	182y6	2U83	ql s
t hsI rosAum	196-2	8392	8166	813y	813y	3U73	ql s
. rbAum	164-1	19091	19909	19831	19962	1U46	ql s
. rbAum	164-2	6862	6812	6242	6608	9U1y	ql s
GaOolAnAum	163-1	17028	16686	16611	16879	2U04	ql s
GaOolAnAum	163-2	84yy	8976	8416	84y7	3Uy4	ql s
HolmAum	169-1	8426338	y1118y8	8073004	8606383	4U78	ql s
HolmAum	169-2	07y7190	0y13y97	0y37262	08717y1	1U67	ql s
DnOAum	119-1	6061120	6y38279	6202404	6933611	9U92	ql s
DnOAum	119-2	8y2967	8y6490	y12036	y33442	1U16	ql s
Don	94-2	2136003	2327717	2301237	2399389	2U16	ql s
Don	96-2	06801342	07186716	06973yy2	06862y17	3U84	ql s
Don	97-2	881961	87y321	870894	878149	3U49	ql s
Krhl &on	80-1	011	273	016	2yy	8U4y	ql s
LeaO	236-1	447y4	497y2	49212	49266	1U11	ql s

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	S I era&or :	Jaswal
Lab pamI le D :	S0463-24	Dns&umne&Name :	P8
RIAen&pamI le D :	c46L6	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2320-37-14 17:13:00	t a&aFAe Name :	361c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
LeaO	237-1	06262	0607y	062y3	06013	3U17	ql s
LeaO	238-1	170178	170492	17070y	170496	3U16	ql s
LA&EAum	6-1	2641243	2729y37	2988439	2691893	2U62	ql s
5 agnesAum	24-2	630409	612373	632y32	636106	3U89	ql s
5 anganese	99-2	299824	299yy4	294874	299964	3U24	ql s
5 olhbOenum	y4-1	6827	7492	6713	6yy6	9U73	ql s
5 olhbOenum	y9-1	079	2y2	267	011	18U20	ql s
5 olhbOenum	y6-1	1479	183y	1979	1623	13U96	ql s
5 olhbOenum	y7-1	100	293	238	1y7	2yUy8	ql s
5 olhbOenum	y8-1	900	967	980	961	4U94	ql s
NeoChmAum	193-1	28013	2796y	27742	27874	1U0y	ql s
NeoChmAum	193-2	8800	8y43	8636	87y0	1Uy4	ql s
NAqkel	63-2	19922	19612	193y1	19438	1U81	ql s
PEosI Eorus	01-2	229y	2279	239y	21y7	9U4y	ql s
Po&assAum	0y-2	110y82	11023y	113447	112946	1U69	ql s
CEoOAum	130-1	60y84y7	6827988	62y1y33	6939yy9	4U06	ql s
CEoOAum	130-2	036874y	0343889	0391707	03907y3	3U46	ql s
pqanOAum	49-1	42y1290	466y799	4280770	4414y27	9U33	ql s
pqanOAum	49-2	106349	106882	10y426	107491	1U28	ql s
pelenAum	82-1	-1	40	-0	10	1y8U41	ql s
pelenAum	77-2	17	00	03	27	00U36	ql s
pelenAum	78-2	04	06	41	07	yU74	ql s
pAAqon	28-1	1146y998	11488082	1121y12y	110y2096	1U02	ql s
pAver	137-1	429	429	917	496	11U62	ql s
pAver	13y-1	098	438	042	06y	yU0y	ql s
poOAum	20-2	92646	92423	92232	92420	3U42	ql s
p&ona&um	86-1	283y9	28071	27y94	28143	3U79	ql s
p&ona&um	88-1	207823	243931	206880	208431	3U7y	ql s
pulfur	04-1	282619	277091	272y09	277600	1U79	ql s
i erbAum	19y-1	8841018	y166868	847y267	882y191	0Uy3	ql s
i erbAum	19y-2	0629973	0720394	070404y	06y4024	1U62	ql s
i EallAum	230-1	817	679	738	700	13U13	ql s
i EallAum	239-1	19y2	1879	1784	1793	8U26	ql s
i A	118-1	2y17	2y29	2779	2870	2Uy0	ql s
i A&anAum	47-1	968921	969414	971473	968468	3U90	ql s
MranAum	208-1	2y276	03073	2yy1y	2y899	1U84	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	SI era&or :	Jaswal
Lab paml le D :	S0463-24	Dns&umne&Name :	P8
RIAn&paml le D :	c46L6	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO:	2320-37-14 17:13:00	t a&aFAe Name :	361c C. FUO

Parame&er	5 ass	RPp1	RPp2	RPp0	RPp5 ean	RPpCpt	MnA&s
VanaOAum	91-2	47866	47291	47224	47447	3U77	ql s
Y&erbAum	172-1	48y0	47y0	9040	933y	9U89	ql s
Y&erbAum	172-2	2296	228y	2933	2048	9U69	ql s
Y&erbAum	176-1	0884	0y67	4117	0yy3	2Uy7	ql s
Y&erbAum	176-2	11611	11799	11628	11669	3U68	ql s
Y&&Aum	8y-1	11800191	12691818	117231y0	12368087	4U21	ql s
Y&&Aum	8y-2	12191y4	1239924	12342y6	1238008	3U4y	ql s
ZAnq	66-2	12796	12846	126y6	12766	3U9y	ql s
ZAqonAum	y3-1	1y436	1y636	1y10y	1y080	1U21	ql s
ZAqonAum	y1-1	4242	4391	4284	41y2	2Uy7	ql s

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	SS03-1	t. wTpmb . r Tusb r:J	8N
SPr . TI sb DPP:t&:J	SS03-1	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r:qdOmpr o:J	232-73 714:1 J2 J14	&sTsMdP:usb r:J	36FSS0Ub

8spsb r Tr p	5 sww	S8I 1	S8I 2	S8I -	S8I 5 r s.	S8I 9I &	R. dTw
qPmb c omb	2 72	23 y61	23N NNN	2143113	2132F-N	1UF6	dDw
q. Tb C. h	12171	2666 3-	2 33632	2 -3-Ny	26yy2-2	1U1N	dDw
qpwr . cl	F72	2y-y	4NF4	4Fy-	412y	1U43	dDw
Bspomb	1-F71	2y2F-Ny	2y2N-FF	-33F2 y	2yF-33N	1UF-	dDw
Bspomb	1- 71	4y 2yy1	F12N1 6	F34-3-F	F34N36N	1UF4	dDw
Br phPmb	y71	6NFF2	6 y362	6Ny44N	6N46 y	3U	dDw
Bcwb mE	23y71	F-F11-N	F-1-261	F-1y13F	F-2 N-F	3UN	dDw
Bcwb mE	23y72	266N44y	2 224y	2 -F 44	2 2F4N3	1Uy-	dDw
BpCb c r	N171	4-31	4F6N	4FFy	44 6	-Uy	dDw
Ssob omb	13N71	F634-	FF41F	F6616	F632F	1U3	dDw
Ssob omb	13671	N-F6	N3 yF	N3-1	yN2-	1U62	dDw
Ssob omb	11171	3N36y	36-N-	24y2	1-126	1U44	dDw
SsPdomb	4-71	-y 2N12	-yyy 6N	-yN16N1	-yN4 F4	3U4	dDw
SsPdomb	4471	62yF3 -4	642F4-y-	64116-N-	6- -N-	1U12	dDw
SspeC.	1271	2y1FN-3	-312- 6	-3N6446	-334NN4	2UNF	dDw
SspeC.	1272	-NyF2	-y1N6	43NN2	-y6 4	2U6F	dDw
SEPOpc r	-F71	1-146y-	12NF2 1	12NFN1	12yF261	1U3	dDw
SEPOpc r	-F72	Ny11	NNF-	N332	NFNy	FUy2	dDw
SEpCb omb	F272	N636	N -3F	N3316-	y11 N	3Uyy	dDw
SCesPT	Fy72	146-13F	1-N42F-	14N--32	144-FF-	-U6-	dDw
SCDDr p	6-72	113NN6F6	11F363F2	114-3 2N	11-41N12	1Uy6	dDw
&hwDpOwomb	1F671	6FN	2F	66	6N-	FU2	dDw
&hwDpOwomb	1F672	2y-	-3-	-4	-14	yU32	dDw
Gpeomb	16471	y2	142	13N	114	22UF	dDw
Gpeomb	16472	-	N	43	6	-6U36	dDw
HsoCPe omb	16371	633	N3N	61	6 F	1 U1F	dDw
HsoCPe omb	16372	F1-	443	4-	46-	yUF	dDw
KCPb omb	16F71	N12-FyN	N-64yN3	N2y3324	N2FyF-4	1UF3	dDw
KCPb omb	16F72	-N42242	-N Ny64	- 6N6F2	-N2yyF-	1U4	dDw
t. oomb	11F71	63226yF	61--F21	636 F6F	63 4Fy4	3Uy2	dDw
t. oomb	11F72	N66F4-	N6y141	N 1-y	N6y32	3U2N	dDw
tpC.	F472	N4NN y2	NF1N 13	N -16 F	NF y 26	1UF4	dDw
tpC.	F672	1FF36133y	1FF42-y23	1F63NFF42	1FFF2-4y1	3U-	dDw
tpC.	F 72	-yF6N-F	-y6NN64	-yF21N6	-yFy2yF	3U22	dDw
gphDTC.	N-71	264	266	2N	2 2	4Uy	dDw
Lr so	23671	116 22yy	11FN3--4	11 F43-1	1166NNNN	3U4	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	SS03-1	t. wTpmb . r Tusb r:J	8N
SPr . TI sb DPP:t&:J	SS03-1	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r:qdOmpr o:J	232-73 714:1 J2 J14	&sTsMdPP:usb r:J	36FSS0Ub

8spsb r Tp	5 sww	S8I 1	S8I 2	S8I -	S8I 5 r s.	S8I 9I &	R. dTw
Lr so	23 71	yy66Fy4	yNF16F2	133y64NN	yy 1F N	1U2-	dDw
Lr so	23N71	46-2yN-F	4632241	46-y 26	4624yN43	3U4-	dDw
LdEomb	671	22 13N1	2-2--F-	2-2y2y3	2-3 y3N	1Uy	dDw
5 sk. r womb	2472	2y2F1323	2y-242-2	2y6yN324	2y42442F	3UN1	dDw
5 s. ks. r wr	FF72	-N2y3-F	-NFy6N4	-y4224N	-N 6yNy	1UF1	dDw
5 OPheor . mb	y471	y3N2-3-	y422 1N	y44F212	y-16 4F	2U1N	dDw
5 OPheor . mb	yF71	1-6- 1Fy	1-N-1FF3	1- NyN3	1- F2N-y	3U4	dDw
5 OPheor . mb	y671	14 -13y	1F-y 3Ny	1F-2NN-	1F1F2-41	2U42	dDw
5 OPheor . mb	y 71	N- 1 y3	N412--2	N4 63-F	N4233F2	3U62	dDw
5 OPheor . mb	yN71	22131N3-	224N1412	224y2623	22-FN612	1U33	dDw
ur Cohb omb	1F371	223	23	24	224	yU3	dDw
ur Cohb omb	1F372	-3	4	F3	42	2FUN	dDw
udvr P	6372	- 1211	- - 1N	- F2y4	- -43N	3UFF	dDw
8 EOwDEOpmw	-172	21216	213 4	21-3N	211yy	3UF6	dDw
8 CTswwomb	-y72	y36 -1y	y-F22F1	y2-F3y4	y21N221	1UFF	dDw
9 EOomb	13-71	FN-y3F2	Fy34y64	F 43N24	FN2N2N3	1U42	dDw
9 EOomb	13-72	2N4y2yy	2NF4N4N	2 F23F4	2N1N --	2U3F	dDw
I ds. oomb	4F71	-y 4644	43yNFyy	43yNN6F	43F -6y	1U	dDw
I ds. oomb	4F72	1-4 42	1- F11	1-442-	1-FFFy	1U2F	dDw
I r PP. omb	N271	4NF2N	4y323	4y116	4NNNN	3U6F	dDw
I r PP. omb	72	14y	14	14	14N-	3UN	dDw
I r PP. omb	N72	4y1	4y64	F33-	4y62	3UN	dDw
I dPdC.	2N71	1y1411N	2336 NN	234 322	1yNy-3y	-U4-	dDw
I dPr p	13 71	-43-6N	--4244N	--yy421	--N1NF2	1U31	dDw
I dPr p	13y71	-223y3	-16N-yy	-22Fy13	-23F3 2	3Uyy	dDw
I Coomb	2-72	F14F4NN6	F24614 y	F2y34Ny6	F22 - F4	1U42	dDw
I TpC. Tomb	N671	1y43N4-2	1y4-644y	1y43NF y	1y41 N23	3U3N	dDw
I TpC. Tomb	NN71	16F4N 1yF	164 yF6N-	16 F2F62y	16Fy-616y	3UN6	dDw
I mPVmp	-471	6-N213	6-NN1	6--N 3	6-6y66	3U42	dDw
Ar pe omb	1Fy71	N-F F62	N62NF 3	N-63 2	N44Ny6N	1UN4	dDw
Ar pe omb	1Fy72	- 64 3	-N22N -	- 3362	- NFy32	3UNF	dDw
AEs PPmb	23-71	2 -y-2	2N yy21	2 4 F63	2N334 1	2UF3	dDw
AEs PPmb	23F71	64F 134	6F yN33	644363N	64y2F34	1U1	dDw
Ac	11N71	21-6NNN	214-3y-	21-yN1y	21-yy--	3U1F	dDw
AdS. omb	4 71	- F3N41	- 62yF4	- -4N6F	- 4yFF-	3UN	dDw
Rps. omb	2-N71	y3yNN26	y3NFyy-	y2--142	y1-y-23	3UNy	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	SS03-1	t. wTpmb . r Tusb r:J	8N
SPr . TI sb DPP:t&:J	SS03-1	&dPmTC. :MsdTCpJ	1
&sTr:i :Adb r:qdOmpr o:J	232-73 714:1 J2 J14	&sTsMdP:usb r:J	36FSS0Ub

8spsb r Tp	5 sww	S8I 1	S8I 2	S8I -	S8I 5 r s.	S8I 9I &	R. dTw
0s. soomb	F172	FNyy 6	Fy-32	Fy4y-3	Fy2644	3U42	dDw
YTTr peomb	1 271	F	1F3	1 F	1--	-yU3-	dDw
YTTr peomb	1 272	F6	N-	44	61	-2UN	dDw
YTTr peomb	1 671	122 -	124y3	12643	1246	1U4N	dDw
YTTr peomb	1 672	1F1N1	1FN4y	1FN63	1F6-3	2U4y	dDw
YTTpomb	Ny71	13y1N4F3	11--3F-3	1132 -yF	113y212F	1Uy-	dDw
YTTpomb	Ny72	11Ny1y3	11y N14	11y46-F	11y-NN3	3U	dDw
Zc d	6672	1-34421	1-234y-	1-3y-6N	1-1142	3U6-	dDw
ZqpdC. omb	y371	4442Fy3	4F433N6	4F6-2F6	4F1F-11	1U42	dDw
ZqpdC. omb	y171	y62 66	yN41Fy	yy43F2	yN3-26	1U6-	dDw

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LB umb er p:	LB126466	n Dr psTCp:	aswl sP
Lse l sb DPP t&:	SSB031	t. wTpmb . r Tu sb r :	8N
SPr . Tl sb DPP t&:	SSB031	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2023-07-14 17:30:4J	&sTsMdPP usb r :	066SSBFUb

8spsb r Tr p	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
qPmb c omb	27-2	134	162	164	1J3	11U07	dDw
q. Tdb C. y	121-1	100N	120N	13h2	1203	1JUh4	dDw
qpwr . cd	7J-2	10	h	h	h	6U1h	dDw
Bspomb	13J-1	200	300	167	222	31U23	dDw
Bspomb	137-1	3J0	417	3J0	372	10U34	dDw
Br pyPPmb	h-1	1J6	1N7	13J	160	16UJJ	dDw
Bcvb mTE	20h-1	JJ43067	J61NJ2N	J63h734	J600443	0Uh1	dDw
Bcvb mTE	20h-2	307J74J	2N676h2	2N7NJh2	2h40676	3UhN	dDw
BpCb c r	N1-1	42h2	4J0h	4226	4342	3U41	dDw
Ssob omb	10N-1	17	21	3N	2J	44U0h	dDw
Ssob omb	106-1	360h	33J1	3401	34J3	3Uh7	dDw
Ssob omb	111-1	2702	24N1	24J0	2J44	JU41	dDw
SsPdomb	43-1	Jh0	4hJ	3Jh	4N1	24U1J	dDw
SsPdomb	44-1	4h2h6	4h14N	46J02	4N316	3U2J	dDw
SspeC.	12-1	2J71123	2J1hJNJ	2J66772	2JJ24h3	1U12	dDw
SspeC.	12-2	2h630	2h43N	2N344	2h13N	2U3N	dDw
SEPOpc r	3J-1	11JJ3Nh	112h376	110260J	112h124	2U34	dDw
SEPOpc r	3J-2	7hN6	7J6h	7344	7633	4U27	dDw
SEpCb omb	J2-2	10J0	1120	1077	10N2	3U26	dDw
SCesPT	Jh-2	133	113	h0	112	1hU33	dDw
SCDDr p	63-2	1h43	21h4	2324	21J4	NUh7	dDw
&ywDpOwomb	1J6-1	0	2J	17	14	h1U6J	dDw
&ywDpOwomb	1J6-2	0	0	7	2	173U21	dDw
Fpeomb	164-1	42	7J	67	61	2NU3N	dDw
Fpeomb	164-2	47	27	23	32	3hU17	dDw
GsoCPe omb	160-1	100	N3	67	N3	20U00	dDw
GsoCPe omb	160-2	130	107	117	11N	hUh4	dDw
HCPb omb	16J-1	N23013J	N376N46	N3hJ67J	N33421h	1U0h	dDw
HCPb omb	16J-2	406247h	3N1303h	37NN1h4	3NN7h04	3Uh0	dDw
t. oomb	11J-1	6210NJh	6473760	646N316	63N4311	2U3J	dDw
t. oomb	11J-2	hh12h6	h16J42	h14JJ7	h407hN	4U6J	dDw
tpC.	J4-2	JNh	733	NN3	73J	20U03	dDw
tpC.	J6-2	N236	h626	hN0J	h222	hU31	dDw
tpC.	J7-2	267	272	23h	2Jh	6UNh	dDw
KpyDTC.	N3-1	2J6	27J	27J	26h	4U03	dDw
Lr so	206-1	1h06	203h	1J11	1N1h	1JU0h	dDw

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Inst Id :P8

LB umb er p:	LB126466	n Dr psTCp:	aswl sP
Lse l sb DPP t&:	SSB031	t. wTpmb . r Tu sb r :	8N
SPr . Tl sb DPP t&:	SSB031	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2023-07-14 17:30:4J	&sTsMdPP usb r :	066SSBFUb

8spsb r Tr p	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
Lr so	207-1	1NN4	16hJ	1411	1663	14U2h	dDw
Lr so	20N-1	N073	N07h	6273	747J	13Uh3	dDw
LdEomb	6-1	23h061N	23N0J2N	241NN61	23h666h	0UN3	dDw
5 sg. r womb	24-2	NJN	N00	1017	Nh2	12UJ7	dDw
5 s. gs. r wr	JJ-2	1h7	2J7	210	221	14U2J	dDw
5 OPyeor . mb	h4-1	1317	130N	1033	1220	13U22	dDw
5 OPyeor . mb	hJ-1	21h2	2000	132J	1N3h	24U76	dDw
5 OPyeor . mb	h6-1	2367	167J	1633	1Nh2	21U7N	dDw
5 OPyeor . mb	h7-1	117J	Nh2	N00	hJ6	20U46	dDw
5 OPyeor . mb	hN-1	3201	30Jh	21h2	2N17	1hU3N	dDw
ur Coyb omb	1J0-1	13	0	13	h	N6U60	dDw
ur Coyb omb	1J0-2	3	3	3	3	0U00	dDw
udkr P	60-2	J3	J7	J0	J3	6U2J	dDw
8 EOwDEOpmw	31-2	12J	N3	h2	100	22U04	dDw
8 CTswwomb	3h-2	14N66	14hN3	14N41	14Nh7	0UJ1	dDw
9 EOomb	103-1	614JN17	6412343	637136N	630hN43	2U27	dDw
9 EOomb	103-2	322Jh07	304Nh36	2h7N032	30N42h2	4U14	dDw
l ds. omb	4J-1	411N710	41N32J6	417J270	41Jh07h	0UNJ	dDw
l ds. omb	4J-2	1461J0	13613J	13J176	13h1J3	4U37	dDw
l r PP. omb	N2-1	2J	-2N	3	0	0U00	dDw
l r PP. omb	77-2	0	0	0	0	0U00	dDw
l r PP. omb	7N-2	14	20	h	14	3NU42	dDw
l dPdC.	2N-1	232427	22NNJ3	226214	22h16J	1U36	dDw
l dPr p	107-1	42J	367	20N	333	33U63	dDw
l dPr p	10h-1	2JN	242	30N	26h	12UNN	dDw
l Coomb	23-2	42Nh7	411N4	3hh63	4134N	3UJ6	dDw
l TpC. Tomb	N6-1	2100	21N4	12N3	1NJ6	26UN1	dDw
l TpC. Tomb	NN-1	12266	12400	NJ63	11076	1hU66	dDw
l mPmp	34-1	363J3N	363112	36612N	3642Jh	0U4J	dDw
Ar peomb	1Jh-1	NJ44JN1	NJh12Nh	N464362	NJ33411	0U7J	dDw
Ar peomb	1Jh-2	401N334	374N4J6	3622212	37h6334	JU33	dDw
AEs PPomb	203-1	1633	1JJ0	1267	14N3	12Uh6	dDw
AEs PPomb	20J-1	3NJ1	37Jh	3276	362N	NUJ2	dDw
Ac	11N-1	h17	h42	102J	h61	JUh0	dDw
AdS. omb	47-1	467	JJN	3h2	472	17U6N	dDw
Rps. omb	23N-1	717	62J	333	JJN	3JUNJ	dDw

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LB umb er p:	LB126466	n Dr psTCp:	aswl sP
Lse l sb DPP t&:	SSB031	t. wTpmb . r Tu sb r :	8N
SPr . Tl sb DPP t&:	SSB031	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpro:	2023-07-14 17:30:4J	&sTsMdP u sb r :	066SSBFlb

8spsb r Tr p	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
Vs. soomb	J1-2	30	30	23	2N	13UN6	dDw
YTTr peomb	172-1	17	7J	42	44	6JUN4	dDw
YTTr peomb	172-2	44	2N	2N	33	2NUN7	dDw
YTTr peomb	176-1	h7J	13JN	1033	1122	1NU41	dDw
YTTr peomb	176-2	11211	10643	10h21	10h2J	2U60	dDw
YTTpomb	Nh-1	112h4330	11J024J1	1164J1h4	114N06Jh	1UJ4	dDw
YTTpomb	Nh-2	12N424N	1207N1N	11N6300	1226122	4U20	dDw
Zc d	66-2	277	240	247	2J4	7U6N	dDw
ZqpdC. omb	h0-1	N7J	733	717	77J	11U23	dDw
ZqpdC. omb	h1-1	10N	142	242	164	42U34	dDw

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB150325BL	Instrumnet Name :	P8
Client Sample ID :	PBW325	Dilution Factor :	1
Date & Time Acquired :	2920-97-14 17:51:17	DataFile Name :	963CCBE.d

Parameter	Mass	CPS1	CPS2	CPS0	CPSMean	CPSRSD	Units
Aluminium	27-2	117	74	86	32	24.06	cps
Antimony	121-1	75	75	199	80	17.02	cps
Arsenic	75-2	9	9	9	9	9.99	cps
Barium	105-1	67	100	32	37	04.64	cps
Barium	107-1	32	142	198	114	22.05	cps
Beryllium	3-1	55	63	56	69	12.67	cps
Bismuth	293-1	5451503	5884129	5789768	5795476	0.36	cps
Bismuth	293-2	2362357	2332066	2334238	2380297	9.53	cps
Bromine	81-1	4176	0332	4917	4962	2.45	cps
Cadmium	198-1	4	17	25	15	68.61	cps
Cadmium	196-1	0199	0084	0784	0420	19.90	cps
Cadmium	111-1	2137	2490	2656	2413	3.52	cps
Calcium	40-1	205	274	282	264	3.53	cps
Calcium	44-1	03082	03087	03688	03486	9.44	cps
Carbon	12-1	2683567	2689449	2669829	2676342	9.55	cps
Carbon	12-2	01998	01004	09841	01961	9.81	cps
Chlorine	05-1	1855742	1892183	1780591	1810811	2.97	cps
Chlorine	05-2	11188	11009	19623	11943	0.05	cps
Chromium	52-2	1269	1109	1137	1136	5.44	cps
Cobalt	53-2	60	67	47	53	18.13	cps
Copper	60-2	1999	360	347	379	2.81	cps
Dysprosium	156-1	8	59	00	01	68.64	cps
Dysprosium	156-2	0	7	9	0	199.95	cps
Erbium	164-1	42	42	25	06	26.65	cps
Erbium	164-2	27	27	20	26	7.55	cps
Gadolinium	169-1	59	117	32	86	03.11	cps
Gadolinium	169-2	127	100	197	122	11.06	cps
Holmium	165-1	7325482	8504264	8590171	8029372	4.12	cps
Holmium	165-2	0764449	0318027	0889146	0854094	2.98	cps
Indium	115-1	6239625	6538276	6640379	6519357	2.35	cps
Indium	115-2	392136	323522	344662	325469	2.00	cps
Iron	54-2	496	083	422	496	4.11	cps
Iron	56-2	4104	0384	4967	4962	1.85	cps
Iron	57-2	178	111	103	140	20.43	cps
Krypton	80-1	282	276	255	271	5.02	cps
Lead	296-1	311	803	328	830	5.23	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB150325BL	Instrumnet Name :	P8
Client Sample ID :	PBW325	Dilution Factor :	1
Date & Time Acquired :	2920-97-14 17:51:17	DataFile Name :	963CCBE.d

Parameter	Mass	CPS1	CPS2	CPS0	CPSMean	CPSRSD	Units
Lead	297-1	778	796	580	683	14.27	cps
Lead	298-1	0484	0445	0245	0031	0.78	cps
Lithium	6-1	2409198	2557439	2600727	2549442	4.95	cps
Magnesium	24-2	080	299	259	278	04.12	cps
Manganese	55-2	119	190	77	37	18.24	cps
Molybdenum	34-1	100	175	259	186	01.77	cps
Molybdenum	35-1	80	175	258	172	59.82	cps
Molybdenum	36-1	242	299	180	298	14.42	cps
Molybdenum	37-1	67	199	199	83	21.65	cps
Molybdenum	38-1	232	158	225	225	23.60	cps
Neodymium	159-1	29	10	10	16	24.76	cps
Neodymium	159-2	0	9	9	1	170.21	cps
Nickel	69-2	79	40	79	61	25.29	cps
Phosphorus	01-2	117	199	198	198	7.63	cps
Potassium	03-2	11314	12189	11395	12999	1.09	cps
Rhodium	190-1	6935376	6605755	6523629	6429459	4.45	cps
Rhodium	190-2	0964584	0912889	0197308	0961891	1.55	cps
Scandium	45-1	4105875	4270538	4494423	4271099	0.14	cps
Scandium	45-2	105540	108903	141354	108512	2.00	cps
Selenium	82-1	-20	-8	24	-2	-1102.61	cps
Selenium	77-2	0	9	9	1	170.21	cps
Selenium	78-2	11	15	16	14	18.39	cps
Silicon	28-1	228678	220941	220516	225978	1.03	cps
Silver	197-1	298	175	298	137	3.76	cps
Silver	193-1	199	142	199	114	21.12	cps
Sodium	20-2	21575	29539	29374	21946	2.06	cps
Strontium	86-1	680	600	625	647	4.88	cps
Strontium	88-1	1653	1632	1384	1778	19.97	cps
Sulfur	04-1	071741	079484	070560	071323	9.42	cps
Terbium	153-1	8075441	3911872	8844618	8740377	0.77	cps
Terbium	153-2	0720950	0735998	0892044	0770468	1.16	cps
Thallium	290-1	080	075	442	499	3.98	cps
Thallium	295-1	375	342	1932	1990	7.85	cps
Tin	118-1	775	858	759	734	7.14	cps
Titanium	47-1	167	299	167	178	19.80	cps
Uranium	208-1	80	142	17	81	77.64	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB150325BL	Instrumnet Name :	P8
Client Sample ID :	PBW325	Dilution Factor :	1
Date & Time Acquired :	2920-97-14 17:51:17	DataFile Name :	963CCBE.d

Parameter	Mass	CPS1	CPS2	CPS0	CPSMean	CPSRSD	Units
Vanadium	51-2	0	0	19	6	63.04	cps
Ytterbium	172-1	59	42	67	50	24.12	cps
Ytterbium	172-2	28	22	28	26	12.08	cps
Ytterbium	176-1	1999	1298	1998	1972	11.99	cps
Ytterbium	176-2	3838	19408	19630	19040	0.32	cps
Yttrium	83-1	11196111	12924435	12180226	11771277	4.34	cps
Yttrium	83-2	1138787	1229724	1204544	1218918	1.48	cps
Zinc	66-2	157	160	130	171	11.41	cps
Zirconium	39-1	080	498	599	401	14.27	cps
Zirconium	31-1	58	80	80	75	13.25	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll ra7l e DNpla&aaa	SB103-20B7	t. PTlbe . pTamle pas	Su
FNp. Ta7l e DNpla&aaa	LF7-20	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2 23: J:14a1Js04s2	&l T Rdpamle pas	J LF7UMd

Sl lle pTpl	9l PP	FS71	FS72	FS73	FS79pl .	FS7y7&	5.dP
qNbe c dbe	2J:2	141J	14u6	1042	14u2	4M22	dDP
q. Tde C. h	121:1	16J-4	1u363	1J1Ju	1J440	4M6-	dDP
qlPp. cd	J0:2	2J1	240	206	20J	0MJ	dDP
Bl ldbe	130:1	1J2-0	1u63	1u 04	1J--3	3M2	dDP
Bl ldbe	13J:1	31Ju	32-24	321-J	323	1M-	dDP
BplhNNbe	-:1	23-2	20 -	24-6	2466	2M0-	dDP
BdPe bTE	2 -:1	0J-320J	4J0J4J1	0 36-4	01u4u J	1 M4	dDP
BdPe bTE	2 -:2	2-1 643	2uJ4 J	2-36440	2- J 03	1Mu	dDP
BlCe c p	u1:1	4334	41 -	431J	4204	2M0	dDP
Fl oe dbe	1 u:1	1u3	213	2 4	2	JM01	dDP
Fl oe dbe	1 6:1	4 01	33-2	31	3014	13M0	dDP
Fl oe dbe	111:1	4--1	4uJ2	440J	4JJ3	0MJ	dDP
Fl Ndbe	43:1	1226J	13 13	12u 4	126-0	3M3	dDP
Fl Ndbe	44:1	230u-2	242440	240J01	241363	2Mu	dDP
Fl lr C.	12:1	260uJ3	260 0	266J63J	260uu 6	M3	dDP
Fl lr C.	12:2	31443	3 4 J	3 34	3 J3	2M1	dDP
FENCl c p	30:1	14 61 6	13u-44J	13644u3	13u66J-	1M01	dDP
FENCl c p	30:2	-12u	u62	u111	u61-	0M	dDP
FElCe dbe	02:2	6340	6360	6022	641	1M01	dDP
FCrl NT	0-:2	4- u	4J4J	4-6u	4uJ4	2M3	dDP
FCDDpl	63:2	uu23	uu1-	u-2	uu04	M4	dDP
&hPDlCPtbe	106:1		1J	0	22	114M6	dDP
&hPDlCPtbe	106:2	13	1	J	1	33M	dDP
Ulr dbe	164:1	J0	42	42	03	36M6	dDP
Ulr dbe	164:2	3	1J	2	22	31M2	dDP
Gl oCNl dbe	16 :1	1 u	u3	0u	u3	3 M	dDP
Gl oCNl dbe	16 :2	11J	123	16J	136	2 M3	dDP
HCNe dbe	160:1	u63u20	6uuJ-u3	J20J1J4	J0-446-	12M0	dDP
HCNe dbe	160:2	3u12J43	3u2 16-	3- 3346	3u4041-	1M1	dDP
t. odbe	110:1	66u06-6	000J0J1	00Juu4	0-4 J 2	1 M6	dDP
t. odbe	110:2	-131--	-1-6 u	-2u 36	-2 2u1	M1	dDP
tlC.	04:2	24260	23-2	2416	24110	M3	dDP
tlC.	06:2	434 41	42uu 4	42-J 1	43 u4-	M0	dDP
tlC.	0J:2	1 J1	1 J--	11132	1 uu	2M0	dDP
KlhDTC.	u3:1	2-0	200	2-	2u	JMu	dDP
Lpl o	2 6:1	u1-J	u24J	JuJ0	u1 6	2M4-	dDP

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll ra7l e DNpla&aaa	SB103-20B7	t. PTlbe . pTaml e pas	Su
FNp. Ta7l e DNpla&aaa	LF7-20	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2 23: J:14a1Js04s2	&l Tl Rdpamle pas	J LF7UMd

Sl ll e pTpl	9 l PP	FS71	FS72	FS73	FS79 pl .	FS7y7&	5. dP
Lpl o	2 J:1	6-6-	J 02	60 2	6u41	4M34	dDP
Lpl o	2 u:1	310 4	32366	31J3u	31uJ	1M4	dDP
LdEdbe	6:1	266026u	22312Ju	226-422	23uu606	1 M6	dDP
9 l g. pPdbe	24:2	1 2u44	1 4222	1 6362	1 44J6	1M1	dDP
9 l . gl . pPp	00:2	1413	1443	12-J	13u0	0M6	dDP
9 CNr op. be	-4:1	1J62	1u4uu	1u463	1u1-	2M2	dDP
9 CNr op. be	-0:1	2130-	2216u	22J1-	22 u2	3M1	dDP
9 CNr op. be	-6:1	23004	20 31	24222	2426-	3M0	dDP
9 CNr op. be	-J:1	134u2	1364	1364-	130-	M6-	dDP
9 CNr op. be	-u:1	34-6-	3600J	36 J3	30u66	2M2J	dDP
mpCohe dbe	10 :1	13	J	J	-	43M20	dDP
mpCohe dbe	10 :2	1	J	J	u	24M1	dDP
mdkpN	6 :2	141	133J	130J	136u	2MJ	dDP
SECPDECIbP	31:2	11J	J0	u3	-2	24M0	dDP
SCTl PPdbe	3-:2	J0-42	J2u0-	J41u3	J432u	2Mu	dDP
y ECodbe	1 3:1	6064211	0422-34	0J3 4u6	0- 0uJJ	1 M	dDP
y ECodbe	1 3:2	3 4J- 4	3 u6J42	3 J1-30	3 6uu6	M64	dDP
7dl . odbe	40:1	44 J60J	3J1 JJu	36uJ00	3-3032u	1 M4	dDP
7dl . odbe	40:2	14 -21	13u u4	13u443	13-14-	1M11	dDP
7pNp. dbe	u2:1	J31	Ju	J-1	J6J	4M16	dDP
7pNp. dbe	JJ:2	33	1J	1J	22	43M2u	dDP
7pNp. dbe	Ju:2	1 -	1 2	-u	1 3	0M41	dDP
7dNC.	2u:1	2u6u03	2u-616	2uJ10J	2uJuJ0	M03	dDP
7dNpl	1 J:1	1 6-6	112uu	12431	114J2	JM6-	dDP
7dNpl	1 -:1	1 013	11J64	11u3	1136-	6M03	dDP
7Codbe	23:2	2 23-	2 0u4	1--16J	2 J14	M1	dDP
7TC. Tbe	u6:1	310-	3 J0	32	3140	2M2	dDP
7TC. Tbe	uu:1	244uu	2423u	240 0	24411	M61	dDP
7bNbl	34:1	3JJ003	3J-6u3	3Ju100	3Ju463	M2-	dDP
Aplr dbe	10-:1	u-0-J-6	J360u-u	J6-3J01	u 64u1	1 M01	dDP
Aplr dbe	10-:2	36062u2	3J4uJ66	3J-u04u	3J34032	1M3	dDP
AEl NNbe	2 3:1	u6-0	-412	u-03	- 2	4M3	dDP
AEl NNbe	2 0:1	21JJJ	2232	21402	21u0	2M1	dDP
Ac	11u:1	Ju3	- u	642	JJu	1JM10	dDP
AdT. dbe	4J:1	0- 1	J344	J12J	6J-1	11M40	dDP
5 ll . dbe	23u:1	2J6J3	2uJu4	2u 4	2u160	2M1	dDP

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll ra7l e DNpla&asa	SB103-20B7	t. PTlbe . pTaml e pas	Su
FNp. Ta7l e DNpla&asa	LF7-20	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2 23: J:14a1Js04s2	&l Tl Rdpamle pas	J LF7UMd

Sl ll e pTpl	9 l PP	FS71	FS72	FS73	FS79 pl .	FS7y7&	5 . dP
Vl . l odbe	01:2	-u6	1 4	1 0	- - u4	1MJ	dDP
YTpIr dbe	1J2:1	42	6J	42	0	2uMJ	dDP
YTpIr dbe	1J2:2	6	1J	2u	1J	66M0	dDP
YTpIr dbe	1J6:1	110u	1 -2	11	111J	3M0	dDP
YTpIr dbe	1J6:2	1 66	1 61	1 JJJ	1 6u2	Nl	dDP
YTTdbe	u-:1	123313-J	- - J 0	1 23u6-0	1 u46J14	11M2	dDP
YTTdbe	u-:2	1216-31	121 11J	122uJ3	121u0-3	MJ	dDP
Zc d	66:2	23 J	23u	23J4	2304	1M2	dDP
ZddC. dbe	- :1	1440	10342	10 -2	14-61	3Mu	dDP
ZddC. dbe	-1:1	34 -	31-2	316J	3206	4Mu	dDP

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	St pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T:J	S0232-70	&I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T:J	y h 7M31	T8piqC. :MwOICI:J	1
Twip:A:coe p:dOobdpn:J	2720-7 -14:1 Ja J20	TwiwMt8p:mwe p:J	7 1dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND0	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2 -2	63u77	63424	6u 27	63014	7R3	OI
d. ioe C. E	121-1	u32	u77	377	u64	6R42	OI
dIl p. oO	a-2	121	121	104	12a	aR33	OI
Bwldpe	10a-1	674	62u2	4262	aa01	1R46	OI
Bwldpe	10 -1	12u10u	1017au	123266	1234u	1R14	OI
BplE8dpe	3-1	u43	u0a	uu2	uaa	2Ru6	OI
Bdqe biG	273-1	a4a0170	a012u 7	a4 267u	a412u67	1R61	OI
Bdqe biG	273-2	2u6664	2u00a31	23 a21	2u31u1u	2Ra6	OI
BIOe q p	u1-1	270u2	2 10a	07604	267a1	27R77	OI
9 wne dpe	17u-1	00	0u	au	40	01R11	OI
9 wne dpe	176-1	0073	0026	021	02u4	1Ru	OI
9 wne dpe	111-1	204	206u	207	2041	1R00	OI
9 w8Odpe	40-1	0uu101	0323 2	0ua 4	0uu3a3	7R34	OI
9 w8Odpe	44-1	6666710	6a206 u	6a47 42	6a 6u11	1R1u	OI
9 wIr C.	12-1	0 3u	402 6a6	46a23 u	42a0a74	17R0	OI
9 wIr C.	12-2	67a77	6a223	60 4u	601a3	0Ru0	OI
9 G8Clq p	0a-1	1a61064	16aua66	1664032	162u17	0Raa	OI
9 G8Clq p	0a-2	11u22	11a7a	121u7	11u06	2Ru6	OI
9 GIOe dpe	a2-2	0u14	0 01	0u41	0 3a	1Ra1	OI
9 Or w8	a3-2	123	1440	1420	10uu	aR0	OI
9 Ot t pI	60-2	a 7a	a66a	a67a	a6au	7Ru3	OI
TEI t IOI dpe	1a6-1	u 06	u3a0	uu2u	uu03	1R20	OI
TEI t IOI dpe	1a6-2	47u	0 3	0u31	032a	0R	OI
UIr dpe	164-1	211	66ua	6363	63aa	0Ru	OI
UIr dpe	164-2	233	2u 4	07a7	23 4	0R7a	OI
HwnO8q dpe	167-1	413	06	006	43	2Ru2	OI
HwnO8q dpe	167-2	4711	06 4	036	0uu4	4R2	OI
h O8e dpe	16a-1	u77a331	u2a0u07	u016 74	u1321 a	2R71	OI
h O8e dpe	16a-2	0 u4666	0 u1020	03aau40	0u47611	2R67	OI
&ndpe	11a-1	614au73	6116673	6a0 431	626660	0Ra	OI
&ndpe	11a-2	u 6633	u 2337	3111u0	uu63a	2R0	OI
&C.	a4-2	1440u7	1401 2	140 aa	140 63	7R42	OI
&C.	a6-2	2 6u 77	2 1u16u	2 4u727	2 44360	7R30	OI
&C.	a -2	6a61	6a121	66 3a	6au44	1R01	OI
KIEt iC.	u0-1	246	2a6	231	26a	uR30	OI
Lpwn	276-1	104 3	126a6	141 a	1040	aR66	OI

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pl:J	LB126466	St plwiCl:J	swl Pw8
Lwr :Dwe t 8p:&T:J	S0232-70	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T:J	y h 7M31	Tqbiq C. :MwOlCl:J	1
Twip:A:cqe p:d Qobdpn:J	2720-7 -14:1 Ja J20	TwiwMq8p:mwe p:J	7 1d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND0	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	27 -1	17467	17 02	17a33	17a3	1R23	Ol l
Lpwn	27u-1	a162a	a7a 0	a22a0	a14u4	1R3a	Ol l
LqjGqpe	6-1	2a16470	2a1 604	24au027	243 4a0	1R06	Ol l
y wg. pl qpe	24-2	61u724	612u41	674441	611 63	1R12	Ol l
y w. gw. pl p	aa-2	uu011	uu02a	u346a	uu 77	7Ra	Ol l
y O8Er np. be	34-1	aa2	u11	3 u	u7	2Ra	Ol l
y O8Er np. be	3a-1	4uu4	a071	a2 6	a1a4	4Ra4	Ol l
y O8Er np. be	36-1	61	6aua	64a2	6474	0R2a	Ol l
y O8Er np. be	3 -1	02u4	0142	021	0214	2R21	Ol l
y O8Er np. be	3u-1	u 61	3 u	u42u	u0u3	4R63	Ol l
mpOnEe qpe	1a7-1	1a436	1aua6	16220	1auau	2R23	Ol l
mpOnEe qpe	1a7-2	a024	a021	a171	a243	2R44	Ol l
mqOkp8	67-2	17a0	330	17 7	1703	0Ru	Ol l
NGOl t GOlbl	01-2	277	2au	2u0	24	1 R07	Ol l
NOiwl l qpe	03-2	2210a6	220a74	22a22	220062	7Ru	Ol l
F GOnqpe	170-1	6221 34	67047ua	6167u2	610u372	1Ra6	Ol l
F GOnqpe	170-2	2331a44	231u137	07201 2	23 606	1Ru1	Ol l
DOw. nqpe	4a-1	42 2aa3	47647a3	413763a	41 a 1	2Ra2	Ol l
DOw. nqpe	4a-2	102u 2	107022	104660	102613	1R3a	Ol l
Dp8p. qpe	u2-1		u1	24	61	a2Ru	Ol l
Dp8p. qpe	-2	2	2	17	21	4aRau	Ol l
Dp8p. qpe	u-2	20	13	2a	22	10R3u	Ol l
Dqp8OC.	2u-1	2u31uaa	2ua36243	2 3u2u23	2u433211	1R3	Ol l
Dq8vpl	17 -1	1a7	1u0	2au	13	2uR10	Ol l
Dq8vpl	173-1	1au	177	132	1a7	07R30	Ol l
DOnqpe	20-2	000uu20	0001u17	0077u 3	0020u0	7R61	Ol l
DilC. iqpe	u6-1	1u13a1	1u1 a	1u1470	1u1 70	7R1a	Ol l
DilC. iqpe	uu-1	16u6120	161106a	166121a	16a2371	2R07	Ol l
Db8bl	04-1	a27aaa	a14 60	a722u3	a12a06	1Ru2	Ol l
cplr qpe	1a3-1	u00 731	u20a422	ua031	u0 7a60	1Rua	Ol l
cplr qpe	1a3-2	0637306	0606u11	0 00 23	06u 1a3	1R02	Ol l
cGw8qpe	270-1	1	42a	677	au1	2aR23	Ol l
cGw8qpe	27a-1	1677	1477	127u	1470	10R36	Ol l
cq	11u-1	a40a	au1u	67a1	a 6u	aR47	Ol l
cqjw. qpe	4 -1	a413a	a03u6	a06	a03a2	7R4u	Ol l
5 lw. qpe	20u-1	04au1	0aa1	040a6	04u1u	1R	Ol l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	St plwiCI:J	swl Pw8
Lwr :Dwe t 8p:&T :J	S0232-70	&l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h 7MB1	Tqpiq C. :MwOCI:J	1
Twip:A:cqe p:dOobqpn:J	2720-7 -14:1 Ja J20	TwiwMqp:mwe p:J	7 1dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND0	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wnqpe	a1-2	0247	00 7	001	0073	1R3u	Qt l
Yiiplr qpe	1 2-1	2173	24 a	2004	2076	uR72	Qt l
Yiiplr qpe	1 2-2	1711	12 2	11u3	11a	11Ra2	Qt l
Yiiplr qpe	1 6-1	20 a	2404	2073	20 2	2R64	Qt l
Yiiplr qpe	1 6-2	11767	111uu	1136	1147a	4R07	Qt l
Yiilqpe	u3-1	11u1 434	11733au1	11u62136	11a30737	0R63	Qt l
Yiilqpe	u3-2	11 7070	11au1ua	1274710	11 a71	2R72	Qt l
Zq O	66-2	3176	360	3770	3243	0R3u	Qt l
ZqOC. qpe	37-1	10102	10220	14677	106a1	6R72	Qt l
ZqOC. qpe	31-1	2ua7	012a	07 a	071	4Ru6	Qt l

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	S0232-74	tCl Tpmb Cr Tu wb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U32	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja77a20	&wTwUd8 :u wb r :a	7 2q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	10h40	10 70	1020J	1043h	1Mh	dDl
qCTb nCE	121-1	46	h7J	h2h	h77	6M71	dDl
qpl r Ccl	h-2	146	121	3h	121	21M14	dDl
Bwpcmb	10h-1	601 2	6014J	6436h	60 62	1M60	dDl
Bwpcmb	10 -1	17671h	1170h	17J137	17J1J	2M71	dDl
Br pE8mb	3-1	hJ4	h	h42	h6J	0M32	dDl
Bdb mTG	273-1	hh32726	h4h1h03	h431h7J	hh11631	1M01	dDl
Bdb mTG	273-2	2JJhJ46	2J101h7	23232 7	2J 67J3	2M74	dDl
Bpmb cCr	J1-1	1J212	2122h	206h4	21707	12M36	dDl
5 wob cmb	17J-1	h7	46	hJ	h1	12M03	dDl
5 wob cmb	176-1	0442	02J4	0h1	0414	0M43	dDl
5 wob cmb	111-1	2h74	20h4	2h1	24hJ	0M6J	dDl
5 w8lcmb	40-1	46J207	4 1hJh	4 7616	4 7144	7M0	dDl
5 w8lcmb	44-1	604204	30Jh 6	J01746	J712Jh	1M3J	dDl
5 wpenC	12-1	06411J7	03 0h76	422h2 J	03466h4	M42	dDl
5 wpenC	12-2	h0003	h00J3	h0 43	h0432	7M42	dDl
5 G8hpcCr	0h-1	16J1202	1 47h34	1 31707	1 0 613	0M16	dDl
5 G8hpcCr	0h-2	1224	10h3J	10201	10726	hM06	dDl
5 Gpmb cmb	h2-2	1617	1 30	1J00	1 46	6M42	dDl
5 new8T	h3-2	1J10	16J	1J4	1 J2	4M4	dDl
5 nDDr p	60-2	0 2	0 0	0hJ	06J4	2M2J	dDl
&El Dpnl cmb	1h6-1	41h3	42J4	0J42	473h	hM16	dDl
&El Dpnl cmb	1h6-2	1 J7	16h0	131	1 J0	M03	dDl
Fpecmb	164-1	0204	2304	072h	0764	hM72	dDl
Fpecmb	164-2	1020	1267	1220	1263	0M33	dDl
Hwon8Ccmb	167-1	021	04h3	04h1	00 6	4M76	dDl
Hwon8Ccmb	167-2	1 67	132	1 J7	1J22	4M33	dDl
y n8b cmb	16h-1	J26J22J	J417 67	J07076h	J02 0h1	7M3	dDl
y n8b cmb	16h-2	0J4hh12	0J431JJ	0J 6J70	0Jh 16	7M44	dDl
tCocmb	11h-1	6444140	6261 11	6217361	607h67h	1M34	dDl
tCocmb	11h-2	J374 4	JJ6126	J33601	J327	7M	dDl
tpnC	h4-2	42h72	42031	40J 0	42322	1M32	dDl
tpnC	h6-2	4073	3 30	6 62	0317	7M3	dDl
tpnC	h -2	27633	2732	21121	27316	1M71	dDl
KpEDTnC	J0-1	246	2h2	206	24h	0M0h	dDl
Lr wo	276-1	J3 6	J 64	Jh 7	J 7	2M02	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	S0232-74	tCl Tpmb Cr Tu wb r :a	NJ
5 8r CTl wb D8 :t&:a	9 y 7U32	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2720-7 -14:1Ja77a20	&wTwUd8 :u wb r :a	7 2q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	27 -1	70h	707	660h	6377	0M00	dDl
Lr wo	27J-1	006h6	00hh	00 47	006h1	7M2	dDl
LdTGmb	6-1	24 h103	24277 1	2446 1J	244 073	1M10	dDl
9 wgCr l mb	24-2	JJ26h7	J 6031	J 364	J 3772	7M0	dDl
9 wCgwCr l r	hh-2	32226	30006	32J73	32 37	7M67	dDl
9 n8Eeor Cmb	34-1	3J62	177h4	177J	17771	1M21	dDl
9 n8Eeor Cmb	3h-1	1021h	142hJ	10333	10J24	0M30	dDl
9 n8Eeor Cmb	36-1	1h4h3	1h426	1h626	1hh74	7M03	dDl
9 n8Eeor Cmb	3 -1	Jh2J	J62J	JJ 7	J6 h	2M70	dDl
9 n8Eeor Cmb	3J-1	20727	201h0	2161J	22h3	0M6	dDl
u r noEb cmb	1h7-1	7 h	442	6hJJ	70h	6M73	dDl
u r noEb cmb	1h7-2	2134	21h4	20 7	2203	hM1h	dDl
u cdkr 8	67-2	hh0	h2	h0	h03	2M17	dDl
NGhl DGhpml	01-2	1h7	27J	22h	134	27M26	dDl
NnTwl mb	03-2	210301	21 144	21h027	21h46h	7Mh	dDl
. Ghocmb	170-1	613330	61h4221	61122J	61hh4J2	7M1	dDl
. Ghocmb	170-2	230712	07407 0	2J 0 J6	234J33h	2M32	dDl
l dwCocmb	4h-1	41h7 66	41hJ137	4127h0h	4140164	7M4J	dDl
l dwCocmb	4h-2	102770	104036	1042 1	100hh	1M71	dDl
l r 8 Cmb	J2-1	J6		37	Jh	M1J	dDl
l r 8 Cmb	-2	10		17	17	00M07	dDl
l r 8 Cmb	J-2	2J	2	20	26	17M1J	dDl
l 8dnC	2J-1	276J7111	27344h77	2730321J	27Jh4617	7M2	dDl
l 8vr p	17 -1	142	1h7	J0	12h	23M76	dDl
l 8vr p	173-1	142	17J	J0	111	26M04	dDl
l nocmb	20-2	4026000	4021 44	42J04hh	4017h17	7M1h	dDl
l TpmCTmb	J6-1	264246	2661 J	261274	260J 6	7M3h	dDl
l TpmCTmb	JJ-1	20 3 2h	20h204h	204J3 6	2067043	7M1	dDl
l m8mp	04-1	0h 03	0 3h2	014h6	0h743	7M4h	dDl
Ar pecmb	1h3-1	J416h23	J4 2141	J041476	J41772h	7MJ	dDl
Ar pecmb	1h3-2	0 42J1	0 1h1JJ	06 3234	0 12400	7M6	dDl
AGw8mb	270-1	0h7	442	0hJ	0J0	10M22	dDl
AGw8mb	27h-1	JhJ	3h7	h	J61	17M1	dDl
AdC	11J-1	131	1 42	216	1342	11M77	dDl
AdTwCmb	4 -1	17h0J	17J0J	17 60	17 10	1M46	dDl
RpwCmb	20J-1	037 J	03h 1	0J032	03714	1M12	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	S0232-74	tCl Tpmb Cr Tu wb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U32	&8mTcnC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja77a20	&wTwUd8 :u wb r :a	7 2q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwocmb	h1-2	1730	3h0	367	1772	MJ	dDl
YTTr pecmb	1 2-1	1732	117J	Jh7	171	14M22	dDl
YTTr pecmb	1 2-2	hh6	46	h1	h10	JM03	dDl
YTTr pecmb	1 6-1	16 h	1 32	167J	1632	hM43	dDl
YTTr pecmb	1 6-2	17hJ2	170 6	17J43	17670	2M24	dDl
YTTpcmb	J3-1	11604hJ6	11042J66	114411h0	114 2J6J	1M23	dDl
YTTpcmb	J3-2	116362	11J7JJ	11 h272	11 h203	7M4J	dDl
ZdCd	66-2	126J6	10733	12343	12312	1M02	dDl
ZqpdnCcmb	37-1	h1h3	4 J4	h Jh	h240	3M04	dDl
ZqpdnCcmb	31-1	1742	112h	11 h	1114	6M7h	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJs	LB126466	St pIl iCIJs	wl P8 l N
LI r JDI e t NJ8T JsJ	S0232-7	&FIlbe . piJml e pJs	ua
9 Np. iJDI e t NJ8T JsJ	y h 7M30	TdNiqC. JM OCIJs	1
TI ipJAJcqe pJdOobdqpnJs	2720-7: -14J1as70s21	TI il MdNJml e pJs	7: 0dF UMRn

ul Il e pipl	y l PP	9 u D1	9 u D2	9 u D0	9 u Dy pl .	9 u DF DT	5 . qP
dNe q dpe	2: -2	411a7	41 13	4124	4101	7R40	Q P
d. iqe C. E	121-1	:	67a	600	676	4Ra0	Q P
dIPp. qO	: -2	147	1	123	141	3R24	Q P
Bl dpe	10 -1	66: :	632 2	66a: 4	6: 62a	2R7a	Q P
Bl dpe	10: -1	11a617	113a	113016	113267	7R 2	Q P
BplENNpe	3-1	64:	6: 1	606	6 2	2R 4	Q P
BqPe biG	273-1	436 01	0 70	a0436	62a000	0R22	Q P
BqPe biG	273-2	2aaa112	2a4766:	2: a 3: 2	2a0a2 7	1Ra7	Q P
BlCe q p	a1-1	1a30a	20627	26700	22a64	1 R a	Q P
9 l ne dpe	17a-1	: 1	23	0a	46	4aR17	Q P
9 l ne dpe	176-1	0142	046:	0404	004a	R04	Q P
9 l ne dpe	111-1	2232	2 2:	2 06	24 2	R66	Q P
9 l NNdpe	40-1	46a4a:	462340	4636: 1	46: 704	7R:	Q P
9 l NNdpe	44-1	: a04 :	: aa1 1a	: a2: 40	: a4: a0:	7R0:	Q P
9 l lr C.	12-1	066601	411076	40: 436	47 144a	aRa4	Q P
9 l lr C.	12-2	4aa6	: 2 4	422	a 4	2R22	Q P
9 GNCIq p	0 -1	1a76666	1aa3644	13 2a1:	1aa0742	0Ra3	Q P
9 GNCIq p	0 -2	147: 4	10: 1	14731	10367	1R 2	Q P
9 GlCe dpe	2-2	074:	01: 7	026:	0161	0R43	Q P
9 Cr l NN	3-2	2777	276:	2127	2762	2R32	Q P
9 Ct pl	60-2	4641	40 :	402:	4442	0Ra3	Q P
TEPt lCPdpe	1 6-1	: 6a	43: 6	00	067	: R47	Q P
TEPt lCPdpe	1 6-2	241:	224:	20 7	200a	0R66	Q P
Ulr dpe	164-1	4271	41a4	41 1	41: 3	7R61	Q P
Ulr dpe	164-2	1a67	1370	132:	1a3:	1R a	Q P
HI nCNqdpe	167-1	4a 1	4604	4304	4a7:	0R22	Q P
HI nCNqdpe	167-2	24 4	2447	204:	2414	2R41	Q P
h CNe dpe	16 -1	a103: 6a	a10: 12a	a: aa 3:	a0 164	4R43	Q P
h CNe dpe	16 -2	0: : 2763	0: : : 37	06a672a	0: 0a623	1R20	Q P
&ndpe	11 -1	6037: : 3	64aa332	6a03362	6 : 0244	0R 3	Q P
&ndpe	11 -2	a: 77:	aa361:	a 6a :	a: 21a0	1Ra3	Q P
&C.	4-2	3621:	367a2	3612:	36142	7R7:	Q P
&C.	6-2	1a: : 0a3	1a2: 642	1a: 33	1a61662	1R a	Q P
&C.	: -2	4 143	44a26	4 6	4 1: :	7Ra1	Q P
KIEt iC.	a0-1	263	2: 6	01:	2a:	3R10	Q P
Lpl n	276-1	11a61	12003	1102:	11a40	4R2a	Q P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJs	LB126466	St pIl iCIJs	wI P8I N
LI r JDI e t NJ8TJsJ	S0232-7	&FIlbe . piJmI e pJs	ua
9 Np. iJDI e t NJ8TJsJ	y h 7M30	TdNiqC. JM OCIJs	1
TI ipJAJcqe pJdOobdpnJs	2720-7: -14J1as70s21	TI il MdNJmI e pJs	7: 0dFUMRn

ul Il e pipl	y I PP	9uD1	9uD2	9uD0	9uDy pl .	9uDFDT	5 . qP
LpI n	27: -1	33 4	3: 30	36a2	3a73	1R47	OI P
LpI n	27a-1	461: :	4: 1: 0	4 3	4640	1R47	OI P
LqGdpe	6-1	24a14: 2	2444127	2617: 11	2 12171	0R4a	OI P
y I g. pPdpe	24-2	a: : : 3	aa021	aa4117	aa160	7R47	OI P
y I . gI . pPp	-2	3a : 4	3a7 1	3361	3a: 4:	7Ra1	OI P
y CNEr np. be	34-1	12403	12a47	1037:	10762	Ra1	OI P
y CNEr np. be	3 -1	1: 612	1: 6: a	1: 627	1: 60:	7R21	OI P
y CNEr np. be	36-1	136: 0	1a423	1a: 07	1a344	0R42	OI P
y CNEr np. be	3: -1	17310	17: : 3	11107	17341	1R62	OI P
y CNEr np. be	3a-1	2a4	23137	23431	2374	1Ra0	OI P
mpOnEe dpe	1 7-1	3a07	1711:	3 07	3a26	2R33	OI P
mpOnEe dpe	1 7-2	027:	00: 7	0164	024:	0R06	OI P
mqOkpN	67-2	174:	1710	3 7	1770	4Ra3	OI P
uGOPt GOIbP	01-2	132	277	200	27a	17Ra	OI P
uOIl PPdpe	03-2	2034a2	20 : a1	20a374	20a7 6	7Ra4	OI P
FGOndpe	170-1	627a440	6412 02	6: 4637	64 367	4R21	OI P
FGOndpe	170-2	23136: a	23117a4	230a7 6	2322303	7R4:	OI P
DOI . ndpe	4 -1	4121324	4272 6a	4411aa2	424 4 a	0R0	OI P
DOI . ndpe	4 -2	100: 21	10 2a7	100731	104707	7Ra4	OI P
DpNJ. dpe	a2-1	2	: 1	02	2	0: R21	OI P
DpNJ. dpe	: : -2	1:	27	2:	21	24R12	OI P
DpNJ. dpe	: a-2	01	07	24	2a	10R06	OI P
DqNOC.	2a-1	2 6a: 1	2 621336	2 : 7a43	2 6: 2 43	7R1a	OI P
DqNpI	17: -1	100	1:	100	14:	16R04	OI P
DqNpI	173-1	1:	100	132	16:	1aR70	OI P
DOndpe	20-2	4077476	421 a70	4233241	42: 1a1:	1R14	OI P
DiIC. idpe	a6-1	264064	2647 6	261232	26020:	7R64	OI P
DiIC. idpe	aa-1	24711a3	203: 011	20a4432	2034001	7R06	OI P
DbNbI	04-1	: 06360	: 232: 1	: 24aa4	: 070: 0	7Ra4	OI P
cpIr dpe	1 3-1	a42624a	a434037	326 : 60	a: 2aa77	R04	OI P
cpIr dpe	1 3-2	06a4622	06a6623	0607 00	066: 262	7Ra:	OI P
cGI NNdpe	270-1	0a0	0:	4:	411	10R7	OI P
cGI NNdpe	27 -1	a 7	1700	176:	3a0	11Ra6	OI P
cq	11a-1	04 3	0a: 6	026:	0 04	aRa7	OI P
cqI . dpe	4: -1	00: 43	0 70	04a: 6	04 0	2R70	OI P
5II . dpe	20a-1	03322	41726	03a07	472 3	1R6	OI P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJs	LB126466	St pIl iCIJs	wl P8 l N
LI r JDI e t NpJ8TJsJ	S0232-7	&FIlbe . piJmI e pJs	ua
9 Np. iJDI e t NpJ8TJsJ	y h 7MB0	TdpiqC. JM OCIJs	1
TI ipJAJcqe pJdOobdqpnJs	2720-7: -14J1as70s21	TI il MdpJmI e pJs	7: 0dF UMRn

ul Il e pipl	y l PP	9 u D1	9 u D2	9 u D0	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	1-2	134:	1a67	1aa:	1a3a	2R04	OI P
YiipIr dpe	1: 2-1	126:	1 1:	1 6:	14 7	11R73	OI P
YiipIr dpe	1: 2-2	6: a	: 22	: 11	: 74	0R23	OI P
YiipIr dpe	1: 6-1	2777	13 7	276:	2776	2R32	OI P
YiipIr dpe	1: 6-2	177: 1	11016	17: aa	17: 2	Ra0	OI P
YiiIdpe	a3-1	11 7 17	114 aa3	12163a7	11: 17471	0R47	OI P
YiiIdpe	a3-2	11a7036	116 066	11 03 3	1166 : 4	1R14	OI P
ZqO	66-2	1 13	14641	1 72a	1 760	2R32	OI P
ZdOC. dpe	37-1	a3: 7	a061	a206	a 22	4R61	OI P
ZdOC. dpe	31-1	1: 6:	1: 42	1: 6:	1: a	7Ra2	OI P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	S0232-76	tCl Tpmb Cr Tu wb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U30&	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja76a21	&wTwUd8 :u wb r :a	7 4q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	4063h	40360	40236	406h1	7M	dDl
qCTb nCE	121-1	hhJ	h1	677	hhJ	M46	dDl
qpl r Ccl	h-2	103	14J	1h7	146	4M70	dDl
Bwpcmb	10h-1	667 3	6J203	6 321	6 410	1M0	dDl
Bwpcmb	10 -1	11041	11J63h	11 4h	116h20	2M0	dDl
Br pE8mb	3-1	62	67	661	602	4M07	dDl
Bdb mTG	273-1	hh64336	h 40	h 1h7 3	h6J4J1	1M37	dDl
Bdb mTG	273-2	2Jh 304	2J12062	23047J7	2J6J12h	2M14	dDl
Bpmb cCr	J1-1	13007	24736	2h3hJ	2012J	14MJ	dDl
5 wob cmb	17J-1	00	6	46	43	04M8h	dDl
5 wob cmb	176-1	0h73	0432	0 04	0h J	0M	dDl
5 wob cmb	111-1	2h23	2434	2 7	2h 6	4M40	dDl
5 w8dcmb	40-1	4hh670	46614J	46h0h7	46206	1M2	dDl
5 w8dcmb	44-1	63 0 7	Jh026	J11 12	64J70	7M	dDl
5 wpenC	12-1	0 J6Jh6	4142hJh	406J4J2	473307J	M1h	dDl
5 wpenC	12-2	h4370	hh0hh	h6200	hh43	1M22	dDl
5 G8mpcCr	0h-1	1J006J7	13J16h2	13J2321	1302 h1	4M44	dDl
5 G8mpcCr	0h-2	14702	10 37	14066	14760	2M7h	dDl
5 Gpmb cmb	h2-2	07J4	02h4	0704	0124	0M63	dDl
5 new8T	h3-2	2104	211	1330	27J1	0M8	dDl
5 nDDr p	60-2	4h0	4h04	4424	4433	1M40	dDl
&El Dpnl cmb	1h6-1	h173	h 6	h1 6	h0h4	6M46	dDl
&El Dpnl cmb	1h6-2	20J4	2h2	247	2403	0M1h	dDl
Fpecmb	164-1	0 6	40h1	4026	414J	M3h	dDl
Fpecmb	164-2	162	1 17	1J07	1 22	hM34	dDl
Hwon8Ccmb	167-1	4h30	h7J4	4204	460	3M21	dDl
Hwon8Ccmb	167-2	26 4	20 4	2hh7	2h02	hM36	dDl
y n8b cmb	16h-1	J427721	J43h 0	Jh7010h	J4 23 6	7M14	dDl
y n8b cmb	16h-2	0J12J06	0Jh2 h0	0Jh60hh	0J4764J	7M60	dDl
tCocmb	11h-1	6hh2J43	667776J	66670h0	6674420	7M12	dDl
tCocmb	11h-2	3743 J	JJ 7 1	J33440	J3 164	1M72	dDl
tpnC	h4-2	3J172	3J16J	3JJ 4	3J0J1	7M40	dDl
tpnC	h6-2	1J3J1 J	1310044	1311h67	137 634	7M40	dDl
tpnC	h -2	4hh4h	4677J	467 h	4hJ 6	7M60	dDl
KpEDTnC	J0-1	2h3	2h7	2J	26h	M03	dDl
Lr wo	276-1	11J22	11JJ3	11 61	11J24	7M14	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	S0232-76	tCl Tpmb Cr Tuwb r :a	NJ
5 8r CTl wb D8 :t&:a	9 y 7U30&	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2720-7 -14:1Ja76a21	&wTwUd8 :uwb r :a	7 4q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	27 -1	36h4	3hJ	3 26	36h6	7M2	dDl
Lr wo	27J-1	4h 17	4h6JJ	4h4J	4h62J	7M2	dDl
LdTGmb	6-1	24 71	2hh401J	2h141 7	2h1h163	1M14	dDl
9 wgCr l cmb	24-2	J 2h23	JJh370	JJ1h0	J 3337	7MJ	dDl
9 wCgwCr l r	hh-2	366JJ	171J4	3 476	3J64	2M0	dDl
9 n8Eeor Cmb	34-1	10037	12JJ2	10 24	10002	0M1J	dDl
9 n8Eeor Cmb	3h-1	16h63	1J762	1 011	1 014	4M01	dDl
9 n8Eeor Cmb	36-1	1JJJ7	130 2	134h6	13206	1M62	dDl
9 n8Eeor Cmb	3 -1	173JJ	173J7	17423	17 33	2M36	dDl
9 n8Eeor Cmb	3J-1	2J0JJ	2374J	2J63	2J 11	1M1h	dDl
u r noEb cmb	1h7-1	36 7	3J44	3644	3 13	1M12	dDl
u r noEb cmb	1h7-2	07J	07h7	0177	07 3	7M4	dDl
u cdkr 8	67-2	337	Jh7	JJ	373	M33	dDl
NGhl DGhpml	01-2	1J0	132	1J0	1J6	2M1J	dDl
NnTwl cmb	03-2	2411J6	203333	20J1 0	203 J6	7M60	dDl
. Ghocmb	170-1	60Jh67J	6404070	6h7J7h4	64426hh	7M36	dDl
. Ghocmb	170-2	07Jh 2	23 J367	07 2JJ7	074hJh6	1M31	dDl
l dwCocmb	4h-1	42 0h41	402J4h3	424 7hJ	42J0713	7M3	dDl
l dwCocmb	4h-2	106162	1046h	10hh63	10h460	7M16	dDl
l r 8 Ccmb	J2-1	J2	173	6	J3	13M04	dDl
l r 8 Ccmb	-2	0	27	1	10	66M16	dDl
l r 8 Ccmb	J-2	06	14	20	24	4hM4h	dDl
l 8dnC	2J-1	24436714	2h JJ36	2h 7J32h	2h02 34h	2Mh	dDl
l 8vr p	17 -1	16	1J0	1h7	16	17M77	dDl
l 8vr p	173-1	1hJ	32	11	122	2 M16	dDl
l nocmb	20-2	42 J4	4261J01	4023434	42J3 70	7M2	dDl
l TpnCTcmb	J6-1	2677J6	2613J2	264 3	2622JJ	7M37	dDl
l TpnCTcmb	JJ-1	2013 76	20J0240	20J141J	20614hh	1M10	dDl
l m8mp	04-1	266h6	0076J	2300J	236J	7M4	dDl
Ar pecmb	1h3-1	J 1h726	J37J3 7	31700h1	J373116	2M1J	dDl
Ar pecmb	1h3-2	0 1J073	066 414	0 J1336	0 22h 0	1M14	dDl
AGw8cmb	270-1	41	032	400	414	hM7	dDl
AGw8cmb	27h-1	1100	377	J6	36	1hM70	dDl
AdC	11J-1	0132	02h3	02h7	0204	1M12	dDl
AdTwCcmb	4 -1	0h622	062 2	04344	0h612	1M6	dDl
RpwCcmb	20J-1	0J671	417J4	03J3	03J61	0M12	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	S0232-76	tCl Tpmb Cr Tu wb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U30&	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja76a21	&wTwUd8 :u wb r :a	7 4q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	h1-2	134	274	2177	2701	0Ml0	dDl
YTTr peomb	1 2-1	14h7	10J0	16 h	1h70	17Ml	dDl
YTTr peomb	1 2-2	6h6	661	2	636	3Mlh	dDl
YTTr peomb	1 6-1	27h7	212h	1 h7	13 h	17M7h	dDl
YTTr peomb	1 6-2	17h17	17J43	17 67	17 76	1M64	dDl
YTTpomb	J3-1	11 1h07J	127J7 12	11343341	1131h021	1Mlh	dDl
YTTpomb	J3-2	11304 1	11J30J2	12741h2	113h66J	7M64	dDl
ZdCd	66-2	1430h	14J1J	14411	14 21	1Ml	dDl
ZqpdnComb	37-1	3h46	170J2	310	36JJ	6Mlh	dDl
ZqpdnComb	31-1	2271	2173	13h7	27J6	6M7	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber Sa	LB126466	OIr Sw&Sa	swl Pw8
Lwe:pwol &:D :a	O3252-0XL7X	DR &mb Rr &uwbr :a	NJ
M&R&pwol &:D :a	H90. 53L	t &m&R. wq&Sa	X
t w&:T:i &r :cqdm&S o:a	2023-0 -14:1Ja05a20	t w&v. &:uwbr :a	0 XcEF. Ud

NwSwbr &S	Hwl	MNp1	MNp2	MNp3	MNpHrwR	MNpEpt	CR&
c&mb &R&mb	2 -2	JJ60	J410	J6X	J642	2U61	qll
cR&b nRy	121-1	1J3	12X	133	14	21U43	qll
cSr R&q	X-2	32	33	23	25	1JUJ	qll
BwS&mb	13X-1	1331X	134X	136X	134 6	1U2J	qll
BwS&mb	13 -1	2414	2400X	24640	24264	1U3	qll
Br Sy&B&mb	5-1	160	146	1J4	163	11U62	qll
B&Ab m&a	205-1	XJ464XJ	X4X 1X	4X2 6JX	X2 2J6	12UJ4	qll
B&Ab m&a	205-2	2X 55	2J5536J	2J30X3X	2 65300	6U11	qll
BSmb &Rr	J1-1	10104	1043	10546	10456	4U04	qll
Mwob &mb	10J-1	X0	33	3J	40	21UX4	qll
Mwob &mb	106-1	3 1	3452	2452	3234	20U1	qll
Mwob &mb	111-1	2X56	2463	1 35	2266	20U36	qll
Mw&q&mb	43-1	53 23	54X23	534	5350J	0UXJ	qll
Mw&q&mb	44-1	162J155	16 11X0	1662235	16X3J62	1U3	qll
MwSenR	12-1	312X361	31JJXX6	3213JJ6	31 X534	1U44	qll
MwSenR	12-2	3 J16	36X46	3 455	3 2J	1U	qll
Mh&nS&Rr	3X-1	13J1J03	13JX1 2	13 33 X	13J011	0U44	qll
Mh&nS&Rr	3X-2	J6X3	J5 J	51 0	J534	2U53	qll
MhSmb &mb	X2-2	1X30	1XX3	1X13	1X32	1U31	qll
Mnew&&	X5-2	350	443	453	442	11U65	qll
MnIIr S	63-2	1663	1X03	1XX0	1X 2	XU23	qll
t yl I Sml &mb	1X6-1	5J3	122X	10X0	10J6	11U45	qll
t yl I Sml &mb	1X6-2	X1	450	453	X00	2U51	qll
FSe&mb	164-1	J42	500	52	J44	6U42	qll
FSe&mb	164-2	360	433	350	354	5U3X	qll
Gwon&R&mb	160-1	10J3	100J	1142	10 J	6U20	qll
Gwon&R&mb	160-2	X4	X40	XJ3	XX	4U15	qll
9n&b &mb	16X-1	J6666JX	J320 3	6 2J00	5200 4	12U3	qll
9n&b &mb	16X-2	346J 46	3 XXJJJ	3J423X3	36JJ556	XU30	qll
DR&o&mb	11X-1	6 4 46	63342J0	X152 4	6051X0	13U22	qll
DR&o&mb	11X-2	J01J54	JJ3030	504J6J	J63264	6U25	qll
D&mR	X4-2	2041X	15J5	200J1	20131	1U30	qll
D&mR	X6-2	366225	360J44	360032	362365	0U53	qll
D&mR	X -2	5XX5	5 20	5314	5X31	2U14	qll
KSyl &mR	J3-1	305	242	2X1	26	13U46	qll
Lrwo	206-1	3000	2512	2523	254X	1U64	qll

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er Sa	LB126466	OI r Sw&aSa	swl Pw8
Lwe:pwb l 8 :D :a	O3252-0XL7X	DR &mb Rr &u wb r :a	NJ
M8R&pwb l 8 :D :a	H9 0. 53L	t A&mR. wq&aSa	X
t w&:T:i A r :cqdmS o:a	2023-0 -14:1Ja05a20	t w&v. A :u wb r :a	0 XcEF. Ub

NwSwb r & S	H wl l	MNp 1	MNp 2	MNp 3	MNp H r wR	MNp E p t	CR&
Lr wo	20 -1	2X2J	24X6	21 J	23J	U4	ql l
Lr wo	20J-1	11636	11124	10502	11221	3U3X	ql l
LA&mAb	6-1	26254J1	235X000	210 1 2	23 21	11U00	ql l
H wgRr l Ab	24-2	1J4 5	1J1501	1 1	1J1466	1U56	ql l
H wRgwRr l r	XX-2	15J4	2005J	15654	15JJ0	1U03	ql l
H n8yeor Rmb	54-1	2J X	2J34	2642	2 J4	4U4	ql l
H n8yeor Rmb	5X-1	366	3 J4	34J4	364X	4U1X	ql l
H n8yeor Rmb	56-1	41X1	3552	4201	411X	2U64	ql l
H n8yeor Rmb	5 -1	2052	221	24 X	2261	JU6X	ql l
H n8yeor Rmb	5J-1	X21J	XJ3X	6110	X 21	U5J	ql l
u r noyb Ab	1X0-1	21 4	226	206	2165	4U61	ql l
u r noyb Ab	1X0-2	13	6J0	633	6 6	XU5X	ql l
u Aqkr 8	60-2	263	22	24	246	U4J	ql l
NhnI l hnSm	31-2	X	52	12X	5	26U15	ql l
Nn&w l Ab	35-2	XX501	XXXXJ	X6 12	X60X	1U06	ql l
EhnoAb	103-1	6X6J302	623J356	X20XXJ1	6004053	11UJ4	ql l
EhnoAb	103-2	2 1J221	300 25	25J1X1X	2502344	XUX1	ql l
pqwRoAb	4X-1	44355 5	4106JX1	3XXX14	4033552	11U0J	ql l
pqwRoAb	4X-2	115265	1334X6	136022	125XJ2	6U56	ql l
pr 8 RAb	J2-1	-26	X	-4	-J	-153U46	ql l
pr 8 RAb	-2	0	3		3	100U0X	ql l
pr 8 RAb	J-2	12	15	22	1J	25U0X	ql l
pA&qnR	2J-1	X1X31 5	X2X0423	X26125	X221633	1U14	ql l
pA&r S	10 -1	11	100	100	106	5U12	ql l
pA&r S	105-1	6	X	J3	X	11U11	ql l
pnoAb	23-2	J 16JX	J6X5XX	JX023J	J62626	1U25	ql l
p&mR&Ab	J6-1	X1564	X2652	X3J46	X2J34	1UJ0	ql l
p&mR&Ab	JJ-1	44546X	4X2 52	4XX4XJ	4X2X 2	0U66	ql l
pm&mS	34-1	41XX64	41X52	41X J5	41X 60	0U04	ql l
i r S&Ab	1X5-1	5003X31	J420264	121X44	J1J1 J0	11U	ql l
i r S&Ab	1X5-2	3314J1X	3 3X 51	3 33 25	3X54 J	6U4	ql l
i hw8Ab	203-1	20J	2J3	2J3	2XJ	16U6	ql l
i hw8Ab	20X-1	2X	42	6X0	06	6U52	ql l
i AR	11J-1	1042	12J3	122X	11J3	10U66	ql l
i A&wRAb	4 -1	254	354	354	360	0UJ	ql l
CSwRAb	23J-1	54	J22J	5 J	J000	2U2	ql l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber Sa	LB126466	OIr Sw&Sa	swl Pw8
Lwe:pwbl &:D :a	O3252-0XL7X	DR &mbRr&uwbr:a	NJ
M&R&pwbl &:D :a	H90. 53L	t A&r&R. wq&Sa	X
t w&:T:i Ar:cqdmS o:a	2023-0 -14:1Ja05a20	t w&v. A&:uwbr:a	0 XcEF. Ub

NwSwbr&S	Hwl l	MNp1	MNp2	MNp3	MNpHrwR	MNpEpt	CRA&
VwRwoAmb	X1-2	420	36	4 0	415	12U34	ql l
Y&&SeAmb	1 2-1	2XJ	3 X	300	311	15U00	ql l
Y&&SeAmb	1 2-2	1X0	1 2	144	1X6	5U4X	ql l
Y&&SeAmb	1 6-1	140J	1333	121	1320	U32	ql l
Y&&SeAmb	1 6-2	5214	10 3J	11021	1032X	5U41	ql l
Y&&SAmb	J5-1	12035 05	1144 525	5456125	10554XJ5	12U11	ql l
Y&&SAmb	J5-2	10X 5J1	11J4 0X	11J501J	1143501	6UX1	ql l
ZARq	66-2	32X4	3214	3024	3164	3UJJ	ql l
ZA&qnRAmb	50-1	156	2052	1J42	156	6U36	ql l
ZA&qnRAmb	51-1	442	333	400	352	13U5X	ql l

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	S0232-7	tCl Tpmb Cr Tuwb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U30I	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja12a21	&wTwUd8 :uwb r :a	7 6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI 0	5 NI 9 rwC	5 NI . I &	RCdT
q8mb cCmb	2 -2	1074J6	101714	101176	107J63	7M26	dDI
qCTb nCh	121-1	E2 16J	E022 J	E41330	E00J10	1M41	dDI
qpl r Ccl	E-2	6707	E301	670	E333	7M33	dDI
Bwpcmb	10E-1	2 47203	2 14J00	2630664	2 1624E	7M46	dDI
Bwpcmb	10 -1	46632E1	46 E734	4J72 3	4 1E 7J	1M67	dDI
Br ph8mb	3-1	J7247	J7472	J70 1	J700J	7M11	dDI
Bdb mTG	273-1	E230440	EE0 021	E44JJJ1	E426E4J	2M2J	dDI
Bdb mTG	273-2	231E7 J	2J4612	231 647	2J3234J	1M47	dDI
Bpmb cCr	J1-1	1J2J	207E0	26J17	22 1	1JM7	dDI
5 wob cmb	17J-1	4442	4 7E	4JJ4	46	4ME	dDI
5 wob cmb	176-1	3E0	17121	17746	3371	0M21	dDI
5 wob cmb	111-1	1 07	0427	1 0J	2236	1M0E	dDI
5 w8lcmb	40-1	4 E4 1	4J72 4	4J43 2	4J7203	7M33	dDI
5 w8lcmb	44-1	J7E 0JJ	31E670	J0711 4	J7310JJ	2M41	dDI
5 wpenC	12-1	0676134	033321J	413J3 2	0304 3E	M06	dDI
5 wpenC	12-2	E0 16	EE446	E4362	E4 7J	1M60	dDI
5 G8hpcCr	0E-1	4J20J26	E6J111	6606J70	E 1031E	1EM	dDI
5 G8hpcCr	0E-2	EE 77	67067	62661	E3E 4	EM3E	dDI
5 Gpmb cmb	E2-2	0E1J34	043JE7	043 JE	0E7E17	7M04	dDI
5 new8T	E3-2	166 200	1 2473E	1 100E2	1 71E67	1MJ	dDI
5 nDDr p	60-2	622J17	620413	62E641	6203E6	7M24	dDI
&hl Dpnl cmb	1E6-1	E06J	E040	E 1J	E4 6	0M0	dDI
&hl Dpnl cmb	1E6-2	2044	2464	2234	206	0M03	dDI
Fpecmb	164-1	44E3	0304	41J4	4132	6M2	dDI
Fpecmb	164-2	1 67	1J3	1 7	1 JJ	EM4J	dDI
Hwon8Ccmb	167-1	461J	4673	4JE1	4630	2M32	dDI
Hwon8Ccmb	167-2	2024	2E2	226	20 2	EM6	dDI
y n8b cmb	16E-1	J10 2E4	J203 22	J2144J3	J13 1EE	7M0E	dDI
y n8b cmb	16E-2	0J 2 72	06J 72E	0J12373	0 37J 3	2M47	dDI
tCocmb	11E-1	6766367	62 232	6207240	6137740	1M6	dDI
tCocmb	11E-2	377763	JJ6633	372J1	J36E2J	7M36	dDI
tpnC	E4-2	1J22	1J14E7	1J73JJ	1J1E 1	7M06	dDI
tpnC	E6-2	0010102	022E3J	00103E0	02J40E	1M44	dDI
tpnC	E -2	J1 E	132	617	6E3	7M64	dDI
KphDTnC	J0-1	237	236	2	2JJ	0M02	dDI
Lr wo	276-1	3667J	3J637	33216	3J1 1	1M47	dDI

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

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Lwe:I wb D8 :t&:a	S0232-7	tCl Tpmb Cr Tuwb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U30I	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2720-7 -14:1Ja12a21	&wTwUd8 :uwb r :a	7 6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI 0	5 NI 9 rwC	5 NI . l &	RCdT
Lr wo	27 -1	J447J	J4E41	J43J3	J4646	7M06	dDl
Lr wo	27J-1	0J00E7	030613	036026	03173J	1MIE	dDl
LdTGmb	6-1	246J12J	24 2243	24146E6	24E16 J	1M01	dDl
9 wgCr l mb	24-2	3177J1	31J367	37201	3174E0	7M31	dDl
9 wCgwCr l r	EE-2	E134E3	E1J 3	E24226	E27J21	7MEI	dDl
9 n8heor Cmb	34-1	1244J	102E	10720	12373	0M20	dDl
9 n8heor Cmb	3E-1	1 4 7	1 4E	1 327	1 12	1M2J	dDl
9 n8heor Cmb	36-1	13337	1377E	13222	13476	2M8	dDl
9 n8heor Cmb	3 -1	17E60	17660	11314	11746	6M12	dDl
9 n8heor Cmb	3J-1	2J664	2JEJ7	2JE07	2JE31	7M24	dDl
u r nohb cmb	1E7-1	36J4	3E0	3664	362J	7M10	dDl
u r nohb cmb	1E7-2	2J	23J	0144	0770	4M46	dDl
u cdkr 8	67-2	40E 7	441221	447E10	40314	7M8J	dDl
NGhl DGhpml	01-2	100	1J0	1E7	1E6	16M0	dDl
NnTwl l cmb	03-2	247134	24032J	24166	241307	7MJ	dDl
. Ghocmb	170-1	EJJ7146	61144 J	E3426E0	E3 3732	2M70	dDl
. Ghocmb	170-2	07J1134	231 17E	0717 J7	0770726	2M4	dDl
I dwCocmb	4E-1	47437J4	41136E1	4202 2J	4100J21	2M24	dDl
I dwCocmb	4E-2	10J413	104E4	10 724	106660	1M44	dDl
I r 8 Cmb	J2-1	1770J	17104	177 1	177J1	7M4J	dDl
I r 8 Cmb	-2	2J7	070	237	231	4M72	dDl
I r 8 Cmb	J-2	17 7	174J	17 1	1760	1M22	dDl
I d8dnC	2J-1	2E2472 1	2E23JJJ3	2E241J63	2E267040	7M10	dDl
I d8vr p	17 -1	077 7J	07E J3	0724J4	072334	7MIE	dDl
I d8vr p	173-1	2J6201	2301 3	23J722	2324	2M70	dDl
I nocmb	20-2	40327EJ	4063320	4423E3J	403 130	7M63	dDl
I TpnCTcmb	J6-1	2 70 1	2 23 1	2J7E17	2 461	1M32	dDl
I TpnCTcmb	JJ-1	240J200	2E1J120	24J J33	24J141J	1M60	dDl
I m8mp	04-1	04E46	26EE6	07140	0741E	7MEE	dDl
Ar pecmb	1E3-1	J7E67EE	J42417J	JE2 2J2	J00EJ1E	2M3	dDl
Ar pecmb	1E3-2	0321 J7	0E6JJE0	063J323	0 23JE4	4M3	dDl
AGw8mb	270-1	263222	2 747J	26306	263666	7M24	dDl
AGw8mb	27E-1	607 33	644013	60J631	60 30	1M76	dDl
AdC	11J-1	24 E	2E1	2E E	2E20	1M33	dDl
AdTwCmb	4 -1	022 7	0234	02J37	02 72	1MIE	dDl
RpwCmb	20J-1	41730	42E22	47 EJ	414EJ	2M26	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

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Lwe:I wb D8 :t&:a	S0232-7	tCl Tpmb Cr T:u wb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U30I	&8mTcnC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja12a21	&wTwUd8 :u wb r :a	7 6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI 0	5 NI 9 rwC	5 NI . I &	RCdT
VwOwocmb	E1-2	6 2746	6 E170	6 0JE	6 066J	7M20	dDl
YTTr pecmb	1 2-1	1232	126	147J	1022	EM2	dDl
YTTr pecmb	1 2-2	E6	77	2J	2J	0M2	dDl
YTTr pecmb	1 6-1	136	167J	27J4	1JJ6	10M12	dDl
YTTr pecmb	1 6-2	17367	1122	11222	11106	1M0	dDl
YTTpcmb	J3-1	111220	112E74E7	114E3J74	112 E40	1M41	dDl
YTTpcmb	J3-2	12161E	1163143	1131713	113217J	1M3	dDl
ZdCd	66-2	16104E	1EJ311	167347	16703J	7M1	dDl
ZqpdnCcmb	37-1	J11	606	J461	363	EM46	dDl
ZqpdnCcmb	31-1	1 77	1373	1JJ4	1J01	6M22	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pa	LB126466	S Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	S0232-73	tCl Tpmb Cr Tu wb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U3h	&8mTcnC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja21a14	&wTwUd8 :u wb r :a	7 Jq. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCcmb	2 -2	36	37	37	32	0M32	dDl
qCTb nCE	121-1	hJ	6	00	h0	02Ml	dDl
qpl r Ccl	h-2	0	2	1	2	h7M77	dDl
Bwpcmb	10h-1	00	177	6	6	h7M77	dDl
Bwpcmb	10 -1	J0	hJ	1 h	176	hJM27	dDl
Br pE8cmb	3-1	h6	h6	h6	h6	7M77	dDl
Bdl b mTG	273-1	h647h h	h666h43	h033h37	hh6J374	2M04	dDl
Bdl b mTG	273-2	2J31667	2J64Jh0	07J3h40	234J6J6	4M16	dDl
Bpmb cCr	J1-1	4 1J	4640	4J40	4 04	2M14	dDl
5 wob cmb	17J-1	2h	10	J	1h	h6M3	dDl
5 wob cmb	176-1	01 h	0204	0273	0276	7M31	dDl
5 wob cmb	111-1	221J	226	2263	22h2	1M07	dDl
5 w8lcmb	40-1	226	2h1	2hh	244	6M47	dDl
5 w8lcmb	44-1	03 62	03 40	036h	03 21	7M14	dDl
5 wpenC	12-1	2 2J210	26376J3	26Jh610	2 71h7h	7M16	dDl
5 wpenC	12-2	23337	074J2	07J7J	0742	1M0h	dDl
5 G8hpcCr	0h-1	12h7433	126J4JJ	122333h	1243661	1M14	dDl
5 G8hpcCr	0h-2	h2	J772	20h	660	hM17	dDl
5 Gpmb cmb	h2-2	1100	1167	114	114	1M16	dDl
5 new8T	h3-2	67	h	47	h2	27M12	dDl
5 nDDr p	60-2	0	667	7	10	M3J	dDl
&El Dpnl cmb	1h6-1	J	J	7	6	J6M07	dDl
&El Dpnl cmb	1h6-2	7	7	0	1	1 0M21	dDl
Fpecmb	164-1	J0	2h	h7	h0	hhM46	dDl
Fpecmb	164-2	27	2	2	24	1hMh	dDl
Hwon8Ccmb	167-1	6	h	177	J1	21M10	dDl
Hwon8Ccmb	167-2	117	127	11	116	4M41	dDl
y n8b cmb	16h-1	J2463h	J13311h	J747J46	J162076	1M02	dDl
y n8b cmb	16h-2	0J1604h	0 24J77	03h 4h7	0J02J6h	0M76	dDl
tCocmb	11h-1	64J3426	6h7J 22	6202044	6417164	2M41	dDl
tCocmb	11h-2	37h163	37403	34 171	31JJJ3	2M06	dDl
tpnC	h4-2	477	46	h2J	46h	10Mh	dDl
tpnC	h6-2	004h	02 J	01J4	0263	2M4J	dDl
tpnC	h -2	1h7	1h6	1 2	1h3	M26	dDl
KpEDTnC	J0-1	2hh	2 3	2h3	264	4M10	dDl
Lr wo	276-1	00	77	6 J	74	0M3	dDl

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Inst Id :P8

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Lwe:l wb D8 :t&:a	S0232-73	tCl Tpmb Cr Tuwb r :a	NJ
5 8r CTl wb D8 :t&:a	9 y 7U3h	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2720-7 -14:1Ja21a14	&wTwUd8 :uwb r :a	7 Jq. FUMd

Nwpwb r Tr p	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	27 -1	6J3	hJ3	61	602	JM1	dDl
Lr wo	27J-1	2J2J	2h J	2 04	2 10	4M6h	dDl
LdTGmb	6-1	2h J4J2	2h34 37	2h2446J	2h6h310	1M40	dDl
9 wgCr l cmb	24-2	1h7	100	17J	101	16M76	dDl
9 wCgwCr l r	hh-2	6	110	37	37	2hM30	dDl
9 n8Eeor Cmb	34-1	1hJ	1h7	142	1h7	hM16	dDl
9 n8Eeor Cmb	3h-1	42	J	42	01	62M33	dDl
9 n8Eeor Cmb	36-1	100	12h	J0	114	20M12	dDl
9 n8Eeor Cmb	3 -1	2h	1	2h	22	21M64	dDl
9 n8Eeor Cmb	3J-1	2h	42	6	44	4 M13	dDl
u r noEb cmb	1h7-1	7	7		2	1 0M21	dDl
u r noEb cmb	1h7-2	7	7	7	7	7M17	dDl
u cdkr 8	67-2	60	h7	6	67	14M7	dDl
NGhl DGhpml	01-2	6	J0	h7	6	2hM17	dDl
NnTwl l cmb	03-2	1227h	11610	127J3	11363	2M62	dDl
. Ghocmb	170-1	646 J16	64 h 20	64h0661	646h 00	7M1	dDl
. Ghocmb	170-2	07776J1	23 h1 3	021073h	07623Jh	4M26	dDl
l dwCocmb	4h-1	423 30	421 132	426176h	42hJ6J0	7M3h	dDl
l dwCocmb	4h-2	10h hh	106603	1446h4	103716	0M10	dDl
l r 8 Ccmb	J2-1	14	-4J	-06	-20	-103M0	dDl
l r 8 Ccmb	-2	0	7	7	1	1 0M21	dDl
l r 8 Ccmb	J-2	14	6	2J	16	63M67	dDl
l 8dnC	2J-1	22JJ3h	22hJ1h	22h3h4	226JJJ	7M	dDl
l 8vr p	17 -1	100	1J0	277	1 2	27M1h	dDl
l 8vr p	173-1	12h	11	177	114	11M1J	dDl
l nocmb	20-2	132 2	1JJ 3	13 7h	132Jh	2M14	dDl
l TpnCTcmb	J6-1	677	h42	6h7	h3	3M7J	dDl
l TpnCTcmb	JJ-1	JJ0	Jh7	1177	34h	14M0J	dDl
l m8mp	04-1	0h732h	0h2 J	0h0436	0h2477	7M0J	dDl
Ar pecmb	1h3-1	J0hJ 3h	JhJ3010	J47 1	J4h1367	1M44	dDl
Ar pecmb	1h3-2	0 h0627	06076 3	0306h3J	0 0602	4M7J	dDl
AGw8cmb	270-1	01	2h7	242	263	1hM26	dDl
AGw8cmb	27h-1	J0	hJ	J00	32	4M12	dDl
AdC	11J-1	6h7	600	6hJ	64	1M3	dDl
AdTwCcmb	4 -1	142	12h	1hJ	142	11M	dDl
RpwCcmb	20J-1	2h	1	J	1	h7M1	dDl

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Lwe:I wb D8 :t&:a	S0232-73	tCl Tpmb Cr T:u wb r :a	NJ
5 8r CTI wb D8 :t&:a	9 y 7U3h	&8mTcnC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2720-7 -14:1Ja21a14	&wTwUd8 :u wb r :a	7 Jq. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI 0	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	h1-2	0	20	27	16	6JM37	dDl
YTTr pecmb	1 2-1	42	6	42	h7	2JMl	dDl
YTTr pecmb	1 2-2	h7	2J	22	00	44M17	dDl
YTTr pecmb	1 6-1	176	17hJ	300	1727	M0	dDl
YTTr pecmb	1 6-2	170h4	1700J	17J21	17h74	2M61	dDl
YTTpcmb	J3-1	11 4674J	11 h0J 6	12020124	11341716	2M	dDl
YTTpcmb	J3-2	121h370	11JJ246	1007632	124434	6M7	dDl
ZdCd	66-2	160	1 7	270	1 3	11M3J	dDl
ZqpdnCcmb	37-1	46	400	4h7	4h7	0M7	dDl
ZqpdnCcmb	31-1	6	32	h	J	16M0	dDl

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJa	LB126466	St pIl iCIJa	wl P8 l N
LI r JDI e t NJ&TJaJ	S0232-7	& PIlbe . piJml e pJa	u
9 Np. iJDI e t NJ&TJaJ	y h 7MB4	TdNiqC. JM OCIJa	1
TI ipJAJcqe pJdOobdqpnJa	2720-7: -14J13a71as6	TI il MdNJml e pJa	7: 3dF UMRn

ul Il e pipl	y l PP	9 u D1	9 u D2	9 u D0	9 u Dy pl .	9 u DF DT	5 . qP
dNe q dpe	2: -2	1477:	10611	102s4	10624	2R:	Q P
d. iqe C. E	121-1	s1:	4: s	432	434	4R24	Q P
dIPp. qO	: s-2	12s	11:	174	11s	3R13	Q P
Bl dpe	10s-1	67 62	62623	67: 3s	61423	1R63	Q P
Bl dpe	10: -1	1744: :	1117 3	17 : 6	17 111	0R17	Q P
BplENdpe	3-1	s67	s03	s12	s0:	4R40	Q P
BqPe biG	273-1	s2: : 013	s0 23: :	s4ss116	s0: 1 74	1R66	Q P
BqPe biG	273-2	2 s6363	2: 17 7	2 4s4s:	2 2: 0s	1R4s	Q P
BlCe q p	1-1	1: 744	21304	24260	217 1	1: R4	Q P
9 l ne dpe	17 -1	21	0	: 3	46	6sR36	Q P
9 l ne dpe	176-1	076:	01 4	011:	0120	1R:	Q P
9 l ne dpe	111-1	2243	207:	22: 2	22: 6	1R2:	Q P
9 l NOdpe	40-1	s777: 7	s74303	s72 24	s72611	7R43	Q P
9 l NOdpe	44-1	s1: 004	s74324	26: : 6s	40777	1R6:	Q P
9 l lr C.	12-1	0434: : 1	0372 40	41s: 637	0 s1: 6	R6	Q P
9 l lr C.	12-2	s0: 66	s1s33	s0003	s2371	2R1:	Q P
9 GNOlq p	0s-1	: 0: 13	363: 2	172ss17	3s600:	R70	Q P
9 GNOlq p	0s-2	: : 61	22	7 6	72s	2R3	Q P
9 GlCe dpe	s2-2	2744	1340	1 : 7	13s2	4R46	Q P
9 Cr l NN	s3-2	1: 60	1 0	1: 17	1: 6	4R3:	Q P
9 Ct tpl	60-2	0424	0624	0004	0467	4R23	Q P
TEPt lCPdpe	1s6-1	44s3	411:	47s3	4212	sR10	Q P
TEPt lCPdpe	1s6-2	1: 67	1: 47	137:	1 72	sR7s	Q P
Ulr dpe	164-1	076:	2 2s	2332	2362	4R1	Q P
Ulr dpe	164-2	10s7	107:	1227	1232	sR12	Q P
HI nONqdpe	167-1	0132	001:	0s26	004s	sR74	Q P
HI nONqdpe	167-2	1667	1: 20	16: 0	16 6	1R3	Q P
h ONe dpe	16s-1	: : 271 6	7s0732	113s4:	: 3642: s	2R63	Q P
h ONe dpe	16s-2	0 03s7	0 12774	0: 0621s	0: 3s373	1R41	Q P
& ndpe	11s-1	s3 2 : 7	60712: 2	620474s	61: 2: 23	2R2	Q P
& ndpe	11s-2	: 27s	6s4:	3s60	3: 3:	7R3:	Q P
&C.	s4-2	40: 2	40s61	40611	40600	7R27	Q P
&C.	s6-2	: 363: s	: 323s6	: : 6s	: 3s33	1R27	Q P
&C.	s: -2	217	216: 2	2706s	21742	0R11	Q P
KIEt iC.	0-1	2: 4	077	263	2 1	sR3	Q P
Lpl n	276-1	: s	3: 6	3770	3s1	7Rs	Q P

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LBJmbe r plJa	LB126466	St plI iCIJa	wI P8I N
LI r JDI e t NJ8TJaJ	S0232-7	&FIIbe . piJmI e pJa	u
9Np. iJDI e t NJ8TJaJ	y h 7MB4	TdNiqC. JM OCIJa	1
TI ipJAJcqe pJdOobdqpnJa	2720-7: -14J13a71as6	TI il MdNJmI e pJa	7: 3dF UMRn

ul II e pipl	y I PP	9uD1	9uD2	9uD0	9uDy pl .	9uDFDT	5 . qP
LpI n	27: -1	: 124	6 46	: 1s	: 740	2R40	OI P
LpI n	27 -1	046 6	00: 71	0s164	04s1:	2R16	OI P
LqGdpe	6-1	2406 76	2s: 7437	2ss74: 3	2s132s3	2R6	OI P
y I g. pPdpe	24-2	1711 : 2	177: 402	336722	177s173	7R1	OI P
y I . gI . pPp	ss-2	3: 66	3: 0 0	344: :	36s73	1R0	OI P
y CNEr np. be	34-1	17223	17746	17146	17147	7R31	OI P
y CNEr np. be	3s-1	14ss7	14s 0	1s704	14: 22	1R4	OI P
y CNEr np. be	36-1	1s330	1676	16040	1610s	1R14	OI P
y CNEr np. be	3: -1	61	3112	4s	303	1R6:	OI P
y CNEr np. be	3 -1	20227	20612	242 7	20: 74	2R26	OI P
mpOnEe dpe	1s7-1	6373	: 10s	6: 42	6323	2Rs	OI P
mpOnEe dpe	1s7-2	212:	2204	2764	2141	4R71	OI P
mqOkpN	67-2	617	s 7	6 7	620	R20	OI P
uGOPt GOIbP	01-2	277	142	142	161	27R31	OI P
uOI PPdpe	03-2	22: s40	227 4	213406	222673	1R3s	OI P
FGOndpe	170-1	s37 133	6s71240	62s360:	6220726	4R3	OI P
FGOndpe	170-2	2 : s2s	071 2s4	0742722	23 2677	2R3	OI P
DOI . ndpe	4s-1	470: 714	4076: 37	4224 3:	41 3s6:	0R07	OI P
DOI . ndpe	4s-2	10: 10s	1064s1	104140	10s317	1R1s	OI P
DpNJ. dpe	2-1	s7	s2	6s	s6	14R47	OI P
DpNJ. dpe	: : -2	:	17	0	:	s7R70	OI P
DpNJ. dpe	: -2	00	2:	2s	2	14R63	OI P
DqNDC.	2 -1	22721341	21 4s073	2143 s34	21: 61s	1R22	OI P
DqNpI	17: -1	100	17	1s7	101	16R76	OI P
DqNpI	173-1	2s	0	6:	s	s1R31	OI P
DOndpe	20-2	46: : ss:	46: : 17	464630s	466: : 04	7R03	OI P
DiIC. idpe	6-1	236: 60	23261:	2320:	230313	7R4	OI P
DiIC. idpe	-1	26 3476	26 7 30	2: 70s: 0	2631231	7R40	OI P
DbNbI	04-1	6404s	s6241	s227:	s: s3	7R2	OI P
cpIr dpe	1s3-1	77s 6s	060: 60	226 33	13 40	2R27	OI P
cpIr dpe	1s3-2	06 632	06 s3: 0	0: 4: 6 3	0: 7: 4s1	7R34	OI P
cGI NNdpe	270-1	0 0	02s	232	000	10R32	OI P
cGI NNdpe	27s-1	: 00	6: s	: 42	: 1:	sR7:	OI P
cq	11 -1	212s	206:	27s7	21 1	: R3	OI P
cqI . dpe	4: -1	17 s4	111	176	17317	2R04	OI P
5II . dpe	20 -1	03: : 2	03636	41: 06	47472	2R6	OI P

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Inst Id :P8

LBJmbe r plJa	LB126466	St plI iCIJa	wl P8 l N
LI r JDI e t NpJ8TJaJ	S0232-7	& FIlbe . piJmI e pJa	u
9 Np. iJDI e t NpJ8TJaJ	y h 7MB4	TdpiqC. JM OCIJa	1
TI ipJAJcqe pJdOobdpnJa	2720-7: -14J13a71as6	TI il MdpJmI e pJa	7: 3dF UMRn

ul II e pipl	y l PP	9 u D1	9 u D2	9 u D0	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	s1-2	37:	310	33:	303	sR04	OI P
YiipIr dpe	1: 2-1	176:	300	6:	3s6	17R66	OI P
YiipIr dpe	1: 2-2	s2	s1:	s61	s0s	4R02	OI P
YiipIr dpe	1: 6-1	1032	14s7	146:	1406	2R14	OI P
YiipIr dpe	1: 6-2	17s: 1	111: 2	17367	17371	2R13	OI P
YiiIdpe	3-1	11207720	11: 0 : 61	11: 76743	11ss 2:	2R46	OI P
YiiIdpe	3-2	11 2s60	11 2: 6	11: : s3	11 73 2	7R2s	OI P
ZqO	66-2	103 4	142 1	10s17	1032s	2R13	OI P
ZdOC. dpe	37-1	s: 71	s430	s36	s: 21	4R16	OI P
ZdOC. dpe	31-1	1232	1000	142s	10s7	sR7s	OI P

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Lwe:I wb D8 :t&:J	S0232-17	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y 7Ua3	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J7aJ04	&wTwUd8 :u wb r :J	7a1q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	11h4	1742	1706	17	6M14	dDl
qCTb nCE	121-1	11	02h	2h	1h6	3aM10	dDl
qpl r Ccl	h-2	6		1	h	6aM1a	dDl
Bwpcmb	10h-1	a7a	1132	172h	177a	13M16	dDl
Bwpcmb	10 -1	14a0	2142	10h7	16h3	2hM16	dDl
Br pE8mb	3-1	7	173	4	h	41M13	dDl
Bdb mTG	273-1	h263 hh	hh4a422	h0 7214	h036107	2M02	dDl
Bdb mTG	273-2	2a24 21	2a40137	2a0a hh	2a0hhhh	7M04	dDl
Bpmb cCr	a1-1	426	46h1	4440	44h4	4M01	dDl
5 wob cmb	17a-1	60	60	00	h0	01M31	dDl
5 wob cmb	176-1	2ah3	00h7	0177	0170	M02	dDl
5 wob cmb	111-1	133h	2030	21a7	21a3	3M11	dDl
5 w8lcmb	40-1	0244	06a7	0131	00 2	M06	dDl
5 w8lcmb	44-1	a 460	3h4 a	ahaa6	a3673	hM4	dDl
5 wpenC	12-1	07h02a0	020766	023hh46	013016h	0M30	dDl
5 wpenC	12-2	47 h	41h26	47 31	4172h	1M76	dDl
5 G8hpCr	0h-1	06ah2	aa7 a	a0776a	a4333	hM3h	dDl
5 G8hpCr	0h-2	h6h1	6240	606a	67aa	6M23	dDl
5 Gpmb cmb	h2-2	h404	hhh4	h 2h	hh 1	2M02	dDl
5 new8T	h3-2	0 0	2a	077	027	14M1a	dDl
5 nDDr p	60-2	2034	246	2h7	24h6	2M04	dDl
&El Dpnl cmb	1h6-1	a0	32	h	a0	17M77	dDl
&El Dpnl cmb	1h6-2	h7	40	0	40	1hM0a	dDl
Fpecmb	164-1	12h	12h	100	12a	0M	dDl
Fpecmb	164-2	h7	4	h0	h7	6M06	dDl
Hwon8Ccmb	167-1	142	32	242	1ha	4aM24	dDl
Hwon8Ccmb	167-2	1a7	1h	100	1h	14M13	dDl
y n8b cmb	16h-1	a 630h	34a1a2	a12h773	3a00 h	1M07	dDl
y n8b cmb	16h-2	0 0464h	0 6h701	06 472	0 2h630	1M13	dDl
tCocmb	11h-1	h333a22	62 7013	6207 11	61663h1	2M0	dDl
tCocmb	11h-2	a 6hh	a h21	aa2314	a 3060	7M0h	dDl
tpnC	h4-2	04a4	002a	0203	00h7	0M03	dDl
tpnC	h6-2	h0702	h20 4	h2h4	h26h1	7M3h	dDl
tpnC	h -2	14 2	14h6	1461	1460	7M1a	dDl
KpEDTnC	a0-1	01	2h6	2a1	2ah	17M41	dDl
Lr wo	276-1	20h6	0112	21 a	2h4a	13M4h	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0232-17	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Ua3	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2720-7 -14:13J7aJ04	&wTwUd8 :uwb r :J	7a1q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	27 -1	1311	2h61	272a	216	16M7	dDl
Lr wo	27a-1	310h	11342	a6h1	3373	1 M0	dDl
LdTGmb	6-1	24h1hh3	24h331	24221a3	2444hhh	7M1	dDl
9 wgCr l mb	24-2	2642	20 h	2373	2642	17M7	dDl
9 wCgwCr l r	hh-2	20	20	2464	2476	2M7a	dDl
9 n8Eeor Cmb	34-1	06	a77	42h	h01	44M2	dDl
9 n8Eeor Cmb	3h-1	0 h	17a0	2h7	h63	aM2	dDl
9 n8Eeor Cmb	36-1	66	10a4	000	3h	6 M4	dDl
9 n8Eeor Cmb	3 -1	41	a6	132	432	63M1	dDl
9 n8Eeor Cmb	3a-1	642	2704	042	1776	a3M	dDl
u r noEb cmb	1h7-1	110	147	14	100	10M0	dDl
u r noEb cmb	1h7-2	4	h0	0	46	1aM1	dDl
u cdkr 8	67-2	2h47	2637	2 7	2646	0M	dDl
NGhl DGhpml	01-2	h7	12h	177	32	41M6	dDl
NnTwl l mb	03-2	10a37	10602	14216	10310	2M7	dDl
. Ghocmb	170-1	6104161	622366	62h030	627h322	1M2	dDl
. Ghocmb	170-2	2321206	232720a	23h46a0	23027h2	7M	dDl
l dwCocmb	4h-1	41h7 34	421 11	412 412	416h076	1M0	dDl
l dwCocmb	4h-2	10200	100012	1042ah	100011	7M0	dDl
l r 8 Cmb	a2-1	-a6	4	-04	-03	-116M	dDl
l r 8 Cmb	-2	7	7	7	7	7M7	dDl
l r 8 Cmb	a-2	6	13	17	12	h M	dDl
l 8dnC	2a-1	0h6032	0 207a	066a02	06h1	2M1	dDl
l 8vr p	17 -1	h7	1h7	6	a3	67M2a	dDl
l 8vr p	173-1	h7	142	6	a6	h6M7	dDl
l nocmb	20-2	07402	07243	016h2	07	2M4a	dDl
l TpnCTmb	a6-1	10 h	2232	1132	1627	06M7	dDl
l TpnCTmb	aa-1	3112	1a674	006	116a4	h1M4h	dDl
l m8mp	04-1	04h 72	043 23	0h7h40	04a6ha	7M4	dDl
Ar pecmb	1h3-1	a740 3a	a0411h2	a07h 70	a20721a	1M	dDl
Ar pecmb	1h3-2	0ha 47	0h 3630	0623603	0h33724	7Mh	dDl
AGw8mb	270-1	2h7	42h	132	2a3	42M0	dDl
AGw8mb	27h-1	h42	aa0	0 h	677	40M3	dDl
AdC	11a-1	2132	20 h	27h7	2276	M3	dDl
AdTwCmb	4 -1	4 h	32	h1	h34	2aM3h	dDl
RpwCmb	20a-1	12h	h	100	044	17aM2	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpwThpJ	swlPw8
Lwe:lwbD8:t&:J	S0232-17	tCl Tpmb CrTuwbr:J	Na
5 8rCTlwbD8:t&:J	9 y 7Ua3	&8mTmC:UwdThpJ	1
&wTr:i :Adbr:qdOmprro:J	2720-7 -14:13J7aJ04	&wTwUd8:uwbr:J	7a1q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwocmb	h1-2	17	37	17	171	3M2	dDl
YTTrpecmb	1 2-1	a0	ha	h7	64	2 Mlh	dDl
YTTrpecmb	1 2-2	22	11	2a	27	41M	dDl
YTTrpecmb	1 6-1	3a0	31	1700	3 a	hM3	dDl
YTTrpecmb	1 6-2	177 6	177 6	17h2	17226	2M4	dDl
YTTpcmb	a3-1	111a 74	110aa333	11h0 ha2	110 142a	1M4	dDl
YTTpcmb	a3-2	1166a 4	11 1402	11hh466	1164h31	7M1	dDl
ZdCd	66-2	4 4	4 a	4a44	4 33	7M2	dDl
ZqpdnCcmb	37-1	h32	a7a	ha0	661	13M7	dDl
ZqpdnCcmb	31-1	177	27a	a0	101	h1M3	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0232-11	tOwTpmb Or Tusb r:J	8N
5 Pr CTI sb DPP:t&:J	9 y 7U37	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J11J06	&sTsUdP:usb r:J	7N2q. FUM

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCcmb	2 -2	464	4N3	h16	437	hM06	dDw
qCTb nCE	121-1	142	16	11	142	1 M0h	dDw
qpwr Ccd	h-2	17		N	N	1NM00	dDw
Bspcmb	10h-1	hhN	46	hh7	h2h	3M06	dDw
Bspcmb	10 -1	N7N	42	h	h	4M07	dDw
Br pEPPmb	3-1	h7	46	h7	43	4M44	dDw
Bcwb mTG	273-1	hh7 027	h4h02h3	h4 0h66	h4 N74N	7M17	dDw
Bcwb mTG	273-2	2 N6h 3	2N4Nh76	2N7703	2N11N2	1M16	dDw
Bpmb oCr	N1-1	44h3	4hh1	47 6	4062	hMN	dDw
5 sob cmb	17N-1	hN	00	00	42	04M04	dDw
5 sob cmb	176-1	0671	0032	0232	042N	4M13	dDw
5 sob cmb	111-1	2h0N	20 6	2076	247	4M34	dDw
5 sPlcmb	40-1	637	6 6	666	6	1M6	dDw
5 sPlcmb	44-1	4hN	4h44h	4h71h	4h446	7M3h	dDw
5 spenC	12-1	070N134	027711h	023N376	01 37 1	4M14	dDw
5 spenC	12-2	47714	47N33	473h7	47621	1M07	dDw
5 GPhpoCr	0h-1	N6 3 6	32 426	3h3127	31N1 4	hM74	dDw
5 GPhpoCr	0h-2	666N	40h	763	7h	hM44	dDw
5 Gpmb cmb	h2-2	1267	10 0	1000	1022	4M0h	dDw
5 nesPT	h3-2	N0	17	40	N	41M13	dDw
5 nDDr p	60-2	210	27 4	22N4	216h	4M3N	dDw
&EwDpnwcmb	1h6-1	2h	2h	h	42	63M2N	dDw
&EwDpnwcmb	1h6-2	00	2	17	20	h1M17	dDw
Fpecmb	164-1	N0	1h7	17N	114	23M1	dDw
Fpecmb	164-2	4	20	0	06	02M30	dDw
HsonPCcmb	167-1	11	6	100	176	02MN	dDw
HsonPCcmb	167-2	147	147	1 7	1h7	11M1h	dDw
y nPb cmb	16h-1	N740067	333314	N76h h0	N706042	7M42	dDw
y nPb cmb	16h-2	0600 0h	0N7376	0 14674	0 1310h	2M06	dDw
tCocmb	11h-1	60 N67N	624N02	62h30 4	623h40	1M1h	dDw
tCocmb	11h-2	N6 712	N32 6N	NN11 2	NN701	1M4	dDw
tpnC	h4-2	1000	121	1061	1074	hMN	dDw
tpnC	h6-2	13 01	13463	13342	13 14	1M27	dDw
tpnC	h -2	h61	677	hh6	h 2	4M20	dDw
KpEDTnC	N0-1	2 4	021	2N4	230	NM1h	dDw
Lr so	276-1	1h22	1h22	1h4h	1h07	7MN4	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0232-11	tOwTpmb OrTusb r:J	8N
5PrCTI sb DPP:t&:J	9 y 7U37	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J11J06	&sTsUdP:usb r:J	7N2q. FUM

8spsb r Tp	9 sww	58l 1	58l 2	58l 0	58l 9 rsC	58l . l &	RCdTw
Lr so	27 -1	1h1	1161	1261	1010	10M3	dDw
Lr so	27N-1	h32N	h 47	6223	h36h	4M10	dDw
LdTGmb	6-1	244h2h	20332h6	241h 27	24277 N	7M36	dDw
9 sgOr wmb	24-2	hhN	h42	61	h 2	6MMN	dDw
9 sOgsOr wr	hh-2	N47	NN0	6	N07	M11	dDw
9 nPEeor Omb	34-1	1hN	22h	1N0	1N3	1 MM0	dDw
9 nPEeor Omb	3h-1	177	17N	6	32	24M7h	dDw
9 nPEeor Omb	36-1	11	1hN	11	101	1NM40	dDw
9 nPEeor Omb	3 -1	42	00	42	03	12M0N	dDw
9 nPEeor Omb	3N-1	132	1h7	1h7	164	14M6N	dDw
u r noEb omb	1h7-1	N7	N	110	30	1NM37	dDw
u r noEb omb	1h7-2	47	2	07	02	21M10	dDw
u dkr P	67-2	N4	N67	N67	Nh6	7M37	dDw
8 GhwDGhpmw	01-2	N0	42	N0	63	04M04	dDw
8 nTswwmb	03-2	12722	11060	12hN3	11331	hM12	dDw
. Ghomb	170-1	616 720	6244N43	6064734	62hN6hh	1M13	dDw
. Ghomb	170-2	2N32164	233N600	2Nh 0h7	2316743	2M12	dDw
I dsComb	4h-1	41h 73h	41h66NN	416400	41h30 4	7M17	dDw
I dsComb	4h-2	107602	10N747	1040 3	1040h1	2M6	dDw
I r PCmb	N2-1	-1	- 6	-01	-06	-174M10	dDw
I r PCmb	-2	7	7	7	7	7M17	dDw
I r PCmb	N-2	14	1h	27	16	13M6N	dDw
I dPdnC	2N-1	231141	23 017	077h6N	236047	1M02	dDw
I dPr p	17 -1	100	100	11	12N	M10	dDw
I dPr p	173-1	h7	hN	7	06	N M0	dDw
I nomb	20-2	27764	21hhN	27001	276h1	0MM6	dDw
I TpmCTomb	N6-1	642	7N	6hN	663	hM1N	dDw
I TpmCTomb	NN-1	2032	222h	22h3	2232	0MMh	dDw
I mPmp	04-1	0h4136	0h6662	0h412	0h433h	7M41	dDw
Ar pemb	1h3-1	N26hN07	N41 12	N0 3666	N0h427N	7M34	dDw
Ar pemb	1h3-2	0hh hN	0 07 hh	0h30714	062 1 6	2M12	dDw
AGsPmb	270-1	21	277	2h7	222	11M46	dDw
AGsPmb	27h-1	442	4hN	477	400	6M30	dDw
AdC	11N-1	161	16h7	1h6	1611	2M67	dDw
AdSomb	4 -1	2hN	06	0N0	006	27M13	dDw
RpsOmb	20N-1	6	h7	hN	hN	14M23	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0232-11	tOwTpmb OrTusbr:J	8N
5RrCTI sb DPr:t&:J	9 y 7U37	&dPnTnC:UsdTnpJ	1
&sTr:i :Adbr:qdOmprro:J	2720-7 -14:13J11J06	&sTsUdPr:usbr:J	7N2q. FUM

8spsbrTrp	9 sww	58I 1	58I 2	58I 0	58I 9rsC	58I . I &	RCdTw
VsCsoomb	h1-2	h0	h0	h	h4	0M14	dDw
YTTrpeomb	1 2-1	hN	h	hN	64	1hM16	dDw
YTTrpeomb	1 2-2	00	00	00	00	7M17	dDw
YTTrpeomb	1 6-1	177N	3h7	112h	172N	NM0	dDw
YTTrpeomb	1 6-2	3Nh4	17 NN	173 1	17h0N	hM03	dDw
YTTpomb	N3-1	110747h1	11h4N314	11461000	1140N733	1M1N	dDw
YTTpomb	N3-2	1167130	11N7hN	1161013	116 066	7M3N	dDw
ZdCd	66-2	0331	0N1	0Nh	0NNN	2M00	dDw
ZqpdnComb	37-1	4hN	4N0	4 h	4 2	2M03	dDw
ZqpdnComb	31-1	h	h	100	34	0hM06	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:a	LB126466	Ct pIl i. I:a	wI P8I N
LI r :DI e t N:&T:a	SS03-2	&FPIlbe Fpi:mI e p:a	us
SNpFi:DI e t N:&T:a	SS03-2	TdNiq F:M O. I:a	1
TI ip:A:cpe p:dOobdpn:a	232-73 714:1Ja1sa42	TI il MdN:mI e p:a	3s4SS0Wh

ul ll e pipl	5 I PP	SuD1	SuD2	SuD-	SuD5 pl F	SuD9 DT	RFqP
dNe qFpe	2 72	211-313	2132 6	23JJ144	2134J	3U4	O P
dFiqe . Fy	12171	2 6 h61	26J36J	2s31426	2 h-22s	2U36	O P
dIPpFqO	h72	231-	12-2	3hh3	126h	1U3-	O P
Bl lqe	1-h71	-331642	2J 3- h	-32J14J	-333-sJ	3UJs	O P
Bl lqe	1- 71	h126J6J	4JJ132	h2461-h	h121-	2U4J	O P
BplyNqe	J71	6J6-44	6JJs1J	6J -3h	6J s2-	3U26	O P
BqPe biE	23J71	h-h 2-6	h2Jh16-	h-2 4-1	h-26613	3Uhs	O P
BqPe biE	23J72	2 4113h	2 42642	26h4h h	2 12 4	1Us6	O P
Bl. e qFp	s171	4126	4226	4142	416h	1U2J	O P
SI ne qe	13s71	h44s2	h4441	h-ss3	h426s	3U62	O P
SI ne qe	13671	J2h-	6J66	64s6	h6s	1UJ1	O P
SI ne qe	11171	6 sJ62	6 4J42	6J 6 J	6s-s61	1U	O P
SI NQqe	4-71	-Jss6h3	432-42s	41331-2	43- 43-	1U41	O P
SI NQqe	4471	64J6 s-J	64J -6h-	6h4444J	6h12s66-	3U42	O P
SI Ir. F	1271	2J41231	-3h26 -	-3J6411	-3-33Jh	2U64	O P
SI Ir. F	1272	4342-	-JJhh	414s4	43621	1UJ-	O P
SENIqFp	-h71	h-1J3-	h2 2-2	h2ssss	h2J-41	3U4h	O P
SENIqFp	-h72	-442	- h1	-41	-h-	hU2h	O P
SEI. e qe	h272	64h4	6ssJ1	64J4	-J46	3Uh	O P
S. r I N	hJ72	14634h1	14-1h4	14h1 62	144 J23	1U32	O P
S. t t pI	6-72	11-s J-2	113h31s6	13J44 s6	1112 6-h	2U3s	O P
TyPt I. Pqe	1h671	h	s--	hhs	22	23U36	O P
TyPt I. Pqe	1h672	--	-6	-33	--4	JUJs	O P
GIr qe	16471	11	12h	1J2	144	2sU46	O P
GIr qe	16472	6	s3	-	-	JU3J	O P
HI n. NqFqe	16371	6	62h	642	6 s	11U42	O P
HI n. NqFqe	16372	h13	46-	4 3	4s1	hU2h	O P
K. Nq qe	16h71	s4J Js3	s2-h12s	s442s4s	s-J1Jsh	1U6h	O P
K. Nq qe	16h72	- 6 1-	-s42-h-	- s13s-	- J6shs	1U3h	O P
&Fnqe	11h71	61J s2J	63hJJ62	61J6J12	61h1h6s	1U2J	O P
&Fnqe	11h72	sh216	shs2Js	sh14ss	sh-Js4	3U44	O P
&. F	h472	s666J43	s64J2s4	sh 3362	s62s 62	3U63	O P
&. F	h672	1hh-Jh66h	1hhs-14h-	1hs666s42	1h66-1-23	1U1-	O P
&. F	h 72	-J2J3hh	43s31 s	-J-2163	-Js346h	2U1	O P
glyt i. F	s-71	2J3	2J2	261	2s1	6U1s	O P
LpI n	23671	11 s334-	123 s- -	11Js 6 J	11J4s6Js	1U2s	O P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:a	LB126466	Ct pIl i. I:a	wI P8I N
LI r :DI e t Np:&T:a	SS03-2	&FPIlbe Fpi:mI e p:a	us
SNpFi:DI e t Np:&T:a	SS03-2	TdNiq F:M OI. I:a	1
TI ip:A:cqe p:dOobdpn:a	232-73 714:1Ja1sa42	TI il MdNp:mI e p:a	3s4SS0Uh

ul Il e pipl	5 I PP	SuD1	SuD2	SuD-	SuD5 pl F	SuD9 DT	RFqP
LpI n	23 71	132h- h2	132 3s6h	1342sJ-4	13-1 sh3	3UJ4	OI P
LpI n	23s71	4 4-- 4s	4 h2Jh1-	4 h2s416	4 4J 226	3U12	OI P
LqEdpe	671	2-hJ6-3	2-23s2s	24- 11J	2- 2h26	2Uh3	OI P
5 I kFpPdpe	2472	2J4h16h4	2JJ -s	2J6 12h2	2J6JsJ2	3Uss	OI P
5 I FkI FpPp	hh72	-s sJ4-	-J-366s	-sJJ3 3	-J32sJ4	3U6	OI P
5 . NyrnpFbe	J471	J-6 ss6	Jh hh36	J6434hh	Jh2 J4J	1U4J	OI P
5 . NyrnpFbe	Jh71	1-s1 s-J	1-J22hJ1	1412 1J6	1-Jhhs h	1U1-	OI P
5 . NyrnpFbe	J671	1h36-13h	1h-J4 43	1h4611J4	1h-36-46	1UJJ	OI P
5 . NyrnpFbe	J 71	s4-3-h4	shhJs -	s43 6 4	s46hJ6	3UJ	OI P
5 . NyrnpFbe	Js71	22 -32	22-h Jh	22sh6331	22662-2s	1U1s	OI P
mp. nyedpe	1h371	22	263	-23	26J	1 UhJ	OI P
mp. nyedpe	1h372	4-	43	-	43	sUJ2	OI P
mqOvpN	6372	-6JJ36	-6s442	-6 s-h	-6s 2s	3U2J	OI P
uE. PtE. IbP	-172	21-41	213s2	23sJ3	2113h	1U3	OI P
u. il PPdpe	-J72	J--36h-	J-641h	J2h 416	J-1 43s	3UhJ	OI P
9E. ndpe	13-71	hsss4s2	hJ36642	6344 -2	hJ4661s	1U44	OI P
9E. ndpe	13-72	2 -331	2 6414s	2 hhJ34	2 h332-	3U6h	OI P
DOI Fndpe	4h71	414ss1h	41h- 41	41-3612	4144-sJ	3U2J	OI P
DOI Fndpe	4h72	1-41h	1-4JJ	1--1 1	1-413s	3U6s	OI P
DpNpFdpe	s271	4s1-6	4ss s	4 J23	4s-11	1U34	OI P
DpNpFdpe	72	14s	14s3	1-6-	144-	4Us1	OI P
DpNpFdpe	s72	4s4J	4s1J	h36	4J12	2U6	OI P
DqND F	2s71	1J2442-	1Jhh163	1Js33Jh	1Jh-226	1U4-	OI P
DqNpI	13 71	-444-h2	--J223-	-44h144	-42 2--	3UsJ	OI P
DqNpI	13J71	-2 6-32	-2s2322	-2 -hhs	-2 2J4	3U1-	OI P
D. ndpe	2-72	h24 4 1J	h2h6163-	h2 -24JJ	h2hsJ63	3U2h	OI P
DiI. Fidpe	s671	1J -hhh-	231J46sh	231J-34J	233413J6	1UJ2	OI P
DiI. Fidpe	ss71	1 11hJ6s	1 41J-h--	16s 6--3s	1 1- 21 6	1UhJ	OI P
DbNvI	-471	643232	6-s-21	6-63J3	6-s234	3UJ2	OI P
cpIrdpe	1hJ71	s6h462	s--13 1	s64123s	sh42-32	2U14	OI P
cpIrdpe	1hJ72	-66s41	- 6666s	- 1 s 1	- 1 6h2	1UJ2	OI P
cEI NNpe	23-71	2s J 3J	2s 44-h	2s hsJs	2s 66s1	3U3J	OI P
cEI NNpe	23h71	662 2Jh	6 32J-h	664-633	66h J4-	3U63	OI P
cqF	11s71	226- 2	21JhJs2	21J- 43	221 s16	1UJ	OI P
cqI Fdpe	4 71	- 4- 23	- J1- 2	- J 43	- 4JJ	3Us	OI P
RII Fdpe	2-s71	J4s41 -	J2h22JJ	J4--s1-	J-J33Jh	1UJ3	OI P

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:a	LB126466	Ct pIl i. I:a	wI P8 I N
LI r :DI e t Nb:&T:a	SS03-2	&FPIIbe Fpi:mI e p:a	us
SNbFi:DI e t Nb:&T:a	SS03-2	TdbiqF:M O. I:a	1
TI ip:A:cqe p:dOobdpn:a	232-73 714:1Ja1sa42	TI il MdbN:mI e p:a	3s4SS0Uh

ul Il e pipl	5 I PP	SuD1	SuD2	SuD-	SuD5 pl F	SuD9 DT	RFqP
0I FI ndpe	h172	hJ3 --	hsJJh4	hJ3Jh6	hJ3h4s	3U3J	O P
YiipIr dpe	1 271	1h3	242	11	16J	-sU23	O P
YiipIr dpe	1 272	s	111	61	s-	-3Uh	O P
YiipIr dpe	1 671	1--24	1-31h	12-h6	12sJs	-Us-	O P
YiipIr dpe	1 672	1hhs	1h6s2	1h4-1	1hh6	3Us1	O P
YiiIdpe	sJ71	11614h34	11h66611	114h-1hJ	11h44 hs	3U2	O P
YiiIdpe	sJ72	11 316s	11J3-ss	11 6 1	11 J3J1	3Us	O P
ZqFO	6672	12s2-s4	126636h	1244462	1264-34	1Uh3	O P
ZqO Fdpe	J371	4 42s-	4 116h-	4 h1 -s	4 -h413	3U44	O P
ZqO Fdpe	J171	1313-h2	133J-s4	1324h J	1314 2	3Us4	O P

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Inst Id :P8

LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DP t& J	SSB032	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DP t& J	SSB032	&dPmTC. RsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J23J12	&sTsRdP u sb r J	0NFSSBUM

8spsb r Tr p	9 sww	S8l 1	S8l 2	S8l 3	S8l 9 r s.	S8l y l &	5 . dTw
qPmb c omb	27-2	164	160	134	1F2	10M72	dDw
q. Tb C. h	121-1	6F0	642	N33	70N	1FM2:	dDw
qpwr . cl	7F-2	7	F	7	6	1NM23	dDw
Bspomb	13F-1	242	267	200	236	14M26	dDw
Bspomb	137-1	37F	42F	3FN	3N6	NM:	dDw
Br phPmb	: -1	12F	: 2	101	106	1FMN3	dDw
Bcwb mTE	20: -1	F6466F3	F4FN712	F61076:	FF7204F	1M7:	dDw
Bcwb mTE	20: -2	2: 43324	2N46: 3F	2712070	2N34110	4M10	dDw
BpCb c r	N1-1	4201	410:	40: 2	4134	1M41	dDw
Ssob omb	10N-1	46	FN	2F	43	3: M1	dDw
Ssob omb	106-1	337F	3326	31F:	32N7	3M4F	dDw
Ssob omb	111-1	2422	23F4	226:	234N	3M2N	dDw
SsPlomb	43-1	F6F	4: 7	3: 4	4NF	17M7	dDw
SsPlomb	44-1	47647	43N01	440: N	4F1N2	4M74	dDw
SspeC.	12-1	2F: F: : N	2F2F173	2F61: : 7	2F610F6	1M3N	dDw
SspeC.	12-2	2: 7F6	303N2	2: 4N0	2: N73	1M4F	dDw
SEPOpc r	3F-1	464120	460FN0	461027	461: 0:	0M42	dDw
SEPOpc r	3F-2	3217	2: : 2	312F	3112	3M64	dDw
SEpCb omb	F2-2	1127	10: 0	11N0	1132	4M00	dDw
SCesPT	F: -2	: 3	123	N0	: :	22M4F	dDw
SCDDr p	63-2	1670	1F77	1343	1F30	11M00	dDw
&hwDpOwomb	1F6-1	0	N	0	3	173M21	dDw
&hwDpOwomb	1F6-2	0	3	3	2	N6M00	dDw
Upeomb	164-1	42	42	33	3:	12M3N	dDw
Upeomb	164-2	23	20	17	20	16M6F	dDw
GsoCPe omb	160-1	7F	: 2	: 2	N6	11M1N	dDw
GsoCPe omb	160-2	70	110	120	100	26M46	dDw
HCPb omb	16F-1	N2642NF	N311N02	N4F70N3	N3443: 0	1M20	dDw
HCPb omb	16F-2	3N: FN10	3N30: : 3	3F36: 2F	37F4F76	FM0:	dDw
t. oomb	11F-1	641: 260	627N: 11	6416N37	637166:	1M26	dDw
t. oomb	11F-2	: 0: 776	N: : : 44	N4NN: :	NN6206	3M0:	dDw
tpC.	F4-2	6N:	6N:	611	663	6M77	dDw
tpC.	F6-2	N70:	: 2: 3	74: 3	N4: N	10MM1	dDw
tpC.	F7-2	217	2F0	300	2F6	16M41	dDw
KphDTC.	N3-1	26F	264	247	2F:	3M77	dDw
Lr so	206-1	163:	1N: F	173:	17FN	7M33	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DP t& J	SSB032	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DP t& J	SSB032	&dPmTC. RsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J23J12	&sTsRdP usb r J	0NFSSBUM

8spsb r Tr p	9 sww	S8l 1	S8l 2	S8l 3	S8l 9 r s.	S8l y l &	5 . dTw
Lr so	207-1	202:	1400	1311	1FN0	24M7F	dDw
Lr so	20N-1	7140	6F40	6362	66N1	6M1	dDw
LdEomb	6-1	24NNF67	237N2: 6	2474732	24471: N	2M4F	dDw
9 sg. r womb	24-2	142F	12N3	: 0N	1206	22M1F	dDw
9 s. gs. r wr	FF-2	2N3	2N3	173	247	2FM7F	dDw
9 OPheor . mb	: 4-1	11: 2	N67	10: 2	10F0	1FMNF	dDw
9 OPheor . mb	: F-1	14: 2	110N	1367	1322	14M7:	dDw
9 OPheor . mb	: 6-1	1FN3	1642	14F0	1FF:	6M31	dDw
9 OPheor . mb	: 7-1	7N3	742	6F0	72F	: M41	dDw
9 OPheor . mb	: N-1	300:	2134	17F0	22: N	2NM0N	dDw
u r Cohb omb	1F0-1	13	13	20	16	24M76	dDw
u r Cohb omb	1F0-2	0	0	3	1	173M21	dDw
u cdkr P	60-2	67	F0	60	F:	14M2F	dDw
8 EOwDEOpmw	31-2	F0	7F	42	F6	31M22	dDw
8 CTswwomb	3: -2	1371F	13N4:	13373	13646	1MM0	dDw
y ECoomb	103-1	6244027	6236342	64433F7	6307: 0:	1MM6	dDw
y ECoomb	103-2	30F71: 7	2: NN21:	2N12613	2: F2677	4M27	dDw
l ds. oomb	4F-1	41N72F6	4270FN0	413N471	41: N76:	1M7:	dDw
l ds. oomb	4F-2	13: 403	13F762	126042	13373F	FM16	dDw
l r P . omb	N2-1	-2F	10	4	-4	-4: 7M7	dDw
l r P . omb	77-2	7	0	0	2	173M21	dDw
l r P . omb	7N-2	14	12	13	13	7M6:	dDw
l dPdC.	2N-1	22F30N	21: N: F	220704	221: 6:	1M32	dDw
l dPr p	107-1	30N	317	3FN	32N	NM17	dDw
l dPr p	10: -1	2F0	32F	32F	300	14M43	dDw
l Coomb	23-2	334: 2	31477	31F: 4	321NN	3M71	dDw
l TpC. Tomb	N6-1	F133	14: 2	1N1N	2N14	71M7:	dDw
l TpC. Tomb	NN-1	10: 6F	2316:	11607	1F247	4FM04	dDw
l mPmp	34-1	3F7704	3F2: 06	361161	3F72F7	1M16	dDw
Ar peomb	1F: -1	N427N62	N4F3N2N	NF13: FF	N46F21F	0M72	dDw
Ar peomb	1F: -2	37473: 7	370: : NN	3F31006	36627: 7	3M16	dDw
AEs PPomb	203-1	NFN	N42	N17	N3:	2M70	dDw
AEs PPomb	20F-1	1: 0:	1: F0	1N42	1: 00	2MMN	dDw
Ac	11N-1	: 00	NF0	11F:	: 70	17M0N	dDw
AdS. omb	47-1	62F	2: 2	2F0	3N:	F2MM6	dDw
5 ps. omb	23N-1	4: 2	4FN	417	4F6	NM2F	dDw

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Inst Id :P8

LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DPP t& J	SSB032	t. wTpmb . r Tu sb r J	8N
SPr . Tl sb DPP t& J	SSB032	&dPmTC. RsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J23J12	&sTsRdP u sb r J	0NFSSBUM

8spsb r Tp	9 sww	S8l 1	S8l 2	S8l 3	S8l 9 r s.	S8l y l &	5 . dTw
Vs. soomb	F1-2	37	30	20	2:	2: M04	dDw
YTTr peomb	172-1	FN	10N	2F	64	6FM06	dDw
YTTr peomb	172-2	33	17	22	24	3FM24	dDw
YTTr peomb	176-1	: 67	: 33	: F0	: F0	1M7F	dDw
YTTr peomb	176-2	10F60	10176	101N2	10306	2M13	dDw
YTTpomb	N: -1	113F2F37	1204266:	1136N441	11FN7NN2	3M40	dDw
YTTpomb	N: -2	1206: 72	1200F7:	112: 664	117: 072	3M04	dDw
Zc d	66-2	220	243	2N3	24:	12MN7	dDw
ZqpdC. omb	: 0-1	767	70N	767	747	4MF1	dDw
ZqpdC. omb	: 1-1	133	1N3	167	161	1FMN0	dDw

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Prep Standard - Chemical Standard Summary

Order ID : O3292

Test : Metals CLP MS

Prepbatch ID : PB153925,

Sequence ID/Qc Batch ID: LB126466,

Standard ID :
MP74325,MP75788,MP75814,MP75816,MP75962,MP76115,MP76116,MP76125,MP76127,MP76128,MP76132,MP76135,MP76136,MP76237,MP76238,MP76239,MP76240,MP76241,MP76242,MP76243,MP76244,MP76245,

Chemical ID :
M4408,M4657,M4707,M4718,M4768,M4825,M4874,M4875,M4876,M4877,M4880,M4881,M4882,M4883,M4884,M4885,M4886,M4888,M4889,M4891,M5019,M5020,M5101,M5184,M5192,M5193,M5200,M5201,M5224,M5227,M5229,M5230,M5231,M5244,M5245,M5289,M5293,M5298,M5301,M5387,M5448,M5449,M5468,M5469,M5473,M5521,M5555,M5575,M5587,M5597,M5599,M5603,M5606,W2606,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP74325	03/09/2023	09/07/2023	Al-Terek Isaac	None	None	Sarabjit Jaswal 03/23/2023

FROM 1250.00000ml of M5449 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP75788	06/12/2023	06/30/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 06/13/2023

FROM 25.00000ml of M5555 + 4925.00000ml of W2606 + 50.00000ml of M5575 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3963	CONC.LCSW SPIKE	MP75814	06/12/2023	06/30/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 06/13/2023

FROM 0.05000ml of M4718 + 0.05000ml of M4768 + 0.05000ml of M4825 + 0.05000ml of M4874 + 0.05000ml of M4876 + 0.05000ml of M4877 + 0.05000ml of M4881 + 0.05000ml of M4885 + 0.05000ml of M4889 + 0.05000ml of M5229 + 0.05000ml of M5230 + 0.05000ml of M5469 + 0.10000ml of M4657 + 0.10000ml of M5224 + 0.10000ml of M5289 + 0.10000ml of M5521 + 0.25000ml of M4707 + 0.25000ml of M4883 + 0.25000ml of M4886 + 0.25000ml of M4888 + 0.25000ml of M4891 + 0.25000ml of M5192 + 0.50000ml of M4884 + 0.50000ml of M5387 + 1.00000ml of M5298 + 1.25000ml of M4875 + 1.25000ml of M4880 + 1.25000ml of M4882 + 2.50000ml of M5193 + 2.50000ml of M5200 + 2.50000ml of M5201 + 2.50000ml of M5468 + 2.50000ml of M5555 + 224.25000ml of W2606 + 5.00000ml of M5575 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
870	ICPMS SPIKE SOL.B	MP75816	06/12/2023	06/30/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 06/13/2023

FROM 0.45000ml of M4883 + 5.00000ml of M4408 + 5.00000ml of M5101 + 39.55000ml of MP75788 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP75962	06/23/2023	12/10/2023	Al-Terek Isaac	None	None	Sarabjit Jaswal 06/23/2023

FROM 1250.00000ml of M5587 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP76115	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 25.00000ml of M5603 + 4925.00000ml of W2606 + 50.00000ml of M5597 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP76116	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 1.00000ml of M5289 + 2.50000ml of M5201 + 2.50000ml of M5298 + 5.00000ml of M5193 + 5.00000ml of M5200 + 5.00000ml of M5468 + 79.00000ml of MP76115 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3958	ICV(SFAM)	MP76125	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 2.00000ml of M5293 + 98.00000ml of MP76115 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP76127	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 10.00000ml of M5244 + 90.00000ml of MP76115 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP76128	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 10.00000ml of M5244 + 10.00000ml of M5245 + 80.00000ml of MP76115 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP76132	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 0.01000ml of M5468 + 9.99000ml of MP76115 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP76135	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 2.00000ml of M5231 + 2.00000ml of MP76132 + 96.00000ml of MP76115 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP76136	07/03/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/03/2023

FROM 5.00000ml of M5597 + 75.00000ml of M5448 + 170.00000ml of MP76115 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP76237	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 1.00000ml of M4875 + 1.00000ml of M4884 + 1.00000ml of M4886 + 1.00000ml of M5229 + 1.00000ml of M5230 + 1.90000ml of M5289 + 10.00000ml of M4888 + 10.00000ml of M5192 + 10.00000ml of M5599 + 2.00000ml of M5019 + 2.00000ml of M5020 + 2.50000ml of M5473 + 4.00000ml of M4881 + 4.00000ml of M5387 + 4.90000ml of M5201 + 4.90000ml of M5298 + 5.00000ml of M5606 + 50.00000ml of M5301 + 827.00000ml of W2606 + 9.00000ml of M4891 + 9.00000ml of M5184 + 9.00000ml of M5521 + 9.90000ml of M5193 + 9.90000ml of M5200 + 9.90000ml of M5468 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP76238	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 48.50000ml of W2606 + 50.00000ml of MP76237 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP76239	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 73.50000ml of W2606 + 25.00000ml of MP76237 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3954	S4(SFAM,6020,200.8)	MP76240	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 86.00000ml of W2606 + 12.50000ml of MP76237 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3(SFAM, 6020,200.8)	MP76241	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 88.50000ml of W2606 + 10.00000ml of MP76238 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP76242	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.05000ml of M4768 + 0.05000ml of M4825 + 0.05000ml of M4874 + 0.05000ml of M4876 + 0.05000ml of M4877 + 0.05000ml of M4881 + 0.05000ml of M4885 + 0.05000ml of M4889 + 0.05000ml of M5184 + 0.05000ml of M5229 + 0.05000ml of M5230 + 0.05000ml of M5469 + 0.10000ml of M4657 + 0.10000ml of M4891 + 0.10000ml of M5224 + 0.10000ml of M5289 + 0.10000ml of M5521 + 0.25000ml of M4883 + 0.25000ml of M4886 + 0.25000ml of M4888 + 0.25000ml of M5192 + 0.25000ml of M5227 + 0.25000ml of M5298 + 0.50000ml of M4884 + 0.50000ml of M5387 + 1.25000ml of M4875 + 1.25000ml of M4880 + 1.25000ml of M4882 + 2.50000ml of M5193 + 2.50000ml of M5200 + 2.50000ml of M5201 + 2.50000ml of M5468 + 2.50000ml of M5606 + 225.15000ml of W2606 + 5.00000ml of M5599 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP76243	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 98.00000ml of W2606 + 0.50000ml of MP76242 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP76244	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 88.50000ml of W2606 + 10.00000ml of MP76243 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP76245	07/07/2023	07/24/2023	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Bin He 07/12/2023

FROM 0.50000ml of M4875 + 0.50000ml of M4884 + 0.50000ml of M4886 + 0.50000ml of M5019 + 0.50000ml of M5229 + 0.50000ml of M5230 + 1.00000ml of M5020 + 10.00000ml of M5599 + 12.45000ml of M5298 + 12.50000ml of M5469 + 2.00000ml of M4881 + 24.95000ml of M5193 + 24.95000ml of M5200 + 24.95000ml of M5201 + 24.95000ml of M5468 + 25.00000ml of M5301 + 4.50000ml of M4891 + 4.50000ml of M5184 + 4.50000ml of M5521 + 4.95000ml of M5289 + 5.00000ml of M5192 + 5.00000ml of M5606 + 805.80000ml of W2606 = Final Quantity: 1000.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	P2-MEB683701	08/21/2023	09/25/2020 / jaswal	08/27/2019 / BIN	M4408

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	P2-V685591	12/05/2023	11/21/2020 / bin	08/21/2020 / bin	M4707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Manganese, Mn, 500 ml, 1000 PPM	070620	07/06/2023	01/14/2021 / bin	01/12/2021 / bin	M4718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Boron (B)	031921	03/19/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	S2-MEB701384	01/20/2025	03/14/2022 / bin	03/14/2022 / bin	M5101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5229

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	073021	07/30/2024	05/08/2023 / jaswal	07/05/2022 / bin	M5230

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	R2-MEB695520	11/26/2023	11/27/2022 / jaswal	07/06/2022 / jaswal	M5231

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	05/01/2022 / jaswal	04/01/2022 / jaswal	M5301

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	S2-MEB709511	03/06/2024	03/07/2023 / jaswal	04/01/2022 / jaswal	M5448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	09/07/2023	03/07/2023 / Al-Terek	02/24/2022 / Al-Terek	M5449

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	11/26/2023	05/24/2023 / Al-Terek	02/24/2022 / Al-Terek	M5555

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/09/2023	06/09/2023 / Al-Terek	01/13/2023 / Al-Terek	M5575

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

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CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	S2-MEB701384
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.01 ± 0.26 µg/mL**	**Chromium, Cr**	**200.0 ± 1.0 µg/mL**
Cobalt, Co	**500.0 ± 2.3 µg/mL**	**Copper, Cu**	**250.2 ± 1.0 µg/mL**
Iron, Fe	**1 000 ± 4 µg/mL**	**Manganese, Mn**	**500.2 ± 2.0 µg/mL**
Nickel, Ni	**500.1 ± 2.3 µg/mL**	**Silver, Ag**	**50.01 ± 0.22 µg/mL**
Vanadium, V	**500.0 ± 2.2 µg/mL**	**Zinc, Zn**	**500.1 ± 2.1 µg/mL**

Density: 1.069 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 20, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	P2-MEB683701
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**100.0 ± 0.7 µg/mL**	**Arsenic, As**	**40.00 ± 0.21 µg/mL**
Cadmium, Cd	**49.98 ± 0.22 µg/mL**	**Lead, Pb**	**20.00 ± 0.09 µg/mL**
Selenium, Se	**10.00 ± 0.06 µg/mL**	**Thallium, Tl**	**50.02 ± 0.26 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 21, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 21, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

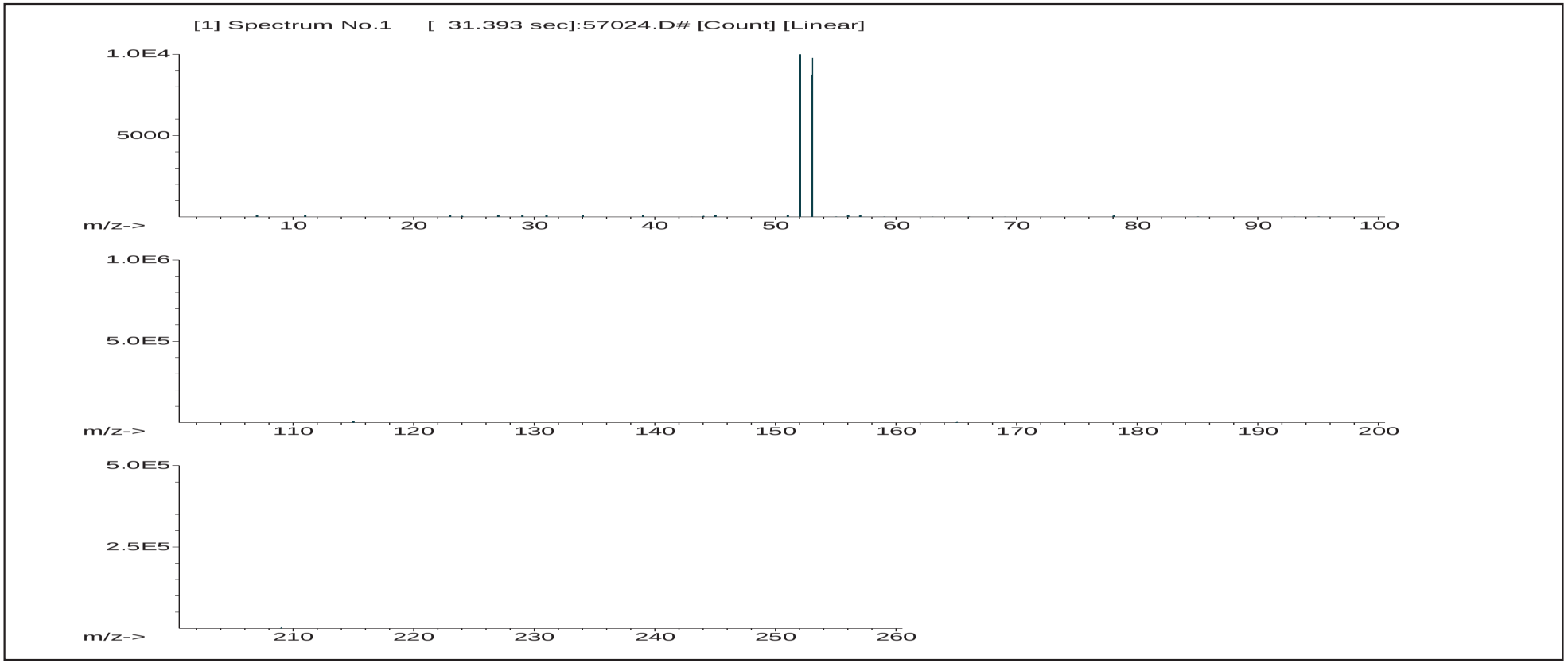
CERTIFIED WEIGHT REPORT:

515

		Lot #	Solvent:
Part Number:	**58024**	19410105	Nitric Acid
Lot Number:	**082620**		
Description:	**Chromium (Cr)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	082623		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Chromium (III) nitrate nonahydrate (Cr)	58124	121619	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



516

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	P2-V685591
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9939%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **1002 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000273	M	Eu	<	0.000118	O	Na		0.010915	M	Se	<	0.001167	M	Zn	<	0.006080
M	Al		0.006218	M	Fe		0.023106	M	Nb	<	0.001479	O	Si		0.036363	M	Zr	<	0.003181
M	As	<	0.000540	M	Ga	<	0.009451	M	Nd	<	0.000118	M	Sm	<	0.000118				
M	Au	<	0.000191	M	Gd	<	0.000118	M	Ni	<	0.003169	M	Sn	<	0.000733				
M	B	<	0.002950	M	Ge	<	0.000434	M	Os	<	0.000150	M	Sr		0.000060				
M	Ba	<	0.001024	M	Hf	<	0.000118	O	P	<	0.056000	M	Ta	<	0.000118				
M	Be	<	0.000118	M	Hg	<	0.000170	M	Pb		0.000241	M	Tb	<	0.000118				
M	Bi	<	0.000363	M	Ho	<	0.000118	M	Pd	<	0.000140	M	Te	<	0.002236				
O	Ca		0.011869	M	In	<	0.000118	M	Pr	<	0.000118	M	Th	<	0.000118				
M	Cd	<	0.000145	M	Ir	<	0.000118	M	Pt	<	0.000118	M	Ti		0.001386				
M	Ce	<	0.000245	M	K		0.002082	M	Rb	<	0.000118	M	Tl	<	0.000118				
M	Co	<	0.000119	M	La	<	0.000118	M	Re	<	0.000118	M	Tm	<	0.000118				
O	Cr		0.017206	M	Li	<	0.000501	M	Rh	<	0.000118	M	U	<	0.000395				
M	Cs		0.000477	M	Lu	<	0.000118	M	Ru	<	0.000118	s	V	<					
M	Cu	<	0.002021	M	Mg		0.000612	n	S	<		M	W		0.000174				
M	Dy	<	0.000118	M	Mn		0.000649	M	Sb		0.008706	M	Y	<	0.000118				
M	Er	<	0.000118	O	Mo		0.007182	M	Sc	<	0.000118	M	Yb	<	0.000118				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M14718 R: 01/12/21 (RA)

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58025
Lot Number: 070620
Description: Manganese (Mn)

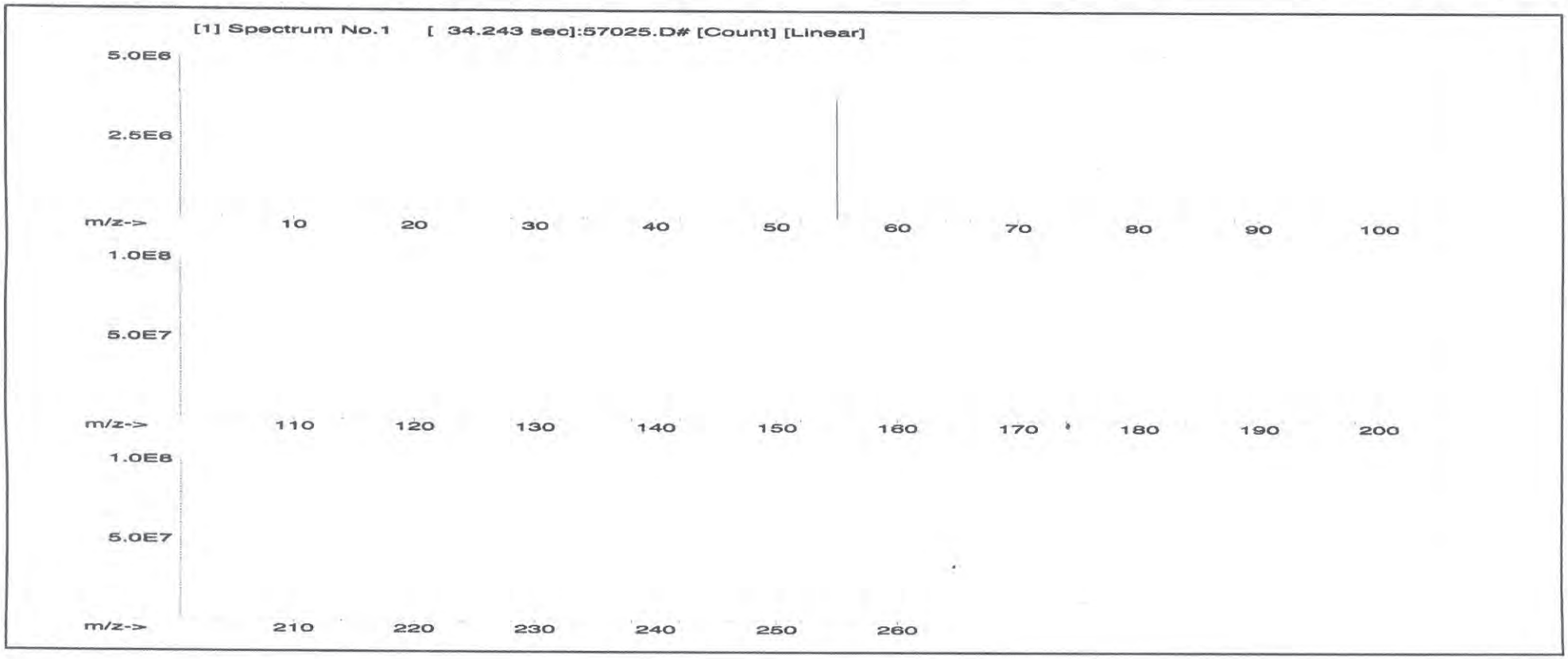
Expiration Date: 070623
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.61 0.153 Flask Uncertainty

Lot #	Solvent:		
19410105	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

Formulated By:	Lawrence Barry	070620
Reviewed By:	Pedro L. Rentas	070620

521

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese (II) nitrate tetrahydrate (Mn)	58125	010720	0.1000	199.9	0.084	1000	10000.7	**1000.0**	**2.2**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



522

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M4768 R: 10/28/2020 (BH)

Certified Reference Material CRM

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523

CERTIFIED WEIGHT REPORT:

Part Number: **57028**
Lot Number: **072420**
Description: **Nickel (Ni)**

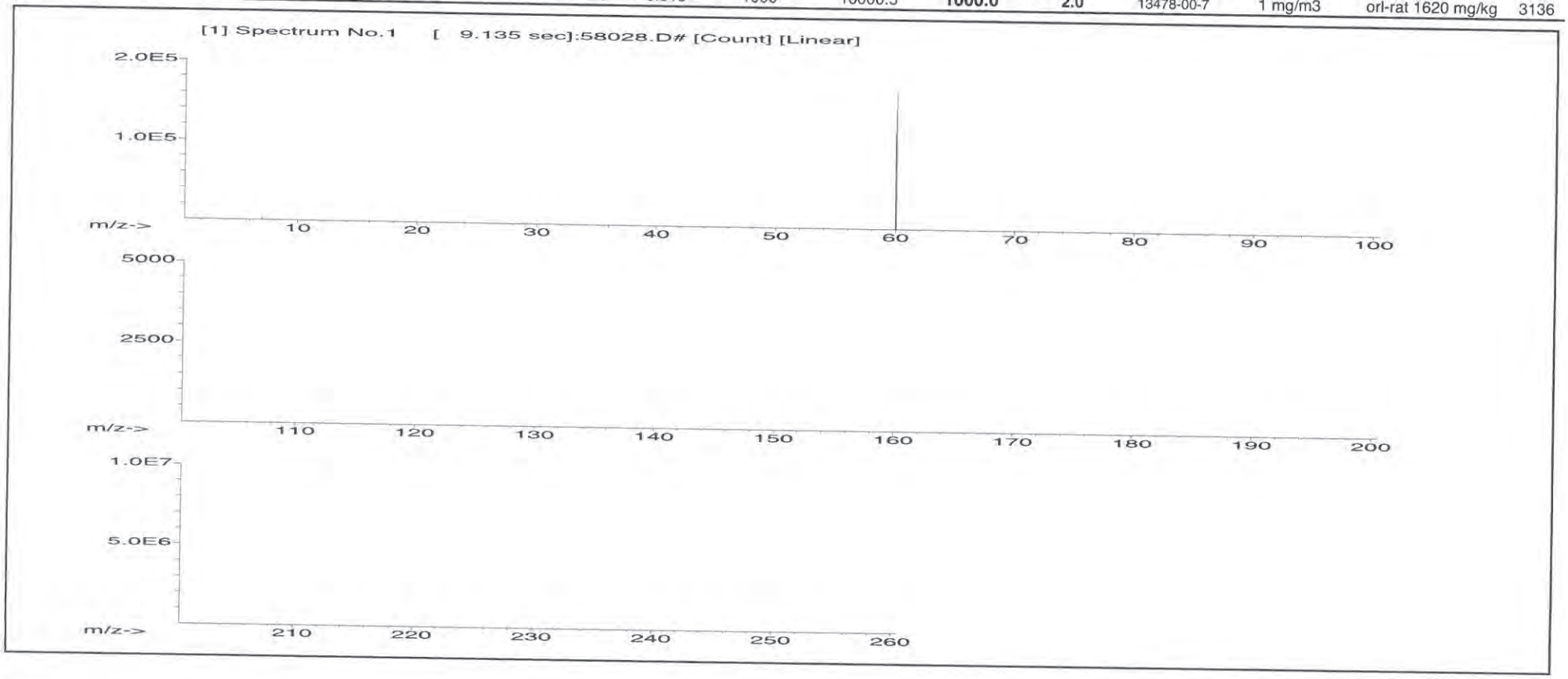
Expiration Date: 072423
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060
Volume shown below was diluted to (mL): 2000.02

	Lot #	**Solvent:**	
	19410105	Nitric Acid	
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	072420
Reviewed By:	Pedro L. Rentas	072420

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Nickel (II) nitrate Hexahydrate (Ni)	58128	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



524

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

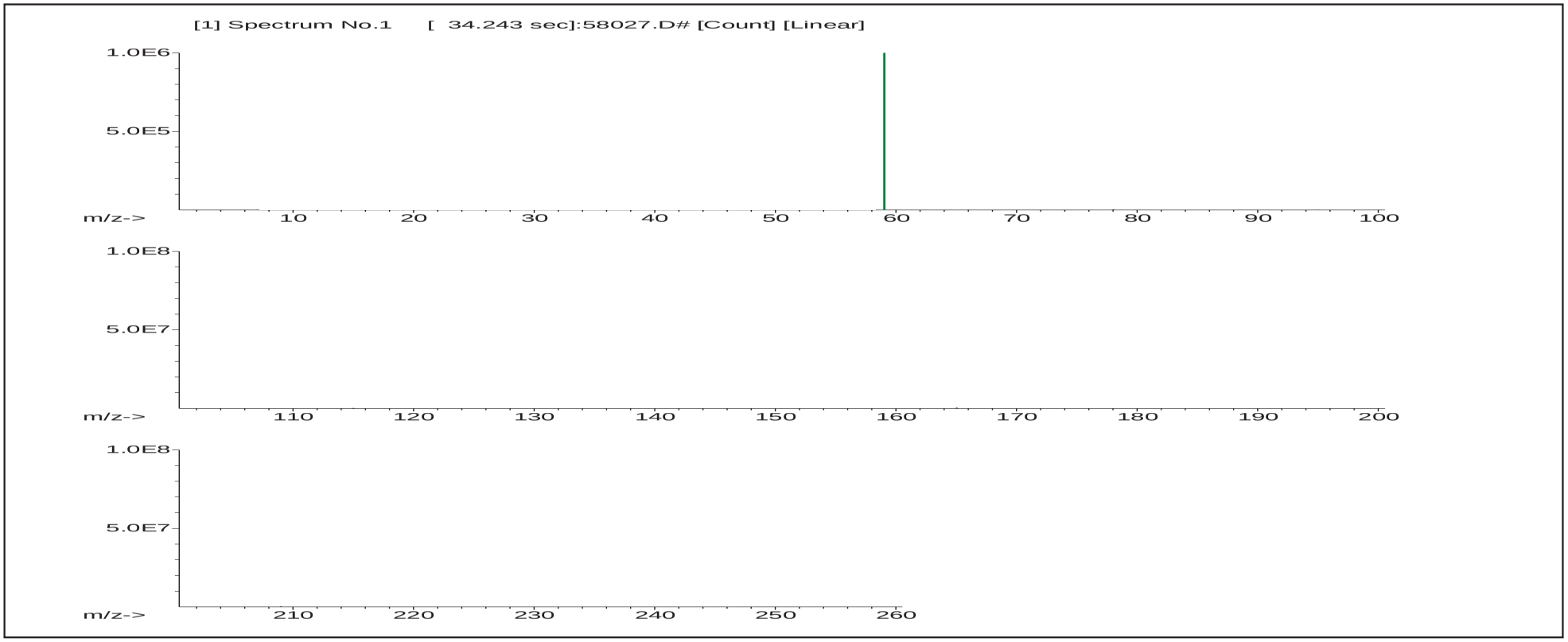
525

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57027**	19410105	Nitric Acid	
Lot Number:	**020821**			
Description:	**Cobalt (Co)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	020824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty	

Formulated By:	Lawrence Barry	020821
Reviewed By:	Pedro L. Rentas	020821

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Cobalt nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 mg/kg	3113



526

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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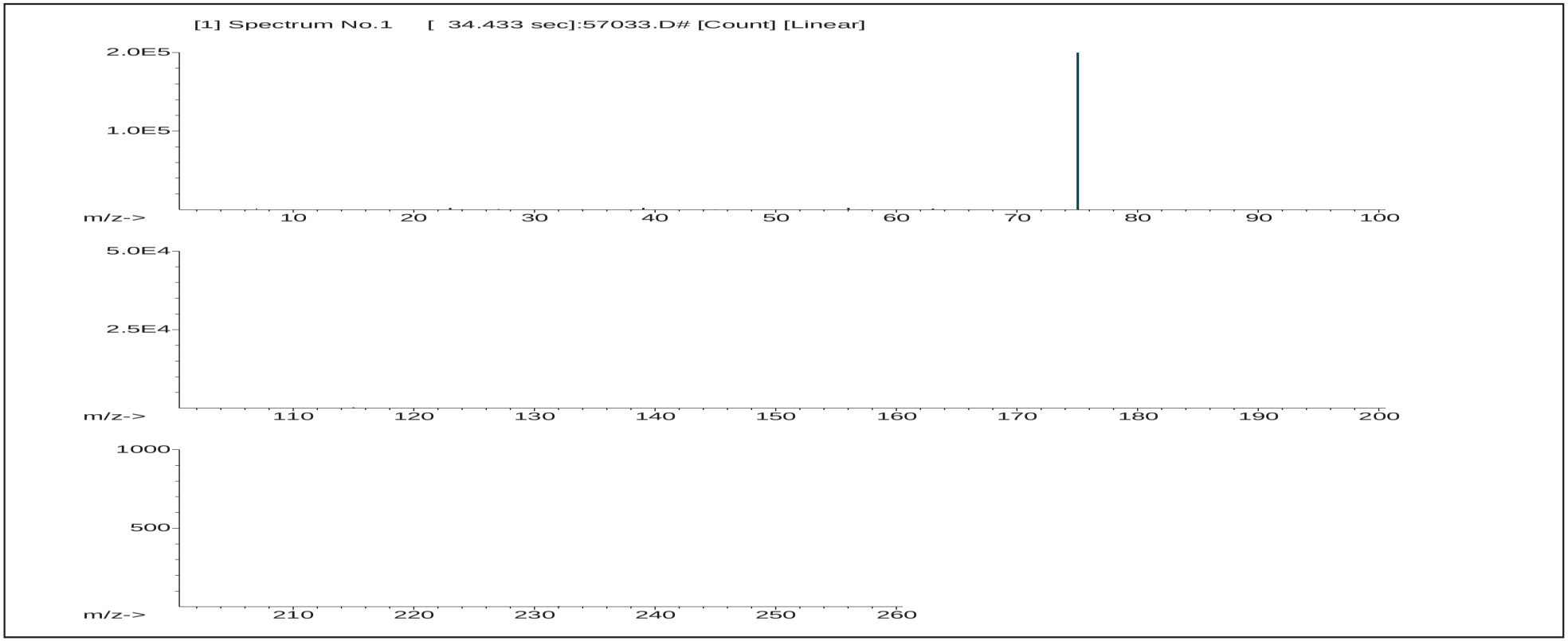
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57033**	19410105	Nitric Acid
Lot Number:	**012521**		
Description:	**Arsenic (As)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	012524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

527

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Arsenic (As)	58133	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



528

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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529

CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 031921
Description: Boron (B)

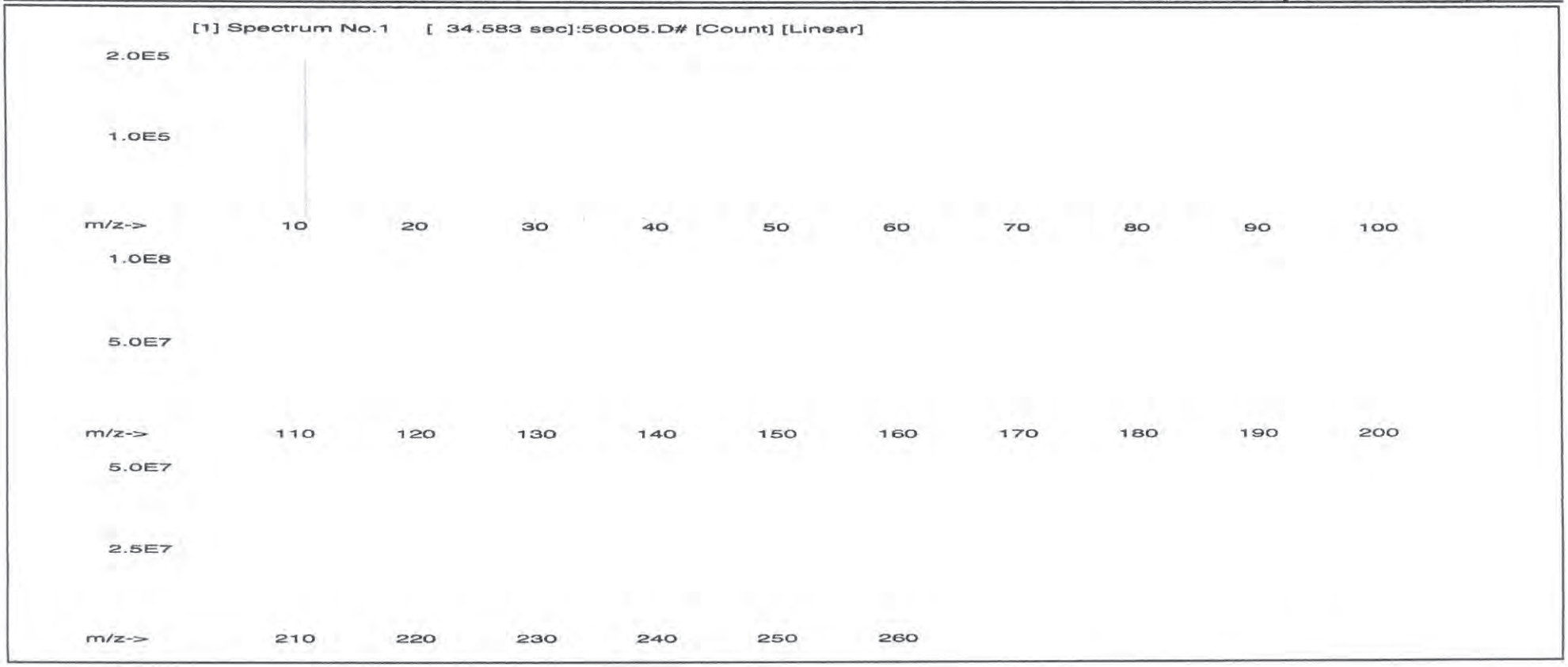
Lot #	Solvent:	
MKBQ8597V	Ammonium hydroxide	
2.0%	40.0 (mL)	Ammonium hydroxide

Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 031921

Pedro Rentas
Reviewed By: Pedro L. Rentas 031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



530

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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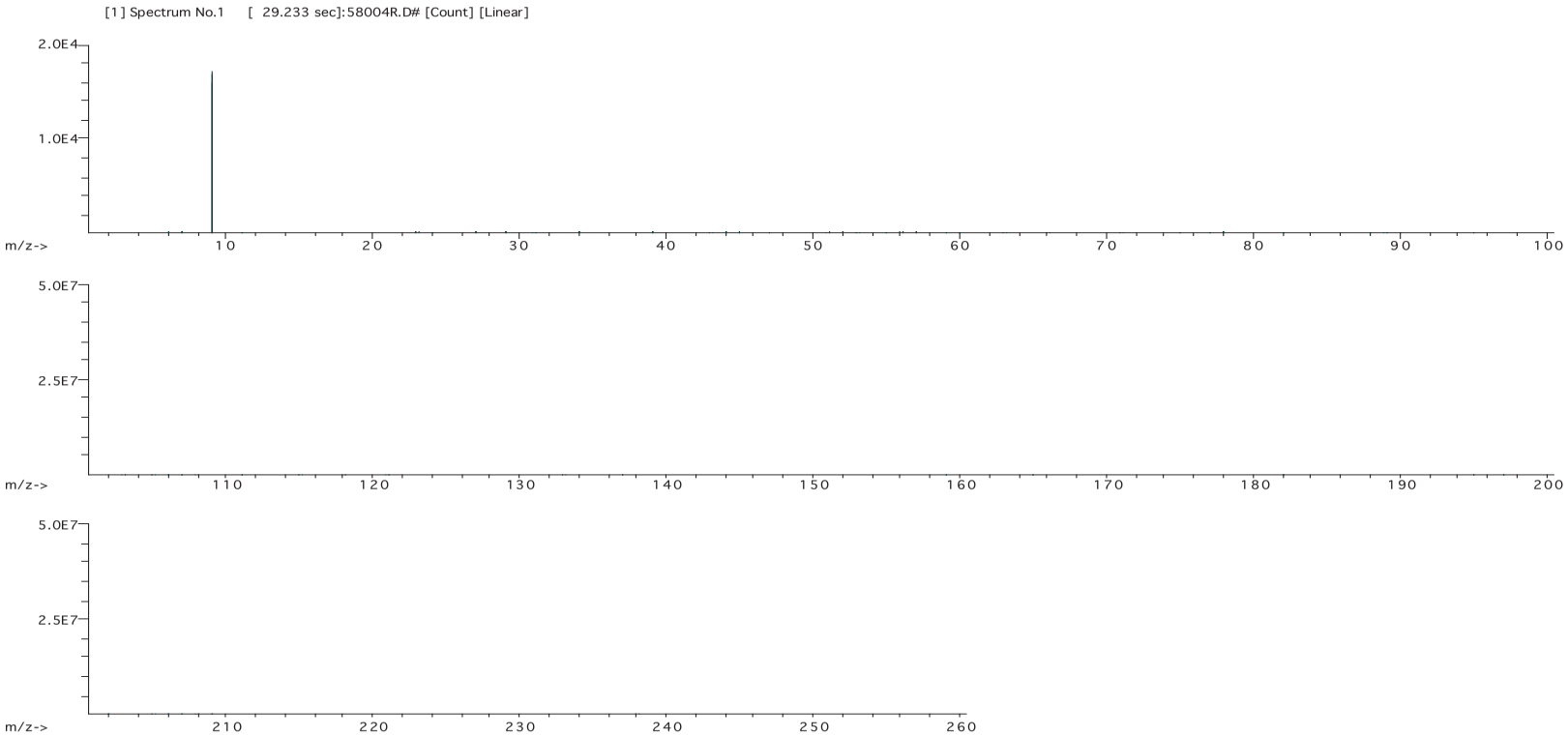
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	19410105	Nitric Acid	
Lot Number:	**030221**			
Description:	**Beryllium (Be)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	030224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

531

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Beryllium acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



532

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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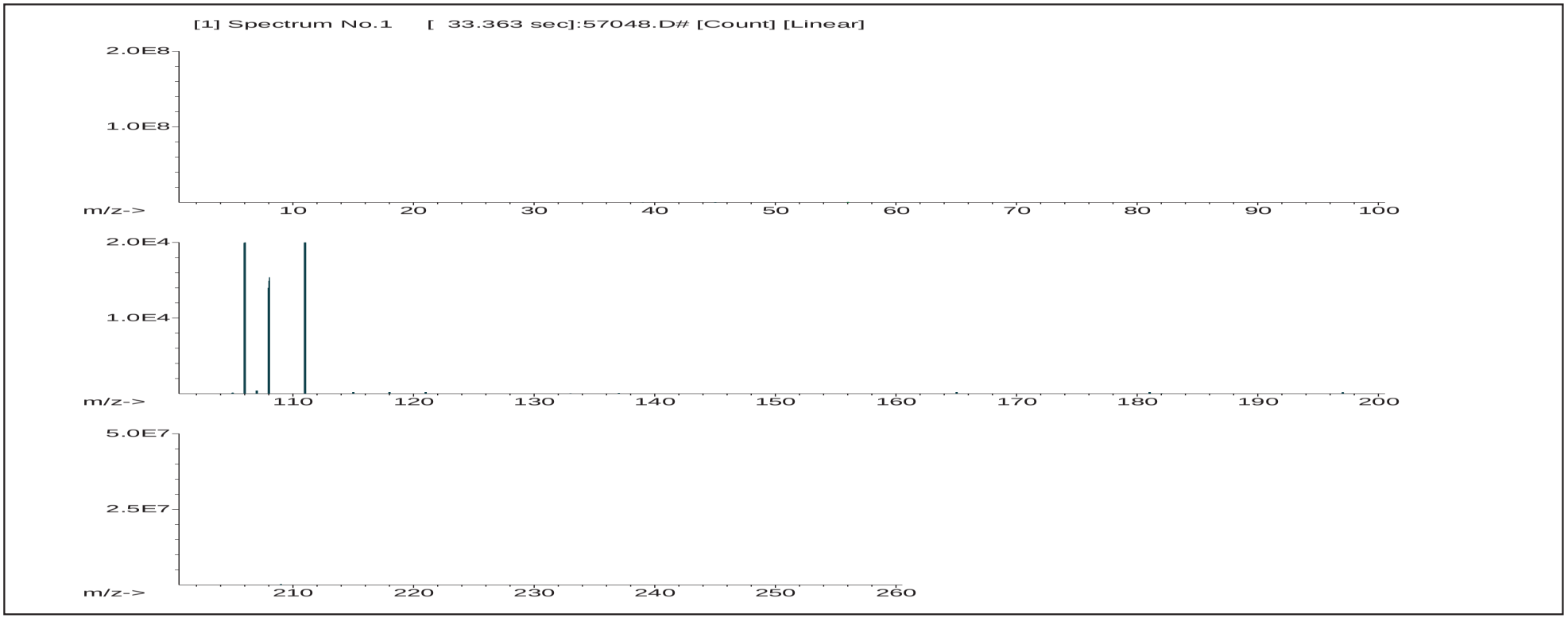
533

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Giovanni Esposito	072821
Reviewed By:	Pedro L. Rentas	072821

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



534

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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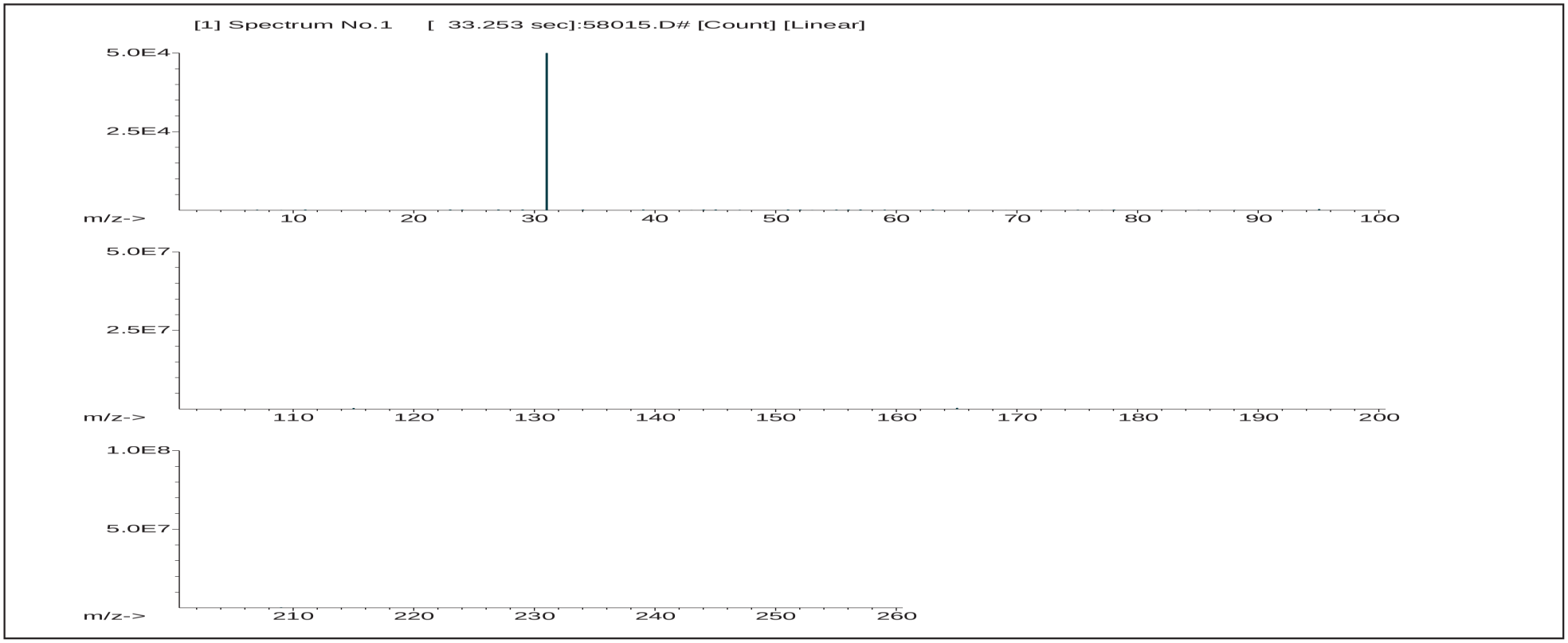
CERTIFIED WEIGHT REPORT:

535

		Lot #	Solvent:	
Part Number:	**57015**	20370011	Nitric Acid	
Lot Number:	**051121**			
Description:	**Phosphorous (P)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	051124			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	051121
Reviewed By:	Pedro L. Rentas	051121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



536

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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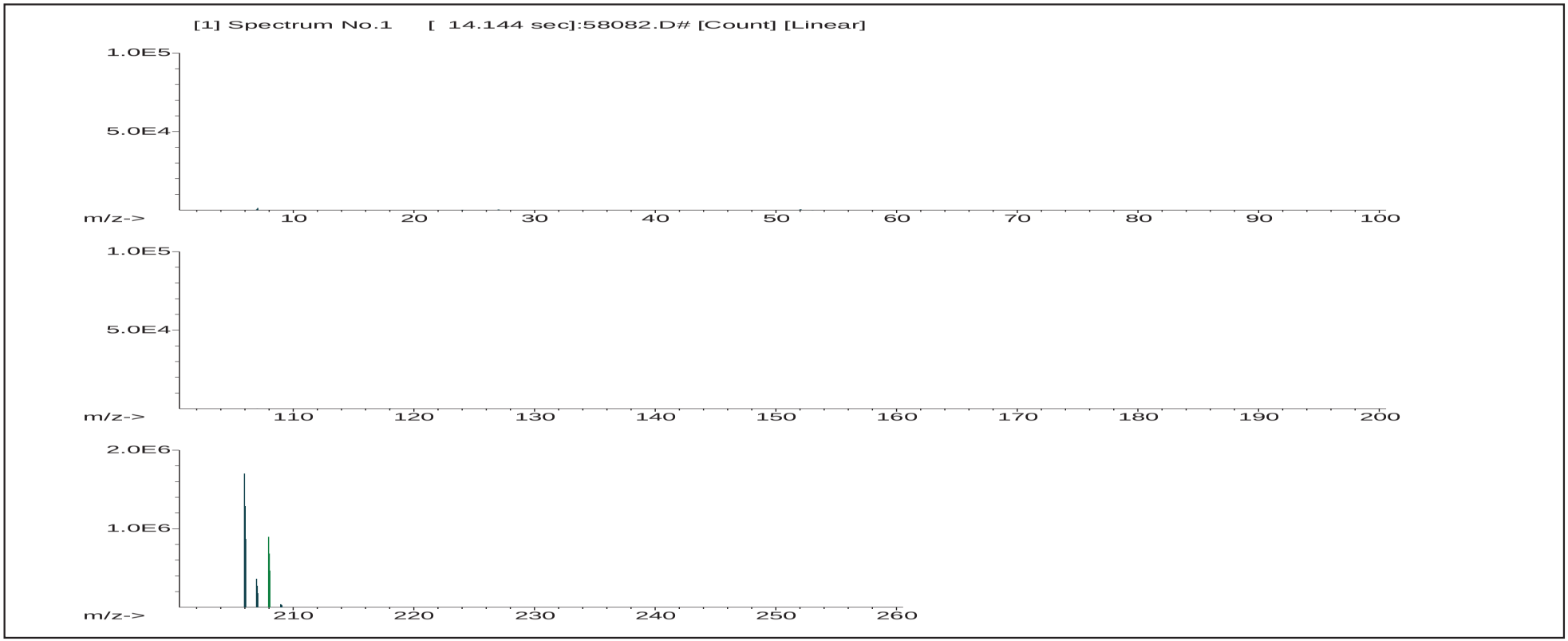
537

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57082**	20370011	Nitric Acid	
Lot Number:	**062221**			
Description:	**Lead (Pb)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	062221
Reviewed By:	Pedro L. Rentas	062221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



538

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CERTIFIED WEIGHT REPORT:

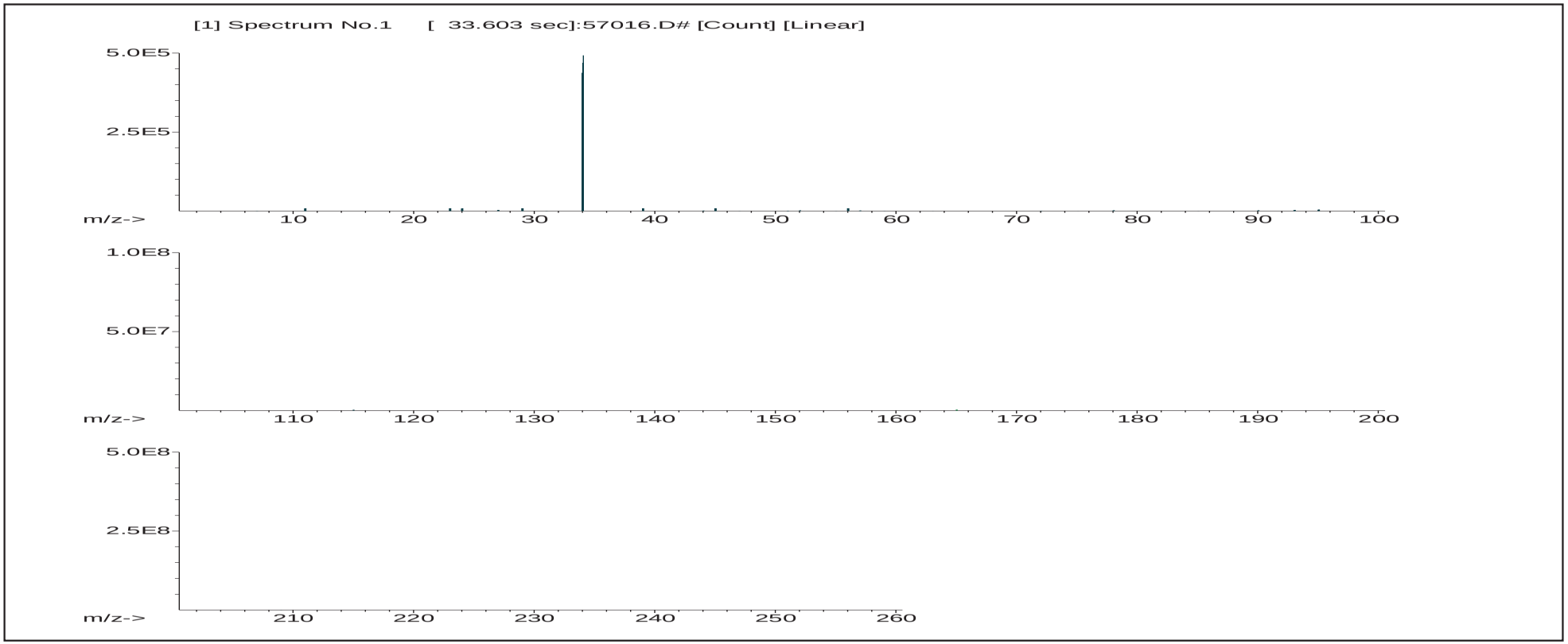
		Lot #	Solvent:
Part Number:	**57016**	051721	ASTM Type 1 Water
Lot Number:	**051721**		
Description:	**Sulfur (S)**		

Expiration Date: 051724
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

539

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



540

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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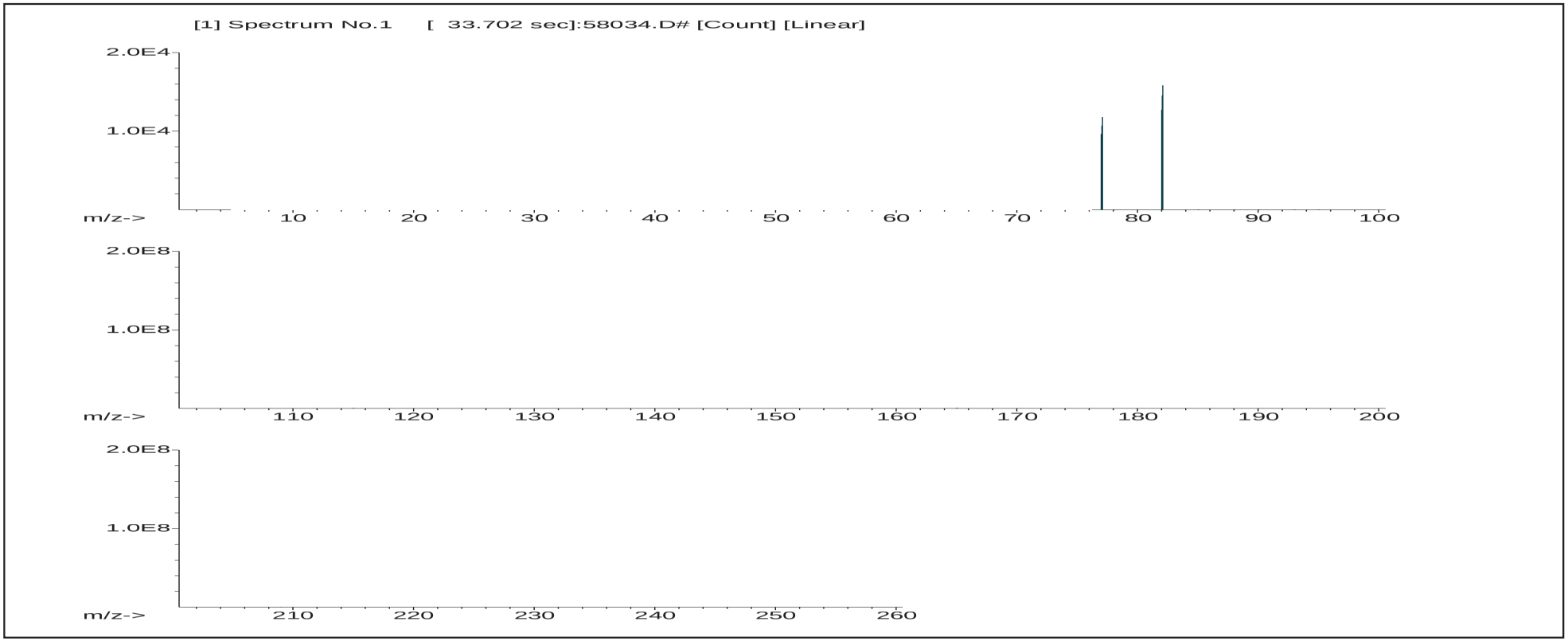
CERTIFIED WEIGHT REPORT:

541

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Giovanni Esposito	070221
Reviewed By:	Pedro L. Rentas	070221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



542

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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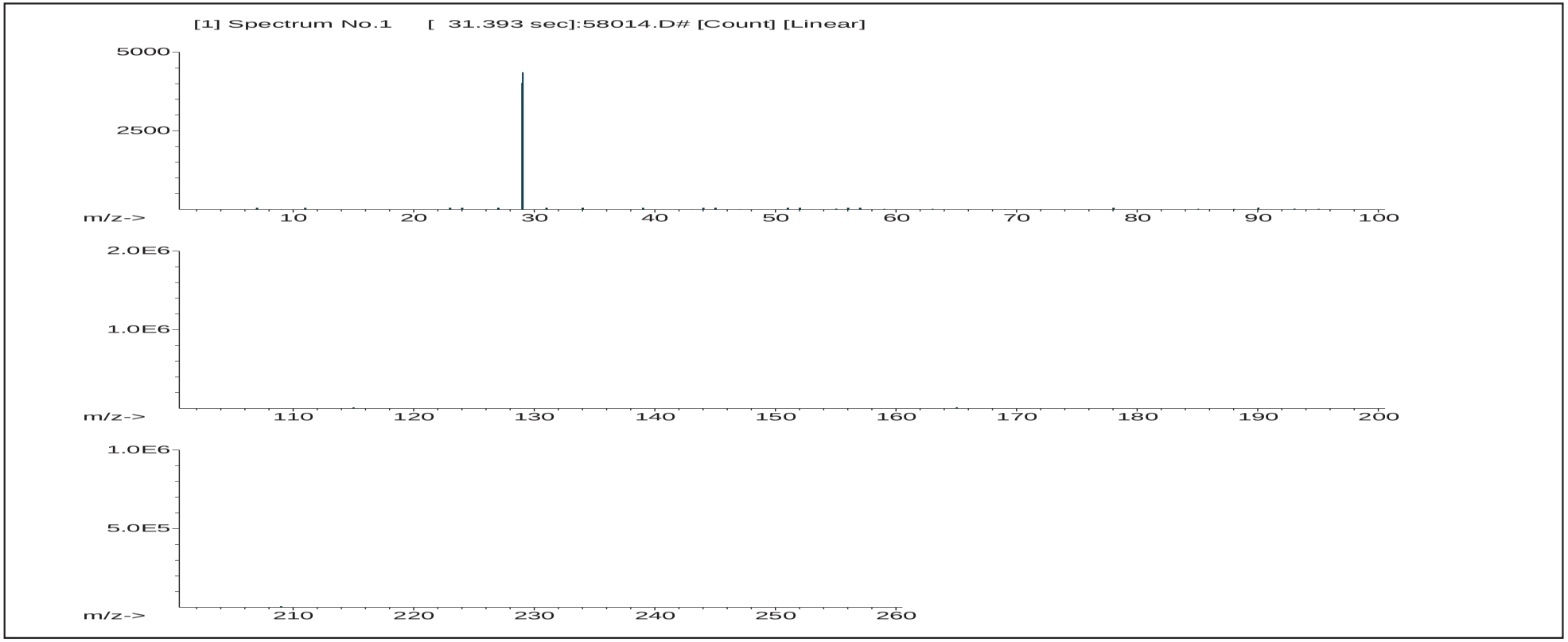
543

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



544

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57047**	20370011	Nitric Acid	
Lot Number:	**072921**			
Description:	**Silver (Ag)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072924			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

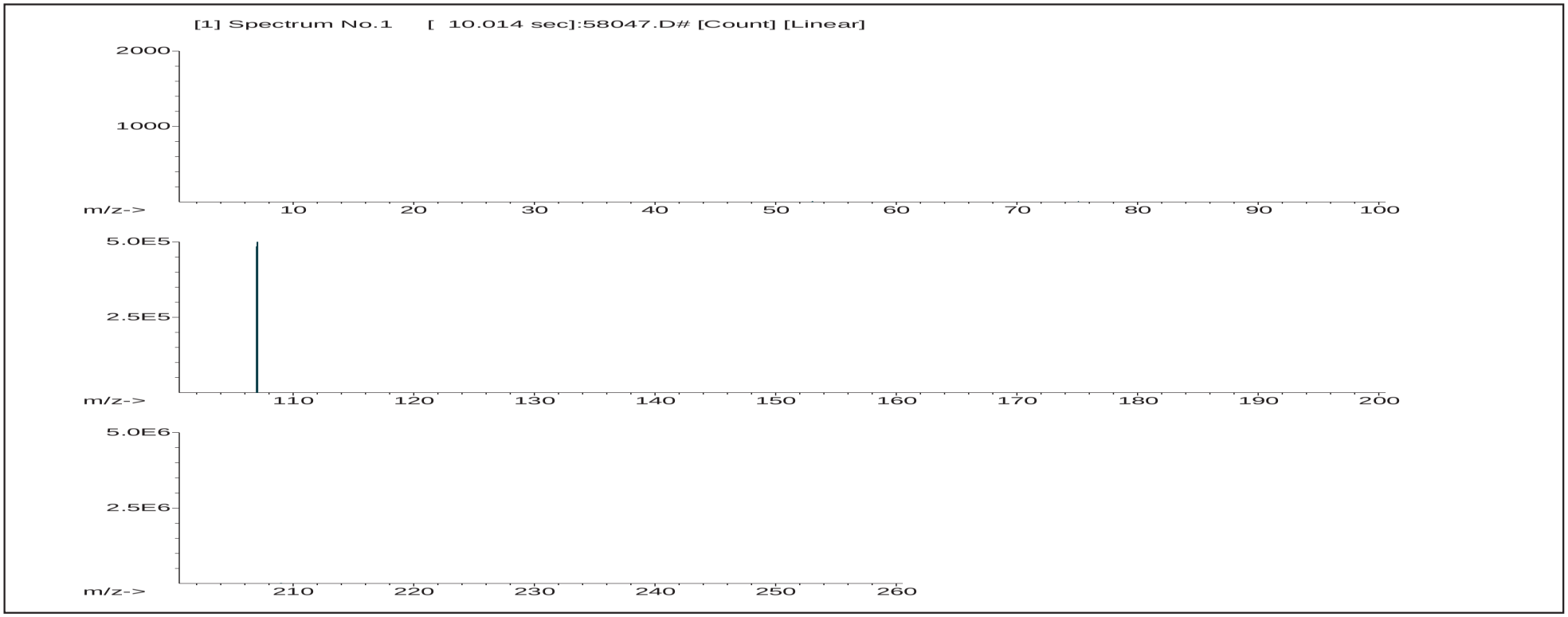
Formulated By: Giovanni Esposito 072921

Pedro Rentas

Reviewed By: Pedro L. Rentas 072921

545

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



546

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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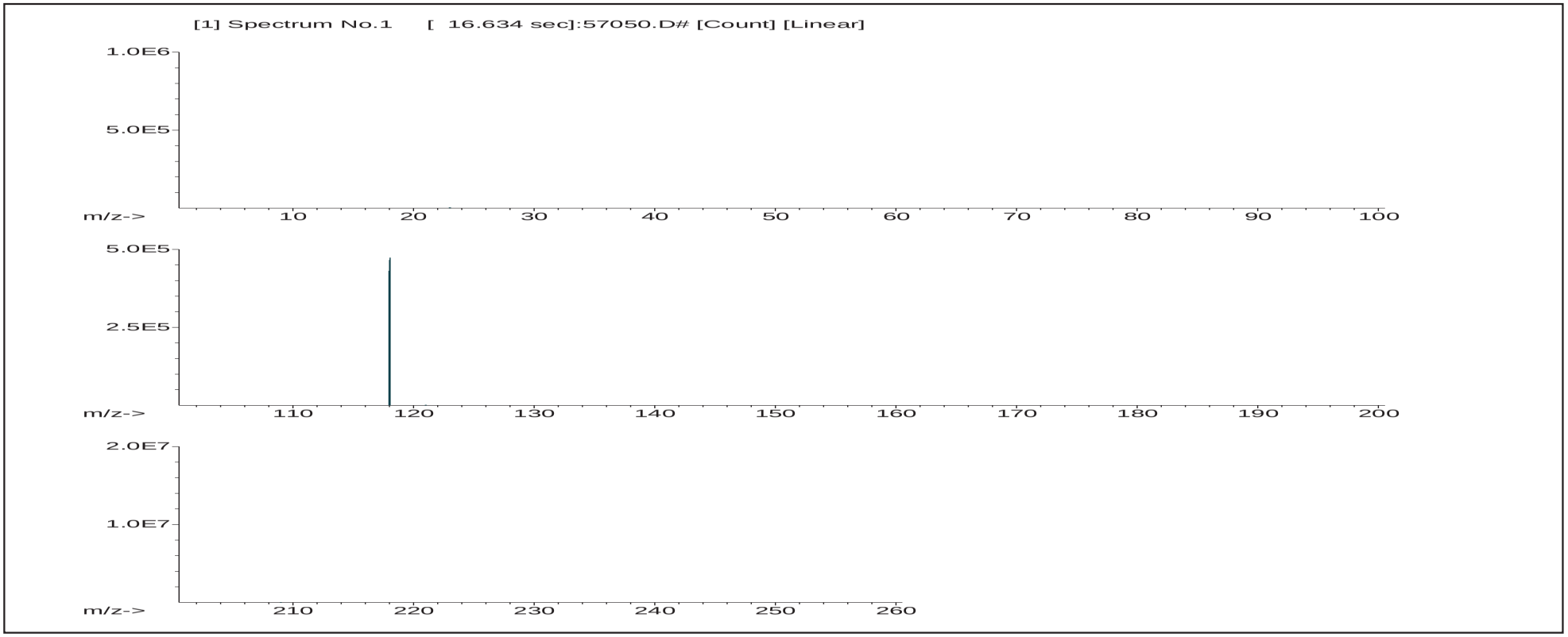
547

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57050**	19410105	Nitric Acid	
Lot Number:	**021121**	240241	Hydrochloric acid	
Description:	**Tin (Sn)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	021124	6.0%	120.0	Hydrochloric acid
Recommended Storage:	Ambient (20 ºC)		(mL)	
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty	

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



548

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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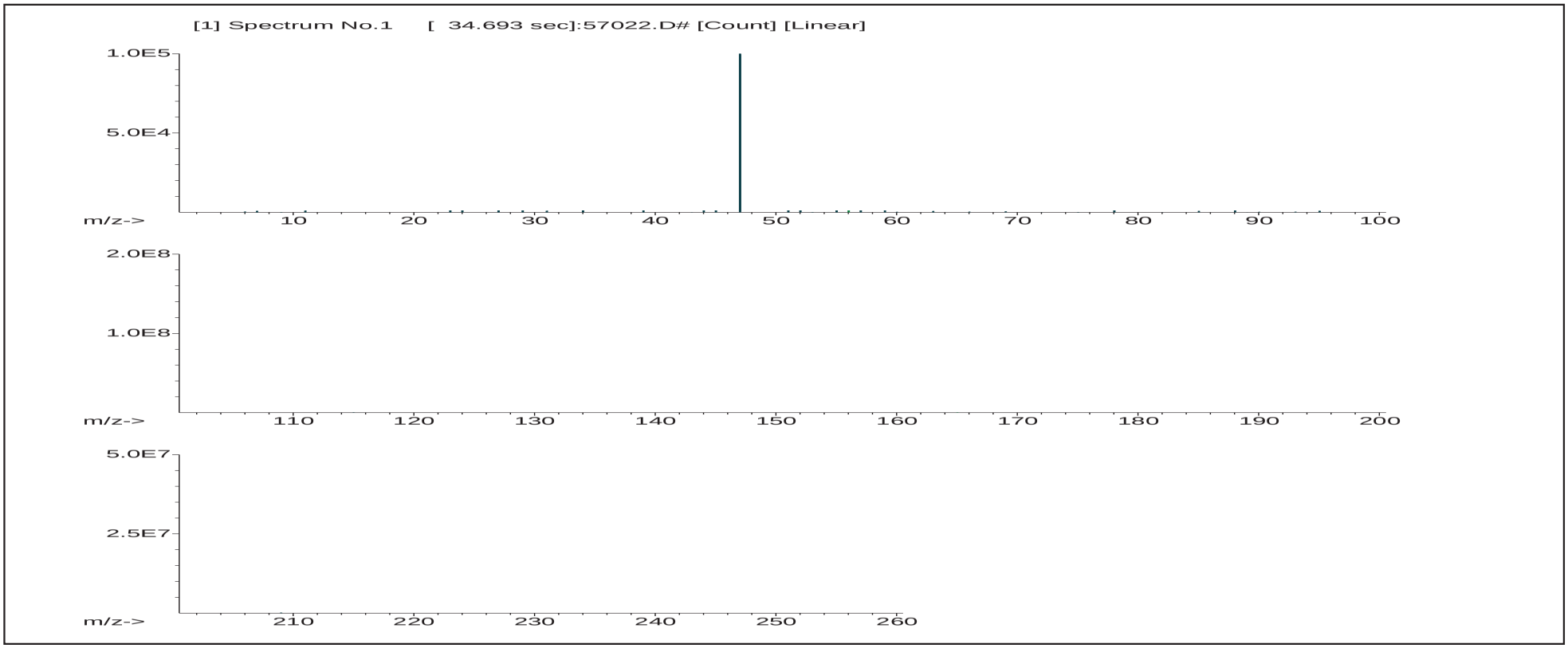
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57022**	20370011	Nitric Acid
Lot Number:	**070721**		
Description:	**Titanium (Ti)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	070724		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



550

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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551

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57081**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Thallium (Tl)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

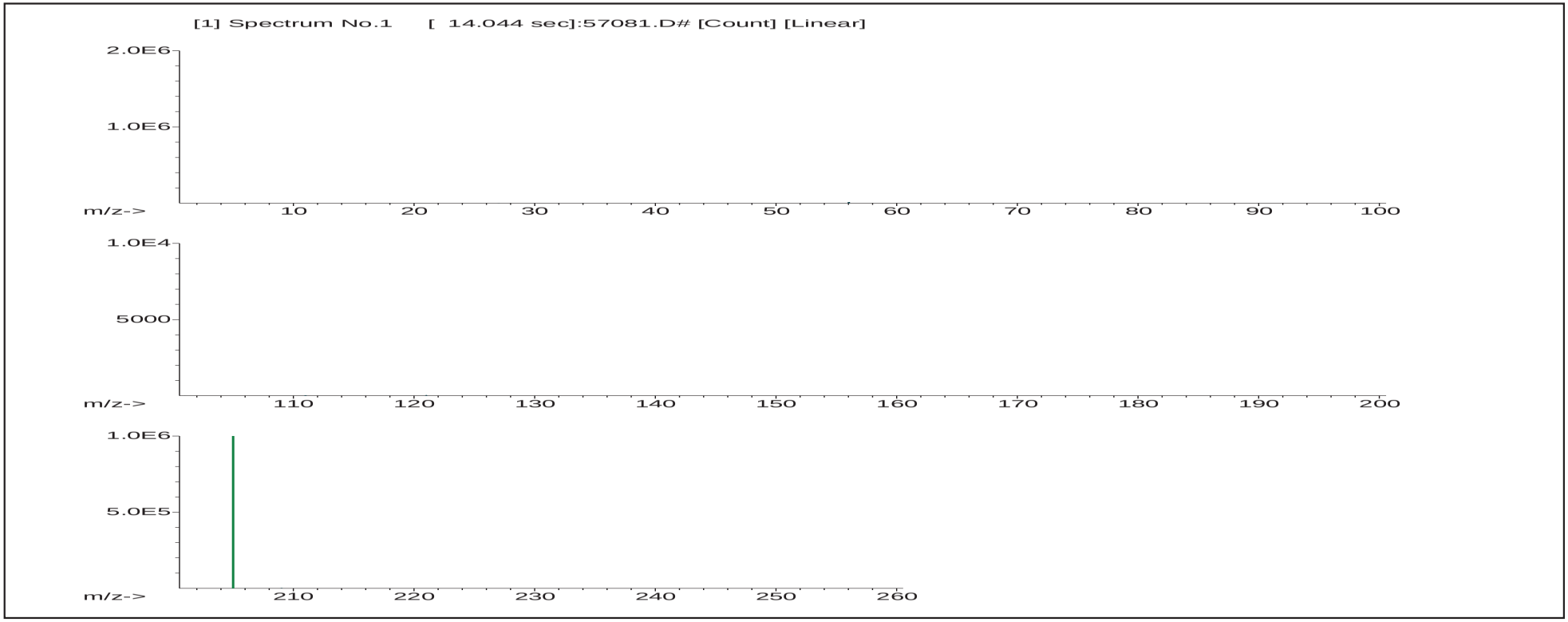
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



552

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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553

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58030**	20370011	Nitric Acid
Lot Number:	**031921**		
Description:	**Zinc (Zn)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

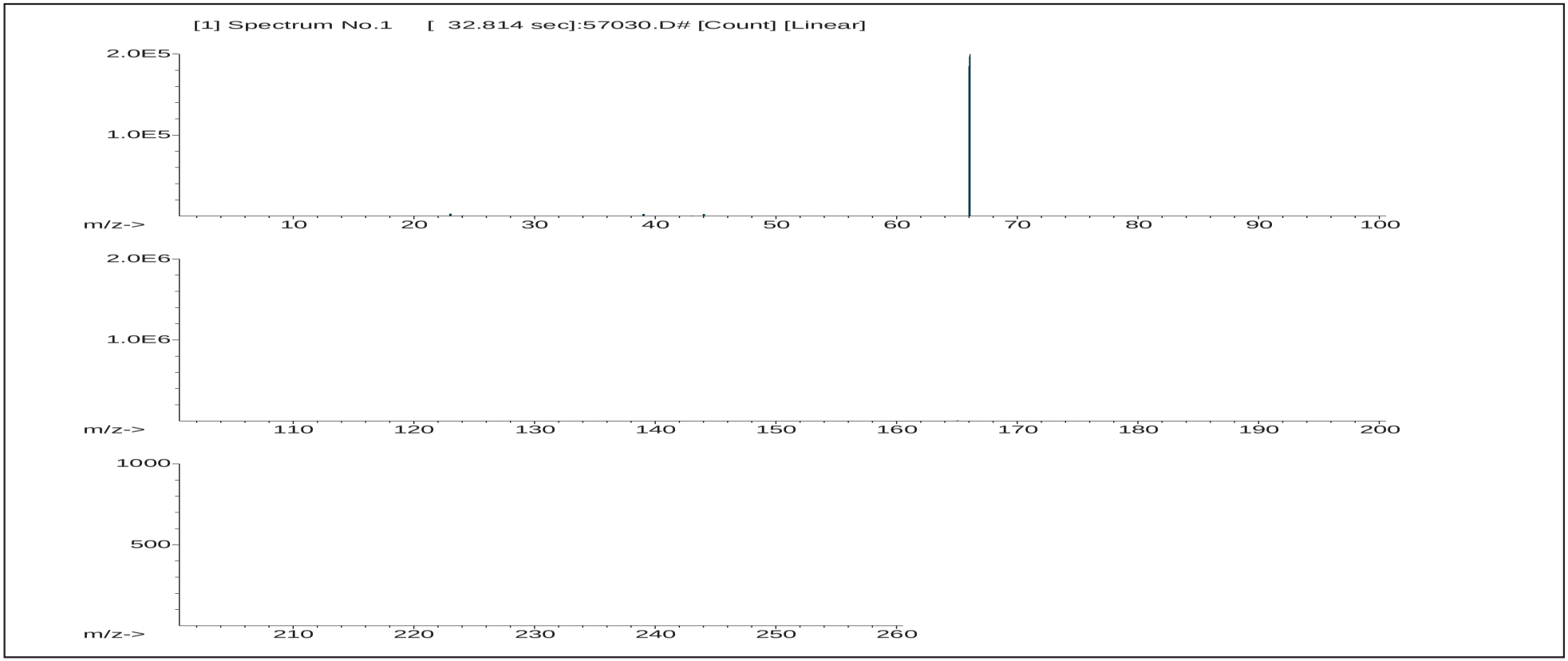
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



554

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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IN 5019 R: 12/09/21 (BH)

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CERTIFIED WEIGHT REPORT:

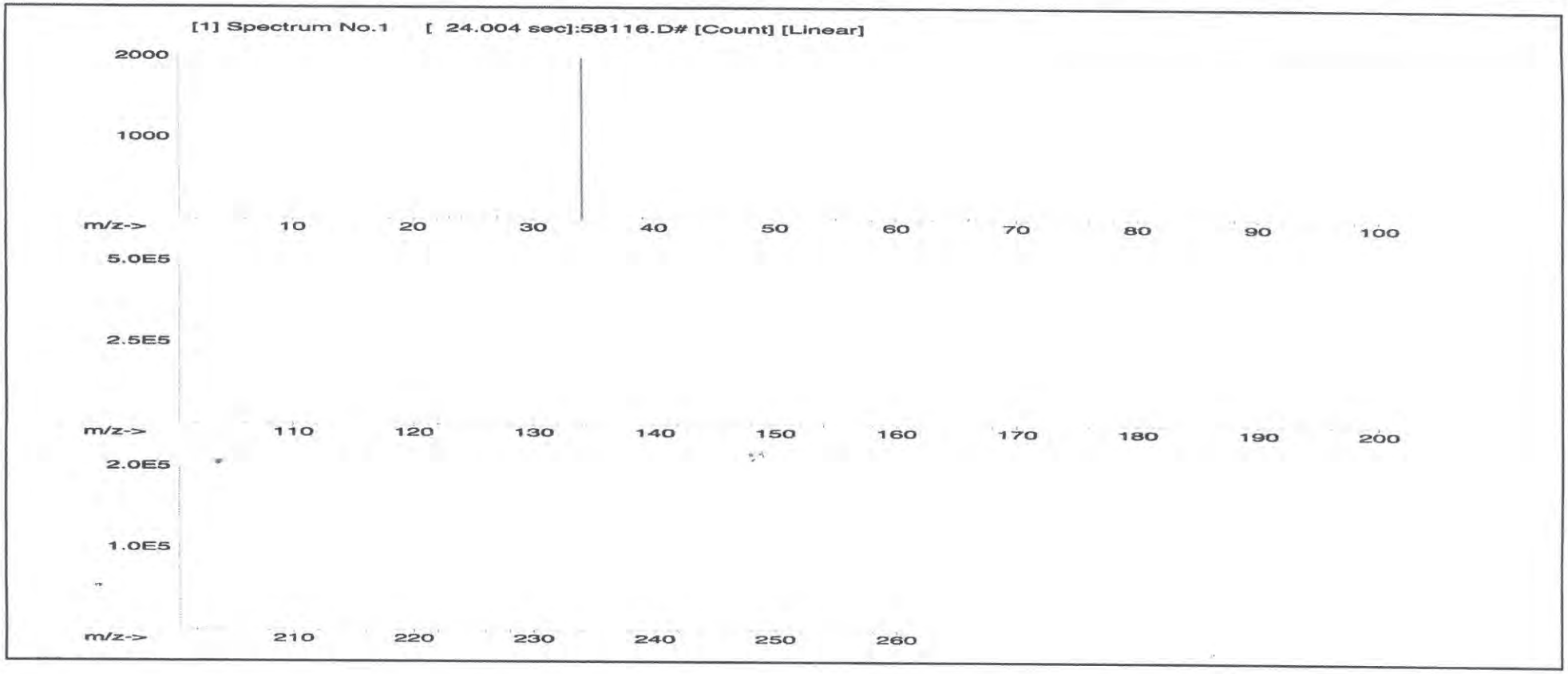
Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



555

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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556

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BA M5020 R: 12/09/21

557

CERTIFIED WEIGHT REPORT:

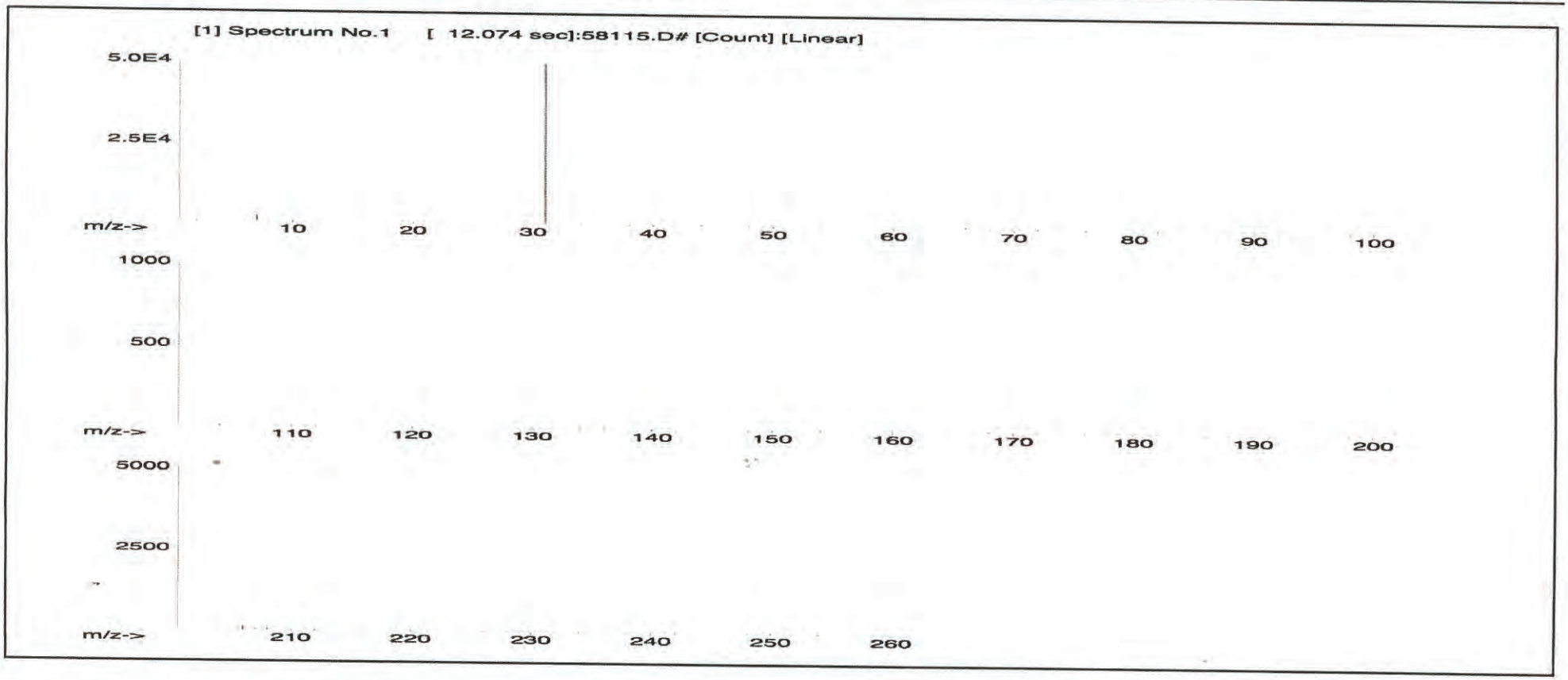
Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



558

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 6/2/22

559

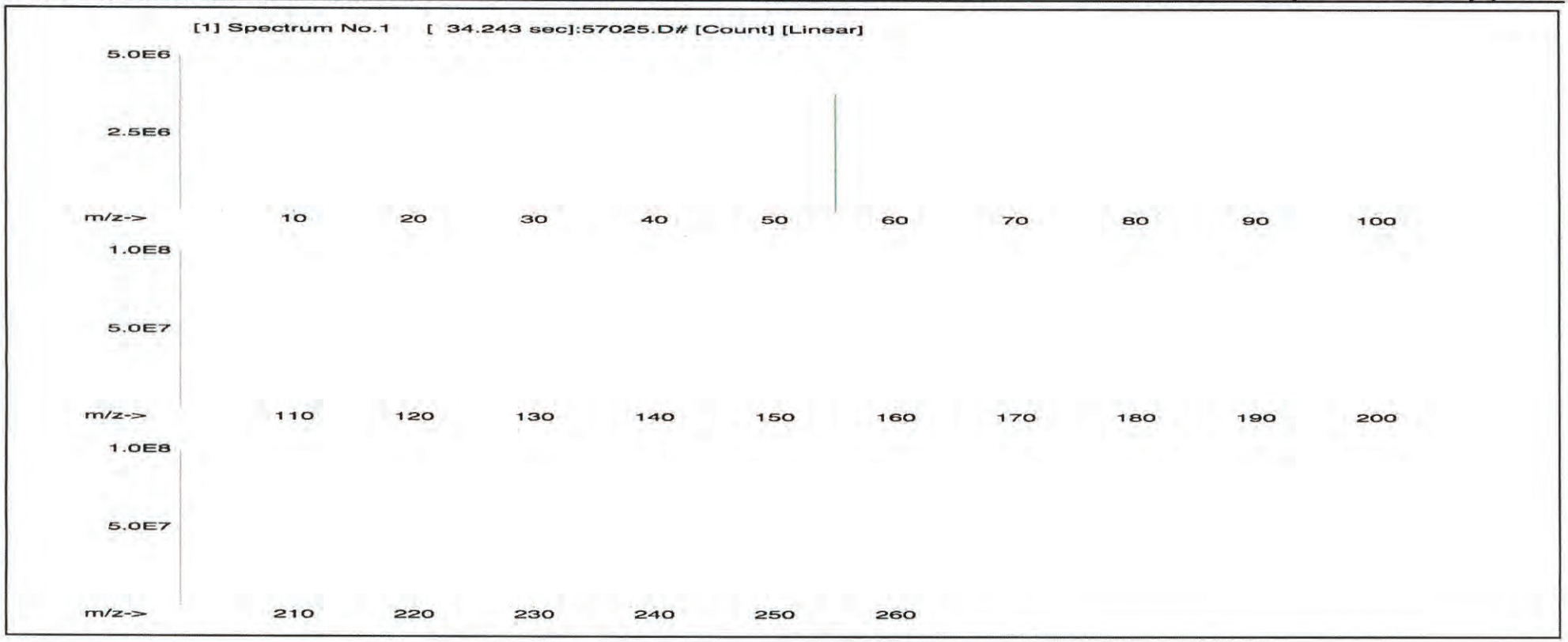
CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:
Part Number:	**58025**	20510011	Nitric Acid
Lot Number:	**060122**		
Description:	**Manganese (Mn)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	060125		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



560

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
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M5192 R: 06/17/22

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561

CERTIFIED WEIGHT REPORT:

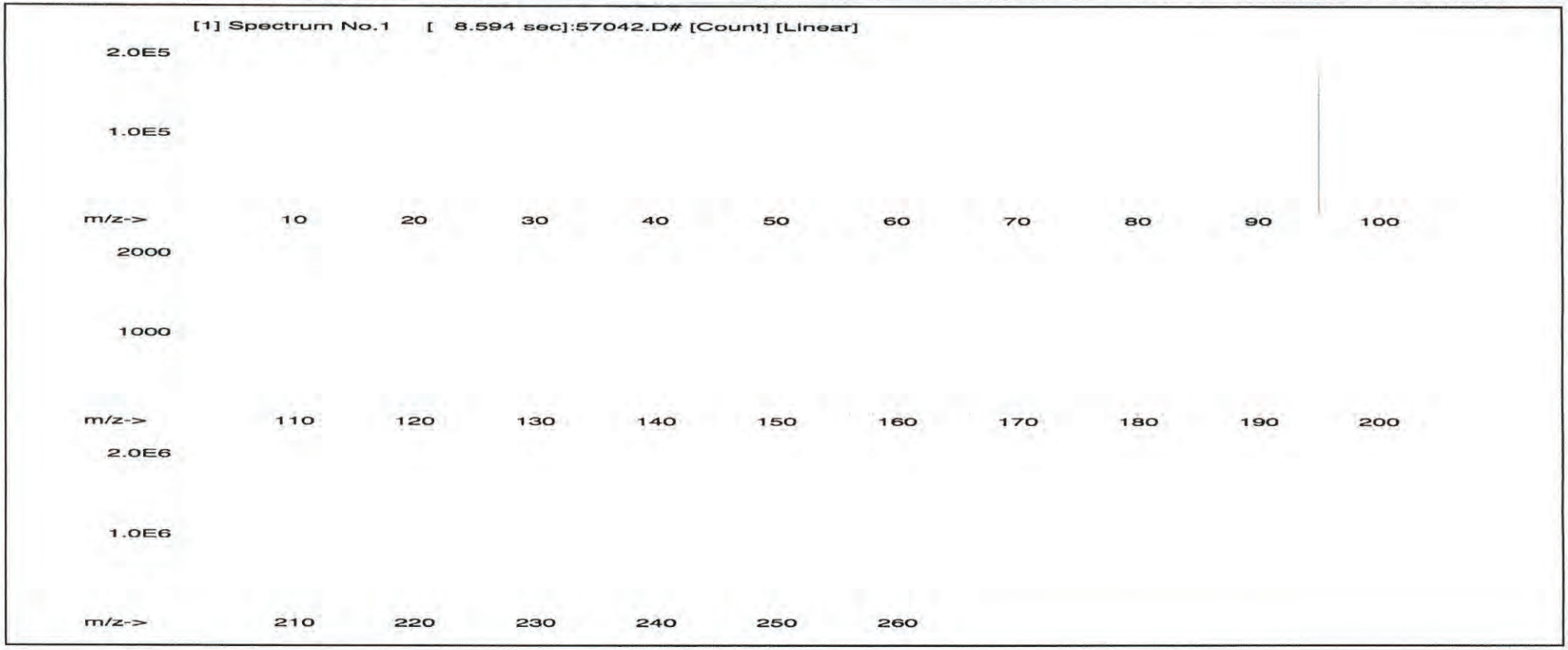
Part Number: **57042**
Lot Number: **051722**
Description: **Molybdenum (Mo)**

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



562

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5193
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563

CERTIFIED WEIGHT REPORT:

Part Number: **58120**
Lot Number: **082021**
Description: **Calcium (Ca)**

Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.4 0.058 Flask Uncertainty

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid

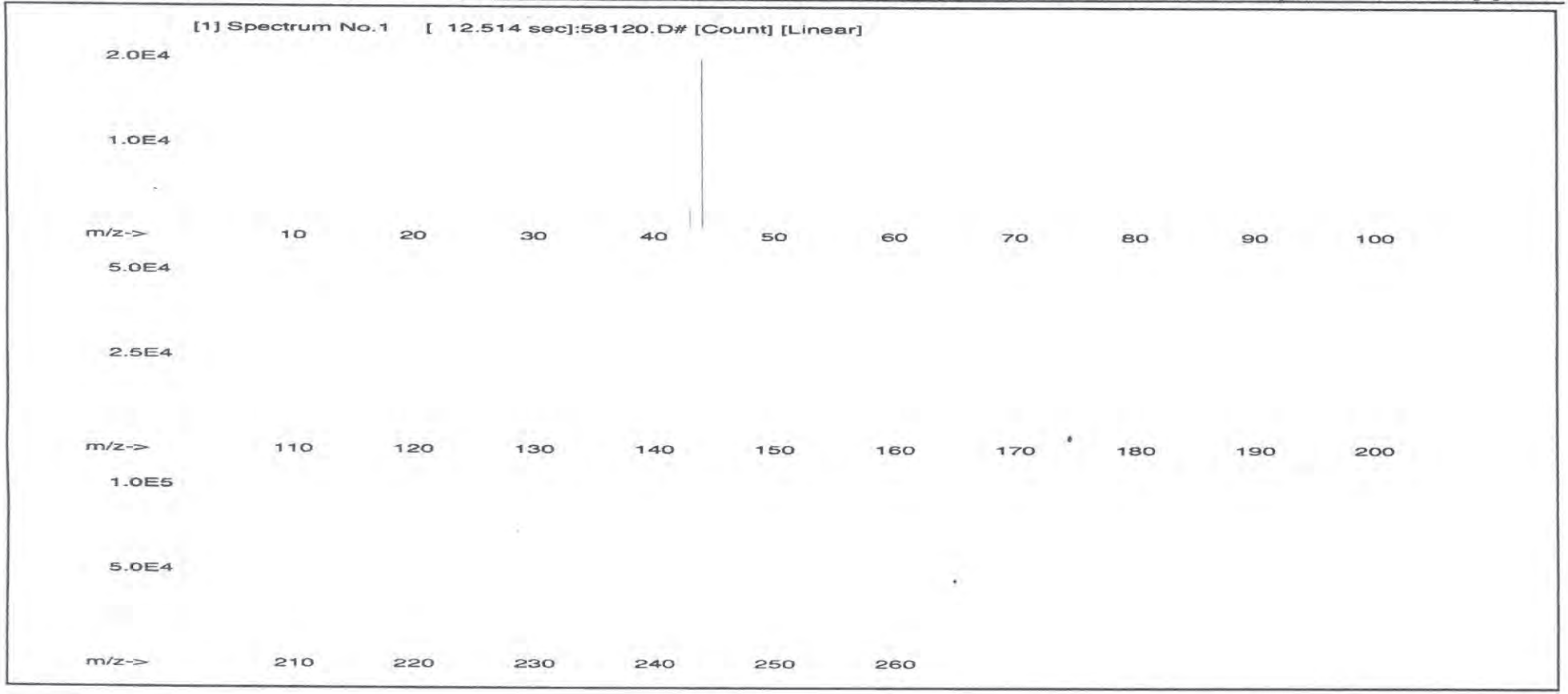
Giovanni Esposito

Formulated By:	Giovanni Esposito	082021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	082021

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

564

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565

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #	
Solvent:	20370011	Nitric Acid
2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty
	0.058	Flask Uncertainty

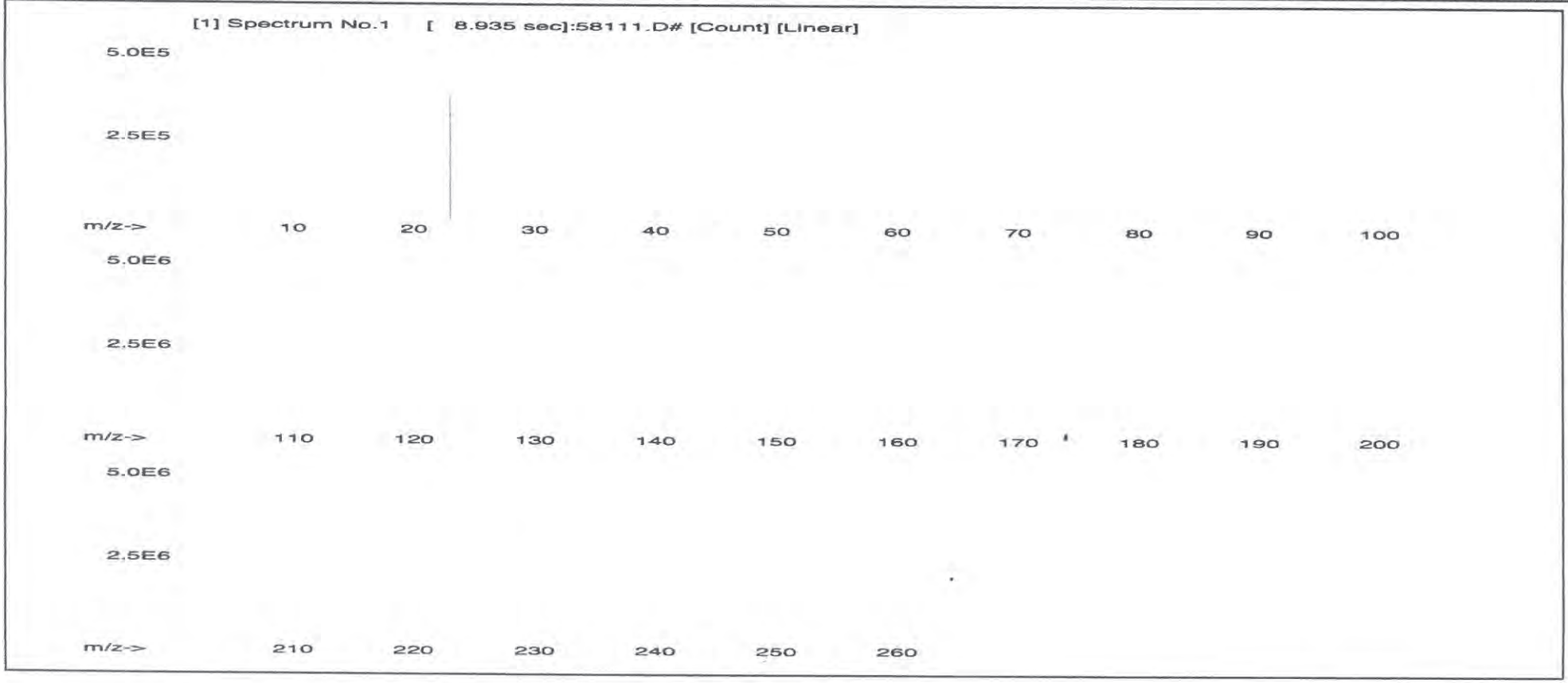
Giovanni Esposito

Formulated By: Giovanni Esposito 092121

Pedro Rentas

Reviewed By: Pedro L. Rentas 092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



566

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

Part Number: 57119
Lot Number: 062321
Description: Potassium (K)
Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

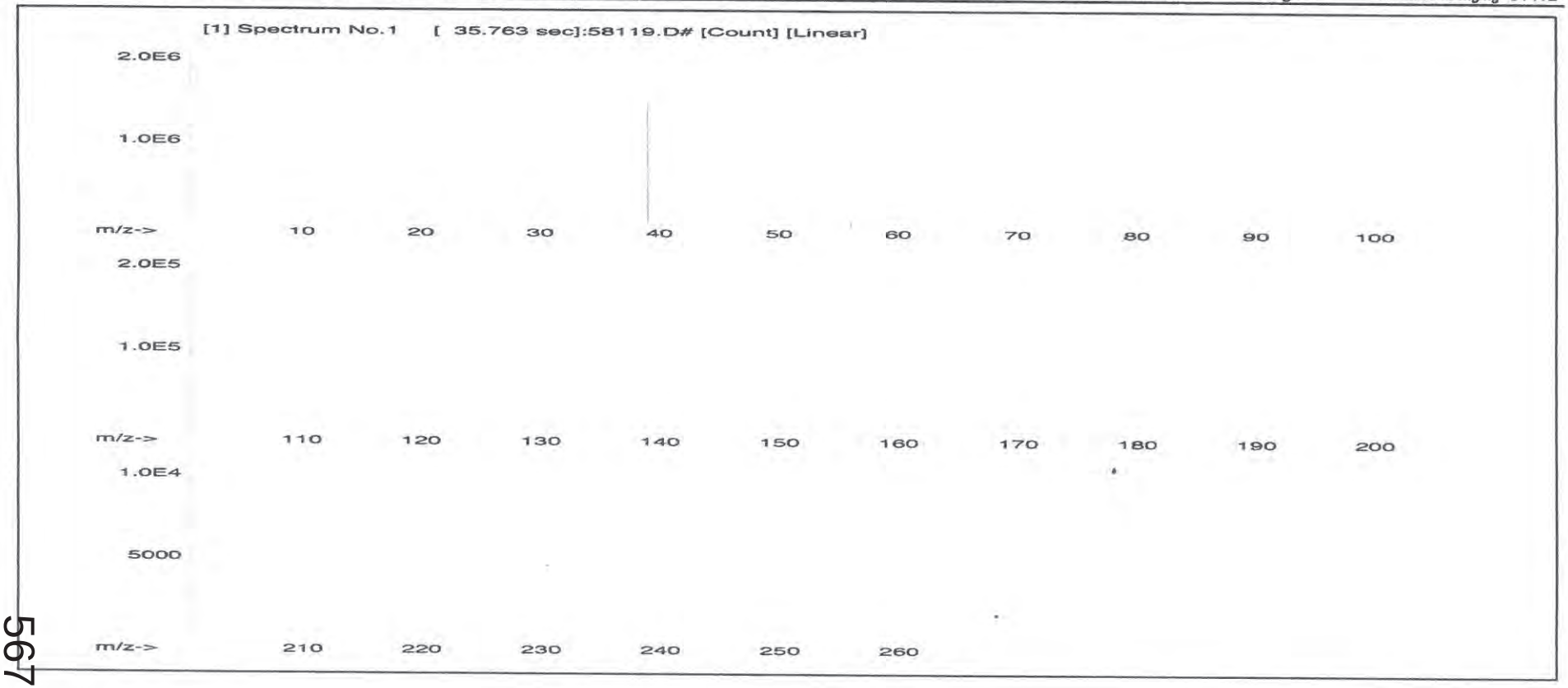
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



567

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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568

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57051**	20370011	Nitric Acid
Lot Number:	**101521**		
Description:	**Antimony (Sb)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	101524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty

Giovanni Esposito

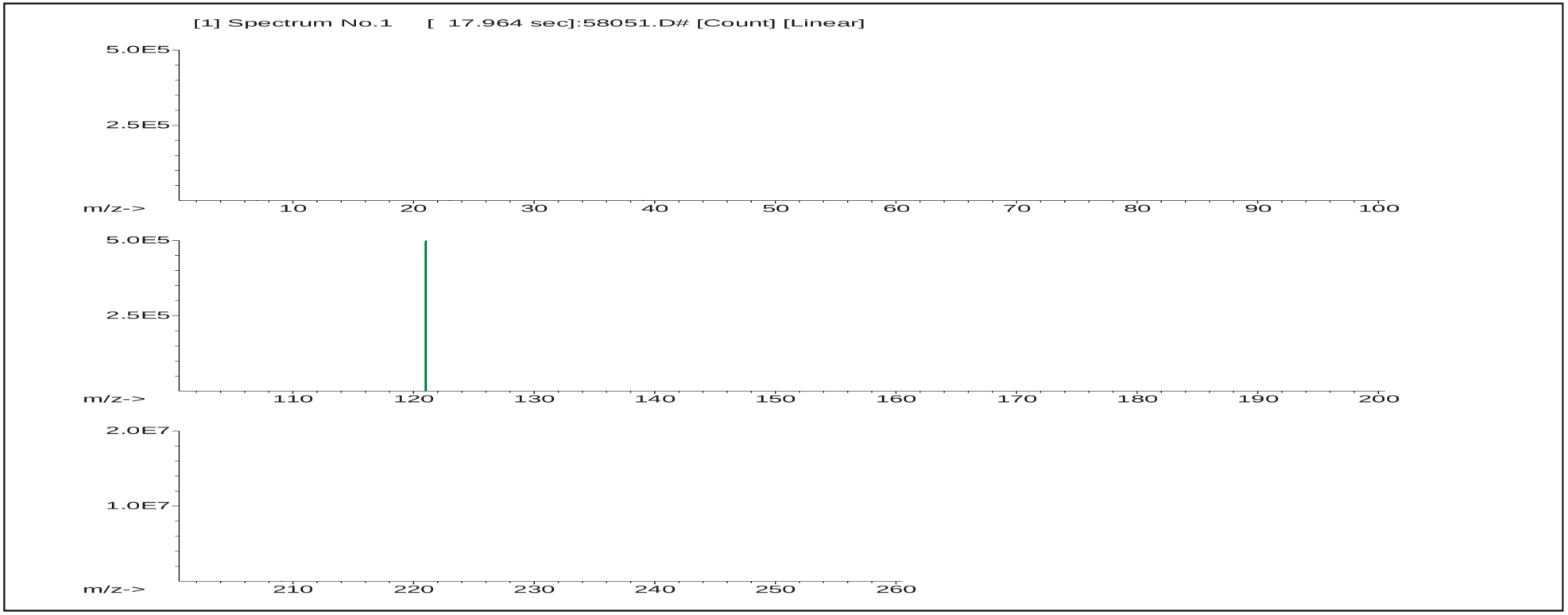
Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

569

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



570

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57023**	20370011	Nitric Acid
Lot Number:	**100121**		
Description:	**Vanadium (V)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	100124		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty

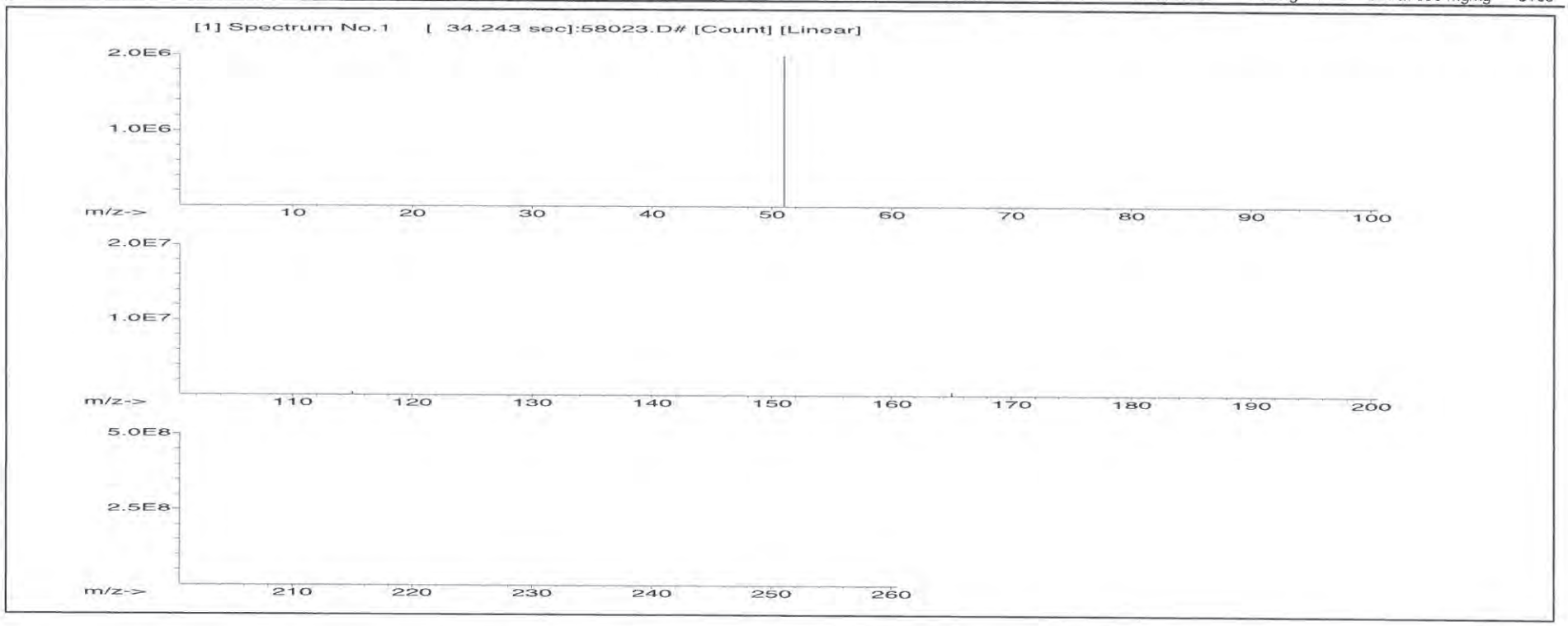
Giovanni Esposito

Formulated By:	Giovanni Esposito	100121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	100121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



571

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

572

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M5229 R: 07/05/22 (BH)

Certified Reference Material CRM

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573

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57092**	20370011	Nitric Acid	
Lot Number:	**073021**			
Description:	**Uranium (U)**	2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	073024			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

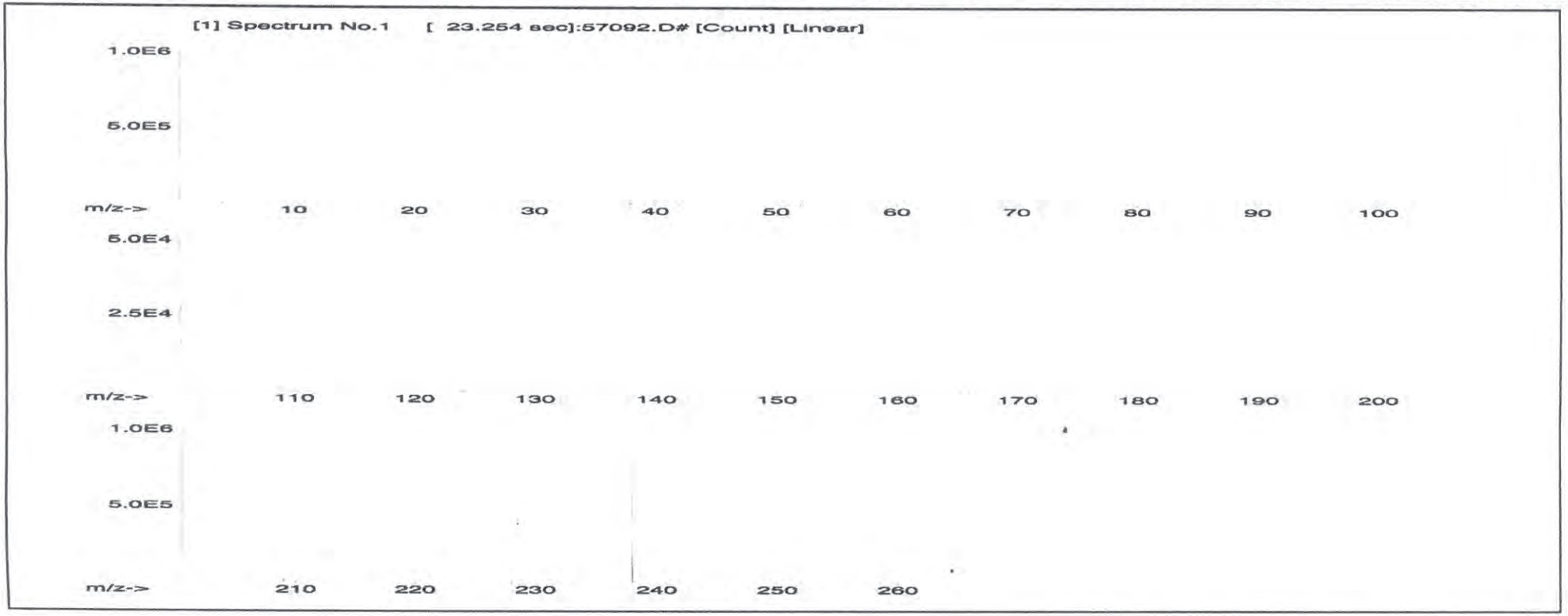
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	**2.1**	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



574

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (μg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5230 R 07/05/22 BH

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575

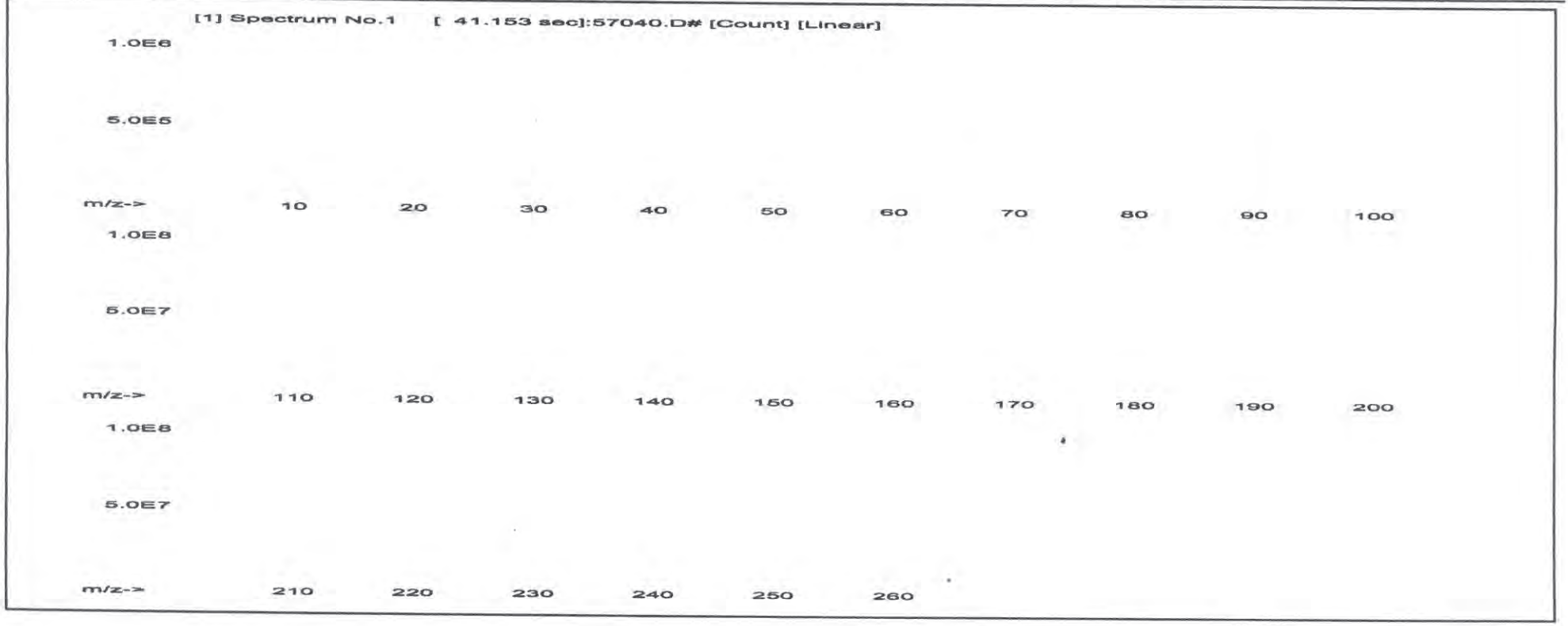
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57040**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Zirconium (Zr)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	300.0	0.084	1000	10000.3	**1000.0**	**2.1**	13520-92-8	NA	NA	NA



576

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
306 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

R: 7/6/22 M5231

tel: 800.669.6799 / 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	R2-MEB695520
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium,	Beryllium,
Bismuth,	Cerium,
Cobalt,	Indium,
Lithium,	Nickel,
Lead,	Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.05 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.04 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.00 ± 0.04 µg/mL
Nickel, Ni	10.00 ± 0.04 µg/mL	Uranium, U	10.00 ± 0.05 µg/mL

Density: 1.023 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	991212
Bi	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 04, 2024

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Wednesday, Oct 14, 2020 by utruong. Revision was made for the following reason: Added missing isotopic abundance for Uranium..

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 (B4)

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581

CERTIFIED WEIGHT REPORT:

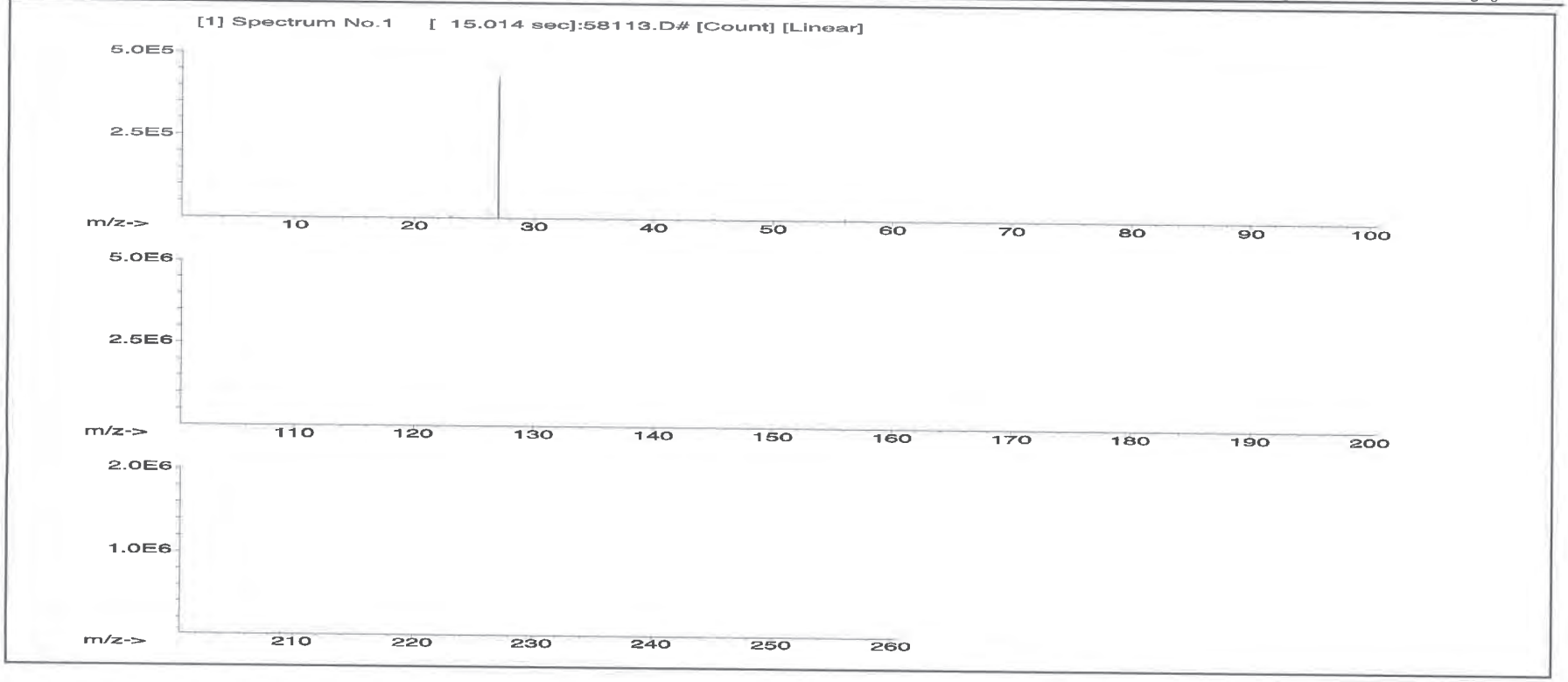
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
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As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58126**
Lot Number: **020422** M5298
Description: **Iron (Fe)**

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB

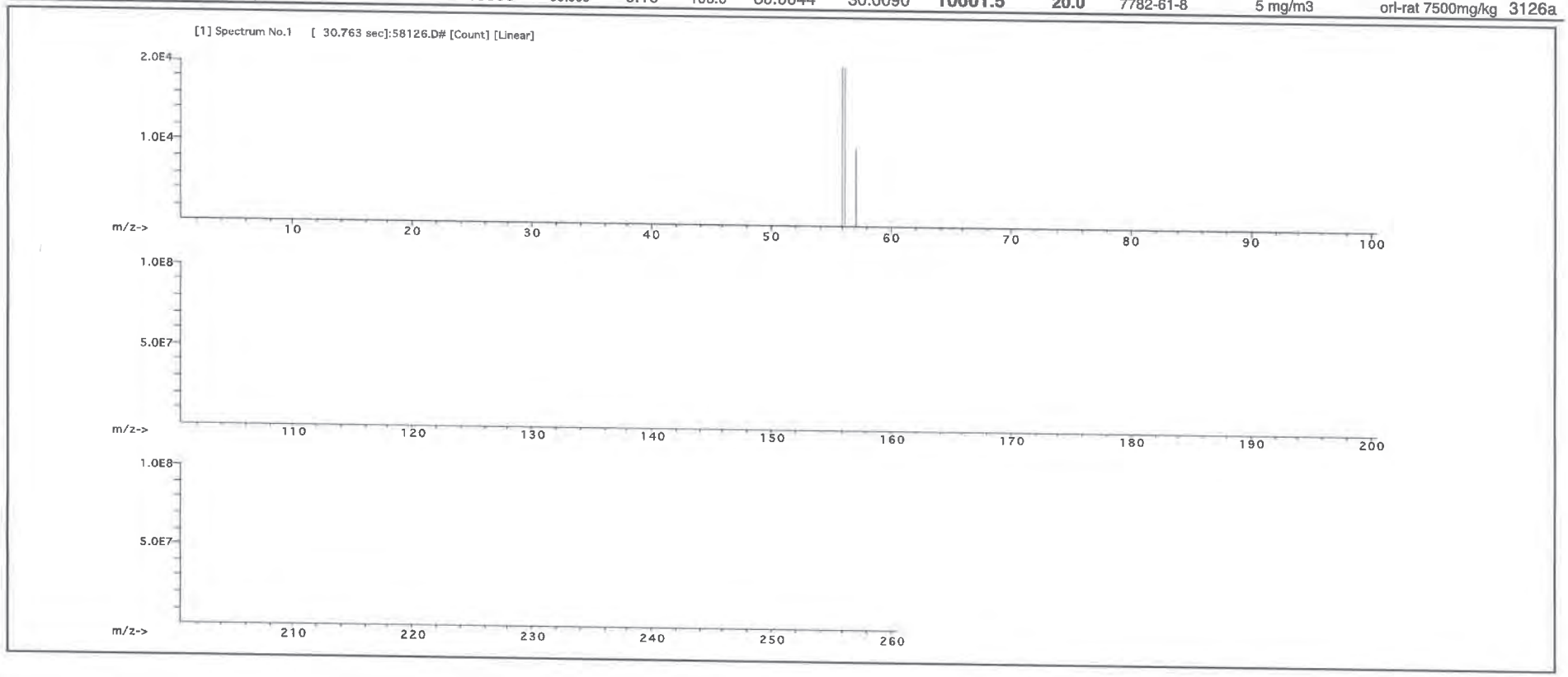
	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

Weight shown below was diluted to (mL): 3000.41 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



585

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

586

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

591

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

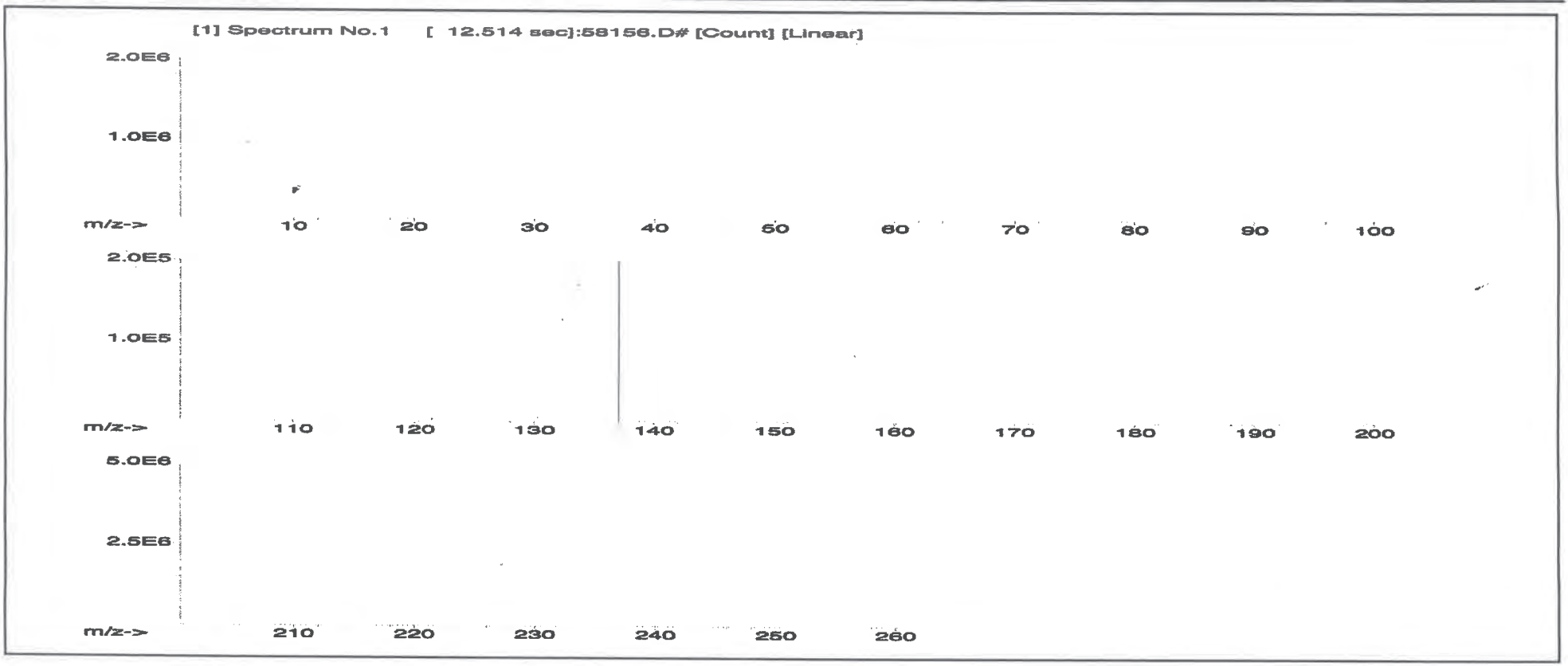
		Lot #	
Solvent:		20510011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea: Bismuth, Indium, Rhodium, Terbium, Holmium, 6-Lithium, Scandium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael J. Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/14/23 M5468

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 120922
Description: Magnesium (Mg)

Expiration Date: 120925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	60.0 (mL)	Nitric Acid

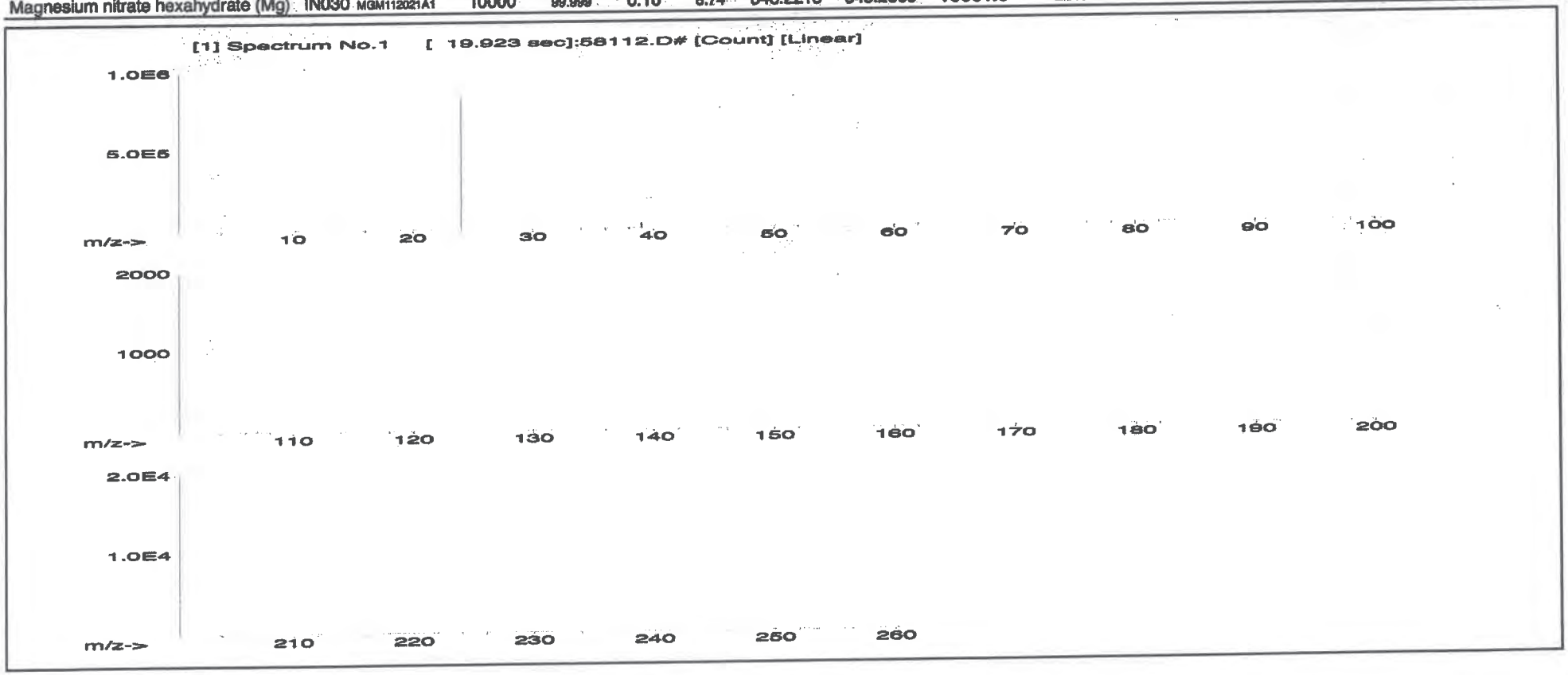
Giovanni Esposito

Formulated By:	Giovanni Esposito	120922
Reviewed By:	Pedro L. Rentas	120922

Pedro Rentas

009

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

601

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

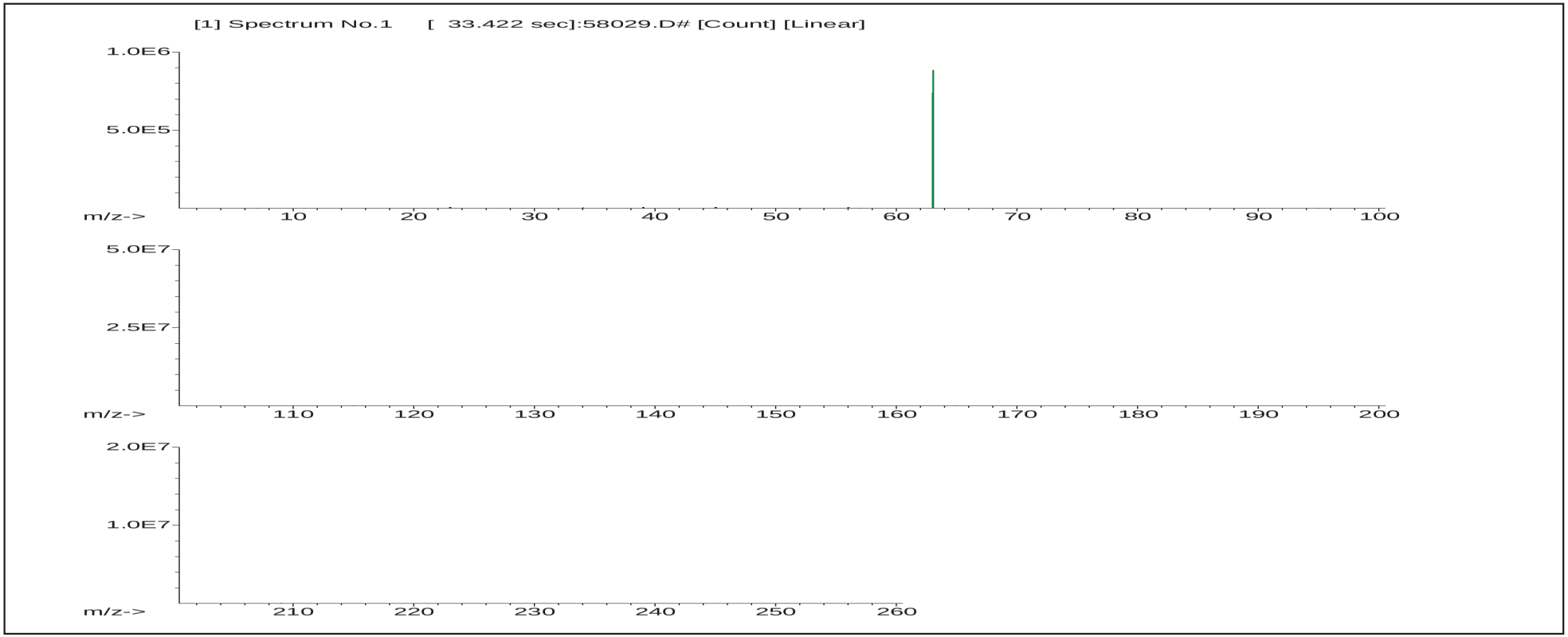
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	20510011	Nitric Acid	
Lot Number:	**102622**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102625			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Eli Aliaga	102622
Reviewed By:	Pedro L. Rentas	102622

602

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



603

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5555 M5556 M5557
M5558

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

M5575 M5576 M5577
M5578 M5579 M5580

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

RE 03/16/23, M5469, M5470, M5471, M5472

625

CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

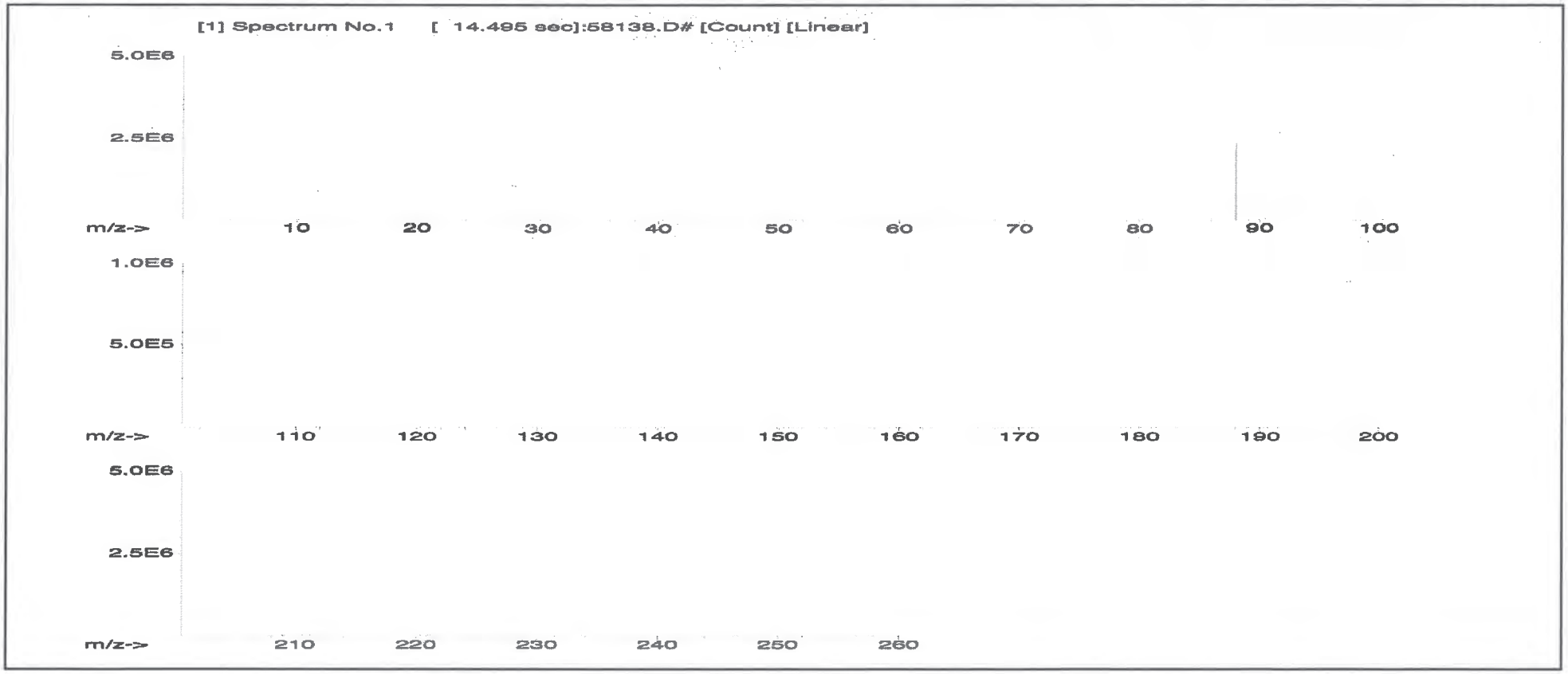
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

Formulated By: Lawrence Barry 082922

Reviewed By: Pedro L. Rentas 082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



626

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 03/16/23 M5473 M5474, M5475, M5476

627

CERTIFIED WEIGHT REPORT:

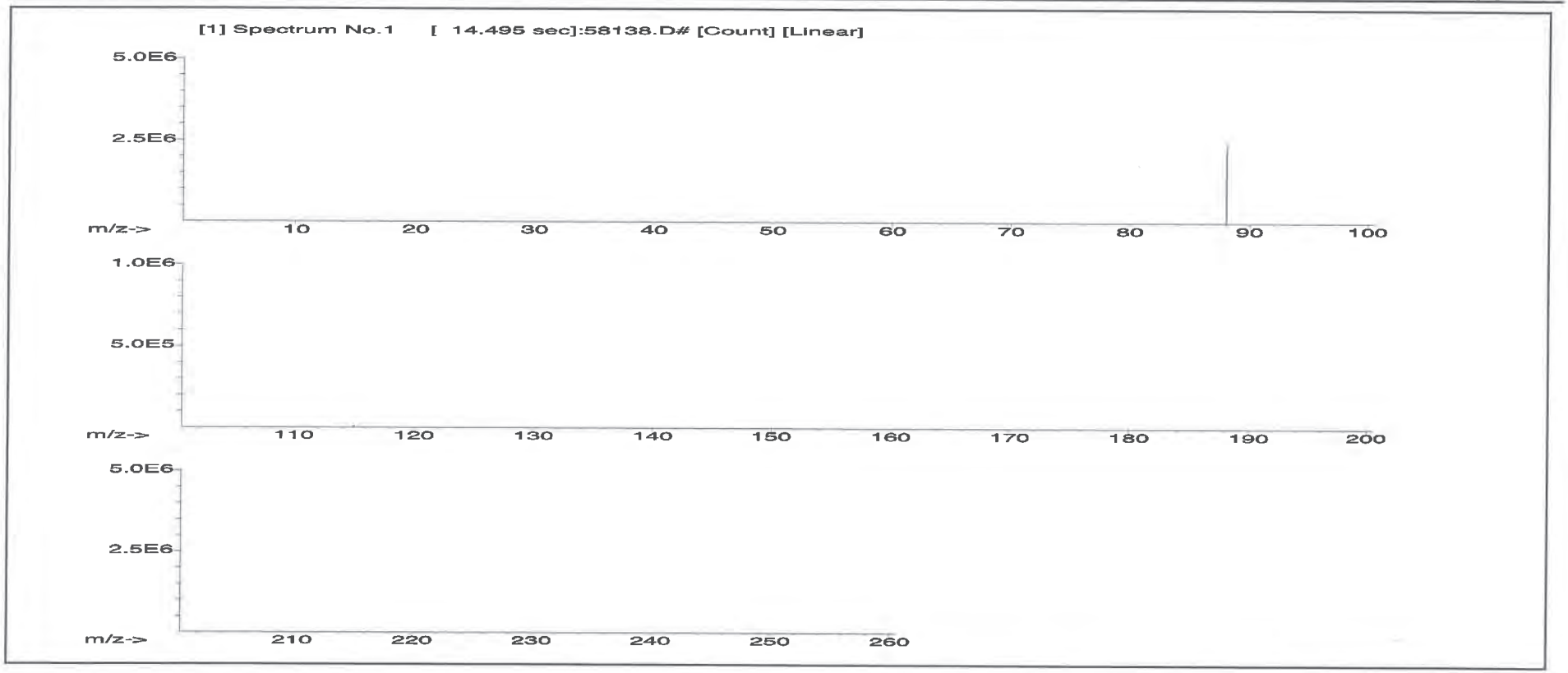
Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



628

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CHEMTECH

Water Metals Preparation Sheet

PB153925

SOP ID : M200.8-Trace Elements-21, MSFAM01.1-Metals ICPMS-2

SDG No : MH0F91

Start Digest Date: 06/30/2023 **Time :** 12:30 **Temp :** 93 °C

Matrix : WATER

End Digest Date: 06/30/2023 **Time :** 14:30 **Temp :** 93 °C

Pippete ID: ICP A

Digestion tube ID: M5586

Balance ID : N/A

Block thermometer ID: MET-DIG.#4

Filter paper ID : N/A

Dig Technician Signature: AJ

pH Strip ID : M4909

Supervisor Signature: BH

Hood ID : #3

Block ID: **1.** HOT BLOCK #4 **2.** N/A

Temp : **1.** 93°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50	MP75814
Spike Sol. B	0.50	MP75816
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	1.00	MP75962
1:1 HCL	0.50	MP74325
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/30/23 14:40	AJ/Dig.lab	BH /Metals lab
	Preparation Group	Analysis Group

CHEMTECH

Water Metals Preparation Sheet

PB153925

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
O3292-03	MH0F91	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	4-12
O3292-04	MH0F92	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	13
O3292-05	MH0F93	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	14
O3292-06	MH0F93D	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	15
O3292-07	MH0F93S	<2	50	50	Colorless	Colorless	Clear	Clear	MP75816	16
O3292-08	MH0F94	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	17
O3292-09	MH0F95	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	18
O3292-10	MH0F89	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	19
O3292-11	MH0F90	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	20
PB153925BL	PBW925	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	21
PB153925BS	LCS925	<2	50	50	Colorless	Colorless	Clear	Clear	MP75814	22

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76246
Chk Standard	MP76136,MP76135

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE076	TUNE	07/14/23 13:05		Jaswal	OK
2	S00	S0	CAL1	07/14/23 13:46		Jaswal	OK
3	S02	S02	CAL3	07/14/23 13:49		Jaswal	OK
4	S03	S03	CAL4	07/14/23 13:52		Jaswal	OK
5	S04	S04	CAL5	07/14/23 13:55		Jaswal	OK
6	S05	S05	CAL6	07/14/23 13:58		Jaswal	OK
7	S06	S06	CAL7	07/14/23 14:01		Jaswal	OK
8	S07	S07	CAL8	07/14/23 14:04		Jaswal	OK
9	S08	S08	CAL9	07/14/23 14:07		Jaswal	OK
10	ICV076	ICV076	ICV	07/14/23 14:20		Jaswal	OK
11	ICB076	ICB076	ICB	07/14/23 14:23		Jaswal	OK
12	ICSA076	ICSA076	ICSA	07/14/23 14:46		Jaswal	OK
13	ICSAB076	ICSAB076	ICSAB	07/14/23 14:50		Jaswal	OK
14	CCV029	CCV029	CCV	07/14/23 14:53		Jaswal	OK
15	CCB029	CCB029	CCB	07/14/23 14:56		Jaswal	OK
16	PB154039BL	PBW039	MB	07/14/23 14:59		Jaswal	OK
17	PB154039BS	LCS039	LCS	07/14/23 15:02		Jaswal	OK
18	O3524-01	MH0F96	SAM	07/14/23 15:05		Jaswal	OK
19	O3524-02	MH0F97	SAM	07/14/23 15:08		Jaswal	OK
20	O3524-03	MH0F97D	DUP	07/14/23 15:11		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76246
Chk Standard	MP76136,MP76135

21	O3524-02L	MH0F97L	SD	07/14/23 15:14		Jaswal	OK
22	O3524-04	MH0F97S	MS	07/14/23 15:17		Jaswal	OK
23	O3524-05	MH0F98	SAM	07/14/23 15:20		Jaswal	OK
24	O3524-06	MH0F99	SAM	07/14/23 15:23		Jaswal	OK
25	O3524-07	MH0FA0	SAM	07/14/23 15:26		Jaswal	OK
26	CCV030	CCV030	CCV	07/14/23 15:48		Jaswal	OK
27	CCB030	CCB030	CCB	07/14/23 15:52		Jaswal	OK
28	PB153894BL	PBS894	MB	07/14/23 15:55		Jaswal	OK
29	PB153894BS	LCS894	LCS	07/14/23 15:58		Jaswal	OK
30	O3460-01	A46A2	SAM	07/14/23 16:01		Jaswal	OK
31	O3460-03	A46L3	SAM	07/14/23 16:04		Jaswal	OK
32	O3460-04	A46L8	SAM	07/14/23 16:07		Jaswal	OK
33	O3460-05	A46L9	SAM	07/14/23 16:10		Jaswal	OK
34	O3460-06	A46M0	SAM	07/14/23 16:13		Jaswal	OK
35	O3460-07	A46M1	SAM	07/14/23 16:16		Jaswal	OK
36	O3460-08	A46M2	SAM	07/14/23 16:19		Jaswal	OK
37	O3460-09	A46M3	SAM	07/14/23 16:22		Jaswal	OK
38	O3460-10	A46M5	SAM	07/14/23 16:25		Jaswal	OK
39	O3460-11	A46M6	SAM	07/14/23 16:28		Jaswal	OK
40	O3460-12	A46M7	SAM	07/14/23 16:31		Jaswal	OK
41	O3460-13	A46N0	SAM	07/14/23 16:34		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76246
Chk Standard	MP76136,MP76135

42	O3460-14	A46M4	SAM	07/14/23 16:37		Jaswal	OK
43	O3460-15	A46M8	SAM	07/14/23 16:40		Jaswal	OK
44	O3460-16	A46M9	SAM	07/14/23 16:43		Jaswal	OK
45	O3460-17	A46N1	SAM	07/14/23 16:46		Jaswal	OK
46	O3460-18	A46N2	SAM	07/14/23 16:49		Jaswal	OK
47	O3460-19	A46K5	SAM	07/14/23 16:52		Jaswal	OK
48	O3460-20	A46K5D	DUP	07/14/23 16:55		Jaswal	OK
49	O3460-19L	A46K5L	SD	07/14/23 16:58		Jaswal	OK
50	O3460-21	A46K5S	MS	07/14/23 17:01		Jaswal	OK
51	O3460-22	A46L4	SAM	07/14/23 17:04		Jaswal	OK
52	O3460-23	A46L5	SAM	07/14/23 17:07		Jaswal	OK
53	O3460-24	A46L6	SAM	07/14/23 17:10		Jaswal	OK
54	CCV031	CCV031	CCV	07/14/23 17:27		Jaswal	OK
55	CCB031	CCB031	CCB	07/14/23 17:30		Jaswal	OK
56	PB153925BL	PBW925	MB	07/14/23 17:51		Jaswal	OK
57	PB153925BS	LCS925	LCS	07/14/23 17:54		Jaswal	OK
58	O3292-03	MH0F91	SAM	07/14/23 17:57		Jaswal	OK
59	O3292-04	MH0F92	SAM	07/14/23 18:00		Jaswal	OK
60	O3292-05	MH0F93	SAM	07/14/23 18:03		Jaswal	OK
61	O3292-06	MH0F93D	DUP	07/14/23 18:06		Jaswal	OK
62	O3292-05L	MH0F93L	SD	07/14/23 18:09		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76246
Chk Standard	MP76136,MP76135

63	O3292-07	MH0F93S	MS	07/14/23 18:12		Jaswal	OK
64	O3292-09	MH0F95	SAM	07/14/23 18:21		Jaswal	OK
65	O3292-08	MH0F94	SAM	07/14/23 19:01		Jaswal	OK
66	O3292-10	MH0F89	SAM	07/14/23 19:08		Jaswal	OK
67	O3292-11	MH0F90	SAM	07/14/23 19:11		Jaswal	OK
68	CCV032	CCV032	CCV	07/14/23 19:18		Jaswal	OK
69	CCB032	CCB032	CCB	07/14/23 19:23		Jaswal	OK

EPA SAMPLE NO.

MH0F89

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-10

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	06/30/2023	1833

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F90

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-11

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	06/30/2023	1835

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F91

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-03

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	06/30/2023	1817

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F92

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-04

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	06/30/2023	1820

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F93

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-05

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	06/30/2023	1822

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F94

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-08

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	06/30/2023	1829

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F98

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 65HERH20D0011

Lab Code: CHM Case No.: 80586 MA No. : SDG No.: MH0F91

Matrix: Water Lab Sample ID: O3292-09

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	06/30/2023	1531

NOTE: Hardness (total) is reported in mg/L

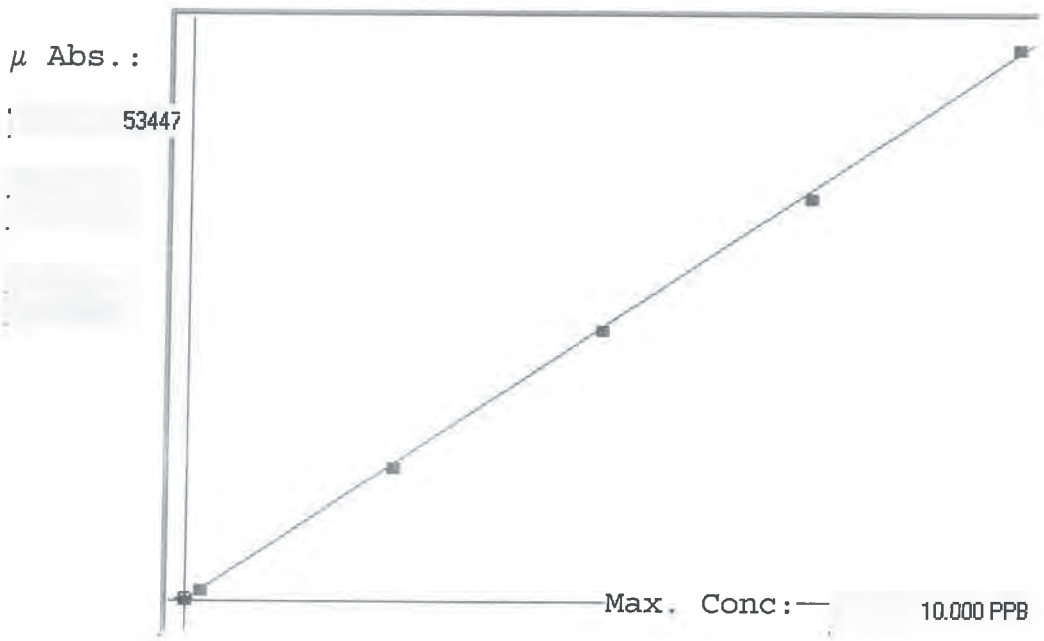
Comments:

Reviewed By:bin
On:6/30/2023 11:51:04 PM
Inst Id :CV1

LB126290

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.8916e-004 slope

C= -5.1475e-003 y=intercept

Rho= 0.9998200

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%ob
0.00	0.000	0.054	0.054	314	0.000	314					—
0.05	0.050					302	0				10
0.20	0.200	0.219	0.019	1186	0.0 %	1186					-2
2.50	2.500	2.462	-0.038	13041	0.0 %	13041					-1
5.00	5.000	4.974	-0.026	26325	0.0 %	26325					-2
7.50	7.500	7.386	-0.114	39074	0.0 %	39074					1
10.0	10.000	10.105	0.105	53447	0.0 %	53447					

Reviewed By:bin
On:6/30/2023 11:51:04 PM
Inst Id :CV1

LB126290

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
0	S0	314	-	0	SFAM01.1	PPB	6/30/2023 17:47	Std
0.2	S01	1186	-	0.2	SFAM01.1	PPB	6/30/2023 17:49	Std
2.5	S02	13041	-	2.5	SFAM01.1	PPB	6/30/2023 17:51	Std
5	S03	26325	-	5	SFAM01.1	PPB	6/30/2023 17:54	Std
7.5	S04	39074	-	7.5	SFAM01.1	PPB	6/30/2023 17:56	Std
10	S05	53447	-	10	SFAM01.1	PPB	6/30/2023 18:01	Std
ICV052	ICV052	19999	3.7778	-	SFAM01.1	PPB	6/30/2023 18:06	SMPL
ICB052	ICB052	187	0.0302	-	SFAM01.1	PPB	6/30/2023 18:08	SMPL
CCV070	CCV070	26296	4.9689	-	SFAM01.1	PPB	6/30/2023 18:11	SMPL
CCB070	CCB070	185	0.0298	-	SFAM01.1	PPB	6/30/2023 18:13	SMPL
PB153939BL	PBW939	304	0.0524	-	SFAM01.1	PPB	6/30/2023 18:15	SMPL
O3292-03	MH0F91	350	0.0611	-	SFAM01.1	PPB	6/30/2023 18:17	SMPL
O3292-04	MH0F92	345	0.0601	-	SFAM01.1	PPB	6/30/2023 18:20	SMPL
O3292-05	MH0F93	355	0.062	-	SFAM01.1	PPB	6/30/2023 18:22	SMPL
O3292-06	MH0F93D	370	0.0648	-	SFAM01.1	PPB	6/30/2023 18:24	SMPL
O3292-07	MH0F93S	5238	0.9856	-	SFAM01.1	PPB	6/30/2023 18:26	SMPL
O3292-08	MH0F94	467	0.0832	-	SFAM01.1	PPB	6/30/2023 18:29	SMPL
O3292-09	MH0F95	431	0.0764	-	SFAM01.1	PPB	6/30/2023 18:31	SMPL
O3292-10	MH0F89	357	0.0624	-	SFAM01.1	PPB	6/30/2023 18:33	SMPL
O3292-11	MH0F90	383	0.0673	-	SFAM01.1	PPB	6/30/2023 18:35	SMPL
CCV071	CCV071	25912	4.8962	-	SFAM01.1	PPB	6/30/2023 18:38	SMPL
CCB071	CCB071	165	0.0261	-	SFAM01.1	PPB	6/30/2023 18:40	SMPL

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O3292

Test : Mercury

Prepbatch ID : PB153939,

Sequence ID/Qc Batch ID: LB126290,

Standard ID :
MP75996,MP75997,MP75998,MP75999,MP76082,MP76083,MP76084,MP76085,MP76086,MP76087,MP76088,MP76089,MP76091,MP76092,MP76093,MP76097,

Chemical ID :
M4371,M4397,M4459,M4916,M4920,M5062,M5176,M5528,M5597,M5603,W2606,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP75996	06/24/2023	12/21/2023	Mohan Bera	None	None	Sarabjit Jaswal 06/25/2023

FROM 1900.00000ml of M5176 + 800.00000ml of M5597 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP75997	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP75998	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000ml of M4397 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP75999	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4459 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76082	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 1.00000ml of M5597 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP76083	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5597 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP76084	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5597 + 247.30000ml of W2606 + 0.20000ml of MP76082 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP76085	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5597 + 245.00000ml of W2606 + 2.50000ml of MP76082 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP76086	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5597 + 242.50000ml of W2606 + 5.00000ml of MP76082 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP76087	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5597 + 240.00000ml of W2606 + 7.50000ml of MP76082 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76088	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5597 + 237.50000ml of W2606 + 10.00000ml of MP76082 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP76089	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5597 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76091	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 2.50000ml of M5597 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76092	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5597 + 10.00000ml of MP76082 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76093	06/30/2023	07/01/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/01/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5597 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP76097	06/30/2023	07/01/2023	Mohan Bera	METALS_SCALE_2 (M SC-2)	None	Sarabjit Jaswal 07/01/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5603 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000227540	09/24/2025	08/16/2019 / RICHARD	07/17/2019 / RICHARD	M4397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	12/26/2026	05/29/2022 /	04/05/2022 / william	M5176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC
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656

Potassium Permanganate
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination

avantor™ | J.T.Baker®

M4397
Supplied – 07.17.19
Opened – 08.16.19
exp – 09.24.25

Material No.: 3227-05
Batch No.: 0000227540
Manufactured Date: 2018/09/26
Retest Date: 2025/09/24
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay ($KMnO_4$)	>= 99.0 %	99.0
ACS - Insoluble Matter	<= 0.2 %	< 0.1
ACS - Chloride and Chlorate (as Cl)	<= 0.005 %	0.005
ACS - Sulfate (SO_4)	<= 0.02 %	0.02
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	0.004

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

RS
08.16.19

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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Certificate of Analysis
ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4917 - 20
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

665

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M5528-32
MB

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

CHEMTECH

Water Mercury Preparation Sheet

PB153939

SOP ID : M7470A-Mercury-18, MSFAM01.1-Mercury in Water-2

SDG No : MH0F91

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#1 2. N/A

Temp : 1. 94°C 2. N/A

Start Digest Date: 06/30/2023 **Time :** 13:50 **Temp :** 94 °C

End Digest Date: 06/30/2023 **Time :** 15:50 **Temp :** 95 °C

Digestion tube ID: M5593

Block thermometer ID: HG-DIG#1

Dig Technician Signature: NB

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP76089
CCV	100mL	MP76092
Matrix Spike	0.40mL	MP76082
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	7.5mL	MP75996
KMnO4	15.0mL	MP75997
K2S2O8	8.0mL	MP75998
Hydroxylamine HCL	6.0mL	MP75999
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP76083
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP76084
2.5 ppb	S2.5	100mL	MP76085
5.0 ppb	S5.0	100mL	MP76086
7.5 ppb	S7.5	100mL	MP76087
10.0 ppb	S10.0	100mL	MP76088
ICV	ICV	100mL	MP76089
ICB	ICB	100mL	MP76091
CCV	CCV	100mL	MP76092
CCB	CCB	100mL	MP76093
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/30/23 @ 16:20	NB - Dig. Lab	NB - Metal Lab
	Preparation Group	Analysis Group

CHEMTECH

Water Mercury Preparation Sheet

PB153939

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
D3292-03	MH0F91	100	100	<2	N/A	1-1
D3292-04	MH0F92	100	100	<2	N/A	2
D3292-05	MH0F93	100	100	<2	N/A	3
D3292-06	MH0F93D	100	100	<2	N/A	4
D3292-07	MH0F93S	100	100	<2	MP76082	5
D3292-08	MH0F94	100	100	<2	N/A	6
D3292-09	MH0F95	100	100	<2	N/A	7
D3292-10	MH0F89	100	100	<2	N/A	8
D3292-11	MH0F90	100	100	<2	N/A	9
PB153939BL	PBW939	100	100	<2	N/A	10

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126290

Review By	Sarabjit Jaswal	Review On	6/30/2023 11:50:46 PM
Supervise By	Bin He	Supervise On	6/30/2023 11:51:04 PM

STD. NAME	STD REF.#
ICAL Standard	MP76083,MP76084,MP76085,MP76086,MP76087,MP76088
ICV Standard	MP76089
CCV Standard	MP76092
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76091,MP76093,MP76097

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/30/23 17:47		mohan	OK
2	S0.2	S01	CAL2	06/30/23 17:49		mohan	OK
3	S2.5	S02	CAL3	06/30/23 17:51		mohan	OK
4	S5	S03	CAL4	06/30/23 17:54		mohan	OK
5	S7.5	S04	CAL5	06/30/23 17:56		mohan	OK
6	S10	S05	CAL6	06/30/23 18:01		mohan	OK
7	ICV052	ICV052	ICV	06/30/23 18:06		mohan	OK
8	ICB052	ICB052	ICB	06/30/23 18:08		mohan	OK
9	CCV070	CCV070	CCV	06/30/23 18:11		mohan	OK
10	CCB070	CCB070	CCB	06/30/23 18:13		mohan	OK
11	PB153939BL	PBW939	MB	06/30/23 18:15		mohan	OK
12	O3292-03	MH0F91	SAM	06/30/23 18:17		mohan	OK
13	O3292-04	MH0F92	SAM	06/30/23 18:20		mohan	OK
14	O3292-05	MH0F93	SAM	06/30/23 18:22		mohan	OK
15	O3292-06	MH0F93D	DUP	06/30/23 18:24		mohan	OK
16	O3292-07	MH0F93S	MS	06/30/23 18:26		mohan	OK
17	O3292-08	MH0F94	SAM	06/30/23 18:29		mohan	OK
18	O3292-09	MH0F95	SAM	06/30/23 18:31		mohan	OK
19	O3292-10	MH0F89	SAM	06/30/23 18:33		mohan	OK
20	O3292-11	MH0F90	SAM	06/30/23 18:35		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126290

Review By	Sarabjit Jaswal	Review On	6/30/2023 11:50:46 PM
Supervise By	Bin He	Supervise On	6/30/2023 11:51:04 PM

STD. NAME	STD REF.#
ICAL Standard	MP76083,MP76084,MP76085,MP76086,MP76087,MP76088
ICV Standard	MP76089
CCV Standard	MP76092
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76091,MP76093,MP76097

21	CCV071	CCV071	CCV	06/30/23 18:38		mohan	OK
22	CCB071	CCB071	CCB	06/30/23 18:40		mohan	OK

Copy

Original Documents are included in CSF M1-DF-D2

Signature

6/27/23

Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 60.60 LB
CAD: 6754017/SSF02827
DIMS: 24x15x15 IN
BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092
(908) 728-3140 REF: HIGHWAY 24
INV: DEPT:
PO:

6/27/23
13:30
18-3

FedEx Express

J23202304050 1 uv

2 of 6

TUE - 27 JUN 4:30P
** 2DAY **

MPS# 0263 7802 8789 1526
Mstr# 7802 8789 1515 0201

TE KBCA

07092
NJ-US EWR

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3292	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Sohil
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	6/30/2023 9:42:30 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3292-03	MH0F91	Water	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-04	MH0F92	Water	06/13/2023		DUP				
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-05	MH0F93	Water	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-06	MH0F93D	Water	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-07	MH0F93S	Water	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-08	MH0F94	Water	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-09	MH0F95	Water	06/13/2023		FB				
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-10	MH0F89	Water	06/13/2023		EB				
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3292-11	MH0F90	Water	06/13/2023		EB				
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153925 **WorkList ID :** 171518 **Department :** Digestion **Date :** 06-30-2023 12:00:45

680

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3292-03	MH0F91	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-04	MH0F92	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-05	MH0F93	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-06	MH0F93D	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-07	MH0F93S	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-08	MH0F94	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-09	MH0F95	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-10	MH0F89	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3292-11	MH0F90	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS

Date/Time 6/30/23 12:05
Raw Sample Received by: HIDig. Lab
Raw Sample Relinquished by: IT (SM)

Date/Time 6/30/23 12:40
Raw Sample Received by: IT (SM)
Raw Sample Relinquished by: HIDig. Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3292_HgW **WorkList ID :** 171540 **Department :** Digestion **Date :** 06-30-2023 16:20:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3292-03	MH0F91	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-04	MH0F92	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-05	MH0F93	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-06	MH0F93D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-07	MH0F93S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-08	MH0F94	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-09	MH0F95	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-10	MH0F89	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3292-11	MH0F90	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG

681

Date/Time 6/30/23 @ 13:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: CP (SMS)

Date/Time 6/30/23 @ 14:35

Raw Sample Received by: CP (SMS)

Raw Sample Relinquished by: [illegible]

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0F02

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0F02	O3446-01		X		
MH0F02D	O3446-02		X		
MH0F02S	O3446-03		X		
MH0F03	O3446-04		X		
MH0F07	O3446-05		X		
MH0F08	O3446-06		X		
MH0F09	O3446-07		X		
MH0F10	O3446-08		X		
MH0F11	O3446-09		X		
MH0F12	O3446-10		X		
MH0F13	O3446-11		X		
MH0F14	O3446-12		X		
MH0F27	O3446-13		X		
MH0F28	O3446-14		X		
MH0F29	O3446-15		X		
MH0F30	O3446-16		X		
MH0F31	O3446-17		X		
MH0F32	O3446-18		X		
MH0F33	O3446-19		X		
MH0F34	O3446-20		X		
MH0F35	O3446-21		X		
MH0F36	O3446-22		X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name:

Date: 7/17/2023 Title:

APPROVED

By Nimisha Pandya QA/QC Supervisor at 3:20 pm, Jul 17, 2023

68HERH20D0011 SDG # MH0F02

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS01-0-1	MH0F02	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1008, 1009 (2)	1	06/13/2023 10:00	1 1 7
HWY-SS01-1-6	MH0F03	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1012, 1013 (2)	1	06/13/2023 10:00	1 2 7
HWY-SS02-0-1	MH0F07	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1027, 1028 (2)	2	06/13/2023 14:50	1 3
HWY-SS02-1-6	MH0F08	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1030, 1031 (2)	2	06/13/2023 14:50	1 4
HWY-SS03-0-1	MH0F09	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1033, 1034 (2)	3	06/13/2023 07:45	1 5
HWY-SS03-1-6	MH0F10	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1036, 1037 (2)	3	06/13/2023 07:45	1 6
HWY-SS04-0-1	MH0F11	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1039, 1040 (2)	4	06/13/2023 15:45	1 7
HWY-SS04-1-6	MH0F12	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1042, 1043 (2)	4	06/13/2023 15:45	1 8
HWY-SS05-0-1	MH0F13	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1045, 1046 (2)	5	06/13/2023 12:30	1 9
HWY-SS05-1-6	MH0F14	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1048, 1049 (2)	5	06/13/2023 12:30	1 10

Special Instructions: MS/MSD samples are as follows: HWY-SS01-0-1, HWY-SS01-1-6, HWY-SS11-0-1, HWY-SS11-1-6, HWY-SS33-0-1, HWY-SS33-1-6
6 total coolers.

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	IR-Cem #1
					Custody Seal Intact
					no temp Blank
					17.8°C; 20.1°C; 21.2°C; 19.3°C; 19.1°C

68HERH20D0011 SDG # MH0F02

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS13-0-1	MH0F27	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1087, 1088 (2)	13	06/12/2023 15:15	2 19
HWY-SS13-1-6	MH0F28	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1090, 1091 (2)	13	06/12/2023 15:15	2 12
HWY-SS14-0-1	MH0F29	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1093, 1094 (2)	14	06/12/2023 12:15	2 13
HWY-SS14-1-6	MH0F30	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1096, 1097 (2)	14	06/12/2023 12:15	2 14
HWY-SS15-0-1	MH0F31	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1099, 1100 (2)	15	06/13/2023 09:27	2 15
HWY-SS15-1-6	MH0F32	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1102, 1103 (2)	15	06/13/2023 09:27	2 16
HWY-SS16-0-1	MH0F33	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1105, 1106 (2)	16	06/13/2023 09:00	2 17
HWY-SS16-1-6	MH0F34	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1108, 1109 (2)	16	06/13/2023 09:00	2 18
HWY-SS17-0-1	MH0F35	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1111, 1112 (2)	17	06/13/2023 11:40	3 19
HWY-SS17-1-6	MH0F36	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1114, 1115 (2)	17	06/13/2023 11:40	3 20

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	IR-Cooler # 1
					Custody Seal Intact
					No temp Blank
					17.8; 20.1; 21.2; 19.3; 19.1

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 3
Received By (Print Name) Cassandra Reina		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F02	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891515 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	17.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F02	N/A	1008,1009	O3446-01	Intact
2	MH0F02D	N/A	1008,1009	O3446-02	Intact
3	MH0F02S	N/A	1008,1009	O3446-03	Intact
4	MH0F03	N/A	1012,13	O3446-04	Intact
5	MH0F07	N/A	1027,28	O3446-05	Intact
6	MH0F08	N/A	1030,31	O3446-06	Intact
7	MH0F09	N/A	1033,34	O3446-07	Intact
8	MH0F10	N/A	1036,37	O3446-08	Intact
9	MH0F11	N/A	1039,40	O3446-09	Intact
10	MH0F12	N/A	1042,43	O3446-10	Intact
11	MH0F13	N/A	1045,46	O3446-11	Intact
12	MH0F14	N/A	1048,49	O3446-12	Intact
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 2 of 3
Received By (Print Name) Cassanova Rina		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F02	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891537 719 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	20.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH0F27	N/A	1087,88	O3446-13	Intact
2	MH0F28	N/A	1090,91	O3446-14	Intact
3	MH0F29	N/A	1093,94	O3446-15	Intact
4	MH0F30	N/A	1096,97	O3446-16	Intact
5	MH0F31	N/A	1099,1100	O3446-17	Intact
6	MH0F32	N/A	1102,03	O3446-18	Intact
7	MH0F33	N/A	1105,06	O3446-19	Intact
8	MH0F34	N/A	1108,09	O3446-20	Intact
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 3 of 3
Received By (Print Name) Cassandra Rera		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F02	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891548 3
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	21.2 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F35	N/A	1111,12	O3446-21	Intact
2	MH0F36	N/A	1114,15	O3446-22	Intact
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0F02**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	6	✓	
4. CSF Inventory Sheet (DC-2)	7	9	✓	
5. SDG Narrative	10	13	✓	
6. Communication Logs	14	43	✓	
7. Percent Solids Log	44	46	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	47	66	✓	
18. Instrument raw data by instrument in analysis order	67	562	✓	
Other Data				
19. Standard and Reagent Preparation Logs	563	710	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	711	712	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	713	719	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 3)	720	722	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	723	724	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	725	726	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab) N. N. Pandya (Signature) | Nimisha Pandya, Document Control Officer (Print Name & Title) | 7/17/2023 (Date)

Audited by: (EPA) (Signature) | (Print Name & Title) | (Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0F02
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3446

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Metals CLP MS Full = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium & Zinc.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**
Cooler: 17.8^{o}C, 20.1^{o}C, 21.2^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 3: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Issue 4: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 5: Air bill numbers are missing on all COCs.

Issue 6: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 4: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 5: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 6: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis using samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0F02 for Arsenic:

If C = 27.26 ppb
Vf = 500 ml
W = 1.22 g
S = 1(100/100)
DF = 1

$$\text{Concentration (mg/kg)} = 27.26 \times \frac{500}{1.22 \times 1} \times 1 / 1000$$

$$= 11.1721 \text{ mg/kg}$$

$$= 11 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Arsenic. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc

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284 Sheffield Street
Mountainside, NJ 07092

Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya Name: Nimisha Pandya

Date 7/17/2023 Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett'; Britz, Helen; Gambrah, Derrick
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL
Attachments: Revised COC_8-061523-134849-0002_v20230707.pdf

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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Information Technology

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

Tetra Tech | *Leading with Science®*
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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247

303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick

Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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Think Green - Not every email needs to be printed

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen'

<Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,
Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356

Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

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Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, June 30, 2023 2:23 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; epa@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

Updated Record of Communication
This updated ROC is being sent to provide an updated resolution for issue 1.

Good afternoon,

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.
Resolution 1: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis using samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with MS/MSD analysis using sample MH0F80.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
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Samantha.Sosko@gdit.com
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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, June 30, 2023 1:19 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

[External: Use caution with links & attachments]

Hi Samantha, the change from MH0F82 to MH0F81 for lab QC is acceptable for Issue 1.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, June 30, 2023 11:04 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Good morning,

Please advise on the update to Issue 1. The laboratory has changed one of the samples that they want to use for laboratory QC, from MH0F82 to MH0F81.

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with MS/MSD analysis using sample MH0F80.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, June 30, 2023 10:13 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Can you please update below ROC as I sent you the updated issue1 earlier today morning?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: sohil@chemtech.net sohil@chemtech.net
Sent: Friday, June 30, 2023 9:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: deepak@CHEMTECH.NET
Subject: RE: Region 8 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Samantha,

Please see below updated issue1,

Issue1: Lab has received 70 soil samples for ICP-MS and Hg analysis and eight samples are designated for Lab QC on the COC. However, one Lab QC is required for every 20 samples therefore lab would like to confirm that lab will use sample MH0F02,MHOF23,MH0F68 and MH0F81 for Lab QC for this SDG"s .

Isuue2: Lab has received four sediment sample Qc sample are not designated for Lab QC on the COC lab like to use sample MH0F80 lab QC. This sample is not a PE, blank, or rinsate sample.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, June 30, 2023 10:07 AM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net; epa@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

Good morning,

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F82 for laboratory QC.
Resolution 1: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis using samples MH0F02, MHOF23, MH0F68 and MH0F82 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with MS/MSD analysis using sample MH0F80.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate

GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, June 29, 2023 5:43 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

[External: Use caution with links & attachments]

Sounds good, thanks Matt.

Samantha, please proceed and use the MS/MSD samples as recommended by the lab for Issues 1 and 2.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, June 29, 2023 1:13 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Okay, let's go with those suggestions. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, June 29, 2023 1:05:08 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

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We really should get an answer out to the lab today. I'm fairly confident they don't need all the QC samples as request per the COC(s). My advice is going with the lab recommendations.
-dgg
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, June 29, 2023 12:55 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Don,

Thanks for following up. I'm in the field right now until tomorrow (driving back to Denver tomorrow). Is this urgent or can I get you an answer when I get back in town? I just want to check with our quality folks as well as the OSC. Thanks!

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, June 29, 2023 9:34:35 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

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Hi Matt, I'm good with the resolutions that were proposed by the lab but I wanted to confirm this doesn't impact what you are needing or requiring per your QAPP. Let me know if this is acceptable and I will notify Samantha.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, June 29, 2023 9:05 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Good morning,

Please advise on the following issues from CHM.

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F82 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Wednesday, June 28, 2023 8:34 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>
Subject: Region 8 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

Samples received under this case as below discrepancies,

Issue1: Lab has received 70 soil samples for ICP-MS and Hg analysis and eight samples are designated for Lab QC on the COC. However, one Lab QC is required for every 20 samples therefore lab would like to confirm that lab will use sample MH0F02,MHOF23,MH0F68 and MH0F82 for Lab QC for this SDG"s .

Isuue2: Lab has received four sediment sample Qc sample are not designated for Lab QC on the COC lab like to use sample MH0F80 lab QC. This sample is not a PE, blank, or rinsate sample.

Regards,

Deepak Parmar
QA/QC

CHEMTECH

PERCENT SOLID

Supervisor: Sohil
Analyst: JIGNESH
Date: 7/12/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 13:40
In Date: 06/30/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:32
Out Date: 07/01/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126266

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3446-01	MH0F02	1	1.00	1.00	2.00	2.00	100.0	
O3446-02	MH0F02D	2	1.00	1.00	2.00	2.00	100.0	
O3446-03	MH0F02S	3	1.00	1.00	2.00	2.00	100.0	
O3446-04	MH0F03	4	1.00	1.00	2.00	2.00	100.0	
O3446-05	MH0F07	5	1.00	1.00	2.00	2.00	100.0	
O3446-06	MH0F08	6	1.00	1.00	2.00	2.00	100.0	
O3446-07	MH0F09	7	1.00	1.00	2.00	2.00	100.0	
O3446-08	MH0F10	8	1.00	1.00	2.00	2.00	100.0	
O3446-09	MH0F11	9	1.00	1.00	2.00	2.00	100.0	
O3446-10	MH0F12	10	1.00	1.00	2.00	2.00	100.0	
O3446-11	MH0F13	11	1.00	1.00	2.00	2.00	100.0	
O3446-12	MH0F14	12	1.00	1.00	2.00	2.00	100.0	
O3446-13	MH0F27	13	1.00	1.00	2.00	2.00	100.0	
O3446-14	MH0F28	14	1.00	1.00	2.00	2.00	100.0	
O3446-15	MH0F29	15	1.00	1.00	2.00	2.00	100.0	
O3446-16	MH0F30	16	1.00	1.00	2.00	2.00	100.0	
O3446-17	MH0F31	17	1.00	1.00	2.00	2.00	100.0	
O3446-18	MH0F32	18	1.00	1.00	2.00	2.00	100.0	
O3446-19	MH0F33	19	1.00	1.00	2.00	2.00	100.0	
O3446-20	MH0F34	20	1.00	1.00	2.00	2.00	100.0	
O3446-21	MH0F35	21	1.00	1.00	2.00	2.00	100.0	
O3446-22	MH0F36	22	1.00	1.00	2.00	2.00	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WB 126266

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3446 **WorkList ID :** 171511 **Department :** Wet-Chemistry **Date :** 06-30-2023 10:31:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3446-01	MH0F02	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-02	MH0F02D	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-03	MH0F02S	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-04	MH0F03	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-05	MH0F07	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-06	MH0F08	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-07	MH0F09	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-08	MH0F10	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-09	MH0F11	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-10	MH0F12	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-11	MH0F13	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-12	MH0F14	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-13	MH0F27	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/12/2023	Chemtech -SO
O3446-14	MH0F28	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/12/2023	Chemtech -SO
O3446-15	MH0F29	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/12/2023	Chemtech -SO
O3446-16	MH0F30	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/12/2023	Chemtech -SO
O3446-17	MH0F31	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-18	MH0F32	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-19	MH0F33	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-20	MH0F34	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO
O3446-21	MH0F35	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO

Date/Time 06/30/23 12:40

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: CP SM

Date/Time 06/30/23 13:45

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JD (WC)

VB 126266

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3446 **WorkList ID :** 171511 **Department :** Wet-Chemistry **Date :** 06-30-2023 10:31:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3446-22	MH0F36	Solid	Percent Solids	Cool 4 deg C	USEP01	B23	06/13/2023	Chemtech -SO

46

Date/Time 06/30/23 12:40
Raw Sample Received by: JP (WC)
Raw Sample Relinquished by: CP SM

Date/Time 06/30/23 13:45
Raw Sample Received by: CP SM
Raw Sample Relinquished by: JP (WC)

EPA SAMPLE NO.

MH0F02

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-01

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.32	J	07/12/2023	1412
7440-38-2	Arsenic	11	*	07/12/2023	1412
7440-39-3	Barium	160		07/12/2023	1412
7440-41-7	Beryllium	0.75		07/12/2023	1412
7440-43-9	Cadmium	0.63		07/12/2023	1412
7440-47-3	Chromium	9.1		07/12/2023	1412
7440-48-4	Cobalt	6.8		07/12/2023	1412
7440-50-8	Copper	31		07/12/2023	1412
7439-92-1	Lead	35		07/12/2023	1412
7439-96-5	Manganese	410		07/12/2023	1412
7440-02-0	Nickel	13		07/12/2023	1412
7782-49-2	Selenium	0.71	J	07/12/2023	1412
7440-22-4	Silver	0.15	J	07/12/2023	1412
7440-28-0	Thallium	0.14	J	07/12/2023	1412
7440-62-2	Vanadium	24		07/12/2023	1412
7440-66-6	Zinc	130		07/12/2023	1412

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F03

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-04

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.19	J	07/12/2023	1424
7440-38-2	Arsenic	12	*	07/12/2023	1424
7440-39-3	Barium	220		07/12/2023	1424
7440-41-7	Beryllium	0.82		07/12/2023	1424
7440-43-9	Cadmium	0.56		07/12/2023	1424
7440-47-3	Chromium	12		07/12/2023	1424
7440-48-4	Cobalt	9.0		07/12/2023	1424
7440-50-8	Copper	26		07/12/2023	1424
7439-92-1	Lead	37		07/12/2023	1424
7439-96-5	Manganese	420		07/12/2023	1424
7440-02-0	Nickel	19		07/12/2023	1424
7782-49-2	Selenium	0.73	J	07/12/2023	1424
7440-22-4	Silver	0.18	J	07/12/2023	1424
7440-28-0	Thallium	0.18	J	07/12/2023	1424
7440-62-2	Vanadium	28		07/12/2023	1424
7440-66-6	Zinc	110		07/12/2023	1424

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F07

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-05

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.33	J	07/12/2023	1427
7440-38-2	Arsenic	17	*	07/12/2023	1427
7440-39-3	Barium	170		07/12/2023	1427
7440-41-7	Beryllium	0.89		07/12/2023	1427
7440-43-9	Cadmium	0.67		07/12/2023	1427
7440-47-3	Chromium	14		07/12/2023	1427
7440-48-4	Cobalt	8.7		07/12/2023	1427
7440-50-8	Copper	24		07/12/2023	1427
7439-92-1	Lead	28		07/12/2023	1427
7439-96-5	Manganese	900		07/12/2023	1427
7440-02-0	Nickel	19		07/12/2023	1427
7782-49-2	Selenium	0.90	J	07/12/2023	1427
7440-22-4	Silver	0.20	J	07/12/2023	1427
7440-28-0	Thallium	0.19	J	07/12/2023	1427
7440-62-2	Vanadium	30		07/12/2023	1427
7440-66-6	Zinc	160		07/12/2023	1427

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F08

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-06

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.35	J	07/12/2023	1430
7440-38-2	Arsenic	13	*	07/12/2023	1430
7440-39-3	Barium	120		07/12/2023	1430
7440-41-7	Beryllium	0.71		07/12/2023	1430
7440-43-9	Cadmium	0.77		07/12/2023	1430
7440-47-3	Chromium	9.6		07/12/2023	1430
7440-48-4	Cobalt	5.5		07/12/2023	1430
7440-50-8	Copper	16		07/12/2023	1430
7439-92-1	Lead	19		07/12/2023	1430
7439-96-5	Manganese	590		07/12/2023	1430
7440-02-0	Nickel	13		07/12/2023	1430
7782-49-2	Selenium	0.78	J	07/12/2023	1430
7440-22-4	Silver	0.19	J	07/12/2023	1430
7440-28-0	Thallium	0.15	J	07/12/2023	1430
7440-62-2	Vanadium	20		07/12/2023	1430
7440-66-6	Zinc	170		07/12/2023	1430

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F09

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-07

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.49	J	07/12/2023	1433
7440-38-2	Arsenic	26	*	07/12/2023	1433
7440-39-3	Barium	170		07/12/2023	1433
7440-41-7	Beryllium	0.80		07/12/2023	1433
7440-43-9	Cadmium	1.1		07/12/2023	1433
7440-47-3	Chromium	8.4		07/12/2023	1433
7440-48-4	Cobalt	5.2		07/12/2023	1433
7440-50-8	Copper	18		07/12/2023	1433
7439-92-1	Lead	75		07/12/2023	1433
7439-96-5	Manganese	490		07/12/2023	1433
7440-02-0	Nickel	10		07/12/2023	1433
7782-49-2	Selenium	0.42	J	07/12/2023	1433
7440-22-4	Silver	0.46		07/12/2023	1433
7440-28-0	Thallium	0.18	J	07/12/2023	1433
7440-62-2	Vanadium	24		07/12/2023	1433
7440-66-6	Zinc	140		07/12/2023	1433

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F10

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-08

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.36	J	07/12/2023	1435
7440-38-2	Arsenic	25	*	07/12/2023	1435
7440-39-3	Barium	120		07/12/2023	1435
7440-41-7	Beryllium	0.61		07/12/2023	1435
7440-43-9	Cadmium	0.85		07/12/2023	1435
7440-47-3	Chromium	6.9		07/12/2023	1435
7440-48-4	Cobalt	4.1		07/12/2023	1435
7440-50-8	Copper	17		07/12/2023	1435
7439-92-1	Lead	70		07/12/2023	1435
7439-96-5	Manganese	360		07/12/2023	1435
7440-02-0	Nickel	8.7		07/12/2023	1435
7782-49-2	Selenium	0.34	J	07/12/2023	1435
7440-22-4	Silver	0.31	J	07/12/2023	1435
7440-28-0	Thallium	0.15	J	07/12/2023	1435
7440-62-2	Vanadium	18		07/12/2023	1435
7440-66-6	Zinc	110		07/12/2023	1435

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F11

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-09

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.13	J	07/12/2023	1438
7440-38-2	Arsenic	4.6	*	07/12/2023	1438
7440-39-3	Barium	130		07/12/2023	1438
7440-41-7	Beryllium	0.76		07/12/2023	1438
7440-43-9	Cadmium	0.37	J	07/12/2023	1438
7440-47-3	Chromium	6.0		07/12/2023	1438
7440-48-4	Cobalt	3.6		07/12/2023	1438
7440-50-8	Copper	9.1		07/12/2023	1438
7439-92-1	Lead	22		07/12/2023	1438
7439-96-5	Manganese	330		07/12/2023	1438
7440-02-0	Nickel	5.8		07/12/2023	1438
7782-49-2	Selenium	0.43	J	07/12/2023	1438
7440-22-4	Silver	0.093	J	07/12/2023	1438
7440-28-0	Thallium	0.11	J	07/12/2023	1438
7440-62-2	Vanadium	14		07/12/2023	1438
7440-66-6	Zinc	57		07/12/2023	1438

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F12

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-10

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.19	J	07/12/2023	1441
7440-38-2	Arsenic	5.1	*	07/12/2023	1441
7440-39-3	Barium	74		07/12/2023	1441
7440-41-7	Beryllium	0.49		07/12/2023	1441
7440-43-9	Cadmium	0.24	J	07/12/2023	1441
7440-47-3	Chromium	7.3		07/12/2023	1441
7440-48-4	Cobalt	2.9		07/12/2023	1441
7440-50-8	Copper	6.1		07/12/2023	1441
7439-92-1	Lead	20		07/12/2023	1441
7439-96-5	Manganese	200		07/12/2023	1441
7440-02-0	Nickel	5.3		07/12/2023	1441
7782-49-2	Selenium	2.2	U	07/12/2023	1441
7440-22-4	Silver	0.084	J	07/12/2023	1441
7440-28-0	Thallium	0.093	J	07/12/2023	1441
7440-62-2	Vanadium	12		07/12/2023	1441
7440-66-6	Zinc	30		07/12/2023	1441

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F13

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-11

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.22	J	07/12/2023	1444
7440-38-2	Arsenic	5.1	*	07/12/2023	1444
7440-39-3	Barium	140		07/12/2023	1444
7440-41-7	Beryllium	0.98		07/12/2023	1444
7440-43-9	Cadmium	0.62		07/12/2023	1444
7440-47-3	Chromium	8.1		07/12/2023	1444
7440-48-4	Cobalt	5.5		07/12/2023	1444
7440-50-8	Copper	13		07/12/2023	1444
7439-92-1	Lead	28		07/12/2023	1444
7439-96-5	Manganese	440		07/12/2023	1444
7440-02-0	Nickel	16		07/12/2023	1444
7782-49-2	Selenium	0.69	J	07/12/2023	1444
7440-22-4	Silver	0.11	J	07/12/2023	1444
7440-28-0	Thallium	0.19	J	07/12/2023	1444
7440-62-2	Vanadium	19		07/12/2023	1444
7440-66-6	Zinc	96		07/12/2023	1444

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F14

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-12

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.13	J	07/12/2023	1447
7440-38-2	Arsenic	4.5	*	07/12/2023	1447
7440-39-3	Barium	140		07/12/2023	1447
7440-41-7	Beryllium	1.0		07/12/2023	1447
7440-43-9	Cadmium	0.45		07/12/2023	1447
7440-47-3	Chromium	10		07/12/2023	1447
7440-48-4	Cobalt	5.7		07/12/2023	1447
7440-50-8	Copper	11		07/12/2023	1447
7439-92-1	Lead	22		07/12/2023	1447
7439-96-5	Manganese	490		07/12/2023	1447
7440-02-0	Nickel	12		07/12/2023	1447
7782-49-2	Selenium	0.55	J	07/12/2023	1447
7440-22-4	Silver	0.084	J	07/12/2023	1447
7440-28-0	Thallium	0.18	J	07/12/2023	1447
7440-62-2	Vanadium	19		07/12/2023	1447
7440-66-6	Zinc	80		07/12/2023	1447

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F27

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-13

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.1		07/12/2023	1450
7440-38-2	Arsenic	22	*	07/12/2023	1450
7440-39-3	Barium	300		07/12/2023	1450
7440-41-7	Beryllium	1.5		07/12/2023	1450
7440-43-9	Cadmium	1.6		07/12/2023	1450
7440-47-3	Chromium	16		07/12/2023	1450
7440-48-4	Cobalt	6.0		07/12/2023	1450
7440-50-8	Copper	45		07/12/2023	1450
7439-92-1	Lead	280		07/12/2023	1450
7439-96-5	Manganese	580		07/12/2023	1450
7440-02-0	Nickel	13		07/12/2023	1450
7782-49-2	Selenium	0.79	J	07/12/2023	1450
7440-22-4	Silver	0.54		07/12/2023	1450
7440-28-0	Thallium	0.16	J	07/12/2023	1450
7440-62-2	Vanadium	30		07/12/2023	1450
7440-66-6	Zinc	470		07/12/2023	1450

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F28

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-14

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.37	J	07/12/2023	1453
7440-38-2	Arsenic	20	*	07/12/2023	1453
7440-39-3	Barium	210		07/12/2023	1453
7440-41-7	Beryllium	1.0		07/12/2023	1453
7440-43-9	Cadmium	0.80		07/12/2023	1453
7440-47-3	Chromium	12		07/12/2023	1453
7440-48-4	Cobalt	6.6		07/12/2023	1453
7440-50-8	Copper	30		07/12/2023	1453
7439-92-1	Lead	87		07/12/2023	1453
7439-96-5	Manganese	490		07/12/2023	1453
7440-02-0	Nickel	16		07/12/2023	1453
7782-49-2	Selenium	0.67	J	07/12/2023	1453
7440-22-4	Silver	0.30	J	07/12/2023	1453
7440-28-0	Thallium	0.18	J	07/12/2023	1453
7440-62-2	Vanadium	32		07/12/2023	1453
7440-66-6	Zinc	150		07/12/2023	1453

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F29

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-15

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.17	J	07/12/2023	1456
7440-38-2	Arsenic	6.5	*	07/12/2023	1456
7440-39-3	Barium	130		07/12/2023	1456
7440-41-7	Beryllium	0.87		07/12/2023	1456
7440-43-9	Cadmium	0.34	J	07/12/2023	1456
7440-47-3	Chromium	8.1		07/12/2023	1456
7440-48-4	Cobalt	5.3		07/12/2023	1456
7440-50-8	Copper	12		07/12/2023	1456
7439-92-1	Lead	33		07/12/2023	1456
7439-96-5	Manganese	290		07/12/2023	1456
7440-02-0	Nickel	12		07/12/2023	1456
7782-49-2	Selenium	0.36	J	07/12/2023	1456
7440-22-4	Silver	0.23	J	07/12/2023	1456
7440-28-0	Thallium	0.16	J	07/12/2023	1456
7440-62-2	Vanadium	24		07/12/2023	1456
7440-66-6	Zinc	66		07/12/2023	1456

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F30

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-16

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.35	J	07/12/2023	1511
7440-38-2	Arsenic	5.3	*	07/12/2023	1511
7440-39-3	Barium	140		07/12/2023	1511
7440-41-7	Beryllium	1.1		07/12/2023	1511
7440-43-9	Cadmium	0.18	J	07/12/2023	1511
7440-47-3	Chromium	10		07/12/2023	1511
7440-48-4	Cobalt	5.5		07/12/2023	1511
7440-50-8	Copper	10		07/12/2023	1511
7439-92-1	Lead	14		07/12/2023	1511
7439-96-5	Manganese	260		07/12/2023	1511
7440-02-0	Nickel	13		07/12/2023	1511
7782-49-2	Selenium	0.41	J	07/12/2023	1511
7440-22-4	Silver	0.070	J	07/12/2023	1511
7440-28-0	Thallium	0.26	J	07/12/2023	1511
7440-62-2	Vanadium	25		07/12/2023	1511
7440-66-6	Zinc	44		07/12/2023	1511

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F31

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH70D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F07

Matrix: SOIL Lab Sample ID: O3446-12

% Solids: 100 Date Received: 06/72/7073

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
2440-36-0	Antimony	0.31	J	02/17/7073	1514
2440-38-7	Arsenic	4.7	*	02/17/7073	1514
2440-39-3	Barium	88		02/17/7073	1514
2440-41-2	Beryllium	0.59		02/17/7073	1514
2440-43-9	Cadmium	0.57		02/17/7073	1514
2440-42-3	Chromium	5.5		02/17/7073	1514
2440-48-4	Cobalt	7.2		02/17/7073	1514
2440-50-8	Copper	16		02/17/7073	1514
2439-97-1	Lead	57		02/17/7073	1514
2439-96-5	Manganese	180		02/17/7073	1514
2440-07-0	Nickel	4.7		02/17/7073	1514
2287-49-7	Selenium	0.37	J	02/17/7073	1514
2440-77-4	Silver	0.77	J	02/17/7073	1514
2440-78-0	Thallium	0.17	J	02/17/7073	1514
2440-67-7	Vanadium	11		02/17/7073	1514
2440-66-6	Zinc	89		02/17/7073	1514

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F32

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-18

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.25	J	07/12/2023	1517
7440-38-2	Arsenic	3.5	*	07/12/2023	1517
7440-39-3	Barium	58		07/12/2023	1517
7440-41-7	Beryllium	0.48		07/12/2023	1517
7440-43-9	Cadmium	0.38	J	07/12/2023	1517
7440-47-3	Chromium	4.6		07/12/2023	1517
7440-48-4	Cobalt	2.4		07/12/2023	1517
7440-50-8	Copper	11		07/12/2023	1517
7439-92-1	Lead	31		07/12/2023	1517
7439-96-5	Manganese	180		07/12/2023	1517
7440-02-0	Nickel	3.3		07/12/2023	1517
7782-49-2	Selenium	2.1	U	07/12/2023	1517
7440-22-4	Silver	0.14	J	07/12/2023	1517
7440-28-0	Thallium	0.10	J	07/12/2023	1517
7440-62-2	Vanadium	9.3		07/12/2023	1517
7440-66-6	Zinc	55		07/12/2023	1517

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F33

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-19

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.17	J	07/12/2023	1520
7440-38-2	Arsenic	4.9	*	07/12/2023	1520
7440-39-3	Barium	110		07/12/2023	1520
7440-41-7	Beryllium	0.90		07/12/2023	1520
7440-43-9	Cadmium	0.34	J	07/12/2023	1520
7440-47-3	Chromium	6.6		07/12/2023	1520
7440-48-4	Cobalt	4.8		07/12/2023	1520
7440-50-8	Copper	14		07/12/2023	1520
7439-92-1	Lead	27		07/12/2023	1520
7439-96-5	Manganese	330		07/12/2023	1520
7440-02-0	Nickel	8.1		07/12/2023	1520
7782-49-2	Selenium	0.46	J	07/12/2023	1520
7440-22-4	Silver	0.089	J	07/12/2023	1520
7440-28-0	Thallium	0.14	J	07/12/2023	1520
7440-62-2	Vanadium	13		07/12/2023	1520
7440-66-6	Zinc	93		07/12/2023	1520

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F34

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-20

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.33	J	07/12/2023	1523
7440-38-2	Arsenic	4.1	*	07/12/2023	1523
7440-39-3	Barium	110		07/12/2023	1523
7440-41-7	Beryllium	0.59		07/12/2023	1523
7440-43-9	Cadmium	0.22	J	07/12/2023	1523
7440-47-3	Chromium	15		07/12/2023	1523
7440-48-4	Cobalt	4.8		07/12/2023	1523
7440-50-8	Copper	13		07/12/2023	1523
7439-92-1	Lead	58		07/12/2023	1523
7439-96-5	Manganese	860		07/12/2023	1523
7440-02-0	Nickel	7.6		07/12/2023	1523
7782-49-2	Selenium	2.1	U	07/12/2023	1523
7440-22-4	Silver	0.097	J	07/12/2023	1523
7440-28-0	Thallium	0.11	J	07/12/2023	1523
7440-62-2	Vanadium	11		07/12/2023	1523
7440-66-6	Zinc	56		07/12/2023	1523

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F35

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-21

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	14		07/12/2023	1526
7440-38-2	Arsenic	260	*	07/12/2023	1526
7440-39-3	Barium	620		07/12/2023	1526
7440-41-7	Beryllium	1.3		07/12/2023	1526
7440-43-9	Cadmium	3.6		07/12/2023	1526
7440-47-3	Chromium	15		07/12/2023	1526
7440-48-4	Cobalt	8.8		07/12/2023	1526
7440-50-8	Copper	48		07/12/2023	1526
7439-92-1	Lead	240		07/12/2023	1526
7439-96-5	Manganese	2400		07/12/2023	1526
7440-02-0	Nickel	13		07/12/2023	1526
7782-49-2	Selenium	1.7	U	07/12/2023	1526
7440-22-4	Silver	4.1		07/12/2023	1526
7440-28-0	Thallium	1.1		07/12/2023	1526
7440-62-2	Vanadium	130		07/12/2023	1526
7440-66-6	Zinc	720		07/12/2023	1526

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F36

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F02

Matrix: SOIL Lab Sample ID: O3446-22

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	14		07/12/2023	1529
7440-38-2	Arsenic	250	*	07/12/2023	1529
7440-39-3	Barium	250		07/12/2023	1529
7440-41-7	Beryllium	1.3		07/12/2023	1529
7440-43-9	Cadmium	3.6		07/12/2023	1529
7440-47-3	Chromium	10		07/12/2023	1529
7440-48-4	Cobalt	7.5		07/12/2023	1529
7440-50-8	Copper	53		07/12/2023	1529
7439-92-1	Lead	200		07/12/2023	1529
7439-96-5	Manganese	2100		07/12/2023	1529
7440-02-0	Nickel	12		07/12/2023	1529
7782-49-2	Selenium	0.29	J	07/12/2023	1529
7440-22-4	Silver	3.8		07/12/2023	1529
7440-28-0	Thallium	0.89		07/12/2023	1529
7440-62-2	Vanadium	110		07/12/2023	1529
7440-66-6	Zinc	610		07/12/2023	1529

NOTE: Hardness (total) is reported in mg/L

Comments:

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

Calibration for 160AREF.d

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Analysis File: P8071223 MS.batch.bin
DA Date-Time: 2023-07-13 00:23:33
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
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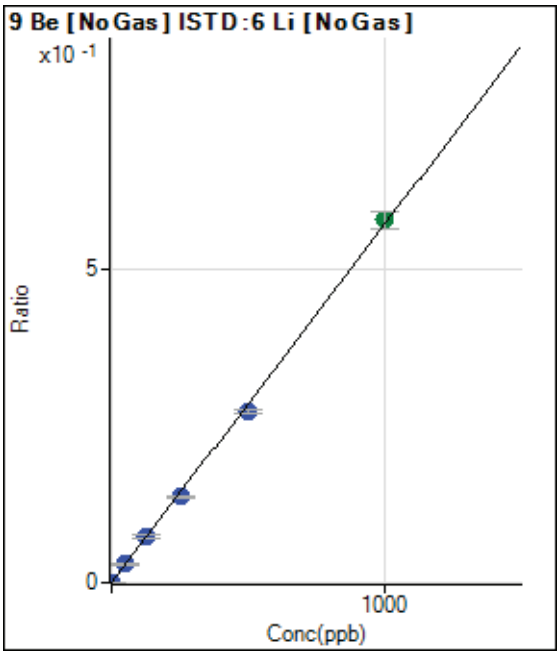
2	005CALS.d	S02	2023-07-12 12:12:16
3	006CALS.d	S03	2023-07-12 12:15:20
4	007CALS.d	S04	2023-07-12 12:18:18
5	008CALS.d	S05	2023-07-12 12:21:19
6	009CALS.d	S06	2023-07-12 12:24:17
7	010CALS.d	S07	2023-07-12 12:27:18
8	011CALS.d	S08	2023-07-12 12:30:16

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	27.50	0.0000	P	16.3
2		1.000	0.988	1510.31	0.0006	P	1.8
3		50.000	51.041	72184.15	0.0292	P	4.5
4		125.000	129.205	170713.20	0.0739	P	8.5
5		250.000	239.879	320875.91	0.1371	P	0.9
6		500.000	476.986	610456.96	0.2726	P	2.5
7		1000.000	1013.460	1229631.46	0.5793	A	4.8
8				262.47	0.0001	P	13.9

y = 5.7157E-004 * x + 1.0563E-005

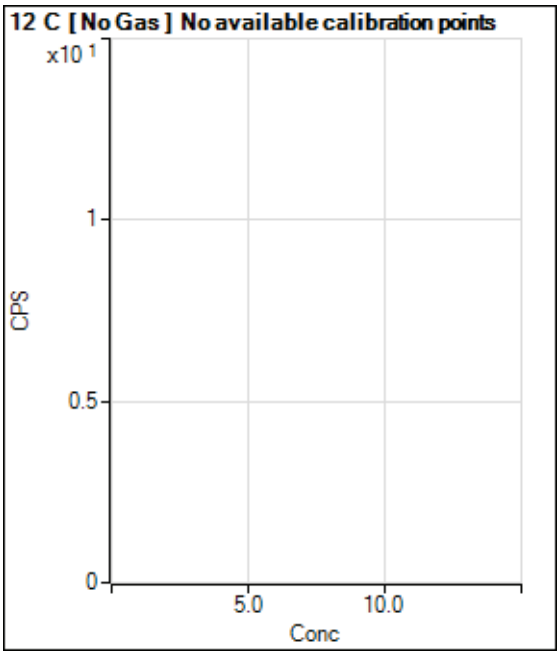
R = 0.9995

DL = 0.009038

BEC = 0.01848

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2342645.15		A	1.2
2				2315175.66		A	1.2
3				2528228.73		A	1.4
4				2481670.78		A	0.2
5				2385645.65		A	1.4
6				2442886.55		A	1.1
7				2508340.38		A	3.1
8				2363346.88		A	3.0

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On:7/14/2023 8:48:56 AM
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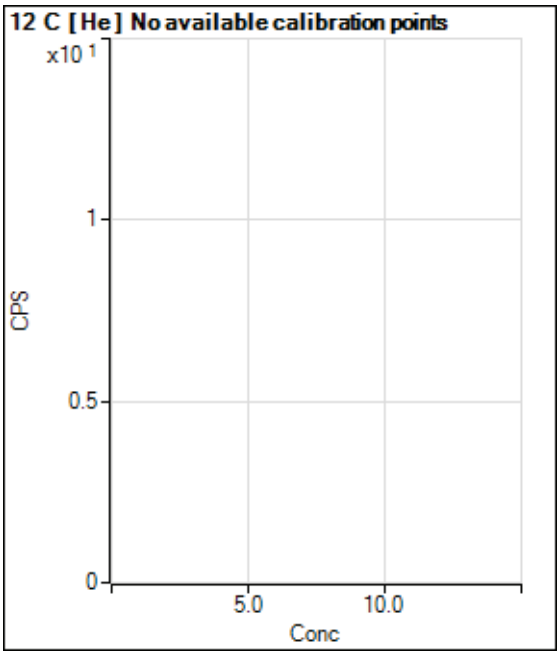

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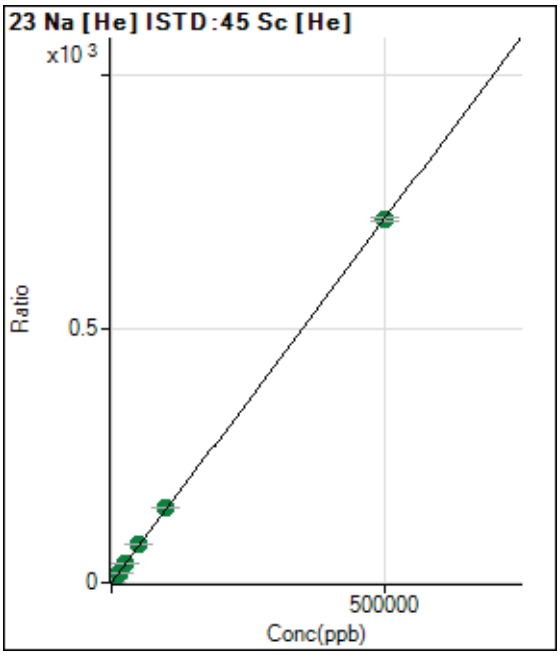
1				29591.46		P	3.4
2				29443.98		P	1.5
3				31178.06		P	0.8
4				30810.79		P	1.6
5				30621.29		P	1.4
6				32428.01		P	0.3
7				34680.43		P	3.9
8				34847.47		P	1.5

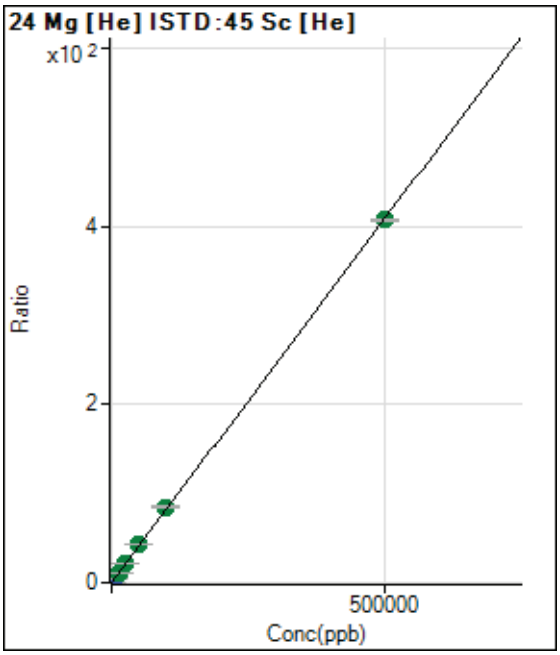


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	20353.51	0.1367	P	2.0
2		500.000	484.701	121660.68	0.8302	P	1.7
3		5000.000	5576.341	1136230.87	8.1148	A	1.6
4		12500.000	13568.820	2629601.60	19.5497	A	0.6
5		25000.000	25734.071	4921470.64	36.9546	A	4.9
6		50000.000	53378.812	9917915.06	76.5060	A	1.4
7		100000.00	103501.81	19873362.42	148.2173	A	1.4
8		500000.00	498892.58	95545543.11	713.9047	A	0.9

y = 0.0014 * x + 0.1367
R = 1.0000
DL = 5.722
BEC = 95.56

Weight: <None>
Min Conc: 0

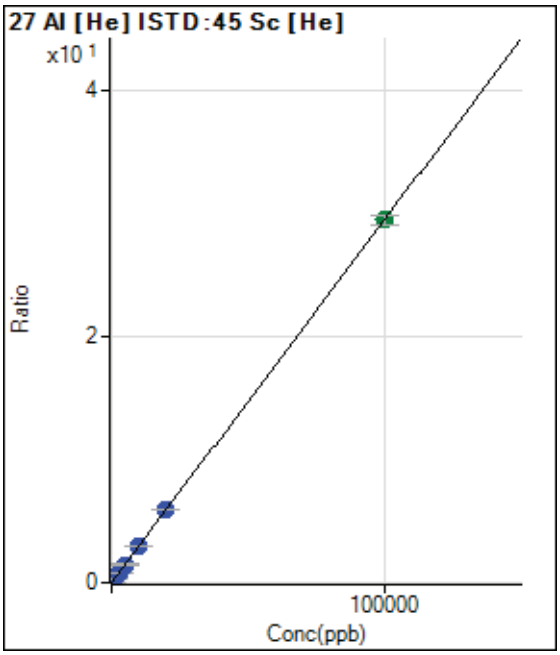
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.00	0.0005	P	68.2
2		500.000	480.583	57528.53	0.3926	P	2.1
3		5000.000	5371.637	613639.56	4.3826	P	1.8
4		12500.000	13767.603	1510656.59	11.2320	A	1.7
5		25000.000	26085.991	2834248.85	21.2812	A	4.7
6		50000.000	52833.024	5587332.41	43.1013	A	1.8
7		100000.00	103692.44	11342111.97	84.5920	A	1.6
8		500000.00	498888.52	54470326.91	406.9897	A	0.3

y = 8.1579E-004 * x + 5.0506E-004
R = 1.0000
DL = 1.266
BEC = 0.6191

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	102.91	0.0007	P	3.2
2		20.000	19.313	934.92	0.0064	P	1.8
3		1000.000	1054.996	43589.33	0.3113	P	0.6
4		2500.000	2578.388	102196.62	0.7598	P	1.2
5		5000.000	4926.850	193268.65	1.4512	P	4.8
6		10000.000	10180.422	388642.18	2.9979	P	0.8
7		20000.000	19935.137	787093.98	5.8699	P	0.6
8		100000.00	99996.078	3939917.36	29.4408	A	2.5

y = 2.9441E-004 * x + 6.9131E-004
R = 1.0000
DL = 0.2261
BEC = 2.348

Weight: <None>
Min Conc: 0

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On:7/14/2023 8:48:56 AM
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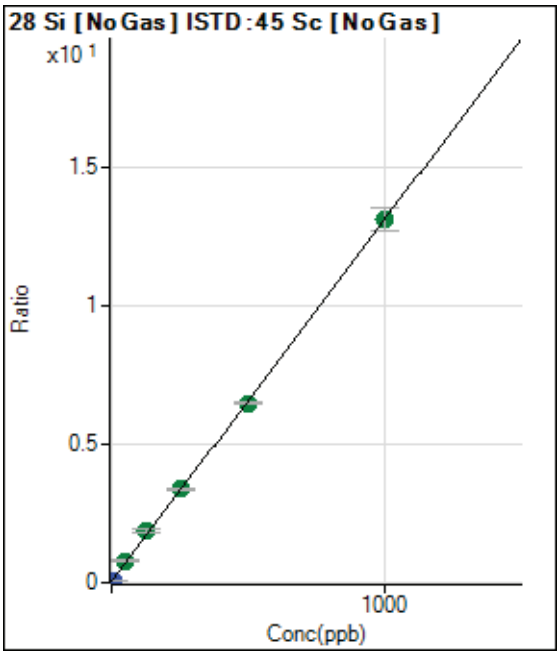
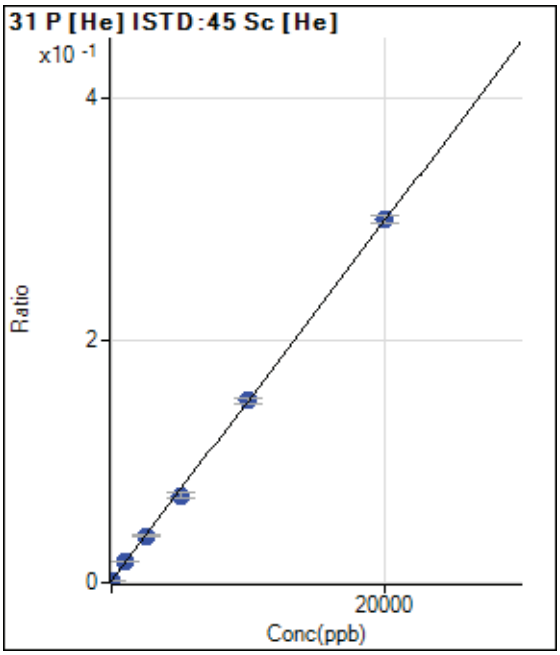


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	176439.60	0.0405	P	0.7
2		10.000	0.661	210875.84	0.0492	P	1.8
3		50.000	56.832	3120866.80	0.7825	A	7.5
4		125.000	138.468	7019926.46	1.8483	A	8.1
5		250.000	256.169	13285599.60	3.3849	A	2.5
6		500.000	493.679	25324063.93	6.4857	A	0.5
7		1000.000	999.686	49579840.35	13.0918	A	6.2
8				759609.40	0.2106	P	16.5

y = 0.0131 * x + 0.0405
R = 0.9998
DL = 0.06132
BEC = 3.104

Weight: <None>
Min Conc: 0

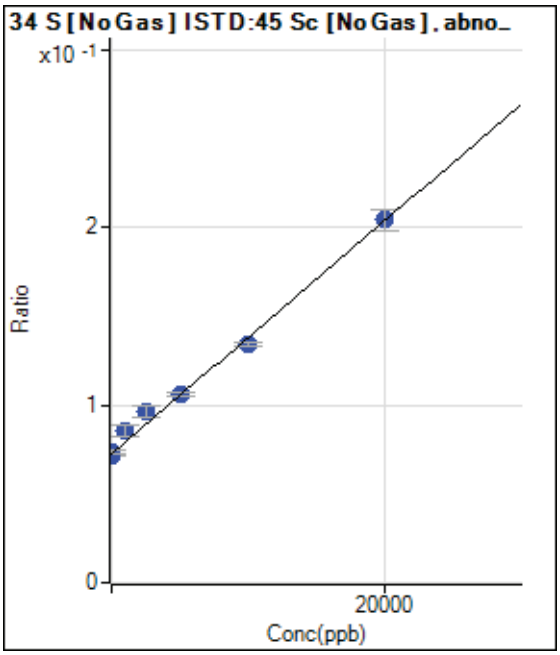


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-8.137	252.78	0.0017	P	29.5
2		0.000	8.137	283.34	0.0019	P	21.0
3		1000.000	1032.698	2400.27	0.0171	P	1.4
4		2500.000	2457.693	5148.26	0.0383	P	4.0
5		5000.000	4726.797	9581.21	0.0720	P	5.2
6		10000.000	10017.075	19502.43	0.1504	P	3.2
7		20000.000	20063.417	40158.93	0.2995	P	2.3
8				216.67	0.0016	P	19.5

y = 1.4838E-005 * x + 0.0018
R = 0.9999
DL = 91.59
BEC = 122.5

Weight: <None>
Min Conc: 0

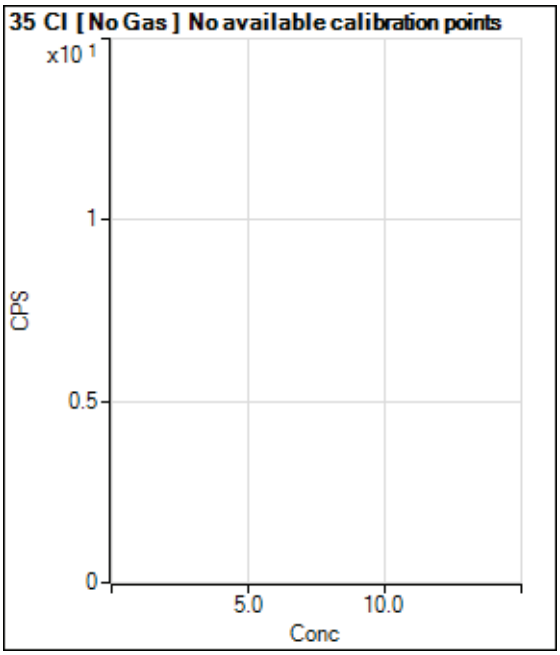
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-142.033	312135.98	0.0717	P	1.0
2		0.000	142.033	315554.01	0.0736	P	2.3
3		1000.000	1965.609	341180.05	0.0855	P	7.1
4		2500.000	3631.464	366698.86	0.0965	P	6.2
5		5000.000	5137.690	417461.67	0.1064	P	2.2
6		10000.000	9423.765	525094.67	0.1345	P	1.2
7		20000.000	20063.982	773992.49	0.2044	P	6.0
8				273045.24	0.0755	P	7.1

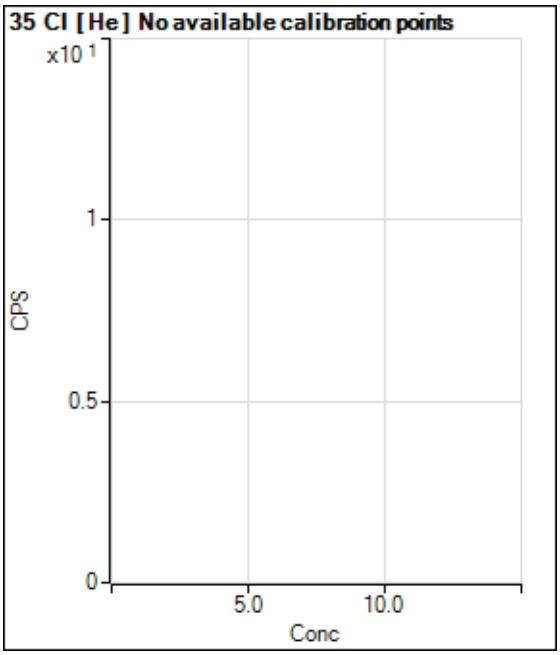
y = 6.5659E-006 * x + 0.0726
R = 0.9969
DL = 563.2
BEC = 1.106E+04

Weight: <None>
Min Conc: 0

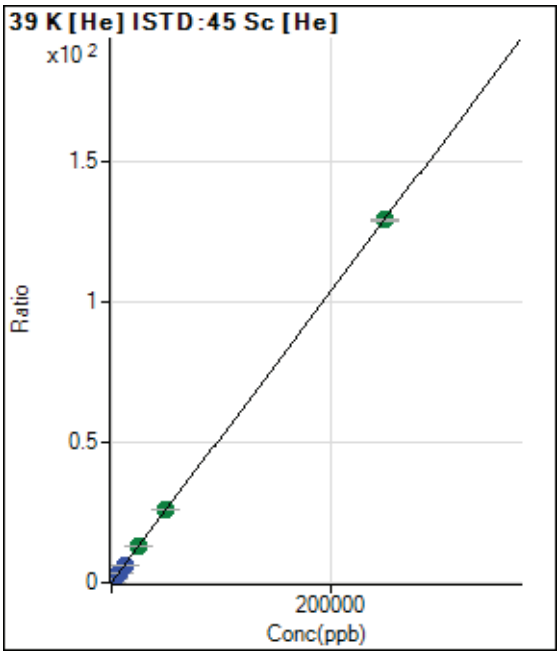


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				92860.89		P	3.3
2				95105.90		P	2.9
3				136610.42		P	1.0
4				131409.75		P	1.1
5				124916.40		P	0.1
6				122636.51		P	1.8
7				122238.72		P	1.7
8				136391.31		P	2.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				705.59		P	9.5
2				716.71		P	9.3
3				1044.52		P	15.4
4				933.39		P	11.8
5				952.83		P	15.8
6				850.05		P	8.5
7				986.18		P	14.0
8				1152.86		P	10.1

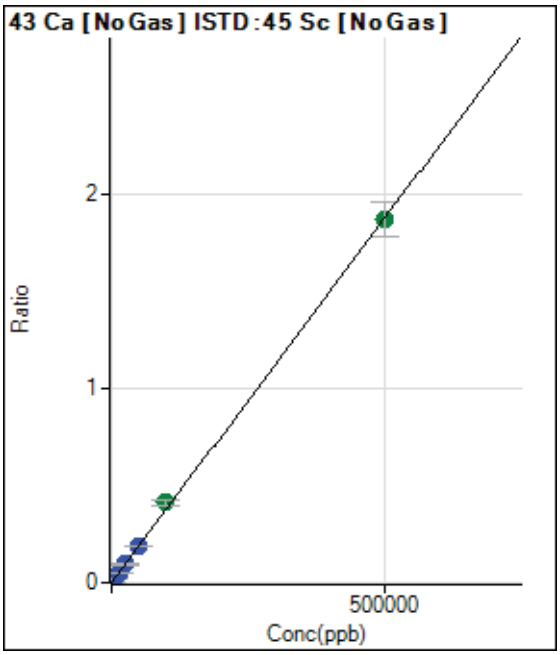


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	10262.29	0.0689	P	1.0
2		500.000	461.927	45157.58	0.3081	P	1.6
3		2500.000	2533.612	193324.52	1.3806	P	0.8
4		6250.000	6186.305	440058.14	3.2717	P	2.0
5		12500.000	11769.699	820863.53	6.1623	P	3.9
6		25000.000	25372.359	1711912.20	13.2046	A	1.8
7		50000.000	50424.732	3510249.12	26.1746	A	0.9
8		250000.00	249915.66	17325119.66	129.4540	A	0.8

y = 5.1771E-004 * x + 0.0689
R = 1.0000
DL = 4.044
BEC = 133.2

Weight: <None>
Min Conc: 0

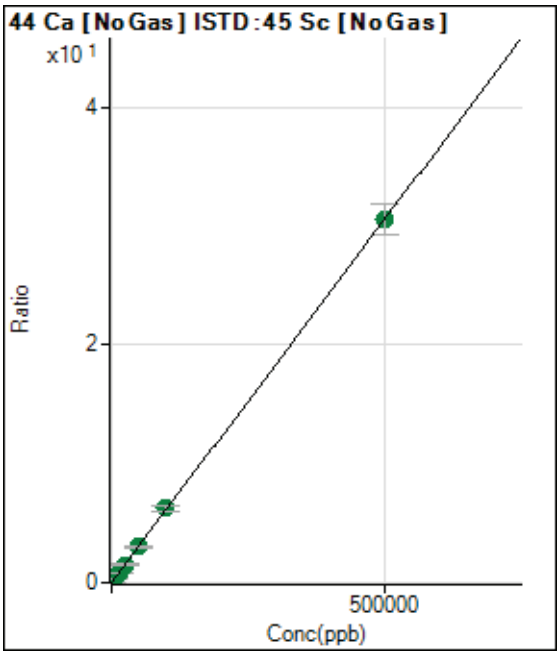
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	253.72	0.0001	P	3.7
2		500.000	432.127	7192.58	0.0017	P	3.4
3		5000.000	5468.159	81944.21	0.0205	P	6.7
4		12500.000	13663.418	194597.12	0.0512	P	8.1
5		25000.000	25147.023	369943.28	0.0942	P	2.0
6		50000.000	49372.763	722149.27	0.1850	P	2.2
7		100000.00	110031.79	1560345.02	0.4122	A	7.6
8		500000.00	498015.31	6736010.51	1.8654	A	9.4

y = 3.7455E-006 * x + 5.8285E-005
R = 0.9998
DL = 1.72
BEC = 15.56

Weight: <None>
Min Conc: 0

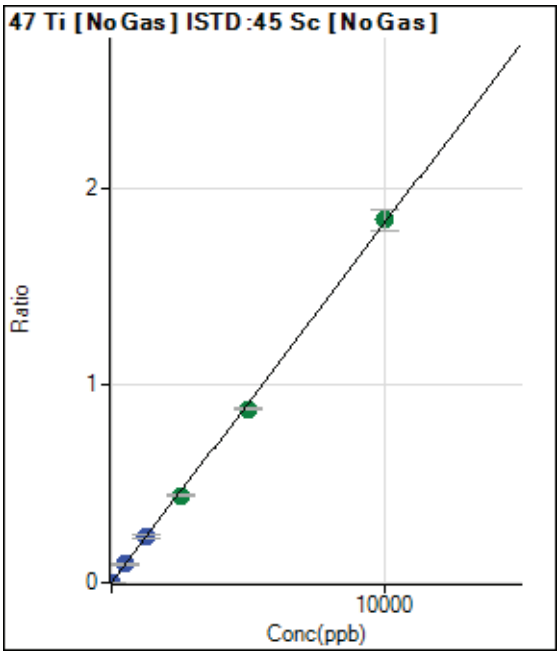


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	28454.41	0.0065	P	1.1
2		500.000	436.588	142327.06	0.0332	P	2.8
3		5000.000	5378.982	1336026.05	0.3348	A	6.2
4		12500.000	13409.951	3133769.30	0.8249	A	7.8
5		25000.000	24830.132	5973834.85	1.5218	A	1.9
6		50000.000	49487.637	11814656.83	3.0266	A	2.6
7		100000.00	102022.80	23600225.42	6.2326	A	6.7
8		500000.00	499628.69	110160001.0	30.4969	A	8.6

y = 6.1026E-005 * x + 0.0065
R = 1.0000
DL = 3.611
BEC = 107.1

Weight: <None>
Min Conc: 0

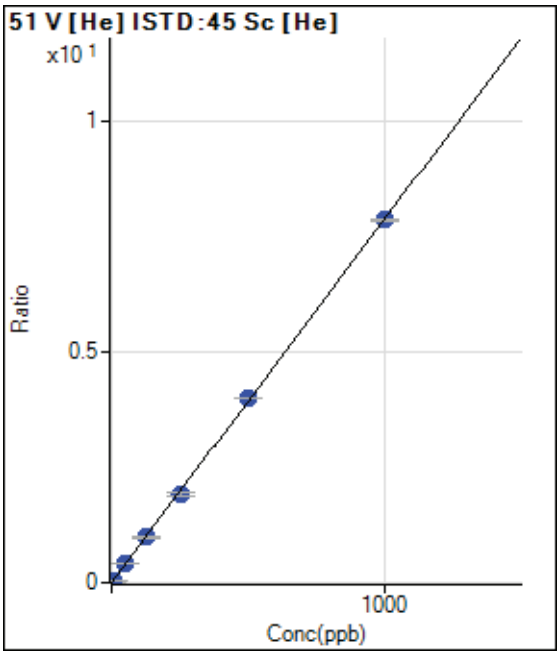
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	175.00	0.0000	P	20.3
2		5.000	4.483	3672.79	0.0009	P	1.4
3		500.000	512.003	371899.76	0.0932	P	6.1
4		1250.000	1291.335	892745.15	0.2350	P	7.6
5		2500.000	2425.947	1732609.85	0.4414	A	2.6
6		5000.000	4834.709	3434062.88	0.8796	A	1.8
7		10000.000	10095.392	6956230.54	1.8368	A	6.1
8				1897.54	0.0005	P	25.2

y = 1.8194E-004 * x + 4.0253E-005
R = 0.9997
DL = 0.1346
BEC = 0.2212

Weight: <None>
Min Conc: 0

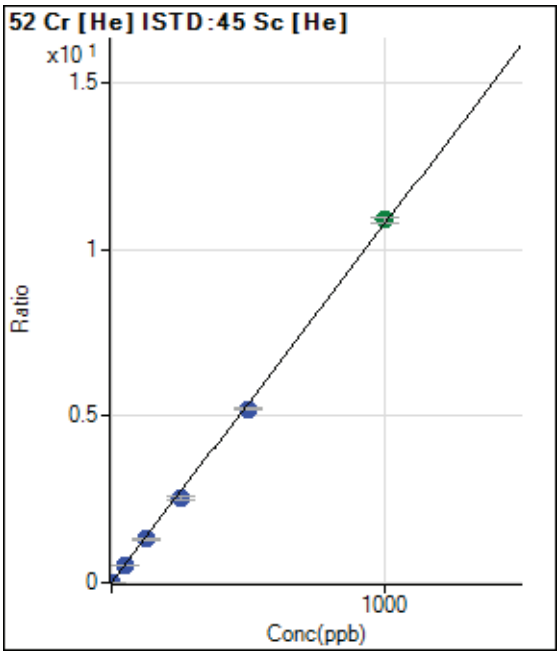


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.78	0.0001	P	29.2
2		5.000	4.719	5466.65	0.0373	P	2.5
3		50.000	51.464	56796.67	0.4056	P	1.7
4		125.000	125.873	133415.73	0.9919	P	2.7
5		250.000	243.276	255284.44	1.9170	P	5.0
6		500.000	506.333	517232.80	3.9898	P	0.0
7		1000.000	998.334	1054808.79	7.8665	P	0.8
8				374.45	0.0028	P	9.0

y = 0.0079 * x + 1.1955E-004
R = 0.9999
DL = 0.01331
BEC = 0.01517

Weight: <None>
Min Conc: 0

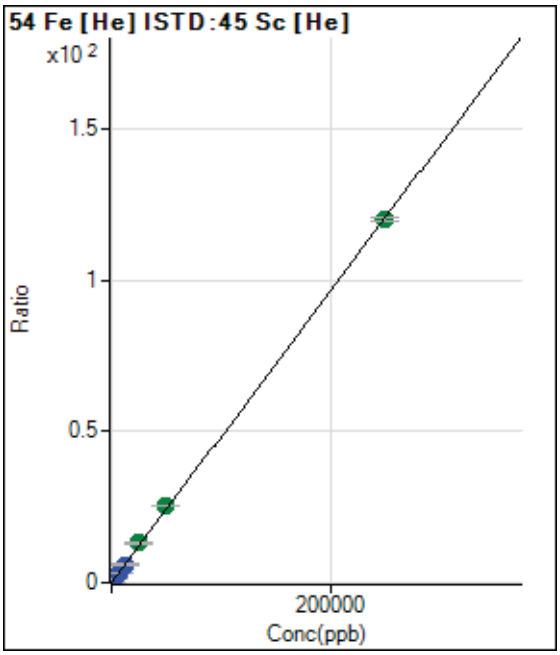
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1118.94	0.0075	P	9.7
2		2.000	1.921	4127.31	0.0282	P	1.2
3		50.000	49.532	75570.68	0.5397	P	2.2
4		125.000	120.875	175715.62	1.3063	P	2.0
5		250.000	233.952	335781.26	2.5214	P	4.8
6		500.000	485.060	676653.93	5.2195	P	0.2
7		1000.000	1012.021	1459095.62	10.8818	A	1.8
8				8626.01	0.0645	P	2.3

y = 0.0107 * x + 0.0075
R = 0.9997
DL = 0.2034
BEC = 0.6998

Weight: <None>
Min Conc: 0

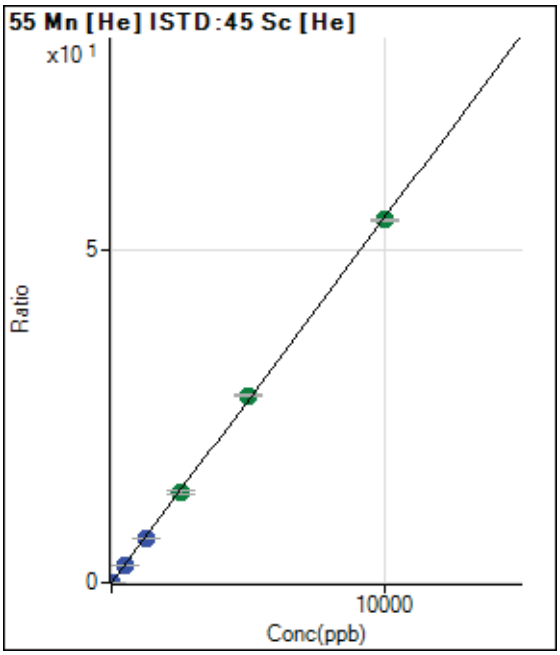


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	357.42	0.0024	P	11.6
2		50.000	49.879	3867.26	0.0264	P	4.2
3		2500.000	2599.697	175449.70	1.2531	P	1.7
4		6250.000	6472.075	419110.56	3.1160	P	1.4
5		12500.000	12386.491	793936.68	5.9613	P	4.6
6		25000.000	27210.446	1697366.40	13.0928	A	1.2
7		50000.000	52569.437	3391448.60	25.2925	A	1.0
8		250000.00	249264.19	16049717.60	119.9183	A	0.9

y = 4.8108E-004 * x + 0.0024
R = 0.9999
DL = 1.735
BEC = 4.99

Weight: <None>
Min Conc: 0

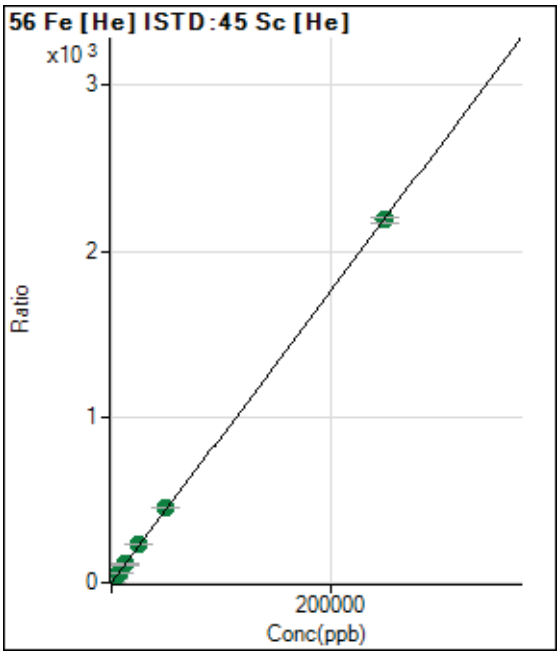
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	43.33	0.0003	P	27.4
2		1.000	0.911	773.36	0.0053	P	6.3
3		500.000	496.242	380129.22	2.7148	P	1.6
4		1250.000	1218.768	896747.82	6.6672	P	1.8
5		2500.000	2479.645	1806531.14	13.5644	A	5.0
6		5000.000	5135.452	3641977.27	28.0922	A	1.4
7		10000.000	9941.455	7292849.34	54.3819	A	0.5
8				5393.30	0.0403	P	1.4

y = 0.0055 * x + 2.9084E-004
R = 0.9999
DL = 0.04366
BEC = 0.05317

Weight: <None>
Min Conc: 0

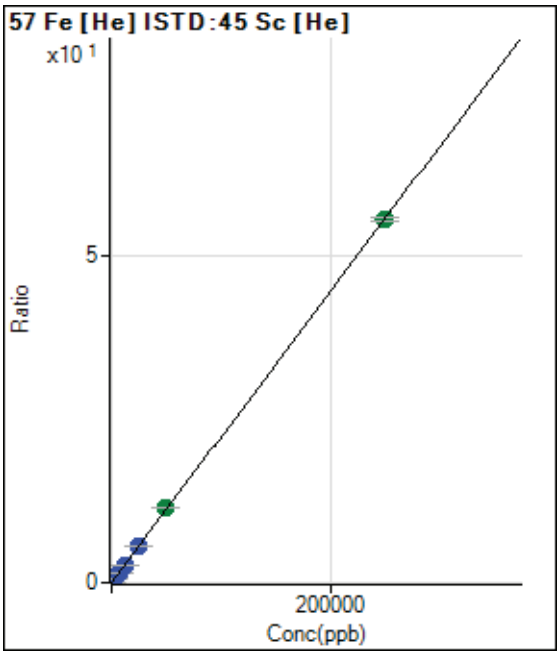


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2748.46	0.0185	P	1.6
2		50.000	48.086	64512.12	0.4402	P	2.0
3		2500.000	2721.331	3344776.52	23.8871	A	0.8
4		6250.000	6653.382	7851581.48	58.3750	A	1.2
5		12500.000	12763.257	14914576.49	111.9644	A	3.9
6		25000.000	26266.094	29867877.98	230.3971	A	1.0
7		50000.000	51507.907	60582020.80	451.7918	A	2.0
8		250000.00	249546.34	292932439.8	2,188.777	A	1.5

y = 0.0088 * x + 0.0185
R = 1.0000
DL = 0.09814
BEC = 2.105

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	120.37	0.0008	P	30.6
2		50.000	46.777	1646.42	0.0112	P	4.7
3		2500.000	2552.326	79748.26	0.5696	P	2.3
4		6250.000	6306.192	189130.31	1.4060	P	1.4
5		12500.000	12080.754	358579.58	2.6928	P	5.2
6		25000.000	25129.953	726052.24	5.6006	P	0.6
7		50000.000	51912.531	1551287.06	11.5686	A	0.8
8		250000.00	249623.53	7444441.37	55.6251	A	1.1

y = 2.2283E-004 * x + 8.0953E-004

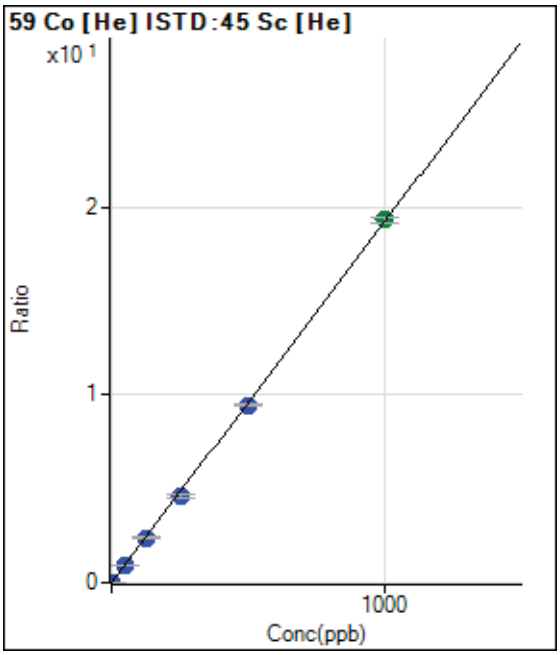
R = 1.0000

DL = 3.331

BEC = 3.633

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	51.11	0.0003	P	20.5
2		1.000	0.957	2744.74	0.0187	P	0.5
3		50.000	50.154	134951.06	0.9638	P	1.6
4		125.000	125.227	323597.15	2.4059	P	1.5
5		250.000	239.192	611853.25	4.5951	P	5.4
6		500.000	493.158	1228150.57	9.4736	P	0.6
7		1000.000	1006.087	2591334.82	19.3266	A	1.9
8				6103.58	0.0456	P	0.6

y = 0.0192 * x + 3.4311E-004

R = 0.9999

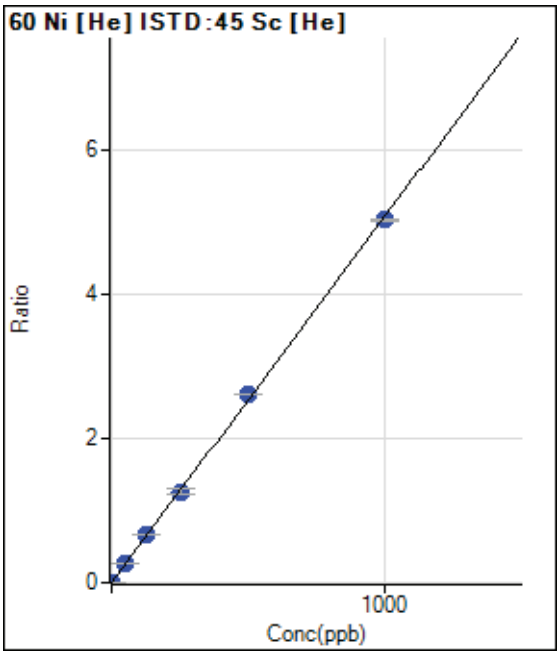
DL = 0.01096

BEC = 0.01786

Weight: <None>

Min Conc: 0

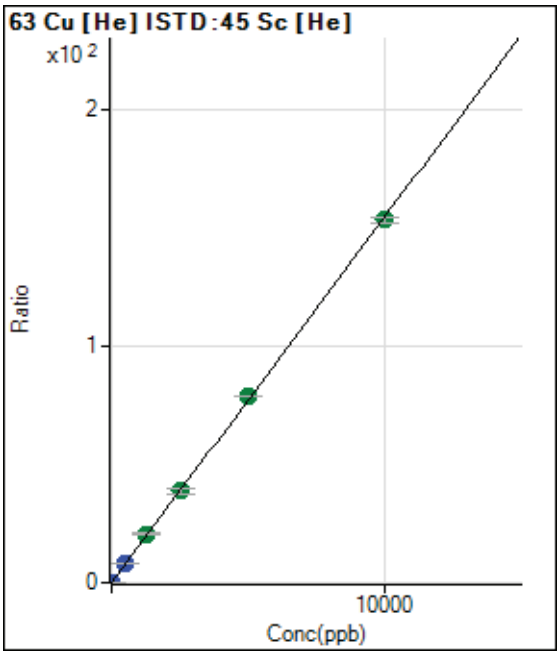
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	46.67	0.0003	P	19.1
2		1.000	1.108	870.04	0.0059	P	4.1
3		50.000	53.701	38209.02	0.2729	P	1.8
4		125.000	131.135	89563.16	0.6659	P	1.9
5		250.000	249.350	168566.02	1.2659	P	5.5
6		500.000	514.254	338421.53	2.6105	P	0.5
7		1000.000	992.083	675257.45	5.0359	P	0.7
8				3362.65	0.0251	P	3.2

y = 0.0051 * x + 3.1358E-004
R = 0.9998
DL = 0.03546
BEC = 0.06178

Weight: <None>
Min Conc: 0

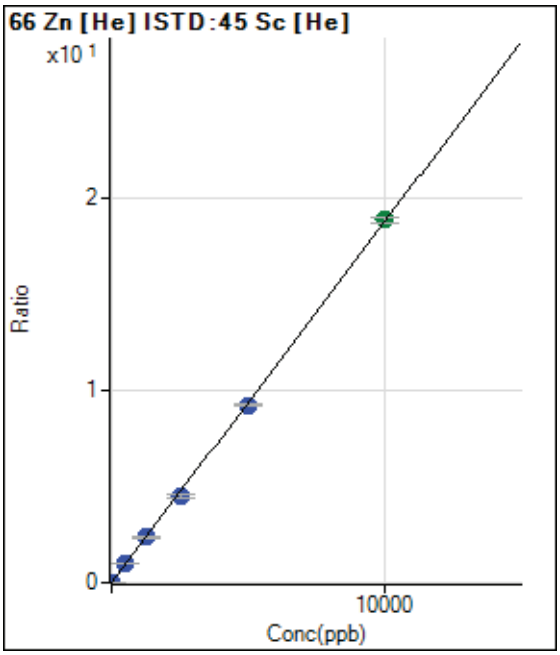


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	486.68	0.0033	P	13.6
2		2.000	1.866	4703.05	0.0321	P	2.1
3		500.000	506.527	1095803.45	7.8262	P	1.5
4		1250.000	1326.137	2755233.88	20.4844	A	3.2
5		2500.000	2503.925	5149760.38	38.6743	A	5.4
6		5000.000	5120.236	10251899.99	79.0811	A	0.3
7		10000.000	9929.057	20561382.75	153.3493	A	1.4
8				7277.51	0.0544	P	0.8

y = 0.0154 * x + 0.0033
R = 0.9999
DL = 0.08633
BEC = 0.2117

Weight: <None>
Min Conc: 0

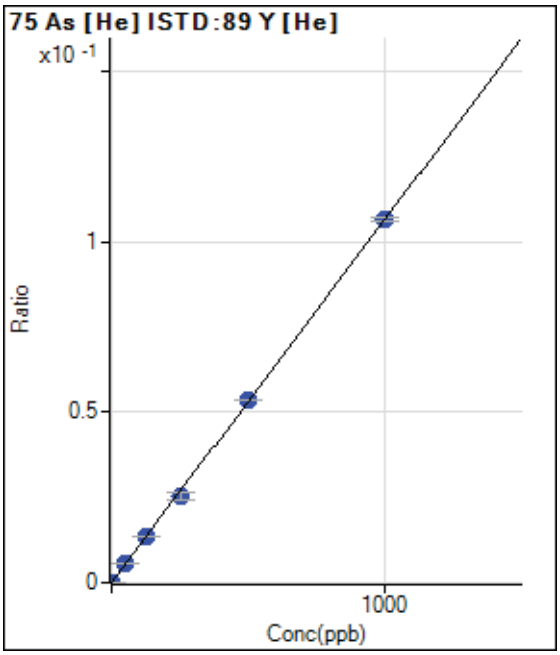
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	130.00	0.0009	P	3.1
2		2.000	2.231	741.13	0.0051	P	6.8
3		500.000	514.977	135465.48	0.9675	P	1.8
4		1250.000	1255.301	317041.67	2.3571	P	1.4
5		2500.000	2396.977	599312.34	4.5001	P	4.8
6		5000.000	4925.858	1198747.77	9.2469	P	0.4
7		10000.000	10061.415	2532381.87	18.8865	A	1.4
8				2828.08	0.0211	P	1.5

y = 0.0019 * x + 8.7341E-004
R = 0.9999
DL = 0.04371
BEC = 0.4653

Weight: <None>
Min Conc: 0

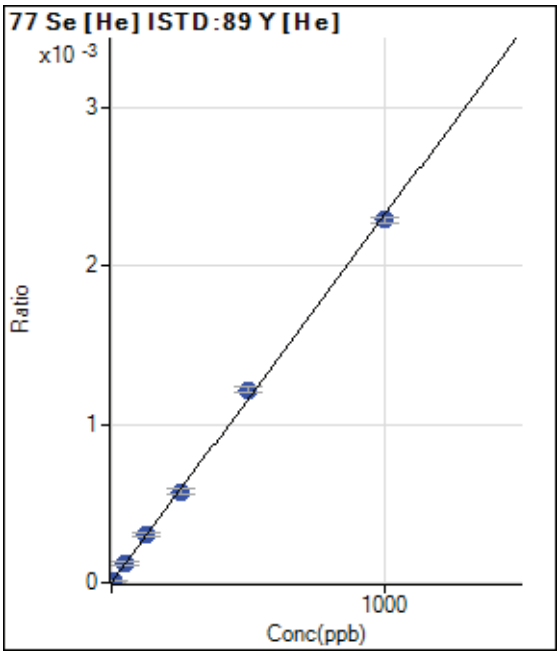


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.67	0.0000	P	91.9
2		1.000	1.052	145.35	0.0001	P	11.7
3		50.000	52.675	6876.38	0.0056	P	2.0
4		125.000	127.998	16015.34	0.0136	P	1.6
5		250.000	240.627	30547.58	0.0256	P	9.3
6		500.000	502.940	61851.86	0.0535	P	0.6
7		1000.000	1000.365	126555.21	0.1064	P	1.1
8				58.68	0.0000	P	22.7

y = 1.0633E-004 * x + 1.3078E-006
R = 0.9999
DL = 0.0339
BEC = 0.0123

Weight: <None>
Min Conc: 0

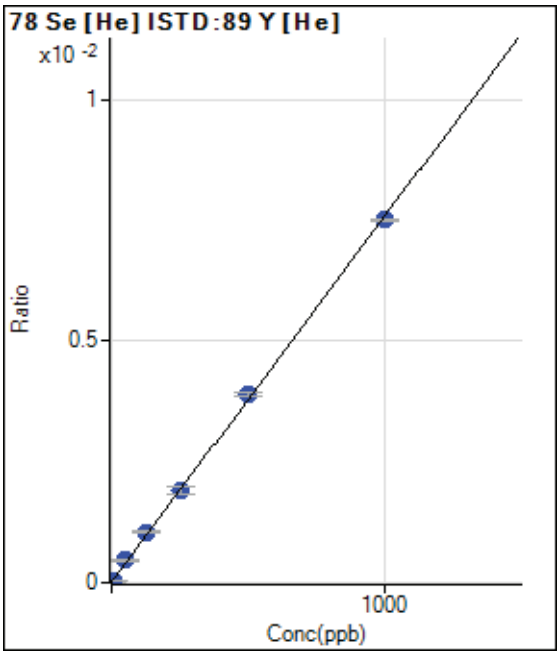
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.11	0.0000	P	173.
2		5.000	4.478	14.44	0.0000	P	35.8
3		50.000	52.489	151.12	0.0001	P	21.8
4		125.000	130.787	357.79	0.0003	P	10.8
5		250.000	247.575	687.80	0.0006	P	5.8
6		500.000	525.330	1410.09	0.0012	P	3.2
7		1000.000	987.096	2724.74	0.0023	P	1.3
8				13.33	0.0000	P	24.6

y = 2.3191E-006 * x + 8.7432E-007
R = 0.9995
DL = 1.959
BEC = 0.377

Weight: <None>
Min Conc: 0

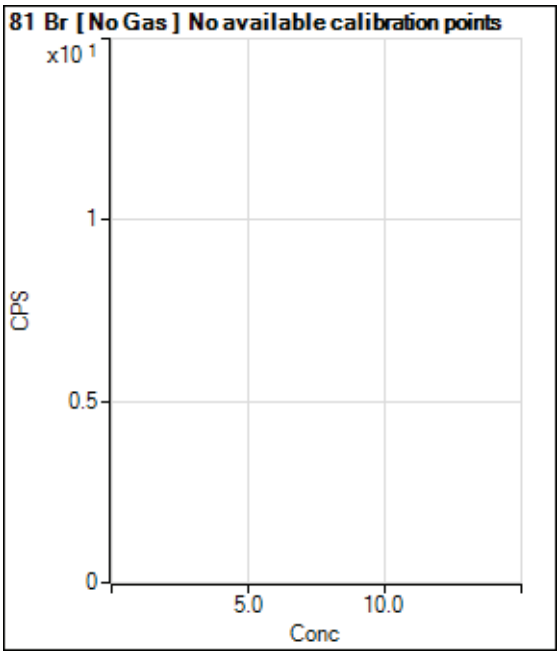


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14.33	0.0000	P	17.4
2		5.000	4.761	60.68	0.0000	P	18.3
3		50.000	59.240	563.74	0.0005	P	7.2
4		125.000	137.081	1234.18	0.0010	P	2.9
5		250.000	250.451	2277.42	0.0019	P	8.9
6		500.000	513.939	4512.85	0.0039	P	1.8
7		1000.000	990.947	8939.08	0.0075	P	0.6
8				69.68	0.0001	P	27.9

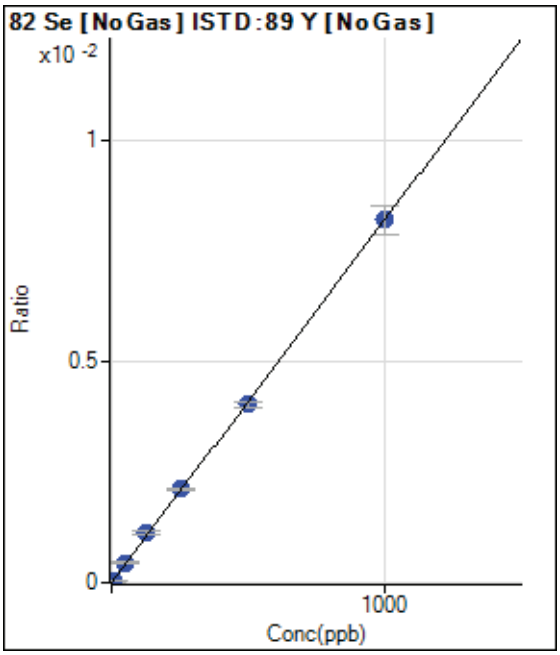
y = 7.5705E-006 * x + 1.1230E-005
R = 0.9998
DL = 0.7727
BEC = 1.483

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				4448.05		P	2.8
2				4359.13		P	4.5
3				4164.61		P	1.7
4				4006.24		P	4.2
5				3642.23		P	1.2
6				3442.18		P	6.4
7				3036.52		P	4.3
8				6890.81		P	16.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.91	0.0000	P	133.
2		5.000	4.764	480.38	0.0000	P	9.6
3		50.000	55.470	5059.55	0.0005	P	8.4
4		125.000	138.267	12061.39	0.0011	P	7.0
5		250.000	258.057	23293.85	0.0021	P	2.7
6		500.000	491.094	44487.68	0.0040	P	2.5
7		1000.000	1000.508	88921.33	0.0082	P	7.6
8				461.63	0.0000	P	11.5

y = 8.2046E-006 * x + 1.4905E-006

R = 0.9998

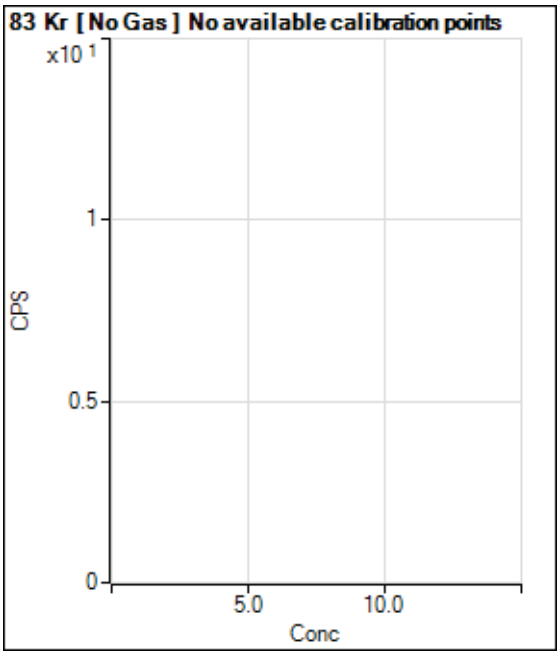
DL = 0.73

BEC = 0.1817

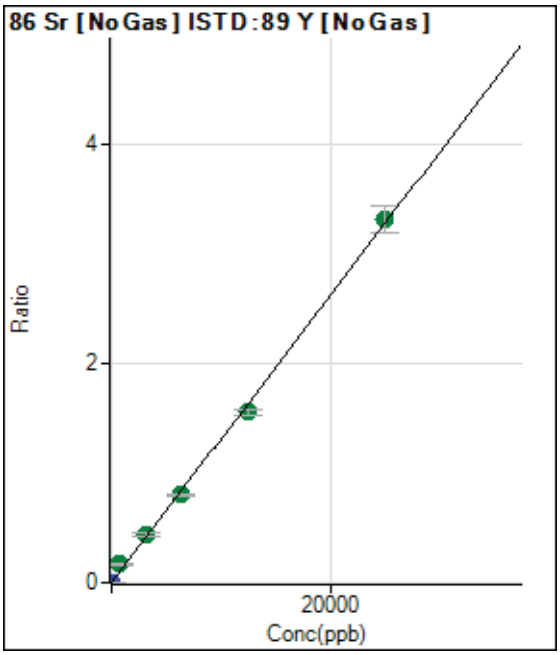
Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				230.39		P	11.8
2				244.97		P	5.4
3				244.97		P	1.4
4				238.30		P	1.1
5				247.47		P	8.9
6				231.22		P	2.5
7				232.47		P	4.6
8				236.22		P	7.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	450.02	0.0000	P	7.5
2		1.000	0.864	1775.16	0.0001	P	1.3
3		625.000	1300.834	1883127.97	0.1699	A	7.6
4		3125.000	3329.086	4613793.07	0.4349	A	8.8
5		6250.000	6125.626	8796843.42	0.8001	A	2.5
6		12500.000	11885.792	17132254.72	1.5525	A	3.3
7		25000.000	25295.791	35787979.96	3.3039	A	7.3
8				10237.76	0.0010	P	10.3

y = 1.3061E-004 * x + 3.7081E-005

R = 0.9991

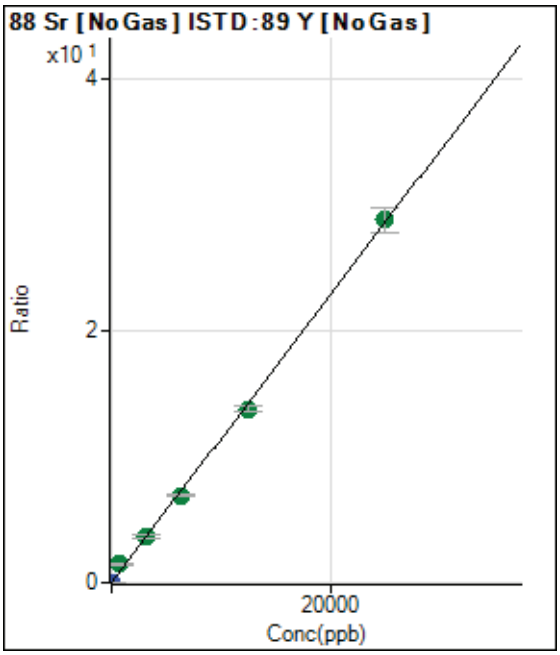
DL = 0.06414

BEC = 0.2839

Weight: <None>

Min Conc: 0

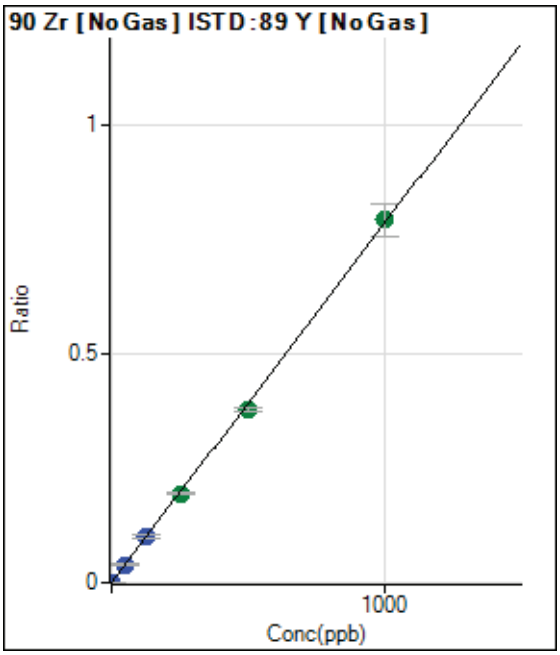
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	788.93	0.0001	P	21.7
2		1.000	0.904	12992.48	0.0011	P	3.6
3		625.000	1277.881	16171663.03	1.4592	A	7.5
4		3125.000	3234.830	39199335.95	3.6936	A	8.6
5		6250.000	6072.428	76217399.62	6.9336	A	3.6
6		12500.000	12049.721	151835599.2	13.7585	A	3.2
7		25000.000	25239.482	312222651.4	28.8187	A	6.9
8				75894.10	0.0072	P	16.8

y = 0.0011 * x + 6.4918E-005
R = 0.9993
DL = 0.03699
BEC = 0.05686

Weight: <None>
Min Conc: 0

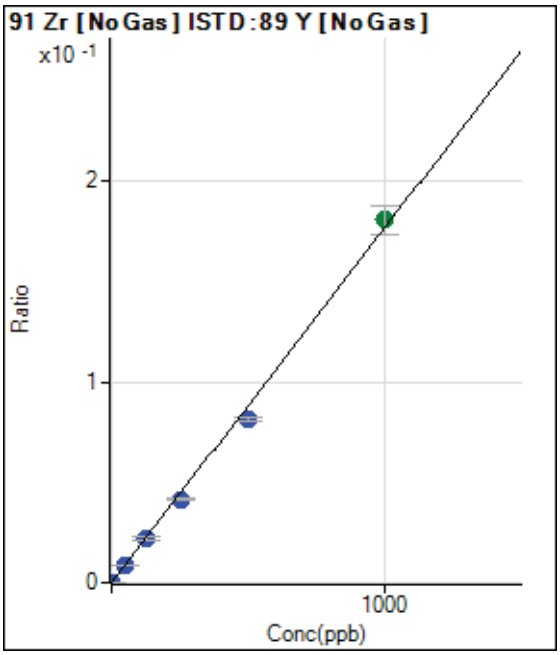


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	452.80	0.0000	P	3.3
2		1.000	0.802	7919.14	0.0007	P	9.3
3		50.000	49.731	434056.38	0.0392	P	6.9
4		125.000	126.812	1059009.83	0.0998	P	8.4
5		250.000	247.429	2140380.41	0.1947	A	2.4
6		500.000	481.359	4180522.06	0.3787	A	2.9
7		1000.000	1009.750	8598622.33	0.7943	A	8.8
8				5023.34	0.0005	P	8.1

y = 7.8663E-004 * x + 3.7318E-005
R = 0.9997
DL = 0.004753
BEC = 0.04744

Weight: <None>
Min Conc: 0

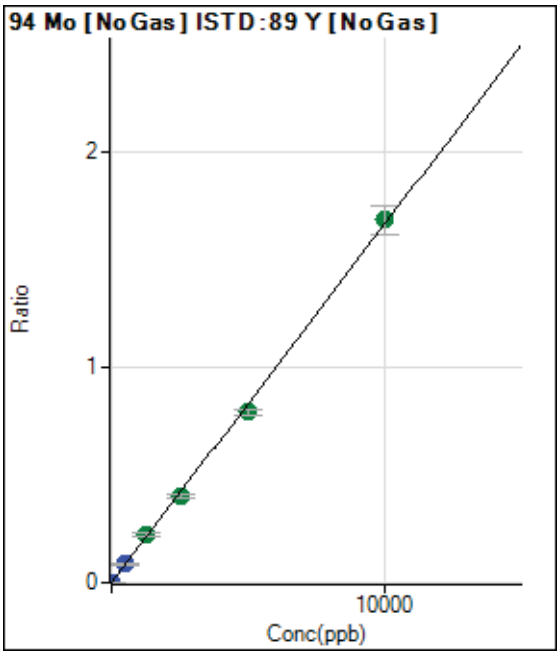
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.22	0.0000	P	57.1
2		1.000	0.816	1802.94	0.0002	P	7.4
3		50.000	49.482	96953.49	0.0088	P	8.0
4		125.000	125.772	236011.86	0.0222	P	7.6
5		250.000	234.074	454871.33	0.0414	P	1.9
6		500.000	460.982	899111.55	0.0815	P	2.5
7		1000.000	1023.420	1958471.09	0.1808	A	7.8
8				1166.76	0.0001	P	3.3

y = 1.7670E-004 * x + 8.0205E-006
R = 0.9987
DL = 0.07771
BEC = 0.04539

Weight: <None>
Min Conc: 0

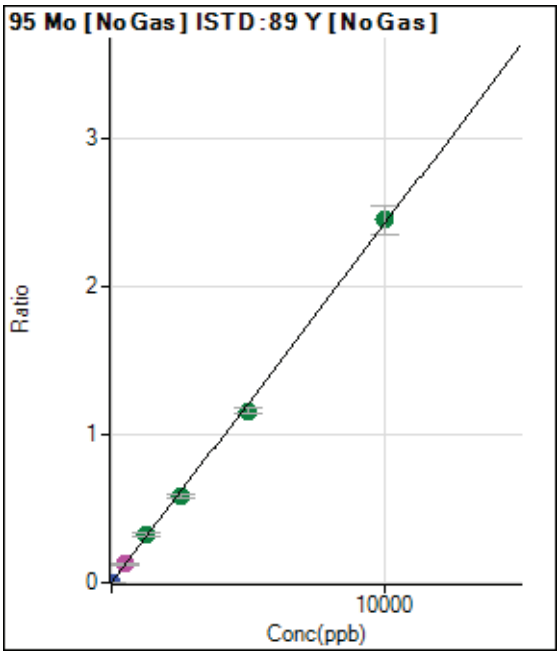


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.23	0.0000	P	39.3
2		5.000	5.135	10198.48	0.0009	P	3.1
3		500.000	514.489	947503.25	0.0855	P	7.6
4		1250.000	1338.814	2361455.72	0.2225	A	8.0
5		2500.000	2421.745	4424382.08	0.4025	A	3.2
6		5000.000	4765.724	8739875.11	0.7920	A	3.5
7		10000.000	10124.876	18219974.71	1.6826	A	8.0
8				7583.45	0.0007	P	12.0

y = 1.6618E-004 * x + 7.9901E-006
R = 0.9995
DL = 0.05667
BEC = 0.04808

Weight: <None>
Min Conc: 0

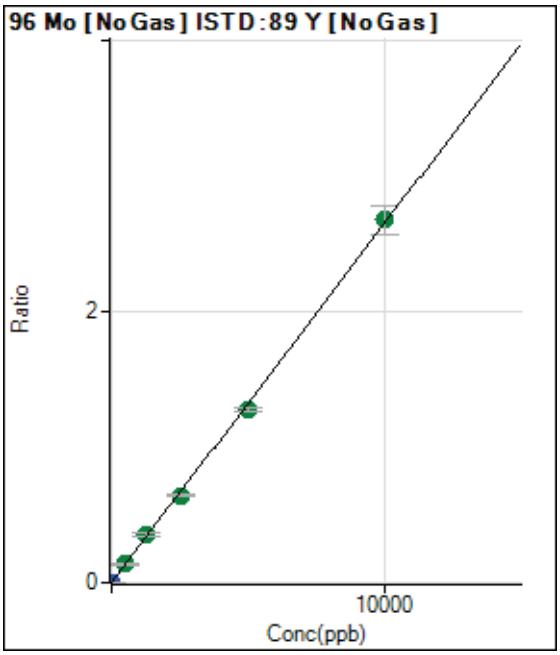
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	64.5
2		5.000	4.346	12492.05	0.0011	P	2.0
3		500.000	521.958	1402829.65	0.1265	M	5.9
4		1250.000	1331.530	3424512.99	0.3227	A	8.2
5		2500.000	2417.113	6439236.69	0.5857	A	3.1
6		5000.000	4793.704	12820952.98	1.1617	A	3.0
7		10000.000	10112.581	26540351.46	2.4506	A	7.8
8				9697.12	0.0009	P	7.1

y = 2.4233E-004 * x + 1.5982E-006
R = 0.9996
DL = 0.01275
BEC = 0.006595

Weight: <None>
Min Conc: 0

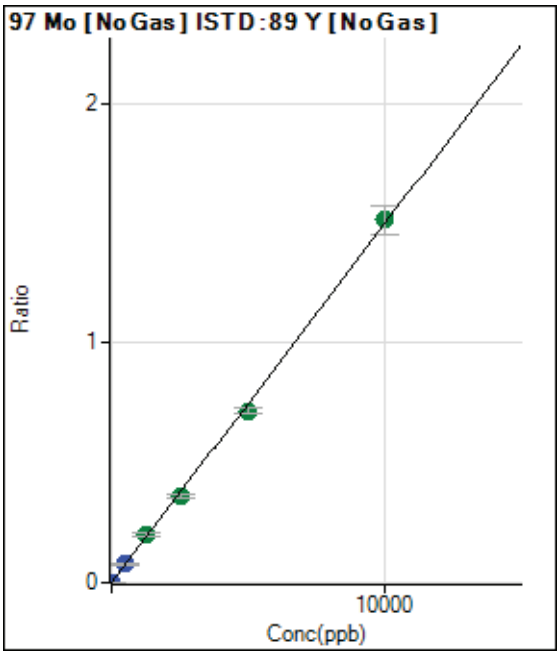


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	52.6
2		5.000	4.424	13951.80	0.0012	P	1.5
3		500.000	526.939	1546705.06	0.1396	A	7.5
4		1250.000	1331.101	3741091.10	0.3526	A	8.6
5		2500.000	2424.997	7061547.99	0.6423	A	2.6
6		5000.000	4813.106	14069251.88	1.2748	A	2.9
7		10000.000	10100.714	28974517.66	2.6753	A	7.7
8				11468.58	0.0011	P	8.8

y = 2.6486E-004 * x + 6.4040E-006
R = 0.9996
DL = 0.03812
BEC = 0.02418

Weight: <None>
Min Conc: 0

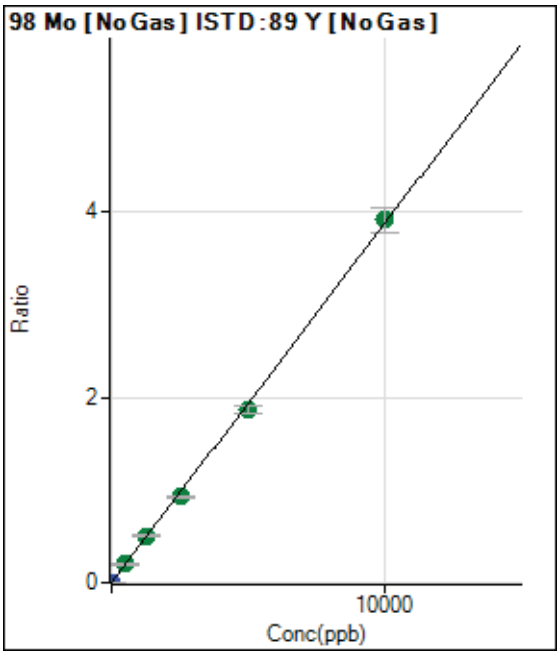
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	13.89	0.0000	P	173.
2		5.000	4.289	7618.97	0.0006	P	2.1
3		500.000	515.462	855123.19	0.0772	P	8.2
4		1250.000	1323.875	2103208.38	0.1983	A	9.0
5		2500.000	2413.645	3973036.85	0.3614	A	3.9
6		5000.000	4788.550	7914238.37	0.7171	A	2.9
7		10000.000	10117.307	16408439.60	1.5151	A	7.7
8				6179.89	0.0006	P	7.9

y = 1.4975E-004 * x + 1.1623E-006
R = 0.9996
DL = 0.04033
BEC = 0.007762

Weight: <None>
Min Conc: 0

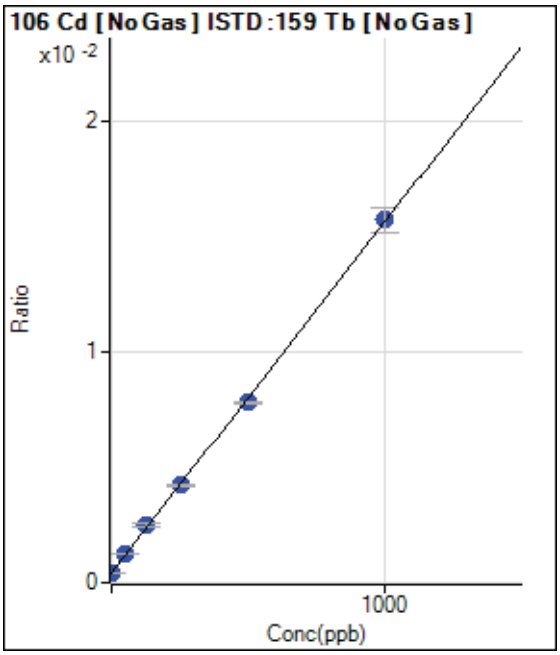


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	41.67	0.0000	P	52.7
2		5.000	4.403	20254.15	0.0017	P	3.8
3		500.000	524.856	2254053.00	0.2035	A	8.4
4		1250.000	1309.056	5387929.72	0.5075	A	7.6
5		2500.000	2399.565	10227669.85	0.9304	A	3.1
6		5000.000	4815.017	20600312.96	1.8669	A	3.8
7		10000.000	10108.976	42464659.98	3.9194	A	7.0
8				15731.31	0.0015	P	16.9

y = 3.8772E-004 * x + 3.4356E-006
R = 0.9996
DL = 0.01401
BEC = 0.008861

Weight: <None>
Min Conc: 0

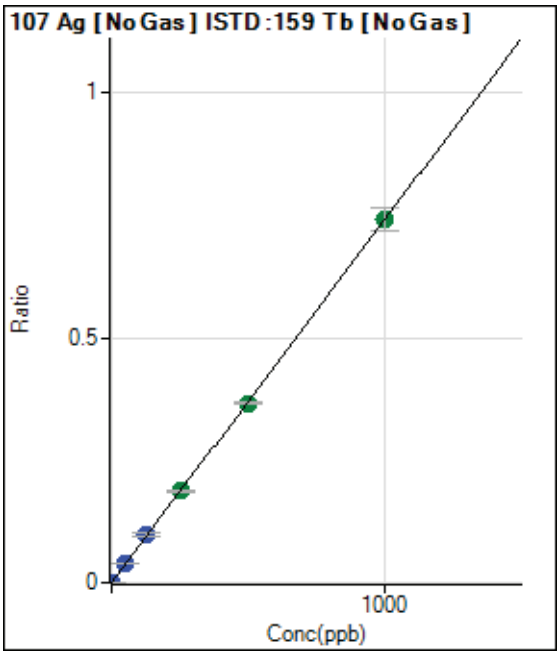
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	4056.27	0.0004	P	5.6
2		1.000	-0.389	4006.24	0.0004	P	8.5
3		50.000	51.945	10787.84	0.0012	P	2.3
4		125.000	137.207	21086.11	0.0025	P	7.8
5		250.000	249.627	36774.93	0.0042	P	1.9
6		500.000	484.423	68914.30	0.0078	P	1.8
7		1000.000	1006.260	136160.71	0.0157	P	6.9
8				3356.06	0.0004	P	4.0

y = 1.5172E-005 * x + 4.3926E-004
R = 0.9997
DL = 4.821
BEC = 28.95

Weight: <None>
Min Conc: 0

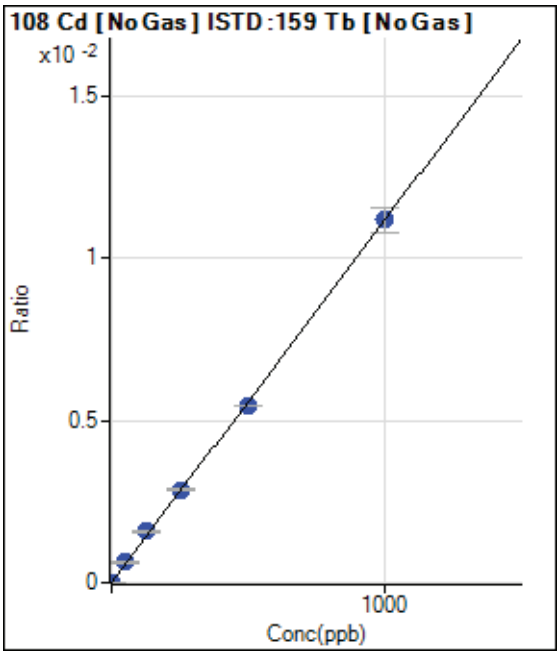


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	41.0
2		1.000	0.956	6621.19	0.0007	P	3.0
3		50.000	52.715	342870.51	0.0391	P	5.0
4		125.000	132.985	824751.23	0.0985	P	6.2
5		250.000	253.191	1632364.13	0.1876	A	2.2
6		500.000	495.488	3248248.51	0.3671	A	1.1
7		1000.000	1000.325	6426623.15	0.7412	A	6.4
8				1161.19	0.0001	P	17.4

y = 7.4091E-004 * x + 8.3755E-006
R = 0.9999
DL = 0.01392
BEC = 0.0113

Weight: <None>
Min Conc: 0

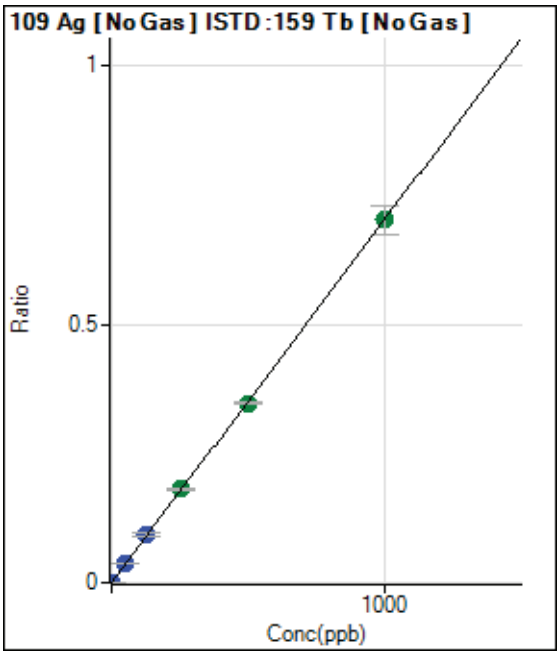
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	18.06	0.0000	P	13.9
2		1.000	0.981	119.45	0.0000	P	15.0
3		50.000	55.750	5478.93	0.0006	P	7.7
4		125.000	140.731	13178.68	0.0016	P	5.6
5		250.000	256.009	24900.42	0.0029	P	2.8
6		500.000	489.309	48387.62	0.0055	P	0.2
7		1000.000	1001.589	97036.29	0.0112	P	6.6
8				95.84	0.0000	P	7.8

y = 1.1172E-005 * x + 1.9565E-006
R = 0.9998
DL = 0.07316
BEC = 0.1751

Weight: <None>
Min Conc: 0

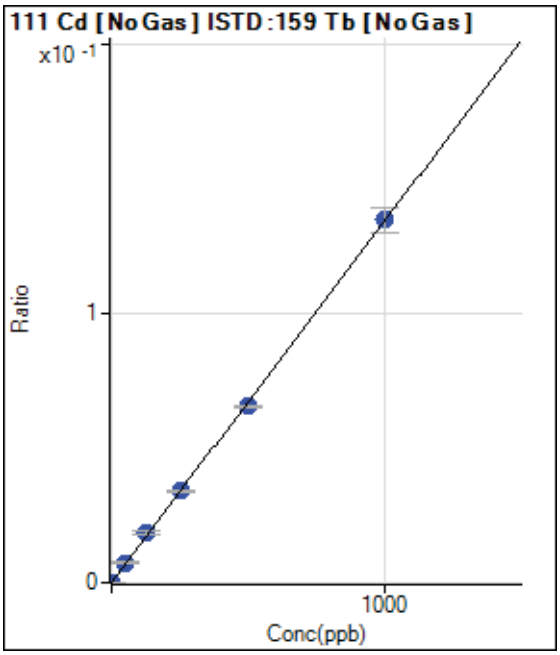


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	38.89	0.0000	P	33.3
2		1.000	0.934	6104.30	0.0007	P	2.9
3		50.000	52.232	321974.90	0.0367	P	6.6
4		125.000	133.677	785630.96	0.0939	P	8.1
5		250.000	258.033	1577344.48	0.1813	A	2.7
6		500.000	494.477	3074513.85	0.3475	A	0.8
7		1000.000	999.557	6086561.16	0.7024	A	8.1
8				1075.07	0.0001	P	10.0

y = 7.0267E-004 * x + 4.2142E-006
R = 0.9999
DL = 0.005998
BEC = 0.005997

Weight: <None>
Min Conc: 0

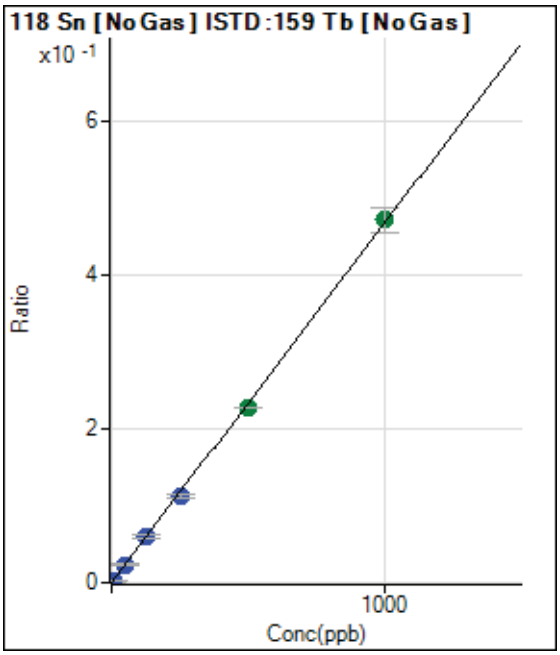
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	399.93	0.0000	P	4.8
2		1.000	0.910	1529.59	0.0002	P	5.0
3		50.000	54.070	64106.60	0.0073	P	5.5
4		125.000	138.137	155500.79	0.0186	P	8.5
5		250.000	253.951	297086.91	0.0341	P	2.6
6		500.000	487.127	579234.42	0.0655	P	1.1
7		1000.000	1003.603	1168861.51	0.1348	P	7.0
8				925.49	0.0001	P	5.3

y = 1.3430E-004 * x + 4.3302E-005
R = 0.9998
DL = 0.04613
BEC = 0.3224

Weight: <None>
Min Conc: 0

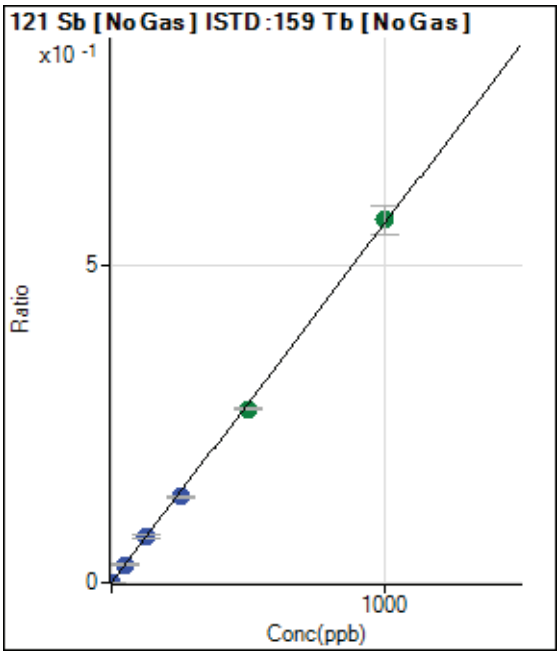


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1150.08	0.0001	P	5.9
2		5.000	4.367	19998.44	0.0022	P	1.4
3		50.000	50.468	207905.42	0.0237	P	6.2
4		125.000	128.767	503778.28	0.0603	P	9.7
5		250.000	241.551	982390.00	0.1130	P	4.1
6		500.000	485.149	2006356.34	0.2267	A	0.2
7		1000.000	1009.047	4087329.43	0.4715	A	6.9
8				3325.72	0.0004	P	1.0

y = 4.6711E-004 * x + 1.2451E-004
R = 0.9998
DL = 0.0468
BEC = 0.2666

Weight: <None>
Min Conc: 0

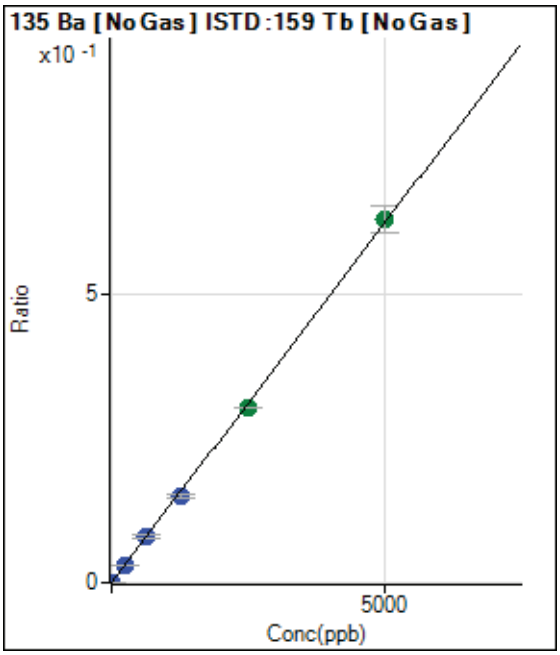
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	8.33	0.0000	P	98.7
2		2.000	1.772	9289.49	0.0010	P	4.4
3		50.000	49.584	246587.72	0.0281	P	6.8
4		125.000	127.626	605171.75	0.0724	P	8.2
5		250.000	239.823	1182853.35	0.1360	P	2.9
6		500.000	483.180	2423906.59	0.2740	A	1.1
7		1000.000	1010.647	4965539.91	0.5730	A	8.1
8				3156.07	0.0004	P	20.9

y = 5.6697E-004 * x + 8.9398E-007
R = 0.9997
DL = 0.004667
BEC = 0.001577

Weight: <None>
Min Conc: 0

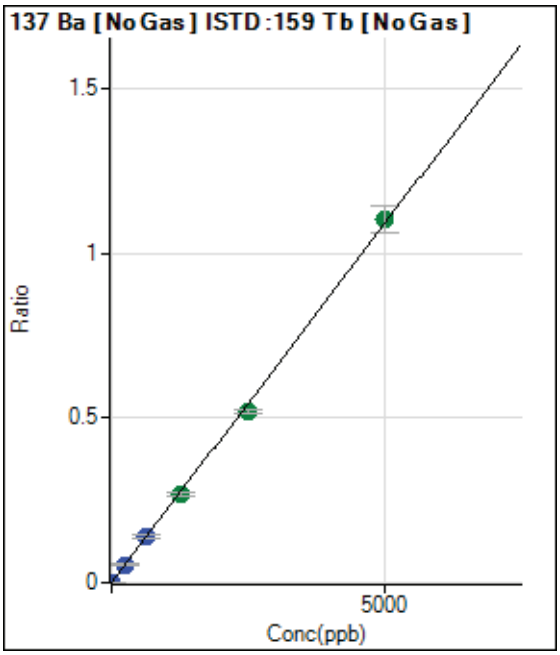


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.45	0.0000	P	8.7
2		10.000	8.678	10001.29	0.0011	P	3.8
3		250.000	246.750	269003.97	0.0306	P	4.8
4		625.000	638.835	663448.28	0.0793	P	8.4
5		1250.000	1205.523	1302285.81	0.1497	P	3.2
6		2500.000	2423.922	2663568.10	0.3010	A	0.1
7		5000.000	5047.594	5433437.58	0.6268	A	7.4
8				3792.41	0.0005	P	4.0

y = 1.2418E-004 * x + 4.8070E-006
R = 0.9998
DL = 0.01013
BEC = 0.03871

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	58.33	0.0000	P	15.6
2		10.000	9.221	18641.14	0.0020	P	6.2
3		250.000	249.862	478092.41	0.0545	P	5.4
4		625.000	645.538	1177185.99	0.1407	P	7.9
5		1250.000	1235.843	2343625.90	0.2694	A	3.5
6		2500.000	2391.120	4612181.27	0.5213	A	2.0
7		5000.000	5055.421	9553340.06	1.1022	A	7.5
8				6891.35	0.0008	P	6.7

y = 2.1802E-004 * x + 6.3265E-006

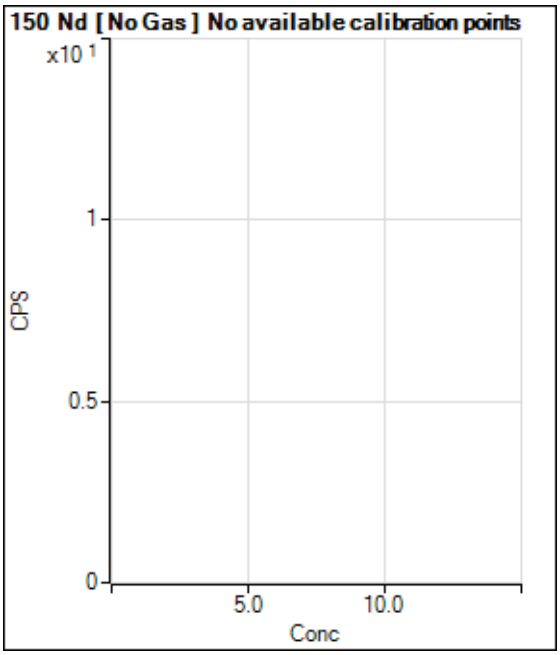
R = 0.9996

DL = 0.01361

BEC = 0.02902

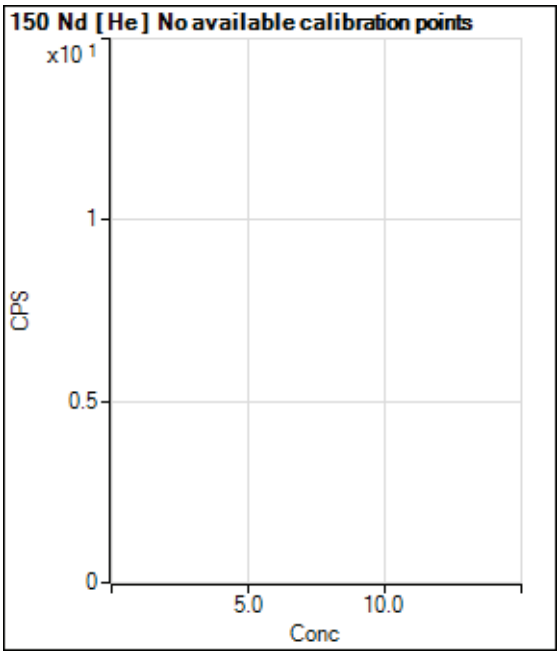
Weight: <None>

Min Conc: 0

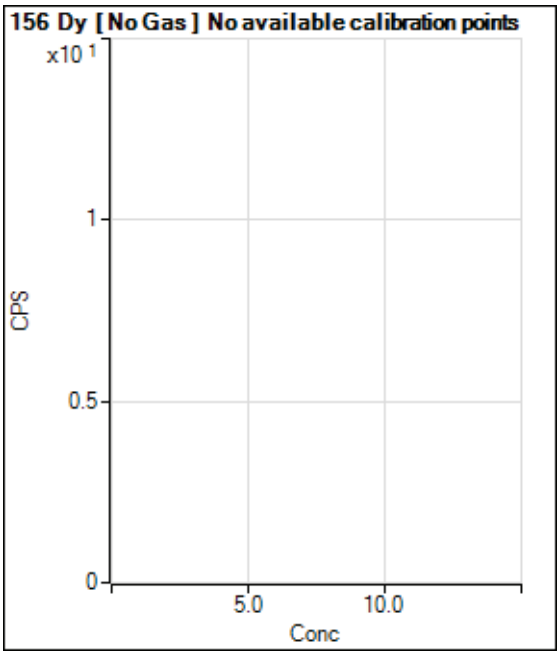


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				8.89		P	114.
2				15.55		P	24.8
3				24.44		P	31.5
4				71.11		P	46.3
5				102.23		P	7.5
6				177.78		P	13.2
7				320.01		P	9.5
8				200.01		P	NaN

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

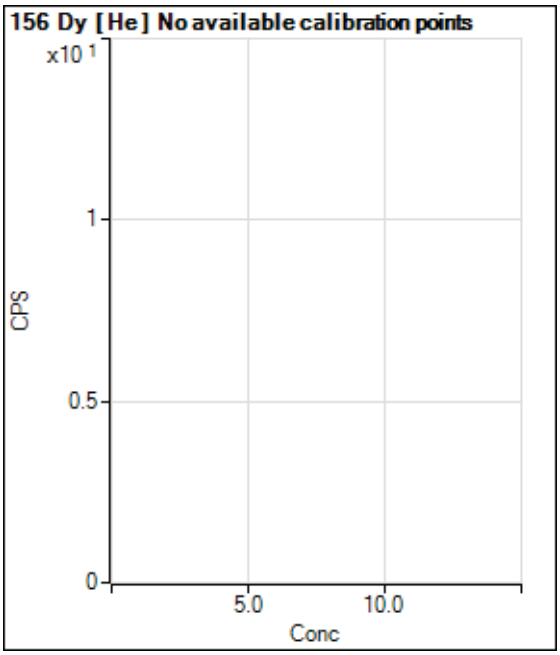


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	173.
2				3.33		P	0.0
3				4.44		P	43.4
4				8.89		P	21.6
5				10.00		P	33.3
6				12.22		P	15.7
7				48.89		P	19.7
8				53.33		P	33.1

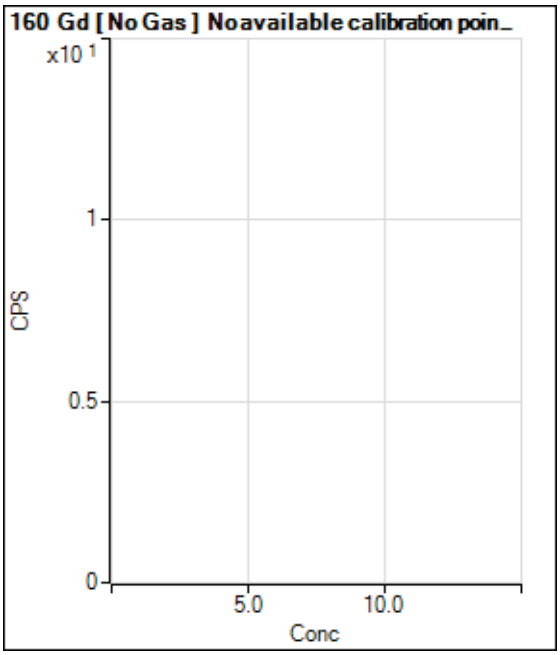


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				13.89		P	34.7
2				5.56		P	173.
3				19.45		P	24.7
4				86.12		P	24.4
5				111.11		P	11.5
6				175.01		P	36.0
7				363.90		P	25.7
8				1055.63		P	4.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

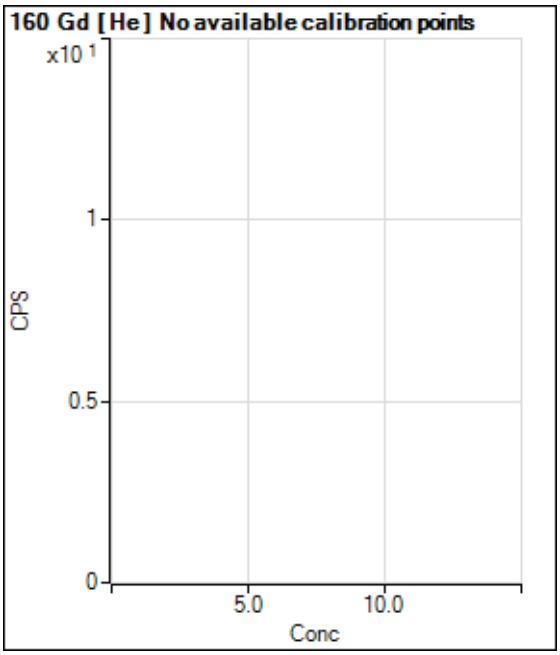


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	86.6
2				4.44		P	114.
3				10.00		P	66.7
4				26.67		P	45.1
5				32.22		P	6.0
6				77.78		P	17.8
7				180.00		P	18.8
8				497.79		P	0.4

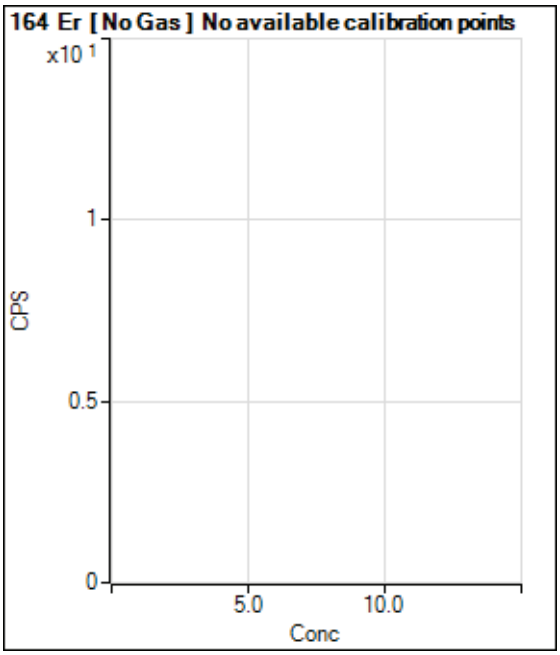


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				111.11		P	8.7
2				86.11		P	31.1
3				77.78		P	48.3
4				102.78		P	20.4
5				186.12		P	24.7
6				225.01		P	14.8
7				325.01		P	13.6
8				1183.42		P	10.2

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				130.00		P	9.2
2				100.00		P	23.3
3				114.45		P	8.9
4				161.12		P	12.1
5				147.78		P	14.7
6				196.67		P	11.1
7				291.12		P	15.8
8				796.70		P	9.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				55.56		P	17.3
2				55.56		P	48.2
3				61.11		P	41.7
4				66.67		P	12.5
5				77.78		P	16.4
6				125.01		P	17.6
7				200.01		P	23.2
8				194.45		P	20.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
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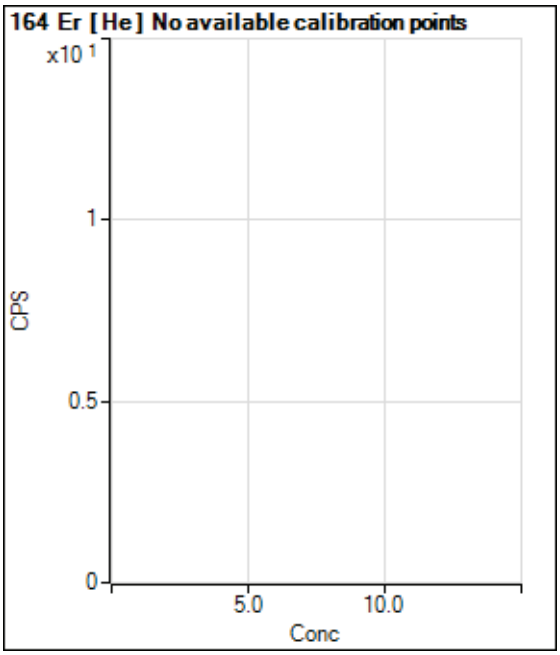
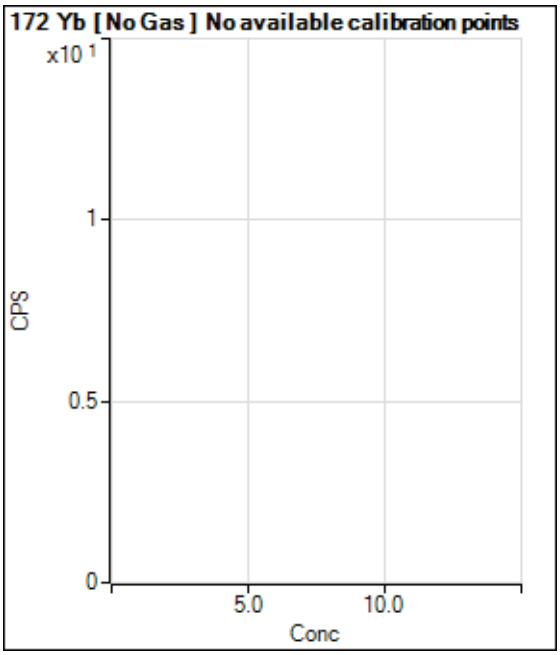
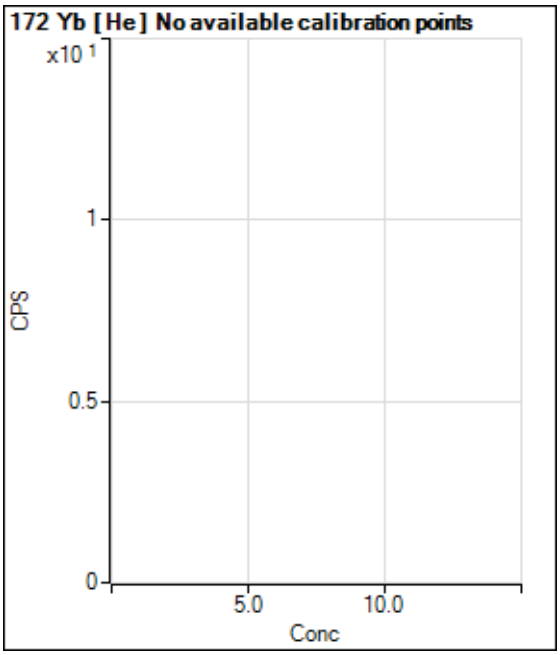


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				20.00		P	57.7
2				24.45		P	28.4
3				21.11		P	59.8
4				25.56		P	32.8
5				33.33		P	17.3
6				44.45		P	35.4
7				56.67		P	17.6
8				107.78		P	44.2

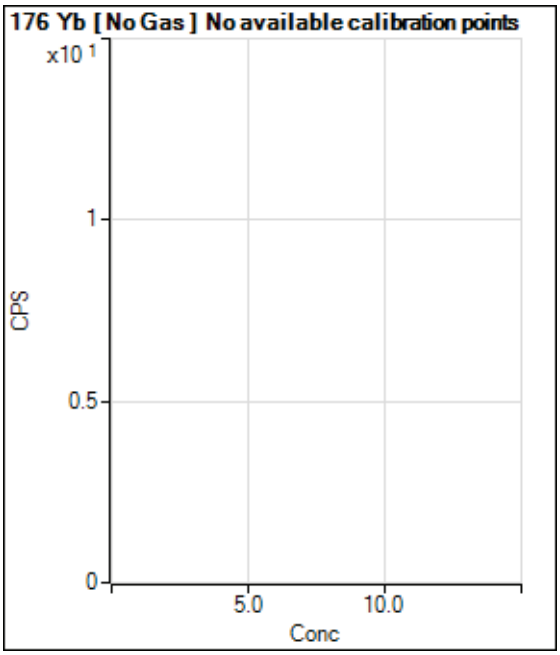


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				58.34		P	37.8
2				66.67		P	12.5
3				66.67		P	12.5
4				72.23		P	26.7
5				100.01		P	14.4
6				150.00		P	5.6
7				191.67		P	15.7
8				155.56		P	38.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

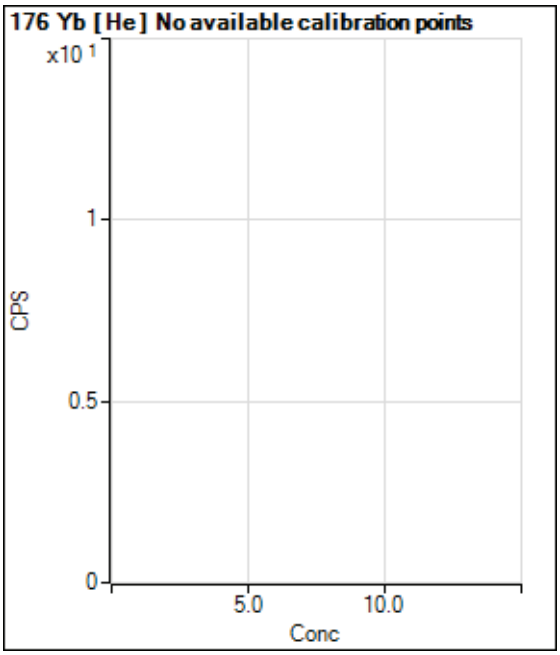


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				37.04		P	22.9
2				18.52		P	62.4
3				29.63		P	10.8
4				61.11		P	36.4
5				50.00		P	11.1
6				85.19		P	30.1
7				122.23		P	16.4
8				66.67		P	14.4

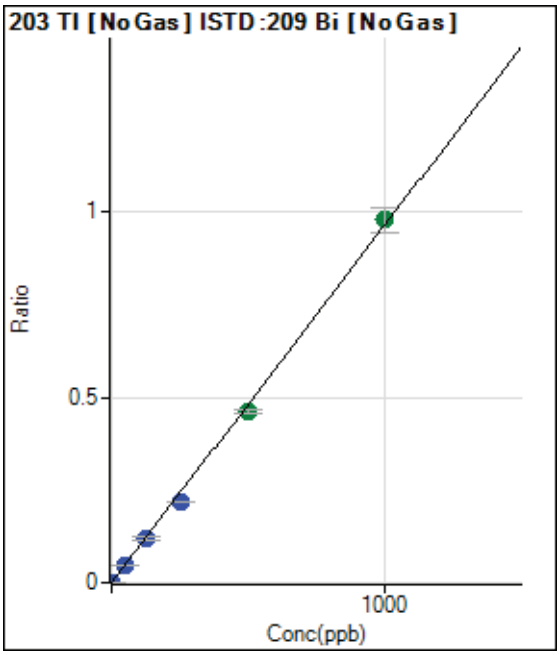


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1450.12		P	2.5
2				1450.13		P	14.5
3				2361.40		P	9.0
4				4248.01		P	4.8
5				7079.84		P	3.9
6				12828.78		P	3.5
7				25639.48		P	2.0
8				1391.78		P	11.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				10070.66		P	3.1
2				9731.51		P	4.5
3				9627.73		P	1.8
4				9879.79		P	1.0
5				11697.98		P	4.0
6				14224.54		P	1.4
7				19459.03		P	1.7
8				9679.61		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.44	0.0000	P	22.0
2		1.000	0.841	5198.41	0.0008	P	4.5
3		50.000	48.050	278594.21	0.0463	P	8.5
4		125.000	123.877	694183.61	0.1192	P	7.0
5		250.000	226.963	1345888.70	0.2185	P	1.4
6		500.000	480.048	2840542.45	0.4620	A	2.1
7		1000.000	1015.973	5774780.03	0.9778	A	6.8
8				1614.06	0.0003	P	4.8

y = 9.6246E-004 * x + 6.9558E-006

R = 0.9994

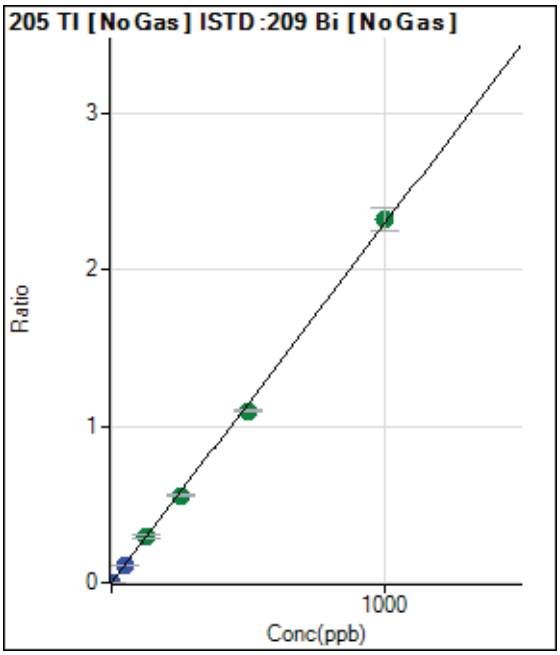
DL = 0.004776

BEC = 0.007227

Weight: <None>

Min Conc: 0

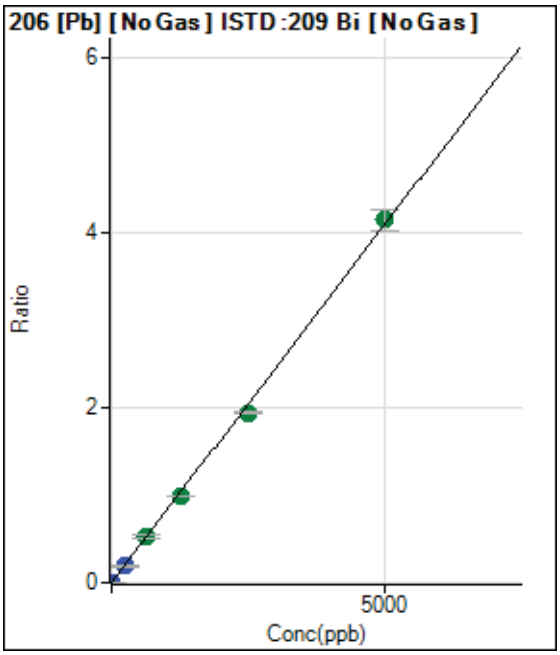
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	186.12	0.0000	P	16.6
2		1.000	0.883	13070.91	0.0021	P	1.2
3		50.000	47.993	662478.07	0.1101	P	9.8
4		125.000	130.521	1741112.63	0.2993	A	8.7
5		250.000	243.467	3439669.87	0.5582	A	0.5
6		500.000	478.942	6750475.50	1.0980	A	1.4
7		1000.000	1011.573	13698404.82	2.3191	A	6.5
8				4131.52	0.0008	P	5.4

y = 0.0023 * x + 2.9099E-005
R = 0.9996
DL = 0.006323
BEC = 0.01269

Weight: <None>
Min Conc: 0

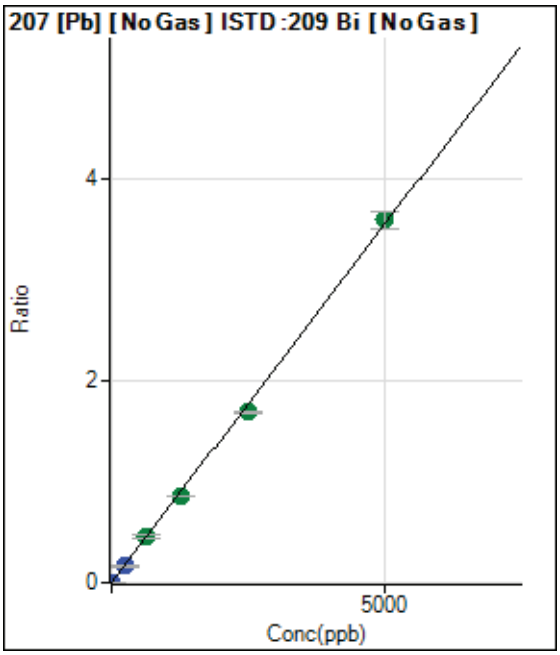


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	651.88	0.0001	P	8.2
2		1.000	0.849	5069.59	0.0008	P	1.3
3		250.000	234.630	1156358.40	0.1920	P	8.6
4		625.000	653.547	3112666.16	0.5346	A	6.8
5		1250.000	1210.719	6101427.05	0.9903	A	0.6
6		2500.000	2373.779	11935490.31	1.9414	A	1.4
7		5000.000	5070.131	24500926.01	4.1466	A	5.5
8				12600.47	0.0024	P	3.2

y = 8.1783E-004 * x + 1.0194E-004
R = 0.9995
DL = 0.03081
BEC = 0.1247

Weight: <None>
Min Conc: 0

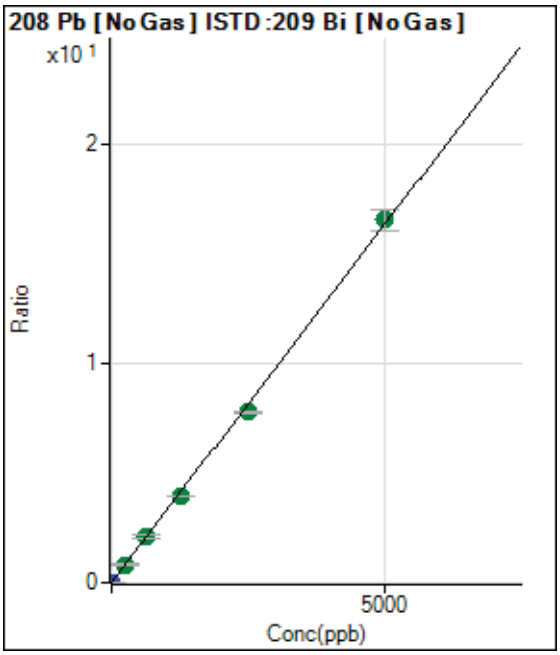
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	557.43	0.0001	P	5.9
2		1.000	0.854	4404.54	0.0007	P	3.9
3		250.000	235.112	1004484.19	0.1667	P	7.4
4		625.000	648.938	2675715.48	0.4599	A	8.7
5		1250.000	1208.510	5276119.73	0.8564	A	1.1
6		2500.000	2383.559	10383160.88	1.6889	A	1.5
7		5000.000	5066.345	21214783.34	3.5897	A	5.1
8				10896.18	0.0020	P	8.7

y = 7.0853E-004 * x + 8.7189E-005
R = 0.9995
DL = 0.02174
BEC = 0.1231

Weight: <None>
Min Conc: 0

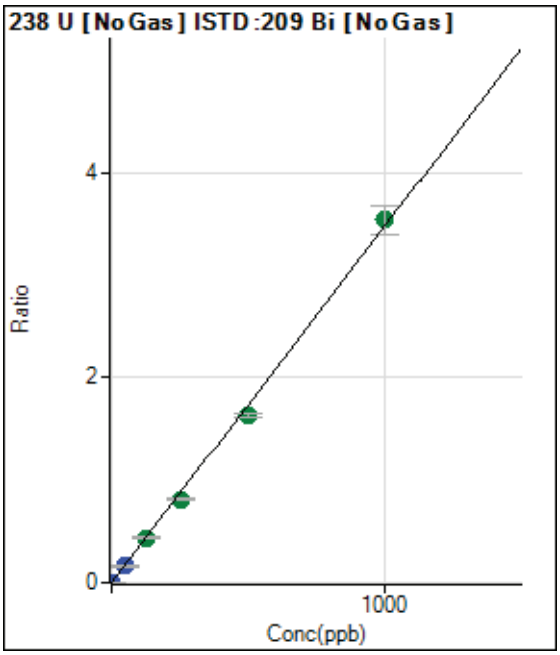


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2594.60	0.0004	P	2.1
2		1.000	0.841	20074.96	0.0032	P	2.2
3		250.000	246.724	4857126.80	0.8063	A	8.2
4		625.000	645.757	12276075.94	2.1096	A	8.2
5		1250.000	1209.189	24336955.29	3.9499	A	0.7
6		2500.000	2379.131	47777896.90	7.7712	A	1.0
7		5000.000	5068.207	97811839.22	16.5543	A	5.6
8				50987.96	0.0096	P	4.7

y = 0.0033 * x + 4.0581E-004
R = 0.9995
DL = 0.007974
BEC = 0.1242

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	49.7
2		1.000	0.833	18416.62	0.0029	P	4.2
3		50.000	46.996	982838.76	0.1631	P	8.1
4		125.000	126.287	2552268.22	0.4384	A	7.1
5		250.000	234.390	5012756.10	0.8136	A	1.4
6		500.000	470.288	10037671.84	1.6325	A	2.3
7		1000.000	1018.748	20872726.85	3.5364	A	8.3
8				4078.86	0.0008	P	7.7

y = 0.0035 * x + 3.0456E-006

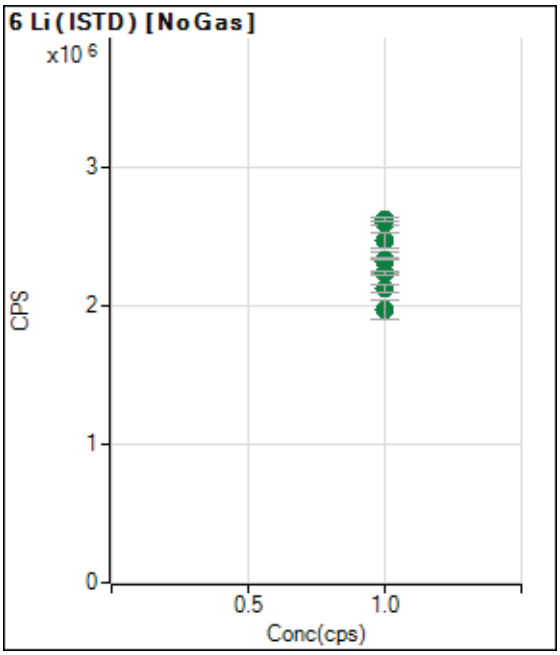
R = 0.9992

DL = 0.001309

BEC = 0.0008774

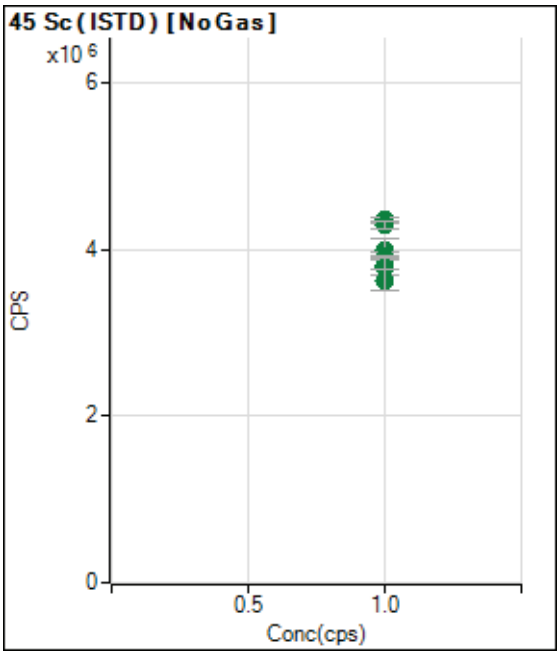
Weight: <None>

Min Conc: 0

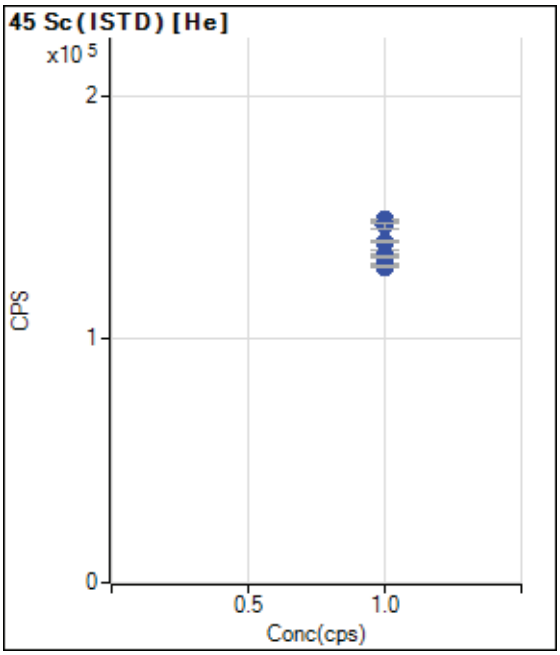


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2603032.20		A	1.0
2		1.000		2623846.94		A	0.9
3		1.000		2476707.42		A	4.4
4		1.000		2320087.36		A	6.7
5		1.000		2340265.67		A	0.9
6		1.000		2239711.47		A	1.8
7		1.000		2124741.75		A	3.0
8		1.000		1974910.39		A	7.0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

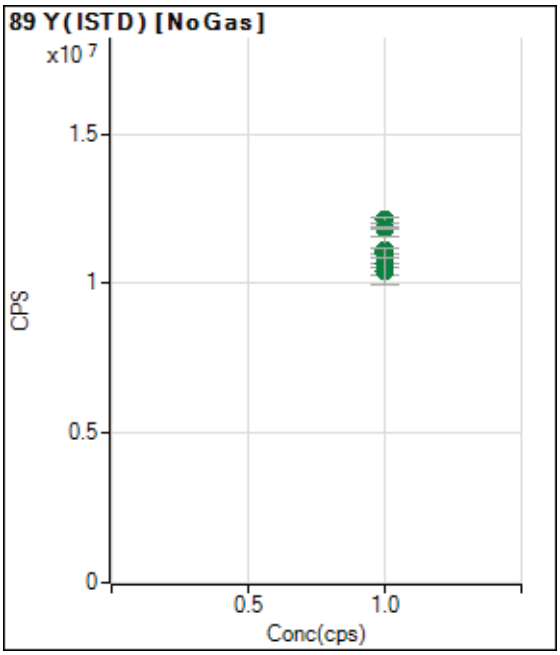


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4354339.21		A	1.6
2		1.000		4291225.14		A	1.9
3		1.000		4000697.19		A	6.2
4		1.000		3811369.08		A	6.4
5		1.000		3926135.50		A	1.8
6		1.000		3904489.28		A	1.3
7		1.000		3795074.73		A	5.1
8		1.000		3627130.68		A	7.2

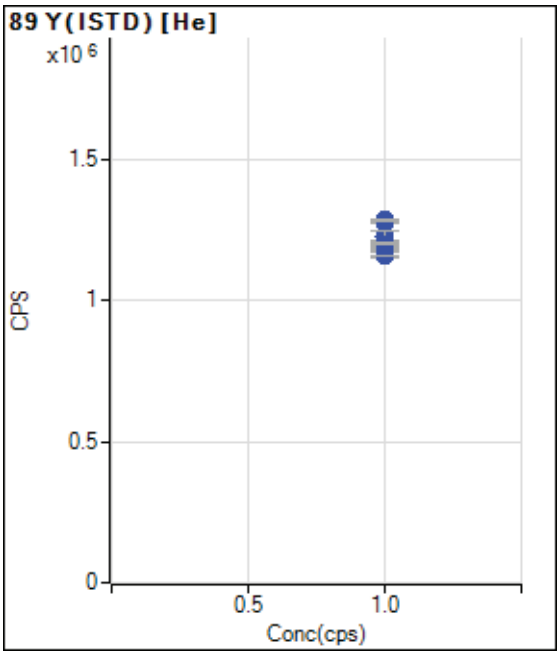


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		148863.48		P	0.6
2		1.000		146575.32		P	1.7
3		1.000		140030.43		P	0.9
4		1.000		134510.23		P	0.9
5		1.000		133351.78		P	4.1
6		1.000		129639.02		P	0.4
7		1.000		134098.09		P	1.3
8		1.000		133836.89		P	0.7

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

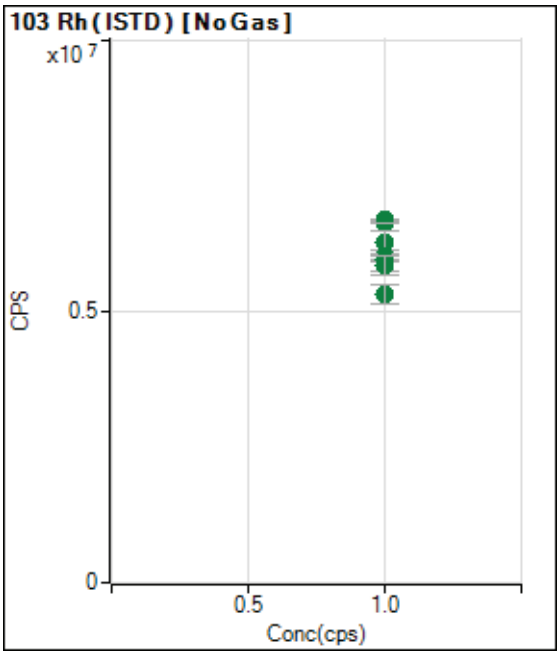


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		12130107.46		A	1.4
2		1.000		11841834.96		A	0.5
3		1.000		11123813.31		A	7.6
4		1.000		10651010.88		A	6.6
5		1.000		10999835.60		A	2.9
6		1.000		11042027.68		A	2.7
7		1.000		10865748.59		A	6.4
8		1.000		10413027.97		A	8.1

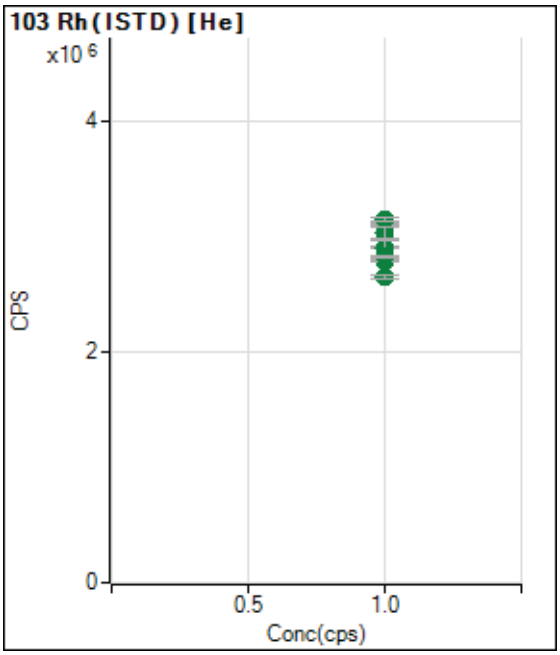


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1275974.76		P	0.5
2		1.000		1284286.62		P	0.5
3		1.000		1227872.11		P	2.7
4		1.000		1176561.98		P	0.5
5		1.000		1199825.75		M	8.1
6		1.000		1156567.87		P	0.1
7		1.000		1189821.89		P	0.6
8		1.000		1199068.12		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

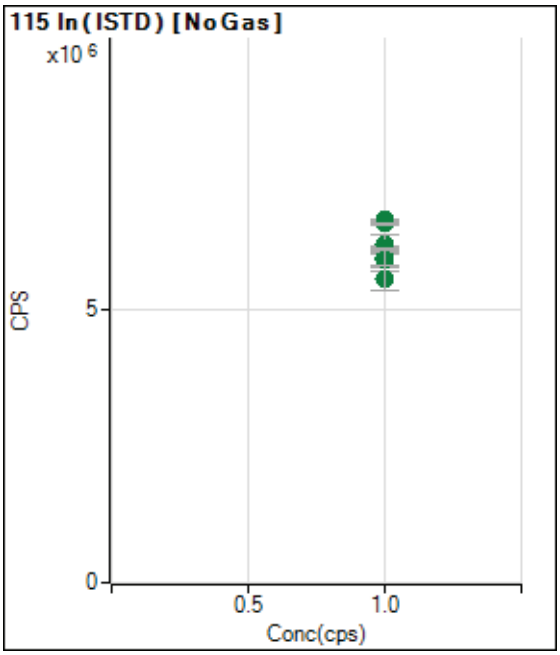


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6679451.49		A	0.8
2		1.000		6622575.97		A	0.3
3		1.000		6263544.67		A	6.3
4		1.000		5938899.09		A	6.6
5		1.000		6005473.66		A	1.6
6		1.000		5958188.50		A	2.1
7		1.000		5837414.06		A	5.9
8		1.000		5306734.97		A	6.8

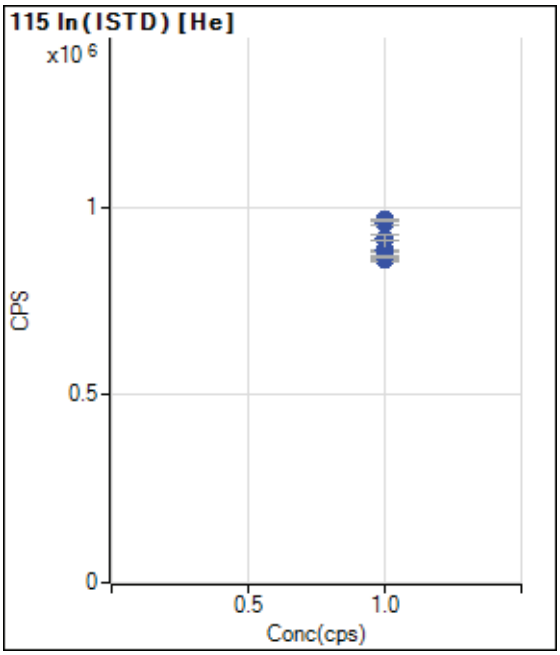


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3114670.75		A	0.6
2		1.000		3146957.73		A	1.2
3		1.000		3034344.64		A	3.1
4		1.000		2905751.49		A	0.4
5		1.000		2903493.64		A	4.9
6		1.000		2792840.93		A	0.8
7		1.000		2827706.45		A	1.0
8		1.000		2656534.92		A	1.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

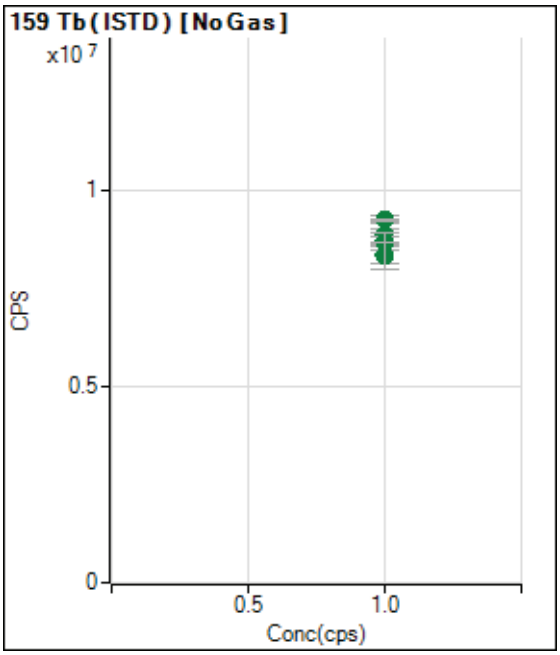


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6660958.81		A	0.7
2		1.000		6587001.59		A	0.7
3		1.000		6204830.67		A	5.6
4		1.000		5959874.15		A	5.2
5		1.000		6141761.97		A	0.7
6		1.000		6097470.25		A	0.6
7		1.000		5933258.15		A	6.7
8		1.000		5593864.69		A	7.7

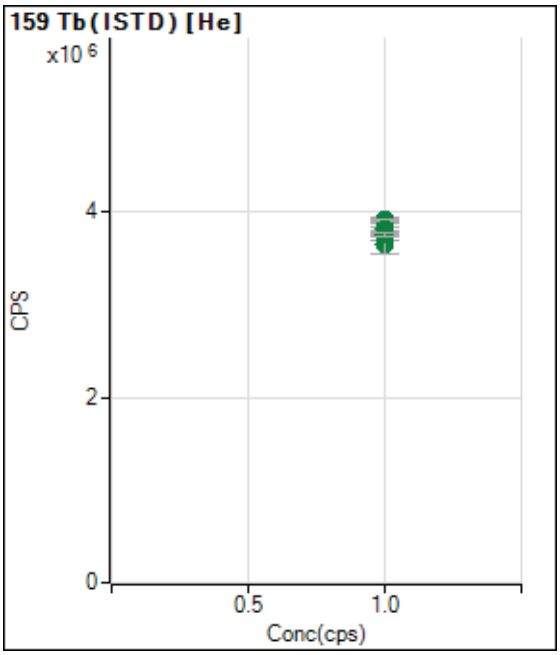


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		959068.76		P	0.6
2		1.000		967323.42		P	0.2
3		1.000		919145.54		P	1.5
4		1.000		884820.23		P	0.4
5		1.000		886993.07		P	5.5
6		1.000		860787.32		P	0.6
7		1.000		871186.62		P	0.2
8		1.000		871080.35		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

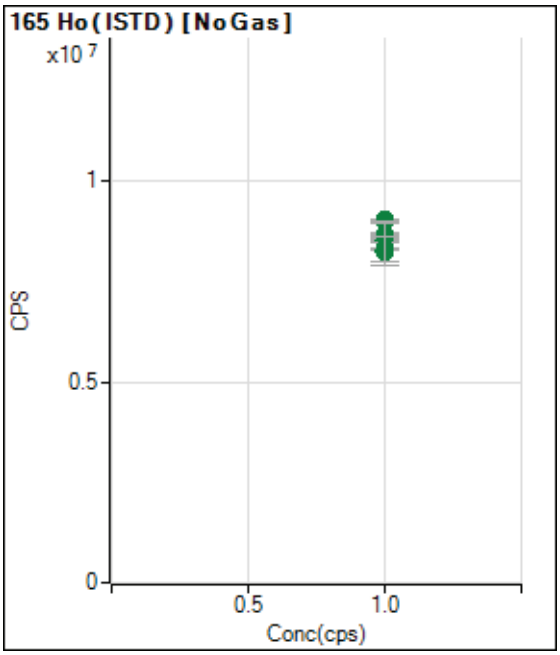


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9235681.18		A	2.1
2		1.000		9240800.70		A	0.8
3		1.000		8792578.13		A	5.4
4		1.000		8390581.40		A	6.0
5		1.000		8704279.11		A	3.1
6		1.000		8848541.12		A	1.1
7		1.000		8690576.96		A	5.3
8		1.000		8319441.61		A	8.3

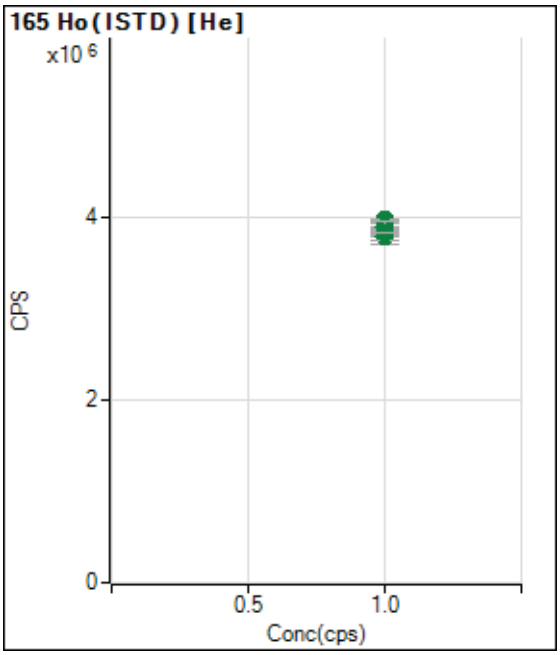


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3919389.80		A	1.4
2		1.000		3916865.43		A	0.7
3		1.000		3819436.40		A	0.8
4		1.000		3734282.48		A	1.4
5		1.000		3662839.39		A	5.6
6		1.000		3757439.94		A	1.2
7		1.000		3793328.80		A	0.5
8		1.000		3766357.38		A	1.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

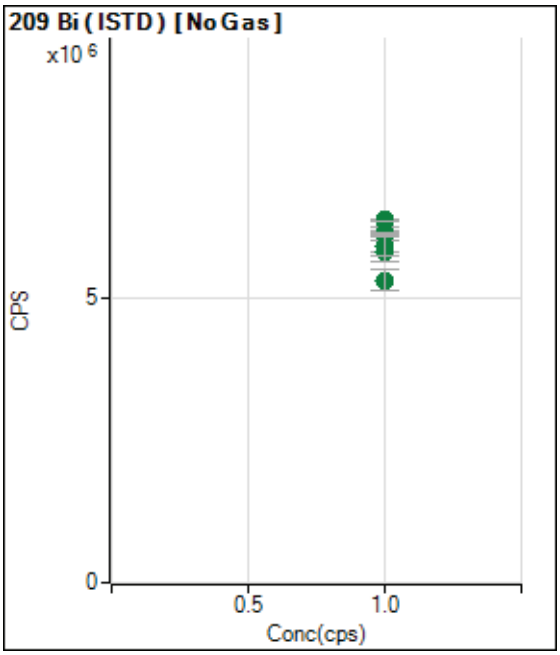


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9043296.91		A	0.6
2		1.000		8998541.69		A	0.3
3		1.000		8503689.25		A	5.0
4		1.000		8266835.43		A	6.7
5		1.000		8545550.63		A	0.9
6		1.000		8690898.20		A	0.7
7		1.000		8639384.05		A	7.4
8		1.000		8271170.32		A	8.3

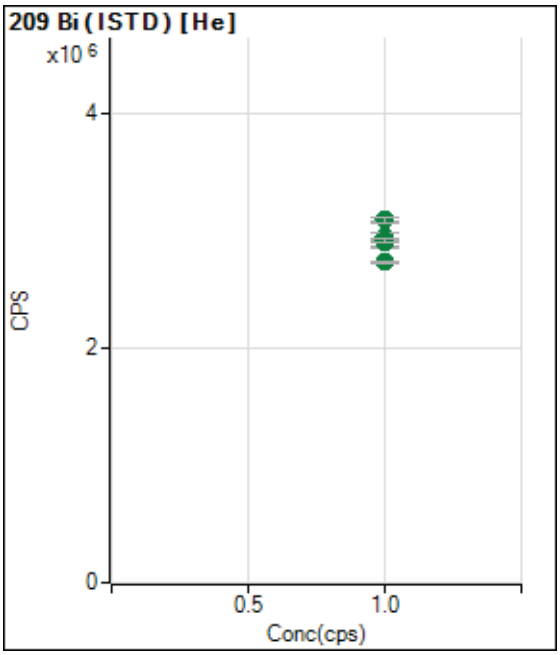


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3980551.61		A	0.4
2		1.000		3971211.16		A	1.0
3		1.000		3874259.84		A	1.0
4		1.000		3810003.21		A	0.8
5		1.000		3804769.63		A	4.4
6		1.000		3793520.43		A	1.5
7		1.000		3911079.87		A	2.7
8		1.000		3841472.68		A	0.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6393530.67		A	0.5
2		1.000		6365132.34		A	0.2
3		1.000		6048848.52		A	7.5
4		1.000		5838978.53		A	6.2
5		1.000		6161777.20		A	1.7
6		1.000		6148096.02		A	0.8
7		1.000		5921521.92		A	5.9
8		1.000		5332219.29		A	7.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3093564.29		A	1.0
2		1.000		3095061.59		A	1.4
3		1.000		2956754.16		A	1.7
4		1.000		2896746.13		A	1.3
5		1.000		2923960.93		A	4.4
6		1.000		2907002.56		A	0.7
7		1.000		2919972.60		A	1.3
8		1.000		2731748.68		A	0.4

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8071223 MS.b
Acq. Date-Time	2023-07-12 09:39:12
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9014	90140.09			2.552	5.000
24		368357	3683569.46			2.338	5.000
25		48006	480058.03			2.199	5.000
26		56968	569677.38			2.515	5.000
59		72216	722163.49			3.971	5.000
113		8162	81623.54			1.946	5.000
115		105309	1053092.38			2.916	5.000
206		27278	272775.17			2.065	5.000
207		24422	244220.42			2.541	5.000
208		59663	596630.07			2.043	5.000
220		0	1.80			31.672	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

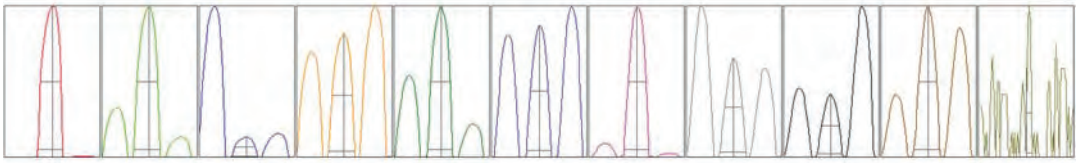
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9329	9125	8726	9007	8883
24	375525	371893	353426	369828	371113
25	49498	48063	46537	47781	48150
26	59211	56844	55207	56788	56789
59	76893	72374	69150	71455	71209
113	8336	8173	7924	8268	8110
115	109675	105847	101060	105202	104762
206	27668	27261	26333	27736	27390
207	24889	24259	23408	24687	24867
208	60223	60011	57550	59869	60663

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14938.29	9.05	8.90 - 9.10	
24	603107.28	24.00	23.90 - 24.10	
25	79799.58	25.00	24.90 - 25.10	
26	94110.22	26.00	25.90 - 26.10	
59	126702.00	59.00	58.90 - 59.10	
113	15450.12	113.05	112.90 - 113.10	
115	196437.37	115.05	114.90 - 115.10	
206	50983.21	206.00	205.90 - 206.10	
207	45744.55	207.00	206.90 - 207.10	
208	109964.61	208.00	207.90 - 208.10	
220	0.35	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.65	0.831	0.900	
25	0.64	0.792	0.900	
26	0.64	0.830	0.900	
59	0.60	0.780	0.900	
113	0.55	0.771	0.900	
115	0.55	0.775	0.900	
206	0.55	0.826	0.900	
207	0.55	0.794	0.900	
208	0.56	0.814	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16458	164584.20			3.791	
89		39407	394074.21			3.812	
205		21515	215146.59			3.059	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16651	16919	15781	17123	15819
89	39846	40389	38099	41105	37597
205	21824	21756	20499	22216	21278

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	3.8 V

US EPA Tune Check Report

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r &p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RC&w
c P b A C A b	2072	7SF5N	SF50	SF51	SFSS	u 5c	l l e
c C&b nC/	12171	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
c pwr C A q	0y72	7SF51	SF51	SFSS	SFSS	u 5c	l l e
Bsp A b	1- y71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
Bsp A b	1- 071	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
Br p/ P A b	J71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
B A b m&a	2SJ71				1SS		%
B A b m&a	2SJ72				1SS		%
B p b A O r	N171						ql w
. sO b A b	1SN71	SF5-	7SF51	7SF52	SFSS	u 5c	l l e
. sO b A b	1S671	1FNy	7SFJN	7SFNN	SFSS	u 5c	l l e
. sO b A b	11171	SF52	7SF51	SFSS	SFSS	u 5c	l l e
. sP q A b	4- 71	7SF66	SF- y	SF- 1	SFSS	u 5c	l l e
. sP q A b	4471	71F- 2	1F54	SF2N	SFSS	u 5c	l l e
. spenC	1271						ql w
. spenC	1272						ql w
. h P p A O r	- y71						ql w
. h P p A O r	- y72						ql w
. hpmb A b	y272	7SF56	7SF52	SF50	SFSS	u 5c	l l e
. nesR&	yJ72	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
. nl l r p	6- 72	SF5-	7SF5-	SFSS	SFSS	u 5c	l l e
t / wl pnw A b	1y671						ql w
t / wl pnw A b	1y672						ql w
Epe A b	16471						ql w
Epe A b	16472						ql w
Gs O nF A C A b	16S71						ql w
Gs O nF A C A b	16S72						ql w
H nP b A b	16y71				1SS		%
H nP b A b	16y72				1SS		%
DDO A b	11y71				1SS		%
DDO A b	11y72				1SS		%
Dpn C	y472	7SF2N	SF60	7SF- N	SFSS	u 5c	l l e
Dpn C	y672	7SF5-	SF54	7SF51	SFSS	u 5c	l l e
Dpn C	y072	71F1-	SF5y	1F5J	SFSS	u 5c	l l e
Kp/ l &a C	N- 71						ql w
Lr sO	2S671	SFSS	7SF51	SF51	SFSS	u 5c	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t Ap&nC Usq&ap:	1
t s& T i Av r cqdmAr O:	2S2- 7S0712 12:SJ:14	t s&sUAP usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RCA&w
LrsO	2S071	SFSS	SFS1	SFSS	SFSS	u5c	l l e
LrsO	2SN71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
LA&nAmb	671				1SS		%
9 sMOr wAmb	2472	7SF21	7SF2N	SF4J	SFSS	u5c	l l e
9 sOMsOr w	yy72	SFSS	SFS1	7SFS2	SFSS	u5c	l l e
9 nP eOr Omb	J471	SFS2	7SFS1	7SFS1	SFSS	u5c	l l e
9 nP eOr Omb	Jy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
9 nP eOr Omb	J671	7SFS1	7SFS1	SFS1	SFSS	u5c	l l e
9 nP eOr Omb	J071	7SFS1	SFS2	7SFS1	SFSS	u5c	l l e
9 nP eOr Omb	JN71	SFSS	SFSS	SFS1	SFSS	u5c	l l e
u r nO b Amb	1yS71						ql w
u r nO b Amb	1yS72						ql w
u Aqkr P	6S72	SFSS	7SFS1	SFS1	SFSS	u5c	l l e
8hnwl hnpmw	- 172	16F46	yF6y	746Fy2	7NF14		l l e
8 n&swwAmb	- J72	71F41	SF14	1F20	SFSS	u5c	l l e
v hnOAmb	1S- 71				1SS		%
v hnOAmb	1S- 72				1SS		%
3 qsCOAmb	4y71				1SS		%
3 qsCOAmb	4y72				1SS		%
3 r P CAmb	N271	7SF2N	SF14	SF14	SFSS	u5c	l l e
3 r P CAmb	0072	7SF- N	SF0y	7SF- N	SFSS	u5c	l l e
3 r P CAmb	0N72	SF2N	7SF2-	7SFS4	SFSS	u5c	l l e
3 AAqnC	2N71	SFSS	SFS2	7SFS2	SFSS	u5c	l l e
3 A gr p	1S071	SFSS	SFSS	SFS1	SFSS	u5c	l l e
3 A gr p	1SJ71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
3 nOAmb	2- 72	2F2S	71FSy	71F1y	SFSS	u5c	l l e
3 &nC&Amb	N671	SFSS	7SFS2	SFS2	SFSS	u5c	l l e
3 &nC&Amb	NN71	SFS1	7SFS1	SFSS	SFSS	u5c	l l e
3 mPmp	- 471	71J6FJS	711F00	7210F42	7142FS-		l l e
i r pe Amb	1yJ71				1SS		%
i r pe Amb	1yJ72				1SS		%
i hsPAmb	2S- 71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i hsPAmb	2Sy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i AC	11N71	7SFS2	SFS1	SFS1	SFSS	u5c	l l e
i A&sCAmb	4071	SFSS	SFSy	7SFS4	SFSS	u5c	l l e
RpsCAmb	2- N71	SFSS	SFSS	SFSS	SFSS	u5c	l l e

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D Dw&pmb Cr &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nCvr l 1	. nCvr l 2	. nCvr l -	cgMF. nCqF	. nCqv 3t	RCA&w
VsCsOAmb	y172	SFSS	SFSS	SFSS	SFSS	u5c	l l e
Y&&pe Amb	10271						ql w
Y&&pe Amb	10272						ql w
Y&&pe Amb	10671						ql w
Y&&pe Amb	10672						ql w
Y&&pA mb	NJ71				1SS		%
Y&&pA mb	NJ72				1SS		%
ZACq	6672	7SFS1	SFSS	SFS1	SFSS	u5c	l l e
ZAqnCAmb	JS71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
ZAqnCAmb	J171	SFS2	SFS1	7SFS-	SFSS	u5c	l l e

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju rwo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju rwo pl :	3 S2	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
i wNu TbTNu	2072	1MGSn	1MGD6	1MG12	1MG 1	2GS2	r r m
i oDDu Coy	12171	1GP6	1GD1	1GDn	1GD0	4G 0	r r m
i eeaboTA	0n72	1G1-	1G12	SGM1	1GSn	11GP6	r r m
BJeTNu	1- n71	MGS6	PGD4	PG44	PG6P	- GP1	r r m
BJeTNu	1- 071	PGD2	MGPn	MG1S	MG22	6G22	r r m
Bbeywi TNu	M71	SGM0	1GS1	SGMM	SGMM	1GPn	r r m
BTau NDn	2SM71				1SS		%
BTau NDn	2SM72				1SS		%
BeOu Tbb	P171						A r a
5 Jqu TNu	1SP71	SGPS	1G1n	SGMM	SGMP	10G60	r r m
5 Jqu TNu	1S671	72G11	2G M	71G4n	7SG M		r r m
5 Jqu TNu	11171	SGP4	SGM-	SGM6	SGM1	6GDP	r r m
5 JvATNu	4- 71	414G4n	441G1P	44SGDn	4- 2G1-	- GD4	r r m
5 JvATNu	4471	41MG4P	440GPM	442G M	4- 6GDM	- G4n	r r m
5 JemOo	1271						A r a
5 JemOo	1272						A r a
5 hwDeTbb	- n71						A r a
5 hwDeTbb	- n72						A r a
5 heOu TNu	n272	1GPP	1GMh	1GM-	1GM2	1G6M	r r m
5 OmJwD	nM72	SGM6	SGM6	SGMh	SGM6	SG4P	r r m
5 Orr be	6- 72	1GPM	1GP2	1GPM	1GP0	2G S	r r m
I yar eOaTNu	1n671						A r a
I yar eOaTNu	1n672						A r a
EemTNu	16471						A r a
EemTNu	16472						A r a
GJqOwbTNu	16S71						A r a
GJqOwbTNu	16S72						A r a
HOw TNu	16n71				1SS		%
HOw TNu	16n72				1SS		%
poqTNu	11n71				MM		%
poqTNu	11n72				1S1		%
peOo	n472	nSGDM	40G20	n1GD4P	4MGPP	4G6S	r r m
peOo	n672	4PG61	46GMh	4PG6M	4PGSM	2GSn	r r m
peOo	n072	44GS6	40GP4	4PG4-	46GDP	nGS0	r r m
Keyr DDo	P- 71						A r a
LbJq	2S671	SGPn	SGP6	SGP4	SGPn	1GD4	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
LbJq	2S071	SCPM	SCP2	SCPn	SCPn	4C44	r r m
LbJq	2SP71	SCP4	SCP6	SCP2	SCP4	2C06	r r m
LTDTNu	671				1S1		%
g JvobaTNu	2472	404C40	40nC11	4M2C10	4PSC0P	2CSM	r r m
g JovJobab	nn72	SCM6	SCM4	SCP4	SCM1	6C62	r r m
g OymqboNu	M471	nCSS	nCSM	nG 2	nC1-	- C1P	r r m
g OymqboNu	Mn71	4G P	4C41	4C2n	4G n	2CSS	r r m
g OymqboNu	M671	4C42	4C4M	4G 6	4C42	1C46	r r m
g OymqboNu	M071	4G 2	4C1M	4G 6	4C2M	2C12	r r m
g OymqboNu	MP71	4C0n	4C2-	4C4-	4C4S	- C06	r r m
8 bOqyu TNu	1nS71						A r a
8 bOqyu TNu	1nS72						A r a
8 TAkbw	6S72	1CS6	1C1S	1C16	1C11	4G -	r r m
I hOarhOaNa	- 172	4C16	710CS4	- 0G S	PC14	- - 6C00	r r m
I CDJaaTNu	- M72	40- CS1	4n6C66	4n6C11	4610C4	2CSP	r r m
UhOqTNu	1S- 71				MM		%
UhOqTNu	1S- 72				1S1		%
3 AJoqTNu	4n71				MM		%
3 AJoqTNu	4n72				MP		%
3 bwboTNu	P271	nC12	4C2-	4C04	4C06	MC06	r r m
3 bwboTNu	0072	2C00	6G P	4CSM	4C4P	- PCPS	r r m
3 bwboTNu	0P72	- C0h	6CS0	4C26	4C06	24CS4	r r m
3 TWACo	2P71	SC0M	SC02	SC60	SC66	1SC4M	r r m
3 TWbe	1S071	SCM2	SCM0	SCMP	SCM6	- CS6	r r m
3 TWbe	1SM71	SCM1	SCM0	SCM2	SCM4	2C04	r r m
3 OqTNu	2- 72	4P0CM2	40- C4n	4M2C04	4P4C0S	2CS0	r r m
3 DaOoDTNu	P671	SCPP	SCPn	SCP0	SCP6	1C0-	r r m
3 DaOoDTNu	PP71	SCM4	SCPM	SCP0	SCMS	- CP4	r r m
3 NvNe	- 471	716SC0S	2MPC1-	2PPC60	142CS-	1P4C62	r r m
&bemTNu	1nM71				1SS		%
&bemTNu	1nM72				1SS		%
&hJwTNu	2S- 71	SCPM	SCP-	SCP1	SCP4	4C0P	r r m
&hJwTNu	2Sn71	SCP0	SCPP	SCPM	SCPP	1C2-	r r m
&Tb	11P71	4G 4	4G 2	4C44	4G 0	1C40	r r m
&TDJoTNu	4071	4C46	4C4-	4C06	4C4P	1C42	r r m
F eJoTNu	2- P71	SCP1	SCP0	SCP1	SCP-	4C22	r r m

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
VJoJqTNu	n172	4CPn	4C62	4C6P	4CC2	2C04	r r m
YDDbemTNu	10271						Ar a
YDDbemTNu	10272						Ar a
YDDbemTNu	10671						Ar a
YDDbemTNu	10672						Ar a
YDDbTNu	PMV71				MP		%
YDDbTNu	PMV72				1S1		%
ZTbA	6672	2C1M	2CS0	2C4-	2CC2-	PC2S	r r m
ZTbACoTNu	MS71	SCC0	SCPM	SCC4	SCPS	MCPM	r r m
ZTbACoTNu	M171	SCC0	SCPS	SCPM	SCP2	0CP1	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARVC5oncC	5oncU3D	Fnits
Aluminium	2072	1S90C92	1S9M40	1S48CSS	1S99CSS	SC98	ppb
Antimony	1217 1	9- C49	40C28	48CS-	4MC98	6C0M	ppb
Arsenic	0972	91C9S	9- CS2	9- C9S	92C60	10CM	ppb
Barium	1- 97 1	26SC 2	2- 8C30	241CS6	246C09	4C08	ppb
Barium	1- 07 1	269C48	241C24	242C36	24MC36	9C42	ppb
Beryllium	M7 1	9- C68	4MC4M	4MC0 9	91CS4	4C9S	ppb
Bismuth	2SM7 1				M9		%
Bismuth	2SM7 2				M6		%
Bromine	817 1						cps
5admium	1S87 1	6SC66	94CS2	92C98	99C09	0C0-	ppb
5admium	1S67 1	9- CS6	92C0M	4MC0M	91C04	- C9M	ppb
5admium	1117 1	90C28	91C 6	9- C90	94CS0	9C9-	ppb
5alcium	4- 7 1	98M2C 9	92- - C16	9208C0	9468C16	6C0-	ppb
5alcium	447 1	9062C9-	9114C6M	929MC02	9- 08C08	6C 2	ppb
5arbon	127 1						cps
5arbon	127 2						cps
5hlorine	- 97 1						cps
5hlorine	- 97 2						cps
5hromium	927 2	9SC S	9SCS9	48C29	4MC9-	2C26	ppb
5obalt	9M7 2	91CS0	4MC32	4MC90	9SC19	1C6S	ppb
5opper	6- 7 2	912C26	9SMC6-	4MC06M	9S6C9-	1C9-	ppb
Dysprosium	1967 1						cps
Dysprosium	1967 2						cps
Erbium	1647 1						cps
Erbium	1647 2						cps
Gadolinium	16S7 1						cps
Gadolinium	16S7 2						cps
Holmium	1697 1				M4		%
Holmium	1697 2				M0		%
Indium	1197 1				M4		%
Indium	1197 2				M6		%
Iron	947 2	26S- C26	2641C6-	2994C2S	29MMC0S	1C6M	ppb
Iron	967 2	2010C31	2049C0S	20SSC4M	2021C-	SC34	ppb
Iron	907 2	2618C 4	29- 1C6M	29S6C0 9	2992C-	2C2M	ppb
Krypton	8- 7 1						cps
Lead	2S67 1	290C6M	22SCS9	226C19	2- 4C6-	8C61	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	Fnits
Lead	2S071	299CS8	224C04	229C92	2- 9C11	0C6	ppb
Lead	2S871	26M8-	2- 2C29	2- 8CSM	246C02	8C2S	ppb
Lithium	671				M9		%
g avnesium	2472	94- M026	941- C4-	9262C22	9- 01C64	1C08	ppb
g anvanese	9972	9S- C09	4M6C49	488C2	4M6C24	1C90	ppb
g olybdenum	M471	99M62	480C89	4M9C1M	914C4M	0C64	ppb
g olybdenum	M971	996C69	4M0C19	912CS0	921C06	9C04	ppb
g olybdenum	M671	901C01	4M0C6M	911C42	926C04	0C40	ppb
g olybdenum	M071	96- C6S	484C8S	4M0C1M	919C46	8C1M	ppb
g olybdenum	M871	909C4-	4M- C14	9S6CSS	924C86	8C4-	ppb
Neodymium	19S71						cps
Neodymium	19S72						cps
Nickel	6S72	94C09	9- C9-	92C82	9- C0S	1C82	ppb
Phosphorus	- 172	1S10C21	1S- 2C2S	1S48C6M	1S- 2C0S	1C92	ppb
Potassium	- M72	2990C2M	2926C09	2916C9M	29- - C61	SC8-	ppb
Uhodium	1S- 71				M4		%
Uhodium	1S- 72				M0		%
3candium	4971				M2		%
3candium	4972				M4		%
3elenium	8271	6SC0S	9- C0M	91C02	99C40	8C42	ppb
3elenium	0072	69C6S	40C86	44CSS	92C4M	21C09	ppb
3elenium	0872	94C00	9M4S	6- C96	9M24	0C42	ppb
3ilicon	2871	61C09	9- C61	94C04	96C8-	0C68	ppb
3ilRer	1S071	99C01	9SC84	91C9M	92C02	4C00	ppb
3ilRer	1SM71	96C1M	9SCS-	9SC40	92C2-	6C98	ppb
3odium	2- 72	9669C00	998SC98	9482C60	9906C4	1C64	ppb
3trontium	8671	1419C16	12- 9C64	1291C0S	1- SSC8-	0C64	ppb
3trontium	8871	1- 80C08	1226CS6	121M8S	1200C88	0C49	ppb
3ulfur	- 471	- S29C4-	1- M9C2-	1406C10	1M69C1	46C04	ppb
Terbium	19M71				M9		%
Terbium	19M72				M0		%
Thallium	2S- 71	92C06	49C49	49C04	48CS9	8C9S	ppb
Thallium	2S971	9- C9	44C91	46C12	40C0M	M81	ppb
Tin	11871	94C12	48C4M	48C0M	9SC40	6C28	ppb
Titanium	4071	940C8S	4M2C8	4M9C8-	912CSS	6CS6	ppb
Franium	2- 871	91C8	44C44	49C18	40CSS	8C11	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	F nits
Vanadium	9172	91C2S	92C42	9SC00	91C46	1C66	ppb
Ytterbium	10271						cps
Ytterbium	10272						cps
Ytterbium	10671						cps
Ytterbium	10672						cps
Yttrium	8M71				M2		%
Yttrium	8M72				M6		%
Zinc	6672	921CSS	91M48	9S4C49	9140C8	1C08	ppb
Zirconium	MS71	9- C6M	40C M	48C12	4MC0-	6C04	ppb
Zirconium	M171	9- C0	46C44	48CS-	4MC48	8CS2	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTb
i lNu TbTNu	2072	26S45- 2	2g4- 524	2g9056S	2g095- M	1522	r r m
i oDu Coy	12171	116569	1- 05- M	129591	12056-	951g	r r m
i esboTA	0g72	1- S5- S	126592	126599	1295SS	15g6	r r m
BaeTNu	1- g71	g92511	69M5SS	64g5- M	6- 9594	9541	r r m
BaeTNu	1- 071	gM- 560	6M65S-	6465M1	64g5g4	05M-	r r m
BbeylITNu	M71	11M5- 9	14155S1	12052-	12M52S	9540	r r m
BTsu NDn	2SM71				M1		%
BTsu NDn	2SM72				M4-		%
BeOu Tbb	9171						Ar s
n aqu TNu	1S971	1- - 5SS	1495MS	14S52M	14S50-	g566	r r m
n aqu TNu	1S671	12456M	1gS564	1- 652M	1- 0521	M540	r r m
n aqu TNu	11171	12g5- 2	1495- 2	14S500	1- 9514	954M	r r m
n alATNu	4- 71	126SM5- S	1492252-	1- gg9502	1- 66- 542	951-	r r m
n alATNu	4471	122915MM	14- 9S52g	1- g60562	1- 4SM5Mg	059M	r r m
n aemOo	1271						Ar s
n aemOo	1272						Ar s
n hlOeTbb	- g71						Ar s
n hlOeTbb	- g72						Ar s
n heOu TNu	g272	12- 560	11M51M	11M500	12S590	25S1	r r m
n OmalD	gM72	1265M1	12- 516	12g5SS	12g52-	15g2	r r m
n Or r be	6- 72	1- 02526	1290512	1- 1M5S-	1- 26514	- 524	r r m
I ysr eOs TNu	1g671						Ar s
I ysr eOs TNu	1g672						Ar s
EemTNu	16471						Ar s
EemTNu	16472						Ar s
GaqOTbTNu	16S71						Ar s
GaqOTbTNu	16S72						Ar s
HOlu TNu	16g71				M1		%
HOlu TNu	16g72				M6		%
poqTNu	11g71				9M		%
poqTNu	11g72				M2		%
peOo	g472	6g4051S	6- 01520	64M0596	64025S9	154S	r r m
peOo	g672	60S2544	6g6S5- 9	66M05- -	66g- 5- 9	1521	r r m
peOo	g072	64SM524	626- 52S	624651-	6- S651M	1542	r r m
Keyr DDo	9- 71						Ar s
Lbaq	2S671	61- 5M0	0S1591	644596	6g- 5gg	6592	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	gM454M	0S052g	64g5S0	6495M4	950S	r r m
Lbaq	2S971	gM0540	0S256g	6- 051g	64g506	9522	r r m
LTbTNu	671				9M		%
v aRobsTNu	2472	1- 022509	1- ggg529	14S24506	1- 06056S	150-	r r m
v aoRaobsb	gg72	12- 65M4	11M4599	122454M	12195 00	1500	r r m
v Clymqbo Nu	M471	12g259-	14g9506	1- S459g	1- - 9591	95SS	r r m
v Clymqbo Nu	Mg71	12- g512	144M5M2	1- SM5gg	1- - 15g-	951M	r r m
v Clymqbo Nu	M671	122M544	14g450g	1- SM512	1- - 151S	95g9	r r m
v Clymqbo Nu	M071	12295g4	14g955S2	129g5S0	1- 2- 599	M5S-	r r m
v Clymqbo Nu	M971	12295gM	141M5g1	120M5S6	1- SM5S6	05g6	r r m
8 bOqyu TNu	1gS71						Ar s
8 bOqyu TNu	1gS72						Ar s
8 TAkbl	6S72	1- 156g	129542	1- - 5- 4	1- 1514	15M1	r r m
PhOsr hOaNs	- 172	244M594	2- g95- S	2g645M4	24g056M	4521	r r m
PODassTNu	- M72	6- 10596	6S6- 560	61005- 9	61965- 1	25S6	r r m
F hOqTNu	1S- 71				9M		%
F hOqTNu	1S- 72				M4		%
3 AaoqTNu	4g71				99		%
3 AaoqTNu	4g72				MS		%
3 blboTNu	9271	1- S521	14M5S0	1- g5g-	1- 9520	05S-	r r m
3 blboTNu	0072	124506	12S561	1465M9	1- S50M	1S594	r r m
3 blboTNu	0972	1- 45- 1	141562	1- g5- 1	1- 05S9	259M	r r m
3 TTAOo	2971	1205- 1	1gS5- -	1- 0500	1- 9540	95- 2	r r m
3 TUbe	1S071	12- 596	1- M5M9	1- g512	1- 25M9	6522	r r m
3 TUbe	1SM71	12150M	14- 5S1	1- 6524	1- - 569	9511	r r m
3 OqTNu	2- 72	1- 6g454-	1- 4965MS	1- g6g51-	1- g6959 2	S562	r r m
3 DaOoDTNu	9671	- SM150M	- 6g452g	- 241522	- - 2M5SM	950g	r r m
3 DaOoDTNu	9971	2Mg652-	- g11590	- 2- 65- M	- 2- 459-	95gM	r r m
3 NifNe	- 471	29gM51g	46- 6522	- - MM5S2	- 6- 1546	2g5SM	r r m
&bemTNu	1gM71				M1		%
&bemTNu	1gM72				Mg		%
&hallTNu	2S- 71	116542	1- - 5- 9	1215 9-	12- 599	65MM	r r m
&hallTNu	2Sg71	11M5MM	1425g4	12M5S-	1- S5g2	950S	r r m
&Tb	1197 1	1145M0	1- M5- M	1- 15M4	129500	M502	r r m
&TaoTNu	4071	11MS50M	1- 9g59-	12M05- 9	12M15- -	05g6	r r m
. eaoTNu	2- 971	1105MM	1- g50-	12g514	12652M	05S0	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
nITboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	g172	1295M4	122520	12654S	12g590	2560	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDbTNu	9M71				99		%
YDDbTNu	9M72				M2		%
ZTbA	6672	120S529	12- 654-	12gM52S	12gg5- S	15- 0	r r m
ZTbAOoTNu	MS71	1105Ig	1- 952S	12g5S9	12659 1	95- 9	r r m
ZTbAOoTNu	M171	1165DS	1- g50M	1245 92	12g500	0561	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA 5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
cPmb A5Amb	20 2	-111.-1	-SS6.4J	4662.-6	4J26.N-	4.00	l l e
c5&b n5y	121 1	240.J0	276.S1	27-.4J	27J.N2	2.J4	l l e
cpwr 5Aq	0- 2	26S.JS	244.24	216.04	24S.67	J.20	l l e
BspAmb	17- 1	124J.1J	11NJ.6-	1100.07	12S-.-2	7.1N	l l e
BspAmb	170 1	12N4.2J	1227.64	11JJ.-J	127-.N4	7.-7	l l e
Br pyPAmb	J 1	24S.-1	270.--	241.-N	27J.NN	S.N0	l l e
BAwb m&a	2SJ 1				J6		%
BAwb m&a	2SJ 2				J-		%
Bpmb A5r	N1 1						ql w
CsOb Amb	1SN 1	267.44	24J.20	2--.77	2-6.S1	2.0N	l l e
CsOb Amb	1S6 1	2--.02	24-.42	240.04	24J.67	2.16	l l e
CsOb Amb	111 1	261.66	2-S.7J	24J.N1	2-7.J-	2.67	l l e
CsPqAmb	47 1	2-664.00	2-111.S1	2466-.2J	2-140.S2	1.JJ	l l e
CsPqAmb	44 1	2-1NJ.JJ	2-S16.S1	242N4.7J	24N7S.17	1.J4	l l e
Cspen5	12 1						ql w
Cspen5	12 2						ql w
ChPmp5r	7- 1						ql w
ChPmp5r	7- 2						ql w
Chpmb Amb	-2 2	241.N6	27J.S-	22S.J-	277.J-	4.N-	l l e
CnesP&	-J 2	24J.6J	247.S7	224.N6	27J.1J	-.70	l l e
CnI l r p	67 2	2620.NS	2-27.6J	276S.2J	2-S7.J7	-.7J	l l e
t ywl pnwAmb	1-6 1						ql w
t ywl pnwAmb	1-6 2						ql w
EpeAmb	164 1						ql w
EpeAmb	164 2						ql w
GsOnP5Amb	16S 1						ql w
GsOnP5Amb	16S 2						ql w
HnPb Amb	16- 1				J4		%
HnPb Amb	16- 2				J6		%
D5OAmb	11- 1				J2		%
D5OAmb	11- 2				J2		%
Dpn5	-4 2	120N0.6-	12647.70	1102N.4-	127N6.4J	4.64	l l e
Dpn5	-6 2	171SS.6N	17SS2.N-	121N6.24	12067.26	7.J7	l l e
Dpn5	-0 2	12627.0J	12222.-1	117J-.J6	12SNS.0-	-.1N	l l e
Kpyl &a5	N7 1						ql w
LrsO	2S6 1	1210.22	1212.7S	12S2.64	121S.02	S.61	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA 5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8sp sb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
LrsO	2S0 1	1221.62	12SJ.-4	11J4.70	12SN.-1	1.17	l l e
LrsO	2SN 1	1210.S-	12SJ.2N	12S1.24	12SJ.1J	S.6-	l l e
LA&mAmb	6 1				JS		%
Msg5rwAmb	24 2	20126.-N	267NN.77	24047.S0	26SN-.JJ	4.6N	l l e
Ms5gs5rwr	- - 2	2-2J.-4	2-0S.- -	277N.N4	240J.64	4.JJ	l l e
MnPyeOr 5mb	J4 1	2-S6.70	27- - .6N	24S7.1J	2421.0-	7.1N	l l e
MnPyeOr 5mb	J- 1	2-S2.J7	2762.S0	27N6.77	2410.11	7.12	l l e
MnPyeOr 5mb	J6 1	24J0.S2	27N7.12	27J4.N-	242-.SS	2.-N	l l e
MnPyeOr 5mb	J0 1	2-14.60	27J-.-4	277S.02	2417.64	7.N0	l l e
MnPyeOr 5mb	JN 1	24N4.42	27-4.16	276S.11	27JJ.-0	7.S0	l l e
urnOybAmb	1-S 1						ql w
urnOybAmb	1-S 2						ql w
uAqkrP	6S 2	262.4S	2-S.66	274.JJ	24J.7-	-.-2	l l e
8hnwlhnpmw	71 2	4J7-.J2	40JN.SN	4446.7J	4026.NS	-.74	l l e
8n&swwAmb	7J 2	12141.-7	11J22.S0	1124-.-S	1106J.0S	7.J0	l l e
RhnOAmb	1S7 1				JS		%
RhnOAmb	1S7 2				J7		%
3qs5OAmb	4- 1				JS		%
3qs5OAmb	4- 2				JS		%
3rP5Amb	N2 1	26-.J0	2-7.J0	2-4.27	2-N.S6	2.66	l l e
3rP5Amb	00 2	261.14	24J.12	272.46	240.-N	-.N2	l l e
3rP5Amb	0N 2	26N.J4	2-6.06	22-.66	2-S.4-	N.J1	l l e
3AAqn5	2N 1	267.64	2-2.S2	2-2.N-	2-6.10	2.-7	l l e
3ARrp	1S0 1	2-N.-J	240.4N	2-7.-S	2-7.1J	2.2S	l l e
3ARrp	1SJ 1	266.16	2-4.4-	2-7.4J	2-N.S7	2.07	l l e
3nOAmb	27 2	26NJ0.NN	2-JS7.1S	244S1.27	2-074.S0	4.NN	l l e
3&m5&Amb	N6 1	62JJ.6N	6S00.NN	-JJJ.71	612-.67	2.-4	l l e
3&m5&Amb	NN 1	671-.S4	-NN2.02	6S1J.-7	6S02.47	7.64	l l e
3mPmp	74 1	- - 7N.N0	4JNS.70	4NJ7.N7	-170.6J	6.N1	l l e
irpeAmb	1-J 1				J4		%
irpeAmb	1-J 2				J7		%
ihsPAmb	2S7 1	27S.24	226.00	227.NN	226.J6	1.4S	l l e
ihsPAmb	2S- 1	242.N2	242.6N	244.JS	247.40	S.-1	l l e
iA5	11N 1	2-2.77	27J.26	277.S0	241.- -	4.S0	l l e
iA&s5Amb	40 1	240-.76	244N.16	27-4.77	242-.J-	2.62	l l e
Ups5Amb	27N 1	274.SS	270.J2	271.2-	274.7J	1.47	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	o l r ps&mp9	aswl sP
Lse:3sb l Pr:Dr:9	3S-	D5w&mb 5r &u sb r :9	8N
CPA5&3sb l Pr:Dr:9	3S-	t Ar8A5:Fsq&mp9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219 1J	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
Vs5sOAmb	- 1 2	2- 7.4-	246.02	22J.66	247.2N	- .S4	l l e
Y&&pe Amb	102 1						ql w
Y&&pe Amb	102 2						ql w
Y&&pe Amb	106 1						ql w
Y&&pe Amb	106 2						ql w
Y&&pAmb	NJ 1				J1		%
Y&&pAmb	NJ 2				J4		%
ZA5q	66 2	24J0.27	242S.J4	2202.06	27J6.JN	4.06	l l e
ZAqn5Amb	JS 1	2- 4.11	247.21	244.J6	240.47	2.70	l l e
ZAqn5Amb	J1 1	27J.1J	271.2-	271.0N	274.S0	1.JS	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b :	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b :	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
i wNu TbTNu	2072	1S2010MM	1S1-2G4S	1S1-0G1	1S1PSG42	SGPP	r r m
i oDu Coy	12171	4P4GPM	400G6	4P0G-	4P-G1P	1GS0	r r m
i eeboTA	0M72	MS1GPP	MS6G10	MSSG00	MS2G04	SGM0	r r m
BJeTNu	1-M71	242MG00	242MG41	242SGn	242-G02	SG1-	r r m
BJeTNu	1-071	24-PGSS	2-4-GMS	2-n1GP6	2-n1G12	1G0P	r r m
Bbeywi TNu	n71	401G2n	4nSG6M	46nGS2	406G0n	2G4n	r r m
BTau NDn	2Sn71				n6		%
BTau NDn	2Sn72				n4		%
BeOu Tbb	P171						Ar a
5 Jqu TNu	1SP71	4PnG6	4PPGM	4nSG22	4PnG1	SG1n	r r m
5 Jqu TNu	1S671	4P2G26	406G01	4n4G2n	4P4G42	1GPM	r r m
5 Jqu TNu	11171	4n-G22	4P-GM2	4P4G64	4P0G1-	1GSn	r r m
5 JvATNu	4-71	4P1-PG02	4nP66GSM	MS11-G2	4n-02G06	2G1P	r r m
5 JvATNu	4471	4PSS6GM0	4nnP1G2S	MS40MG14	4n4P0G64	2G64	r r m
5 JemOo	1271						Ar a
5 JemOo	1272						Ar a
5 hwOeTbb	-M71						Ar a
5 hwOeTbb	-M72						Ar a
5 heOu TNu	M272	4PMGMM	4PMG01	4P-G02	4PMGS6	SG2S	r r m
5 OmJwD	Mh72	4nSG04	4n2GS0	4n6G46	4n-G16	SGMh	r r m
5 Orr be	6-72	M1-6G1S	M1S1GM6	M12-GSM	M12SG24	SG4	r r m
I yar eOaTNu	1M671						Ar a
I yar eOaTNu	1M672						Ar a
EemTNu	16471						Ar a
EemTNu	16472						Ar a
GJqOwbTNu	16S71						Ar a
GJqOwbTNu	16S72						Ar a
HOw TNu	16M71				n6		%
HOw TNu	16M72				nM		%
poqTNu	11M71				n2		%
poqTNu	11M72				nS		%
peOo	M472	26Pn-GP	201PnGP4	20M4PG12	2021SG4M	1G2S	r r m
peOo	M672	26-P2GS0	2Mh0PG6-	264-0GMP	26266GSn	SG0M	r r m
peOo	M072	2MSP1G1P	2MSSSG0n	2M-S0GPP	2M12nG0M	SG6-	r r m
Keyr DDo	P-71						Ar a
LbJq	2S671	2-nSG2-	2-nMG20	2--MGP4	2-0-GGP	1Gn	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaDNu obD8Ju b:	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq:	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b:	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
LbJq	2S071	2-PMSSn	2410G41	2-4PC1P	2-P-0M6	1G4M	r r m
LbJq	2SP71	2-66G26	24S6GS0	2-6MSS0	2-0nC1-	SG0P	r r m
LTDTNu	671				P6		%
g JvobaTNu	2472	M-P0SC0S	M2S20G64	M26SSG0-	M2P--GS2	1C0n	r r m
g JovJobab	MW72	MSM-G04	M1n1CM2	M16SG0S	M1-MG4M	1G41	r r m
g OymqboNu	n471	4MP2G-4	4nSMC04	4PSnG2n	406MC02	-G4P	r r m
g OymqboNu	nM71	462nG0P	4Pn2GP0	4PMPG26	40n-C0S	2G0P	r r m
g OymqboNu	n671	466MG61	4n41G66	4P-2GSM	4P1-C11	2GPn	r r m
g OymqboNu	n071	46P2G M	4n40G01	40-MG P	40PPC0M	2G0-	r r m
g OymqboNu	nP71	466SG S	MS1PGP1	406MG04	4P1MSS2	-GP-	r r m
8 bOqyu TNu	1MS71						A r a
8 bOqyu TNu	1MS72						A r a
8 TAkbw	6S72	M16G0n	M12C1M	M1-G62	M14G2M	SG4P	r r m
I hOarhOaNa	-172	1S2M-G62	n646C14	1S1M1G40	1SS10GS0	-G2M	r r m
I CDJaaTNu	-n72	24n1MG0n	2MP2SC0M6	2M-PSC0M2	2M-02G6	1C0P	r r m
UhOqTNu	1S-71				Pn		%
UhOqTNu	1S-72				nS		%
3 AJoqTNu	4M71				nS		%
3 AJoqTNu	4M72				P0		%
3 bwboTNu	P271	400G6n	MS2G2	4n-G20	4n1GSn	2C04	r r m
3 bwboTNu	0072	M1-G40	M10G0	M440CM	M2MG-	-G2S	r r m
3 bwboTNu	0P72	M24C1-	M11G1	MS6G0	M1-G04	1C0P	r r m
3 TWAOo	2P71	4n6G4P	4n1G S	4n-G26	4n-G6P	SC04	r r m
3 TWbe	1S071	4n6G66	4PnG4	MSSG40	4nMG4n	1G14	r r m
3 TWbe	1Sn71	4n6G0P	4n6G42	4nSGS-	4n4G4P	SG0P	r r m
3 OqTNu	2-72	M-62MC1S	M2M12C01	M-nnPG6-	M--0PGP1	1G4M	r r m
3 DaOoDTNu	P671	1140SGS-	12240GP6	11n-nG4n	11PPMC0n	-G S	r r m
3 DaOoDTNu	PP71	11641C04	1241-G-	12Sn4G2n	12S4nC02	-G22	r r m
3 NvNe	-471	n1P-GP6	n-nMSSS	n6n2G4-	n42-G00	2C01	r r m
&bemTNu	1Mh71				n6		%
&bemTNu	1Mh72				n6		%
&hJwTNu	2S-71	400C01	4n1GS6	401C00	4PSGSM	2GSP	r r m
&hJwTNu	2SM71	4P1GS0	4P4G46	401G S	40PG04	1G4-	r r m
&Tb	11P71	4P4C01	4P6GSP	4P4G6M	4PMC1M	SG10	r r m
&TDJoTNu	4071	404PG61	4P-2GS-	4n2-G4P	4P-4C01	1GP1	r r m
FeJoTNu	2-P71	4MPG24	40nG4M	40-G10	40SG2n	2G2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S6	poaD9Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:24:10	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
VJoJqTNu	M172	MS6G 0	MS6G2P	MS6G M	MS6G -	SGS1	r r m
YDDemTNu	10271						Ar a
YDDemTNu	10272						Ar a
YDDemTNu	10671						Ar a
YDDemTNu	10672						Ar a
YDDeTNu	Pn71				n1		%
YDDeTNu	Pn72				n1		%
ZTbA	6672	4n4MD10	4n24G4P	4nS0G-	4n2MDP6	SG P	r r m
ZTbACoTNu	nS71	460GD2	4PSG41	4nMGM	4P1G 6	2G4	r r m
ZTbACoTNu	n171	44PG2M	40SGM0	464G12	46SGP	2G4n	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
i lNu TbTNu	2072	1g90g590	2SS0M52-	1g9MS5-1	1gg-M514	S561	r r m
i oDu Coy	12171	g-4590	1Sg0590	ggg52S	1S1S56M	9512	r r m
i esboTA	0M72	1SS650M	g9051-	1SS0522	1SSS5-6	151M	r r m
BaeTNu	1-M71	46g2524	M4--56M	MS1659g	MS405Mg	05-6	r r m
BaeTNu	1-071	40--5M0	M40-50-	4gM95g6	MSMM642	05MS	r r m
BbeylITNu	g71	gg1514	1S6g5M9	g0g566	1S1-546	459-	r r m
BTsu NDn	2Sg71				g-		%
BTsu NDn	2Sg72				g4		%
BeOu Tbb	9171						A r s
n aqu TNu	1S971	g-05-2	1S6g52g	gg951M	1SS15Mg	65Mg	r r m
n aqu TNu	1S671	g-0510	1S0g59g	1SS1502	1SS6526	051S	r r m
n aqu TNu	11171	g4S52g	1S09594	gg1569	1SS-56S	65g9	r r m
n alATNu	4-71	1S-S4S501	11g-415M6	1S001-511	11SS-150g	056-	r r m
n alATNu	4471	g6S2M5gg	1Sg4M15-9	1SSMg15S4	1S2S2259S	656g	r r m
n aemOo	1271						A r s
n aemOo	1272						A r s
n hlOeTbb	-M71						A r s
n hlOeTbb	-M72						A r s
n heOu TNu	M272	1S26569	1S10522	gg2510	1S1252	1506	r r m
n OmalD	Mg72	1S19510	1S16519	g9-5g1	1SS65Sg	15g1	r r m
n Or r be	6-72	g90M5S1	1SS9-5-4	g929592	gg2g5S6	15-0	r r m
I ysr eOs TNu	1M671						A r s
I ysr eOs TNu	1M672						A r s
EemTNu	16471						A r s
EemTNu	16472						A r s
GaqOTbTNu	16S71						A r s
GaqOTbTNu	16S72						A r s
HOlu TNu	16M71				g6		%
HOlu TNu	16M72				g9		%
poqTNu	11M71				9g		%
poqTNu	11M72				g1		%
peOo	M472	M290954M	M29Mg544	M1g0S542	M2M6g544	S5gg	r r m
peOo	M672	M26S954M	M1-645gS	MSMMS5-0	M1MS05g1	25S1	r r m
peOo	M072	M2-1-51M	M1g-65gS	M14905M4	M1g125M4	S59S	r r m
Keyr DDo	9-71						A r s
Lbaq	2S671	496256M	M-9956S	4gMg51M	MS0S51-	M5M2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	49- - 50M	M-44512	MS21516	MS665-M	M61S	r r m
Lbaq	2S971	494S526	M-94566	4g0g50S	MS69521	M5M9	r r m
LTbTNu	671				92		%
v aRobsTNu	2472	1S-g94501	1SM16252S	1S1g-S544	1S-6g254M	15M9	r r m
v aoRaobsb	MM72	ggM-514	g99452M	gg965g9	gg4154M	S5M-	r r m
v ClymqboNu	g471	gM26540	11SM25-4	g0gM592	1S124599	95S4	r r m
v ClymqboNu	gM71	g410560	1Sg6-521	ggM6590	1S1125M9	0506	r r m
v ClymqboNu	g671	g-g05- -	1Sg-9511	gg6650S	1S1SS501	0501	r r m
v ClymqboNu	g071	g4g954-	1Sgg451g	g9Mg5-1	1S1105-1	0501	r r m
v ClymqboNu	g971	g42S561	1S9-M52g	1SS0155 2	1S1S95g9	05SS	r r m
8 bOqyu TNu	1MS71						Ar s
8 bOqyu TNu	1MS72						Ar s
8 TAkbl	6S72	gg2524	gg95g4	g9M5S0	gg25S9	S50S	r r m
PhOsr hOaNs	- 172	1g6S155 4	2SM2-5g1	2SS6M5-S	2SS6-542	25-S	r r m
PODassTNu	- g72	MS4M-519	4gg-g50g	MS99152-	MS4245 0-	S5g-	r r m
F hOqTNu	1S-71				90		%
F hOqTNu	1S-72				g1		%
3 AaoqTNu	4M71				90		%
3 AaoqTNu	4M72				gS		%
3 blboTNu	9271	g-9526	1S9M566	g0056S	1SSS5M1	056-	r r m
3 blboTNu	0072	g0-54S	g9059g	1SSS5SS	g9051S	15-M	r r m
3 blboTNu	0972	gg15-M	g94506	gg650-	ggS5gM	S561	r r m
3 TTAOo	2971	g42561	1S66549	g9g5g9	ggg56g	652M	r r m
3 TUbe	1S071	g46590	1S015-S	g9259S	1SSS5-2	654S	r r m
3 TUbe	1Sg71	g2059g	1S965g0	g9-591	ggg5M6	95S0	r r m
3 OqTNu	2-72	1S20S1564	1SM1- - 526	1S260S5MM	1S-MS1591	15-0	r r m
3 DaOoDTNu	9671	2-9SS54g	20-665g9	2401g5gS	2M2gM50g	05-2	r r m
3 DaOoDTNu	9971	2-9S650S	2016M51S	24046564	2M2-g549	6596	r r m
3 NfNe	- 471	19-145g4	22S1M5g1	1g96151S	2SS6-5g9	g526	r r m
&bemTNu	1Mg71				g4		%
&bemTNu	1Mg72				g0		%
&hallTNu	2S-71	g665g1	1SgM540	g9M5M4	1S1M5g0	6594	r r m
&hallTNu	2SM71	g01529	1S96599	g065M6	1S115M0	654M	r r m
&Tb	11971	g4952g	1S94569	gg4516	1SSg5SM	6599	r r m
&DaoTNu	4071	g4M05gg	1S6065SM	1S1M2514	1SSgM5-g	65SM	r r m
. eaoTNu	2-971	gM05- -	111450S	g94522	1S1950M	9526	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
VaoaqTNu	M172	gg45gg	1SS05g-	gg25S9	gg95-	S59M	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDaTNu	9g71				gS		%
YDDaTNu	9g72				g-		%
ZTbA	6672	ggMM50M	1S21M55S6	1SS1- 544	1SS6154-2	15- M	r r m
ZTbAOoTNu	gS71	g4M5gg	1111500	g0154g	1SSg50M	9594	r r m
ZTbAOoTNu	g171	gM-520	111S569	1SS65- 1	1S2- 542	059-	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0e:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTb
i lNu TbTNu	20 2	g- M-150M	g- M715-2	1S2- 04566	gggg65S-	254g	r r m
i oDu Coy	121 1	S5M6	S562	S5-2	S560	2S5g6	r r m
i esboTA	0M2	S570	S54S	S5M0	S54M	2757S	r r m
BaeTNu	17M1	750g	75MS	75Mg	7567	455-	r r m
BaeTNu	170 1	756-	455 0	756S	750-	6501	r r m
Bbey/lTNu	g 1	S527	S51-	S527	S521	1M516	r r m
BTsu NDn	2Sg 1				- 7		%
BTsu NDn	2Sg 2				- -		%
BeOu Tbb	- 1 1						Ar s
n aqu TNu	1S- 1	S5g2	S500	S5-0	S5-M	g54S	r r m
n aqu TNu	1S6 1	75MM	156S	15-2	2572		r r m
n aqu TNu	111 1	S5M2	S5M4	S546	S5M1	- 502	r r m
n alATNu	47 1	46240254 4	MMSgg25-g	4- SM-S561	4g- S1M572	g57g	r r m
n alATNu	44 1	40SS7- 5-1	M4g1M15-2	40g6gM64M	4gg62- 56g	- 564	r r m
n aemOo	12 1						Ar s
n aemOo	12 2						Ar s
n hlOeTbb	7M1						Ar s
n hlOeTbb	7M2						Ar s
n heOu TNu	M2 2	M51-	M544	M52-	M57S	25MM	r r m
n OmalD	Mg 2	2574	2570	257M	2576	S561	r r m
n Or r be	67 2	757S	752g	7574	7571	S5-1	r r m
l ysr eOsTNu	1M6 1						Ar s
l ysr eOsTNu	1M6 2						Ar s
EemTNu	164 1						Ar s
EemTNu	164 2						Ar s
GaqOTbTNu	16S 1						Ar s
GaqOTbTNu	16S 2						Ar s
HOlu TNu	16M1				g1		%
HOlu TNu	16M2				g0		%
poqTNu	11M1				- 4		%
poqTNu	11M2				g1		%
peOo	M4 2	24gS675M0	2M1M-45gM	2401445S6	24g2645 1g	S5-g	r r m
peOo	M6 2	2467- 156g	2M70425-M	24- M145M1	24gM4657M	15M2	r r m
peOo	M0 2	24- 66452g	24046S562	2M204M66g	24g6275M7	1511	r r m
Keyr DDo	- 7 1						Ar s
Lbaq	2S6 1	2566	250g	25-M	2500	757M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADD:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTb
Lbaq	2S0 1	755 4	25M6	2566	250M	g51S	r r m
Lbaq	2S- 1	25g6	2501	2507	25- S	45g1	r r m
LTDTNu	6 1				06		%
v aRobsTNu	24 2	4gg- M452M	4g01425D2	4gg66- 5Mg	4g- - - - 5M2	S57S	r r m
v aoRaobsb	MM2	0527	052-	0547	0571	1541	r r m
v Clymqboi Nu	g4 1	45MS	7501	450S	4571	12514	r r m
v Clymqboi Nu	gM1	4517	756S	7506	75- 7	0511	r r m
v Clymqboi Nu	g6 1	457M	750S	452g	4511	- 5- 1	r r m
v Clymqboi Nu	g0 1	75gg	7561	4522	75g4	05- 0	r r m
v Clymqboi Nu	g- 1	4576	7512	45S-	75- M	165g2	r r m
8 bOqyu TNu	1MS 1						Ar s
8 bOqyu TNu	1MS 2						Ar s
8 TAkbl	6S 2	M5S0	45- 4	4506	45- g	7520	r r m
PhOsr hOeNs	71 2	745g2	0501	12566	1752g		r r m
PODassTNu	7g 2	24- 1g- 54g	24g7S7544	2M224M5S6	24gg1M560	S5- 4	r r m
F hOqTNu	1S7 1				0g		%
F hOqTNu	1S7 2				- M		%
3 AaoqTNu	4M1				- 7		%
3 AaoqTNu	4M2				gS		%
3 blboTNu	- 2 1	M50g	M574	45MM	M527	115g4	r r m
3 blboTNu	00 2	7524	M5Mg	4541	4541	26560	r r m
3 blboTNu	0- 2	M52-	4566	- 564	651g	745MM	r r m
3 TTAOo	2- 1	1S5S4	1M51-	175- 6	175S7	2S54-	r r m
3 TUbe	1S0 1	S516	S522	S516	S51-	1- 5MM	r r m
3 TUbe	1Sg 1	S51-	S51g	S516	S51-	1S576	r r m
3 OqTNu	27 2	4gM2715 1M	MS7- 17540	4g0677517	4g- - g25M-	S5- g	r r m
3 DaOoDTNu	- 6 1	- 51S	655-	65- 0	0522	1S566	r r m
3 DaOoDTNu	- - 1	0512	M5S0	6562	6520	105SS	r r m
3 NfNe	74 1	7152S	17- 2522	- 7502	447527	1- 75g2	r r m
&bemTNu	1Mg 1				gS		%
&bemTNu	1Mg 2				g6		%
&hallTNu	2S7 1	S571	S572	S52g	S571	45g7	r r m
&hallTNu	2SM1	S574	S57S	S577	S572	M5M0	r r m
&Tb	11- 1	S56S	S5Mg	S5M-	S5Mg	15M2	r r m
&DaoTNu	40 1	25g7	15- S	7517	2562	2052g	r r m
. eaoTNu	27- 1	S527	S52S	S527	S522	056g	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD:e9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD8Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTs
VaoaqTNu	M1 2	S57M	S57S	S570	S574	g54M	r r m
YDDbemTNu	102 1						Ar s
YDDbemTNu	102 2						Ar s
YDDbemTNu	106 1						Ar s
YDDbemTNu	106 2						Ar s
YDDbTNu	- g 1				- 6		%
YDDbTNu	- g 2				g4		%
ZTbA	66 2	1S5g1	1S5Mg	1S5- 0	1S50g	15Mg	r r m
ZTbACoTNu	gS 1	S5M4	S5M4	S562	S5M6	- 5- 1	r r m
ZTbACoTNu	g1 1	S5M	S561	S5M	S5Mg	75M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- 8pCTDwe t 8pJ8&JaJ	3- 7 S0	&8bT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

Nwlwe pTpl	Mwl l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
q8be cCbe	2092	4y: .uy	4u2.16	4u1.Sy	4u .02	1.46	t t r
qCTe 5Ch	12191	1y0.21	1u4.6u	1u6. u	1uy.4y	: . 6	t t r
qll pCcd	0 92	2S: .1	2Sy.S0	2S6.SS	2S6.Su	1.44	t t r
Bwlcbe	1: 91	yu.: 1	y1.: 1	y4.yu	y4.u0	: .6y	t t r
Bwlcbe	1: 091	yu.y1	yS. 1	y2.10	y: .u6	4.04	t t r
Bplh8bbe	y91	yu.16	y4. u	1SS.2u	y0.60	2.y	t t r
Bdc e bT%	2Sy91				1S1		E
Bdc e bT%	2Sy92				1S2		E
Bl5e cCp	u191						dt l
- woe cbe	1Su91	uy.21	u1.u4	u2.6S	u4.	4.0y	t t r
- woe cbe	1S691	u .0	0u.6u	04.6S	0y.6u	0.Su	t t r
- woe cbe	11191	1S4.uy	yy.y:	1SS.40	1S1.06	2.60	t t r
- w8lcbe	4: 91	1u: S.12	1001.0u	10 u.yy	10u6.y6	2.12	t t r
- w8lcbe	4491	1u: : .11	10 S.: 4	1uS4.: 2	10y .y2	2.: 4	t t r
- wlr 5C	1291						dt l
- wlr 5C	1292						dt l
- %5lcCp	: 91						dt l
- %5lcCp	: 92						dt l
- %l5e cbe	292	y .S4	y .41	y4. 1	y4.yy	S.40	t t r
- 5r w8T	y92	yu.0	y0.4S	y0. 1	y0.uu	S.00	t t r
- 5t t pl	6: 92	y6.1:	y6.Sy	y: .11	y .11	1.u2	t t r
&hl t l5l cbe	1 691						dt l
&hl t l5l cbe	1 692						dt l
Glr cbe	16491						dt l
Glr cbe	16492						dt l
Hwo58cCbe	16S91						dt l
Hwo58cCbe	16S92						dt l
K58e cbe	16 91				yy		E
K58e cbe	16 92				1S1		E
3Ccbe	11 91				1SS		E
3Ccbe	11 92				1S1		E
35C	492	1yu .0y	1y6 .4S	1y04.: 6	1y0 .1u	S. 2	t t r
35C	692	2S: 2.1u	2S1: .6S	2S2 .1:	2S2: .64	S.46	t t r
35C	092	1y2S.u0	1uy .y2	1y1y.y4	1y12.24	S.04	t t r
klht T5C	u: 91						dt l
Lpwo	2S691	1y4.06	1y2.4u	1y: . u	1y: .6S	S. y	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t &pJ&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- &pCTDwe t &pJ&JaJ	3- 7 S0	&cbT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc&pJmwe pJa	S1 3- 7.o

NwIwe pTpl	MwI l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
Lpwo	2S091	1y2.: 2	1u .01	1uu.Su	1uu.01	1.00	t t r
Lpwo	2Su91	2S .61	2SS.S:	1yy.0u	2S1.u1	1.6:	t t r
LcP%cbe	691				y4		E
MwgCpl cbe	2492	11: S. u	1120.46	112u.u4	112u.y6	S.14	t t r
MwCgwCpl p	92	y: .2S	y4.10	y: .46	y: .61	S. :	t t r
M58hr opCbe	y491	S.10	S.14	S.1u	S.16	12.16	t t r
M58hr opCbe	y 91	S.11	S.1:	S.Sy	S.11	2S.S4	t t r
M58hr opCbe	y691	S.1:	S.1u	S.1u	S.16	1u.26	t t r
M58hr opCbe	y091	S.Sy	S.11	S.Sy	S.1S	14.24	t t r
M58hr opCbe	yu91	S.12	S.12	S.12	S.12	2.16	t t r
mp5ohe cbe	1 S91						dt l
mp5ohe cbe	1 S92						dt l
mcdf p8	6S92	1Sy.:	1S0.20	1S6.y2	1S0.u	1.22	t t r
N%5l t %5lbl	: 192	9S.: 2	91u.0	92: .4	914.10		t t r
N5TWl cbe	: y92	1u6y.0y	1u 4.: u	1u: S.20	1u 1.4u	1.Su	t t r
R%5ocbe	1S: 91				yy		E
R%5ocbe	1S: 92				1S2		E
DdwCocbe	4 91				yu		E
DdwCocbe	4 92				yy		E
Dp&pCcbe	u291	2Sy.11	21S.2y	2S . :	2Su.: 1	1.1y	t t r
Dp&pCcbe	0092	2S: .SS	214.yy	2S4.01	2S0. 0	: .1:	t t r
Dp&pCcbe	0u92	21: .64	21y.26	210.: u	216.06	1.: 2	t t r
Dc&d5C	2u91	S.4	S.1y	S.2:	S.2y	4u.yS	t t r
Dc&vpl	1S091	4y.u6	46.6y	40.: 0	40.y0	: .4u	t t r
Dc&vpl	1Sy91	4y.4S	46.0u	40.:	40.u4	2.uy	t t r
D5ocbe	2: 92	1y6y. u	1y S.Su	1y42.60	1y 4.11	S.01	t t r
DTT5CTbe	u691	S.44	S.21	S.24	S.: S	42.10	t t r
DTT5CTbe	uu91	S.: 1	S.2	S.24	S.20	14. 1	t t r
Db3%l	: 491	106.4y	94: S.SS	91 2.01	91: .41		t t r
Aplr cbe	1 y91				1S1		E
Aplr cbe	1 y92				1S2		E
A%w8bbe	2S: 91	2S6.6u	2S: .10	1y0.y:	2S2. y	2.10	t t r
A%w8bbe	2S 91	21: .62	21S.1	211.yS	211.uy	S.u2	t t r
AcC	11u91	S.12	S.S:	S.S1	S.S	1Su.y	t t r
AcTWcbe	4091	S.Su	S.S	S.S4	S.S	: y.02	t t r
UlwCcbe	2: u91	S.S1	S.S1	S.S1	S.S1	: .SS	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r pIJa	LB1264S0	n t pIwT5IJa	swI Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3C1 TIbe CpTJmwe pJa	Nu
- 8pCTJDwe t 8pJ8&JaJ	3- 7 S0	&c8bT5CJFwdT5IJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

NwIwe pTpI	MwI I	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
7wCwodbe	192	y6.4y	y0.1:	y0.6	y0.Sy	S.6S	t t r
YTTpIr dbe	10291						dt I
YTTpIr dbe	10292						dt I
YTTpIr dbe	10691						dt I
YTTpIr dbe	10692						dt I
YTTrdbe	uy91				yu		E
YTTrdbe	uy92				1S2		E
ZdCd	6692	1yS. 2	1uy.y	1u6.6S	1uy.S2	1.12	t t r
Zdd5Cdbe	yS91	S.S2	S.S2	S.S1	S.S2	41.1:	t t r
Zdd5Cdbe	y191	S.Su	S.Su	S.S0	S.S0	.S2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t 8p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- 8pCT9Dwe t 8p9&9J9	3- BS07	&8bT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l Jl0Jla	&wTwUd8p9mwe p9J	S16- - B. Fo

Nwlwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMf9- 5CdF	- 5Cdv D&	RCdT
q8be cCbe	20:2	SF22	SF56	:SF16	SF54	40aFua	t t r
qCTe 5Ch	121:1	SF12	SF11	SF16	SF1	21F06	t t r
qll pCcd	07:2	SF5u	SF56	SF5	SF57	40Fau	t t r
Bwlcbe	1 7:1	SF51	SF5	SF5	SF52	66F67	t t r
Bwlcbe	1 0:1	SF52	SF51	SF5	SF52	77F7S	t t r
Bplh8bbe	a:1	SF5	SF5	SF52	SF5	1aFu	t t r
Bdc e bT%	2Sa:1				1S2		E
Bdc e bT%	2Sa:2				1SS		E
Bl5e cCp	u1:1						dt l
- woe cbe	1Su:1	:SF51	SF1u	SF11	SF5a	1S4F0u	t t r
- woe cbe	1S6:1	:SF66	:7F42	: F5S	: F5		t t r
- woe cbe	111:1	SF52	:SF57	:SF51	:SF51		t t r
- w8lcbe	4 :1	:2Fa2	:SF S	:2Fa7	:2F56		t t r
- w8lcbe	44:1	1 F1a	17F0a	14Fa7	14F64	aF5a	t t r
- wlr 5C	12:1						dt l
- wlr 5C	12:2						dt l
- %5lcCp	7:1						dt l
- %5lcCp	7:2						dt l
- %5e cbe	72:2	:SF51	:SF52	:SF51	:SF52		t t r
- 5r w8T	7a:2	SF52	SF5S	SF52	SF51	6uF1S	t t r
- 5t t pl	6 :2	SF5u	SF56	SF50	SF50	14F47	t t r
&hl t l5l cbe	176:1						dt l
&hl t l5l cbe	176:2						dt l
. lr cbe	164:1						dt l
. lr cbe	164:2						dt l
Gwo58bCcbe	16S:1						dt l
Gwo58bCcbe	16S:2						dt l
H58e cbe	167:1				1SS		E
H58e cbe	167:2				1SS		E
3Ccbe	117:1				aa		E
3Ccbe	117:2				1SS		E
35C	74:2	1F61	1F2	1F00	1F7	1uF2	t t r
35C	76:2	SF74	SF u	SF 0	SF4	21F07	t t r
35C	70:2	:1F56	:SF60	:SF71	:SF04		t t r
KIht T5C	u :1						dt l
Lpwo	2S6:1	SF50	SF57	SF50	SF56	10F0	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129I J10J1a	&wTwUc&p9mwe p9J	S16- - B. Fo

NwIwe pTpI	y wl I	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
Lpwo	2S0:1	SF5 7	SF5 4	SF5 7	SF5 7	17F6u	t t r
Lpwo	2Su:1	SF5 0	SF5 0	SF5 7	SF5 6	10Fu1	t t r
LcT%cbe	6:1				a		E
y wMCpI cbe	24:2	SF17	SF 1	SF u	SF2u	4SFu6	t t r
y wCMwCpI p	77:2	SF5S	SF5 1	SF5 2	SF5 1	12 F21	t t r
y 58hr opCbe	a4:1	SF5 7	SF5	SF5 1	SF5	61Fu	t t r
y 58hr opCbe	a7:1	SF5 2	SF5S	SF5S	SF5 1	16aF 6	t t r
y 58hr opCbe	a6:1	SF5 2	SF5 2	SF5 2	SF5 2	uF2S	t t r
y 58hr opCbe	a0:1	SF5 2	SF5S	SF5 2	SF5 1	117Fu1	t t r
y 58hr opCbe	au:1	SF5 1	SF5 1	SF5 1	SF5 1	44F60	t t r
mp5ohe cbe	17S:1						dt I
mp5ohe cbe	17S:2						dt I
mcdkp8	6S:2	SF5 2	SF5 2	:SF5 1	SF5 1	17SFa7	t t r
N%5I t %5IbI	1:2	:21Fau	26F0	:2SF60	:7F 1		t t r
N5TwI cbe	a:2	uF66	4Fu	6FaS	6FuS	2uF2	t t r
v %5ocbe	1S :1				1S1		E
v %5ocbe	1S :2				aa		E
DdwCocbe	47:1				aa		E
DdwCocbe	47:2				a0		E
Dp&pCcbe	u2:1	:SF60	SF5 1	:SF 6	:SF 4		t t r
Dp&pCcbe	00:2	SF04	:SF u	:SF u	:SF5 1		t t r
Dp&pCcbe	0u:2	SF16	SFu2	SF62	SF7	64FS2	t t r
Dc&d5C	2u:1	SF5 1	SF5 4	:SF5 0	:SF5 1		t t r
Dc&gpI	1S0:1	SF5 2	SF5 4	SF5 4	SF5	27F67	t t r
Dc&gpI	1Sa:1	SF5 4	SF5 2	SF5 4	SF5	7Fu4	t t r
D5ocbe	2 :2	24F S	21F4	22F60	22FuS	6F 2	t t r
DTI5CTbe	u6:1	SF5 7	SF5u	:SF5 1	SF5 4	1S0F10	t t r
DTI5CTbe	uu:1	SF5 7	SF5 1	SF5 1	SF5 2	124Faa	t t r
Db&bI	4:1	:4uuF0	:1a1F62	:26 Fa7	: 14F00		t t r
ApIr cbe	17a:1				1SS		E
ApIr cbe	17a:2				1SS		E
A%w&bbe	2S :1	SF5a	SF5 0	SF5u	SF5u	16F7	t t r
A%w&bbe	2S7:1	SF5u	SF5u	SF5u	SF5u	FaS	t t r
AcC	11u:1	:SF5	:SF5	SF5S	:SF5 2		t t r
AcTwCcbe	40:1	:SF1S	:SF5	SF5S	:SF5 4		t t r
RIwCcbe	2 u:1	SF5S	SF5S	SF5S	SF5S	26aF 2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129I J10J1a	&wTwUc&p9mwe p9J	S16- - B. Fo

NwIwe pTpI	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
VwCwodbe	71:2	SF5	:SF51	SF5S	SF51	S0Fu4	t t r
YTTpIr dbe	102:1						dt l
YTTpIr dbe	102:2						dt l
YTTpIr dbe	106:1						dt l
YTTpIr dbe	106:2						dt l
YTTrdbe	ua:1				aa		E
YTTrdbe	ua:2				1SS		E
ZdCd	66:2	SF57	SF50	SF27	SF12	a1F64	t t r
Zdcd5Cdbe	aS:1	SF5S	SF51	SF5S	SF51	01Fu1	t t r
Zdcd5Cdbe	a1:1	:SF52	:SF52	:SF51	:SF52		t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aaa	3-7 S0:	35PTDer 5lTabrlas	um
-Nt5Ta7lrtNla&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M24SCm4	Mm16MCm0	Mm21:C49	M02SmC01	1C0:	ttp
5Tcn5y	121J1	1C4:	1C90	1C24	1C9:	0C02	ttp
DPl5cq	0:J2	SCm	SC69	SCm	SC6S	:CS6	ttp
BlDcer	19:J1	1C4m	1C9:	1C4S	1C41	4C6	ttp
BlDcer	190J1	1C42	1C9S	1C94	1C96	4C41	ttp
BlDyNter	MJ1	SC9S	SC92	SC2m	SC9S	6C40	ttp
BcPreTn	2SMJ1				M9		%
BcPreTn	2SMJ2				M4		%
BDnrc5l	m1J1						qtP
-lOrcer	1SmJ1	10C10	14C06	14Cm4	1:CM	mC06	ttp
-lOrcer	1S6J1	J1C4S	J1Cmm	J:CS9	J2C00		ttp
-lOrcer	111J1	SC6	SC6M	SC4M	SCm	1mC2M	ttp
-lNqcer	49J1	M2m4MC6S	M9m4MC69	M92:C46	M4SSmC29	1C92	ttp
-lNqcer	44J1	M2M06CM1	M1M9CS9	M2mMmC20	M26SMC4S	SC62	ttp
-lDpn5	12J1						qtP
-lDpn5	12J2						qtP
-hNDc5l	9:J1						qtP
-hNDc5l	9:J2						qtP
-hDnrcer	:2J2	1MC4S	1MC19	1MCDS	1MC41	1C4m	ttp
-npl NT	:MJ2	1C2S	1C22	1C1m	1C2S	1C66	ttp
-nttlD	69J2	0C24	0C4S	0C12	0C2:	1CM6	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GlOnNscer	16SJ1						qtP
GlOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				Mm		%
35Ocer	11:J1				M2		%
35Ocer	11:J2				M9		%
3Dn5	:4J2	1SSM04C10	MMSm4C94	MMS21CS0	MM6M9C1M	1C11	ttp
3Dn5	:6J2	MmM2mC64	1SS2MSCCm	Mm6m2CS9	MM9SSC4M	SCm0	ttp
3Dn5	:0J2	1S1264C42	1S9SS9C9m	1S10:SCMS	1S2SS6C29	SCmm	ttp
KDytTn5	m9J1						qtP
LlIO	2S6J1	4C9:	4C61	4Cm0	4C61	:C64	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 S0:	35PTDer 5lTabl r las	um
-Nl5Ta7lrtNla8&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcr la qdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablr las	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LllO	2S0J1	4C14	4C24	4C2S	4C1M	1C22	ttp
LllO	2SmJ1	4C29	4C9M	4CCS	4C90	9CS4	ttp
LdThcer	6J1				mm		%
glv5lPcer	24J2	M4020CM9	M62S2C62	M S::C9M	M 92mC6:	SC01	ttp
gl5vl5lPl	::J2	0C9m	0C61	0C62	0CC9	1C01	ttp
gnNypCl5er	M4J1	1466C9S	140mCM2	14MSC10	140mC6M	SC09	ttp
gnNypCl5er	M J1	10M4CCM	101MCCM	10MCCC9	100SCCS	2CCS	ttp
gnNypCl5er	M6J1	1061CCM	10S2CMm	10:4CM9	109MCm4	1Cm4	ttp
gnNypCl5er	M0J1	10mmC62	10:1CC1	100mCm	1002CC0	1CSm	ttp
gnNypCl5er	MmJ1	1mSMCM1	1069C6M	10MMC9m	10MSCCM	1C9:	ttp
blnOyr cer	1:SJ1						qtP
blnOyr cer	1:SJ2						qtP
bcqklN	6SJ2	:CM6	:Cm1	6CSm	:CM	2C2:	ttp
uhnPthnDeP	91J2	M0M6SCCm	MMSS2C69	M00:4CCS	Mm29MCCS	SC6m	ttp
unTPPcer	9MJ2	M 0M9C96	M4m26C9:	M611mCm	M:0MCC2	SCCS	ttp
UhnOcer	1S9J1				M1		%
UhnOcer	1S9J2				M9		%
7ql5Ocer	4:J1				M2		%
7ql5Ocer	4:J2				M1		%
7lNl5cer	m2J1	JSCS6	JSC24	JSCSM	JSC19		ttp
7lNl5cer	00J2	JSC9m	JSC9m	JSC9m	JSC9m		ttp
7lNl5cer	0mJ2	JSC9m	JSC61	SC10	JSC2m		ttp
7dqn5	2mJ1	2C92	2C10	2C2S	2C29	9C0:	ttp
7dRlD	1S0J1	SCS2	SCS2	SCS9	SCS2	10C00	ttp
7dRlD	1SMJ1	SCS2	SCS4	SCS2	SCS2	41CS0	ttp
7nOcer	29J2	1S260MC6:	1S2141C4M	1S1006C6:	1S21MMC26	SC44	ttp
7TDn5Tcer	m6J1	91CM1	9SCmS	91CM9	91C:	2CS:	ttp
7TDn5Tcer	mmJ1	92C60	91C4m	91C2	91CmM	2C11	ttp
7eNeD	94J1	04::C4M	04S61C4:	04MS:C42	04:S6C4:	SC0	ttp
AlDpcer	1:MJ1				M6		%
AlDpcer	1:MJ2				Mm		%
AhlNter	2S9J1	SC24	SC24	SC1M	SC22	12CS1	ttp
AhlNter	2S:J1	SC1m	SC2:	SC2S	SC21	10C90	ttp
Ac5	11mJ1	SC94	SC29	SC41	SC99	2mC4M	ttp
AcT5cer	40J1	1MS6C2:	1M62C66	1M62C24	1M49CC1	1C60	ttp
FD5cer	29mJ1	SCS9	SCS2	SCS9	SCS9	19C91	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDTnDas	wlP8lN
LIpa7lrtNa&aa	3-7 S0:	35PTDer 5lTabl r las	um
-Nt5Ta7lrtNa&aa	3-7 S0:	&dNTn5alqTnDas	1
&lTiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	SC24	SC1:	SC1m	SC1M	2:CS0	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M9		%
YTDcer	mMJ2				M4		%
Zc5q	66J2	1SC4m	1SCM2	1SCS1	1SC40	4C96	ttp
ZcDqn5cer	M6J1	SCS2	SCS1	SCS9	SCS2	09C91	ttp
ZcDqn5cer	M1J1	SCS4	SCS2	SCS9	SCS9	26CGM	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otIDTnDas	wIP8IN
LIpa7IrtNa&aa	3-7 BS0:	35PTDer 5ITabIrIas	um
-N5TA7IrtNa&aa	3-7 BS0:	&dNTn5aIqTnDas	1
&ITaiaAcrIaqdedDOas	2S29JS0J12a19s29s19	&IT.dNabIrIas	S1m3-7BCC

ulDrITD	gIPP	-n5UIt1	-n5UIt2	-n5UIt9	RvGan5qC	-n5qU7&	F5dP
Ner c5cer	20J2	M644M90	M10mCS0	M4120C4M	M2:1C6:	1C22	ttp
5Tcn5y	121J1	2SC9:	1M96	2SC24	1MCMm	2C01	ttp
DPI5cq	0:J2	21CS0	2SCCM	2SCCM	2SC0m	SC00	ttp
BIDcer	19:J1	1MCM	1MCC6	2SC1:	1MCM	SCMm	ttp
BIDcer	190J1	21CS9	2SC1M	1MC09	2SC9:	9CS9	ttp
BIDyNer	MJ1	1MC6	1MC12	1MCCM	1MC9	2CS1	ttp
BcPreTn	2SMJ1				M4		%
BcPreTn	2SMJ2				M6		%
BDnrc5I	m1J1						qtP
-IOrcer	1SmJ1	9SC6m	2MC69	9SC91	9SC21	1C06	ttp
-IOrcer	1S6J1	12C12	1SC04	12CS1	11C66	6CSm	ttp
-IOrcer	111J1	2SC1S	1mCM4	1MCM	1MC4	2CM0	ttp
-INqcer	49J1	M0024C0S	M9S42C49	M9S2SC09	M4:M6CS2	2C06	ttp
-INqcer	44J1	M40:4C6m	M6mMCC10	M99:0C9m	M9SS9CSm	2C1S	ttp
-IDpn5	12J1						qtP
-IDpn5	12J2						qtP
-hNDc5I	9:J1						qtP
-hNDc5I	9:J2						qtP
-hDnrcer	:2J2	9mC1m	90C04	90CC0	90CM9	SC0	ttp
-npINT	:MJ2	2SC24	2SC9:	1MC6m	2SCSM	1CCM	ttp
-nttID	69J2	26C1S	2:C0S	2:C9m	2:CC6	1C4S	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GIOnNscer	16SJ1						qtP
GIOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				1SS		%
35Ocer	11:J1				M2		%
35Ocer	11:J2				M		%
3Dn5	:4J2	1SS261C06	MM69SC91	1SS41MCC2	1SS1S9CM6	SC42	ttp
3Dn5	:6J2	1SS2m2C46	1SS40MC19	1SS62:CC:	1SS462C44	SC10	ttp
3Dn5	:0J2	1SS4m6C29	1SS261CC0	MM MC9M	1SS11:C19	SC46	ttp
KDytTn5	m9J1						qtP
LIIO	2S6J1	26CCM	24CCM	2:C26	2:C6:	9C0M	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aaa	3-7 BS0:	35PTDer 5lTabolrlas	um
-Nl5Ta7lrtNla&aaa	3-7 BS0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s29s19	&lT.dNablrlas	S1m3-7BCC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LllO	2S0J1	2:0Vm	24G46	24Gm1	2:GSm	9Clm	ttp
LllO	2SmJ1	2:0M4	24G46	2:GSM	2:C16	20M	ttp
LdTher	6J1				m0		%
glv5lPer	24J2	M4049G91	M966C6	M4m6Gm4	M4MmmGVS	SG9:	ttp
gl5vl5lPl	::J2	26C1	26C19	2:G20	2:0V0	2G4:	ttp
gnNypCl5er	M4J1	14M0G9	1:1MG24	1:S1G92	1:S6C16	SG06	ttp
gnNypCl5er	MJ1	10m6G24	1000Clm	1062G2M	100:G24	SG6m	ttp
gnNypCl5er	M6J1	100SG66	1096Gm0	10mmGV9	106:G4M	1CS	ttp
gnNypCl5er	M0J1	10m4G6S	1001GVm	1mS0C1:	10m0GV1	1GSS	ttp
gnNypCl5er	MmJ1	1m11GS6	1040G69	1m12Gm4	10MSC1	2GS0	ttp
blnOyrer	1:SJ1						qtP
blnOyrer	1:SJ2						qtP
bcqklN	6SJ2	240VM	2:G2m	2:GS:	2:C1	SG6S	ttp
uhnPthnDeP	91J2	Mm24GmS	M0020G12	M14mG49	M0199G4:	1Gm2	ttp
unTPPer	9MJ2	Mm0M4Gm9	M9SSSGm1	M6S:1G0:	MM4MG19	9GS2	ttp
UhnOer	1S9J1				MS		%
UhnOer	1S9J2				M9		%
7ql5Oer	4:J1				M4		%
7ql5Oer	4:J2				M9		%
7lN5er	m2J1	1MG96	10G62	10G0:	1mG24	:G9S	ttp
7lN5er	00J2	16G2M	21G9M	2SC1	1MG4S	14GS6	ttp
7lN5er	0mJ2	21G4M	1MGS:	2SGS6	2SG2S	6GS0	ttp
7dqn5	2mJ1	2CS	2GSm	2G29	2G20	MG9m	ttp
7dRD	1S0J1	1MGS1	10G66	10Gmm	1mGlm	90Vm	ttp
7dRD	1SMJ1	1mGm4	10G09	1mG99	1mG9S	9GS4	ttp
7nOer	29J2	1SSmS:Gm9	1SS9SmG09	1SS6:9C16	1SS:mMG24	SG2:	ttp
7TDn5Ter	m6J1	99G22	910VS	99G2S	92G00	2G91	ttp
7TDn5Ter	mmJ1	92G24	91G6M	92G06	92G29	1G60	ttp
7eNeD	94J1	0MS44G2m	029mmGDS	02:1SG41	04640GmS	:GlS	ttp
AlDper	1:MJ1				M0		%
AlDper	1:MJ2				Mm		%
AhlNter	2S9J1	21G49	2SG1:	2SGm	2SG02	9G1:	ttp
AhlNter	2S:J1	21G90	1MGV4	2SC4	2SG62	9G4M	ttp
Ac5	11mJ1	SG91	SG99	SG92	SG92	2G2:	ttp
AcT5er	40J1	2S16G2m	1MSG21	2SS9G16	1MmMGm	1G06	ttp
FD5er	29mJ1	SGS9	SGS2	SGS9	SGS9	mGS6	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 BS0:	35PTDer 5lTabl r las	um
-Nl5TA7lrtNla8&aaa	3-7 BS0:	&dNTn5alqTnDas	1
&lTiaAcr la qdedDOas	2S29JS0J12a19s29s19	&lT.dNlabl r las	S1m3-7BCC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvCa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	1MCDS	1MC26	1MCDm	1MCm	1C4:	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M4		%
YTDcer	mMJ2				M0		%
Zc5q	66J2	2MC0	2MC24	2mCD4	2MC1m	1C49	ttp
ZcDqn5cer	M6J1	SCS2	SCS9	SCS9	SCS9	26Cm9	ttp
ZcDqn5cer	M1J1	SCS9	SCSS	SCSS	SCS1	146Cm	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb cOcmb	20 2	J21J. F46	JSJ11F74	JS612F2S	J1S. 4F77	1FN1	DDe
q CTb 5Ch	121 1	J7NF41	4. 0FJ4	4. 6F. .	J1SF. N	4F6J	DDe
q pwr Ccd	0J 2	J27F0J	J20F0J	J1JF17	J22F21	1F24	DDe
Bspcmb	17J 1	20JSFNJ	2JN0FSJ	2J71F4N	2627F17	4F7J	DDe
Bspcmb	170 1	26. SF10	2J17FJ4	2JSJF41	2J6. F01	4FS6	DDe
Br phPmb	. 1	JSJF4J	4NJF66	4NNF77	4. 7F1J	2F1N	DDe
Bcwb mT%	2S. 1				. S		E
Bcwb mT%	2S. 2				. 1		E
Bp5b cOr	N1 1						dDw
3 sob cmb	1SN 1	JJ1F1J	J17F. 7	J16FN0	J20F72	7F. 2	DDe
3 sob cmb	1S6 1	JJSF6S	JS6F4J	JS2F77	J1. F0.	JF1J	DDe
3 sob cmb	111 1	JJ7FS2	J1JF1J	J1NFNS	J2NF. .	7F. J	DDe
3 sPdcmb	47 1	26. 4S7F27	2761. 2F41	24466. F67	2JSSNNF42	6F. S	DDe
3 sPdcmb	44 1	2612J0F27	2741. SFNS	27. 0SSF7N	24JS4. F40	JFN4	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %F5pcOr	7J 1						dDw
3 %F5pcOr	7J 2						dDw
3 %p5b cmb	J2 2	4. 0F20	4NNF62	4NJF4S	4. SF47	1F2J	DDe
3 5esFT	J. 2	4NNF44	4. 2F0.	40. F16	4N6FNS	1F47	DDe
3 5DDr p	67 2	J7S4FNJ	J24SF2N	JS6NF77	J2S4F4.	2F7J	DDe
&hwDp5wcmb	1J6 1						dDw
&hwDp5wcmb	1J6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PdOcmb	16S 1						dDw
Hso5PdOcmb	16S 2						dDw
K5Pb cmb	16J 1				. 6		E
K5Pb cmb	16J 2				. N		E
tCocmb	11J 1				. S		E
tCocmb	11J 2				. 1		E
tp5C	J4 2	12667SF7S	120. N4F1S	120S6JFN2	120226F04	SFJ4	DDe
tp5C	J6 2	12N764FNS	120161FJ2	126N16F04	120440F6N	SF64	DDe
tp5C	J0 2	126447F01	12. 1. 1F06	12J0SJF16	120117FJ4	1F4J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	20SNFN7	2JSJF46	2JSSF76	2J01FJJ	4F62	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8spsb r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	20JSF26	2J70F77	24N1F0S	2JN. F06	JF40	DDe
Lr so	2SN 1	2011F44	2J42F66	2J20FN.	2J. 4FSS	7F. 7	DDe
LdP%cmb	6 1				N4		E
y sMCr wcmb	24 2	2J0N14F26	2JS021FN2	2J4267FJ4	2J4266FJ4	1F7.	DDe
y sCMsCr wr	JJ 2	J2S0F1S	JS26F0S	JSNNF. S	J1S0FJ0	1F0.	DDe
y 5Pheor Cmb	. 4 1	J47. F06	JS. 6F0N	4. S6FJ6	J140F0S	JF2J	DDe
y 5Pheor Cmb	. J 1	J72NF41	J177FS6	4. SNFJ6	J127F74	4F1S	DDe
y 5Pheor Cmb	. 6 1	J2N6F64	J111F. 0	4. . 0F7.	J172FSS	2FN4	DDe
y 5Pheor Cmb	. 0 1	J4S2F11	JS. . F7J	JSSJFJ7	J16. FSS	4FS1	DDe
y 5Pheor Cmb	. N 1	J721FJS	J171F67	4. NNF1.	J140F11	7F2J	DDe
ur 5ohb cmb	1JS 1						dDw
ur 5ohb cmb	1JS 2						dDw
ucdf r P	6S 2	JS0FJ2	JSSF6S	4. 7F02	JSSF61	1F7N	DDe
8 %5wD%5pmw	71 2	1SS. 1F2.	1S2. . FSS	1S2N2FS6	1S224F12	1F17	DDe
8 5Tswwcmb	7. 2	1261. . FJS	126276F61	126JS1F1.	126712F44	SF17	DDe
v %5ocmb	1S7 1				NN		E
v %5ocmb	1S7 2				N.		E
I dsCocmb	4J 1				. 2		E
I dsCocmb	4J 2				. 1		E
I r P Cmb	N2 1	J24FSS	JS6FS7	4NJF. 0	JSJF77	7F00	DDe
I r P Cmb	00 2	4JJF74	J2SFJ.	JS1FJ7	4. 2F4N	6FN1	DDe
I r P Cmb	0N 2	J2JFJ2	J11FN4	J74F0.	J24FSJ	2F2S	DDe
I dcd5C	2N 1	J6JFS.	4. 0FN1	J10FSN	J26F66	6FJN	DDe
I dgr p	1S0 1	J72F7.	JS2F77	JS1F6.	J12F14	7F47	DDe
I dgr p	1S. 1	J7NFJJ	4. 1FJ.	JS7FN6	J11F77	4F06	DDe
I 5ocmb	27 2	2JN4S6F1.	2J2. 61FJ6	2J262JF6J	2J4664F40	1F20	DDe
I Tp5CTcmb	N6 1	17JS. F6J	126S4F40	12147F7S	120J2F40	JF4J	DDe
I Tp5CTcmb	NN 1	17217F4N	12404F17	12S7SF26	12J02F62	4F0J	DDe
I mPVmp	74 1	1117SF14	NN44F42	. J44FJS	. N7. F6.	11F. S	DDe
Ar pecmb	1J. 1				. 6		E
Ar pecmb	1J. 2				. 6		E
A%sPbmb	2S7 1	JJSF14	J12F27	JS7F60	J22FS1	4F04	DDe
A%sPbmb	2SJ 1	J47F44	J12F2S	J14F1N	J27F20	7F74	DDe
AdC	11N 1	J71FJ0	4. JF07	JS1F10	JS. F4.	7F0.	DDe
AdSCmb	40 1	J4S4FN.	4N42F70	JS01F44	J1S6F24	JFJ4	DDe
RpsCmb	27N 1	J2. F7.	JS6F74	J1SF4.	J1JF41	2F7N	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	J1 2	J20FN7	J16FS.	J2SF41	J21F44	1F14	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N. 1				. 7		E
YTTpomb	N. 2				. 4		E
ZdCd	66 2	JS61F01	4. . JF. 2	4. 40FSJ	JSS1FJ6	1F1J	DDe
Zqpd5Comb	. S 1	J71F4N	JSSF. J	4N7F0S	JSJF7N	4F0.	DDe
Zqpd5Comb	. 1 1	J10F02	4. JF02	4N2F02	4. NF02	7FJJ	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	2072	9.y0	2.y4	1.49	4.y-	96.99	I I b
c 5&mn5h	12171	S.19	S.21	S.22	S.21	y.y1	I I b
c rse5Aq	0y72	S.S8	S.S2	S.S4	S.Sy	y0.y2	I I b
BarAum	1- y71	S.2S	S.18	S.2S	S.2S	y.2y	I I b
BarAum	1- 071	S.1y	S.16	S.21	S.10	18.66	I I b
BerhlIAum	971	S.S0	S.S0	S.S6	S.S0	y.- 8	I I b
BAsmu&%	2S971				1S1		E
BAsmu&%	2S972				98		E
BrnmA5e	8171						ql s
3 aOmAum	1S871	S.20	S.S6	S.S8	S.14	81.- 8	I I b
3 aOmAum	1S671	74.00	72.66	72.y1	7- .- 1		I I b
3 aOmAum	11171	S.Sy	S.S2	S.S8	S.Sy	61.69	I I b
3 alqAum	4- 71	22.24	2S.41	19.46	2S.01	6.82	I I b
3 alqAum	4471	86.98	6y.48	y6.6S	69.68	22.41	I I b
3 arbn5	1271						ql s
3 arbn5	1272						ql s
3 %nrA5e	- y71						ql s
3 %nrA5e	- y72						ql s
3 %nmAum	y272	S.S4	S.S-	7S.S-	S.S1	29- .y2	I I b
3 nbal&	y972	S.Sy	S.SS	S.S1	S.S2	142.61	I I b
3 nI I er	6- 72	S.92	S.yS	S.4S	S.6S	4y.60	I I b
t hsI rnsAum	1y671						ql s
t hsI rnsAum	1y672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
GaOnlA5Aum	16S71						ql s
GaOnlA5Aum	16S72						ql s
HnlmAum	16y71				1SS		E
HnlmAum	16y72				1S1		E
D5OAum	11y71				1SS		E
D5OAum	11y72				1SS		E
Dn5	y472	1- .SS	y.20	6.18	8.1y	y1.84	I I b
Dn5	y672	12.88	- .- S	- .SS	6.4S	80.86	I I b
Dn5	y072	11.- -	y.2-	6.- S	0.62	42.09	I I b
Krhl &n5	8- 71						ql s
LeaO	2S671	S.4y	S.- 4	S.26	S.- y	20.9y	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
LeaO	2S071	S.- -	S.- 4	S.29	S.- 2	8.26	I I b
LeaO	2S871	S.- 6	S.- 1	S.28	S.- 2	12.26	I I b
LA%Aum	671				9S		E
Mag5esAum	2472	- 2.06	4.- 9	y.20	14.14	114.S9	I I b
Ma5ga5ese	yy72	S.- y	S.11	S.1y	S.2S	6- .96	I I b
MnlhbOe5um	9471	S.88	S.66	S.y6	S.0S	2- .62	I I b
MnlhbOe5um	9y71	S.86	S.04	S.68	S.06	12.S0	I I b
MnlhbOe5um	9671	S.9-	S.6y	S.60	S.0y	2S.46	I I b
MnlhbOe5um	9071	S.89	S.6-	S.69	S.04	18.01	I I b
MnlhbOe5um	9871	S.8S	S.60	S.82	S.06	1S.92	I I b
NenOhmAum	1yS71						ql s
NenOhmAum	1yS72						ql s
NAqkel	6S72	S.S4	S.S4	S.S4	S.S4	6.S8	I I b
P%nsI %nrus	- 172	7- 8.18	714.68	7- S.y9	720.81		I I b
Pn&assAum	- 972	66.84	yS.42	y1.68	y6.- 2	16.2-	I I b
R%nOAum	1S- 71				99		E
R%nOAum	1S- 72				1S1		E
pqa5OAum	4y71				90		E
pqa5OAum	4y72				94		E
pele5Aum	8271	S.yS	7S.- 9	S.- -	S.1y	- 18.01	I I b
pele5Aum	0072	7S.- 8	7S.- 8	7S.- 8	7S.- 8		I I b
pele5Aum	0872	7S.- 2	7S.yy	S.S9	7S.26		I I b
pAAqn5	2871	S.66	S.10	7S.S2	S.20	1- S.90	I I b
pAver	1S071	S.S2	S.S2	S.S-	S.S2	2S.yS	I I b
pAver	1S971	S.S-	S.S2	S.S2	S.S2	4.26	I I b
pnOAum	2- 72	142.84	1S0.98	1Sy.SS	118.61	10.04	I I b
p&n5&Aum	8671	1.26	S.0-	S.06	S.92	- 2.6y	I I b
p&n5&Aum	8871	S.86	S.02	S.08	S.09	8.0-	I I b
pulfur	- 471	9- y.8-	7- S0.y0	7814.99	762.2y		I I b
i erbAum	1y971				1SS		E
i erbAum	1y972				98		E
i %allAum	2S- 71	S.26	S.21	S.2S	S.22	1- .9-	I I b
i %allAum	2Sy71	S.2-	S.22	S.2S	S.22	0.y1	I I b
i A5	11871	S.S4	S.SS	S.Sy	S.S-	0y.20	I I b
i A&a5Aum	4071	S.4-	S.49	S.- y	S.42	16.94	I I b
Ura5Aum	2- 871	S.S4	S.S-	S.S-	S.S-	9.86	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	y172	S.S-	S.S2	S.SS	S.S2	1S4.20	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				98		E
Y&&Aum	8972				99		E
ZA5q	6672	S.yy	S.19	S.S8	S.20	9S.- 2	I I b
ZAqn5Aum	9S71	S.S4	S.S-	S.Sy	S.S4	- 6.y1	I I b
ZAqn5Aum	9171	S.S-	S.S1	S.Sy	S.S-	0- .y8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Aluminium	2572	6.48	3.61	9.- 1	3.99	24.4-	ppb
Antimony	12171	P.11	P.12	P.P8	P.11	15.31	ppb
Arsenic	5372	P.P9	P.P6	P.P3	P.P4	99.45	ppb
Barium	19371	P.14	P.13	P.16	P.13	4.2-	ppb
Barium	19571	P.18	P.21	P.14	P.18	21.8-	ppb
Beryllium	- 71	P.P8	P.P6	P.P4	P.P6	9P.24	ppb
Bismuth	2P- 71				- -		%
Bismuth	2P- 72				- 5		%
Bromine	8171						cps
Cadmium	1P871	7P.P1	7P.P1	7P.P3	7P.P9		ppb
Cadmium	1P671	79.81	72.5-	74.13	79.38		ppb
Cadmium	11171	P.P1	P.P5	P.P1	P.P9	11P.29	ppb
Calcium	4971	23.84	24.44	16.1-	22.16	29.34	ppb
Calcium	4471	62.65	63.3-	34.25	6P.84	- .63	ppb
Carbon	1271						cps
Carbon	1272						cps
Chlorine	9371						cps
Chlorine	9372						cps
Chromium	3272	P.P-	P.P4	P.P4	P.P6	44.19	ppb
Cobalt	3- 72	P.P2	P.P2	P.P2	P.P2	- .28	ppb
Copper	6972	P.4-	P.4P	P.49	P.44	1P.24	ppb
Dysprosium	13671						cps
Dysprosium	13672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16P71						cps
Gadolinium	16P72						cps
Holmium	16371				1PP		%
Holmium	16372				- 5		%
Indium	11371				- 8		%
Indium	11372				- 6		%
Iron	3472	- .- 1	1P.- 9	4.86	8.35	95.- 6	ppb
Iron	3672	- .P4	- .3-	8.58	- .14	4.39	ppb
Iron	3572	5.8-	- .P6	3.- 3	5.64	2P.36	ppb
Krypton	8971						cps
Lead	2P671	P.9P	P.26	P.2P	P.23	18.89	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Lead	2P571	P.94	P.28	P.22	P.28	22.6-	ppb
Lead	2P871	P.9P	P.26	P.2P	P.23	1- .26	ppb
Lithium	671				- P		%
Magnesium	2472	19.4P	12.24	5.88	11.15	26.P3	ppb
Manganese	3372	P.21	P.18	P.19	P.15	29.- 6	ppb
Molybdenum	- 471	P.62	P.4-	P.95	P.4-	23.P1	ppb
Molybdenum	- 371	P.69	P.32	P.96	P.3P	26.5P	ppb
Molybdenum	- 671	P.31	P.31	P.94	P.43	21.24	ppb
Molybdenum	- 571	P.61	P.4-	P.45	P.32	14.92	ppb
Molybdenum	- 871	P.4-	P.44	P.42	P.43	8.82	ppb
Neodymium	13P71						cps
Neodymium	13P72						cps
Nickel	6P72	P.P6	P.P9	P.P3	P.P3	28.P5	ppb
0hosphorus	9172	79P.92	24.4-	26.54	6.- 5	469.6P	ppb
0otassium	9- 72	3- .81	44.48	96.48	46.- 2	23.25	ppb
Rhodium	1P971				- 8		%
Rhodium	1P972				- 5		%
Scandium	4371				- 8		%
Scandium	4372				- 4		%
Selenium	8271	P.P9	7P.P8	7P.3P	7P.18		ppb
Selenium	5572	2.P5	7P.98	P.56	P.82	14- .65	ppb
Selenium	5872	P.34	7P.32	P.P-	P.P9	134P.9-	ppb
Silicon	2871	P.12	P.14	P.P1	P.P-	58.- 1	ppb
Silver	1P571	P.P1	P.P2	P.P1	P.P1	48.- 6	ppb
Silver	1P- 71	P.PP	P.P1	P.PP	P.P1	56.56	ppb
Sodium	2972	- 5.25	88.- 3	82.33	8- .3-	8.29	ppb
Strontium	8671	P.83	1.P9	P.32	P.8P	92.81	ppb
Strontium	8871	P.88	P.56	P.62	P.53	15.51	ppb
Sulfur	9471	7255.P8	18.35	79P5.29	7188.38		ppb
Terbium	13- 71				- -		%
Terbium	13- 72				- 8		%
Thallium	2P971	P.15	P.18	P.16	P.15	3.66	ppb
Thallium	2P371	P.1-	P.16	P.19	P.16	16.4P	ppb
Tin	11871	P.P1	P.P1	P.PP	P.P1	115.49	ppb
Titanium	4571	P.63	P.49	P.42	P.3P	23.62	ppb
Uranium	29871	P.P3	P.P9	P.P2	P.P9	42.11	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Vanadium	3172	P.P9	P.P2	P.P4	P.P9	96.13	ppb
Ytterbium	15271						cps
Ytterbium	15272						cps
Ytterbium	15671						cps
Ytterbium	15672						cps
Yttrium	8- 71				1PP		%
Yttrium	8- 72				- 6		%
Zinc	6672	P.98	P.16	P.15	P.24	32.55	ppb
Zirconium	- P71	P.P4	P.P9	P.P1	P.P9	63.62	ppb
Zirconium	- 171	7P.P1	7P.P2	P.P9	P.PP	2P81.49	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: S7	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J17a7-a46	t w&WJA8 Juwb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	71FN0	74F 6	72F2S	77FS1	-F14	l l e
c5&b n5h	12191	7F7-	7F24	7F71	7F7S	1F02	l l e
cpl r 5Aq	0-92	1F64	1F 7	1F6	1F0-	NF N	l l e
BwpAmb	17-91	10FSN	1-F62	16FS-	16F2-	4F61	l l e
BwpAmb	17091	16F1-	16F70	16FS2	16F1N	1FS0	l l e
Br ph8Amb	91	1F07	1F61	1F=6	1F67	-F40	l l e
BAAb m8%	2S 91						E
BAAb m8%	2S 92				1S1		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F67	1F76	1F=6	1F=2	F72	l l e
CwCb Amb	1S691	91F70	SF0-	1F4-	SF2N	-2NF11	l l e
CwCb Amb	11191	1FN2	1F07	1F4	1F6N	1SF1S	l l e
Cw&pAmb	4791	064F 6	07SFN0	041F22	04-F6	2F74	l l e
Cw&pAmb	4491	N10FS6	00-F66	060F4N	0N6F07	7F7N	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	2F 0	7F7N	7F20	7F2S	6F=N	l l e
Cnew&&	- 92	1F=6	1FN1	1F6N	1F6N	0F=	l l e
CnI l r p	6792	7F4	7F0-	7F0-	7F66	4FSN	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8A5Amb	16S91						ql l
GwOn8A5Amb	16S92						ql l
Hn8b Amb	16-91				1SS		E
Hn8b Amb	16-92				1S1		E
D5OAmb	11-91				1SS		E
D5OAmb	11-92				1S1		E
Dpn5	-492	714F7N	761F2N	77NF0S	77NF12	6F 4	l l e
Dpn5	-692	71NF=0	74-F24	77 F2	774F70	4F1	l l e
Dpn5	-092	716F=-	7-7F12	740FS	77NF 2	-F0N	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F=6	1F64	1F6S	1F6S	2F41	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&I wb l 8 JD JaJ	LC: S7	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J17a7-a46	t w&WUA8 Juwb r Ja	S22LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F62	1F-	1F-0	1F-	1F7	l l e
Lr wO	2SN91	1F67	1F-	1F-0	1F6S	2FS1	l l e
LA&%Amb	691				1		E
y wW5r l Amb	2492	NS1F71	N NF1	N2NF2	N42F6S	-F 7	l l e
y w5Mw5r l r	- - 92	1F6S	1F66	1F6	1F6-	2F60	l l e
y n8neOr 5mb	491	NFN2	NF61	NF	NFNS	2F12	l l e
y n8neOr 5mb	-91	NFS1	0F77	0F00	0F0S	4F-7	l l e
y n8neOr 5mb	691	0F 0	0F- -	0F6N	0F04	2F0-	l l e
y n8neOr 5mb	091	0F4N	0F66	0F-	0F-N	1F22	l l e
y n8neOr 5mb	N91	0F-6	0F4-	0F67	0F- -	1F1	l l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F0S	2FS	1FN-	1FNN	1SF-2	l l e
3 %nl l %npm	7192	9- - FN7	1-F42	94F0-	91-FS-		l l e
3 n&w l Amb	7 92	0NSFSS	NN6FSS	N-7F06	N7 F 2	6F40	l l e
v %nOAmb	1S791						E
v %nOAmb	1S792						E
: qw5OAmb	4-91				0		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F 7	0F47	0F42	0F-	7FNS	l l e
: r 8 5Amb	0092	11FS0	1SF1	6F42	F27	26F00	l l e
: r 8 5Amb	0N92	FN	1SFN2	FN6	1SF1	-F74	l l e
: A&qn5	2N91	1F7-	1FSN	1FS1	1F1-	1-F-4	l l e
: A&gr p	1S091	1F67	1F64	1F62	1F67	SF00	l l e
: A&gr p	1S 91	1F06	1F01	1F67	1F0S	4FS0	l l e
: nOAmb	2792	N-6F42	4-F06	N 7FS0	N NF42	-FSS	l l e
: &pn5&Amb	N691	1FN7	1F00	1FN7	1FN1	1F 7	l l e
: &pn5&Amb	NN91	1F04	1F-6	1F66	1F66	-F26	l l e
: m&mp	7491	676F 4	1-SF0S	912SF24	222F40	102F46	l l e
i r peAmb	1- 91				1SS		E
i r peAmb	1- 92						E
i %w&Amb	2S791	1F0S	1F60	1F6S	1F66	7F2S	l l e
i %w&Amb	2S-91	1F00	1F-	1F-4	1F67	0F16	l l e
i A5	11N91	SFS2	SFS1	SFS1	SFS1	41F66	l l e
i A&w5Amb	4091	NF-6	NF-1	NF71	NF46	1F6S	l l e
Rpw5Amb	27N91	1F-1	1F4N	1F4-	1F4N	1F 1	l l e

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Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J17a7-a46	t w&WJA8 Ju wb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	0F 1	NF60	NF40	NF7-	4F06	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				N		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	0F-	NF- -	F1-	NF47	F7-	l l e
ZAqn5Amb	S91	1F-4	1F4	1F-6	1F-7	2F71	l l e
ZAqn5Amb	191	1F6-	1F- -	1F6S	1F6S	2F -	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	- 6U57	- 6U1-	- 7U06	- 7U1J	SU77	DDe
q5Tb n5%	121 1	SU1a	SU16	SU1a	SU1J	0U1S	DDe
qpl r 5cd	07 2	SU17	SU24	SU21	SU2S	2- U4-	DDe
Bwpcmb	1- 7 1	26U50	27U00	27U2S	27U6J	1U0-	DDe
Bwpcmb	1- 0 1	20U4J	27U6S	27U44	26U10	4UJ4	DDe
Br p%8cmb	a 1	SU11	SU1S	SU1S	SU1S	7UJ0	DDe
Bdb mTE	2Sa 1				a4		G
Bdb mTE	2Sa 2				a6		G
Bpmb d5r	J1 1						dDl
v wob cmb	1SJ 1	SU5S	SU16	SU51	SU57	1a1U16	DDe
v wob cmb	1S6 1	- U1-	2U74	4U2-	- UJS		DDe
v wob cmb	111 1	SU5S	SU51	SU52	SU51		DDe
v w8dcmb	4- 1	1- 0J4U2S	1- a- - U47	1- JJ4U61	1- J60U42	SU77	DDe
v w8dcmb	44 1	14177U14	14- 4- U42	14Sa- U00	141a0U44	SUa2	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	4U1S	4U24	4U12	4U17	1UJ0	DDe
v new8T	7a 2	SU26	SU20	SU2-	SU26	0UJ1	DDe
v nDDr p	6- 2	SUJ1	SUaa	SUJ0	SUJa	aUJ1	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				a7		G
h n8b cmb	167 2				a6		G
t5ocmb	117 1				a6		G
t5ocmb	117 2				a7		G
tpn5	74 2	- 2JU0a	- 46U52	- - 7UJ7	- - 6UJa	2U70	DDe
tpn5	76 2	- 26U2-	- 4JUJa	- - 6U76	- - 0U2-	- UJ6	DDe
tpn5	70 2	- 44U70	- 7aU56	- 72U54	- 71UJa	2U56	DDe
Kp%DTn5	J- 1						dDl
Lr wo	2S6 1	SUJJ	SUJ0	SU4S	SUJJ	- U61	DDe

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LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	SUJ J	SU4S	SUJ 6	SUJ J	7U40	DDe
Lr wo	2SJ 1	SUJ J	SU4S	SUJ 0	SUJ J	- U0J	DDe
LdEomb	6 1				Ja		G
y wW5r l omb	24 2	2J20U46	- S16U2J	2aSaUJa	2a10U01	- U27	DDe
y w5Mw5r l r	77 2	11U66	12U1J	11U0J	11UJ0	2UJ 2	DDe
y n8%eor 5mb	a4 1	1UJ 1	1U2S	1UJ S	1U20	4U0-	DDe
y n8%eor 5mb	a7 1	1U20	1UJ 1	1U1a	1U26	7U5a	DDe
y n8%eor 5mb	a6 1	1UJ -	1U2J	1U21	1U20	4U00	DDe
y n8%eor 5mb	a0 1	1U40	1U2a	1UJ J	1UJ J	6U72	DDe
y n8%eor 5mb	aJ 1	1U27	1U21	1U24	1U2-	1U0J	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	1U70	1UJa	1U0-	1U0-	aUJ S	DDe
NEnl DEnpm	- 1 2	21U2S	2Ua4	10Ua2	14U52	6aU4-	DDe
NnTwl omb	- a 2	1672U22	1076UJ1	16J2U57	16a0U5-	- U10	DDe
CEnoomb	1S- 1				a4		G
CEnoomb	1S- 2				a6		G
l dw5oomb	47 1				a-		G
l dw5oomb	47 2				a2		G
l r 8 5omb	J2 1	SU1S	SU64	SU12	SU14	- S7U5J	DDe
l r 8 5omb	00 2	SUJ J	2U5a	SUJ J	SU44	- 2SU50	DDe
l r 8 5omb	0J 2	SU74	1U6a	SUJ 1	1U51	7aUJ 6	DDe
l 8dn5	2J 1	2S2U64	212U22	2S0U1J	2S0UJ 7	2UJ 1	DDe
l 8gr p	1S0 1	SU51	SU5S	SU51	SU5S	62UJ0	DDe
l 8gr p	1Sa 1	SU51	SU51	SU5S	SU51	4aU2S	DDe
l nomb	2- 2	1S62JUJJ	11107U0-	1S047U26	1SJ4aUa6	2U66	DDe
l Tpn5Tomb	J6 1	66U6S	0SU20	67U60	60U71	- U6S	DDe
l Tpn5Tomb	JJ 1	66U07	60UJ0	66Ua2	60U1J	SUaS	DDe
l m8mp	- 4 1	41J6U2-	- aJ4UaJ	4121U76	4Sa0U7a	2U71	DDe
Ar peomb	17a 1				a7		G
Ar peomb	17a 2				a0		G
AEw8omb	2S- 1	SU12	SU5a	SU11	SU1S	1- Uaa	DDe
AEw8omb	2S7 1	SU5J	SU50	SU56	SU50	1- U7a	DDe
Ad5	11J 1	SUJ 1	SU2a	SU1a	SU20	2- UJ J	DDe
AdTw5omb	40 1	SUJ-	1U57	SUJ 6	SUa1	1- U21	DDe
Rpw5omb	2- J 1	SUa7	SUaa	SUa-	SUa7	- U27	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- S0 12:1- 9- J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMU:v n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	SU-a	SU71	SU44	SU47	1- U1S	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	Ja 1				a4		G
YTTpcmb	Ja 2				a7		G
Zd5d	66 2	16U24	16Ua0	17U-7	16U1a	7US-	DDe
Zqpdn5cmb	aS 1	SUSa	SU11	SU17	SU12	27U17	DDe
Zqpdn5cmb	a1 1	SUS7	SUSa	SU17	SUSa	74US-	DDe

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	4JFJS	4- F77	44F02	47F6h	6FS4	l l b
cn&mon%	121 1	SF12	SF1-	SF12	SF12	0F1-	l l b
crwenAq	07 2	SF7S	SF- 7	SF4S	SF41	1JFh4	l l b
BsrAum	1- 7 1	4- F- 2	46FS1	47F4h	44Fh4	- F1J	l l b
BsrAum	1- 0 1	4- F2S	47F67	44FJ1	44F77	2F0h	l l b
Ber%BAum	h 1	SF14	SF16	SF17	SF17	4F61	l l b
BAumu&E	2Sh 1				1SS		G
BAumu&E	2Sh 2				1S2		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF02	SF16	SF6-	SF7S	6SF16	l l b
RsOmAum	1S6 1	- F20	- F16	- Fh0	- F40		l l b
RsOmAum	111 1	SFS1	SFSS	SFS2	SFS1		l l b
RsRqAum	4- 1	20207F60	20670F4-	2J6J0F42	20J0- F71	2F62	l l b
RsRqAum	44 1	2JhhSF1-	2J111Fh7	2h7- hF42	2JJJSF7S	2F4h	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- 7 1						ql w
REPrAne	- 7 2						ql w
REromAum	72 2	1FhJ	1F02	1F02	1FJ1	JF4-	l l b
RobsR&	7h 2	SF74	SF72	SF70	SF74	4F0J	l l b
Rol l er	6- 2	1FS1	SFJ4	1FS2	SFh6	1SF4h	l l b
t %w l rowAum	176 1						ql w
t %w l rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	167 1				1SS		G
y oPmAum	167 2				1S4		G
DnOAum	117 1				hJ		G
DnOAum	117 2				1S1		G
Don	74 2	JhJF16	0h1F42	J16F0h	J- 7F46	6F60	l l b
Don	76 2	JJSFS1	0h1FSS	J- hFSS	J- 6F60	7F- 2	l l b
Don	70 2	JJJF20	J- 6FS7	JJ6F60	J0SF- -	- F41	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF- -	SF- 6	SF- 4	SF- 4	7F66	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	SF- -	SF- 2	SF2h	SF- 2	6FJJ	l l b
LesO	2SJ 1	SF- -	SF- 4	SF- 1	SF- -	4Fh4	l l b
LAEAum	6 1				JJ		G
MsgnewAum	24 2	0- 4hF- -	602SFSh	0S22F10	0S- SF7-	4F4J	l l b
Msngsnewe	77 2	61FJ1	76F- -	7hF04	7hF2h	4F66	l l b
MoP%bOenum	h4 1	7F- 1	7F7J	7F11	7F- -	4F47	l l b
MoP%bOenum	h7 1	6F2S	6F74	6F1-	6F2h	- F4h	l l b
MoP%bOenum	h6 1	6F14	6F2h	6F14	6F1h	1F- 0	l l b
MoP%bOenum	h0 1	6F1J	6F24	6F47	6F2h	2F20	l l b
MoP%bOenum	hJ 1	6FS0	6F- h	6FSJ	6F1J	2FhJ	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ7	SFJJ	SFJ1	SFJ7	4F47	l l b
8EowI Eoruw	- 1 2	- SF1h	JFJ2	JhFS6	22F76	26hF4J	l l b
8o&swwAum	- h 2	2JJSFJ7	27h7F00	206SFJ1	2047FJ1	7F21	l l b
5EoOAum	1S- 1				h6		G
5EoOAum	1S- 2				1S1		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				hh		G
pe?enAum	J2 1	SF27	SF42	SF76	SF41	- 0F16	l l b
pe?enAum	00 2	SF0h	SF- J	1F0J	SF0-	140F01	l l b
pe?enAum	0J 2	SFhh	SFSh	1F1h	SF0S	hJF4h	l l b
pAqon	2J 1	- 22Fh-	- - SFSJ	- 24F26	- 27F06	1F10	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	21JF4h	l l b
pA?er	1Sh 1	SFS1	SFSS	SFS1	SFS1	1SSFJ0	l l b
poOAum	2- 2	2174- FJS	1h- 17Fh7	1h4J6F04	2S117F7S	6F16	l l b
p&on&Aum	J6 1	167F76	107F- 0	166F00	16hF2-	- F16	l l b
p&on&Aum	JJ 1	10SF67	1J1F1S	104F47	107F4S	- FS2	l l b
pulFur	- 4 1	1- S1JF4-	12h41F02	1- 106F21	1- S47F46	SFh2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				1S2		G
i EsPAum	2S- 1	SFSJ	SFS0	SFSJ	SFSJ	hF7h	l l b
i EsPAum	2S7 1	SFSh	SFS0	SFSJ	SFSJ	JFJ0	l l b
i An	11J 1	SF27	SF- 1	SF- S	SF2J	11F7J	l l b
i A&snAum	40 1	1F21	SFJJ	SFhS	1FSS	1JF07	l l b
UrsnAum	2- J 1	1Fh1	1FhJ	1Fh-	1Fh4	1F0h	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	SF4S	SF- 7	SF4S	SF- J	6Fh7	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				1S4		G
ZAnq	66 2	4- Fh6	- hF6J	4- F0-	42F47	7F60	l l b
ZAqonAum	hS 1	SF12	SF12	SF1S	SF11	12F62	l l b
ZAqonAum	h1 1	SF1S	SF57	SF50	SF50	- 6F- J	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	44F7J	44F21	44FS0	44F2h	SF6S	l l b
cn&mon%	121 1	SF14	SF10	SF1S	SF14	24Fh7	l l b
crwenAq	07 2	SF72	SF41	SF47	SF46	11F74	l l b
BsrAum	1- 7 1	40F26	7SF41	44F0h	40F4h	7Fh-	l l b
BsrAum	1- 0 1	46FSS	7SF2J	47Fh6	40F41	7F27	l l b
Ber%BAum	h 1	SF12	SF14	SF11	SF1-	hFh1	l l b
BAumu&E	2Sh 1				h6		G
BAumu&E	2Sh 2				h0		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF7J	SF- 7	SF40	SF40	24F14	l l b
RsOmAum	1S6 1	2Fh6	- F42	- F2h	- F22		l l b
RsOmAum	111 1	SFS2	SFS2	SFS1	SFSS		l l b
RsRqAum	4- 1	2JS14F44	- S1- SF4J	2J11JF11	2J074F- 4	4F17	l l b
RsRqAum	44 1	2J7S6FJ1	- 1- hJF21	2Jh26Fhh	2h61SF60	7F2J	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REROrAne	- 7 1						ql w
REROrAne	- 7 2						ql w
REromAum	72 2	1FJ6	1FhJ	1FJ0	1FhS	- F- J	l l b
RobsR&	7h 2	SF7h	SF62	SF72	SF7J	JF61	l l b
Rol l er	6- 2	SFJJ	SFJJ	SFh2	SFJh	2F7S	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoRhAum	16S 1						ql w
HsOoRhAum	16S 2						ql w
y oRmAum	167 1				h0		G
y oRmAum	167 2				1SS		G
DnOAum	117 1				h6		G
DnOAum	117 2				h0		G
Don	74 2	0h7F70	J2SF00	J1hF4-	J11Fh2	1F07	l l b
Don	76 2	J24F- 6	J27FJ1	J1JF2h	J22FJ2	SF4J	l l b
Don	70 2	J46F77	J- 6F- 1	J47F21	J42F6h	SF66	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF2h	SF- 4	SF2J	SF- S	1SF6-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	SF2J	SF2J	SF26	SF20	- F6-	l l b
LesO	2SJ 1	SF20	SF- 1	SF26	SF2J	hF1J	l l b
LA&EAum	6 1				JJ		G
MsgnewAum	24 2	044hF72	0- 01F0S	07S1F1-	044SF0J	SFJJ	l l b
Msngsnewe	77 2	61FJ2	62FJ4	61F0h	62F17	SFh6	l l b
MoP%bOenum	h4 1	7F17	7F- 6	7F- 1	7F20	2FSh	l l b
MoP%bOenum	h7 1	6FSJ	6F- h	6F- S	6F27	2F70	l l b
MoP%bOenum	h6 1	6FS4	6F76	7Fh4	6F1J	7F- 6	l l b
MoP%bOenum	h0 1	6F1S	6F7h	7FJS	6F16	6F46	l l b
MoP%bOenum	hJ 1	6F2J	6F0S	7Fh1	6F- S	6F- -	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ6	SFh0	SF00	SFJ0	11F- 7	l l b
8 EowI Eoruw	- 1 2	hF42	1JF04	14F77	4F74		l l b
8 o&swwAum	- h 2	2J02F47	2J77Fh-	2J44F66	2J70F6J	SF4h	l l b
5 EoOAum	1S- 1				h4		G
5 EoOAum	1S- 2				h0		G
pqsnOAum	47 1				h4		G
pqsnOAum	47 2				h4		G
pe?enAum	J2 1	SF42	SFJS	1FS2	SF07	4SF67	l l b
pe?enAum	00 2	SF- J	- F1S	- F1-	1Fh7	1S- F- 2	l l b
pe?enAum	0J 2	SF- S	SF44	1F- 1	SF6J	JSF14	l l b
pAAqon	2J 1	- 22FJS	- 47F- S	- 14FJ6	- 20F67	4FJ2	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	217F11	l l b
pA?er	1Sh 1	SFSS	SFS1	SFSS	SFSS	h4F64	l l b
poOAum	2- 2	211h1F06	2Sh60Fh4	21442F41	212SSF0S	1F12	l l b
p&on&Aum	J6 1	166F7-	1JSF4J	160F11	101F- 0	4F61	l l b
p&on&Aum	JJ 1	101F66	1J0FJJ	100F1h	10JFh1	4F61	l l b
pu?ur	- 4 1	12h60FJS	147- 4F0-	124h0F40	1- - - - F- -	JFSS	l l b
i erbAum	17h 1				h6		G
i erbAum	17h 2				hh		G
i EsPAum	2S- 1	SFS0	SFS7	SFSJ	SFS6	27FS4	l l b
i EsPAum	2S7 1	SFS7	SFS6	SFS7	SFS7	1- F2J	l l b
i An	11J 1	SF2-	SF21	SF1h	SF21	JF66	l l b
i A&snAum	40 1	SFJ0	SFhS	SF0J	SFJ7	6FhS	l l b
UrsnAum	2- J 1	1Fh2	2FS0	1Fh4	1FhJ	4F12	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	71 2	SF71	SF- -	SF- 7	SF- h	24Fh6	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h7		G
Y&&Aum	Jh 2				h0		G
ZAnq	66 2	42F0J	4- F- 1	4- F61	4- F2-	SFh0	l l b
ZAqonAum	hS 1	SF50	SF50	SF50	SF50	7F71	l l b
ZAqonAum	h1 1	SF50	SF50	SF50	SF50	7F40	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Aluminium	23X2	8.81	9.8O	9.66	9.4-	0.66	ppb
Antimony	121X1	O.O-	O.O-	O.O4	O.O-	23.O2	ppb
Arsenic	30X2	O.1O	O.O3	O.O3	O.O3	2O.3O	ppb
Barium	1- 0X1	9.1O	9.O9	9.36	9.- 2	4.11	ppb
Barium	1- 3X1	8.99	9.11	9.62	9.24	- .6O	ppb
Beryllium	9X1	O.O4	O.O4	O.O0	O.O4	- .92	ppb
Bismuth	2O9X1				1O2		%
Bismuth	2O9X2				1O2		%
Bromine	81X1						cps
Cadmium	1O8X1	O.- 4	O.10	O.01	O.- -	04.81	ppb
Cadmium	1O6X1	X2.0-	X1.48	X1.03	X1.86		ppb
Cadmium	111X1	XO.O4	XO.O1	XO.O-	XO.O-		ppb
Calcium	4- X1	0489.16	0323.03	08O- .21	063- .- 1	2.89	ppb
Calcium	44X1	0398.18	6O44.4O	6180.30	6OO9.44	- .26	ppb
Carbon	12X1						cps
Carbon	12X2						cps
Chlorine	- 0X1						cps
Chlorine	- 0X2						cps
Chromium	02X2	O.- 0	O.4-	O.- 9	O.- 9	1O.66	ppb
Cobalt	09X2	O.12	O.O9	O.12	O.11	16.99	ppb
Copper	6- X2	O.28	O.- -	O.- 4	O.- 2	11.41	ppb
Dysprosium	106X1						cps
Dysprosium	106X2						cps
Erbium	164X1						cps
Erbium	164X2						cps
Gadolinium	16OX1						cps
Gadolinium	16OX2						cps
Holmium	160X1				1O2		%
Holmium	160X2				1O4		%
Indium	110X1				1O2		%
Indium	110X2				1O2		%
Iron	04X2	166.01	166.03	163.28	166.39	O.26	ppb
Iron	06X2	166.- 4	169.40	16- .48	166.42	1.39	ppb
Iron	03X2	136.32	191.- 4	132.- 6	18O.14	0.02	ppb
Krypton	8- X1						cps
Lead	2O6X1	O.O8	O.O9	O.O9	O.O8	0.- -	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Lead	2O3X1	O.O0	O.O3	O.O0	O.O6	2O.82	ppb
Lead	2O8X1	O.O3	O.O6	O.O3	O.O3	0.90	ppb
Lithium	6X1				92		%
Magnesium	24X2	1438.11	1484.20	141- .8-	1408.3-	2.63	ppb
Manganese	00X2	12.41	12.1-	11.34	12.O9	2.38	ppb
Molybdenum	94X1	1.19	1.19	1.O4	1.14	3.01	ppb
Molybdenum	90X1	1.O8	1.14	1.2-	1.10	6.- 0	ppb
Molybdenum	96X1	1.14	1.22	1.- 2	1.2-	3.- 6	ppb
Molybdenum	93X1	1.13	1.20	1.4O	1.23	9.- -	ppb
Molybdenum	98X1	1.13	1.22	1.- O	1.2-	0.4O	ppb
Neodymium	10OX1						cps
Neodymium	10OX2						cps
Nickel	6OX2	O.21	O.10	O.21	O.19	13.98	ppb
Phosphorus	- 1X2	X13.8O	X- 4.O1	X26.98	X26.23		ppb
Potassium	- 9X2	084.- 4	084.16	003.- 8	030.29	2.3O	ppb
Rhodium	1O- X1				1OO		%
Rhodium	1O- X2				1O-		%
Scandium	40X1				98		%
Scandium	40X2				98		%
Selenium	82X1	O.2-	XO.- 0	XO.22	XO.11		ppb
Selenium	33X2	XO.- 8	XO.- 8	XO.- 8	XO.- 8		ppb
Selenium	38X2	O.44	O.O0	O.O3	O.19	118.0-	ppb
Silicon	28X1	62.18	60.6O	63.08	60.12	4.2O	ppb
Silver	1O3X1	O.OO	O.OO	O.O1	O.OO	18- .6-	ppb
Silver	1O9X1	O.OO	O.OO	O.OO	O.OO		ppb
Sodium	2- X2	4210.O4	4140.10	41O2.OO	4104.O6	1.- 3	ppb
Strontium	86X1	- - .82	- 4.18	- 4.18	- 4.O6	O.62	ppb
Strontium	88X1	- 2.64	- 4.O2	- - .21	- - .29	2.O9	ppb
Sulfur	- 4X1	1630.83	2O98.11	2216.04	1996.84	14.2-	ppb
Terbium	109X1				1O1		%
Terbium	109X2				1O-		%
Thallium	2O- X1	O.O4	O.O4	O.O0	O.OO	16.14	ppb
Thallium	2OOX1	O.O4	O.O4	O.O4	O.O4	11.22	ppb
Tin	118X1	O.12	O.O6	O.O6	O.O8	41.03	ppb
Titanium	43X1	O.14	O.14	O.13	O.10	12.29	ppb
Uranium	2- 8X1	O.- 8	O.- 8	O.- 9	O.- 8	1.4O	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Vanadium	01X2	O.O8	O.O8	O.O0	O.O3	19.86	ppb
Ytterbium	132X1						cps
Ytterbium	132X2						cps
Ytterbium	136X1						cps
Ytterbium	136X2						cps
Yttrium	89X1				1OO		%
Yttrium	89X2				1O1		%
Zinc	66X2	9.28	9.46	8.94	9.2-	2.84	ppb
Zirconium	90X1	O.OO	O.O2	O.O1	O.O1	1O1.91	ppb
Zirconium	91X1	O.OO	O.O1	O.OO	O.OO	2693.40	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	210hFh1	220SFS4	224- F- 1	22- 1FSh	2FS0	l l b
cn&mon%	121 1	hhF0S	hhF1S	1SSF6h	hhFJ-	SFJ1	l l b
crwenAq	07 2	41F- -	42F07	41F67	41Fh1	1F0h	l l b
BsrAum	1- 7 1	2- 2JF4J	2- - 6FJJ	2242FJ7	2- S2F0-	2F26	l l b
BsrAum	1- 0 1	226SF26	22- 4FJh	22S0F- 4	22- 4F16	1F1J	l l b
Ber%BAum	h 1	7- FS4	77FSS	77F11	74F- J	2F14	l l b
BAumu&E	2Sh 1				hJ		G
BAumu&E	2Sh 2				hJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	41F44	47F10	47F- 0	4- Fhh	7FS4	l l b
RsOmAum	1S6 1	- hFS7	- JF21	- hF- h	- JFJJ	1F70	l l b
RsOmAum	111 1	7- F- 4	72F1J	7SFhJ	72F10	2F26	l l b
RsRqAum	4- 1	2061SF6S	20h17F0h	2J- 0SF72	20h67F64	1F- 0	l l b
RsRqAum	44 1	2J40- F46	2J6- hFJh	2Jh40FS1	2J6J6F0h	SFJ4	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	216F64	227F04	221F6-	221F- -	2FS6	l l b
RobsR&	7h 2	700FS1	611F4S	611F6S	6SSFSS	- F- 2	l l b
Rol l er	6- 2	20SFS4	2JSF64	206F21	207F6-	1Fh-	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				hh		G
y oFmAum	167 2				hh		G
DnOAum	117 1				hJ		G
DnOAum	117 2				h0		G
Don	74 2	16- 7Fh1	16hJFJ7	167SF46	1661F04	1FhJ	l l b
Don	76 2	176- FJ2	1642FS6	1614F1S	16S6F66	2F40	l l b
Don	70 2	1407F21	17JSF44	17- 4F0J	17- SF14	- F47	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	1JFS6	1JF64	1JF2-	1JF- 1	1F62	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	1JF41	1JF74	1JF46	1JF40	SF-0	l l b
LesO	2SJ 1	1JF1h	1JF77	1JF76	1JF4-	1F14	l l b
LAEAum	6 1				hS		G
MsgnewAum	24 2	0140F26	046SF0J	04S1F64	0- - 6F76	2F20	l l b
Msngsnewe	77 2	70JFS1	612F0J	7h2F2-	7h4F-4	2Fh4	l l b
MoP%bOenum	h4 1	7F2J	7F7S	7F22	7F-4	2F0-	l l b
MoP%bOenum	h7 1	6F16	6FS0	6FS4	6FSh	1FS-	l l b
MoP%bOenum	h6 1	6F14	6F2-	7Fh0	6F11	2F22	l l b
MoP%bOenum	h0 1	6FS-	6F41	6FS-	6F17	- F77	l l b
MoP%bOenum	hJ 1	6FS2	6F-0	7FhJ	6F12	- F77	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	700F4J	7h6F12	7h7F-0	7JhF67	1F0h	l l b
8EowI Eoruw	- 1 2	2JF0-	hFS1	7F-6	1SF0h		l l b
8o&swwAum	- h 2	200SF2-	2J42F4h	2J40FSh	2J1hFh4	1F7-	l l b
5EoOAum	1S- 1				h7		G
5EoOAum	1S- 2				hJ		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				h7		G
peRenAum	J2 1	h7F7h	1SSF12	h6F47	h0F-h	2F40	l l b
peRenAum	00 2	114F4J	1S0FS2	J4F77	1S2FS2	17F20	l l b
peRenAum	0J 2	1S6F0S	1S7F71	1S6F22	1S6F14	SF76	l l b
pARqon	2J 1	- 21F0S	- 2JF40	- - 4F27	- 2JF14	1Fh1	l l b
pARer	1S0 1	4- FJ7	4- Fh6	42Fh-	4- F7J	1F2h	l l b
pARer	1Sh 1	4- F42	42FhJ	4- FJS	4- F4S	SFh7	l l b
poOAum	2- 2	2S0- 6FS2	217S0F6S	21116F2h	2111hFh0	1FJ-	l l b
p&ona&Aum	J6 1	167FS6	10- FS-	167F4h	160FJ6	2F60	l l b
p&ona&Aum	JJ 1	102F44	104F1S	104F42	10- F66	SF61	l l b
pulPur	- 4 1	12010F64	12J- JF07	1- S72FJ4	12J6hF04	1F-2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				hh		G
i EsRAum	2S- 1	44FhJ	46F21	46F21	47FJS	1F77	l l b
i EsRAum	2S7 1	46F27	46FJ7	40F17	46F07	SFhJ	l l b
i An	11J 1	SF21	SF2J	SF-4	SF2J	2- F2h	l l b
i A&snAum	40 1	1FS1	1F17	1F1-	1F1S	6Fh4	l l b
UrsnAum	2- J 1	1FJJ	1FhS	1Fh0	1Fh2	2F4-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	76JF4h	7JJF20	7JSF40	70hFSJ	1F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				hJ		G
ZAnq	66 2	7JSF10	6SJF76	7h4F20	7h4F- -	2F- h	l l b
ZAqonAum	hS 1	SF5J	SF5J	SF5J	SF5J	- Fh2	l l b
ZAqonAum	h1 1	SF1-	SF12	SF5J	SF11	2- F- 0	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RlAn&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&s
clumAnAum	20 2	44F61	46F1-	48F86	46F7-	4F6-	I I b
cn&Amon%	121 1	SF2S	SF21	SF18	SF2S	hFS1	I I b
crsenAq	07 2	SF- 8	SF46	SF48	SF44	1SF8-	I I b
BarAum	1- 7 1	47F17	47F14	4SF60	4- F67	7Fh2	I I b
BarAum	1- 0 1	47F41	46FS7	4SF44	4- Fh0	6Fh8	I I b
Ber%lAum	h 1	SF14	SF14	SF17	SF17	- F8S	I I b
BAsmu&E	2Sh 1				1S2		G
BAsmu&E	2Sh 2				1SS		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SF24	SF4-	SFSS	SF22	h7F80	I I b
RaOmAum	1S6 1	4F4S	4F1h	- F10	- Fh2		I I b
RaOmAum	111 1	SFS1	SFS2	SFS-	SFS1	- 4hF8S	I I b
RalqAum	4- 1	20718F0-	20- 12F1h	242- SF64	26- 7- F87	6Fhh	I I b
RalqAum	44 1	28S87FS2	20hS1F1h	246h0Fh6	268h4F02	0FS8	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
RElorAne	- 7 1						ql s
RElorAne	- 7 2						ql s
REromAum	72 2	2F48	2F78	2F7-	2F7-	2FS0	I I b
Robal&	7h 2	SF00	SF0-	SF06	SF07	2F4h	I I b
RoI I er	6- 2	SFh6	SFh7	SFh8	SFh6	1F7-	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				1S4		G
y olmAum	167 2				1S1		G
DnOAum	117 1				1S4		G
DnOAum	117 2				hh		G
Don	74 2	146F7-	14- F20	176F2S	148F60	4F7-	I I b
Don	76 2	146FS-	140F2S	146F4h	146F70	SF4S	I I b
Don	70 2	180F8S	187FS-	1h4F11	188Fh8	2F46	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	SF4-	SF48	SF41	SF44	8F87	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	SF- h	SF42	SF- 6	SF- h	8F14	I I b
LeaO	2S8 1	SF42	SF46	SF- 8	SF42	hF- 8	I I b
LA&EAum	6 1				h2		G
MagnesAum	24 2	0120F61	02S4FS7	0282F01	02S4F0h	1FS8	I I b
Manganese	77 2	6SFS-	78F62	6SF6-	7hF06	1F0-	I I b
Mol%bOenum	h4 1	7F- 2	7F- S	4F6S	7FS8	8F1S	I I b
Mol%bOenum	h7 1	6FSS	6FSh	7F48	7F36	7F61	I I b
Mol%bOenum	h6 1	7FhS	7Fh1	7F21	7F60	0FSh	I I b
Mol%bOenum	h0 1	6F16	6FS4	7F4S	7F30	0FS2	I I b
Mol%bOenum	h8 1	6F2-	7Fh8	7F- h	7F30	0F- 8	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	1F44	1F71	1F7h	1F71	7FS1	I I b
PEosI Eorus	- 1 2	7F4S	2F2h	18Fh0	0F- 6		I I b
Po&assAum	- h 2	20h- Fh7	2087F- 6	2828F7S	28S2F6S	SF31	I I b
5 EoOAum	1S- 1				1S1		G
5 EoOAum	1S- 2				hh		G
pqanOAum	47 1				1S2		G
pqanOAum	47 2				h6		G
pelenAum	82 1	SF0S	SF7h	SF36	SF02	1hF18	I I b
pelenAum	00 2	SF- 8	SF06	SF- 8	SFSS	h4208F31	I I b
pelenAum	08 2	SF10	SF01	SF- 4	SF4S	68FS7	I I b
pAAqon	28 1	- 21F0h	- 18F38	281FSh	- S0F27	0F- h	I I b
pAver	1S0 1	SFSS	SFSS	SFS1	SFSS	h- F- -	I I b
pAver	1Sh 1	SFS1	SFS1	SFSS	SFS1	- 2F31	I I b
poOAum	2- 2	2S77- F31	21S72F2S	2S884F06	2S8- SF26	1F22	I I b
p&ona&um	86 1	162F2-	167F12	146Fh2	178FSh	6F1h	I I b
p&ona&um	88 1	16hF- -	102FSh	148F77	16- F- 2	0F38	I I b
pulfur	- 4 1	12- 80F20	11h01F70	h217F7S	111h1F47	17F4S	I I b
i erbAum	17h 1				1S4		G
i erbAum	17h 2				1SS		G
i EallAum	2S- 1	SFS8	SFS0	SFS6	SFS0	1SF46	I I b
i EallAum	2S7 1	SFS0	SFS6	SFS0	SFS0	6F74	I I b
i An	118 1	2Fhh	- FS8	2F6S	2F3h	8F0S	I I b
i A&anAum	40 1	SF08	SFh0	SF60	SF31	1hF27	I I b
UranAum	2- 8 1	1Fh1	1F37	1F0-	1F3-	4Fh6	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	71 2	SF76	SF4h	SF60	SF70	17F2-	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8h 1				1S2		G
Y&&Aum	8h 2				hh		G
ZAnq	66 2	40F71	47Fh6	46F02	46F0-	1F66	I I b
ZAqonAum	hS 1	SF58	SF56	SF58	SF50	16F76	I I b
ZAqonAum	h1 1	SF58	SF50	SF56	SF50	1- F16	I I b

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 976974	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	46U2	40U45	44U42	46U58	-U6	I I b
c n&Amon%	121 1	SU15	SU10	SU17	SU10	12U08	I I b
c rsenAq	07 2	SU47	SU47	SU71	SU40	0U18	I I b
BarAum	1-7 1	7SU17	47U71	42U55	46U22	0U36	I I b
BarAum	1-0 1	45U62	42U62	4-U87	47U6	8U27	I I b
Ber%IAum	5 1	SU17	SU1-	SU12	SU1-	5U67	I I b
BAsmu&E	2S5 1				57		G
BAsmu&E	2S5 2				1SS		G
BromAne	81 1						ql s
v aOmAum	1S8 1	SU45	SU5	SU77	SU48	16U7S	I I b
v aOmAum	1S6 1	7US	2U25	SU46	2U68		I I b
v aOmAum	111 1	SUS-	SUS4	SUS2	SUS1	474US5	I I b
v alqAum	4- 1	- - 571U0-	28- 48U50	25200US	- S726USS	5U34	I I b
v alqAum	44 1	- 4024U10	258SSU0-	- SS75U42	- 1728U11	8U05	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	-7 1						ql s
v ElorAne	-7 2						ql s
v EromAum	72 2	SU74	SU71	SU72	SU72	-U8	I I b
v obal&	75 2	SU64	SU6-	SU6S	SU62	-U7S	I I b
v ol I er	6- 2	SU52	SU3S	SU34	SU37	0U14	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	167 1				54		G
h olmAum	167 2				1S1		G
DnOAum	117 1				5-		G
DnOAum	117 2				1SS		G
Don	74 2	04U10	02U37	0SU05	02U61	2U7	I I b
Don	76 2	00U0	02U48	65U3-	0-U2-	7U22	I I b
Don	70 2	1S0U70	1S5U51	110US2	111U7S	4U42	I I b
Kr%I &on	8- 1						ql s
LeaO	2S6 1	SUS	SU15	SU21	SU2-	2-U34	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	SU1	SU15	SU15	SU2-	28U52	I I b
LeaO	2S8 1	SU28	SU22	SU22	SU24	14U71	I I b
LA&EAum	6 1				80		G
y aMhesAum	24 2	8287U S	81S6US6	0574U14	8117U16	2US4	I I b
y anManese	77 2	70U66	77U08	74U1	77U52	- USS	I I b
y ol%bOenum	54 1	8U2	0U77	0U5	0U06	6U41	I I b
y ol%bOenum	57 1	6U84	6U17	6U18	6U5	6U17	I I b
y ol%bOenum	56 1	0U18	6U2	6U44	6U64	6U50	I I b
y ol%bOenum	50 1	0US1	6U48	6US4	6U71	0U40	I I b
y ol%bOenum	58 1	0US4	6U12	6U24	6U40	0U01	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	SU68	SU05	SU60	SU01	5U48	I I b
PEosI Eorus	- 1 2	- SU1-	- - U56	26U45	0U77		I I b
Po&assAum	- 5 2	286- US7	2002U4-	2686U66	2004US7	- U18	I I b
CEoOAum	1S- 1				5-		G
CEoOAum	1S- 2				1SS		G
pqanOAum	47 1				52		G
pqanOAum	47 2				56		G
pelenAum	82 1	1U10	1US0	SU81	1US2	10U55	I I b
pelenAum	00 2	1U51	SU00	2U52	1U80	70U06	I I b
pelenAum	08 2	SU02	SU72	SU84	SU65	2- U46	I I b
pAAqon	28 1	- 65U8-	- 17U10	- 2- U77	- - 6U18	8U06	I I b
pAger	1S0 1	SUS1	SUS1	SUSS	SUS1	6- US8	I I b
pAger	1S5 1	SUS1	SUSS	SUSS	SUSS	180U10	I I b
poOAum	2- 2	22825U76	22228U4-	22- 51U85	2248- U S	1U8	I I b
p&ona&Aum	86 1	211U7-	108U50	105U74	15SUS1	5U81	I I b
p&ona&Aum	88 1	210U51	181U0	18- U22	154U10	1SU6S	I I b
pulfur	- 4 1	1584- U46	17160U86	17855U14	1650SU17	14U82	I I b
i erbAum	175 1				57		G
i erbAum	175 2				1S1		G
i EallAum	2S- 1	SUS0	SUS4	SUS7	SUS7	26U4	I I b
i EallAum	2S7 1	SUS6	SUS4	SUS4	SUS4	22U65	I I b
i An	118 1	SU42	2U42	SU7	1US6	11SU-	I I b
i A&anAum	40 1	1U25	1U2	SU81	1U14	24U06	I I b
RranAum	2- 8 1	2U7	1U55	2US-	2U12	5U24	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	71 2	SU7	SU8	SU7	SU6	4U06	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	85 1				52		G
Y&&Aum	85 2				1SS		G
ZAnq	66 2	- 6U47	- 7U87	- 4U61	- 7U64	2U64	I I b
ZAqonAum	5S 1	1U76	1U7	1U0	1U4-	8U2-	I I b
ZAqonAum	51 1	1U04	1U22	1U25	1U42	15U84	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J97 2	&sTsFdPP:u sb r :9	S- SqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	0U76	7UJ1	6U71	6U66	12U70	DDe
q5Tb n5%	121 1	SUS0	SUS6	SUSJ	SUS0	1NUJ4	DDe
qpwr 5cd	07 2	SUS2	SUS-	SUS1	SUS2	4- USJ	DDe
Bspcmb	1- 7 1	2U6-	2UJ4	2U6S	2U7-	6U20	DDe
Bspcmb	1- 0 1	2U67	2U64	2U76	2U62	1UN-	DDe
Br p%PPmb	J 1	SUS2	SUS2	SUS1	SUS2	2- U26	DDe
Bcvb mTE	2SJ 1				J6		G
Bcvb mTE	2SJ 2				JJ		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUS7	SUS-	SUJ-	SU1S	1J1UN4	DDe
v sob cmb	1S6 1	2UJ0	- U62	6U12	4U24		DDe
v sob cmb	111 1	SUS1	SUS2	SUSN	SUS4		DDe
v sPdcmb	4- 1	67UJ0	6JU1J	64U4-	66U7-	- U67	DDe
v sPdcmb	44 1	11- UN7	117U14	1SJUJ-	112UJ0	2U4S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	1UJ1	1UJ4	1U06	1UN0	7US2	DDe
v nesPT	7J 2	SU16	SU12	SU1-	SU14	12UN7	DDe
v nDDr p	6- 2	SU40	SU71	SU41	SU46	1SU2J	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				J6		G
h nPb cmb	167 2				1SS		G
t5ocmb	117 1				J7		G
t5ocmb	117 2				J0		G
tpn5	74 2	404U11	406USJ	40- U61	404U6S	SU2N	DDe
tpn5	76 2	401U0-	4N6USO	40- UJS	400U2-	1U62	DDe
tpn5	70 2	407U7S	4JSU76	476U06	404U20	- U70	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	SUJN	SUJ-	SUJN	SUJ0	0UJ-	DDe

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Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdPP:u sb r :9	S- SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	SUJ4	SUJ1	SU4S	SUJ7	12U4-	DDe
Lr so	2SN 1	SUJ6	SUJ4	SUJ0	SUJ6	- UJJ	DDe
LdEomb	6 1				N7		G
y sM5r womb	24 2	0U02	JUJ6	6U44	0UN4	1NU6N	DDe
y s5Ms5r wr	77 2	- U7N	- U0N	- U4-	- U6S	4UJ4	DDe
y nP%eor 5mb	J4 1	SUS-	SUSJ	SU1-	SUSN	7NUJ0	DDe
y nP%eor 5mb	J7 1	SUS0	SUS-	SUSJ	SUS6	42U64	DDe
y nP%eor 5mb	J6 1	SUS7	SU11	SUS6	SUS0	4- USN	DDe
y nP%eor 5mb	J0 1	SUS6	SUS6	SUS4	SUS7	22U74	DDe
y nP%eor 5mb	JN 1	SUS4	SUS6	SUS0	SUS6	- 2U17	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	1U07	1U04	1U02	1U04	1US0	DDe
8 EnwDEnpmw	- 1 2	0UJS	JU6-	JUJ7	2U04		DDe
8 nTswwomb	- J 2	40U61	72UN0	44U7J	4NUJ6	NU66	DDe
CEnoomb	1S- 1				J7		G
CEnoomb	1S- 2				JN		G
I ds5oomb	47 1				J4		G
I ds5oomb	47 2				J6		G
I r P 5omb	N2 1	SU11	SU0-	SU14	SU2-		DDe
I r P 5omb	00 2	SUJN	SUJN	1UJS	SUJN	- 44U7-	DDe
I r P 5omb	0N 2	SU7-	SU72	SU1-	SUJ1	121U00	DDe
I dPdn5	2N 1	1U7S	1UJ-	1UJ2	1UJN	0U24	DDe
I dPgr p	1S0 1	SUSS	SUS1	SUS1	SUSS	102U12	DDe
I dPgr p	1SJ 1	SUSS	SUSS	SUSS	SUSS		DDe
I noomb	2- 2	266UNN	267U42	26SU76	264U2N	1U27	DDe
I Tpm5Tomb	N6 1	SU26	SU22	SU2-	SU24	NU72	DDe
I Tpm5Tomb	NN 1	SU21	SU21	SU22	SU22	1U67	DDe
I mPmp	- 4 1	22U27	26NU7-	44NUJ4	246UJ0		DDe
Ar peomb	17J 1				J0		G
Ar peomb	17J 2				JN		G
AEs PPmb	2S- 1	SUS7	SUS4	SUS7	SUS7	JUJ6	DDe
AEs PPmb	2S7 1	SUS4	SUS-	SUS2	SUS-	1JUSN	DDe
Ad5	11N 1	SUJ0	SUJ4	SUJ6	SUJ6	- U64	DDe
AdS5omb	40 1	1UJ4	1U62	1U42	1U46	1SUS4	DDe
Rps5omb	2- N 1	SUSS	SUSS	SUSS	SUSS	- 4UJ4	DDe

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Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdP:u sb r :9	S- SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	SUS4	SUS7	SUS7	SUS7	10U66	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	NJ 1				J7		G
YTTpomb	NJ 2				JN		G
Zc5d	66 2	NU0S	NU7-	NU60	NU64	1US7	DDe
Zqpdn5omb	JS 1	SUS1	SUS2	SUSS	SUS1	NNU0S	DDe
Zqpdn5omb	J1 1	SUS4	SUS1	SUS2	SUS2	17NU41	DDe

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Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	:SF11	:SF5-	SF50	:SF57		l l b
c5&Amn5h	121:1	SF51	SF51	SF51	SF51	74F0-	l l b
crwe5Aq	0-:2	SF57	SF5S	SF51	SF51	1S7F 6	l l b
BsrAum	17-:1	SF5S	SF51	SF5S	SF5S	181F04	l l b
BsrAum	170:1	SF5S	SF51	:SF51	SF5S	1---F41	l l b
BerhFAum	:1	SF5S	SF51	SF5S	SF51	1- F40	l l b
BAumu&%	2S :1				1S2		E
BAumu&%	2S :2				1S7		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF74	SF-7	SF14	SF74	-8F00	l l b
CsOmAum	1S6:1	:7F6-	:2F52	:7F88	:7F18		l l b
CsOmAum	111:1	:SF5-	:SF5-	:SF54	:SF5-		l l b
CsRqAum	47:1	SF7	:SF8	:1F57	:SF-1		l l b
CsRqAum	44:1	28F88	26F68	20F1	20F-8	4F18	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	:SF51	SF5-	:SF56	:SF51		l l b
CnbsR&	- :2	:SF51	:SF51	SF5S	:SF51		l l b
CnI l er	67:2	SF50	SF50	SF14	SF5	78F82	l l b
t hwl rnwAum	1-6:1						ql w
t hwl rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S1		E
HnRmAum	16-:2				1S4		E
D5OAum	11-:1				1S1		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	SF22	:SF52	SF14	SF11	111F22	l l b
Dn5	-6:2	SF5	SF54	SF2S	SF11	04F2	l l b
Dn5	-0:2	:1F22	:SF-S	:SF74	:SF6		l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF51	SF5S	:SF51	SF5S	70-F	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S1	SF5S1	SF5S2	SF5S1	4-F1S	I I b
LesO	2S8:1	SF5S2	SF5SS	SF5SS	SF5S1	6F84	I I b
LA&%Aum	6:1				7		E
y sM5ewAum	24:2	SF24	SF1	:SF5-	SF17	127F-2	I I b
y s5Ms5ewe	- - :2	SF5S4	SF5S2	SF5S4	SF5S7	40F1-	I I b
y nPbOe5um	4:1	SF5S1	SF5-	SF5-	SF5S4	-6F1-	I I b
y nPbOe5um	- :1	SF5SS	SF5S1	SF5S1	SF5S1	70F24	I I b
y nPbOe5um	6:1	SF5S1	SF5S2	SF5S1	SF5S1	-4F71	I I b
y nPbOe5um	0:1	SF5SS	SF5S4	SF5SS	SF5S1	1-8F2	I I b
y nPbOe5um	8:1	SF5S1	SF5SS	SF5SS	SF5S1	7F78	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF5S1	SF5S1	SF5SS	SF5S1	- - F21	I I b
3%nwl %nruw	71:2	:7 F26	SF14	:44F46	:20F86		I I b
3n&swwAum	7 :2	4F60	6F8S	1SF8-	0F44	42F21	I I b
v %nOAum	1S7:1				1S1		E
v %nOAum	1S7:2				1S-		E
pqs5OAum	4- :1				1S1		E
pqs5OAum	4- :2				1S1		E
pefe5Aum	82:1	:SF61	:SF20	:SF1	:SF76		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	:SF-0	:SF10	SF48	:SF5		I I b
pAAqn5	28:1	SF22	SF5S7	SF5S8	SF11	SF5S8	I I b
pAger	1S0:1	SF5S1	SF5S1	SF5SS	SF5S1	0F27	I I b
pAger	1S :1	SF5SS	SF5S1	SF5S1	SF5SS	81F6S	I I b
pnOAum	27:2	72F42	70F74	48F41	7 F7	2SF8S	I I b
p&n5&Aum	86:1	:SF5S7	SF5S0	:SF5S1	SF5S1	4-8F21	I I b
p&n5&Aum	88:1	SF5S7	SF5S7	SF5SS	SF5S2	6F4S	I I b
pufur	74:1	:-S6F-6	:8- - F-2	:4-4F 2	:6S-F60		I I b
i erbAum	1- :1				1S2		E
i erbAum	1- :2				1S7		E
i %sPAum	2S7:1	SF5S7	SF5S4	SF5S4	SF5S4	18F7S	I I b
i %sPAum	2S-:1	SF5S2	SF5S2	SF5S4	SF5S7	24F5S2	I I b
i A5	118:1	:SF5S1	SF5SS	SF1-	SF5-	1 6F21	I I b
i A&s5Aum	40:1	SF5SS	:SF5-	SF5S2	:SF5S1		I I b
Rrs5Aum	278:1	SF5SS	SF5SS	SF5SS	SF5SS	2F48	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1299I4JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	-1:2	:SF5S1	SF5SS	:SF5S1	SF5SS		I I b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S2		E
Y&&Aum	8 :2				1S8		E
ZA5q	66:2	:SF5S8	:SF5S0	SF5S7	:SF5S4		I I b
ZAqn5Aum	S:1	:SF5S1	SF5S1	SF5SS	SF5SS	1-86F4-	I I b
ZAqn5Aum	1:1	SF5SS	:SF5S1	:SF5S1	:SF5S1		I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J14aS a14	t w&wJA8 Juwb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c 8mb A5Amb	2092	77F6	74F-S	4SF-0	76F2-	1SF70	l l e
c 5&b n5h	12191	7F1N	7F2-	7F2N	7F27	1F-4	l l e
cpl r 5Aq	0-92	1FNS	1F 1	1F62	1F0N	NF7S	l l e
BwpAmb	17-91	1-F76	16F41	16F72	16FS7	7F62	l l e
BwpAmb	17091	1-F6N	16F7-	16F10	16FS0	2F16	l l e
Br ph8Amb	91	1F62	1F6S	1F-1	1F-N	7F6-	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S-		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	2FSN	1F 0	2FN4	2F2	2SF-	l l e
CwCb Amb	1S691	SF1-	9-F4N	SF74	91F66		l l e
CwCb Amb	11191	1F S	1F00	1F64	1F00	0F2N	l l e
Cw&pAmb	4791	04SF02	024FN2	02NF-0	071F70	1F14	l l e
Cw&pAmb	4491	0-4F06	07 F61	062F01	0-2F76	1F-6	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%8np5r	7-91						ql l
C%8np5r	7-92						ql l
C%pmb Amb	-292	7F27	7F1N	7F21	7F21	SF0N	l l e
Cnew&&	- 92	1F6N	1F6	1F6	1F6	SF7S	l l e
CnI l r p	6792	7F6S	7F67	7F6S	7F61	SF-7	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8&5Amb	16S91						ql l
GwOn8&5Amb	16S92						ql l
Hn8b Amb	16-91				1S7		E
Hn8b Amb	16-92				1S-		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S7		E
Dpn5	-492	774F0N	742F70	776FN2	770F	1F16	l l e
Dpn5	-692	774FN4	77 F-N	772F2-	77-F-6	1F11	l l e
Dpn5	-092	726F0-	726F-N	720FS4	726F0	SFS0	l l e
Kphl 8a5	N791						ql l
LrwO	2S691	1F4	1F-2	1F4N	1F-S	1F42	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 2SB:	D5l &pmb 5r &uwb r Ja	3N
C&A5&J wb l &JD JaJ	LC: 2S	t A&m&A5JJwq&apJa	1
t w&JTJ A&r Jc qdmA&r QJa	2S279S0912J14aS a14	t w&wJA&JuwbrJa	S77LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
LrwO	2S091	1F-	1F40	1F4	1F- S	2F06	l l e
LrwO	2SN91	1F4	1F- 1	1F40	1F4	1F7	l l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N- 7F- 1	N- 2F14	N7NF76	N4NFSS	SF	l l e
y w5Mw5r l r	- - 92	1F02	1FN6	2FSS	1FN6	0F4	l l e
y n8neOr 5mb	491	NFNS	NF- 1	NF6-	NF0	1F- 2	l l e
y n8neOr 5mb	- 91	0F71	0F7S	0F- 6	0F7	1F 6	l l e
y n8neOr 5mb	691	0F46	0F- 1	0F6-	0F- 4	1F7S	l l e
y n8neOr 5mb	091	0FS4	0F6N	0F7	0F70	4F76	l l e
y n8neOr 5mb	N91	0F4S	0F2-	0F40	0F70	1F- 0	l l e
u r nOhb Amb	1- S91						ql l
u r nOhb Amb	1- S92						ql l
u Aqkr 8	6S92	1FN6	2F1S	2FS6	2FSS	6F74	l l e
3 %nl l %npm	7192	920FN-	916FN2	971F6	92- F4-		l l e
3 n&wl Amb	7 92	N12F N	N2 F-	NS0F- N	N16F0S	1F4S	l l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4- 91				1S1		E
: qw5OAmb	4- 92				1S1		E
: r & 5Amb	N291	NFSN	NF- 4	NF- 0	NF4S	7F2	l l e
: r & 5Amb	0092	12F66	1SF62	4F00	F7-	47FNS	l l e
: r & 5Amb	0N92	F4S	1SF- 4	NFS0	F74	17F2-	l l e
: A&qn5	2N91	1F22	SF 4	1F11	1FS	17FS7	l l e
: A&gr p	1S091	1F4	1F64	1F01	1F61	6F N	l l e
: A&gr p	1S 91	1F64	1F67	1F62	1F67	SF6S	l l e
: nOAmb	2792	NN7FNN	S1F4N	N- SF7	N0NF- N	2F -	l l e
: &m5&Amb	N691	1F02	1F- 6	1F6S	1F67	- F1-	l l e
: &m5&Amb	NN91	1F6S	1F- 4	1F- 4	1F- 6	2FS0	l l e
: m&mp	7491	9476FS0	956- F2N	9470F27	9- 12FN6		l l e
i r peAmb	1- 91				1S2		E
i r peAmb	1- 92				1S4		E
i %w&Amb	2S791	1F- 0	1F- 0	1F- N	1F- 0	SF2N	l l e
i %w&Amb	2S- 91	1F- -	1F- 2	1F- 6	1F- 4	1F2N	l l e
i A5	11N91	SFS4	9SFS2	SFS2	SFS1	24SF- 0	l l e
i A&w5Amb	4091	NF7S	0FN2	0F64	0F 2	4F71	l l e
Rpw5Amb	27N91	1F47	1F46	1F46	1F4-	1F26	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J14aS a14	t w&WJA8 Ju wb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	- 192	NF74	NF- N	NF- 7	NF4N	1F4N	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S-		E
ZA5q	6692	NF S	F41	NF42	NF 1	- F- 0	l l e
ZAqn5Amb	S91	1F41	1F4N	1F40	1F4-	2F61	l l e
ZAqn5Amb	191	1F- -	1F- S	1F47	1F4	7F 0	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 896Fh1	1- 0h9F96	1- 2hhF88	1- 69SF08	2F24	l l b
cn&Amon%	12171	SF0-	SF81	SF81	SF0h	9F68	l l b
crsenAq	0972	28F89	26F98	26F- 6	20F26	9FS6	l l b
BarAum	1- 971	- 0hF4S	- 88F28	- h0F24	- 88F- 1	2F- S	l l b
BarAum	1- 071	- 00F2S	- 86Fhh	- hhFS-	- 80F04	2F82	l l b
Ber%lAum	h71	1F81	1F86	1F08	1F82	2FS4	l l b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	2FS8	- F16	1F0S	2F- 2	- 2F60	l l b
RaOmAum	1S671	7SF91	1FSh	7SF- 2	SFSh	h84F69	l l b
RaOmAum	11171	1F90	1F44	1F90	1F9-	9FSS	l l b
RalqAum	4- 71	1819SF4-	189h- FS4	1h- - 0F60	186h- F01	- F21	l l b
RalqAum	4471	18880F86	1h6- 1FS2	1h4S6F- 2	1h- S8F4S	1Fh0	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22F- 0	22F64	21F2S	22FS0	- F46	l l b
Robal&	9h72	16F98	10FS0	16FS1	16F99	- F2S	l l b
Rol l er	6- 72	09F9h	06F41	01F22	04F41	- F09	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S9		G
y olmAum	16972				1S6		G
DnOAum	11971				1S9		G
DnOAum	11972				1S4		G
Don	9472	4- 2S4Fh-	4- Sh2FSS	4S611F06	42- S2FhS	- F46	l l b
Don	9672	424- 4F48	422S4F80	4S262F41	416- - Fh2	2F80	l l b
Don	9072	42- - 0F6h	42814F20	4S2- 0F00	410h6F90	- F28	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	89F44	89Fh8	88Fh1	86F00	2F19	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	82F4S	8- F9-	84F6S	8- F91	1F- 1	l l b
LeaO	2S871	84F99	89F90	80F14	89F09	1F92	l l b
LA&EAum	671				h-		G
MagnesAum	2472	6691F91	66S4F88	6- 69FS-	694SF40	2F- 9	l l b
Manganese	9972	1S21F61	1S1SF14	h90FS9	hh6F20	- F46	l l b
Mol%bOenum	h471	12F14	12F29	12F99	12F- 1	1F0-	l l b
Mol%bOenum	h971	1F66	1F04	1FB1	1F0-	4F- 0	l l b
Mol%bOenum	h671	2FB4	2FBS	2Fh-	2FB6	2F20	l l b
Mol%bOenum	h071	1F01	1FB9	1F06	1F00	- FB4	l l b
Mol%bOenum	h871	1F08	1F09	1FB1	1F08	1Fh4	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- - F29	- - F10	- 1F22	- 2F94	- F9-	l l b
PEosI Eorus	- 172	- 62SFh2	- 208F4h	- 496F- S	- 491FhS	4Fh6	l l b
Po&assAum	- h72	9- 01FS-	9- 4SF- 8	9S84Fh6	9269F46	2Fh8	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S2		G
pelenAum	8271	2FSh	1F92	1F9h	1F0-	18FS2	l l b
pelenAum	0072	49FB8	- 0F- 1	4- F66	42F28	1SF91	l l b
pelenAum	0872	hF1h	0Fh1	8F- 0	8F4h	0F60	l l b
pAAqon	2871	2- 6FB4	242Fh4	29SFS2	24- F26	2F01	l l b
pAver	1S071	SF- 0	SF- 0	SF- 6	SF- 0	SF- 6	l l b
pAver	1Sh71	SF- 4	SF- 4	SF- h	SF- 6	hF29	l l b
poOAum	2- 72	22SF4h	22- Fh8	2ShFS-	210FB-	- F9h	l l b
p&on&Aum	8671	101F40	166F04	16hF64	16hF28	1F41	l l b
p&on&Aum	8871	109F- 2	10- F68	108F4S	109FBS	1F- 6	l l b
pulfur	- 471	718SF91	7216F48	7168Fh9	7188F64		l l b
i erbAum	19h71				1S0		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 6	SF- 6	SF- 9	SF- 6	SF69	l l b
i EallAum	2S971	SF- -	SF- 9	SF- 9	SF- 4	- FB2	l l b
i An	11871	1F98	1F62	1F09	1F69	9F- S	l l b
i A&anAum	4071	116F28	12SF- h	124F6S	12SF42	- F46	l l b
UranAum	2- 871	- F29	- F- -	- F42	- F- -	2F98	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	9hFS1	98F49	99F8-	90F06	2Fh4	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S8		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 21F8h	- 21F92	- S2F04	- 19F- h	- F40	l l b
ZAqonAum	hS71	6F11	6FSh	6F- 9	6F18	2F- 9	l l b
ZAqonAum	h171	6F11	6FS2	6FS1	6FS9	SF86	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 6S4F14	19S61F84	1- 619F80	14Sh- Fh9	9Fh9	l l b
cn&Amon%	12171	SF82	SF08	SF08	SF8S	- F2-	l l b
crsenAq	0972	29FhS	- 1F49	29Fh1	20F09	11F9-	l l b
BarAum	1- 971	- h- F- 6	- 6hF26	- h2F96	- 89FS6	- F96	l l b
BarAum	1- 071	- hSF68	- 04F19	4SSF8-	- 88F96	- F40	l l b
Ber%lAum	h71	1F01	1F04	1F0S	1F02	1F11	l l b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	2FS9	2FS9	2F14	2FS8	2F49	l l b
RaOmAum	1S671	1F29	1F82	7SF42	SF88	1- 1F61	l l b
RaOmAum	11171	1F9S	1F46	1F48	1F48	1F- 6	l l b
RalqAum	4- 71	1821SF44	184S- F01	18102F90	18262F24	SF68	l l b
RalqAum	4471	1hS- 6F8S	18614F40	18689F09	1800hFSS	1F2S	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22FS4	24FS4	21F99	22F94	9F89	l l b
Robal&	9h72	16F84	18F02	16F61	10F- h	6F68	l l b
Rol l er	6- 72	02Fh1	81F42	0- F96	09Fh6	6F2-	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1Sh		G
y olmAum	16972				1S9		G
DnOAum	11971				1Sh		G
DnOAum	11972				1S-		G
Don	9472	4126- F- -	46S82F9-	418S0F44	4- S91F1S	6F1-	l l b
Don	9672	41826F18	49- 11F8S	41- h4F- h	42844F12	9FS1	l l b
Don	9072	4268- F49	46- - 2F1h	41614F91	4- 94- F- 8	9F68	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	86F96	89F96	80F60	86F6S	1F22	l l b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	8- F4h	82F86	84F99	8- F6-	1FS2	I I b
LeaO	2S871	89F01	84F4-	89F0h	89F- 1	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	694- F88	02S8F6-	649hF2h	60- 0F20	6FSh	I I b
Manganese	9972	h89F81	1S8- F81	hhSFh-	1S2SF18	9F41	I I b
Mol%bOenum	h471	11F04	11F49	11Fh6	11F02	2F21	I I b
Mol%bOenum	h971	1Fh-	1F02	1F00	1F81	6F12	I I b
Mol%bOenum	h671	2F09	2F01	2F89	2F00	2F64	I I b
Mol%bOenum	h071	1F84	1F04	1F66	1F09	9F19	I I b
Mol%bOenum	h871	1F06	1F09	1F00	1F06	SF99	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2F46	- 6F- 8	- 2F60	- - F8-	6F92	I I b
PEosI Eorus	- 172	- 4h4F49	- 8- 4F44	- - 48F96	- 99hF19	0FS1	I I b
Po&assAum	- h72	91h0F8h	9084F64	9169F- 0	9- 82F6-	6F48	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1Sh		G
pqanOAum	4972				1S2		G
pelenAum	8271	1F48	1F9h	1F06	1F61	8F88	I I b
pelenAum	0072	- 9F- 8	48F6S	4SF8-	41F61	19Fh0	I I b
pelenAum	0872	6F82	hFh2	6F61	0F08	2- F8-	I I b
pAAqon	2871	2- 9F8-	241F6S	2- SF04	2- 6FS9	2F- S	I I b
pAver	1S071	SF- 0	SF- 4	SF- 0	SF- 6	9F- 2	I I b
pAver	1Sh71	SF41	SF- 0	SF41	SF4S	6F- 8	I I b
poOAum	2- 72	21- F2S	249F89	212FS9	22- F0S	8F98	I I b
p&ona&um	8671	16- F61	198F16	162F9S	161F4-	1F08	I I b
p&ona&um	8871	101FS4	166F20	10SF21	16hF10	1F91	I I b
pulfur	- 471	7928F- h	762SFhS	78- hF0h	766- FS-		I I b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 0	SF- 2	SF41	SF- 0	12F28	I I b
i EallAum	2S971	SF- 0	SF- 9	SF- 8	SF- 0	4F41	I I b
i An	11871	1F01	1F9h	1F6h	1F60	- F80	I I b
i A&anAum	4071	119F21	118F8S	116F61	116F80	1F99	I I b
UranAum	2- 871	- F24	- F2h	- F- 0	- F- S	2FS1	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	96F8-	6- F14	98F- 2	9hF4-	9F94	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 1- F0S	- - 8Fh4	- 12F89	- 21F8-	4F61	l l b
ZAqonAum	hS71	9F0h	9F8-	6FSS	9F80	1F89	l l b
ZAqonAum	h171	6F11	9FhS	6F1-	6FS9	2FS8	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARuminium	23O2	2944.- 4	2974.73	- 1- - .36	- O1O.J9	- .74	ppb
Antimony	12101	O.16	O.1J	O.17	O.16	3.J9	ppb
Arwenic	37O2	6.43	7.3O	6.- 6	6.1J	6.34	ppb
Bsrium	1- 701	34.63	3J.4J	3J.3J	33.- 1	2.96	ppb
Bsrium	1- 301	37.J4	39.39	J1.O6	3J.9O	- .47	ppb
BeryRRum	901	O- 6	O- 2	O.4O	O- 6	1O.J1	ppb
Biwmuth	2O901				1OJ		%
Biwmuth	2O9O2				1O4		%
Bromine	J101						cpw
Csdmium	1OJ01	O- 3	O.2-	O.23	O.29	24.46	ppb
Csdmium	1O601	04.7O	02.12	04.24	0- .62		ppb
Csdmium	11101	O.2J	O- 6	O- 6	O- -	14.- -	ppb
CsRium	4- 01	- 6O6.99	- 912.46	- J77.J2	- 391.36	4.29	ppb
CsRium	4401	- 6OJ.61	- J93.J9	- JJ1.O3	- 397.J6	4.2J	ppb
Csrbon	1201						cpw
Csrbon	12O2						cpw
ChRorine	- 701						cpw
ChRorine	- 7O2						cpw
Chromium	72O2	4.3J	4.67	4.J6	4.36	2.2J	ppb
CobsRR	79O2	- .6O	- .76	- .J3	- .63	4.79	ppb
Copper	6- O2	17.J-	17.J9	16.6J	16.14	2.94	ppb
Dywprowium	1760 1						cpw
Dywprowium	1760 2						cpw
Erbium	1640 1						cpw
Erbium	1640 2						cpw
GsdoRRnium	16O01						cpw
GsdoRRnium	16O02						cpw
HoRRnium	1670 1				1O9		%
HoRRnium	1670 2				1O4		%
Indium	1170 1				1OJ		%
Indium	1170 2				1O-		%
Iron	74O2	J726.2-	J- 1O.77	J9JJ.- -	J6OJ.- 3	4.O2	ppb
Iron	76O2	J9J- .32	J9OJ.24	9- 37.3O	9OJ9.22	2.36	ppb
Iron	73O2	J794.- 2	J2J- .41	J92J.- J	J6O2.O4	- .37	ppb
Krypton	J- 01						cpw
Lesd	2O601	13.- 6	1J.13	1J.3J	1J.1O	- .94	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.34	13.1-	13.94	13.23	- .76	ppb
Lesd	2OJ01	13.1-	13.6J	1J.2O	13.63	- .O4	ppb
Lithium	601				99		%
Msgnewium	24O2	1- 92.93	1- J6.79	17OJ.6J	1429.41	4.J1	ppb
Msngsnewe	77O2	216.O2	21- .O4	224.1O	213.32	2.6-	ppb
MoRybdenum	9401	2.61	2.62	2.62	2.62	O.26	ppb
MoRybdenum	9701	O.- 7	O.41	O.- 9	O.- J	J.11	ppb
MoRybdenum	9601	O.6O	O.77	O.6O	O.7J	4.41	ppb
MoRybdenum	9301	O.- 9	O.4J	O.4-	O.4-	1O.1-	ppb
MoRybdenum	9J01	O.- 9	O.- 9	O.4-	O.4O	4.32	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	6.39	3.O-	3.46	3.O9	4.33	ppb
8howphoruw	- 102	364.3O	314.O4	J31.94	3J- .76	1O.29	ppb
8otswwium	- 902	1161.42	1OJ6.22	1222.O4	1176.76	7.JJ	ppb
Rhodium	1O- 01				1OJ		%
Rhodium	1O- 02				1O4		%
Scsndium	4701				1O9		%
Scsndium	4702				1O1		%
SeRenium	J201	O.16	O.O3	O.O7	O.1O	73.42	ppb
SeRenium	3302	4.96	3.3J	6.- -	6.- 6	22.19	ppb
SeRenium	3J02	1.- 6	2.13	- .14	2.22	4O.O6	ppb
SiRcon	2J01	43.1J	49.43	49.J3	4J.J4	2.93	ppb
SiRver	1O301	O.O6	O.OJ	O.O3	O.O3	12.66	ppb
SiRver	1O901	O.OJ	O.O3	O.O6	O.O3	17.19	ppb
Sodium	2- 02	36.16	6J.43	J7.3-	36.39	11.26	ppb
Strontium	J601	- 7.- 9	- 6.- 3	- 6.73	- 6.11	1.34	ppb
Strontium	JJ01	- 4.22	- 7.JJ	- 7.2J	- 7.1-	2.- 9	ppb
SuRur	- 401	021- 9.1-	01462.74	01391.J-	01393.J-		ppb
Terbium	17901				11O		%
Terbium	17902				1O4		%
ThsRium	2O- 01	O.17	O.14	O.1-	O.14	6.49	ppb
ThsRium	2O701	O.14	O.1-	O.14	O.14	7.JO	ppb
Tin	11J01	O.- 1	O.- 2	O.- 4	O.- 2	7.J2	ppb
Titsnium	4301	2- .66	27.- -	26.O1	27.OO	4.J-	ppb
Ursnium	2- J01	O.67	O.66	O.66	O.66	1.OJ	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	12.- 4	12.2O	1- .1O	12.77	- .J9	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1OJ		%
Yttrium	J90l2				1O6		%
Zinc	660l2	63.- 1	67.- 4	31.76	6J.O3	4.63	ppb
Zirconium	9O0l	1.2O	1.26	1.- O	1.27	- .67	ppb
Zirconium	910l	1.11	1.- -	1.41	1.2J	12.O9	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14401.P2	14- - 4.Sy	14y14.0P	14h0- .h6	2.SP	ppm
Aotiu Oo%	12171	1P.6h	24.P-	1P.- S	2S.hy	10.Ph	ppm
Aeaboic	0h72	- 4.S-	- 4.Sh	- h.10	- 4.42	1.Py	ppm
BJeiNu	1- h71	0P- .PP	1S6h.2P	006.- P	P0h.1P	1P.P2	ppm
BJeiNu	1- 071	P- 1.26	1Syy.01	P- S.6P	y2S.hh	16.Ph	ppm
Bbe%wiNu	y71	11.0S	14.yh	11.P1	12.P2	14.41	ppm
Biau NtE	2Sy71				1S1		G
Biau NtE	2Sy72				1S0		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1S.SS	12.yS	1S.S1	1S.y0	1h.2h	ppm
UJdu iNu	1S671	P.h-	12.24	0.PP	y.hh	24.61	ppm
UJdu iNu	11171	11.21	1h.42	11.16	12.6S	1y.42	ppm
UJwiNu	4- 71	1Phy2.P4	2h1hP.P0	1y6S4.S2	2111P.hP	16.04	ppm
UJwiNu	4471	1yh26.h2	2hP00.P4	1yP4P.6-	210h1.SS	16.4h	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	61.PS	62.2S	6h.SS	6- .SS	2.00	ppm
UOmJwv	hy72	11P.- 1	11P.- S	12- .04	12S.11	2.61	ppm
UOppbe	6- 72	126.hh	12h.41	1- S.P4	120.6S	2.2h	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5 emiNu	16471						cpa
5 emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S2		G
MOw iNu	16h72				11S		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S0		G
IeOo	h472	4261h.hS	4- - - P.12	4- yP4.64	4- - 12.0h	1.hP	ppm
IeOo	h672	41Py0.yP	4- S- S.- h	4- y4y.12	42yhy.1h	2.- y	ppm
IeOo	h072	42S- h.44	42P24.P1	440- 2.4y	4- 1y0.hP	- .21	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	yh.16	12S.10	y4.yS	1S- .41	14.S-	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	y1.hh	116.1-	y2.S2	yy.yS	14.S0	ppm
LbJd	2SP71	y- .04	110.y-	y- .2S	1S1.62	1- .yS	ppm
LitEiNu	671				yh		G
g JvobaiNu	2472	664P.0S	60- 6.- 2	606y.0S	601P.24	S.y-	ppm
g JovJobab	hh72	11S4.S2	1Syh.4P	1122.P4	11S0.4h	1.26	ppm
g O%mdboNu	y471	11.42	14.0S	12.16	12.06	1- .4P	ppm
g O%mdboNu	yh71	1.01	2.26	1.6y	1.Py	10.- 4	ppm
g O%mdboNu	y671	2.0P	- .- P	2.0S	2.y6	12.40	ppm
g O%mdboNu	y071	1.hy	2.14	1.6S	1.0P	10.h2	ppm
g O%mdboNu	yP71	1.6P	2.11	1.6-	1.P1	14.0h	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	142.0S	142.0-	146.22	14- .PP	1.41	ppm
I EOapEOaNa	- 172	- h4h.yy	- h10.S2	- 0Sh.y-	- hPy.64	2.P-	ppm
I OtJaaiNu	- y72	h- 66.04	h- 6y.S6	hh60.2S	h4- 4.- -	2.12	ppm
n EOdiNu	1S- 71				yy		G
n EOdiNu	1S- 72				1SP		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S6		G
r bwboiNu	P271	1y.h0	2h.- 0	1y.yS	21.61	1h.S0	ppm
r bwboiNu	0072	h0.SS	4y.S1	6y.h6	hP.h2	10.0S	ppm
r bwboiNu	0P72	2h.14	20.- 2	20.yP	26.P1	h.hh	ppm
r iwcOo	2P71	26S.2y	- - 1.41	262.21	2P4.64	14.2-	ppm
r iwRbe	1S071	P.hh	11.61	P.66	y.61	1P.S0	ppm
r iwRbe	1Sy71	P.hh	11.- 0	P.h-	y.4P	10.21	ppm
r OdiNu	2- 72	26S.0h	261.26	26y.- 2	26- .0P	1.P2	ppm
r teOotiNu	P671	164.- 1	221.1h	101.y2	1Ph.0y	16.61	ppm
r teOotiNu	PP71	101.S4	22P.22	1PS.y6	1y- .41	1h.PS	ppm
r NwNe	- 471	71S62.1y	224S.4h	702- .Py	1h1.46	11yy.6P	ppm
TbemiNu	1hy71				1S2		G
TbemiNu	1hy72				1SP		G
TEJwiNu	2S- 71	P.P-	11.16	P.P4	y.61	1- .y6	ppm
TEJwiNu	2Sh71	P.P0	11.1S	P.y4	y.64	1- .1P	ppm
Tio	11P71	1.y0	2.P6	2.S1	2.2P	21.P2	ppm
TitJoiNu	4071	112.hy	140.16	114.- y	124.01	1h.61	ppm
F eJoiNu	2- P71	- .44	4.- 2	- .44	- .0-	1- .hh	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	161.SP	162.- 1	160.S1	16- .40	1.y1	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1S0		G
YtteiNu	Py72				11y		G
Zioc	6672	42y.- y	42h.y2	4- 6.S0	4- S.46	1.2S	ppm
ZiecOoiNu	yS71	h.06	0.0S	6.1S	6.h2	1h.Ph	ppm
ZiecOoiNu	y171	h.Ph	0.4P	h.y6	6.4-	14.10	ppm

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	16849F- S	148h0F21	16289F92	1h998F81	6F42	I I b
c n&Amon%	12171	SFh-	SF49	SF46	SF49	0F- S	I I b
c rsenAq	0h72	- 1F20	29F29	29Fh1	- SFS-	- F61	I I b
BarAum	1- h71	6S6F86	h22F4S	hS4F89	h44F02	1SFS1	I I b
BarAum	1- 071	618F64	h28F6h	h14F88	hh4FS6	1SF10	I I b
Ber%lAum	971	2F22	2FS4	1F9-	2FS6	0F12	I I b
BAsmu&E	2S971				1S-		G
BAsmu&E	2S972				112		G
BromAne	8171						ql s
RaOmAum	1S871	1F62	1Fh1	1F0-	1F62	6F0h	I I b
RaOmAum	1S671	71F8h	1F48	71F28	7SFhh		I I b
RaOmAum	11171	1F69	1F- 2	1F2-	1F41	10F19	I I b
RalqAum	4- 71	220- hF28	19494FS9	19140F16	2S4h8F84	9F60	I I b
RalqAum	4471	2- 662F0h	2S24- F12	19h94F18	21166F68	1SF- -	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	- SF98	20F69	29Fh8	29F42	hF62	I I b
Robal&	h972	2- F9-	21FSh	2- F41	22F09	6F04	I I b
RoI I er	6- 72	68Fhh	61F20	60FS-	6hF61	hF8h	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S4		G
y olmAum	16h72				11-		G
DnOAum	11h71				1S2		G
DnOAum	11h72				11S		G
Don	h472	h46- 8F0-	48904F84	h261hF- 2	h2S06F- S	hFh1	I I b
Don	h672	h- 6- 1F88	48488F48	h2S90F06	h14S6FS4	hF14	I I b
Don	h072	hh641F11	4096- F08	h2860F2h	h21h0F- 8	0F4h	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S4F0-	89FSh	88F8-	94F2S	9F68	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	98F2-	84F92	8hF11	89F42	8Fh-	l l b
LeaO	2S871	1S1Fh1	80F22	86F88	91F80	9FS9	l l b
LA&EAum	671				96		G
MagnesAum	2472	0h88F96	6684F66	0- 04F9h	0216F19	6Fhh	l l b
Manganese	hh72	1112F99	1SShF- 9	1S6SF22	1Sh9Fh-	hFS8	l l b
Mol%bOenum	9471	1SF82	8F84	9FhS	9F02	1SF- 8	l l b
Mol%bOenum	9h71	2F12	1F01	1F08	1F80	11F80	l l b
Mol%bOenum	9671	2F99	2Fh2	2F6-	2F01	8F96	l l b
Mol%bOenum	9071	2F2h	1F6S	1F00	1F80	10F92	l l b
Mol%bOenum	9871	2FS8	1F06	1F09	1F88	9F48	l l b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	49F00	4- F99	40F04	40F10	6F22	l l b
PEosI Eorus	- 172	- - 19FSS	2886F89	- 194F4-	- 1- - F44	0F1S	l l b
Po&assAum	- 972	4SShF48	- h- - F42	- 862F80	- 8SSFh9	6F- 0	l l b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				112		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S9		G
pelenAum	8271	2F40	1F- 6	1F01	1F84	- SF0h	l l b
pelenAum	0072	4SF- 2	4- Fh4	2hF44	- 6F4-	26FhS	l l b
pelenAum	0872	1SF10	9F- 1	8F18	9F22	1SF84	l l b
pAAqon	2871	- 28F4-	282F80	28- F- -	298F21	8F08	l l b
pAver	1S071	SF40	SF40	SF4S	SF4h	8F69	l l b
pAver	1S971	SFh1	SF41	SF4h	SF4h	1SF08	l l b
poOAum	2- 72	42SF61	- h6F80	4S2F11	- 9- F2S	8F- 4	l l b
p&on&Aum	8671	212FSh	182F81	18hF61	19- F49	8F- 4	l l b
p&on&Aum	8871	21- F10	19SFh0	19SF19	190F98	6F6h	l l b
pulfur	- 471	7100Fh2	71h99F0-	716h8F18	7114hF14		l l b
i erbAum	1h971				1S2		G
i erbAum	1h972				111		G
i EallAum	2S- 71	SFh2	SF- 9	SF4h	SF4h	14F08	l l b
i EallAum	2Sh71	SFhS	SF4-	SF4h	SF46	8F- 8	l l b
i An	11871	1F88	1F62	1Fh0	1F69	9Fhh	l l b
i A&anAum	4071	94F88	82FS9	8SFS-	8hF60	9F- 9	l l b
UranAum	2- 871	4F8h	4F21	4F24	4F4-	8FS6	l l b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	h172	0- F1h	6hF92	01FS4	0SFS-	hF- 1	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				1S9		G
Y&&Aum	8972				122		G
ZAnq	6672	29SFS6	2h4F61	20- Fh2	202F0-	6FhS	l l b
ZAqonAum	9S71	hF19	4Fh6	4Fhh	4F00	0F01	l l b
ZAqonAum	9171	hF- 6	4F46	4F- -	4F02	11F9-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJv onqU	v onqCpt	Rn&w
cRmAAm	2072	146 SU0J	14246U 1	1441JUS2	144- JU44	1U41	l l b
cn&mon%	12171	SUJ 1	SU0	SU05	SU0J	- UJ 1	l l b
crwenAq	0 72	4SU66	- JU-1	- JU64	- 5U2S	- U2-	l l b
BsrAm	1- 71	- J6UJ0	- 54U6	- J5U25	- 5SU20	1US2	l l b
BsrAm	1- 071	- 51U2	- 5JUS0	- 54UJ-	- 54U02	SUJ6	l l b
Ber%RAm	571	2U1S	2U1S	2US5	2U1S	SU-2	l l b
BAmu&E	2S571				1SJ		G
BAmu&E	2S572				1S5		G
BromAe	J171						ql w
v sOmAm	1SJ71	1UJ4	1U50	1UJ0	1UJ5	- U45	l l b
v sOmAm	1S671	2US5	1U44	7SU0-	SU5-	1 JUJ	l l b
v sOmAm	11171	1U6	1U-	1U	1UJ	4U15	l l b
v sRqAm	4- 71	4120 U40	41 2SU14	410 1U16	41 1 U5	SU0	l l b
v sRqAm	4471	42J15U41	4242- UJ	421S- USJ	4244JU62	SUJ	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAe	- 71						ql w
v ERrAe	- 72						ql w
v EromAm	272	- - U14	- 2U22	- - U1	- 2UJ4	1U62	l l b
v obsR&	572	2SU0	2SU1J	2SUJ	2SU4-	1U44	l l b
v ol l er	6- 72	JUSS	0U1S	0U62	0UJ	SU05	l l b
t %wl rowAm	1 671						ql w
t %wl rowAm	1 672						ql w
. rbAm	16471						ql w
. rbAm	16472						ql w
HsOoRAm	16S71						ql w
HsOoRAm	16S72						ql w
hoRmAm	16 71				1S5		G
hoRmAm	16 72				11S		G
DrOAm	11 71				1S		G
DrOAm	11 72				1S0		G
Don	472	4- 20- US	425- U05	4- 650UJ	4- - S2US0	SUJJ	l l b
Don	672	4- S20US6	42 55U-	425- US1	42J - UJ0	SU-	l l b
Don	072	44S22U6	4- 6 4UJ0	42J- 4U60	4- S- U5S	1U4S	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	6JU4	65US1	6JU11	6JU2	SU66	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&:T:i Ame:c qduAeO:9	2S2- 7S0712:1492209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	6 U05	6 U64	64U6-	6 U6	SU56	I I b
LesO	2SJ71	60U1J	66U52	66U54	60US1	SU22	I I b
LA&EAum	671				55		G
y sMnewAum	2472	12 JJU24	12126U21	12154U64	12- S- US-	2US-	I I b
y snMsnewe	72	21- 6U44	2S 5UJ	216 U50	212SU0	2U J	I I b
y oP%bOenum	5471	0UJ	0U56	JU26	JUS2	2U65	I I b
y oP%bOenum	5 71	- U52	- U5	4U2	4US4	4U46	I I b
y oP%bOenum	5671	4U45	4U-4	4U4	4U4-	1U01	I I b
y oP%bOenum	5071	4U16	4U26	4US	4U1	2U 2	I I b
y oP%bOenum	5J71	- U52	- UJ J	4U15	4USS	4U2S	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	44US6	4- U4J	4- U60	4- U0-	SU6J	I I b
8 EowI Eoruw	- 172	- 515U50	- 04JU-1	- 5S0U0	- J JU6J	2U4J	I I b
8 o&swwAum	- 572	J- 5U0J	665U65	5- 5U01	J16U4S	2U-	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S5		G
pqsnOAum	4 71				1S6		G
pqsnOAum	4 72				1S6		G
pe?enAum	J271	2U21	2US1	2U10	2U1-	US6	I I b
pe?enAum	0072	44UJ0	4U24	40U62	4JU51	5UJ6	I I b
pe?enAum	0J72	1SU-S	JU5S	5U-J	5U 2	0U4J	I I b
pA?qon	2J71	2 6US4	2 U6	261U2	2 0U61	1U2-	I I b
pA?ger	1S071	SU4J	SU40	SU45	SU4J	2U50	I I b
pA?ger	1S571	SU S	SU 1	SU46	SU45	U45	I I b
poOAum	2- 72	- 6JU55	- 4U4S	- 6SU	- 61U-1	2US-	I I b
p&ona&Aum	J671	1J2U56	1J1U-	1J5U05	1J4U0S	2U4-	I I b
p&ona&Aum	JJ71	151U25	1J6UJ6	15SU22	1J5U46	1U22	I I b
pu?Pur	- 471	2454U42	26- - U2	2J1 U62	2640UJ	6USJ	I I b
i erbAum	1 571				1S5		G
i erbAum	1 572				111		G
i EsPAum	2S- 71	SU4	SU4	SU46	SU4	1U2J	I I b
i EsPAum	2S 71	SU40	SU44	SU4	SU4	- US	I I b
i A	11J71	1SU60	1SU6-	1SU04	1SU6J	SU	I I b
i A&snAum	4071	141U S	141UJ1	144US0	142U46	SU55	I I b
RrsnAum	2- J71	U6	U4-	U40	U2	2U1-	I I b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	0SU66	65U-J	0SUSJ	0SUS4	SU52	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				11		G
Y&&Aum	J572				121		G
ZAnq	6672	- 02U2-	- 60U2	- 04U52	- 01U40	1US	l l b
ZAqonAum	5S71	2U	2U -	2U06	2U62	4U54	l l b
ZAqonAum	5171	2U0-	2U0S	2U6J	2U01	SU51	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	yy16.S1	y640.11	yhP1.0y	y014.y0	1.P2	ppm
Aotiu Oo%	12171	S.PS	S.06	S.0y	S.0P	2.0P	ppm
Aeaboic	0h72	2y.S-	2P.S6	20.1P	2P.Sy	- .- 1	ppm
BJeiNu	1- h71	204.- P	24y.- 1	240.PP	2h0.1y	h.PS	ppm
BJeiNu	1- 071	20y.1P	24y.14	2hS.yh	2hy.06	6.4P	ppm
Bbe%wiNu	y71	1.61	1.hh	1.h0	1.hP	1.04	ppm
Biau NtE	2Sy71				1S6		G
Biau NtE	2Sy72				1SP		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6h	1.y1	1.y1	1.P2	P.2h	ppm
UJdu iNu	1S671	S.PP	S.2-	1.2-	S.0P	64.61	ppm
UJdu iNu	11171	1.y1	1.60	1.hP	1.02	1S.S6	ppm
UJwiNu	4- 71	4214h.Sy	- P624.61	- PhS1.S0	- y0h6.y2	h.2S	ppm
UJwiNu	4471	42yS- .y1	- y2- 0.yy	4SPhy.P6	41SSS.hy	4.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	22.11	21.h6	21.Sh	21.h0	2.44	ppm
UOmJw	hy72	12.00	12.S1	12.1-	12.- S	- .- -	ppm
UOppbe	6- 72	- 6.6h	- h.yP	- h.y-	- 6.1y	1.1S	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sy		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				1Sh		G
IeOo	h472	- 1SPS.2-	- 11Py.4-	- Sh16.h0	- Sy2P.04	1.10	ppm
IeOo	h672	- SPhP.- 4	- SS6S.yS	2yy40.y4	- S2Py.S6	1.64	ppm
IeOo	h072	2PyyS.6-	2P2- P.11	2P2Ph.S6	2PhS4.6S	1.4P	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	44.62	41.- 4	41.S6	42.- 4	4.6P	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	42.0h	- P.hh	- y.Py	4S.4S	h.- 1	ppm
LbJd	2SP71	4- .4h	- y.yS	4S.yy	41.4h	4.- y	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	121P4.44	12SS- .21	11y2y.- y	12S- y.S1	1.Sy	ppm
g JovJobab	hh72	1- h- .SP	1- 22.44	1- 1S.PP	1- 2P.PS	1.64	ppm
g O%mdboNu	y471	0.62	0.20	0.2S	0.- 6	- .1-	ppm
g O%mdboNu	yh71	4.0-	4.h2	4.- 6	4.h4	4.S-	ppm
g O%mdboNu	y671	4.yP	4.6y	4.0h	4.P1	- .11	ppm
g O%mdboNu	y071	4.y1	4.0y	4.hh	4.0h	- .P6	ppm
g O%mdboNu	yP71	4.0S	4.h1	4.42	4.hh	- .Sy	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	2y.4P	2P.SP	2P.1y	2P.hy	2.01	ppm
I EOapEOeNa	- 172	2y6y.46	26S0.S4	2PP- .0P	2P2S.Sy	6.02	ppm
I OtJaaiNu	- y72	- 6P2.h-	- h- - .P1	- h- P.y6	- hPh.1S	2.- h	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1Sh		G
r cJodiNu	4h71				1S6		G
r cJodiNu	4h72				1S2		G
r bwboiNu	P271	1.P4	1.P2	1.hP	1.04	P.1y	ppm
r bwboiNu	0072	2P.h-	- 4.hh	- 2.hy	- 1.Py	y.62	ppm
r bwboiNu	0P72	1S.S-	P.hy	0.y6	P.P6	11.y6	ppm
r iwcOo	2P71	1PP.SS	106.S6	104.yh	10y.60	4.S-	ppm
r iwRbe	1S071	S.41	S.42	S.4-	S.42	2.4y	ppm
r iwRbe	1Sy71	S.46	S.- P	S.42	S.42	y.yS	ppm
r OdiNu	2- 72	- P1.y4	- 60.P1	- 6S.y4	- 0S.2-	2.Py	ppm
r teOotiNu	P671	12y.1-	11y.0P	11P.01	122.h4	4.6P	ppm
r teOotiNu	PP71	1- 4.hS	124.2P	126.h0	12P.4h	4.10	ppm
r NwNe	- 471	1S06.- 6	20h.41	214.1S	h21.y6	y2.10	ppm
TbemiNu	1hy71				1S6		G
TbemiNu	1hy72				1Sy		G
TEJwiNu	2S- 71	S.- 6	S.2y	S.2y	S.- 1	12.- -	ppm
TEJwiNu	2Sh71	S.- 2	S.- 4	S.- 2	S.- -	- .4S	ppm
Tio	11P71	1.y2	1.6-	1.P1	1.0y	P.2S	ppm
TitJoiNu	4071	124.21	114.21	116.- -	11P.2h	4.46	ppm
F eJoiNu	2- P71	- .P-	- .hS	- .h6	- .6-	4.Py	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	4h.21	44.10	44.4h	44.61	1.21	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				111		G
YtteiNu	Py72				116		G
Zioc	6672	- 0- .1y	- 02.- S	- 0S.2h	- 01.y2	S.41	ppm
ZieccOoiNu	yS71	2.14	2.S4	2.SP	2.SP	2.4-	ppm
ZieccOoiNu	y171	2.2S	1.P6	2.S-	2.S-	P.4-	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14yy- .60	1h1- P.2S	1h14- .Sy	1hSy1.6h	S.h6	ppm
Aotiu Oo%	12171	1.4S	1.2P	1.2S	1.2y	0.y6	ppm
Aeaboic	0h72	60.P4	6y.40	6P.0S	6P.60	1.1y	ppm
BJeiNu	1- h71	4Py.40	422.- 1	4S1.10	4- 0.6h	1S.h4	ppm
BJeiNu	1- 071	4y0.y0	41P.64	4S6.14	44S.y2	11.- S	ppm
Bbe%wiNu	y71	2.- S	2.SS	1.yP	2.1S	P.6-	ppm
Biau NtE	2Sy71				1S4		G
Biau NtE	2Sy72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.64	2.S2	2.4h	2.- 0	1- .- y	ppm
UJdu iNu	1S671	S.- y	1.1h	S.0-	S.06	hS.S2	ppm
UJdu iNu	11171	- .1-	2.0-	2.- y	2.0h	1- .4-	ppm
UJwiNu	4- 71	106- y.- -	14h0h.2y	1- y6P.6y	1h- y4.4-	12.0P	ppm
UJwiNu	4471	1P21h.hP	14044.1P	14- 6S.02	1h00- .hS	1- .46	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOaiob	- h71						cpa
UEwOaiob	- h72						cpa
UEeOu iNu	h272	21.y1	22.S-	21.01	21.PP	S.0-	ppm
UOmJw	hy72	1- .- 4	1- .P2	1- .- -	1- .hS	2.S6	ppm
UOppbe	6- 72	40.00	4P.1-	4P.1P	4P.S2	S.40	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5 emiNu	16471						cpa
5 emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S4		G
MOw iNu	16h72				1S0		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S-		G
IeOo	h472	- hS1y.hh	- h61h.2h	- h1- 4.- y	- h2h6.4S	S.yS	ppm
IeOo	h672	- 460S.6P	- hSy4.y0	- - y1S.P0	- 4hhP.P4	1.04	ppm
IeOo	h072	- 21h6.yP	- 266h.0P	- 2- 1h.- S	- 2- 0y.- h	S.PS	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21- .P1	1P6.- 0	106.P-	1y2.- 4	y.yP	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	2S- .00	10- .0y	10- .h4	1P- .0S	y.46	ppm
LbJd	2SP71	21y.h1	1P4.Py	1P1.yh	1yh.4h	1S.6y	ppm
LitEiNu	671				y0		G
g JvobaiNu	2472	hy26.Ph	hy10.0h	hPS- .6S	hPP2.0-	1.10	ppm
g JovJobab	hh72	12P- .h-	12y2.1y	1204.SS	12P- .24	S.01	ppm
g O%mdboNu	y471	y.SS	0.60	6.06	0.P1	14.46	ppm
g O%mdboNu	yh71	- .y0	- .1S	- .S1	- .- 6	1h.04	ppm
g O%mdboNu	y671	4.4S	- .4h	- .- 6	- .04	1h.- 6	ppm
g O%mdboNu	y071	- .h6	- .- y	- .S1	- .- 2	P.h1	ppm
g O%mdboNu	yP71	- .01	- .24	- .1-	- .- 6	y.S6	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.h2	20.6-	20.2P	20.4P	S.60	ppm
I EOapEOeNa	- 172	266h.4S	2P1S.hP	26- 6.h1	20S4.16	- .4h	ppm
I OtJaaiNu	- y72	hy41.6-	6S2P.1y	6S4S.61	6SS- .4P	S.yS	ppm
n EOdiNu	1S- 71				1S1		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S-		G
r bwboiNu	P271	1.46	S.01	1.14	1.1S	- 4.20	ppm
r bwboiNu	0072	46.4y	40.4-	44.4-	46.12	- .- -	ppm
r bwboiNu	0P72	P.20	6.00	0.2S	0.41	1S.46	ppm
r iwcOo	2P71	2Ph.4-	2- 1.00	22S.h2	24h.y1	14.11	ppm
r iwRbe	1S071	1.- 6	1.14	1.12	1.21	11.S-	ppm
r iwRbe	1Sy71	1.- 4	1.1y	1.12	1.21	P.yy	ppm
r OdiNu	2- 72	220.y1	2- 2.y-	2- 2.01	2- 1.1P	1.2-	ppm
r teOotiNu	P671	120.P0	1S6.24	1S1.- 0	111.P-	12.62	ppm
r teOotiNu	PP71	1- 1.62	11S.hS	1Sh.41	11h.Ph	12.SS	ppm
r NwNe	- 471	12hh.40	71S02.14	71h10.PS	7444.P2		ppm
TbemiNu	1hy71				1Sh		G
TbemiNu	1hy72				1S6		G
TEJwiNu	2S- 71	S.h2	S.40	S.40	S.4y	6.S2	ppm
TEJwiNu	2Sh71	S.h-	S.46	S.46	S.4P	P.26	ppm
Tio	11P71	0.2y	6.- -	6.Sy	6.h0	y.62	ppm
TitJoiNu	4071	221.41	1P- .60	104.22	1y- .1S	12.y-	ppm
F eJoiNu	2- P71	- .64	- .16	- .Sy	- .- S	y.2S	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	62.h0	6- .Sy	62.- h	62.60	S.61	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				116		G
Zioc	6672	- hy.SP	- 6h.02	- 6h.- P	- 6- .- y	1.S-	ppm
ZiecOoiNu	yS71	- .2h	2.0P	2.hP	2.P0	12.Sh	ppm
ZiecOoiNu	y171	- .2P	2.60	2.02	2.Py	11.0y	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149 J9Ja	&wTwFd8 :uwb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1S602U2-	1SJ0 U6-	1S606U0S	1S642UJ2	SUJ2	DDe
q5Tb n5%	12171	SU0	SUa2	SU 0	SU J	UJ1	DDe
qpl r 5cd	0J72	J U6	JaU2S	J U06	J Ua4	SUJa	DDe
Bwpcmb	1- J71	206UJ-	2 2U26	2 6USS6	2 1UJJ	1U04	DDe
Bwpcmb	1- 071	20- USS1	2 JU0J	2 1U 1	2 SU1a	2UJ-	DDe
Br p%8cmb	a71	1UJa	1U4-	1U4J	1U4-	2U2a	DDe
Bdb mTE	2Sa71				1S		G
Bdb mTE	2Sa72				1S6		G
Bpmb d5r	171						dDl
v wob cmb	1S 71	2USS0	2USS1	2USS6	2USSJ	1U62	DDe
v wob cmb	1S671	SU2S	7SU20	1U0-	SUJJ	1 aUSS0	DDe
v wob cmb	11171	1Ua	2US-	1Uaa	2USSS	1U22	DDe
v w8dcmb	4- 71	aJ- 6UJJ	a466U 1	a6 JUSS0	aJ62U 1	1U10	DDe
v w8dcmb	4471	1SSS- U4	aa1SUa2	1S2- UJ-	1SSJSUa	1U6	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- J71						dDl
v E8hpd5r	- J72						dDl
v Epmb cmb	J272	16UJ4	16UJ-	16UJS	16UJ2	SU14	DDe
v new8T	Ja72	aUaS	aU40	aU6a	aU6a	2U2S	DDe
v nDDr p	6- 72	- aU -	- aUaa	- aUa2	- aUa1	SU1a	DDe
&%Dpnl cmb	1J671						dDl
&%Dpnl cmb	1J672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16J71				1Sa		G
h n8b cmb	16J72				1S0		G
t5ocmb	11J71				1S		G
t5ocmb	11J72				1S4		G
tpn5	J472	26- 44U 6	26Sa1UJ0	26J0SU41	26- - JUJJ	SUa1	DDe
tpn5	J672	26- 22U4S	2JJ6aUSS	26- - - U2J	26S04U	1U6	DDe
tpn5	J072	242 JU16	24S1JUJ2	24- SU24	24226Ua1	SU0	DDe
Kp%DTn5	- 71						dDl
Lr wo	2S671	1J6U61	1JaU26	162U14	1JaUJ4	1U04	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149 J9Ja	&wTwFd8 :uwb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S071	1J- U0	1J- U11	1J6UJ	1J4UJ2	1U1	DDe
Lr wo	2S 71	16- UJS	16JUa1	166UJ4	16JU2J	SUa-	DDe
LdEcmb	671				1SS		G
y wW5r l cmb	2472	422SU2	41J- UJ	41 1UJS	41 JU14	SUJS	DDe
y w5Mw5r l r	JJ72	4SUaa	2aU01	4SU2S	- 6Ua6	SU0J	DDe
y n8%eor 5mb	a471	4U44	4UJ0	4UJ4	4UJ2	1UJ2	DDe
y n8%eor 5mb	aJ71	1Ua6	2USS	1Ua	1Ua	SUaa	DDe
y n8%eor 5mb	a671	2UJ J	2UJ2	2U41	2UJ6	2US-	DDe
y n8%eor 5mb	a071	2U10	2U14	2USJ	2U12	- US-	DDe
y n8%eor 5mb	a 71	2USJ	1Ua6	2US	2US-	- US	DDe
u r no%b cmb	1JS71						dDl
u r no%b cmb	1JS72						dDl
u cdkr 8	6S72	21U1J	2SU2	1aUaS	2SU62	- U1J	DDe
NEnl DEnpm	- 172	1J4aUJS	1641Ua2	1J11U4S	1J60U61	4U2	DDe
NnTwl cmb	- a72	- J1- UJ J	- 4aSU22	- 410UaS	- 40- U2	1U4-	DDe
CEnocmb	1S- 71				1S		G
CEnocmb	1S- 72				1S6		G
l dw5ocmb	4J71				1Sa		G
l dw5ocmb	4J72				1S2		G
l r 8 5cmb	271	1US1	SU-	SUJ6	SUJS	2 U1S	DDe
l r 8 5cmb	0072	41UJa	4SUSS	64U0S	4 U06	2 UJ J	DDe
l r 8 5cmb	0 72	6USJ	aU6J	aU12	U20	2- U4	DDe
l c8dn5	2 71	21SU1	2SaUa4	21- U04	211U2a	1US1	DDe
l c8gr p	1S071	SU0J	SU6a	SU06	SU04	JUS	DDe
l c8gr p	1Sa71	SU0-	SU02	SU02	SU02	SU1	DDe
l nocmb	2- 72	2- 2UJ2	2- 0U6J	241U61	2- 0U1a	1Ua6	DDe
l Tpm5Tcmb	671	6- UJS	64UJa	6JUa0	64UJJ	2US	DDe
l Tpm5Tcmb	71	64U6S	64USa	64UaS	64UJ-	SU6-	DDe
l m8mp	- 471	72Sa- U01	72- 6- UJ0	72S- U12	7216JU1-		DDe
Ar pecmb	1Ja71				1Sa		G
Ar pecmb	1Ja72				1S0		G
AEw8cmb	2S- 71	SUJ-	SUJ4	SUJJ	SUJ4	- U60	DDe
AEw8cmb	2SJ71	SUJ4	SUJJ	SUJ	SUJ6	JUJ-	DDe
Ac5	11 71	- UJS	- UJ	- UJ	- UJJ	1UJ6	DDe
AcTw5cmb	4071	121USS	116UJ-	12SUJS	11aU44	2U12	DDe
Rpw5cmb	2- 71	2USS2	2USJ	2US6	2USS4	1U22	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9Ja	&wTwFd8 :u wb r :9	S42q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J172	4- U1	42Ua2	4- U46	4- U1	SU62	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	a71				11-		G
YTTpcmb	a72				11J		G
Zc5d	6672	24 U0S	240U6a	24aUSJ	24 U4	SU2	DDe
Zqcdn5cmb	aS71	1UJ0	1U S	1U0J	1U01	0U12	DDe
Zqcdn5cmb	a171	1U0S	1U6S	1U0J	1U6	4UJa	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :uwb r :9	S4- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1- 660UJ1	1- 6 2U6	1- 0J1U42	1- 01- UJ6	SU44	DDe
q5Tb n5%	12171	SU1	SU1	SU6	SU-	JUSS	DDe
qpl r 5cd	0a72	12U14	12U11	11UaS	11U2	- US4	DDe
Bwpcmb	1- a71	- 21U0	- 2SU12	- 20UaS	- 2- U2S	1U1	DDe
Bwpcmb	1- 071	- 1JU2J	- 2- U2-	- 2aU6	- 22U2	1U1-	DDe
Br p%8cmb	71	1UJ	2USa	1UJ	1U0	4U14	DDe
Bdb mTE	2S 71				1SJ		G
Bdb mTE	2S 72				1S4		G
Bpmb d5r	J171						dDl
v wob cmb	1SJ71	1UaS	SU4	1US6	1U10	2aU4S	DDe
v wob cmb	1S671	7SU26	72U21	71U0-	71U4S		DDe
v wob cmb	11171	1US1	SUJJ	1USS	SU6	0Ua2	DDe
v w8dcmb	4- 71	144SaUa-	1461 U20	14641U0	14aaaUa	SUS	DDe
v w8dcmb	4471	14 62U44	1a1- 0U41	14 a0U10	1aS1 US1	SU6J	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- a71						dDl
v E8hpd5r	- a72						dDl
v Epmb cmb	a272	1aU40	14UJ	1aUJ6	1aU41	- U10	DDe
v new8T	a 72	U44	JU-	U62	UJ-	- UJS	DDe
v nDDr p	6- 72	2- U40	2- UaJ	2- U61	2- Uaa	SUJ-	DDe
&%Dpnl cmb	1a671						dDl
&%Dpnl cmb	1a672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16a71				1SJ		G
h n8b cmb	16a72				1S-		G
t5ocmb	11a71				1S6		G
t5ocmb	11a72				1SS		G
tpn5	a472	21 a U1a	2146 UJ2	221J6Uaa	21J01UJ4	1U60	DDe
tpn5	a672	21424U00	21Sa0UJJ	21024U0	214S2Ua4	1Ua6	DDe
tpn5	a072	1 11U2J	2S14 US0	2S- 04U6S	2S144UJ	1U1a	DDe
Kp%DTn5	J- 71						dDl
Lr wo	2S671	a U41	aJU-	aJU-S	aJU0S	1USa	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&c8mTcn5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFc8 :u wb r :9	S4- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5cT
Lr wo	2S071	a6U0	a4U2-	a6U2J	aaU00	2U4-	DDe
Lr wo	2SJ71	a0U -	a6U2	a0UJ-	a0U6	1Ua0	DDe
LcTEcmb	671						G
y wW5r l cmb	2472	4aS2USJ	4aS6U21	4aa4U0S	4a21USS	SU6a	DDe
y w5Mw5r l r	aa72	J4- U4	J4SU4-	JaSU a	J4aU11	SU6-	DDe
y n8%eor 5mb	471	0US-	0U42	0UJ J	0U2J	2U a	DDe
y n8%eor 5mb	a71	SUJ S	SUJ 1	SUJ-	SUJ 2	1UJ 6	DDe
y n8%eor 5mb	671	1Ua1	1Ua2	1UaJ	1Ua-	2UJ 1	DDe
y n8%eor 5mb	071	SU00	SU S	1US1	SUJ	1- UJ 0	DDe
y n8%eor 5mb	J71	SUJ 1	SUJ 2	SUJ 1	SUJ 1	SUa6	DDe
u r no%b cmb	1aS71						dDl
u r no%b cmb	1aS72						dDl
u cdkr 8	6S72	1aUJ 1	1aU4-	14UJ	1aUSa	- U0J	DDe
NEnl DEnpm	- 172	1421UJa	16S6U6	1614U6a	1a40Ua6	0USS0	DDe
NnTwl cmb	- 72	4142UJ J	41a2UJ-	422SUJS	4102USS1	1USS2	DDe
CEnocmb	1S- 71				1S0		G
CEnocmb	1S- 72				1S-		G
l dw5ocmb	4a71				1S6		G
l dw5ocmb	4a72				J		G
l r 8 5cmb	J271	1USS	1Ua4	SU00	1U1S	- aUaa	DDe
l r 8 5cmb	0072	4 U40	a2UJ 6	4SU22	40UJ a	1- U4S	DDe
l r 8 5cmb	0J72	11UJ	1SU1-	U01	1SUaJ	1SU a	DDe
l c8dn5	2J71	246U40	2aSUJ 6	24JUa-	24JU4a	SU0J	DDe
l c8gr p	1S071	SU26	SU22	SU24	SU24	JUaS	DDe
l c8gr p	1S 71	SU26	SU22	SU2a	SU24	0UJ -	DDe
l nocmb	2- 72	11SUJ S	1SaUJJ	11SUaJ	1SJU 2	2U42	DDe
l Tpn5Tcmb	J671	UJ	1S1UJ 1	1SSU12	1SSU44	SU06	DDe
l Tpn5Tcmb	JJ71	1SaU1S	1S4U J	1S- UJ	1S4U66	SU64	DDe
l m8mp	- 471	71J2 UaS	716S6U04	710J6U10	7104SUJS		DDe
Ar pecmb	1a 71				1SJ		G
Ar pecmb	1a 72				1S-		G
AEw8cmb	2S- 71	SU2J	SU2J	SUJ 2	SU2	0USJ	DDe
AEw8cmb	2Sa71	SUJ 1	SU20	SUJ S	SU2	6U1a	DDe
Ac5	11J71	1U4a	1U44	1UJ	1U4-	2UJ	DDe
AcTw5cmb	4071	14SUSS	141U S	141UJ0	141U26	SU00	DDe
Rpw5cmb	2- J71	2U2S	2U1a	2U22	2U1	1U6	DDe

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	a172	- a00	- 4la0	- 6U20	- ala4	2U46	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	J 71				11-		G
YTTpcmb	J 72				111		G
Zc5d	6672	14aUS6	14 U1S	14 US2	140U0-	1la6	DDe
Zcpdn5cmb	S71	- U0-	- UJS	- UJ4	- U0	1laS	DDe
Zcpdn5cmb	171	- U6-	- Ua	- UJS	- UJS	4U2a	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	096hF42	096SF-6	60- SFS8	0286F62	6F61	l l b
cn&Amon%	12171	SF4S	SF4-	SF42	SF42	- F86	l l b
crsenAq	0972	11F2h	12F06	1SF0-	11F6S	hFS4	l l b
BarAum	1- 971	169F8S	164F11	16hF44	166F49	1F64	l l b
BarAum	1- 071	160F-4	164F0-	10SFS-	160F-0	1F98	l l b
Ber%lAum	h71	1FS0	1F19	1FSh	1F1S	- F48	l l b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				112		G
BromAne	8171						ql s
RaOmAum	1S871	SFh-	SF90	SF6-	SF01	20F28	l l b
RaOmAum	1S671	72FS8	7-Fh2	7-F2-	7-FS8		l l b
RaOmAum	11171	SF90	SF9-	SF96	SF99	- F6h	l l b
RalqAum	4- 71	4821FS2	4861F44	48h0F21	489hF8h	SF08	l l b
RalqAum	4471	4hhSF2-	9129F6h	9S26F1S	9S40F-4	1F-h	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	10F22	10F16	19F2-	16F94	6F89	l l b
Robal&	9h72	6F68	6F6h	9Fh-	6F4-	6F06	l l b
Rol l er	6- 72	1- Fh6	14F4-	1- FS6	1- F82	9FS9	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				11S		G
DnOAum	11971				1S8		G
DnOAum	11972				1S6		G
Don	9472	14S92FhS	14S1- F-2	12912F1S	1- 926F11	6F4h	l l b
Don	9672	144- SF20	140S2F12	1- - 99F01	14162F0S	9FS-	l l b
Don	9072	1- 8S4F46	1- 818F6h	12- 04F81	1- - - 2F69	6F22	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	49F16	46F90	49F8S	49F84	1F94	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4- F89	44F5-	44F2S	44F52	SF4S	l l b
LeaO	2S871	44F49	49F4h	44Fh0	44Fh0	1F16	l l b
LA&EAum	671				h6		G
MagnesAum	2472	1h12F4h	1h26F86	1014F6h	1891F- 9	6F4S	l l b
Manganese	9972	401FhS	40- F98	421F88	499F08	6F44	l l b
Mol%bOenum	h471	- F89	4F12	4F22	4F56	4F0-	l l b
Mol%bOenum	h971	1F59	1F54	1F10	1F58	6F89	l l b
Mol%bOenum	h671	1F- -	1F44	1F42	1F4S	4F41	l l b
Mol%bOenum	h071	1F19	1F1-	1F50	1F11	- F62	l l b
Mol%bOenum	h871	1F29	1F12	1F26	1F21	6F42	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	12F- 6	12F44	1SF89	11F88	0F94	l l b
PEosI Eorus	- 172	980F- 6	984F91	486Fh8	992Fh9	1SF- 4	l l b
Po&assAum	- h72	189- F02	1848F04	16S4F10	1068F88	8F50	l l b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S8		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S4		G
pelenAum	8271	SFh4	SF- 1	SF92	SF9h	9- F68	l l b
pelenAum	0072	- 0F40	- 9F66	- hF2S	- 0F44	4F02	l l b
pelenAum	0872	9F8-	6Fhh	4F- S	9F01	2- F62	l l b
pAAqon	2871	11hF16	11hF49	12SF14	11hF98	SF42	l l b
pAver	1S071	SF1h	SF10	SF21	SF1h	1SF- 2	l l b
pAver	1Sh71	SF1h	SF2S	SF22	SF2S	6F14	l l b
poOAum	2- 72	8hF2h	h9F- 2	06F00	80F1-	1SF86	l l b
p&ona&um	8671	4SF02	42F80	42F42	42F5S	2F0S	l l b
p&ona&um	8871	41F4-	42F9-	42F64	42F2S	1F98	l l b
pulfur	- 471	72964F6-	72401Fh2	72- 09F6h	7240SF09		l l b
i erbAum	19h71				1S6		G
i erbAum	19h72				1Sh		G
i EallAum	2S- 71	SF1h	SF22	SF21	SF21	6F2h	l l b
i EallAum	2S971	SF2S	SF2S	SF21	SF21	2F48	l l b
i An	11871	2F9S	2F46	2F9-	2F9S	1F4h	l l b
i A&anAum	4071	h8F26	1S1F2S	1S- F- 4	1SSFh-	2F9-	l l b
UranAum	2- 871	1F42	1F40	1F4S	1F4-	2F94	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	26F6-	20F- 1	24F21	26FS9	6F29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				112		G
Y&&Aum	8h72				116		G
ZAnq	6672	60F49	0SF96	62F48	66FB-	6F1S	l l b
ZAqonAum	hS71	1F0-	1F08	1FB6	1F0h	- F62	l l b
ZAqonAum	h171	1F66	1FB1	1F66	1F01	4Fn-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	19194F96	1426hF10	141h0F00	1494SF9S	- F60	I I b
c n&Amon%	12171	SF46	SF91	SF40	SF48	9F0h	I I b
c rsenAq	0972	11F48	11F12	1SF86	11F19	2F0h	I I b
BarAum	1- 971	- S- F4S	2h0F80	2h8Fh1	- SSFS6	SFh8	I I b
BarAum	1- 071	- S2F62	- S1F11	- S4F00	- S2F8-	SF61	I I b
Ber%lAum	h71	2F1-	2F12	2F1-	2F1-	SF26	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F48	1F92	1Fh4	1F69	19F1h	I I b
RaOmAum	1S671	SF6S	7SFS9	7SF91	SFS1	922- FSS	I I b
RaOmAum	11171	1F- 9	1F41	1F- -	1F- 6	- F28	I I b
RalqAum	4- 71	88h6F68	88- 0F61	h1- 1F4h	8h99F26	1F04	I I b
RalqAum	4471	h22- F4S	h14hF21	h694F4S	h- 42F- 4	2Fh2	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	18F2-	10Fh2	10FS2	10F02	- F96	I I b
Robal&	9h72	12F6S	11F84	11F02	12FS6	- Fh4	I I b
Rol I er	6- 72	28F98	20F9-	20F- 8	20F8-	2F- 4	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S9		G
DnOAum	11971				1S6		G
DnOAum	11972				1S2		G
Don	9472	- 4h96F19	- - 0h2F64	- - 119Fh1	- - h94FhS	2F04	I I b
Don	9672	- 9129FhS	- - - SSF18	- 282SF1-	- - 048F04	- F6S	I I b
Don	9072	- 2h89FhS	- 1109F- 4	- 11ShF60	- 1096Fh0	- F- 9	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	6- FSS	61F6h	64F90	6- FSh	2F2h	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	9hF80	98F0h	61F-9	6SFSS	2F14	l l b
LeaO	2S871	61Fh6	6SF6S	62F00	61F08	1F00	l l b
LA&EAum	671				hh		G
MagnesAum	2472	496SF86	4420F9S	44S0FS1	4469F12	1F80	l l b
Manganese	9972	h8hFS1	h9SFh9	h-4Fhh	h98F-1	2FhS	l l b
Mol%bOenum	h471	0F-6	0F-6	0F2h	0F-4	SF9S	l l b
Mol%bOenum	h971	1F8h	2FSS	1Fh1	1Fh4	-FSS	l l b
Mol%bOenum	h671	2F98	2F96	2F40	2F94	2F9S	l l b
Mol%bOenum	h071	1F89	2F12	2F14	2FS4	0Fh0	l l b
Mol%bOenum	h871	1Fh-	2FSS	2FS9	1Fhh	-FS9	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	-6F01	-4F14	- -F0S	-4F89	4F60	l l b
PEosI Eorus	-172	1696F8-	1496F-S	1900F06	196-F6-	6F46	l l b
Po&assAum	-h72	6128F90	909SF06	90-0F68	9802F-4	-F08	l l b
5 EoOAum	1S-71				1S0		G
5 EoOAum	1S-72				1S4		G
pqanOAum	4971				1S0		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F-4	1F4h	1F0S	1F91	12FS8	l l b
pelenAum	0072	90F18	91F1-	6SF86	96F-h	8F02	l l b
pelenAum	0872	1-F09	1SF-9	hF86	11F-2	18F01	l l b
pAAqon	2871	180F60	186F94	1h4Fh6	18hF02	2F41	l l b
pAver	1S071	SF22	SF24	SF26	SF24	1SF2-	l l b
pAver	1Sh71	SF2-	SF20	SF20	SF26	8FS1	l l b
poOAum	2-72	11SF6-	1S4F-9	1S9F0-	1S6FhS	-FSh	l l b
p&ona&um	8671	91F2-	48F6h	9SF00	9SF2-	2F6h	l l b
p&ona&um	8871	9SF4h	48F6h	9SF01	4hFh0	2F21	l l b
pulfur	-471	72S81F29	72-40F4S	72S1-F86	72140F91		l l b
i erbAum	19h71				1S8		G
i erbAum	19h72				1S-		G
i EallAum	2S-71	SF42	SF-8	SF48	SF42	12FS1	l l b
i EallAum	2S971	SF4-	SF41	SF-h	SF41	4F42	l l b
i An	11871	2FS4	2FS1	2F12	2FS9	2F68	l l b
i A&anAum	4071	-16F0S	-10F-	-18F44	-10F4h	SF28	l l b
UranAum	2-871	2F46	2F46	2F9S	2F40	SFh2	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	42F29	4SF42	- hF02	4SF8S	- F21	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				110		G
Y&&Aum	8h72				110		G
ZAnq	6672	216F28	2S0FS-	2S4F6-	2ShF- 2	2Fh4	l l b
ZAqonAum	hS71	- F2-	- F26	- F- 0	- F2h	2F28	l l b
ZAqonAum	h171	- F2h	- FS-	- F- 1	- F21	4F86	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	18- 11Fh8	1844- F4h	18281F21	18- 49F96	SF40	I I b
c n&Amon%	12171	SF- 1	SF- 2	SF- 9	SF- -	6F12	I I b
c rsenAq	0972	12FS6	11F40	11F04	11F06	2F4h	I I b
BarAum	1- 971	- 04FS1	- 61F- -	- 68F14	- 60FB-	1F0-	I I b
BarAum	1- 071	- 6hF22	- 64F00	- 68Fh8	- 60F66	SF68	I I b
Ber%lAum	h71	2F09	2F01	2F01	2F02	1FSS	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F2S	1F- S	1F68	1F- h	18F2-	I I b
RaOmAum	1S671	7SFS4	SF4h	71FS4	7SF1h		I I b
RaOmAum	11171	1F21	1F19	1F1h	1F18	2F- 9	I I b
RalqAum	4- 71	11SS6FS-	1S000F28	1S08SF- S	1S894F9-	1F21	I I b
RalqAum	4471	11498F6-	11- 1SF66	11- 49F11	11- 01F40	SF68	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	26F19	26F21	26F10	26F18	SF11	I I b
Robal&	9h72	19FS2	14FB8	19F14	19FS1	SFB4	I I b
RoI I er	6- 72	28FBh	28Fh2	2hF46	2hFSh	1F1S	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S0		G
DnOAum	11971				1S8		G
DnOAum	11972				1S2		G
Don	9472	42h8hF48	4- 9- 4F4-	4- 124F06	4- 216F22	SF66	I I b
Don	9672	42h62F4-	42288F14	42982FS8	4261SFB8	SF0h	I I b
Don	9072	4- 0h4FB2	44122F0-	4- 400Fh6	4- 0h8F9S	SF04	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	90Fh8	98F14	90F6S	90Fh1	SF40	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	96F28	96F9h	99F2S	96FS-	1F- S	I I b
LeaO	2S871	98F18	90F04	90F16	90F6h	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	9- 14F88	929hF44	9290F82	9200F- 8	SF62	I I b
Manganese	9972	1260F26	1262F80	120hF16	126hF06	SF66	I I b
Mol%bOenum	h471	9F00	9F0h	9F90	9F01	2FSh	I I b
Mol%bOenum	h971	2F- 6	2F2S	2F22	2F26	- F81	I I b
Mol%bOenum	h671	2F64	2F92	2F94	2F90	2F4h	I I b
Mol%bOenum	h071	2F1h	2F- S	2F22	2F24	2F46	I I b
Mol%bOenum	h871	2F- -	2F4-	2F22	2F- -	4F94	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- SFh4	- SFS6	2hF88	- SF- S	1F88	I I b
PEosI Eorus	- 172	1441FS6	1929F44	1- - 8F88	14- 9F1-	6F91	I I b
Po&assAum	- h72	626- F2S	6102F90	61S1FS4	6108Fh-	1F- 2	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S8		G
pqanOAum	4972				1S1		G
pelenAum	8271	1F06	1F- -	1F18	1F4-	21F2h	I I b
pelenAum	0072	0- FSh	06F- 6	61F94	0SF- -	11FS0	I I b
pelenAum	0872	19Fh9	14F41	16F0-	19F0S	0F9-	I I b
pAAqon	2871	240F99	248FS8	244F4-	246F6h	SF8S	I I b
pAver	1S071	SF24	SF22	SF2S	SF22	8FS1	I I b
pAver	1Sh71	SF28	SF2S	SF26	SF29	10F28	I I b
poOAum	2- 72	122F6-	12- F28	12SF62	122F18	1F1-	I I b
p&ona&um	8671	61F88	61F28	90F62	6SF26	- F8-	I I b
p&ona&um	8871	6SF06	6SF- h	98F- -	9hF8-	2F1h	I I b
pulfur	- 471	72618F22	72862F29	7204- FS1	72041F16		I I b
i erbAum	19h71				11S		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF9S	SF99	SF4h	SF91	9F90	I I b
i EallAum	2S971	SF40	SF40	SF91	SF48	4F89	I I b
i An	11871	- F- 4	- F12	- F41	- F2h	4F99	I I b
i A&anAum	4071	200F- 4	206F0h	20hFh6	208FS-	SF61	I I b
UranAum	2- 871	2F84	2Fh0	- FS1	2Fh4	2Fh8	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	9SF2S	4hF08	4hF9h	4hF86	SF62	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				121		G
Y&&Aum	8h72				12S		G
ZAnq	6672	2S8Fh6	211FSh	211F-4	21SF40	SF62	l l b
ZAqonAum	hS71	2F2h	2F20	2F21	2F26	1F86	l l b
ZAqonAum	h171	2F- -	2F24	2F14	2F24	4F2-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	2S909F16	1h620F90	2SS98F11	2SS86Fh9	2F- 6	l l b
cn&Amon%	12171	2F29	2F- 1	2F1h	2F29	2F98	l l b
crsenAq	0972	46FS6	46FSS	44F92	49F9-	1Fh2	l l b
BarAum	1- 971	6- 4F2-	616FhS	614F61	621Fh1	1F02	l l b
BarAum	1- 071	6- 4F- 6	622F81	62- F96	626Fh1	1FS-	l l b
Ber%lAum	h71	- F21	- FSS	- F21	- F14	- F09	l l b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	- F66	- F44	- F92	- F94	- F10	l l b
RaOmAum	1S671	- F81	1F80	71FS6	1F94	19hF10	l l b
RaOmAum	11171	- F- S	- F91	- F- -	- F- 8	- F- 4	l l b
RalqAum	4- 71	41S48F- 1	41912F88	4S44- F- 4	41SS1F91	1F- 1	l l b
RalqAum	4471	42996FhS	42h84F44	418h6F61	4240hF- 2	1F2h	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	- - F82	- 2Fhh	- - FSh	- - F- S	1F- 6	l l b
Robal&	9h72	12F6-	11FhS	12F- h	12F- 1	- FS-	l l b
Rol l er	6- 72	h9F99	hSFh0	h4FSS	h- F9S	2F4h	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S6		G
DnOAum	11971				1S0		G
DnOAum	11972				1S-		G
Don	9472	- 6206F96	- 499- F09	- 99- - F91	- 9494F6S	2F44	l l b
Don	9672	- 6299F62	- - 04SF8-	- 6- 99FS4	- 949SF9S	4F18	l l b
Don	9072	- - 648F12	- 2406FS0	- - - 29F04	- - 14hFh0	1F8-	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	9h1F8-	9h- F64	909Fh0	980F19	1F66	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	969Fh1	968F6h	999F6-	96- F41	1F22	I I b
LeaO	2S871	969F1h	90- F80	99hF40	966F18	1F28	I I b
LA&EAum	671				h6		G
MagnesAum	2472	0886F28	0910F69	0696F91	0686F81	2F42	I I b
Manganese	9972	1222F49	110- F98	11h4F84	11h6Fh6	2FS9	I I b
Mol%bOenum	h471	hF2S	hF42	hF= 0	hF= -	1F24	I I b
Mol%bOenum	h971	- F28	- F1-	- F= 1	- F24	2Fh6	I I b
Mol%bOenum	h671	- F80	- F02	- F82	- F8S	2FS-	I I b
Mol%bOenum	h071	- F29	- FS4	- FS8	- F12	- F90	I I b
Mol%bOenum	h871	- F29	- F2-	- F= 4	- F20	1F8h	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	20F02	29F0h	26F90	26F6h	- F69	I I b
PEosI Eorus	- 172	208- F91	2011F6-	20h4FS4	206- FS6	1F62	I I b
Po&assAum	- h72	96hhF6S	9412FS1	966hFS8	99h- F96	2F82	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S6		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F96	1F44	1F84	1F62	12F08	I I b
pelenAum	0072	- hF8-	- 0F92	- 8F19	- 8F9S	- F11	I I b
pelenAum	0872	8F9h	8F41	8F08	8F9h	2F11	I I b
pAAqon	2871	2- 2F= 0	2- SF04	226F= 6	22hF82	1F= 9	I I b
pAver	1S071	1F12	1F11	1F1S	1F11	SFh4	I I b
pAver	1Sh71	1F11	1F18	1F1S	1F1-	- Fh2	I I b
poOAum	2- 72	990F= S	942F46	998F18	992F69	1F6S	I I b
p&ona&um	8671	- S9F16	- SSF1h	- S1FS9	- S2F1-	SF88	I I b
p&ona&um	8871	- S9F26	- S6F84	- 11F90	- S0F8h	1FS0	I I b
pulfur	- 471	7606F= 0	7- 46F24	76- 0F= 4	799- F= 2		I I b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF= 0	SF= 9	SF= -	SF= 9	6F0-	I I b
i EallAum	2S971	SF= -	SF= -	SF= 1	SF= 2	2F00	I I b
i An	11871	12F6-	12F61	1- FS2	12F09	1F81	I I b
i A&anAum	4071	416FS8	42- FS8	4ShFS1	416FS6	1F6h	I I b
UranAum	2- 871	2F= 0	2F94	2F40	2F46	- F92	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	6- F29	6SF96	61F2S	61F60	2F28	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				114		G
Y&&Aum	8h72				11-		G
ZAnq	6672	1SS1F08	h6SF69	h6hFS4	h00F16	2F22	l l b
ZAqonAum	hS71	- F06	- F98	- F04	- F6h	2F60	l l b
ZAqonAum	h171	- F84	- F89	- F9S	- F0-	9F- 8	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pt 5Tl sb DP t&:	y h SF2N	&dPmTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	1JS49U26	1J1S1U24	1J2SJUN-	1J11NU00	SU44	DDe
q5Tb n5%	12171	SUJ1	SUNN	SUNS	SUN0	6UJN	DDe
qpwr 5cd	0972	46U62	49UNS	46U10	46U2S	SUNN	DDe
Bspcmb	1- 971	4JSU1S	4J1UJN	40JU64	4N0U24	1UJ6	DDe
Bspcmb	1- 071	4J- U60	4N0U29	406U0S	4N9UN0	1U06	DDe
Br p%PPmb	J71	2U94	2U41	2U4-	2U46	2U0S	DDe
Bcvb mTE	2SJ71				1S6		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U11	1UJS	1U92	1UN9	16U2S	DDe
v sob cmb	1S671	71U14	SUJN	7- US6	71U20		DDe
v sob cmb	11171	1UJ4	1UN0	1UN4	1UNN	2U6-	DDe
v sPdcmb	4- 71	269NSUN1	26S69U1N	26902USN	264S6US2	1U12	DDe
v sPdcmb	4471	20069U2S	26N00U2N	20SN6U96	2024- US1	1U0S	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- 971						dDw
v EPhpc5r	- 972						dDw
v Epmb cmb	9272	20U6-	20UJS	2NU26	20UJ-	1U1-	DDe
v nesPT	9J72	19UJ6	19U99	19U66	19U92	SUJJ	DDe
v nDDr p	6- 72	0SU0J	0SU96	01U9S	0SUJ9	SU6J	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1S0		G
h nPb cmb	16972				1S9		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1S2		G
tpn5	9472	41S16U22	4SJ60UJ6	42101UN1	41- N9U1-	1U69	DDe
tpn5	9672	4S2J9U9S	4S222UJ4	4144NU9S	4S699U49	1U6J	DDe
tpn5	9072	4S092US1	- N- S- U96	- JS- NUJ4	- J- 64U64	- U1J	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	2S2U0-	1J4U22	1J4U4-	1J0U1-	2U46	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5Tl sb DP t&:	y h SF2N	&dPmTcm5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	1J4USS	1N6U94	1JSU2-	1JSU29	1UJ6	DDe
Lr so	2SN71	2SJU9-	1JJU69	2S- U4J	2S4U22	2U44	DDe
LdEcmb	671				JN		G
y sM5r wcmb	2472	02J0UJ4	0- 10UJ	0- 1NU26	0- 11U2S	SU16	DDe
y s5Ms5r wr	9972	114SUJ-	11- 0U2J	119JU6S	1149UJ4	1US4	DDe
y nP%eor 5mb	J471	NUSS	NU12	0U01	0UJ4	2U64	DDe
y nP%eor 5mb	J971	- U11	- US-	2UJ6	- US-	2U42	DDe
y nP%eor 5mb	J671	- U4N	- U9N	- U9-	- U9-	1UJ4	DDe
y nP%eor 5mb	J071	2UN6	2UJ0	2UN9	2UNU	2U42	DDe
y nP%eor 5mb	JN71	2UNU	- US0	2U0N	2UJ1	4UJ0	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	- 6U10	- 6U64	- 0U2N	- 6U0S	1U92	DDe
8 EnwDEnpmw	- 172	101- U20	1NJ4US2	10N4U20	10J0U1J	9US0	DDe
8 nTswwcmb	- J72	9NS6UN2	9J4NUJN	9J- 0U04	9NJ0U64	1UJ4	DDe
CEnocmb	1S- 71				1S9		G
CEnocmb	1S- 72				1S-		G
l ds5ocmb	4971				1S0		G
l ds5ocmb	4972				1S1		G
l r P 5cmb	N271	2USN	1UJ6	1UJ4	1U9J	26U9N	DDe
l r P 5cmb	0072	- 0UJ6	9SU2J	44UJ1	44UJJ	1- UJ-	DDe
l r P 5cmb	0N72	1SUJN	NU69	1SUS1	JUNN	11UN9	DDe
l dcdn5	2N71	2- 9US-	2- SUJ-	2- JU9S	2- 4UJ9	1UJ9	DDe
l dgr p	1S071	SU66	SU01	SU02	SU0S	9US-	DDe
l dgr p	1SJ71	SU02	SU69	SU09	SU01	0UJ1	DDe
l nocmb	2- 72	2J- UN9	- S0UNS	- S9U10	- S2U20	2U49	DDe
l Tpm5Tcmb	N671	2S1U24	2S9U9N	1JJUJN	2S2U20	1U49	DDe
l Tpm5Tcmb	NN71	21SUJS	212U60	2SJUS1	21SUN6	SUN0	DDe
l mPmp	- 471	71964UJ0	71N1SUN6	714- 2US9	716S2U42		DDe
Ar pecmb	19J71				1SJ		G
Ar pecmb	19J72				1S9		G
AEs Pbmb	2S- 71	SU4N	SU4S	SU4S	SU4-	11UJ6	DDe
AEs Pbmb	2S971	SU44	SU41	SU4-	SU4-	- U2S	DDe
Ad5	11N71	NU2-	NU21	NU24	NU2-	SU16	DDe
Ad5 5cmb	4071	1- 9U92	12JU69	1- 4U60	1- - U2N	2UJN	DDe
Rps5cmb	2- N71	2U2S	2USJ	2U21	2U10	- U1S	DDe

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse I sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5TI sb DPP t&:	y h SF2N	&dPmTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	09U2J	00U4-	09U1J	09UJ0	1U66	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11-		G
YTTpomb	NJ72				114		G
Zc5d	6672	- 4NU1S	- 44U24	- 99USJ	- 4JU14	1U90	DDe
Zqpdn5omb	JS71	- USS	- U1S	2UJ1	- USS	- USN	DDe
Zqpdn5omb	J171	2UJ9	- U19	- U16	- USJ	- UNN	DDe

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
cRmAAum	2072	10SSJUS5	1042 US4	10222U06	1021JU6-	1U21	l l b
cn&Amon%	12171	SU42	SUJ J	SUJ5	SU4S	U0J	l l b
crwenAq	0 72	1 UJ5	1 UJS	1 UJJ	1 U2	2US1	l l b
BsrAum	1- 71	- S U0J	- 11U21	- S- U20	- S6U0	1UJ2	l l b
BsrAum	1- 071	- S5UJS	- 12U52	- S2U	- SJU42	1U0-	l l b
Ber%RAum	571	2U11	2U11	2US1	2USJ	2U0J	l l b
BAumu&E	2S571				1S0		G
BAumu&E	2S572				1S4		G
BromAne	J171						ql w
v sOmAum	1SJ71	SU01	SU54	SU55	SUJJ	10U25	l l b
v sOmAum	1S671	72U25	2U0S	72UJ1	7SU6-		l l b
v sOmAum	11171	SU0	SUJ5	SUJS	SUJ1	5USS2	l l b
v sRqAum	4- 71	121- 6U5S	12- 6SU1J	12SJ5U0-	1215 U6S	1U1J	l l b
v sRqAum	4471	1255- U51	12021U2-	12651U4	12JS2U2-	1UJS	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAne	- 71						ql w
v ERrAne	- 72						ql w
v EromAum	272	1JU5-	15UJ-	15U64	15U40	2U4-	l l b
v obsR&	572	12U65	12UJ-	12UJ0	12U05	SU0-	l l b
v ol l er	6- 72	2JU5	- SUJ1	25U00	25U6J	2UJS	l l b
t %W rowAum	1 671						ql w
t %W rowAum	1 672						ql w
. rbAum	16471						ql w
. rbAum	16472						ql w
HsOoRAum	16S71						ql w
HsOoRAum	16S72						ql w
hoRmAum	16 71				1S5		G
hoRmAum	16 72				1S4		G
DnOAum	11 71				1SJ		G
DnOAum	11 72				1SS		G
Don	472	- 14- - U6	- - 1SJU4	- 2 0- U42	- 2- 01UJ4	2U64	l l b
Don	672	- 1JJ5USS6	- 26- 1U0S	- 2S6JUSJ	- 2156U2J	1U2S	l l b
Don	072	- S- 26U-	- S- SJU22	25512U65	- S1J2U4J	SU00	l l b
Kr%&on	J- 71						ql w
LesO	2S671	05U04	J- U41	JSU40	J1U21	2UJ5	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	06U14	JSU1S	00U0	0JUSS	2U	I I b
LesO	2SJ71	0JU42	J1USS	0JU05	05U41	1U06	I I b
LA&EAum	671				5J		G
y sMnewAum	2472	220US4	4JSU-	4JJUS6	- 5JU4J	2U0	I I b
y snMsnewe	72	656U5J	011U-	0S US	0S4U2	1US-	I I b
y oP%bOenum	5471	U1J	U2	U5	US	1U5J	I I b
y oP%bOenum	5 71	1U10	1U2J	1U15	1U21	4U60	I I b
y oP%bOenum	5671	1U6	1U6-	1U2	1U6S	4U16	I I b
y oP%bOenum	5071	1U20	1U1	1U24	1U22	US0	I I b
y oP%bOenum	5J71	1U2-	1U21	1U2J	1U24	- US6	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	26U50	2JUSJ	20U40	20US	2US1	I I b
8EowI Eoruw	- 172	5 1UJ4	J15USS	J0- U21	JJ1UJ	0UJ	I I b
8o&swwAum	- 572	4JJ- U02	45J UJ-	4562UJ1	454- U0J	1USJ	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S-		G
pqsnOAum	4 71				1S0		G
pqsnOAum	4 72				5J		G
pe&enAum	J271	SU55	SU	1US-	SUJ6	- 1U21	I I b
pe&enAum	0072	4 UJ0	1U1S	64U4J	- UJ2	10UJ-	I I b
pe&enAum	0J72	1SUJ2	1SU2S	11U22	1SU0	4U0	I I b
pAqon	2J71	10 U6S	1J- U5	1J2UJ-	1JSU60	2U44	I I b
pAger	1S071	SU	SU4	SU0	SU	2UJS	I I b
pAger	1S571	SU0	SUJ	SU4	SU6	- U66	I I b
poOAum	2- 72	54U55	1SSUS	1SSUJ	5JU6-	- U22	I I b
p&on&Aum	J671	52UJS	5- U6-	51U64	52U65	1USJ	I I b
p&on&Aum	JJ71	5 U46	54U4-	5JU66	56U1J	2U25	I I b
pu&ur	- 471	72- 40U2	721S4U50	72251UJ4	7224JU11		I I b
i erbAum	1 571				11S		G
i erbAum	1 572				1S-		G
i EsPAum	2S- 71	SUJ0	SUJ5	SU46	SU41	11U0-	I I b
i EsPAum	2S 71	SU4S	SU4S	SUJ0	SUJ5	UJ6	I I b
i An	11J71	2U1J	2U2	2US5	2U10	- U00	I I b
i A&snAum	4071	1 1U64	1 - U2J	1 4U2	1 - U1	SU54	I I b
RrsnAum	2- J71	1UJS	1UJ1	1U2-	1U2J	- UJS	I I b

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LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ro&on:Fsq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	U4	JUJ0	0U02	0UJ	2U54	I I b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&Aum	J571				116		G
Y&Aum	J572				111		G
ZAnq	6672	1 4U5-	1 5U1	1 0UJ5	1 0U44	1U4J	I I b
ZAqonAum	5S71	2U44	2U45	2US	2U4J	1U10	I I b
ZAqonAum	5171	2U0	2U4	2UJ1	2U40	U51	I I b

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LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20 2	9S92N.Sy	91491.07	91y12.01	912y0.91	1.70	DDe
qCTb 5Ch	121 1	4y7.S6	9S0.21	4y6.yN	4yy.SN	1.46	DDe
qpwr Ccd	09 2	922.7y	920.27	929.y1	929.10	S.4N	DDe
Bspcmb	179 1	246S.Ny	2406.yS	29S2.99	24NS.11	S.N9	DDe
Bspcmb	170 1	2429.y4	291N.16	2926.29	24yS.12	2.24	DDe
Br phPmb	y 1	4N0.S9	409.21	4y7.y9	4N9.4S	1.y9	DDe
Bcwb mT%	2Sy 1				y6		E
Bcwb mT%	2Sy 2				y7		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	9S1.24	4y9.60	4y0.7S	4yN.S0	S.9N	DDe
3 sob cmb	1S6 1	4N6.92	9S0.yN	4y1.9S	4y9.77	2.20	DDe
3 sob cmb	111 1	4y9.7y	9S1.04	9S1.1N	4yy.44	S.0S	DDe
3 sPlcmb	47 1	27NS71.46	27yS1y.y6	246y79.4S	24172N.y4	2.S2	DDe
3 sPlcmb	44 1	279909.2S	2709S7.N1	27y201.42	27049S.14	S.0N	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %P5pCr	79 1						dDw
3 %P5pCr	79 2						dDw
3 %p5b cmb	92 2	4N4.S2	4N0.69	4N6.S2	4N9.yS	S.70	DDe
3 5esPT	9y 2	4N0.47	4N4.04	4y1.S9	4N0.04	S.69	DDe
3 5DDr p	67 2	9791.06	91N7.40	9720.46	92N0.96	1.02	DDe
&hwDp5wcmb	196 1						dDw
&hwDp5wcmb	196 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PCcmb	16S 1						dDw
Hso5PCcmb	16S 2						dDw
K5Pb cmb	169 1				1S1		E
K5Pb cmb	169 2				1SS		E
tCocmb	119 1				y6		E
tCocmb	119 2				y2		E
tp5C	94 2	17S6S0.61	1294S2.91	126721.SN	120447.07	2.1N	DDe
tp5C	96 2	1266yS.4y	126SSN.S4	1266N0.22	126461.y1	S.71	DDe
tp5C	90 2	12y970.S9	126941.42	12091S.yN	120N67.19	1.2S	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	27y1.27	2979.67	2927.64	24N7.9S	7.27	DDe

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LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdPP:u sb r :J	S923 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0 1	27NN.0S	2941.17	2919.0y	24N1.N0	7.2y	DDe
Lr so	2SN 1	24S1.00	294S.61	291y.0y	24N0.7y	7.S1	DDe
LdP%mb	6 1				N6		E
MsgOr wmb	24 2	297NN2.y7	296269.79	29yNy4.22	2966NS.N7	1.1N	DDe
MsOgsOr wr	99 2	92Sy.90	9171.N1	91S7.1y	914N.1y	1.S0	DDe
M5PPeor Omb	y4 1	4y9N.20	4y07.NS	4y17.4y	4y4N.92	S.67	DDe
M5PPeor Omb	y9 1	4y2y.74	4y61.7N	4ySy.12	4y77.2N	S.97	DDe
M5PPeor Omb	y6 1	4y07.17	4y24.46	4NNS.N1	4y26.17	S.y4	DDe
M5PPeor Omb	y0 1	4N97.y0	4y29.S0	4NyN.4y	4Ny2.91	S.07	DDe
M5PPeor Omb	yN 1	4N4y.N4	9S27.40	9S66.24	4y0y.N9	2.7S	DDe
u r 5ohb omb	19S 1						dDw
u r 5ohb omb	19S 2						dDw
u dfr P	6S 2	9S4.22	4y6.NS	9S4.90	9S1.N0	S.N0	DDe
8 %5wD%5pmw	71 2	y622.07	1S2Ny.96	y02y.24	yNNS.91	7.67	DDe
8 5TswwOmb	7y 2	126y16.16	126710.9y	124722.4y	129N92.SN	1.SN	DDe
R%5oomb	1S7 1				y2		E
R%5oomb	1S7 2				y1		E
I dsCoomb	49 1				y9		E
I dsCoomb	49 2				y1		E
I r PPOmb	N2 1	40y.y0	4N6.y4	400.76	4N1.42	1.S7	DDe
I r PPOmb	00 2	9S6.N6	4y6.2y	94S.9N	914.9N	4.4y	DDe
I r PPOmb	0N 2	910.0N	929.66	974.24	929.Ny	1.90	DDe
I dPd5C	2N 1	9S9.71	9Sy.77	920.y0	914.2S	2.79	DDe
I dPr p	1S0 1	4N0.71	4N9.1S	4N2.1N	4N4.N6	S.97	DDe
I dPr p	1Sy 1	4y2.4N	4N2.N9	4yS.1S	4NN.4N	1.S7	DDe
I 5oomb	27 2	29y414.N9	29N0y4.47	29y66N.1N	29y2y2.4y	S.10	DDe
I Tp5CTomb	N6 1	129S0.14	1296N.0N	121N2.19	1241y.76	1.60	DDe
I Tp5CTomb	NN 1	122N1.64	126Sy.N9	122S6.9S	12766.SS	1.07	DDe
I mPPmp	74 1	y779.04	N009.29	y922.6N	y211.22	4.22	DDe
Ar pe omb	19y 1				1S1		E
Ar pe omb	19y 2				yy		E
A%sPPmb	2S7 1	4Ny.N2	9S7.y6	911.yy	9S1.y2	2.24	DDe
A%sPPmb	2S9 1	4y0.S6	9S0.4N	9S9.10	9S7.24	1.Sy	DDe
AdC	11N 1	4y2.4S	9S6.7S	4Ny.N6	4y6.1N	1.0N	DDe
AdsOomb	40 1	4y47.69	4yN7.6y	9S9S.yN	4yy2.00	1.Sy	DDe
UpsOomb	27N 1	4yS.74	9S2.62	9Sy.S6	9SS.6N	1.yS	DDe

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LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	91 2	91N.Sy	911.yS	922.49	910.4N	1.S2	DDe
YTTr pe omb	102 1						dDw
YTTr pe omb	102 2						dDw
YTTr pe omb	106 1						dDw
YTTr pe omb	106 2						dDw
YTTpomb	Ny 1				y6		E
YTTpomb	Ny 2				y4		E
ZdCd	66 2	4yN6.67	4y76.6N	9S11.2N	4y0N.2S	S.06	DDe
Zqpd5Comb	yS 1	4y2.12	4N6.1N	4yy.y6	4y2.09	1.4S	DDe
Zqpd5Comb	y1 1	400.44	402.64	40y.N9	406.64	S.00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5&w
cRmA5Aum	2072	1.2J	- .0J	: .- 1	- .46	: J.06	l l b
c5&mn5y	12171	S.22	S.2J	S.- 1	S.20	1J.S1	l l b
crwe5Aq	0: 72	S.S-	S.Sh	S.SJ	S.S0	42.- h	l l b
BsrAum	1- : 71	S.2-	S.20	S.Sh	S.1h	4J.h0	l l b
BsrAum	1- 071	S.2-	S.2:	S.14	S.21	20.h6	l l b
BeryPAum	h71	S.11	S.11	S.S0	S.1S	24.S:	l l b
BAumu&%	2Sh71				1SS		E
BAumu&%	2Sh72				1SS		E
BrnmA5e	J171						ql w
3 sOmAum	1SJ71	S.1:	S.S-	S.1:	S.11	6: .0-	l l b
3 sOmAum	1S671	74.42	74.- 1	71.1h	7- .- 1		l l b
3 sOmAum	11171	S.S:	S.S6	S.S-	S.S:	- 1.61	l l b
3 sRqAum	4- 71	20.0h	- 6.26	11.2:	2: .1S	: S.66	l l b
3 sRqAum	4471	60.14	66.S:	4- .: 1	: J.hS	22.6:	l l b
3 srbn5	1271						ql w
3 srbn5	1272						ql w
3 %nrA5e	- : 71						ql w
3 %nrA5e	- : 72						ql w
3 %nmAum	: 272	S.S6	S.11	S.S6	S.SJ	- J.10	l l b
3 nbsR&	: h72	S.SS	S.S4	S.S4	S.S2	1SS.: 0	l l b
3 nl l er	6- 72	S.0-	S.h0	1.SS	S.hS	16.21	l l b
t ywl rnwAum	1: 671						ql w
t ywl rnwAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
GsOnP5Aum	16S71						ql w
GsOnP5Aum	16S72						ql w
HnPmAum	16: 71				1S1		E
HnPmAum	16: 72				1SS		E
D5OAum	11: 71				hh		E
D5OAum	11: 72				h6		E
Dn5	: 472	- .0S	h.S1	1S.SS	0.: 0	44.00	l l b
Dn5	: 672	- .J6	J.- h	1S.- -	0.: -	44.1-	l l b
Dn5	: 072	: .h-	J.24	1S.SJ	J.SJ	2: .01	l l b
Kryl &n5	J- 71						ql w
LesO	2S671	S.- J	S.- h	S.- 1	S.- 6	1S.h4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
LesO	2S071	S.42	S.4S	S.2:	S.- 6	2: .2S	I I b
LesO	2SJ71	S.- h	S.4S	S.- 1	S.- 0	1- .SJ	I I b
LA%Aum	671				JJ		E
Msg5ewAum	2472	4.: J	1- .14	21.0S	1- .14	6: .16	I I b
Ms5gs5ewe	: : 72	S.1S	S.20	S.: :	S.- 1	0: .2J	I I b
MnPybOe5um	h471	S.h1	S.h-	S.06	S.J0	1S.6:	I I b
MnPybOe5um	h: 71	1.10	1.42	S.6h	1.1S	- - .61	I I b
MnPybOe5um	h671	1.S1	1.S1	S.6J	S.hS	21.: h	I I b
MnPybOe5um	h071	S.J0	S.J-	S.0-	S.J1	J.h1	I I b
MnPybOe5um	hJ71	S.h6	1.Sh	S.6:	S.hS	24.h:	I I b
NenOymAum	1: S71						ql w
NenOymAum	1: S72						ql w
NAqkeP	6S72	S.SS	S.S-	S.S4	S.S2	1SJ.6J	I I b
8%nwl %nruw	- 172	76S.- 2	2.Jh	7- .S4	72S.16		I I b
8n&swwAum	- h72	: J.1h	: J.J0	: 2.h1	: 6.66	: .06	I I b
R%nOAum	1S- 71				hJ		E
R%nOAum	1S- 72				hh		E
pqs5OAum	4: 71				h4		E
pqs5OAum	4: 72				h1		E
pere5Aum	J271	7S.- 1	7S.61	7S.S4	7S.- 2		I I b
pere5Aum	0072	7S.- J	7S.- J	7S.- J	7S.- J		I I b
pere5Aum	0J72	1.S4	S.JJ	S.24	S.02	: J.hh	I I b
pAqn5	2J71	S.60	S.4h	S.4S	S.: 2	2: .h-	I I b
pAer	1S071	S.S:	S.S4	S.S4	S.S4	16.- h	I I b
pAer	1Sh71	S.S:	S.S:	S.S4	S.S:	J.hJ	I I b
pnOAum	2- 72	1: 1.0J	16S.0:	1: 4.41	1: : .6:	2.h6	I I b
p&n5&Aum	J671	1.2J	1.- 1	S.6:	1.SJ	- 4.10	I I b
p&n5&Aum	JJ71	1.: 1	1.1S	S.6:	1.SJ	- h.00	I I b
pufur	- 471	0J.6:	7- S.h-	7124.: 2	72: .6S		I I b
i erbAum	1: h71				1SS		E
i erbAum	1: h72				hJ		E
i %sPAum	2S- 71	S.- 2	S.- 1	S.2-	S.2J	1J.2J	I I b
i %sPAum	2S: 71	S.2:	S.20	S.22	S.2:	1S.44	I I b
i A5	11J71	S.62	S.S6	S.S0	S.2:	12J.4:	I I b
i A&s5Aum	4071	S.h0	S.J4	S.- -	S.02	40.21	I I b
Urs5Aum	2- J71	S.S4	S.S0	S.S-	S.S:	- 6.Sh	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsqa&r 9	1
t s&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
Vs5sOAum	: 172	S.S2	S.S-	S.S0	S.S4	04.h0	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				hJ		E
Y&&Aum	Jh72				h6		E
ZA5q	6672	S.1J	S.- 1	S.: 6	S.- :	: : .JS	l l b
ZAqn5Aum	hS71	S.S6	S.S6	S.S-	S.S:	- - .- 0	l l b
ZAqn5Aum	h171	S.S2	S.S6	S.S-	S.S4	4J.06	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	2S0JhFJ-	2S1JJF64	2S42: FJ2	2S46JF1S	1F4J	l l b
cn&Amon%	12171	SF0h	SFhJ	SFJh	SFJh	1SF02	l l b
crwenAq	0: 72	1- F44	1- F60	1- F2h	1- F40	1F4-	l l b
BsrAum	1- : 71	- - 2FS6	- - 6F- h	- : : F2J	- 41F24	- F62	l l b
BsrAum	1- 071	- - 0F. 1	- - hF16	- : 0F0S	- 44F0h	- F2:	l l b
Ber%RAum	h71	2F. h	2F0-	2FJ1	2F01	4F1h	l l b
BAumu&E	2Sh71				1S-		G
BAumu&E	2Sh72				1SS		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFJS	SF0J	SF6h	SF06	0F12	l l b
RsOmAum	1S671	71F1h	72F41	7SFh-	71F. 1		l l b
RsOmAum	11171	SF40	SF4J	SF44	SF46	- FJ2	l l b
RsRqAum	4- 71	1J6- hF21	1h1- SFJ0	1hJJ: FJ6	1h21JF6:	- F20	l l b
RsRqAum	4471	1Jh24FhS	1h: SSF6-	2S: ShF41	1h644FhJ	4FSJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- : 71						ql w
REPrAne	- : 72						ql w
REromAum	: 272	26Fh0	26F2J	26F- h	26F. :	1F- h	l l b
RobsR&	: h72	14F46	1- F01	14F1J	14F11	2F6h	l l b
Rol l er	6- 72	26F41	2: F22	2: F. h	2: F04	2F- 0	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oFmAum	16: 71				1S:		G
y oFmAum	16: 72				1S1		G
DrOAum	11: 71				1S1		G
DrOAum	11: 72				h0		G
Don	: 472	- 6: - 0FJ4	- : S20F. 6	- : SJ1F2h	- : : 4JFhS	2F41	l l b
Don	: 672	- : 06: F6h	- 4: 01F. 2	- : 2h6Fhh	- : 211F4S	1F01	l l b
Don	: 072	- - 440Fh0	- 2020FS1	- 2h0hF. 6	- - S: 1F. 1	1F11	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	- : F1:	- 6F0S	- 0F22	- 6F- 6	2Fh6	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
LesO	2S071	- 2F0S	- - F: 1	- 4F- 4	- - F: 2	2F4:	I I b
LesO	2SJ71	- - F0J	- 4Fh-	- : FJ-	- 4FJ:	2Fh:	I I b
LAEAum	671				h2		G
MsgnewAum	2472	: 2h6F- 0	: SJSF46	: 16SF01	: 10hF1J	2F11	I I b
Msngsnewe	: : 72	60hF: 4	6: 2FJh	6: 2F- :	661F: h	2F- :	I I b
MoP%bOenum	h471	: F2S	: F- -	: FJ2	: F4:	6FS2	I I b
MoP%bOenum	h: 71	1F14	1FSh	1F24	1F16	6F- J	I I b
MoP%bOenum	h671	1F6J	1F60	1F0S	1F6J	SF0J	I I b
MoP%bOenum	h071	1FSh	1F- 2	1F22	1F21	hF- J	I I b
MoP%bOenum	hJ71	1F16	1F20	1F: 6	1F- -	1: F: h	I I b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	- - F1S	- 1F6J	- 2F2-	- 2F- 4	2F21	I I b
8EowI Eoruw	- 172	4hJF: J	: 0SF46	44hF- 4	: S6F1-	12FS4	I I b
8o&swwAum	- h72	442: FJ-	4- 4hF64	44S0FJ4	4- h4F44	SFh1	I I b
5EoOAum	1S- 71				hh		G
5EoOAum	1S- 72				hh		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h4		G
pe?enAum	J271	SFJ6	1F22	1FS0	1FS:	10F10	I I b
pe?enAum	0072	64F- S	61F16	64FS1	6- F16	2F0:	I I b
pe?enAum	0J72	1: FS-	14F1h	12FS4	1- F0:	11F1J	I I b
pAqon	2J71	242F20	24JF11	2: : FS4	24JF40	2F: 0	I I b
pA?er	1S071	SF10	SF1J	SF1J	SF1J	1F: -	I I b
pA?er	1Sh71	SF24	SF10	SF2S	SF2S	1hF- J	I I b
poOAum	2- 72	2S1F: 6	10: FJ:	1JJFJ0	1JJF06	6FJ1	I I b
p&on&Aum	J671	0hF2-	J1F0h	J: F04	J2F2:	- Fhh	I I b
p&on&Aum	JJ71	0JFh6	J2F6:	J4Fh0	J2F2S	- F6h	I I b
pufur	- 471	71S0JF24	71162F0S	7h- 6Fh-	71S: hF2h		I I b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S2		G
i EsPAum	2S- 71	SF6:	SF6J	SF6h	SF60	- F60	I I b
i EsPAum	2S: 71	SF6:	SF6J	SF6J	SF60	2F4h	I I b
i A	11J71	2FS4	2F1-	2F16	2F11	- FS-	I I b
i A&snAum	4071	1- SF: h	12JF12	1- - F04	1- SFJ2	2F1:	I I b
UrsnAum	2- J71	1F26	1F- 1	1F- h	1F- 2	4Fh6	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9119 J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
VsnsOAum	: 172	64F4h	6- F16	6- F1S	6- F: J	1F24	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				111		G
Y&&Aum	Jh72				111		G
ZAnq	6672	11- FJ:	1ShF6h	112F- 1	111Fh:	1FJJ	l l b
ZAqonAum	hS71	2F4-	2F: 0	2F0S	2F: 0	: F- 2	l l b
ZAqonAum	h171	2F62	2F64	2F0-	2F60	2F20	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	JJhhFSJ	J061F1:	J611F24	J0: 0F16	1F64	l l b
cn&Amon%	12171	SF0-	SF0J	SFJ2	SF0J	: Fh1	l l b
crwenAq	0: 72	1SF2S	1SF24	1SF60	1SF- 0	2F. -	l l b
BsrAum	1- : 71	21: FJ6	22SF0J	21: F- S	210F- 1	1F- h	l l b
BsrAum	1- 071	21- F4-	22: F26	222FJ-	22SF. 1	2FJ-	l l b
Ber%BAum	h71	1F40	1F46	1F4J	1F40	SF66	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S2		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFhS	1F1S	1F41	1F14	22F. :	l l b
RsOmAum	1S671	71F. 0	7- F46	7SF41	71FJ1		l l b
RsOmAum	11171	1F- 4	1F26	1F20	1F2h	- F. 2	l l b
RsRqAum	4- 71	6: h1F60	60S4FS0	60JSF0-	66h2F16	1F42	l l b
RsRqAum	4471	6hh1FhS	0S4hFSS	0Sh- F0S	0S44FJ0	SF02	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REFrAne	- : 71						ql w
REFrAne	- : 72						ql w
REromAum	: 272	1- Fh:	1- F. 2	1- F6S	1- F6h	1F6:	l l b
RobsR&	: h72	6F0-	6FJJ	6FJ6	6FJ2	1F2S	l l b
Rol l er	6- 72	4SFSJ	- JF0h	- hFS1	- hF2h	1F0:	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oFmAum	16: 71				1S:		G
y oFmAum	16: 72				1S4		G
DrOAum	11: 71				1S2		G
DrOAum	11: 72				hh		G
Don	: 472	101SJFh0	16: 14F6J	16061Fhh	160h: F21	1F0J	l l b
Don	: 672	10J2- F04	100- JF60	10042Fh1	1006JF44	SF20	l l b
Don	: 072	16060F2:	164- 2FhS	16- 1: F40	16: S: F2S	1F42	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	12hF. S	12hF- h	1- 1F- h	1- SFSh	SFJ6	l l b

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On:7/14/2023 8:48:56 AM
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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
LesO	2S071	12- F- 2	120F21	12JF. h	126F- 0	2F16	l l b
LesO	2SJ71	120FS2	1- 4FS6	1- SFJ0	1- SF6:	2F0S	l l b
LAEAum	671				h4		G
MsgnewAum	2472	21J4F2S	211hFJh	211hF4-	2141F1J	1F04	l l b
Msngsnewe	: : 72	4: 1F61	44: FJ4	44: FhS	440F0J	SF04	l l b
MoP%bOenum	h471	4F. 0	4F06	4F4h	4F61	- FS6	l l b
MoP%bOenum	h: 71	1F2S	1F2:	1F- S	1F2:	- FJ0	l l b
MoP%bOenum	h671	1F. h	1F02	1F62	1F64	4F2:	l l b
MoP%bOenum	h071	1F2S	1F- 4	1F- 1	1F2J	: F42	l l b
MoP%bOenum	hJ71	1F21	1F20	1F22	1F2-	2F6-	l l b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	1SFh0	1SF4-	1SF- 1	1SF. 0	- F- 2	l l b
8 EowI Eoruw	- 172	1J60F26	2S1hFSh	1Jh: F00	1h20F- 0	4F1h	l l b
8 o&swwAum	- h72	- 622FS:	- 6S0F6J	- 622F- -	- 610F- 6	SF2-	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1SS		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h6		G
pe?enAum	J271	SF00	SF6h	SFh1	SF0h	14F2h	l l b
pe?enAum	0072	- 4F. 0	- 6F21	- 1F1S	- - Fh6	0F60	l l b
pe?enAum	0J72	: F00	6F- 6	0F6S	6F. J	14F10	l l b
pAqon	2J71	1J- F- 0	1J6F20	1J0F4:	1J: F0S	1F1-	l l b
pA?er	1S071	SF. 0	SF. 4	SF. h	SF. 6	4F6h	l l b
pA?er	1Sh71	SF. 0	SF64	SF6S	SF6S	: F- 2	l l b
poOAum	2- 72	1JSFh6	10SFh0	1JJF14	1JSFS2	4F0h	l l b
p&onA&um	J671	JJF0:	h2Fh2	h2F44	h1F- 0	2F. S	l l b
p&onA&um	JJ71	JhF41	h: Fh-	h: FJ2	h- F02	- FhJ	l l b
pufFur	- 471	7J0- F24	7120hFJh	71S0hF20	71S00F40		l l b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S1		G
i EsFAum	2S- 71	SF- -	SF- -	SF- -	SF- -	SF. 1	l l b
i EsFAum	2S: 71	SF- 1	SF- 1	SF- 1	SF- 1	SF0-	l l b
i A	11J71	4F- 2	4F4S	4F62	4F44	- F4-	l l b
i A&snAum	4071	12hF- S	1- 4F26	1- 4F22	1- 2F. h	2F1:	l l b
UrsnAum	2- J71	2F26	2F1h	2F- 1	2F2:	2F6h	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
VsnsOAum	: 172	2JFh0	20F6h	20FJS	2JF1:	2F: 1	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				1S6		G
Y&&Aum	Jh72				1S2		G
ZAnq	6672	224FS0	21hF00	22SF1h	221F-4	1FS0	l l b
ZAqonAum	hS71	1Fh:	2F10	1Fh:	2FS2	6F4:	l l b
ZAqonAum	h171	1Fh-	2FS-	2F1J	2FS:	6F21	l l b

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Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	9 00F-9	9h- hF09	9h- 1F-2	9h16F14	SF90	l l b
cn&mon%	12171	SF6S	SF9	SF66	SF61	6F41	l l b
crwenAq	0972	F20	F01	F4	F4h	2F61	l l b
BsrAum	1- 971	144F42	141FS	1- hF 6	141F0h	1F60	l l b
BsrAum	1- 071	146FSh	14SFS9	14SF49	142F2S	2F-0	l l b
Ber%BAum	h71	1F16	1F24	1F19	1F1	4F1h	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S4		G
BromAne	171						ql w
RsOmAum	1S 71	SF9S	SFh2	SF66	SF6h	- SF0	l l b
RsOmAum	1S671	SF0-	71F66	7- F2h	71F4S		l l b
RsOmAum	11171	SFh1	SFh2	SFh-	SFh2	SF 1	l l b
RsRqAum	4- 71	- 9hhF29	- 6S F42	- 990F1-	- 9 F20	SF06	l l b
RsRqAum	4471	- 9 1F6-	- 69SF-6	- 6S2F 1	- 611F6S	SFh0	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- 971						ql w
REPrAne	- 972						ql w
REromAum	9272	11F-4	11F16	11F49	11F-2	1F-S	l l b
RobsR&	9h72	9F 9	9F09	9F01	9F00	1F2-	l l b
RoI I er	6- 72	26F4-	26F- -	26F-9	26F-0	SF21	l l b
t %w rowAum	19671						ql w
t %w rowAum	19672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoPnAum	16S71						ql w
HsOoPnAum	16S72						ql w
y oPnAum	16971				1S4		G
y oPnAum	16972				1S-		G
DnOAum	11971				1S-		G
DnOAum	11972				1SS		G
Don	9472	122S2F6S	122S- F0S	12S92F-0	12192F h	SF02	l l b
Don	9672	12 14F6-	1- S- 9F9	1- SSSF60	12h9SF2h	SFh2	l l b
Don	9072	12S- 0F62	12S 9F-h	1212hF11	12S 4FS4	SF-	l l b
Kr%&on	- 71						ql w
LesO	2S671	00FS4	09F92	04F6	09F04	1F9	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	My S. - 2	t AR&on:. sq&br:J	1
t s&:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF:RonqF	Ronq5pt	Un&w
LesO	2S071	0- F9h	0- F19	02F10	02Fh0	SFhh	l l b
LesO	2S 71	09F49	04F62	0- F9	04F99	1F26	l l b
LAEAum	671				h9		G
MsgnewAum	2472	1- 19F22	1- 99F66	1- - 9F- -	1- - 9F4S	1F91	l l b
Msngsnewe	9972	441F4	446F9S	442F0S	44- F96	SF9h	l l b
MoP%bOenum	h471	- F- 4	- F- S	- F19	- F26	- FS-	l l b
MoP%bOenum	h971	1F1	1FS-	SFh6	1FS6	1SF6S	l l b
MoP%bOenum	h671	1F- 6	1F2	1F- 2	1F- 2	2F00	l l b
MoP%bOenum	h071	1F2S	1FSh	1F11	1F1-	9F10	l l b
MoP%bOenum	h 71	1F14	1FS9	1FS4	1FS0	4Fhh	l l b
NeoO%mAum	19S71						ql w
NeoO%mAum	19S72						ql w
NAqkeP	6S72	0F -	F29	FSS	FS-	2F66	l l b
8EowI Eoruw	- 172	062F9h	h- 2F9h	h14F- 2	6hF -	1SF0-	l l b
8oo&swwAum	- h72	1h SF12	2S26F 4	2S2hF 1	2S12F26	1F- h	l l b
5EoOAum	1S- 71				1S-		G
5EoOAum	1S- 72				1S-		G
pqsnOAum	4971				1S1		G
pqsnOAum	4972				h0		G
pelenAum	271	SF29	SF4h	SF- 2	SF- 6	- 4Fhh	l l b
pelenAum	0072	- SFS9	- 4F1	- 4F 2	- - FS2	0F 6	l l b
pelenAum	0 72	0F- S	6F41	9FhS	6F94	1SFhS	l l b
pAAqon	2 71	10 F26	1 1F40	106F12	10 F62	1F91	l l b
pAPer	1S071	SF- 0	SF- 2	SF- 9	SF- 9	0F0S	l l b
pAPer	1Sh71	SF- 1	SF26	SF- 2	SF- S	1SF41	l l b
poOAum	2- 72	194FhS	196FS-	199F 2	199F9h	SF- h	l l b
p&on&Aum	671	91F0S	91F21	9SF1h	91FS-	1F91	l l b
p&on&Aum	71	9SF1h	9SF- 9	4hFh2	9SF19	SF4-	l l b
pulPur	- 471	71622F24	719h F4-	716h0F69	716- hF44		l l b
i erbAum	19h71				1S9		G
i erbAum	19h72				1S1		G
i EsPAum	2S- 71	SF26	SF2-	SF24	SF29	9F- 1	l l b
i EsPAum	2S971	SF29	SF24	SF24	SF29	2F96	l l b
i An	11 71	2F- -	2F- S	2F46	2F- 6	- F69	l l b
i A&snAum	4071	h Fh	h Fh1	h6F26	h FS9	1F9	l l b
UrsnAum	2- 71	1F6S	1F9	1F99	1F9	1F64	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t A&on:. sq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	9172	22F69	22F6h	22F91	22F62	SF41	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				1S6		G
Y&&Aum	h72				1S2		G
ZAnq	6672	1- - F4S	1- F12	1- 2Fhh	1- 4F -	2F11	l l b
ZAqonAum	hS71	1F- 2	1F- -	1F20	1F- 1	2F2-	l l b
ZAqonAum	h171	1F26	1F2	1F- 2	1F2h	2F00	l l b

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdP:u sb r :J	S90qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	11- - SU1-	1194 U9S	110N2U11	1199- U 1	1U 6	DDe
q5Tb n5%	12171	SU9	SU9 9	SU4-	SU9	1SUNN	DDe
qpwr 5cd	0972	12US1	1SU06	11U04	11U9S	9U09	DDe
Bspcmb	1- 971	240USN	290U49	296U62	29- U01	2U20	DDe
Bspcmb	1- 071	249U69	292U0	290U49	291U 6	2U 6	DDe
Br p%PPmb	71	2U11	2U14	2U1-	2U1-	SUN9	DDe
Bcvb mTE	2S 71				1S		G
Bcvb mTE	2S 72				1S-		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	1US-	1US1	1US4	1US2	1U 4	DDe
v sob cmb	1S671	7SUS0	72U41	71UNN	71U49		DDe
v sob cmb	11171	SUN0	SU6	SUN-	SUNS	11U00	DDe
v sPdcmb	4- 71	1S 14U9-	11S SU9-	11292U2-	11SN9U00	1U92	DDe
v sPdcmb	4471	1140- U2N	119N2U4S	110 NUSN	11610U 2	1U42	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpd5r	- 971						dDw
v EPmpd5r	- 972						dDw
v Epmb cmb	9272	19US	19U1	16U19	19U4N	- U00	DDe
v nesPT	9 72	11U9 2	1SUNS	11U4	11U2S	- U2S	DDe
v nDDr p	6- 72	- 1UNN	- 2U9 2	- - U 6	- 2U02	- U9 9	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1SN		G
h nPb cmb	16972				1S-		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1SS		G
tpn5	9472	291S0U14	29640U9N	2611SUNS	29621U00	1U 6	DDe
tpn5	9672	2922SU9 4	24N40U1N	264S6U1N	294 1U24	- U1	DDe
tpn5	9072	2- 422U9 9	2- S16U61	246- NU0-	2- 6 2U96	- U96	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	64U4S	64UN6	69US1	64U09	SU4	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	61UJ 1	61U1	61U64	61UJ N	SUJ N	DDe
Lr so	2SN71	6- U1N	62U91	6- U20	62U	SU66	DDe
LdEomb	671				0		G
y sM5r womb	2472	91- 4US4	9199U9S	9- 24U 9	92S4UN-	2US1	DDe
y s5Ms5r wr	9972	00SU94	000UJ 4	N19U46	0N0U0N	- US0	DDe
y nP%eor 5mb	471	9U90	9U9	9U90	9U9N	SU1	DDe
y nP%eor 5mb	971	1U1S	1U2-	1U21	1U1N	9U 4	DDe
y nP%eor 5mb	671	1U91	1U6	1U60	1U62	9U -	DDe
y nP%eor 5mb	071	1UJ 4	1U1S	1U2N	1U24	1SUS	DDe
y nP%eor 5mb	N71	1U1	1U14	1U2S	1U1N	2U9-	DDe
u r no%b omb	19S71						dDw
u r no%b omb	19S72						dDw
u dkr P	6S72	1 U12	1NJ 9	1 U04	1 US0	- U64	DDe
8 EnwDEnpmw	- 172	1269UN9	120SU	12 1U1S	1209U N	1US9	DDe
8 nTswwomb	- 72	- 6N1UJ 2	- 660U22	- 000U6	- 0SNU04	1U62	DDe
CEnoomb	1S- 71				1S6		G
CEnoomb	1S- 72				1S2		G
I ds5oomb	4971				1S6		G
I ds5oomb	4972				0		G
I r P 5omb	N271	SU0	SUN	1U90	1USN	- U26	DDe
I r P 5omb	0072	4NU12	- 1UN0	46U1N	42US6	21U1S	DDe
I r P 5omb	0N72	0U9-	NUN	NUJ S	NU24	NU20	DDe
I dPdn5	2N71	10NUS1	10- U49	1N4US2	10NU4	2U 0	DDe
I dPgr p	1S071	SU1N	SU22	SU22	SU21	1SU12	DDe
I dPgr p	1S 71	SU2S	SU21	SU22	SU21	4U40	DDe
I nomb	2- 72	10SU 6	102U91	106UJ	10- U2	1U62	DDe
I Tpm5Tomb	N671	0U6N	1SSUS2	NU6N	NUNS	1U1	DDe
I Tpm5Tomb	NN71	1S- U4-	1S- U49	1S9U9-	1S4U14	1U16	DDe
I mPmp	- 471	71NN9U 4	710- SU14	716 2UN4	7106 U64		DDe
Ar pemb	19 71				1SN		G
Ar pemb	19 72				1S-		G
AEsPPmb	2S- 71	SUJ -	SUJ 2	SUJ N	SUJ 4	U21	DDe
AEsPPmb	2S971	SUJ 6	SUJ 2	SUJ 9	SUJ 4	6US-	DDe
Ad5	11N71	- U1-	- U26	- U24	- U21	2US0	DDe
AdS5omb	4071	1US9	2U -	2UN-	2U20	1U19	DDe
Rps5omb	2- N71	2U N	- US9	- US9	- US2	1UJ S	DDe

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdP:u sb r :J	S90qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5sodmb	9172	- SUS6	2 UN9	- 1U6S	- SU91	- U1-	DDe
YTTr pedmb	10271						dDw
YTTr pedmb	10272						dDw
YTTr pedmb	10671						dDw
YTTr pedmb	10672						dDw
YTTpdmb	N 71				111		G
YTTpdmb	N 72				1S6		G
Zd5d	6672	219U6	216U9	220U90	21 U9	- US1	DDe
Zqpdn5dmb	S71	2U9N	2U64	2UN1	2U6N	4U26	DDe
Zqpdn5dmb	171	2U69	2U9-	2U6	2U62	- U1	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	0hS2F24	0886FS-	0821F. 8	086hFh:	SF. 4	I I b
c n&Amon%	12171	SF04	SF8:	SF0h	SF0h	6F4:	I I b
c rsenAq	0: 72	hFh4	hF0:	hF68	hF0h	1F- h	I I b
BarAum	1- : 71	266F- 2	260F60	260Fh4	260F- 1	SF- 2	I I b
BarAum	1- 071	201F02	20- F46	20SF81	202FSS	SF4h	I I b
Ber%lAum	h71	1F4:	1F- 2	1F4-	1F4S	: FS1	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	1F1-	1F10	SF8-	1FS4	18FS6	I I b
RaOmAum	1S671	71F8S	71F28	71F11	71F4S		I I b
RaOmAum	11171	SF. :	SF4h	SF. -	SF. 2	: F. :	I I b
RalqAum	4- 71	16: 0- F- S	1682hF26	10S0hF. -	16820F- 6	1F. S	I I b
RalqAum	4471	101S8F. -	104- 6F66	10012F82	1041hF- 4	1F04	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	- 4F- 0	- 4F0h	- 4Fh:	- 4F0S	SF88	I I b
Robal&	: h72	11F- :	11F44	11F18	11F- -	1F18	I I b
Rol I er	6- 72	- 1F08	- 1F1-	- 1F26	- 1F- h	1F1S	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S8		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S0		G
DnOAum	11: 72				1S-		G
Don	: 472	21- - 2F41	2121- F68	21S44F64	211h6Fh1	SF68	I I b
Don	: 672	2Sh14F22	2S04SF61	2S0- 6F82	2S0h0F22	SF4h	I I b
Don	: 072	1h: 26F. 4	1h181F02	1h482F. 6	1h- h6Fh4	SFh0	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	14SF1h	1- 8FS:	1- 4F. 1	1- 0F. 8	2FS8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	12hF2S	128F. 0	124F86	120F. 4	1F84	I I b
LeaO	2S871	1- hF88	1- 0F- 8	1- 4F88	1- 0F- 8	1F82	I I b
LA&EAum	671				h0		G
MagnesAum	2472	- 812F26	- 0h4Fhh	- 8S: F1:	- 8S4F1-	SF2-	I I b
Manganese	: : 72	2Sh: Fh-	2S46Fh0	2S24F- 1	2S: : F0-	1F08	I I b
Mol%bOenum	h471	: F06	: F0-	: F04	: F0:	SF21	I I b
Mol%bOenum	h: 71	2F20	2FS-	2F2S	2F10	: F66	I I b
Mol%bOenum	h671	2F. 8	2F. 8	2F. 2	2F. 6	1F4:	I I b
Mol%bOenum	h071	2F16	2F1-	2F- S	2F2S	4F1S	I I b
Mol%bOenum	h871	2F28	2F20	2F- :	2F- S	1Fh2	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	10Fh:	18F21	18F- -	18F16	1FS8	I I b
PEosI Eorus	- 172	610F41	680FS0	6S4F68	6- 6F- h	6Fh0	I I b
Po&assAum	- h72	2S61F. :	2S- - FS4	2S: SF02	2S48F44	SF0S	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S:		G
pqanOAum	4: 71				1S0		G
pqanOAum	4: 72				1SS		G
pelenAum	8271	SF6S	SF42	SF08	SF6S	2hF- -	I I b
pelenAum	0072	- 6F28	2: F. 1	- 0F2-	- - FS1	1hF0-	I I b
pelenAum	0872	: F02	: Fh-	: F8S	: F82	1F08	I I b
pAAqon	2871	100F2h	108FSS	18- F2h	10hF. -	1F82	I I b
pAver	1S071	SF21	SF2:	SF24	SF2-	1SF20	I I b
pAver	1Sh71	SF2-	SF21	SF2-	SF22	: F42	I I b
poOAum	2- 72	26- Fhh	2: 8F2:	2: 1F80	2: 8FS4	2F- :	I I b
p&ona&um	8671	11- F82	11: FS2	114F- h	114F41	SF. -	I I b
p&ona&um	8871	11hF. 2	122F66	12SF11	12SF06	1F- 8	I I b
pulfur	- 471	721h- F64	71h: : F4:	71: h0FS-	71h1: F- 8		I I b
i erbAum	1: h71				1S8		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF26	SF24	SF24	SF2:	: F8:	I I b
i EallAum	2S: 71	SF26	SF28	SF24	SF26	0F18	I I b
i An	11871	4FS4	- Fhh	4FS6	4FS-	SF88	I I b
i A&anAum	4071	h1F40	h1F40	h2Fh:	h1Fh6	SFh-	I I b
UranAum	2- 871	1F02	1F6h	1F68	1F0S	1F1-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	: 172	2: F04	26F22	2: F28	2: F0:	1F82	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11S		G
Y&&Aum	8h72				112		G
ZAnq	6672	1- 4F2h	1- 2FS1	1- 1F4:	1- 2F. h	1F1-	I I b
ZAqonAum	hS71	2F2S	2F- 6	2F2h	2F28	- F60	I I b
ZAqonAum	h171	2F21	2F24	2F42	2F2h	: FS:	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	226- 1U51	22: - 1USS	25686U22	24545U01	16U44	I I b
c n&Amon%	12171	- 0U6-	41U66	42U-1	4SU-4	6U2:	I I b
c rsenAq	0: 72	0S1U68	6: SU-5	850U2S	045U82	10U-6	I I b
BarAum	1- : 71	1016U-:	1844U22	18: - U-:	18S4U64	4U24	I I b
BarAum	1- 071	101: U-6	1818U16	185: U6:	18S5U02	: USS	I I b
Ber%IAum	571	- U01	- U50	- U08	- U82	- U-S	I I b
BAsmu&E	2S571				112		G
BAsmu&E	2S572				50		G
BromAne	8171						ql s
v aOmAum	1S871	5U00	12U48	11U40	11U24	12U15	I I b
v aOmAum	1S671	5U84	8U66	5U5-	5U48	0U48	I I b
v aOmAum	11171	5U5S	1SU66	1SU5-	1SU-S	: U12	I I b
v alqAum	4- 71	- 4S21U66	- 0S: 6U54	- 6416U65	- : 8- 1U06	4U40	I I b
v alqAum	4471	- : 2S6U22	- 8SS1USS6	- 0466U--	- 6851U2S	4USS2	I I b
v arbon	1271						ql s
v arbon	1272						ql s
v ElorAne	- : 71						ql s
v ElorAne	- : 72						ql s
v EromAum	: 272	- 0U-S	- 8U8-	: 1U1S	42U48	10U6:	I I b
v obal&	: 572	22U00	2- U64	- SU64	2: U68	16U8S	I I b
v ol I er	6- 72	12: USS8	126U2-	16: U-1	1- 8U54	16U-0	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
. rbAum	16471						ql s
. rbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
h olmAum	16: 71				112		G
h olmAum	16: 72				56		G
DnOAum	11: 71				11S		G
DnOAum	11: 72				5-		G
Don	: 472	- 84- 0USS5	- 8- 0SU6-	: 1- 0- U6-	42020U12	10U--	I I b
Don	: 672	- 0525U84	- 8: 51U52	: S25: U1S	42202U25	16U4:	I I b
Don	: 072	- : : 0- U10	- 6211U-1	40564U5S	- 5516U--	10U48	I I b
Kr%I &on	8- 71						ql s
LeaO	2S671	6: 0U-5	65- U-2	015U5:	65SU-:	4U--	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	6: SU2	601U0	65- U2	601U81	- U2S	I I b
LeaO	2S871	66- U6-	651U84	0S5US-	688U10	- U-	I I b
LA&EAum	671				1S2		G
y aMhesAum	2472	11- 26U46	11458U82	14524US2	12: 8- U1S	16U1-	I I b
y anManese	: : 72	61S: U28	6245U18	822- U05	68: 5U42	10U26	I I b
y ol%bOenum	5471	04U5	81U8S	8SU8	08U86	4U55	I I b
y ol%bOenum	5: 71	46US4	: 1US0	: SU50	45U6	: U8-	I I b
y ol%bOenum	5671	45U05	: - U:	: 4U80	: 2U04	: USS	I I b
y ol%bOenum	5071	40U8S	: 1US5	: SU62	45U84	- U0	I I b
y ol%bOenum	5871	46U0	: SU02	: SU50	45U:	: U24	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	- : U25	- : U1	40U10	- 5U26	10U4:	I I b
PEosI Eorus	- 172	6448U4	66- 4U8S	8818U68	0- SSU60	18US:	I I b
Po&assAum	- 572	865- U2-	8685US:	1144- US	56S8U-	16U4	I I b
CEoOAum	1S- 71				1S8		G
CEoOAum	1S- 72				5:		G
pqanOAum	4: 71				111		G
pqanOAum	4: 72				5-		G
pelenAum	8271	SU44	SU28	1U16	SU6-	0: U06	I I b
pelenAum	0072	6: U5S	68US5	80U-	0- U00	1: U55	I I b
pelenAum	0872	14U66	14U84	2- U2S	10U0	20U06	I I b
pAAqon	2871	160U24	182U68	105U80	106U6S	4U66	I I b
pAger	1S071	11U20	12U5	12U8	12US1	: U6	I I b
pAger	1S571	11U00	12U4:	12U66	12U25	- U08	I I b
poOAum	2- 72	11S1U2	111- US	1: S1U4-	12- 8U82	18U6	I I b
p&ona&Aum	8671	42: U6S	40SU81	4: 6U0-	4: 1US4	: U1-	I I b
p&ona&Aum	8871	4- : U0:	404U6	466U5S	4: 5US0	4U48	I I b
pulfur	- 471	72S1SU08	71261U4	71- 42U5	71: - 8U24		I I b
i erbAum	1: 571				111		G
i erbAum	1: 572				5:		G
i EallAum	2S- 71	- US4	- US4	- U2:	- U11	- U54	I I b
i EallAum	2S: 71	2U5-	- U14	- U24	- U1S	: U1:	I I b
i An	11871	1U52	2U2-	2U20	2U14	8U00	I I b
i A&anAum	4071	4S- U6-	444U46	4- 5U1:	425US8	: U10	I I b
RranAum	2- 871	11U46	12U4-	12US	12US6	4U6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4467 21	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S07 12 1: 9269 14	t a&aFAe Name 9	S: 5c C. FUD

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	: 17 2	- 40U18	- : 6U61	464U60	- 85U45	16U06	I I b
Y&erbAum	1027 1						ql s
Y&erbAum	1027 2						ql s
Y&erbAum	1067 1						ql s
Y&erbAum	1067 2						ql s
Y&&Aum	857 1				118		G
Y&&Aum	857 2				1S1		G
ZAnq	667 2	1865U85	1512U26	2: 16U6:	2S55U6S	10U2-	I I b
ZAqonAum	5S7 1	2SU 5	22U6S	22U15	21U05	4U88	I I b
ZAqonAum	517 1	21U42	22U6:	22U45	22U15	- US2	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y h SF- 6	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdPP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2- - N: U4J	2- 1: JU0-	22J2: U6-	2- 1: 6UJ:	SUJJ	DDe
q5Tb n5%	12171	41U0-	- 0U21	41U-6	4SU10	6U-N	DDe
qpwr 5cd	0: 72	0- 2UJ0	0- : U4S	0- : USS6	0- 4U40	SU1N	DDe
Bspcmb	1- : 71	0- NUSN	6: JUSS6	0- : U00	01SUJ0	6U-2	DDe
Bspcmb	1- 071	0NNU22	0S2UN-	002U-:	0: 4U40	6USS2	DDe
Br p%PPmb	J71	4USS1	- U-S	- U06	- U06	6UNS	DDe
Bcvb mTE	2SJ71				1SJ		G
Bcvb mTE	2SJ72				1S-		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1- U-S	1SU24	12U2N	11UJ4	1- USS-	DDe
v sob cmb	1S671	NU2S	JU-4	1SUS0	JU20	1SU42	DDe
v sob cmb	11171	11U1J	1SU22	1SU46	1SU62	4U0-	DDe
v sPdcmb	4- 71	4- 662U-	- J4- : U2:	420S: U60	41J- 4U42	: U2J	DDe
v sPdcmb	4471	4460SU4-	4S4N6U-2	440N1U16	4- - 12U64	: U6:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- : 71						dDw
v EPhpc5r	- : 72						dDw
v Epmb cmb	: 272	- SUNJ	- SU-0	- SU-4	- SU6S	SUJS	DDe
v nesPT	: J72	22U-0	22U2J	22U2:	22U-1	SU20	DDe
v nDDr p	6- 72	1: NU6S	1: 6U1S	1: 0UJ-	1: 0U-4	SUN2	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				11S		G
h nPb cmb	16: 72				1S:		G
t5ocmb	11: 71				1SN		G
t5ocmb	11: 72				JN		G
tpn5	: 472	- 0140USS6	- 02S- UN-	- 62: JUNN	- 6N0SU26	1U44	DDe
tpn5	: 672	- 6- 66U44	- 61- 1UNN	- : 6: 4U-4	- 6S: SUJ:	1USS1	DDe
tpn5	: 072	- 42: 2U1S	- - 0J4U4:	- - 02NU-	- - J2: USS-	SUN4	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	6- NU1-	: : 1U66	6S4U-N	: JNU12	0U2J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF- 6	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	610U6	: 46US2	: J2U42	: N: U20	6U1J	DDe
Lr so	2SN71	620UJS	: 4JUJJ	6S2UJ	: J- U4-	6U6J	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	J60SU6:	J64- U2J	JN61UJ0	J02: UJS	1U2-	DDe
y s5Ms5r wr	: : 72	6440UN:	6- - : UJ:	62NSU20	6- : 4U6J	1UJ4	DDe
y nP%eor 5mb	J471	N6UJJ	06UJJ	N2U24	N1UN0	: U0:	DDe
y nP%eor 5mb	J: 71	: NUJ2	: 2U14	: 4UN2	: : U16	: UNS	DDe
y nP%eor 5mb	J671	61U6N	: 4U42	: NU6S	: NU2-	6U26	DDe
y nP%eor 5mb	J071	: NU6N	: - U4:	: 4UN:	: : U66	4UN0	DDe
y nP%eor 5mb	JN71	: NU0:	: - U1-	: : U44	: : U00	: US6	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	- 6U0:	- : UJ2	- 6UJ-	- 6UJ-	1U1:	DDe
8 EnwDEnpmw	- 172	: : 1: U2:	: : N: U2-	: 4: SUS4	: : 16UN4	1U2-	DDe
8 nTswwcmb	- J72	NNJ4U46	JSS0U44	NN2NUSS	NJSJUJ0	1US2	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
l ds5ocmb	4: 71				1SN		G
l ds5ocmb	4: 72				JJ		G
l r P 5cmb	N271	SUJS	SU6N	1US1	SUN6	1JU2N	DDe
l r P 5cmb	0072	: 0UJ4	: 1U21	: JUJ1	: 6U22	0UN4	DDe
l r P 5cmb	0N72	1- U21	16U0J	12U6-	14U21	1: UNN	DDe
l dcdn5	2N71	1J: UN2	10: U2-	1J1U1N	1N0U41	: U06	DDe
l dgr p	1S071	12USJ	1SU6-	11U4J	11U4S	6U4:	DDe
l dgr p	1SJ71	11UJ0	1SUJ:	11UJ0	11UJS	4U40	DDe
l nocmb	2- 72	1SS0UN1	1SS4U26	1SS1US0	1SS4UJN	SUJ4	DDe
l Tpn5Tcmb	N671	: : JUJ6	4NNU60	: - SU1-	: 26U26	6UNS	DDe
l Tpn5Tcmb	NN71	: 6- UJ-	: SJU66	: - NU02	: - 0U24	: USS	DDe
l mPmp	- 471	0142USN	: - 06U42	0S66U40	6: 2NUJ2	1: U2J	DDe
Ar pecmb	1: J71				1SJ		G
Ar pecmb	1: J72				1S4		G
AEs Pbmb	2S- 71	2UN1	2U44	2UJ0	2U61	0U2:	DDe
AEs Pbmb	2S: 71	2UN1	2U4S	2U0-	2U64	NU2J	DDe
Ad5	11N71	2USN	2U1J	2U11	2U1-	2U0-	DDe
Ad5 5cmb	4071	- 00UN6	- - : UJJ	- 60U4N	- 6SU24	6U1:	DDe
Rps5cmb	2- N71	1- US1	11U1:	12UJ-	12U16	0U06	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	- 1- UJ0	- 16U60	- 12UN0	- 14U S	SU62	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				114		G
YTTpomb	NJ72				1S4		G
Zc5d	6672	1N- 2U J	1N- 4UJ-	10J- U66	1N2SU4S	1U20	DDe
Zqpdn5omb	JS71	21U0:	1JU11	21U26	2SU01	6UNS	DDe
Zqpdn5omb	J171	22U44	1JU2N	21U2J	21U$S	0U J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UndTw
Pmb cncmb	2072	1- h6hFN-	1- N90F2h	1- 022FSS	1- N4hF01	SFhS	DDe
nTb on%	12171	SF09	SF06	SF0h	SF06	2F0N	DDe
pwr ncq	0972	N2FS2	N9F11	N6F46	N4F9-	2F6h	DDe
Bspcmb	1- 971	- 04F99	- N1F6S	- N- F49	- 0hFN0	1F24	DDe
Bspcmb	1- 071	- 0NF6-	- 0NFh1	- N4F4-	- NSF66	SFN6	DDe
Br p%PPmb	h71	1F69	1F6N	1F69	1F66	1F2N	DDe
Bcwb mTE	2Sh71				1S0		G
Bcwb mTE	2Sh72				1S9		G
Bpob cnr	N171						qDw
RsCb cmb	1SN71	1Fh6	1Fh4	2F1N	2FS2	6F6S	DDe
RsCb cmb	1S671	SF96	7- FS9	71FS2	71F10		DDe
RsCb cmb	11171	1F9-	1F- 9	1F- h	1F42	6F61	DDe
RsPqcmb	4- 71	1N- 1- F04	1N244Fh9	1N24- F- 6	1N260F- 9	SF22	DDe
RsPqcmb	4471	1h1- 4FNS	1hSS- F9S	1NN46F2S	1Nhh4FN-	SF06	DDe
Rspeon	1271						qDw
Rspeon	1272						qDw
REPpcnr	- 971						qDw
REPpcnr	- 972						qDw
REpob cmb	9272	22F91	22F49	22FS0	22F- 4	1FS0	DDe
RoesFT	9h72	16Fh1	10F94	16FN0	10F1S	2F1h	DDe
RoDDr p	6- 72	09F92	04FN6	04Fh2	09F1S	SF4N	DDe
&%wDpowcmb	19671						qDw
&%wDpowcmb	19672						qDw
Cpecmb	16471						qDw
Cpecmb	16472						qDw
HsCbPhcmb	16S71						qDw
HsCbPhcmb	16S72						qDw
y oPb cmb	16971				1Sh		G
y oPb cmb	16972				1S4		G
tnOcmb	11971				1S6		G
tnOcmb	11972				hh		G
tpon	9472	42NS6F21	42hS6FN9	4- S62F42	42h29F16	SF- S	DDe
tpon	9672	4264NF9N	42- 1SFNh	41N6NF02	42206FS6	SFh-	DDe
tpon	9072	42916FNN	42hN2F16	4199NF6N	42- 92F9N	1F01	DDe
Kp%DTon	N- 71						qDw
Lr sO	2S671	NhF91	N6F0h	N0Fh6	NNFSN	1F99	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UncTw
Lr sO	2S071	N9F92	N2FN2	N- FNh	N4FSN	1F62	DDe
Lr sO	2SN71	N6F4N	N4F9-	N0FS4	N6FS2	1F94	DDe
LdEomb	671				hh		G
Msgnr womb	2472	69h1FN6	6091FhS	66N9F46	6606F41	1F2S	DDe
Msngsnr wr	9972	hh6F6S	1SS1F6N	hh4F9-	hh0F6S	SF- 0	DDe
MoP%eOr nnmb	h471	12FS9	11FNh	11Fh6	11Fh0	SF66	DDe
MoP%eOr nnmb	h971	1FN6	1FNS	1F6-	1F06	6FN2	DDe
MoP%eOr nnmb	h671	2Fh1	2F06	2FN1	2FN-	2F6-	DDe
MoP%eOr nnmb	h071	1F6-	1F6N	1F01	1F60	2F29	DDe
MoP%eOr nnmb	hN71	1F04	1F0h	1F00	1F00	1F4S	DDe
u r oO%b omb	19S71						qDw
u r oO%b omb	19S72						qDw
u oqkr P	6S72	- - F24	- - F- h	- - F14	- - F26	SF- 0	DDe
8 EowDEopmw	- 172	- 62SFN-	- 4- 1F96	- - 4NF29	- 466FNN	4FS-	DDe
8 oTswwomb	- h72	92SNF- h	9- 91Fhh	9210F20	929hF22	1F9-	DDe
5 EoOomb	1S- 71				1S6		G
5 EoOomb	1S- 72				1S-		G
I qsnOomb	4971				1SN		G
I qsnOomb	4972				hh		G
I r Pnomb	N271	1Fh2	1F96	1F69	1F01	11FS0	DDe
I r Pnomb	0072	- 0F- -	4SF06	2hF94	- 9FNN	16FS2	DDe
I r Pnomb	0N72	NFN2	6F06	1SF6h	NF06	22F4h	DDe
I dqon	2N71	290F- 1	29- F0-	24SF- 2	29SF46	- F9N	DDe
I dPr p	1S071	SF- 6	SF4S	SF- 0	SF- N	9F6N	DDe
I dPr p	1Sh71	SF- h	SF- N	SF- 9	SF- 0	9FhS	DDe
I oOomb	2- 72	1hNF60	1h4F4h	1hhF02	1h0F6-	1F4S	DDe
I TponTomb	N671	162F6S	169F11	162FSh	16- F20	SFhh	DDe
I TponTomb	NN71	16NFh-	101F06	16hF20	16hFhN	SFh1	DDe
I mPmp	- 471	7h0NF4S	712N2F1N	71- 2SFNN	711h- FN2		DDe
Ar peomb	19h71				11S		G
Ar peomb	19h72				1S-		G
AEs Pbmb	2S- 71	SF- 6	SF- 9	SF- 6	SF- 9	2F10	DDe
AEs Pbmb	2S971	SF- 1	SF- 1	SF- 2	SF- 1	SF6S	DDe
Aon	11N71	1F46	1F94	1F91	1F9S	2F96	DDe
AdSnomb	4071	11hF46	110F- 0	119F4h	110F44	1F6h	DDe
Upsnomb	2- N71	- F- 4	- F20	- F- 9	- F- 2	1F20	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 sspsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UncTw
VsnsOomb	9172	9hF96	9NFh1	9hF9-	9hF- -	SF62	DDe
YTTr peomb	10271						qDw
YTTr peomb	10272						qDw
YTTr peomb	10671						qDw
YTTr peomb	10672						qDw
YTTpomb	Nh71				11-		G
YTTpomb	Nh72				1SN		G
Zonq	6672	- 2- FS2	- 1hFS6	- 10F06	- 1hFh4	SFN6	DDe
Zqpqonomb	hS71	9Fh1	9FN2	9Fh-	9FNh	SFh0	DDe
Zqpqonomb	h171	9FN6	6F44	6FS-	6F11	4FN6	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WJA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
c&umA5Aum	20:2	1F7a	1F52	1F 1	1F47	71F71	l l b
c5&Amn5h	121:1	SF51	SF51	SF5S	SF51	4aF26	l l b
crl e5Aq	0-:2	SF52	SF57	SF52	SF52	27Fa	l l b
BwrAum	17-:1	SF1S	SF51	SF54	SF5-	a0F60	l l b
BwrAum	170:1	SF17	SF52	SF51	SF56	121F-6	l l b
Berh&Aum	:1	SF52	SF52	SF51	SF52	74F1a	l l b
BAmu&%	2S :1				1S-		E
BAmu&%	2S :2				1S2		E
BrnmA5e	a1:1						ql l
CwOmAum	1Sa:1	:SF1S	:SF1S	:SF52	:SF50		l l b
CwOmAum	1S6:1	:6F22	:0Fa7	:6F2-	:6F00		l l b
CwOmAum	111:1	:SF54	:SF5-	:SF5-	:SF5-		l l b
Cw&qAum	47:1	2F 4	1F56	:SF1S	1F7S	110F 6	l l b
Cw&qAum	44:1	10F51	12F66	1-F2-	14F 0	14F64	l l b
Cwrbn5	12:1						ql l
Cwrbn5	12:2						ql l
C%&nrA5e	7-:1						ql l
C%&nrA5e	7-:2						ql l
C%nnmAum	-2:2	SF57	:SF57	SF12	SF54	1a-F0	l l b
Cnbw&&	- :2	SF5S	SF5S	SF5S	SF5S		l l b
CnI l er	67:2	SF26	SF1-	SF22	SF21	26F -	l l b
t hl l rnl Aum	1-6:1						ql l
t hl l rnl Aum	1-6:2						ql l
. rbAum	164:1						ql l
. rbAum	164:2						ql l
GwOn&5Aum	16S:1						ql l
GwOn&5Aum	16S:2						ql l
Hn&nAum	16-:1				1S4		E
Hn&nAum	16-:2				1S4		E
D5OAum	11-:1				1S4		E
D5OAum	11-:2				1SS		E
Dn5	-4:2	1Fa-	2F7-	1F5S	1F07	7 F22	l l b
Dn5	-6:2	SF0a	2F7a	1F4S	1F-2	-7F5S	l l b
Dn5	-0:2	:SF50	7F51	2F14	1F6	4F57	l l b
Krhl &n5	a7:1						ql l
LewO	2S6:1	SF17	SF5a	SF5a	SF1S	2aF6a	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&wUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
LewO	2S0:1	SF14	SF5	SF5	SF11	27F16	I I b
LewO	2Sa:1	SF12	SF5a	SF5	SF1S	27F46	I I b
LA&%Aum	6:1				-		E
y wW5el Aum	24:2	SF- -	1F-4	SFa	SF	- 1F5	I I b
y w5Mw5el e	- - :2	SF11	SF16	SF40	SF2-	0aF0a	I I b
y n8nbOe5um	4:1	SF56	SF5-	SF5S	SF54	a4F06	I I b
y n8nbOe5um	- :1	SF52	SF52	SF57	SF52	7- F26	I I b
y n8nbOe5um	6:1	SF56	SF52	SF51	SF57	00F4S	I I b
y n8nbOe5um	0:1	SF57	SF52	SF5S	SF52	1S4F-4	I I b
y n8nbOe5um	a:1	SF52	SF51	SF51	SF51	0SFaa	I I b
NenOhmAum	1- S:1						ql l
NenOhmAum	1- S:2						ql l
NAqke8	6S:2	:SF52	SF52	SF51	SF5S	1S- 6F2S	I I b
3%nl l %nrul	71:2	:0SF7-	:4 F- -	:71Fa6	:- SF-		I I b
3n&wl l Aum	7 :2	:SF60	:6F44	7F52	:1F76		I I b
v %nOAum	1S7:1				1S7		E
v %nOAum	1S7:2				1S4		E
pqw5OAum	4- :1				1S2		E
pqw5OAum	4- :2				6		E
pe&e5Aum	a2:1	:SF10	:SF27	:SF14	:SF1a		I I b
pe&e5Aum	00:2	1F S	:SF7a	:SF7a	SF7a	744F50	I I b
pe&e5Aum	0a:2	SF5	:SF1-	SF62	SF1	21SF0S	I I b
pA&qn5	2a:1	SF5S	:SF12	SF5S	:SF54		I I b
pA&ger	1S0:1	SF51	SF51	SF51	SF51	40F74	I I b
pA&ger	1S :1	SF52	SF52	SF51	SF52	7SF4	I I b
pnOAum	27:2	F64	0F7S	F41	aF0a	14F0S	I I b
p&n5&Aum	a6:1	SF50	SF50	SF1S	SF5a	21F12	I I b
p&n5&Aum	aa:1	SF5	SF54	SF57	SF5-	- 1F S	I I b
pu&ur	74:1	:270SFaa	:22 6F54	:2S42F-	:2276F-S		I I b
i erbAum	1- :1				1S4		E
i erbAum	1- :2				1S7		E
i %w&Aum	2S7:1	SF54	SF56	SF56	SF5-	24F2-	I I b
i %w&Aum	2S- :1	SF5-	SF54	SF5-	SF5-	12F	I I b
i A5	11a:1	:SF57	SF5S	SF5S	:SF51		I I b
i A&w5Aum	40:1	:SF54	:SF5-	:SF52	:SF54		I I b
Rrw5Aum	27a:1	SF5S	SF5S	SF5S	SF5S	144F07	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw8ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8Ae5&pwml &e9D 9J9	3Bp 21	t A&u&Ah59Uwq8ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
Vw5wOAum	-1:2	SF5S1	SF5S2	SF5S1	SF5S1	41F10	l l b
Y&erbAum	102:1						ql l
Y&erbAum	102:2						ql l
Y&erbAum	106:1						ql l
Y&erbAum	106:2						ql l
Y&&Aum	a :1				1S1		E
Y&&Aum	a :2				1S4		E
ZA5q	66:2	:SF5S0	SF12	SF1S	SF5-	222F66	l l b
ZAqn5Aum	S:1	SF5S1	:SF5S1	:SF5S2	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S7	SF5SS	:SF5S1	:SF5S1		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WUA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	72F-2	7-F--	77F6S	77FN	4F-2	l l e
c5&b n5h	12191	7FS0	7F1S	7F17	7F1S	SF 1	l l e
cpl r 5Aq	0-92	1F01	1F00	1FN	1F0	-F12	l l e
BwpAmb	17-91	1-F 1	1-F6	1-F7S	1-F67	1F 6	l l e
BwpAmb	17091	1-F20	1-F2	1-F7	1-F72	SF4S	l l e
Br ph8Amb	91	1F66	1F-4	1F-N	1F-	4FS0	l l e
BAb m8%	2S 91				1S7		E
BAb m8%	2S 92				1S7		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F77	1F-4	1F17	1F77	1-F67	l l e
CwCb Amb	1S691	92F74	94F74	92F71	97FSS		l l e
CwCb Amb	11191	1FNN	1F6-	1F61	1F02	NF--	l l e
Cw&pAmb	4791	00NF10	6 6F41	6 -F46	027F74	6F-6	l l e
Cw&pAmb	4491	0NNF66	0SSF-0	01NFN	076FS4	6F72	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	7F76	7F40	7F16	7F77	4F0	l l e
Cnew&&	- 92	1F0S	1F0	1F6	1F07	7F2-	l l e
CnI l r p	6792	7F-7	7FN6	7F62	7F60	4F-0	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8A5Amb	16S91						ql l
GwOn8A5Amb	16S92						ql l
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S4		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S1		E
Dpn5	-492	722F---	776F0N	77SF 6	77SF1S	2F10	l l e
Dpn5	-692	777F62	742F10	771F4N	77-F06	1F6	l l e
Dpn5	-092	71 F1-	77-F 1	724F4N	726F-1	2F62	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F-0	1F-S	1F-7	1F-7	2F2-	l l e

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J1-a41a47	t w&wUA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-N	1F-S	1F-N	4F-	I l e
Lr wO	2SN91	1F67	1F-2	1F-S	1F-	4F20	I l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N-1F S	S6F5-	N6SFN-	N02F 7	7F77	I l e
y w5Mw5r l r	- - 92	1F64	1F04	1F62	1F60	7F S	I l e
y n8neOr 5mb	491	F22	NF6	NF1	NF0S	- F 6	I l e
y n8neOr 5mb	- 91	0FN7	0F1S	0F7S	0F41	- F5	I l e
y n8neOr 5mb	691	0F S	0F56	0F4N	0F4N	- F-0	I l e
y n8neOr 5mb	091	NF17	0F21	0F52	0F4-	0F -	I l e
y n8neOr 5mb	N91	0F67	0F22	0F2S	0F7-	7F7-	I l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1F 0	1FN2	1F 1	4F46	I l e
3 %nl l %npm	7192	914F-4	9-NF27	9-6FN7	947F2S		I l e
3 n&wl Amb	7 92	N11F17	N4NFS6	NS-F00	N21F6-	2FNS	I l e
v %nOAmb	1S791				1SS		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4-91				1S1		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F42	NF07	0F--	0F S	F1-	I l e
: r 8 5Amb	0092	NF12	1SF51	FN-	F77	11F24	I l e
: r 8 5Amb	0N92	0F4S	F52	0F 1	NF11	1SF2S	I l e
: A8qn5	2N91	1F77	SFN7	SF 4	1F57	2-F24	I l e
: A8gr p	1S091	1F60	1F-	1F-S	1F-	- F74	I l e
: A8gr p	1S 91	1F62	1F-6	1F6S	1F-	1FN-	I l e
: nOAmb	2792	N77F-	NN7FN-	N16F16	N44F-4	4F16	I l e
: 8qn5&Amb	N691	1F60	1F-0	1F-7	1F-	4F-7	I l e
: 8qn5&Amb	NN91	1F60	1F-4	1F-1	1F-0	- F21	I l e
: m6mp	7491	91266FSS	922N-F-	91 61F-0	91N70F02		I l e
i r peAmb	1- 91				1S4		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F-6	1F40	1F-S	1F-1	2F 0	I l e
i %w8Amb	2S-91	1F-0	1F-1	1F-6	1F-	2F50	I l e
i A5	11N91	SF5S	SF52	SF57	SF52	N2F4S	I l e
i A&w5Amb	4091	NF-4	0F7-	0F5N	0F66	1SF12	I l e
Rpw5Amb	27N91	1F-S	1F7-	1F70	1F41	- F0N	I l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 21	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WJA8 Ju wb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF-N	NF4	NF-2	NF-7	SF-2	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	NF66	NFSN	NF4	NF41	7F-	l l e
ZAqn5Amb	S91	1F-4	1F4-	1F41	1F40	4F04	l l e
ZAqn5Amb	191	1F6	1F70	1F4N	1F-1	1SF-4	l l e

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 944946	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1h26: F1S	1h- 0: F46	1hSh4F2S	1h244Fh2	SF04	I I b
c n&Amon%	12171	SF- 8	SF42	SF42	SF41	4F0:	I I b
c rsenAq	0: 72	18F0-	1hFS:	18F6:	18FB1	1F1-	I I b
BarAum	1- : 71	- : 1F6S	- 08F08	412F66	- 81FS1	8FS-	I I b
BarAum	1- 071	- 6: FB2	- 8SF66	410F0h	- 88FSh	6FhS	I I b
Ber%lAum	h71	1F16	1F28	1F- 0	1F20	8F. 4	I I b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F16	SF0:	SFh:	SFh:	21F68	I I b
RaOmAum	1S671	7- F28	74FS1	7SF01	72F60		I I b
RaOmAum	11171	SFB1	SF06	SFB:	SFB1	: F. 1	I I b
RalqAum	4- 71	- hS0SF08	42S- SFh1	4: - S1F01	421- 4F46	0F4S	I I b
RalqAum	4471	- h82hFB1	4- 164F00	46ShSFS0	4- S28F21	0F28	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	2- Fh1	22FBS	2- F11	2- F20	2F46	I I b
Robal&	: h72	1- F4S	1- F. :	1- F0h	1- F. 8	1F40	I I b
Rol I er	6- 72	- 2F. -	- 2Fh6	- 2F24	- 2F. 0	1F11	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S4		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	- 6126F1h	- 06S1Fh6	- 6242F1:	- 66: 6F00	2F24	I I b
Don	: 672	- 6: 00F0S	- 062hF- 6	- : h10FSS	- 60S8FS2	2F- :	I I b
Don	: 072	- 44S6F6:	- 4612F68	- 4146FB0	- 4- 88F0-	SF68	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	: 1F0:	: : F60	: hF0h	: : F04	0F21	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 944946	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4hFS6	: 2F62	: 6F0:	: 2FB1	0F2h	I I b
LeaO	2S871	: SF4-	: 4FS-	: 8F0-	: 4F4S	0F64	I I b
LA&EAum	671				1SS		G
MagnesAum	2472	1: 626F2:	1: 88: F46	1: h6- F21	1: 824Fh0	1F11	I I b
Manganese	: : 72	60- F06	682Fh1	66hF4-	60: F- 0	1FS2	I I b
Mol%bOenum	h471	4F0:	: F40	: F62	: F28	8F08	I I b
Mol%bOenum	h: 71	1F4h	1F6S	1FBS	1F6-	hF4h	I I b
Mol%bOenum	h671	1F00	2F1S	2F1:	2FS1	1SF42	I I b
Mol%bOenum	h071	1F. 1	1F66	1F66	1F61	: F- :	I I b
Mol%bOenum	h871	1F46	1F62	1FB6	1F6:	12FSh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	20F- 0	28FSS	20F- 1	20F. 6	1F- h	I I b
PEosI Eorus	- 172	1h8- F04	2Sh2F40	1hh0F- 0	2S24F. 2	2Fh-	I I b
Po&assAum	- h72	624hF21	62- 2FhS	6264F62	6248Fh1	SF2:	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S1		G
pqanOAum	4: 71				1Sh		G
pqanOAum	4: 72				h8		G
pelenAum	8271	SF- h	SF. 8	SFh4	SF64	44F1:	I I b
pelenAum	0072	2SF10	2: F4S	- : F. 2	20FS-	28FB8	I I b
pelenAum	0872	0F48	0F- S	4FB2	6F. -	22FB2	I I b
pAAqon	2871	21: FB1	2- 2F- S	2: 1F20	2- - F1-	0F61	I I b
pAver	1S071	SF- 1	SF24	SF20	SF28	1- F20	I I b
pAver	1Sh71	SF2h	SF2h	SF- :	SF- 1	11F00	I I b
poOAum	2- 72	4: 1FB8	40- F1h	466F1:	46- F04	2F- 4	I I b
p&ona&um	8671	- - 2F28	- 0- F- h	- 8- F1S	- 62Fh2	0F4-	I I b
p&ona&um	8871	- 41FS1	- 8SF1h	- 8hF- 0	- 0SF1h	6Fh4	I I b
pulfur	- 471	72S6hF- 0	7144hFB2	78S1F62	7144SF20		I I b
i erbAum	1: h71				112		G
i erbAum	1: h72				1S:		G
i EallAum	2S- 71	SF- 6	SF42	SF4S	SF4S	0F08	I I b
i EallAum	2S: 71	SF4S	SF4S	SF44	SF41	: FB4	I I b
i An	11871	1FS6	1F16	1F- -	1F1h	11F40	I I b
i A&anAum	4071	8hF28	h0FB-	1S1F- S	h6F14	6F4-	I I b
UranAum	2- 871	2FS0	2F1-	2F- 4	2F18	6F68	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: : F- S	: : Fn:	: : F20	: : F. 1	SF68	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11-		G
Y&&Aum	8h72				1S6		G
ZAnq	6672	168F0-	101FS1	164F. 8	168F11	1Fn4	l l b
ZAqonAum	hS71	2FS1	2F- h	2F44	2F28	1SF28	l l b
ZAqonAum	h171	2FS6	2F- 0	2F. -	2F- 2	1SF- S	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1624SF0-	1: 064FSS	1: 62: F00	1: 806F8-	2FS-	I I b
c n&Amonh	12171	SF= 4	SF4:	SF= %	SF= %	1- F2%	I I b
c rsenAq	0: 72	21F28	21F88	2SF4%	21F22	- F28	I I b
BarAum	1- : 71	- 16F2S	- 6- F6S	- 26F68	- - : F4%	0F42	I I b
BarAum	1- 071	- 18F. 4	- 64F8%	- - %F06	- 41FS0	6F8S	I I b
BerhlIAum	%71	1FS-	1F22	1FS2	1FS%	1SF6%	I I b
BAsmu&E	2S%71				1S-		G
BAsmu&E	2S%72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	SF0%	1FS2	SF04	SF8:	10F41	I I b
RaOmAum	1S671	72F%6	7SF2S	1FS4	7SF01		I I b
RaOmAum	11171	SF08	SF8:	SF06	SF8S	6F= -	I I b
RalqAum	4- 71	- 6S: %F64	4S248F= %	- 6002F8%	- 06% F64	: F%	I I b
RalqAum	4471	- 6: 80FS:	41%%%F1-	- 6%6%F0%	- 8: 18F66	0F84	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1%F: %	1%F: 0	1%F: 4	1%F: 0	SF1:	I I b
Robal&	: %72	12F08	12F%8	12F62	12F0%	1F= 8	I I b
RoI I er	6- 72	20F88	20F: 4	20F6-	20F68	SF6-	I I b
t hsI rosAum	1: 671						ql s
t hsI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S:		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S-		G
DnOAum	11: 72				1SS		G
Don	: 472	- - : 01F01	- - 264F= 4	- 28: SF06	- - 228F%4	1FS%	I I b
Don	: 672	- - 1: 8F88	- 26%4F%	- 2: 04F24	- 28S%F= 6	SF%4	I I b
Don	: 072	- 1126F86	- 111- F41	- S1% F: %	- S811F28	1F04	I I b
Krhl &on	8- 71						ql s
LeaO	2S671	48F68	: 2F%d	: 1F= 2	: SF%0	4F2S	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	46F0%	: 1F86	4%F- %	4%F- :	: F14	I I b
LeaO	2S871	40F6%	: 2P%0	4%F- %	: SF52	: F- %	I I b
LA&EAum	671				%		G
MagnesAum	2472	122S2F02	1186- F4%	116- - F40	118%%F8%	2F41	I I b
Manganese	: : 72	6S8P%2	: %%P%6	: %6F24	6S1F01	1FS8	I I b
MolhbOenum	%471	4F66	: F- S	: FS-	: FSS	6F- 0	I I b
MolhbOenum	% 71	1F. 1	1F0-	1F6-	1F62	6F01	I I b
MolhbOenum	%671	1F88	2FS8	1P%6	1P%0	4P%4	I I b
MolhbOenum	%071	1F. -	1F82	1F. 8	1F64	%F64	I I b
MolhbOenum	%871	1F40	1F6%	1F. 6	1F. 0	6P%	I I b
NeoChmAum	1: S71						ql s
NeoChmAum	1: S72						ql s
NAqkel	6S72	20F41	26FS2	26F1S	26F. 1	2P%4	I I b
PEosI Eorus	- 172	148SF14	12%%F11	1- 0- F46	1- 84F24	6F. 0	I I b
Po&assAum	- %72	484: F22	460SF- 2	40- 0FS2	40: SF8:	1F86	I I b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4: 71				1S-		G
pqanOAum	4: 72				%%		G
pelenAum	8271	SF00	SP%	SP%,	SF88	1SP%8	I I b
pelenAum	0072	28F80	- %F41	- 1F- 1	- - F1%	16F62	I I b
pelenAum	0872	0F18	: F14	: F40	: P%,	18F40	I I b
pAAqon	2871	224FS6	248F44	242F1-	2- 8F21	: F- 1	I I b
pAver	1S071	SF28	SF- 2	SF20	SF2%	%P%%	I I b
pAver	1S%71	SF- 1	SF- 4	SF- S	SF- 2	0F0S	I I b
poOAum	2- 72	442F4-	4- 2FS%	428F44	4- 4F- 2	1F60	I I b
p&on&Aum	8671	2%0F41	- 22FS0	- S- F64	- S0F01	4F10	I I b
p&on&Aum	8871	- S2F1-	- - 4F42	- 16FS0	- 10F. 4	: F1S	I I b
pulfur	- 471	71440F21	7- 0: F26	712: - F- 2	71S2: F26		I I b
i erbAum	1: %71				1S6		G
i erbAum	1: %72				1S4		G
i EallAum	2S- 71	SF- 1	SF- -	SF- 0	SF- 4	8F10	I I b
i EallAum	2S: 71	SF- -	SF- :	SF- :	SF- :	2F86	I I b
i An	11871	SP%1	1FS%	1F- 4	1F11	1%F18	I I b
i A&anAum	4071	06F- 0	8- FS8	0: F60	08F- 0	: F22	I I b
UranAum	2- 871	1F08	1P%8	1F80	1F88	: F- S	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ane c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: SF%	: 2F2:	: SF%0	: 1F- 8	1F46	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				1S0		G
Y&&Aum	8%72				1S6		G
ZAnq	6672	1- 0F88	1- SF4:	1- : F%%	1- 4F00	2F80	l l b
ZAqonAum	%S71	1F%%	2F2S	1F%	2FS:	6F: S	l l b
ZAqonAum	%171	1F%8	2F2S	1F88	2FS2	0F%4	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18h: - F- h	1818: F2:	10: 1SFh:	18216F. -	- Fh6	I I b
c n&Amon%	12171	SF- S	SF- 4	SF- 1	SF- 2	: F04	I I b
c rsenAq	0: 72	16F22	1: F26	1: F- 4	1: F61	- F41	I I b
BarAum	1- : 71	: 04F46	: 61F. :	: 6: F8h	: 60F- S	1F16	I I b
BarAum	1- 071	: 8hF. 1	: 0- F. S	: 6hF12	: 00F- 0	1F86	I I b
Ber%lAum	h71	: F1 S	4Fh2	4Fh:	4Fhh	1Fh2	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	1F60	1F- 6	1FhS	1F64	16F4:	I I b
RaOmAum	1S671	: F20	6F- 4	- F. :	: FS:	20Fh-	I I b
RaOmAum	11171	1F4S	1F41	1F4-	1F41	1F1h	I I b
RalqAum	4- 71	12060F68	1- S00F80	120- 8F28	12861F28	1F46	I I b
RalqAum	4471	1- : 82F- h	1- 2: 6F6S	1- - : 1F. S	1- - h6F8-	1F2:	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1: F2-	14Fh0	14F44	14F88	2F0S	I I b
Robal&	: h72	1- F. 8	1- F- S	12Fh4	1- F28	2F42	I I b
RoI I er	6- 72	2hF44	28FS:	20FS:	28F18	4F26	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	: 800hF- S	: 8668F- 2	: 4h21F2-	: 04: 6F28	- F82	I I b
Don	: 672	: hS6- F. 6	: 684hF. S	: : 1S: F- -	: 0SS6F1-	- F48	I I b
Don	: 072	6S64SFh:	: 68h8Fh:	: 6S- hF86	: 08: hFh2	4F2-	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	06FhS	0: F08	04F- 6	0: F68	1F68	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	02Fh0	02F01	0SF- S	02FSS	2FS4	I I b
LeaO	2S871	00F21	0: Fh-	04F86	06FSS	1F: :	I I b
LA&EAum	671				h0		G
MagnesAum	2472	: 08hF62	: 612F0S	: - hhF48	: 6SSF6S	- F4h	I I b
Manganese	: : 72	- : S8F4h	- 4- 4F44	- 206F48	- 4S6F40	- F48	I I b
Mol%bOenum	h471	4F60	4F02	4F64	4F68	SFh:	I I b
Mol%bOenum	h: 71	2F- 1	2F4S	2F21	2F- 1	4FS2	I I b
Mol%bOenum	h671	2F: 1	2F: :	2F46	2F: 1	1F8:	I I b
Mol%bOenum	h071	2F- 4	2F- h	2F2:	2F- -	- FSS	I I b
Mol%bOenum	h871	2F- 6	2F2-	2F1-	2F24	4Fhh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	24F- h	2- F2-	22F46	2- F- 6	4F14	I I b
PEosI Eorus	- 172	1- : 0F2:	1- 88Fh4	1- 16F: 4	1- : 4F24	2F68	I I b
Po&assAum	- h72	h8- 6F40	h608F- 1	h16: F68	h: 6SF1:	- F60	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				hh		G
pelenAum	8271	2F0h	2F02	- FS1	2F84	: F28	I I b
pelenAum	0072	100F4-	101F- h	16: F: :	101F46	- F40	I I b
pelenAum	0872	- 2F64	- 6F88	- - F22	- 4F24	6F01	I I b
pAAqon	2871	2- : F- 0	2: SFh4	2- 6Fh:	241FSh	- F: :	I I b
pAver	1S071	SF2h	SF2h	SF26	SF28	6F6S	I I b
pAver	1Sh71	SF- S	SF- :	SF28	SF- 1	12F11	I I b
poOAum	2- 72	122Fh4	11- F84	1S: FS:	11- Fh:	0F8:	I I b
p&on&Aum	8671	0: F: 6	06F84	04F04	0: F01	1F4S	I I b
p&on&Aum	8871	82F11	0hFh8	00F61	0hFhS	2F82	I I b
pulfur	- 471	716- 6F64	71: 2hF1h	72SS- Fh6	7102- F26		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF: 1	SF: 1	SF48	SF: S	2F80	I I b
i EallAum	2S: 71	SF: -	SF: S	SF: 2	SF: 1	2F82	I I b
i An	11871	- F28	- F- :	- F1h	- F20	2F: 4	I I b
i A&anAum	4071	: 44F: S	: 60F- 4	: : SFh8	: : 4F20	2F12	I I b
UranAum	2- 871	4F- 0	4F- h	4F- :	4F- 0	SF: 1	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	42F16	41F41	- 8F. 4	4SF0S	4F0S	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				14-		G
Y&&Aum	8h72				1- h		G
ZAnq	6672	- - hF4S	- - 1F11	- 22F- -	- - SFh:	2F. 8	l l b
ZAqonAum	hS71	1F6-	1F6:	1F60	1F6:	1F22	l l b
ZAqonAum	h171	1F64	1F. :	1F62	1F6S	- FS4	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RlAn&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18: 08F28	18- : 2F- h	18284FSh	184S4Fh2	SFB4	I I b
c n&Amon%	12171	SF- S	SF2h	SF- 1	SF- S	- F- -	I I b
c rsenAq	0: 72	16FS0	16FS4	16F- 1	16F14	SFhS	I I b
BarAum	1- : 71	6S0F. 4	: h2F62	6S- F- :	6S1F10	1F28	I I b
BarAum	1- 071	612F60	6S8F18	6S0F02	6ShF. 2	SF4:	I I b
Ber%lAum	h71	: F11	4Fh6	: F10	: FS8	2F1:	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	1F- 1	1F42	1F- -	1F- 6	4F1:	I I b
RaOmAum	1S671	: Fh-	4F6S	6F12	: F. :	14Fh6	I I b
RaOmAum	11171	1F61	1F68	1F66	1F6:	2F42	I I b
RalqAum	4- 71	1- - S0F6:	1- 488F. h	1- 22- F- -	1- - - hFB6	1FS2	I I b
RalqAum	4471	1- 0h4F. S	1- 66: F2h	14SS4FS6	1- 821F28	1F24	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- : 71						ql s
RElorAne	- : 72						ql s
REromAum	: 272	14Fh8	1: F- 0	14FBS	1: FS:	1Fh1	I I b
Robal&	: h72	12Fhh	1- F1:	12FB0	1- FSS	1FS8	I I b
RoI I er	6- 72	20F- 0	20F12	20F1h	20F2-	SF48	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1Sh		G
y olmAum	16: 72				1S8		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1S-		G
Don	: 472	: 0: 4: F. :	: 88: 1F18	: h- 8SF- 6	: 8: h2F- 6	1F61	I I b
Don	: 672	: 8S1hF12	: 8h- : FSS	: 824hFh-	: 84S1F- :	SFB2	I I b
Don	: 072	: h664F1S	6SS- : FB:	: h6h6F24	: h0h8F0-	SF- 4	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	8SF- 6	0hFBS	08F- 2	0hF4h	1F- 2	I I b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	06F81	04F22	04F40	0: F16	1FhS	I I b
LeaO	2S871	8SF26	08F11	08F: :	08Fh0	1F44	I I b
LA&EAum	671				h8		G
MagnesAum	2472	: - 8SF61	: - h0F62	: - 02FhS	: - 8- F01	SF24	I I b
Manganese	: : 72	- - 04F6h	- 461F- 6	- 4- SF28	- 422F11	1F28	I I b
Mol%bOenum	h471	6F- -	4F61	4Fh0	: F- S	10FS6	I I b
Mol%bOenum	h: 71	2F4S	2F- -	2F42	2F- 8	1F8:	I I b
Mol%bOenum	h671	2F: 0	2F6S	2F64	2F6S	1F2S	I I b
Mol%bOenum	h071	2F4h	2F- 6	2F2h	2F- 8	4F- 6	I I b
Mol%bOenum	h871	2F42	2F2h	2F- 6	2F- 6	2F6h	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	2- F16	2- F41	2- F1S	2- F2-	SF0S	I I b
PEosI Eorus	- 172	1- 2hF: 4	1144F: 1	12h8FS0	12: 0F- 0	0F80	I I b
Po&assAum	- h72	868- F- 6	80S0F- 6	86h: F10	86h: F- S	SF14	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				1S2		G
pelenAum	8271	- FS2	- F06	2F61	- F1-	18F04	I I b
pelenAum	0072	1: 8F82	1: 4F: 4	162F- 2	1: 8F: 6	2F46	I I b
pelenAum	0872	- SF86	- - F20	- 2F64	- 2F26	- F88	I I b
pAAqon	2871	264F1h	201F6S	260F4h	260F06	1F- h	I I b
pAver	1S071	SF- -	SF- 2	SF- 1	SF- 2	- F46	I I b
pAver	1Sh71	SF- :	SF- -	SF- 8	SF- :	6FhS	I I b
poOAum	2- 72	2S2F68	2S- F12	2SSF81	2S2F2S	SF61	I I b
p&ona&um	8671	8- F64	82F6h	81F00	82F0S	1F1-	I I b
p&ona&um	8871	80Fhh	84F06	84F44	8: F0-	2F2h	I I b
pulfur	- 471	72S1- F6S	72S1hF1h	72- 21F00	72118F1h		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S8		G
i EallAum	2S- 71	SF: 6	SF: 8	SF: h	SF: 8	2F: 6	I I b
i EallAum	2S: 71	SF: h	SF: :	SF: 6	SF: 0	4FSh	I I b
i An	11871	: F2S	: FS-	: F- S	: F18	2F64	I I b
i A&anAum	4071	: h4F42	: h- F66	: 8- Fh2	: hSF60	SFhh	I I b
UranAum	2- 871	4F: :	4F42	4F4S	4F46	1F8-	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	: 172	4SF. S	41F2:	- hF80	4SF. 4	1F0S	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				142		G
Y&&Aum	8h72				142		G
ZAnq	6672	- 4: F- 4	- - 8F. 2	- 44F- 4	- 42F04	1FS8	I I b
ZAqonAum	hS71	1F. h	1F. 8	1F62	1F6S	1F4h	I I b
ZAqonAum	h171	1F. 6	1F61	1F6S	1F. h	1F42	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1 4S8F- S	1 - - F56	1 - 1- F4-	1 - 2F26	SF- 2	I I b
c n&Amonh	12171	SF6	SF60	SF62	SF64	4F2S	I I b
c rsenAq	0 72	- %F1%	- %F 8	- %FS8	- %F28	SF66	I I b
BarAum	1- 71	- 80FB-	4S- F0%	- %0FB-	- %6F48	2FS-	I I b
BarAum	1- 071	- 81F66	4S0F18	- %8F68	- % FB4	- F28	I I b
BerhllAum	%71	1FB0	1F0%	1F04	1FBS	- FB2	I I b
BAsmu&E	2S%71				111		G
BAsmu&E	2S%72				1S		G
BromAne	8171						ql s
RaOmAum	1S871	2F14	2F28	2F10	2F2S	- F 4	I I b
RaOmAum	1S671	7SF- 1	71F42	71FB8	71F2S		I I b
RaOmAum	11171	1FB%	1P%6	2F11	1P%%	F0S	I I b
RalqAum	4- 71	261% F2%	20444F24	260 FS2	260%8F18	2F- -	I I b
RalqAum	4471	201S0F18	282S%F0-	206%2F60	2066%FB6	1P%%	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 71						ql s
REIorAne	- 72						ql s
REromAum	272	2 F24	24F20	24FB4	24F08	1P%	I I b
Robal&	%72	22FS1	21P%6	21F	21FB4	1F16	I I b
RoI I er	6- 72	%2F6%	%, FB4	%2FS8	%2FB0	SP%6	I I b
t hsI rosAum	1 671						ql s
t hsI rosAum	1 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16 71				111		G
y olmAum	16 72				1S4		G
DnOAum	11 71				111		G
DnOAum	11 72				%%		G
Don	472	602- F- 0	S1%F62	1%F60	0 4F22	1F 0	I I b
Don	672	88- F- %	80%P%8	4 - 2F- 1	4- 1FB%	1F41	I I b
Don	072	6828F-	6 86F26	6- 14FB6	6 06F4%	SF4	I I b
KrhI &on	8- 71						ql s
LeaO	2S671	% F00	%4F 6	%6F18	% F S	SFB%	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S071	%. P%0	%1P%.	%2FS8	%2F66	1F2-	I I b
LeaO	2S871	% F- 2	%. F66	%4F12	%4F- 0	SP%1	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1- 86%F86	1- 020F41	1- %. 6FS-	1- 844F44	SF00	I I b
Manganese	72	1 4SF-	1 S0P%S	1 1 P%6	1 21F4S	1F11	I I b
MolhbOenum	%471	0F12	0F62	0F 8	0F44	- F0	I I b
MolhbOenum	% 71	- F12	- F21	- F1	- F16	1F4%	I I b
MolhbOenum	%671	- F- S	- F0S	- F62	- F 4	P%.	I I b
MolhbOenum	%071	- F11	- F- S	- F1%	- F2S	2P%	I I b
MolhbOenum	%871	- F1-	- F22	- FS8	- F14	2F2	I I b
NeoChmAum	1 S71						ql s
NeoChmAum	1 S72						ql s
NAqkel	6S72	4 F0%	46F24	46FS6	46FS-	SF4%	I I b
PEosI Eorus	- 172	- - %P%4	- - 8F86	- 6- 1F81	- 1SF2S	- P%6	I I b
Po&assAum	- %72	0 84F 2	0 24F 1	00- %F8	0616F2%	1F46	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4 71				11S		G
pqanOAum	4 72				%8		G
pelenAum	8271	1F0-	1P%4	1F88	1F8	F66	I I b
pelenAum	0072	SF 6	44F0-	- 6P%8	44FS%	1 F4	I I b
pelenAum	0872	8F2	1SF11	%F28	%F21	1SF11	I I b
pAAqon	2871	22%F41	24SP%4	2- P%4	2- F4-	2F4	I I b
pAver	1S071	SF 4	SF6S	SF 0	SF 0	4F 8	I I b
pAver	1S%71	SF	SF62	SF %	SF %	6F46	I I b
poOAum	2- 72	2- 8F48	228F- 1	222P%S	22%P%S	- F44	I I b
p&ona&um	8671	1 4F84	16SF-	1 %F4	1 8F21	1F80	I I b
p&ona&um	8871	162F80	16 F6	16 F84	164F0%	1FS1	I I b
pulfur	- 471	71- F16	7041F6-	71164P%0	71S80F2		I I b
i erbAum	1 %71				112		G
i erbAum	1 %72				1S4		G
i EallAum	2S- 71	SF4	SF4-	SF44	SF44	1F6-	I I b
i EallAum	2S 71	SF4S	SF46	SF42	SF4-	6F6%	I I b
i An	11871	1F 0	1F0-	1F6	1F6	4F64	I I b
i A&anAum	4071	1S0F14	11SF88	1S0F0	1S8F %	1F8	I I b
UranAum	2- 871	2F 4	2F 4	2F 1	2F -	SF02	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69-	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	172	0SF- S	0SF2	0SFS0	0SF21	SF10	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				116		G
Y&&Aum	8%72				111		G
ZAnq	6672	- 6- F- 8	- 61F10	- 6- F0S	- 62F0	SF- 8	I I b
ZAqonAum	%S71	2F64	2F6%	2F0S	2F68	1F1S	I I b
ZAqonAum	%171	2F 1	2F 6	2F02	2F6S	4F16	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y h SF22	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdPP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	11: - 4UN6	114NJU1N	11: 26UJ6	11: 10USS	SU21	DDe
q5Tb n5%	12171	SU60	SU60	SU64	SU66	- US4	DDe
qpwr 5cd	0: 72	44U0S	4- UJS	4: US-	44U4	1U1	DDe
Bspcmb	1- : 71	2J2U06	2N1US1	206U4-	2N- U4S	2UJ0	DDe
Bspcmb	1- 071	2JNUN-	20JU6-	2NSU2	2N6U-	- U0N	DDe
Br p%PPmb	J71	1U64	1U6S	1U2	1UJ	- U04	DDe
Bcvb mTE	2SJ71				1S0		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1U0	1UN2	2U2S	1UNS	22UJ:	DDe
v sob cmb	1S671	7SU4	SU2-	7SU24	7SU12		DDe
v sob cmb	11171	1U6N	1U06	1U60	1U0S	2UJ1	DDe
v sPdcmb	4- 71	- - S16U01	- S0- 6U41	- 126SU6:	- 1601U26	- U00	DDe
v sPdcmb	4471	- - JSSU0:	- 2- : 1U00	- 2S: 1U0N	- 206NU1S	- US-	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- : 71						dDw
v EPhpc5r	- : 72						dDw
v Epmb cmb	: 272	1JU0-	1JUS:	1JU0	1JU4:	1UN1	DDe
v nesPT	: J72	2: UN2	2: U1S	2: U1:	2: U:	1UJ	DDe
v nDDr p	6- 72	N0U66	N4U6-	N6U2N	N6U1J	1U06	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				1S6		G
h nPb cmb	16: 72				1S6		G
t5ocmb	11: 71				1S4		G
t5ocmb	11: 72				1SS		G
tpn5	: 472	: 6621U6-	: - - 62U24	: 4- N: UJN	: 40NJUJ:	- US4	DDe
tpn5	: 672	: : S16U02	: 2N0: UJJ	: 41NSU2-	: 4S24U1	2USS	DDe
tpn5	: 072	: 0S: SU44	: - - 6: UJ:	: : S14U40	: : 14- U62	- U:	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	J: U0S	J1U2	J1U61	J2UNN	2U64	DDe

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Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF22	&dPmTm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9 S	&sTsFdP u sb r 9	S6JqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JSU24	N0U1S	N0U0-	NNUJ6	1UNN	DDe
Lr so	2SN71	J- US6	NJU-6	NJUJ-	JSUN:	2U11	DDe
LdEmb	671				J0		G
y sM5r wmb	2472	1S104U4S	1S11SU21	1S1J0U4-	1S16SU6N	SU44	DDe
y s5Ms5r wr	: : 72	21SNUJN	2S4- UJ J	2SN2U10	2S00UJN	1U0	DDe
y nP%eor 5mb	J471	JU2S	JU1-	NUJ-	JUSN	1U6	DDe
y nP%eor 5mb	J: 71	4U6J	4UN	4U41	4U6	- U12	DDe
y nP%eor 5mb	J671	: U4-	: US:	: USN	: U1J	4US:	DDe
y nP%eor 5mb	J071	4U00	4U0S	4U6:	4U01	1U26	DDe
y nP%eor 5mb	JN71	4UNJ	4U66	4U-	4U0S	- UN0	DDe
u r no%b mb	1: S71						dDw
u r no%b mb	1: S72						dDw
u dkr P	6S72	: - U40	: 2UJ4	: - U6	: - U-	SU6-	DDe
8 EnwDEnpmw	- 172	2- S4U1N	2- 6- U2J	22- 6UJ1	2- S1U46	2U0:	DDe
8 nTswwmb	- J72	420- UJ	4S26U4	41J- U10	4164U44	- US-	DDe
CEnomb	1S- 71				1S2		G
CEnomb	1S- 72				1S-		G
I ds5omb	4: 71				1S4		G
I ds5omb	4: 72				JJ		G
I rP 5mb	N271	2U22	1U04	2USJ	2US2	12U0	DDe
I rP 5mb	0072	- 0U2N	41U01	40U2:	42USN	11UN6	DDe
I rP 5mb	0N72	0UJ0	NU04	NU11	NU20	4UJJ	DDe
I dPdn5	2N71	1JSU1S	1N2US6	1N1UJJ	1N4U02	2U-	DDe
I dPgr p	1S071	SU01	SU6-	SU66	SU60	: UN6	DDe
I dPgr p	1SJ71	SU0S	SU0S	SU0S	SU0S	SU62	DDe
I nomb	2- 72	201U46	202UJN	204UJ6	20- U1-	SU64	DDe
I Tpm5Tmb	N671	1: NU:	1: 1US4	14JU21	1: 2UJ-	- U24	DDe
I Tpm5Tmb	NN71	164UN:	16SUSS	1: 6UN	16SU4N	2UJ	DDe
I mPmp	- 471	NN12U06	001SU2-	N166U1N	N22JU0-	6U0-	DDe
Ar pemb	1: J71				1SN		G
Ar pemb	1: J72				1S-		G
AEsPmb	2S- 71	SUJN	SU4S	SUJJ	SUJJ	2UJN	DDe
AEsPmb	2S: 71	SU4S	SUJN	SUJ6	SUJN	: U2S	DDe
Ad5	11N71	1UNJ	1UN2	1U01	1UN1	: US-	DDe
AdS5mb	4071	J- UNJ	N: U1-	NNUJJ	NJUJ4	4UJ1	DDe
Rps5mb	2- N71	- US-	2UN:	2U0J	2UNJ	4U46	DDe

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Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9-S	&sTsFdP u sb r 9	S6JqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	62U-2	61U2N	61U-0	61U66	SUJ4	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				111		G
YTTpomb	NJ72				111		G
Zd5d	6672	2J6U4:	2JSUN4	2J- U-2	2J- U6S	SUJ6	DDe
Zqpdn5omb	JS71	- USJ	- USS	2UJ1	- USS	2UJS	DDe
Zqpdn5omb	J171	- U1S	2UJN	2UN2	2UJ6	4U00	DDe

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	y0y9.S1	y06S.2S	yy11.4-	y92- .21	S.9S	ppm
Aotiu Ooh	12171	S.61	S.64	S.69	S.64	%0%	ppm
Aesboic	0%72	16.- S	1%21	1%Sy	1%%	4.29	ppm
BaeiNu	1- %71	29y.94	2yS.%6	290.02	29y.- 0	S.%1	ppm
BaeiNu	1- 071	2y- .00	2y%SS	2y1.y-	2y- .%0	S.%	ppm
BbehlliNu	y71	2.6S	2.6y	2.%4	2.61	2.yS	ppm
Bisu NtE	2Sy71				1S9		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	- .S2	- .S1	2.4-	2.92	11.y%	ppm
Uadu iNu	1S671	S.42	1.yS	- .%0	1.y6	9S.- 1	ppm
Uadu iNu	11171	1.4-	1.- y	1.- y	1.4S	1.0%	ppm
UalciNu	4- 71	2- - - S.1S	2296- .1-	2- 22%60	2- 1- y.6-	1.S6	ppm
UalciNu	4471	241- 2.y6	24- 02.- S	2- 010.yy	24S04.42	1.- 9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%272	14.S2	1- .9%	14.- %	14.S0	1.91	ppm
UOmalt	%y72	1S.- 4	1S.- S	1S.- 4	1S.- -	S.21	ppm
UOppbe	6- 72	29.S0	20.y%	29.44	29.1%	S.y2	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5 emiNu	16471						cps
5 emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				1S9		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				1S6		G
IodiNu	11%72				y9		G
IeOo	%472	26S2- .4y	26469.6-	20S- y.40	26%1S.%	1.y2	ppm
IeOo	%672	26226.y0	2614%1%	2%9S- .2y	26S%9.40	S.96	ppm
IeOo	%072	24%14.%2	244y6.41	246- y.96	24%%S.26	S.- 2	ppm
KehptOo	9- 71						cps
Lbad	2S671	y4.%2	y2.6%	yS.90	y2.69	1.y0	ppm

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Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	yS.y1	yS.49	90.14	9y.%1	2.- 1	ppm
Lbad	2S971	y2.S4	y1.91	9y.6S	y1.1%	1.49	ppm
LitEiNu	671				yy		G
g avobsiNu	2472	6292.y%	6- 64.y-	6619.6-	6422.10	2.0-	ppm
g aovaobsb	%%72	%40.4S	%%S.y0	%%9.1-	%%2.10	S.yy	ppm
g OhmdboNu	y471	2- .1S	22.9-	22.2y	22.04	1.91	ppm
g OhmdboNu	y%71	1.- 4	1.42	1.- %	1.- 0	- .2%	ppm
g OhmdboNu	y671	- .%	- .%6	- .66	- .%9	1.y2	ppm
g OhmdboNu	y071	1.1%	1.- 0	1.4S	1.- 1	1S.%1	ppm
g OhmdboNu	y971	1.44	1.20	1.- %	1.- %	6.- 0	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	2S.19	2S.%	21.Sy	2S.6S	2.22	ppm
PEOspEOeNs	- 172	22S- .y9	2- 10.16	2- 60.%1	22y6.22	- .6%	ppm
POtassiNu	- y72	% 4- .yy	% S%- 1	% - S.4%	% 26.%9	S.- 0	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				1S9		G
r caodiNu	4%72				y0		G
r blboiNu	9271	1.S6	1.%6	1.2%	1.2y	1y.4-	ppm
r blboiNu	0072	%S.42	4S.- S	%2.1-	40.62	1- .4-	ppm
r blboiNu	0972	1S.44	9.9S	9.26	y.16	12.- 0	ppm
r ilicOo	2971	21- .Sy	2S6.94	21S.6%	21S.1y	1.%S	ppm
r ilRbe	1S071	S.%	S.%	S.%2	S.%	1.26	ppm
r ilRbe	1Sy71	S.6S	S.%6	S.%%	S.%0	4.04	ppm
r OdiNu	2- 72	1%0.%1	1%4.4S	162.%y	1%9.10	2.61	ppm
r teOotiNu	9671	112.24	1Sy.1%	1S0.91	1Sy.0-	2.S0	ppm
r teOotiNu	9971	110.%2	112.S4	114.- 1	114.62	2.4S	ppm
r NfNe	- 471	71- 24.%0	7149- .y0	711%9.%9	71- 22.- 0		ppm
TbemiNu	1%y71				1S6		G
TbemiNu	1%y72				1S-		G
TEalliNu	2S- 71	S.22	S.26	S.21	S.2-	12.S0	ppm
TEalliNu	2S%71	S.21	S.2-	S.2S	S.22	0.1S	ppm
Tio	11971	- .16	- .2%	- .4S	- .20	- .9S	ppm
TitaoiNu	4071	162.29	16S.2%	162.69	161.04	S.91	ppm
F eaoiNu	2- 971	2.0-	2.00	2.62	2.01	2.yy	ppm

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Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%172	- 9.66	- 9.- -	- y.%9	- 9.96	1.69	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				11-		G
YtteiNu	9y72				1Sy		G
Zioc	6672	220.91	229.y6	2- S.- 2	22y.S-	S.%%	ppm
ZiecOoiNu	yS71	12.- y	12.S2	11.y0	12.1-	1.96	ppm
ZiecOoiNu	y171	12.24	12.S6	11.02	12.S1	2.2S	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	h0 2F41	h62SFh2	h0S2F4-	h0S1Fh2	SF -	l l b
cn&mon%	12171	SF61	SF6S	SF64	SF61	- F12	l l b
crwenAq	0J72	1JF2	1JFh0	1JF1h	1JF4	2F06	l l b
BsrAum	1- J71	2 - F62	26 F44	2 1F26	200F00	2Fh4	l l b
BsrAum	1- 071	2 4F 6	202FSS	2 4F00	2 SFJ4	2F64	l l b
Ber%BAum	h71	2FJJ	2F41	2FJS	2F4h	2FhS	l l b
BAumu&E	2Sh71				11S		G
BAumu&E	2Sh72				1SJ		G
BromAne	171						ql w
RsOmAum	1S 71	2F6J	2F2S	2FJ-	2F46	hFJ4	l l b
RsOmAum	1S671	1F1-	71F44	71F06	7SF6h		l l b
RsOmAum	11171	1F40	1F- 1	1F- J	1F-	JFh-	l l b
RsRqAum	4- 71	2- 1h- F00	221h4F00	2- 4SSF- J	22h2hF6-	2F 1	l l b
RsRqAum	4471	2- 0 F2-	2- 2S1F02	2- 12FJS	2- 6- SF 2	1FJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REFrAne	- J71						ql w
REFrAne	- J72						ql w
REromAum	J272	14FS1	1- F0	1- F6-	1- F 1	1F4S	l l b
RobsR&	Jh72	1SFJ0	1SF1S	1SFJ6	1SF41	2FJ4	l l b
Rol l er	6- 72	2 F6-	2 F4S	2 F1J	2 F4S	SF J	l l b
t %wl rowAum	1J671						ql w
t %wl rowAum	1J672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFnAum	16S71						ql w
HsOoFnAum	16S72						ql w
y oFnAum	16J71				112		G
y oFnAum	16J72				1S6		G
DnOAum	11J71				11S		G
DnOAum	11J72				1SS		G
Don	J472	260 JFJ-	2014- FJh	26122Fh1	266 4FS1	1Fh4	l l b
Don	J672	26446F00	262- 1F40	26- 4JF60	26- 41F- S	SF41	l l b
Don	J072	24614F	24J64F6-	24- h1FJ1	24J2- F60	SF4	l l b
Kr%l &on	- 71						ql w
LesO	2S671	h- F62	hF4-	h2FJh	h1F	2F-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RAen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S071	0Fh2	6F12	hF2	0F00	1F 1	l l b
LesO	2S 71	hSF64	0F0h	hSF1h	hFJ4	1F02	l l b
LAEAum	671				1S1		G
MsgnewAum	2472	6- 00F 4	6- S2FS2	622JF- 2	6- S1F0-	1F21	l l b
Msngsnewe	JJ72	J62F1S	J4hF- 1	JJ2FSS	JJ4F40	1F22	l l b
MoP%bOenum	h471	22F- -	21F11	2- F1h	22F21	4F01	l l b
MoP%bOenum	hJ71	1F- J	1F- -	1F- J	1F- J	SF S	l l b
MoP%bOenum	h671	- FJh	- F-	- F 4	- F6S	6F-	l l b
MoP%bOenum	h071	1FJJ	1F- 2	1F4S	1F42	FS0	l l b
MoP%bOenum	h 71	1F44	1F- 0	1F- -	1F-	- Fh2	l l b
NeoO%mAum	1JS71						ql w
NeoO%mAum	1JS72						ql w
NAqkeP	6S72	2SF 6	2SF22	2SF- 4	2SF40	1F66	l l b
8 EowI Eoruw	- 172	220hF2	2- - SF41	22 6F2J	22h F6J	1F21	l l b
8 o&swwAum	- h72	J- 61F0h	J10JF- h	J2h F42	J20 FJ-	1F S	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S4		G
pqsnOAum	4J71				1S		G
pqsnOAum	4J72				h		G
pe?enAum	271	1F10	SF 2	1F60	1F22	- JF14	l l b
pe?enAum	0072	4SF04	JhFSJ	4SFJ-	46F00	22F04	l l b
pe?enAum	0 72	6F 1	hFSJ	F2S	FS2	14FSh	l l b
pAqon	2 71	2S0F- 0	2SSF16	216Fhh	2S F1	4FS6	l l b
pAer	1S071	SFJS	SF4h	SFJ1	SFJS	2F10	l l b
pAer	1Sh71	SFJ2	SFJS	SFJ	SFJ-	0Fh	l l b
poOAum	2- 72	166F4	1J6F14	16- F6-	162FS	- F2h	l l b
p&on&Aum	671	1S F- 0	1S- F4	1S F6J	1S6F 4	2F02	l l b
p&on&Aum	71	111FhS	1ShF1h	11JF41	112F16	2F0	l l b
pufur	- 471	712- SF01	716- JF60	71SJ6FJ6	71- S0F6J		l l b
i erbAum	1Jh71				112		G
i erbAum	1Jh72				1S4		G
i EsPAum	2S- 71	SF2-	SF1h	SF2-	SF21	11F20	l l b
i EsPAum	2SJ71	SF22	SF22	SF2-	SF22	2F J	l l b
i An	11 71	- F10	2Fh0	- FS1	- FSJ	- F44	l l b
i A&snAum	4071	161F06	1J4F6h	1JhF60	1J F01	2F2h	l l b
UrsnAum	2- 71	2F6h	2F6S	2F0S	2F66	2F1h	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t A&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J172	- hFJ-	- F1-	- F11	- FJh	2F1S	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				116		G
Y&&Aum	h72				11S		G
ZAnq	6672	226F- -	22hF01	224F6h	226Fh1	1F1-	l l b
ZAqonAum	hS71	12F21	11F01	12F26	12FS6	2FJ1	l l b
ZAqonAum	h171	12F 2	11FJJ	11Fh6	12F11	JF- J	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARminium	23O2	1J- 1.4J	1J74.2-	1969.72	1JJ7.OJ	- .9-	ppb
Antimony	1210 1	O.11	O.1-	O.14	O.1-	14.- 3	ppb
Arwenic	37O2	- .72	2.JJ	- .- 1	- .2-	1O.O9	ppb
Bsrium	1- 70 1	72.24	72.- 4	7- .JO	72.JO	1.67	ppb
Bsrium	1- 30 1	71.24	74.J9	7- .J9	7- .- 4	- .7-	ppb
BeryRRum	90 1	O.46	O.49	O.44	O.46	7.J6	ppb
Biwmuth	2O9 0 1				1O7		%
Biwmuth	2O9 0 2				1OO		%
Bromine	J1 0 1						cpw
Csdmium	1OJ 0 1	O.7O	O.J2	O.7O	O.61	29.J9	ppb
Csdmium	1O6 0 1	0- .1J	0- .64	02.13	0- .OO		ppb
Csdmium	111 0 1	O.2J	O.19	O.27	O.24	1J.- 1	ppb
CsRium	4- 0 1	4292.J4	4- 43.1O	4- 4J.32	4- 29.77	O.3-	ppb
CsRium	44 0 1	444- .69	4741.O1	4779.O9	4714.79	1.- 3	ppb
Csrbon	12 0 1						cpw
Csrbon	12O2						cpw
ChRorine	- 7 0 1						cpw
ChRorine	- 7 0 2						cpw
Chromium	72O2	2.64	2.32	- .O1	2.39	6.9O	ppb
CobsRR	79O2	1.9-	1.97	1.9J	1.97	1.4J	ppb
Copper	6- 0 2	7.42	7.4J	7.J3	7.79	4.47	ppb
Dywprowium	176 0 1						cpw
Dywprowium	176O2						cpw
Erbium	164 0 1						cpw
Erbium	164O2						cpw
GsdoRRnium	16O 0 1						cpw
GsdoRRnium	16O 0 2						cpw
HoRRnium	167 0 1				1O3		%
HoRRnium	167O2				1O1		%
Indium	117 0 1				1O6		%
Indium	117O2				96		%
Iron	74O2	4623.17	4311.O4	4937.1O	4331.1O	- .J1	ppb
Iron	76O2	4929.24	499J.OJ	7292.O6	7O3- .1-	- .JO	ppb
Iron	73O2	473- .J9	4631.33	4J9J.2J	4314.67	- .7-	ppb
Krypton	J- 0 1						cpw
Lesd	2O6 0 1	13.O3	13.6O	13.69	13.47	1.92	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.- 3	16.92	16.91	16.3-	1.J3	ppb
Lesd	2OJ01	16.9O	13.19	13.- 1	13.1-	1.2O	ppb
Lithium	601				97		%
Msgnewium	24O2	11J1.J1	1131.2-	129- .99	1217.6J	7.6O	ppb
Msngsnewe	77O2	1O4.O6	1O6.37	112.74	1O3.3J	4.O2	ppb
MoRybdenum	9401	4.4J	4.- 1	4.47	4.41	2.O6	ppb
MoRybdenum	9701	O.29	O.24	O.2J	O.23	J.73	ppb
MoRybdenum	9601	O.34	O.64	O.32	O.3O	3.J9	ppb
MoRybdenum	9301	O.2O	O.29	O.2J	O.26	13.J2	ppb
MoRybdenum	9J01	O.2J	O.29	O.24	O.23	1O.22	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	- .J2	4.11	- .91	- .97	- .3O	ppb
8howphoruw	- 1O2	- J2.6-	- 47.- J	- 7- .O2	- 6O.- 4	7.46	ppb
8otswwium	- 9O2	994.7O	992.97	1O67.96	1O13.JO	4.1O	ppb
Rhodium	1O- 01				1O-		%
Rhodium	1O- 02				99		%
Scsndium	4701				1O-		%
Scsndium	47O2				94		%
SeRenium	J201	0O.1-	0O.7J	0O.- 2	0O.- 7		ppb
SeRenium	33O2	1- .- 9	11.9J	12.J6	12.34	7.7J	ppb
SeRenium	3JO2	1.- 6	2.O-	- .- J	2.26	47.6-	ppb
SiRcon	2J01	- J.67	- J.J2	4O.43	- 9.- 1	2.77	ppb
SiRver	1O301	O.11	O.11	O.1O	O.1O	2.22	ppb
SiRver	1O901	O.12	O.11	O.11	O.11	4.93	ppb
Sodium	2- 02	29.33	2J.3O	- 6.22	- 1.76	12.J9	ppb
Strontium	J601	2O.- -	21.27	21.29	2O.96	2.79	ppb
Strontium	JJ01	2O.- 6	2O.96	2O.J4	2O.32	1.7-	ppb
SuRfur	- 401	02OJ9.O6	02- 2O.O9	022J7.J9	022- 1.6J		ppb
Terbium	17901				1O3		%
Terbium	17902				1OO		%
ThsRium	2O- 01	O.O6	O.OJ	O.O3	O.O3	14.31	ppb
ThsRium	2O701	O.O7	O.O6	O.O7	O.O7	3.4J	ppb
Tin	11J01	O.7-	O.72	O.64	O.73	11.24	ppb
Titsnium	4301	29.4-	29.J6	29.91	29.34	O.JJ	ppb
Ursnium	2- J01	O.7O	O.72	O.72	O.71	2.39	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CIrent Ssmpre ID :	MHOF2- L	DirRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	7102	3.44	3.44	3.J1	3.76	2.J4	ppb
Ytterbium	13201						cpw
Ytterbium	13202						cpw
Ytterbium	13601						cpw
Ytterbium	13602						cpw
Yttrium	J901				1O6		%
Yttrium	J902				93		%
Zinc	6602	44.43	4- .2O	46.46	44.31	- .6J	ppb
Zirconium	9O01	2.- -	2.- 4	2.42	2.- 6	2.O7	ppb
Zirconium	9101	2.19	2.- 9	2.46	2.- 7	7.J3	ppb

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RlAn&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	11814F52	11 h F1S	118- 8F2h	1180SF4h	SF6h	I I b
c n&Amon%	12171	1 F6S	1 F10	1 F58	1 F28	1F46	I I b
c rsenAq	0h72	2- F88	24F8S	26F58	24F 2	4F4-	I I b
BarAum	1- h71	024F 4	01SF21	018F0S	010F h	1F5-	I I b
BarAum	1- 071	0 SF -	0h6F11	06 F16	002F50	2F28	I I b
Ber%lAum	71	1- Fh4	1- F4-	12F 4	1- F- 1	2F-	I I b
BAsmu&E	2S 71				11S		G
BAsmu&E	2S 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	11Fh	1SF4h	11F11	11F5h	hF10	I I b
RaOmAum	1S671	hF86	0F- 6	8F8-	0F- h	2SF22	I I b
RaOmAum	11171	11F00	11F62	11F64	11F68	SF0-	I I b
RalqAum	4- 71	264SSF64	26h22Fh1	2h12hF 6	26S16F- 0	2F 0	I I b
RalqAum	4471	20- 1hF0S	206 F h	2h646F64	26880F4-	4F56	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	h F 8	61F4S	6SF4	6SF62	1F1	I I b
Robal&	h 72	12- F- h	124F88	12- F01	12- F 8	SF64	I I b
RoI I er	6- 72	8hF4	86F68	80F54	86F41	SF 4	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S8		G
y olmAum	16h72				1Sh		G
DnOAum	11h71				1S8		G
DnOAum	11h72						G
Don	h472	- S246Fh1	- S 14F86	- S 4SF 1	- S0SSF06	1F28	I I b
Don	h672	- S2- 1F12	- S2- 1F24	- Sh- SF18	- S- - SF8h	SFh0	I I b
Don	h072	28288Fh	28644F1h	2861SF58	28h14F28	SF6	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S6Fhh	1ShF42	1S- F11	1ShF52	1F60	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
LeaO	2S071	1S2F4-	F60	8F10	1SSFS	2F16	I I b
LeaO	2S871	1S- FhS	1S2F- 1	1S2F- 4	1S2F01	SF66	I I b
LA&EAum	671				0		G
MagnesAum	2472	0224Fh0	02hhFh	02 6FS2	02h8F0-	SF4	I I b
Manganese	hh72	0- F61	0h- F8	040F02	040FS0	SF 6	I I b
Mol%bOenum	471	24F 2	2hF41	2- F60	24F60	- F6h	I I b
Mol%bOenum	h71	1F48	1F- 6	1F41	1F42	4FS4	I I b
Mol%bOenum	671	- F86	- F 1	- F84	- F80	SF8	I I b
Mol%bOenum	071	1F48	1F- -	1F-	1F4S	hF46	I I b
Mol%bOenum	871	1F- h	1F41	1F4-	1F4S	- F12	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	14- F- 4	144F4h	144F86	144F22	SFhh	I I b
PEosI Eorus	- 172	24- - F21	26S8F 4	2h28F22	2h2- F46	- F4	I I b
Po&assAum	- 72	6SS6F14	6100F60	6Sh- FS8	6S08F 0	1F46	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4h71				1S0		G
pqanOAum	4h72				0		G
pelenAum	8271	1 F 2	1 F04	18F06	1 F48	- F22	I I b
pelenAum	0072	0SF- S	08FS2	0SF0-	0- FS2	hF 4	I I b
pelenAum	0872	28F- 1	- - FSh	28FhS	2 F h	8F 6	I I b
pAAqon	2871	261FS0	2h1F -	2- hF0h	24 Fh8	hF14	I I b
pAver	1S071	FS4	8F86	8F0S	8F86	1F 2	I I b
pAver	1S 71	FS	8F88	FSS	8F	1F16	I I b
poOAum	2- 72	2- 6Fhh	2h2F6	2- SFh0	2- F 4	4F00	I I b
p&onA&um	8671	126FS	11 F1	121F82	122F- 0	2F84	I I b
p&onA&um	8871	1- 1F6S	128F- 2	12hF- S	128F4S	2F4h	I I b
pulfur	- 471	7 08FS-	71S- SF22	7142hF2S	71144F48		I I b
i erbAum	1h 71				11S		G
i erbAum	1h 72				1S4		G
i EallAum	2S- 71	8F8	8F61	8F46	8F6h	2F4	I I b
i EallAum	2Sh71	8F 0	8F81	8F64	8F81	1F86	I I b
i An	11871	4F14	4FS1	4F2S	4F12	2F4h	I I b
i A&anAum	4071	181F02	1 2F1-	10- F14	182F- -	hF22	I I b
UranAum	2- 871	- FS2	2F 4	2F 8	2F 8	1F42	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
VanaOAum	h172	1hhF88	1h0F	1h0F86	1h0F24	SF0h	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8 71				114		G
Y&&Aum	8 72				11S		G
ZAnq	6672	4h F61	401F60	408F11	46 F8S	2FSS	I I b
ZAqonAum	S71	14FS6	1- F4-	1- F1S	1- Fh-	- Fh0	I I b
ZAqonAum	171	14FS4	1- F 1	1- F- 4	1- F00	2F01	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	11yyh.- 2	1y0S2.hh	12S2h.yS	1- Sh0.20	10.- 2	ppm
Aotiu Oo%	12171	S.42	S.41	S.44	S.42	- .4y	ppm
Aeaboic	0y72	11.P-	16.PS	1- .y-	14.Sy	10.h0	ppm
BJeiNu	1- y71	2hh.2S	- S1.06	- S6.4h	- S2.4P	1.22	ppm
BJeiNu	1- 071	- S- .4y	- S- .2h	- S2.Sh	- S2.h4	S.2y	ppm
Bbe%wiNu	h71	- .4y	- .20	- .4-	- .- P	2.h0	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				h6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.P0	1.yP	1.hP	1.P1	11.6y	ppm
UJdu iNu	1S671	7S.12	S.10	1.PS	S.61	16P.Py	ppm
UJdu iNu	11171	1.S1	1.1-	1.S0	1.S0	y.06	ppm
UJwiNu	4- 71	12hP1.4P	1206S.4h	1- S1- .SP	12h1P.- y	1.S0	ppm
UJwiNu	4471	1- - y2.41	1- Sh- .4y	1- 40P.P2	1- - SP.2-	1.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	16.h-	2- .- -	10.S4	1h.1S	1h.16	ppm
UOmJw	yh72	11.y4	1y.y4	12.S1	1- .S-	16.0h	ppm
UOppbe	6- 72	- - .SP	4- .0y	- 4.- 4	- 0.S6	1y.04	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOwoiNu	16S71						cpa
HJdOwoiNu	16S72						cpa
MOw iNu	16y71				111		G
MOw iNu	16y72				h6		G
IodiNu	11y71				1S0		G
IodiNu	11y72				h1		G
IeOo	y472	2h42- .42	- Py02.- 2	- S016.6S	- 2hS4.11	1y.Sy	ppm
IeOo	y672	2h1- 0.02	- h2P4.64	2hP- 0.61	- 20y- .- 2	10.- S	ppm
IeOo	y072	201yy.6h	- 6122.h0	2PSS4.6S	- S420.0y	16.20	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	P0.y2	Ph.Py	P4.y-	P0.- S	- .Sy	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	P4.y6	P4.P1	PS.00	P- .- P	2.02	ppm
LbJd	2SP71	Py.02	P0.- -	P2.Ph	Py.- 2	2.6-	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	y- P- .- y	0- 4y.2P	y640.06	612y.40	10.- P	ppm
g JovJobab	yy72	yyh.60	04y.y-	y0h.14	62P.11	16.26	ppm
g O%mdboNu	h471	14.6S	14.- h	14.y0	14.y2	S.0h	ppm
g O%mdboNu	hy71	S.h6	1.S1	1.S1	1.SS	- .S4	ppm
g O%mdboNu	h671	2.4y	2.y6	2.44	2.4P	2.6h	ppm
g O%mdboNu	h071	S.hh	1.S6	1.SP	1.S4	4.4-	ppm
g O%mdboNu	hP71	S.hh	1.SP	1.S2	1.S-	4.0-	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	2S.- P	2P.46	21.h4	2- .yh	1P.10	ppm
I EOapEOeNa	- 172	1624.Py	21- 6.2y	14P0.12	104h.41	1h.yy	ppm
I OtJaaiNu	- h72	4S14.46	y- 16.2S	4SP4.6-	4401.06	16.- 0	ppm
n EOdiNu	1S- 71				1SP		G
n EOdiNu	1S- 72				hy		G
r cJodiNu	4y71				1SP		G
r cJodiNu	4y72				Ph		G
r bwboiNu	P271	1.4P	1.12	1.12	1.24	16.P1	ppm
r bwboiNu	0072	40.yh	0h.- 1	62.h2	6- .20	2y.S0	ppm
r bwboiNu	0P72	1S.6P	10.42	11.1y	1- .SP	2P.0-	ppm
r iwcOo	2P71	1h0.yy	1hy.h4	1h0.- -	1h6.h4	S.44	ppm
r iwRbe	1S071	S.62	S.66	S.62	S.6-	- .- h	ppm
r iwRbe	1Sh71	S.64	S.60	S.6P	S.60	- .Sh	ppm
r OdiNu	2- 72	1y- .66	2- 0.yh	16- .0-	1P4.hh	24.00	ppm
r teOotiNu	P671	11- .60	116.y2	116.0h	11y.66	1.yS	ppm
r teOotiNu	PP71	11h.66	12y.S2	12- .S2	122.y0	2.21	ppm
r NwNe	- 471	721S6.40	722yS.1y	72SyP.y4	721- P.- h		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				h6		G
TEJwiNu	2S- 71	S.- 1	S.- 6	S.20	S.- 1	1- .hh	ppm
TEJwiNu	2Sy71	S.- 2	S.- -	S.2h	S.- 1	y.06	ppm
Tio	11P71	4.- -	4.- h	4.yy	4.42	2.yy	ppm
TitJoiNu	4071	1y2.4h	140.46	1yS.04	1yS.2-	1.0S	ppm
FeJoiNu	2- P71	- .- 1	- .41	- .24	- .- 2	2.yP	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- P.- 2	yS.yh	- P.0-	42.yy	16.- h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				114		G
YtteiNu	Ph72				1S-		G
Zioc	6672	1h1.Sy	26y.- 1	2S- .h4	22S.1S	1P.S-	ppm
ZiecOoiNu	hS71	0.hS	0.Ph	0.P2	0.P0	S.y4	ppm
ZiecOoiNu	h171	0.6P	P.S2	0.yy	0.0y	- .12	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	2072	121SPFn4	110PhF42	11h14F26	11h- 0Fn4	1F- n	ppm
Aotiu Oo%	12171	1F1-	SFnS	1FS1	1FS1	11Fnh	ppm
Aeaboic	0n72	1- FS6	12F1h	12F- 1	12Fn2	- F0n	ppm
BJeiNu	1- n71	- 66FP2	- S4Fn0	- SSFPP	- 24F22	11F4S	ppm
BJeiNu	1- 071	- 0SFPh	- S2F0P	- SSFn-	- 24FP0	12F20	ppm
Bbe%wiNu	h71	1F64	1F44	1F- -	1F40	1SF6S	ppm
Biau NtE	2Sh71				hP		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
RJdu iNu	1SP71	2Fn6	2F1h	- F20	2FP1	1hFPn	ppm
RJdu iNu	1S671	SF0h	7SF16	72FSP	7SF4P		ppm
RJdu iNu	11171	- FSh	2F60	2F4-	2F0-	12F2h	ppm
RJwciNu	4- 71	12664FS4	1Sn62FnS	hP41F61	11S22F02	1- F- S	ppm
RJwciNu	4471	1- S42F06	11SS- F62	1S2S6Fh2	11410F00	12FP1	ppm
RJemOo	1271						cpa
RJemOo	1272						cpa
REWOeiob	- n71						cpa
REWOeiob	- n72						cpa
REeOu iNu	n272	2PF1-	20F- h	20F44	20F66	1FnS	ppm
ROmJwv	nh72	PF6h	PFnP	PFnn	PF61	SFP-	ppm
ROppbe	6- 72	41FSP	- hF6S	- hFPh	4SF1h	1Fn6	ppm
D%apeOaiNu	1n671						cpa
D%apeOaiNu	1n672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
y Ow iNu	16n71				h0		G
y Ow iNu	16n72				1S6		G
IodiNu	11n71				h0		G
IodiNu	11n72				hh		G
IeOo	n472	2n004F2n	2n20nFSS	24PPSFhn	2n- 1SFS0	1F00	ppm
IeOo	n672	2n162F60	24n24F02	241S6FP0	24nhPFSh	2F16	ppm
IeOo	n072	2- Sh1F06	22h- 0F- S	2260SF- 0	22PhhFP1	SFn-	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21PF41	104F2P	16hF60	1P0F4n	14F- 6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwbot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
LbJd	2S071	211F1P	160F61	16- Fn6	1PSF0P	14F61	ppm
LbJd	2SP71	222FPP	1PSF4P	102Fn4	1h2F1S	14FS1	ppm
LitEiNu	671				hS		G
MJgobaiNu	2472	- 2- - Fnh	- 1- 6F04	- 16nF4h	- 10PF04	1Fn0	ppm
MJogJobab	nn72	0nnFn4	040FPn	042F1P	04PF66	SFn2	ppm
MO%mdboNu	h471	nF0S	4FPP	4F46	nFS1	12F6S	ppm
MO%mdboNu	hn71	1FP0	1F01	1F4P	1F6h	11F4-	ppm
MO%mdboNu	h671	2F24	1Fn0	1Fn4	2FSn	PF24	ppm
MO%mdboNu	h071	2F11	1F64	1F6P	1FP1	14F- h	ppm
MO%mdboNu	hP71	1FPh	1Fn4	1Fn6	1F66	11Fn0	ppm
8 bOd%u iNu	1nS71						cpa
8 bOd%u iNu	1nS72						cpa
8 ickbw	6S72	16FPS	16F2S	1nFn-	16F1P	- Fn-	ppm
I EOapEOeNa	- 172	2- - - F42	224PF24	22S6FnP	2262F04	2FP6	ppm
I OtJaaiNu	- h72	41hPFn6	41- 4F- 1	4120FS4	41n- F- S	SFnn	ppm
5 EOdiNu	1S- 71				h6		G
5 EOdiNu	1S- 72				1S4		G
r cJodiNu	4n71				hn		G
r cJodiNu	4n72				hn		G
r bwboiNu	P271	1F2S	SFn0	SFP1	SFnh	1hF0P	ppm
r bwboiNu	0072	- PF2n	24FP1	4- F04	- nF6S	20F- n	ppm
r bwboiNu	0P72	6FP-	nF20	0Fn4	6Fnn	10F0-	ppm
r iwcOo	2P71	1hSF- n	1n6F60	140F- S	164F00	1- F04	ppm
r iwbe	1S071	2F0-	2F2P	2F10	2F- h	12F- S	ppm
r iwbe	1Sh71	2F66	2F2-	2F2h	2F- h	hF6S	ppm
r OdiNu	2- 72	144F4n	1- 4FS0	142Fnn	14SF4h	- Fnh	ppm
r teOotiNu	P671	1nPFP1	12PF42	12nF0n	1- 0F66	1- F- 4	ppm
r teOotiNu	PP71	102F2S	1- 4F20	1- SF46	14nF64	1nFPn	ppm
r NwNe	- 471	hn1Fnn	71S- nFn4	710S- FSn	7nhnF6P		ppm
TbemiNu	1nh71				hP		G
TbemiNu	1nh72				1S4		G
TEJwiNu	2S- 71	SF- 1	SF20	SF20	SF2P	hF62	ppm
TEJwiNu	2Sn71	SF- S	SF22	SF2n	SF26	1nF62	ppm
Tio	11P71	0F0n	6F- 2	6F12	6F0-	1- F2n	ppm
TitJoiNu	4071	2S- FPP	160F6n	1n4FP-	10nF4n	14FnS	ppm
UeJoiNu	2- P71	2FnS	2F- S	2F2-	2F40	14F0h	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n172	4nF06	44F4n	4nF41	4nF21	1F4h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				1S1		G
YtteiNu	Ph72				1S4		G
Zioc	6672	- nPf64	- nnF40	- n- FP1	- nnFh0	SF6h	ppm
ZiecOoiNu	hS71	2F- P	1Fnh	1FP-	2FS0	1- Fh1	ppm
ZiecOoiNu	h171	2FnP	1FPh	1FP0	2F11	1hFSS	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1S148F89	h8hhF9S	h94SFh0	h86- F11	- F1S	I I b
c n&Amon%	12171	SF99	SF94	SF92	SF9-	2F02	I I b
c rsenAq	0972	11FS4	1SFh0	1SFS8	1SF0S	9FS-	I I b
BarAum	1- 971	22- F- 1	21- F28	221F9S	21hF- 6	2F44	I I b
BarAum	1- 071	22SF- 6	211Fh-	22- F99	218F61	2F09	I I b
Ber%lAum	h71	1FS2	1FS0	1F11	1FS0	4F1h	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F09	1Fh6	2F09	2F19	24F- 2	I I b
RaOmAum	1S671	72F6S	72F62	7SF1h	71FBS		I I b
RaOmAum	11171	2F41	2FS2	2F20	2F2-	8FB9	I I b
RalqAum	4- 71	6242Fh0	6111F68	6100F02	6100F46	1FS6	I I b
RalqAum	4471	6664F92	64- 6FS0	6444F2h	6914Fh6	1Fhh	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 971						ql s
REIorAne	- 972						ql s
REromAum	9272	2- F4h	22Fh2	22F6h	2- FS-	1F08	I I b
Robal&	9h72	0F40	0F19	0FS0	0F2-	2Fh-	I I b
RoI I er	6- 72	2hFBh	2hF44	28F0-	2hF- 9	2FSS	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S6		G
y olmAum	16972				1S4		G
DnOAum	11971				1S6		G
DnOAum	11972				h8		G
Don	9472	18h1hF28	10h26F60	10646FS0	18164FS1	- F68	I I b
Don	9672	1h842FB6	1h911F4S	1882hFS2	1h- h4F42	2F60	I I b
Don	9072	18- 89F6S	1816SFS-	10410F21	10h80F61	2FB2	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	194F99	14hFS2	19- FB8	192F4h	1Fh8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	148F- 6	149F59	140F29	146F8h	1F14	I I b
LeaO	2S871	161F- 4	196F50	198F99	198F69	1F66	I I b
LA&EAum	671				h8		G
MagnesAum	2472	224hF65	22S1F42	2Sh0F45	2182F81	- F96	I I b
Manganese	9972	0hSF62	06- F46	049F1-	066F4S	2Fnh	I I b
Mol%bOenum	h471	- F42	- F44	- F4h	- F49	SFn8	I I b
Mol%bOenum	h971	SFnh	1F5S	1F59	1F51	- F1-	I I b
Mol%bOenum	h671	1F18	1F20	1F- S	1F29	4Fnh	I I b
Mol%bOenum	h071	1F59	SFn1	SFn4	SFn0	0F08	I I b
Mol%bOenum	h871	SFnh	SF88	SFn4	SFn4	9F96	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	16F52	19F- 4	19F26	19F94	2F0S	I I b
PEosI Eorus	- 172	1- h0F94	1289F90	1189FnS	128hF60	8F21	I I b
Po&assAum	- h72	2994F04	2918F91	2- 0hF06	2484F- 4	- F02	I I b
5 EoOAum	1S- 71				1S4		G
5 EoOAum	1S- 72				1S4		G
pqanOAum	4971				1S9		G
pqanOAum	4972				h9		G
pelenAum	8271	SF6S	SFnh	SF01	SF06	26F9S	I I b
pelenAum	0072	- 4F42	- 0F41	22F40	- 1F4-	29F19	I I b
pelenAum	0872	- Fn9	9F46	4F- 2	4F98	10F2S	I I b
pAAqon	2871	2ShF91	2S2F89	2S0F16	2S6F9S	1F64	I I b
pAver	1S071	1F89	1F88	1Fn6	1FnS	- F5S	I I b
pAver	1Sh71	1Fn0	1Fn-	2F5-	1Fn0	2F40	I I b
poOAum	2- 72	1h6F66	18hF68	182F5h	18hF48	- F84	I I b
p&ona&um	8671	86F88	86F89	88F98	80F44	1F1-	I I b
p&ona&um	8871	80Fn9	89F4-	80F98	86Fnh	1F96	I I b
pulfur	- 471	72298F- 0	720h2F9S	72409F89	729S8FnS		I I b
i erbAum	19h71				1S6		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF1h	SF2S	SF22	SF2S	8F10	I I b
i EallAum	2S971	SF18	SF1h	SF18	SF1h	- F9-	I I b
i An	11871	4F59	- Fn9	4F56	4F52	1F94	I I b
i A&anAum	4071	1S1F9S	1SSF14	1S2F80	1S1F9S	1F- 4	I I b
UranAum	2- 871	1F09	1F01	1F0-	1F0-	1F24	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	- 0F14	- 4F96	- - FhS	- 9F2S	4F86	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S0		G
Y&&Aum	8h72				1S1		G
ZAnq	6672	284F10	206Fh9	20SF91	200F21	2F40	l l b
ZAqonAum	hS71	1F44	1F49	1F46	1F49	SF9-	l l b
ZAqonAum	h171	1F9-	1F94	1F42	1F4h	4F49	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1S161.- -	1S1yS.0P	1S214.Sy	1S1PP.0-	S.26	ppm
Aotiu Ooh	12171	S.4-	S.4%	S.4S	S.4-	6.6y	ppm
Aeaboic	0%72	P.P6	y.46	P.y1	y.SP	- .6P	ppm
BJeiNu	1- %71	240.- 2	242.S6	216.0P	2- %- y	6.y4	ppm
BJeiNu	1- 071	2%S.01	242.0y	222.1S	2- P.%	6.1y	ppm
BbehwiNu	y71	1.1P	1.16	1.S%	1.1-	%y1	ppm
Biau NtE	2Sy71				11%		G
Biau NtE	2Sy72				1S%		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6y	2.S4	1.20	1.60	22.y6	ppm
UJdu iNu	1S671	71.4y	7- .01	72.12	72.44		ppm
UJdu iNu	11171	1.62	1.%P	1.%2	1.%0	- .S1	ppm
UJwciNu	4- 71	2141%2-	2124P.%0	1P%2P.22	2S- y0.- 4	0.y%	ppm
UJwciNu	4471	22S02.yS	221y%41	1ySPS.PP	21116.4S	P.- %	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- %71						cpa
UEwOeiob	- %72						cpa
UEeOu iNu	%272	2- .1y	2- .11	2- .y4	2- .42	1.y0	ppm
UOmJwv	%y72	P.1S	P.2-	P.12	P.1%	S.PP	ppm
UOppbe	6- 72	2y.22	2y.PS	- S.1%	2y.02	1.%P	ppm
DhapeOaiNu	1%671						cpa
DhapeOaiNu	1%672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16%71				116		G
MOw iNu	16%72				1S4		G
IodiNu	11%71				11%		G
IodiNu	11%72				yy		G
IeOo	%472	1yy44.6y	1yPP1.S6	2S4- 6.- %	2SSP0.- 0	1.%l	ppm
IeOo	%672	1y024.y4	1y%%P.- 0	2SS%%10	1y00y.4y	1.2P	ppm
IeOo	%072	1P610.06	1P4%2.y2	1P060.0%	1P612.P1	S.P%	ppm
KehptOo	P- 71						cpa
LbJd	2S671	04.0%	02.1P	66.12	01.S1	6.24	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	02.14	6y.%l	62.- -	60.yy	0.40	ppm
LbJd	2SP71	0- .62	0S.4y	64.2-	6y.4%	6.PP	ppm
LitEiNu	671				1S1		G
g JvobaiNu	2472	%06- .Sy	%Py1.PS	%P0P.- %	%P44.41	1.21	ppm
g JovJobab	%%72	420.21	42y.20	4- 2.%l	42y.66	S.62	ppm
g OwmdboNu	y471	4.46	4.- 0	4.S4	4.2y	%SP	ppm
g OwmdboNu	y%71	S.yS	S.PP	S.06	S.P%	P.01	ppm
g OwmdboNu	y671	1.- -	1.20	1.S4	1.21	12.4-	ppm
g OwmdboNu	y071	S.yP	S.y2	S.0%	S.PP	1- .- 0	ppm
g OwmdboNu	yP71	S.P6	S.P4	S.0P	S.P-	4.P%	ppm
8 bOdhu iNu	1%S71						cpa
8 bOdhu iNu	1%S72						cpa
8 ickbw	6S72	16.P0	16.P2	10.%	10.S0	2.- 1	ppm
I EOapEOeNa	- 172	2%6.P1	2600.- -	24y2.y1	2%6y.S2	- .0%	ppm
I OtJaaiNu	- y72	%2S0.62	%14y.- 0	%2PS.y4	%212.64	1.26	ppm
n EOdiNu	1S- 71				112		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4%71				112		G
r cJodiNu	4%72				y6		G
r bwboiNu	P271	S.PP	S.%6	1.14	S.P6	- 4.20	ppm
r bwboiNu	0072	1y.- 2	20.1-	- 1.6S	26.S1	2- .Py	ppm
r bwboiNu	0P72	6.P1	6.2S	0.S-	6.6P	6.- y	ppm
r iwcOo	2P71	14P.11	146.%P	126.- -	14S.- 4	P.66	ppm
r iwRbe	1S071	S.4y	S.4-	S.44	S.46	0.42	ppm
r iwRbe	1Sy71	S.4P	S.46	S.44	S.46	4.- 4	ppm
r OdiNu	2- 72	1%P.04	1%.0%	1%4.4S	1%%6-	1.0%	ppm
r teOotiNu	P671	22S.6P	22S.yy	1Py.11	21S.26	P.01	ppm
r teOotiNu	PP71	2- - .2S	226.%y	1y6.42	21P.0-	P.y6	ppm
r NwNe	- 471	71Py6.- 2	71P00.1-	720y4.%2	721Py.- -		ppm
TbemiNu	1%y71				11%		G
TbemiNu	1%y72				1S4		G
TEJwiNu	2S- 71	S.2%	S.21	S.1y	S.21	1%Sy	ppm
TEJwiNu	2S%71	S.24	S.21	S.10	S.21	16.4-	ppm
Tio	11P71	2.%2	2.4P	2.1P	2.- y	0.y1	ppm
TitJoiNu	4071	1S0.04	1Sy.%	y0.%S	1S4.y-	6.1y	ppm
F eJoiNu	2- P71	2.22	2.16	1.y6	2.12	6.4S	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	%172	- S.y6	- 2.11	- 2.1y	- 1.0%	2.1P	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				116		G
YtteiNu	Py72				1S4		G
Zioc	6672	102.06	10P.- 4	10P.yP	106.6y	1.y4	ppm
ZiecOoiNu	yS71	2.1P	2.2S	1.P4	2.S0	y.00	ppm
ZiecOoiNu	y171	2.12	2.S6	1.y0	2.S%	- .%6	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	112- S.Py	h6SS.2P	hh61.yP	1S264.24	P.- 4	ppm
Aotiu Oo%	12171	S.- h	S.- -	S.42	S.- P	11.P1	ppm
Aeaboic	0y72	11.- 0	h.y6	h.P-	1S.2y	h.yS	ppm
BJeiNu	1- y71	2- P.1-	2- P.- P	246.yh	241.S-	2.SS	ppm
BJeiNu	1- 071	244.00	2- P.hS	246.- 2	24- .- -	1.61	ppm
Bbe%wiNu	h71	1.16	1.1P	1.11	1.1y	- .1-	ppm
Biau NtE	2Sh71				1Sh		G
Biau NtE	2Sh72				1S-		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.y-	1.h-	1.2P	1.yP	2S.hS	ppm
UJdu iNu	1S671	S.1-	7- .- h	72.60	71.hP		ppm
UJdu iNu	11171	1.- 1	1.20	1.41	1.- -	y.2y	ppm
UJwiNu	4- 71	2S0hh.6P	2S444.y4	2Sh04.- S	2S0- h.y1	1.- S	ppm
UJwiNu	4471	212yP.14	2ShSS.04	21y01.1S	2124- .- -	1.yP	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOaiob	- y71						cpa
UEwOaiob	- y72						cpa
UEeOu iNu	y272	21.14	1P.1y	1P.02	1h.- 4	P.2-	ppm
UOmJw	yh72	P.4P	0.64	0.yh	0.hS	6.- 2	ppm
UOppbe	6- 72	26.6P	22.6-	2- .2S	24.10	h.S6	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S2		G
IodiNu	11y71				1SP		G
IodiNu	11y72				h6		G
IeOo	y472	2S- y- .6h	1021P.h0	104y- .44	1P- 42.S-	h.y2	ppm
IeOo	y672	2Sh41.0h	1P- S- .0S	1P0Sh.40	1h- 1P.- 2	0.- y	ppm
IeOo	y072	1h6h0.44	10Shh.P4	104SS.0-	1PS66.SS	0.P6	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	64.yy	64.22	64.y2	64.4-	S.2P	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	61.04	62.Sy	61.6P	61.P2	S.- 2	ppm
LbJd	2SP71	62.6y	62.y0	62.06	62.66	S.1y	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	4- 62.- y	- 00h.- -	- h2- .2-	4S21.64	0.yy	ppm
g JovJobab	yy72	4y0.6P	- hy.00	4Sy.- S	41h.yP	0.h4	ppm
g O%mdboNu	h471	- .P4	- .h2	4.2-	4.SS	y.14	ppm
g O%mdboNu	hy71	S.6y	S.0S	S.6h	S.6P	- .04	ppm
g O%mdboNu	h671	S.hh	1.1S	1.S4	1.S4	y.S-	ppm
g O%mdboNu	h071	S.0S	S.66	S.P4	S.0-	1- .10	ppm
g O%mdboNu	hP71	S.64	S.02	S.0S	S.6h	6.Sh	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	1y.Py	14.SS	14.2S	14.6P	6.h1	ppm
I EOapEOeNa	- 172	1- 00.P2	1SPy.- 2	1S- 6.Py	1166.66	1y.P1	ppm
I OtJaaiNu	- h72	- 62- .h-	- 1- h.4y	- 2- 6.04	- - - - .- 0	0.6h	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				1SS		G
r cJodiNu	4y71				1Sy		G
r cJodiNu	4y72				h2		G
r bwboiNu	P271	S.4S	S.00	S.6h	S.62	- S.h6	ppm
r bwboiNu	0072	2S.S0	2y.2y	22.h1	22.04	11.41	ppm
r bwboiNu	0P72	y.yh	4.21	4.6-	4.P1	14.02	ppm
r iwcOo	2P71	164.0-	162.0h	16P.16	16y.22	1.6y	ppm
r iwRbe	1S071	S.- 6	S.- h	S.- y	S.- 0	y.1P	ppm
r iwRbe	1Sh71	S.- h	S.- 0	S.- P	S.- P	2.y0	ppm
r OdiNu	2- 72	20y.hP	220.12	2- 0.Sy	246.02	1S.40	ppm
r teOotiNu	P671	2SP.00	2Sy.S0	2S- .hS	2Sy.h2	1.24	ppm
r teOotiNu	PP71	221.P0	212.y6	212.- 0	21y.6S	2.y2	ppm
r NwNe	- 471	7212P.0P	72- 46.P6	71P26.- -	721SS.66		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S1		G
TEJwiNu	2S- 71	S.2S	S.1P	S.21	S.2S	0.P2	ppm
TEJwiNu	2Sy71	S.2S	S.1h	S.2S	S.2S	1.S6	ppm
Tio	11P71	2.61	2.- 6	2.y1	2.4h	y.S6	ppm
TitJoiNu	4071	hS.S0	hS.1h	h2.16	hS.PS	1.2h	ppm
F eJoiNu	2- P71	1.2S	1.26	1.26	1.24	2.64	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- 4.P-	- S.60	- S.64	- 2.Sy	0.y-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1SS		G
Zioc	6672	14S.yh	11h.14	12S.6-	126.0h	h.4y	ppm
ZiecOoiNu	hS71	1.P4	1.P-	1.P2	1.P-	S.44	ppm
ZiecOoiNu	h171	1.h4	1.P1	1.0-	1.P-	y.hP	ppm

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Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF- J	&dPnTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdPP:u sb r :9	S0JqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	1SN 4U64	1S - 4U6-	1S- JUN4	1S N- US-	2U0	DDe
q5Tb n5%	12171	SU-	SU44	SU4-	SU40	11U02	DDe
qpwr 5cd	0 72	16USN	1 U4S	14U0	1 U	4UJ	DDe
Bspcmb	1- 71	22 U01	104U06	10SUJ	1JSU	16U12	DDe
Bspcmb	1- 071	222U N	10NU-	102U1-	1JSUJ	14U	DDe
Br p%PPcmb	J71	1U24	1US	1USS	1U1S	11U21	DDe
Bcwb mTE	2SJ71				11-		G
Bcwb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1UJ4	1U44	2U14	1UN4	1JU1	DDe
v sob cmb	1S671	71U2N	7SU4J	7- U1	71U64		DDe
v sob cmb	11171	2U20	1UN0	1U0	1UJ6	1- UJ2	DDe
v sPdcmb	4- 71	4041- U4	- 0664U2	- 6J4- UNS	4S60- UN6	14U N	DDe
v sPdcmb	4471	4N66- U61	- J- - - U2	- NS - U1J	42S16U00	1- U0N	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- 71						dDw
v EPhpc5r	- 72						dDw
v Epmb cmb	272	21UJJ	21U46	21U2S	21U	1UNN	DDe
v nesPT	J72	11U N	11U1J	11USN	11U2N	2U2	DDe
v nDDr p	6- 72	- 0U4J	- 6U41	- 6UN-	- 6UJ1	1U4N	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16 71				114		G
h nPb cmb	16 72				1S6		G
t5ocmb	11 71				111		G
t5ocmb	11 72				1SS		G
tpn5	472	2JS06U1-	2J- S0US1	2NN6SU61	2JSN1U2	SU00	DDe
tpn5	672	2J6J4U0-	2N6J0U1	2N262U2-	2NNN4U06	2U4	DDe
tpn5	072	20 - U0J	20122U4N	26 - UJ4	20S06U04	1UN	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	- 0U2J	- SU2	2NUN	- 2U1-	14USN	DDe

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Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:u sb r :9	S0JqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- 4U J	2NU14	20U6	- SUS-	1- U21	DDe
Lr so	2SN71	- U S	2NUJ1	2NUJ	- SUJ2	12UN	DDe
LdEomb	671				1SS		G
y sM5r womb	2472	2S02NUJ4	2S2- 2UJ	1J66NU4J	2S21SU1-	2U6-	DDe
y s5Ms5r wr	72	64JUN2	642U1	62 UJ2	6- JUS	1UJ1	DDe
y nP%eor 5mb	J471	4UJ-	4U0	4US2	4U44	1SU6	DDe
y nP%eor 5mb	J 71	1U N	1U-	1U6	1U42	JU66	DDe
y nP%eor 5mb	J671	1UJ0	1U0	1U 1	1U04	1- UN	DDe
y nP%eor 5mb	J071	1U62	1UN	1U22	1U41	14U42	DDe
y nP%eor 5mb	JN71	1U6-	1U22	1U1	1UJ	1 U	DDe
u r no%b omb	1 S71						dDw
u r no%b omb	1 S72						dDw
u dkr P	6S72	20UN6	26U06	26U	20US6	2U61	DDe
8 EnwDEnpmw	- 172	46- NU6	4N2NUN	4626UJS	46JNUS	2U41	DDe
8 nTswwomb	- J72	4S- 6UJ1	- J60U4	- J- 1U61	- J0NU66	1U	DDe
CEnoomb	1S- 71				11S		G
CEnoomb	1S- 72				1S4		G
I ds5oomb	4 71				1SJ		G
I ds5oomb	4 72				J0		G
I r P 5omb	N271	2U4S	2U11	1U0	2US2	2SUN6	DDe
I r P 5omb	0072	20US1	- - UN	21U1N	20U1J	22U44	DDe
I r P 5omb	0N72	0U6N	NU4-	6U0-	0U61	11U1J	DDe
I dPdn5	2N71	1J- U2N	142U20	1- 6UJN	1 0U1	1JU04	DDe
I dPgr p	1S071	SU2N	SU24	SU22	SU2	11USJ	DDe
I dPgr p	1SJ71	SUS	SU22	SU21	SU2	2SU4J	DDe
I nomb	2- 72	1N4NU24	1N10UNS	100NUS-	1N14U6J	1UJ4	DDe
I Tpm5Tomb	N671	42JUN2	- 2UNS	- - JU01	- 04U11	1- US1	DDe
I Tpm5Tomb	NN71	4 2U14	- 61UN0	- 4JU66	- N0UNU	14U4-	DDe
I mPmp	- 471	2S1- USJ	74 - U26	701JU04	2NSUS-	- NUSN	DDe
Ar peomb	1 J71				114		G
Ar peomb	1 J72				1S4		G
AEsPPmb	2S- 71	SU2J	SU2	SU22	SU2	14U6	DDe
AEsPPmb	2S 71	SU20	SU21	SU2-	SU24	12UJN	DDe
Ad5	11N71	1US-	SUN1	SU0-	SUN6	1NUN	DDe
AdS5omb	4071	1S1U4N	NSU0J	06U4N	N6U2	1 U4J	DDe
Rps5omb	2- N71	NUJ1	6U0J	6U6-	0U2	12U00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tusb r :9	8 N
v Rt 5TI sb DP:t&:9	y h SF- J	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:usb r :9	S0JqC. Fwb

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	172	44U1N	42US6	41U64	42U6-	- U2S	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11		G
YTTpomb	NJ72				1S		G
Zc5d	6672	206U0	201UN-	260U-1	201UJ6	1U04	DDe
Zqpdn5omb	JS71	2U16	1UN4	1UN-	1UJ4	JU	DDe
Zqpdn5omb	J171	2U10	1UN2	1U00	1UJ2	11U10	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1122y.60	1Sy06.- 1	1119y.- S	111- 1.06	1.22	ppm
Aotiu Ooh	12171	S.26	S.4S	S.- 2	S.- -	2S.%9	ppm
Aesboic	0%72	22.29	22.%9	2- .S6	22.64	1.0%	ppm
BaeiNu	1- %71	14S.99	1y9.1%	161.10	166.0-	10.42	ppm
BaeiNu	1- 071	14- .11	2S2.y6	16S.%4	169.90	19.2-	ppm
BbehlliNu	y71	1.29	1.69	1.- 9	1.4%	14.26	ppm
Bisu NtE	2Sy71				y0		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	1.1-	2.- 2	1.4%	1.6-	- 0.y4	ppm
Uadu iNu	1S671	7S.%y	72.- -	7S.9-	71.2%		ppm
Uadu iNu	11171	1.Sy	1.46	1.1-	1.22	16.62	ppm
UalciNu	4- 71	6626- .40	y0S%4.42	099yy.%S	9S0- y.1-	1y.10	ppm
UalciNu	4471	602- - .y1	y4999.6-	00S9%49	0y0- 6.S1	10.%9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%2772	1y.0y	1y.1-	1y.4%	1y.46	1.0S	ppm
UOmalt	%y72	14.%4	14.11	14.- S	14.- 2	1.49	ppm
UOppbe	6- 72	- %%0	- 4.00	- %%0	- %- 1	1.- 1	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				yy		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				y%		G
IodiNu	11%72				y9		G
IeOo	%472	- 0y04.10	- 0- 1S.12	- 09- y.16	- 00S0.92	S.y-	ppm
IeOo	%672	- 0142.6S	- 692%y4	- 0%14.- 6	- 016S.y0	S.y-	ppm
IeOo	%072	- 4y1%%S	- 420S.S6	- %S29.42	- 40- 0.yy	1.19	ppm
KehptOo	9- 71						cps
Lbad	2S671	- 9.9S	%%S%	44.20	46.S4	10.y6	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	- 0.S4	%1.6S	41.%%	4- .4S	10.10	ppm
Lbad	2S971	- 9.S9	% .69	42.yy	44.y2	10.06	ppm
LitEiNu	671				99		G
g avobsiNu	2472	10yS4.42	10606.94	1060S.00	100%S.60	S.0%	ppm
g aovaobsb	%%72	- %%6S	- 4y.9-	- %9.40	- %4.6-	1.24	ppm
g OhmdboNu	y471	1S.S9	1- .%S	11.6y	11.06	14.%0	ppm
g OhmdboNu	y%71	1.- y	1.9%	1.61	1.62	14.- -	ppm
g OhmdboNu	y671	2.22	- .S0	2.66	2.6%	16.S2	ppm
g OhmdboNu	y071	1.40	1.06	1.%	1.%y	y.%0	ppm
g OhmdboNu	y971	1.- y	1.90	1.6S	1.62	14.62	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	- 9.26	- 6.- 0	- 0.21	- 0.29	2.%%	ppm
PEOspEOeNs	- 172	1412.2-	14y4.%9	14S2.9S	14- 6.%	- .%1	ppm
POtassiNu	- y72	206- .21	266S.y1	2019.11	2014.S9	1.9y	ppm
n EOdiNu	1S- 71				y4		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				y%		G
r caodiNu	4%72				y6		G
r blboiNu	9271	2.11	1.0-	1.60	1.94	1- .S0	ppm
r blboiNu	0072	- - .46	- - .06	2%46	- S.9y	1%2%	ppm
r blboiNu	0972	6.y4	9.S-	0.91	0.%y	0.%6	ppm
r ilicOo	2971	249.- 4	- - 9.12	20- .91	296.06	16.14	ppm
r ilRbe	1S071	S.2%	S.- 0	S.- S	S.- S	2S.%2	ppm
r ilRbe	1Sy71	S.2%	S.- 1	S.20	S.29	1S.y%	ppm
r OdiNu	2- 72	- 1- %09	- S- 2.y2	- S0%y2	- S91.%4	1.69	ppm
r teOotiNu	9671	- S- .99	42%29	- %6.Sy	- 61.0%	16.9-	ppm
r teOotiNu	9971	- 1y.0S	44- .y0	- 02.16	- 09.61	16.49	ppm
r NfNe	- 471	2140- .9y	- - 946.12	2%16%S-	26929.- %	2- .60	ppm
TbemiNu	1%y71				y9		G
TbemiNu	1%y72				1S2		G
TEalliNu	2S- 71	S.29	S.41	S.- -	S.- 4	1y.12	ppm
TEalliNu	2S%71	S.20	S.42	S.- -	S.- 4	21.%	ppm
Tio	11971	- .6y	%19	4.- %	4.41	16.y9	ppm
TitaoiNu	4071	% .1%	04.19	%9.42	61.y2	10.60	ppm
F eaoiNu	2- 971	- .0S	%1-	4.2%	4.- 6	16.62	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataOilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%172	4y.64	49.12	49.S9	49.62	1.9-	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				yy		G
YtteiNu	9y72				1S2		G
Zioc	6672	16- .12	1%9.- 4	166.6y	162.02	2.%0	ppm
ZieoOoiNu	yS71	4.99	6.y0	%00	%90	10.92	ppm
ZieoOoiNu	y171	%Sy	6.y2	6.S%	6.S2	1%26	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	110hhF24	12S49FS8	11h6hF28	11h- 0FB0	1FS9	I I b
c n&Amon%	12171	SF1h	SF21	SF29	SF22	1- F2h	I I b
c rsenAq	0972	6Fh2	0F6S	8FS0	0F9-	0F60	I I b
BarAum	1- 971	18hFS-	1h- F0S	221F4h	2S1F41	8F01	I I b
BarAum	1- 071	188Fhh	1h4Fh4	22SF6h	2S1F94	8F- 6	I I b
Ber%lAum	h71	1F29	1F26	1F- h	1F- S	6F22	I I b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	SF92	SF4-	SF14	SF- 0	9- FhS	I I b
RaOmAum	1S671	74F- 8	71F2-	72F- 0	72F66		I I b
RaOmAum	11171	SF- 1	SF- 6	SF- 0	SF- 9	8F9h	I I b
RalqAum	4- 71	4hh8F1S	91h1F2-	981SF0S	9- - - F- 4	0Fh6	I I b
RalqAum	4471	94- SF26	948- F99	61h0FSh	90S- F64	0F91	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 971						ql s
REIorAne	- 972						ql s
REromAum	9272	2SFh1	2SF06	2SFh-	2SFB0	SF49	I I b
Robal&	9h72	0F1h	0FSh	0F22	0F16	SFh9	I I b
RoI I er	6- 72	2SF0h	2SF0S	2SFh0	2SFB2	SF66	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S6		G
DnOAum	11971				1S8		G
DnOAum	11972				1SS		G
Don	9472	22984F60	228S- Fh8	220S2F60	226h0F11	SF48	I I b
Don	9672	222S6F- 0	229- 6F4S	22Sh2F08	22208F92	1FS-	I I b
Don	9072	21S- - Fh4	21210FS1	2S0h8FB0	21S16F61	1FSS	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	29F19	29F26	20F40	29Fh6	9FS9	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	2- F4S	2- F0S	29F9-	24F21	4F06	I I b
LeaO	2S871	24F49	24F98	26F4h	29F18	4F9-	I I b
LAEAum	671				hh		G
MagnesAum	2472	200SFS4	2018F-	208SF02	2096F6	1F21	I I b
Manganese	9972	48- F08	480FSS	482F46	484F41	SF48	I I b
Mol%bOenum	h471	2F69	2F09	- FSh	2F8-	8F29	I I b
Mol%bOenum	h971	SF00	SF60	SF81	SF09	hF29	I I b
Mol%bOenum	h671	SFh9	1FS2	1FSh	1FS2	6F69	I I b
Mol%bOenum	h071	SF0-	SF00	SFh2	SF81	12F24	I I b
Mol%bOenum	h871	SF6h	SF04	SF8S	SF04	0F2h	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	19Fh8	16FSS	16F2S	16FS6	SF0-	I I b
PEosI Eorus	- 172	921F42	9h9F8-	9- 9F48	99SFh1	0F18	I I b
Po&assAum	- h72	262hF06	26hSF- h	2019Fhh	2608F01	1F69	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S-		G
p qanOAum	4971				1S0		G
p qanOAum	4972				h0		G
p elenAum	8271	SF62	SF94	1F1-	SF00	41F61	I I b
p elenAum	0072	4hF- 2	40F6h	9SF6S	4hF2S	2Fh6	I I b
p elenAum	0872	0F96	0F94	0F2h	0F46	2FS2	I I b
p AAqon	2871	1h0F80	2S4F19	2- 1FS-	211FS1	8F- 9	I I b
p Aver	1S071	SFS8	SF12	SF1S	SF1S	21F11	I I b
p Aver	1Sh71	SFSh	SFSh	SF1S	SF1S	6F86	I I b
p oOAum	2- 72	61F- 9	61F90	68F- 4	6- F09	6F2-	I I b
p &on&Aum	8671	86F8-	8hFhh	h0F42	h1F41	9Fh9	I I b
p &on&Aum	8871	h1F68	h4F06	1S2FSh	h6F10	9F96	I I b
p ulfur	- 471	72- 6- Fh9	72421F- 1	71662Fh4	7214hF4S		I I b
i erbAum	19h71				11S		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF2-	SF24	SF20	SF29	8F12	I I b
i EallAum	2S971	SF2-	SF22	SF24	SF2-	- F44	I I b
i An	11871	1F- 1	1F40	1F0-	1F91	14F1S	I I b
i &anAum	4071	124F9h	12hF41	144F92	1- 2F84	0F8-	I I b
UranAum	2- 871	1F41	1F44	1F9S	1F49	- FS4	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	- - F24	- - F1S	- - F1S	- - F19	SF29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				1S8		G
ZAnq	6672	84F9h	84FS4	89F09	84F0h	1FS-	l l b
ZAqonAum	hS71	1F24	1F- -	1F49	1F- 4	0F02	l l b
ZAqonAum	h171	1F2h	1F28	1F- 4	1F- S	2F48	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1S000. y	11- h1.61	12h16.-	116hy.2	h.42	ppm
Aotiu Oo%	12171	S.yS	S.4h	S.yS	S.4h	1.S2	ppm
Aesboic	0y72	1y.- y	16.4-	1 .h0	16.h1	1S.h	ppm
BaeiNu	1- y71	100.24	1 0.1S	1 2.S0	1 2.14	2.01	ppm
BaeiNu	1- 071	10h.00	1 - .- 1	1 4.- h	1 2.4h	1.- 2	ppm
Bbe%liNu	h71	S. 6	S. 6	S. 2	S. y	2.6S	ppm
Bisu NtE	2Sh71				11S		G
Bisu NtE	2Sh72				hh		G
BeOu iob	171						cps
Uadu iNu	1S 71	2.S2	1.0S	1.-	1.0S	1 .hh	ppm
Uadu iNu	1S671	71.yh	72.- h	72.22	72.S0		ppm
Uadu iNu	11171	1. S	1.00	1.h0	1. y	y.hS	ppm
UalciNu	4- 71	- S- 0- . -	- 1446.- 4	- S- .1h	- S0- 6.12	2.SS	ppm
UalciNu	4471	- 1- 04.24	- 2S1- .11	- 1- 12.SS	- 1y66.4y	1.2-	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- y71						cps
UElOeiob	- y72						cps
UEeOu iNu	y272	2S.- h	21.00	2y.14	22.4-	1S.hS	ppm
UOmalt	yh72	1S.02	11.4y	12. h	11.6h	h.4y	ppm
UOppbe	6- 72	- S. -	- 1. 1	- 6.S1	- 2.	.-	ppm
D%speOsiNu	1y671						cps
D%speOsiNu	1y672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16y71				111		G
MOlu iNu	16y72				h0		G
IodiNu	11y71				1Sh		G
IodiNu	11y72				h2		G
IeOo	y472	- S0S4.- -	- - S26.- -	- 64S1.S0	- - - 00.24	.y	ppm
IeOo	y672	2h h2.1	- 1yS6.0h	- 026 .- 4	- 2 h.1S	11.0h	ppm
IeOo	y072	2 110.Sh	- S2 - . 0	- - h 4.- h	- S0hy.12	h.6-	ppm
Ke%ptOo	- 71						cps
Lbad	2S671	- - .10	- 4.2S	- - .6S	- - .66	1.y4	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S071	- 1.y4	- 2.0h	- 2.Sy	- 2.1-	1.hy	ppm
Lbad	2S 71	- 2.- 6	- - .2y	- 2.42	- 2.6	1.y2	ppm
LitEiNu	671				hh		G
g avobsiNu	2472	1- 4Sy.y0	1- 41.y	16S2 .S0	1442y.S0	h.04	ppm
g aovaobsb	yy72	411.4	4- 6.24	4h6.h4	44 .22	h. 1	ppm
g Ol%mdboNu	h471	- .h-	- .hS	- . y	- .hS	1.1S	ppm
g Ol%mdboNu	hy71	1.06	1.y0	1.6-	1.6y	y. S	ppm
g Ol%mdboNu	h671	1.h6	1.hy	1.	1.h-	2.46	ppm
g Ol%mdboNu	h071	1.y6	1.4	1.yh	1.y4	- .40	ppm
g Ol%mdboNu	h 71	1.0y	1.0h	1.04	1.06	1.4S	ppm
8 bOd%u iNu	1yS71						cps
8 bOd%u iNu	1yS72						cps
8 ickbl	6S72	2h.11	- S.- -	- - .40	- S.h0	0.20	ppm
PEOspEOeNs	- 172	21y2.6	220h.2S	2y46.60	2- 26.1	.6y	ppm
POtassiNu	- h72	- h6y.yS	426y.Sh	40 - .y1	4- - .S4	h.y4	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				h6		G
r caodiNu	4y71				1S0		G
r caodiNu	4y72				h		G
r blboiNu	271	S.	S.	S. 1	S. 6	4.y4	ppm
r blboiNu	0072	1 .yh	20.62	21.h1	22.01	2S.12	ppm
r blboiNu	0 72	4.60	6.- 4	0.60	6.2-	24.10	ppm
r ilicOo	2 71	21S.S0	21y.4h	2S .S2	211.2S	1. -	ppm
r ilRbe	1S071	S.2	S.- 2	S.2h	S.- S	0.Sh	ppm
r ilRbe	1Sh71	S.- S	S.- 2	S.- -	S.- 2	4.64	ppm
r OdiNu	2- 72	1- y.Sy	14 .4S	1 1. y	1yy.1S	1y.yy	ppm
r teOotiNu	671	h0.- 0	h- .12	h6.2S	hy.y0	2.- S	ppm
r teOotiNu	71	1S1.- 1	1SS.04	1SS.10	1SS.04	S.y6	ppm
r NfNe	- 471	71- 40.21	7h06. -	7110- .20	7116y.00		ppm
TbemiNu	1yh71				111		G
TbemiNu	1yh72				h6		G
TEalliNu	2S- 71	S.2h	S.- 4	S.- 1	S.- 1	.S0	ppm
TEalliNu	2Sy71	S.2h	S.2h	S.- S	S.2h	1.42	ppm
Tio	11 71	S.6-	S.60	S.61	S.64	4.h-	ppm
TitaoiNu	4071	0 .yS	1.46	06.- 4	0 .00	- .26	ppm
FeaoiNu	2- 71	1.h4	2.Sy	2.S	2.S2	- . S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y172	46.0h	4h.1h	y4.hy	yS.- 1	.- -	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	h71				111		G
YtteiNu	h72				h4		G
Zioc	6672	1h1. 0	2S- . 1	220.yh	2S0.06	.0y	ppm
ZieoOoiNu	hS71	1.- 6	1.41	1.- 4	1.- 0	2.	ppm
ZieoOoiNu	h171	1.4-	1.-	1.2-	1.- y	0.y-	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:12916J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
qPmb dCcmb	20:2	7 1yN.27	71 N4.1N	71 77.0	71y0y. y	2.S	DDe
qCTb 5Ch	121:1	4y .44	4y2.S4	4NS.	4NN.61	1.40	DDe
qpwr Ccl	07:2	720.62	722.6y	717.62	721.yN	1.16	DDe
Bspcmb	1 7:1	24yy.yS	24yS.27	24N4.N	24y1.66	S. 1	DDe
Bspcmb	1 0:1	24NN.7N	240N.2N	241S.66	247y.10	1.02	DDe
Br phPmb	y:1	47y.N7	404.N2	460.02	460.46	1.6S	DDe
Bcwb mT%	2Sy:1				yN		E
Bcwb mT%	2Sy:2				y		E
Bp5b dCr	N1:1						dDw
3 sob cmb	1SN:1	4yS. 2	4yS.SS	4y0.22	4y2.71	S.N	DDe
3 sob cmb	1S6:1	4yN.12	4N .y2	402.N6	4N4.y0	2.61	DDe
3 sob cmb	111:1	4Ny.7N	4N6.S2	400.17	4N4.27	1. 2	DDe
3 sPdcmb	4 :1	2714y .02	24y1N1.1y	24 N4S.S	24N101.67	1.7N	DDe
3 sPdcmb	44:1	24SySy.N7	241S21.	24S40y.S4	24SNS .41	S.12	DDe
3 spe5C	12:1						dDw
3 spe5C	12:2						dDw
3 %P5pdCr	7:1						dDw
3 %P5pdCr	7:2						dDw
3 %p5b cmb	72:2	4yy.1y	4y .47	4N0.y6	4y .7	1.14	DDe
3 5esPT	7y:2	4yy.N4	4y4.7N	4yS.y4	4y7.12	S.yS	DDe
3 5DDr p	6 :2	72y0. N	7 SN. 1	7 26.26	7 1S.67	S.20	DDe
&hwDp5wcmb	176:1						dDw
&hwDp5wcmb	176:2						dDw
Gpecmb	164:1						dDw
Gpecmb	164:2						dDw
Hso5PdCcmb	16S:1						dDw
Hso5PdCcmb	16S:2						dDw
K5Pb cmb	167:1				1S2		E
K5Pb cmb	167:2				yN		E
tCocmb	117:1				y0		E
tCocmb	117:2				Ny		E
tp5C	74:2	1 S010.6N	12y70S. 4	12N7N0.47	12y627.16	S.N2	DDe
tp5C	76:2	1 S1y4.61	1 1217.	12yS24.2N	1 S144.04	S.N4	DDe
tp5C	70:2	1 10N. 1	1 16y .06	1244S1. S	12y070.0y	.62	DDe
k phDT5C	N :1						dDw
Lr so	2S6:1	2402.	24 6.y	247y.y4	2476.4S	S.0	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0:1	24y2. N	246S.07	24N .yS	240y.S1	S.66	DDe
Lr so	2SN:1	24yS.Ny	24y0. y	27S0. 4	24yN.74	S.	DDe
LdP%mb	6:1				NN		E
MsgOr wmb	24:2	26444N.y4	261727.1y	26S077.26	26224 .1	S.04	DDe
MsOgsOr wr	77:2	72y1. 7	7260.6y	7207.SS	720N.S2	S.2	DDe
M5Pheor Omb	y4:1	4N44.21	4N .N1	4y 2.N1	4N0S.2N	1.12	DDe
M5Pheor Omb	y7:1	4N2N.S0	4N71.26	7S2N.1y	4yS2.71	2.2	DDe
M5Pheor Omb	y6:1	406y.44	4y21.Ny	7S 4.N1	4ySN.01	2.01	DDe
M5Pheor Omb	y0:1	4N47.7	4yS7. 0	7SS4.2N	4y1N. y	1.6	DDe
M5Pheor Omb	yN:1	4yS7.N	4y22.S6	7S7 .06	4y6S.77	1.64	DDe
ur 5ohb omb	17S:1						dDw
ur 5ohb omb	17S:2						dDw
udfr P	6S:2	7S0.2	7SN.71	7SN.S1	7S0.y2	S.1	DDe
8 %5wD%5pmw	1:2	yy2y.y0	y6 1.21	y0yy.4y	y0N6.Ny	1.7	DDe
8 5Tswwmb	y:2	1202Sy.17	12N1y .yy	126S7y.74	120174.2	S.N4	DDe
R%5omb	1S :1				y2		E
R%5omb	1S :2				Ny		E
I dsOomb	47:1				y4		E
I dsOomb	47:2				NN		E
I rPOmb	N2:1	462.44	46y.67	4N6.40	402.N7	2.61	DDe
I rPOmb	00:2	4yy. 7	7SS.2y	711.76	7S .0	1. 7	DDe
I rPOmb	0N:2	720.76	7SN.N4	7S0.N1	714.04	2.16	DDe
I dd5C	2N:1	722.7S	71N.7N	712.0N	710.y7	S.y4	DDe
I dPr p	1S0:1	4N0.0	402.60	406.N2	40y.S0	1.62	DDe
I dPr p	1Sy:1	4N6.44	404.N4	40y.7S	4NS.26	1.22	DDe
I 5omb	2 :2	20SSNy.7	264276.y4	264 2.20	266226.27	1.26	DDe
I Tp5CTomb	N6:1	1220 .41	12170.S7	120 1.67	12 N0. 0	2.47	DDe
I Tp5CTomb	NN:1	12SN0. 0	12Sy2.10	12260.10	1214N.yS	S.N4	DDe
I mPVp	4:1	y000.NS	y211.12	NN24.6y	y201.2S	7.10	DDe
Ar peomb	17y:1				1S		E
Ar peomb	17y:2				y0		E
A%sPmb	2S :1	71 .24	4yy. 7	4y0.20	7S .2y	1.0	DDe
A%sPmb	2S7:1	7S0.6S	4y4.24	7S1.24	7S1.S	1.	DDe
AdC	11N:1	40N.yy	7S2.1y	4N1.y2	4N0.0S	2.7y	DDe
AdsOomb	40:1	7S47.42	7S6 .72	4y00.77	7S2N.N	S.yS	DDe
UpsOomb	2 N:1	7S1.S4	7SS.2S	710.y	7S6. y	1.yN	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DrP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 RrCT9l sb DrP9l&9J9	3 3 - S27	&drmT5C9FsdT5p9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdrP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	71:2	72N.N6	724.7y	722.66	727. 0	S.6S	DDe
YTTr peomb	102:1						dDw
YTTr peomb	102:2						dDw
YTTr peomb	106:1						dDw
YTTr peomb	106:2						dDw
YTTpomb	Ny:1				yN		E
YTTpomb	Ny:2				y1		E
ZdCd	66:2	7S00.42	4yy4.y6	7S14.16	7S2N.N7	S.N6	DDe
Zqpd5Comb	yS:1	400. N	4y .yS	4y0.N4	4Ny.01	2.22	DDe
Zqpd5Comb	y1:1	461.S0	466.S6	40N.yN	46N.01	1.y0	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	20 2	1.y7	2.S6	1.- y	1.86	17.2S	I I b
c 5&mn5h	121 1	S.1y	S.21	S.26	S.22	1- .70	I I b
c rse5Aq	0- 2	S.S2	S.S7	S.S2	S.S2	21.46	I I b
BarAum	17- 1	S.1-	S.14	S.1-	S.14	7.47	I I b
BarAum	170 1	S.17	S.16	S.27	S.10	28.21	I I b
BerhllAum	y 1	S.S0	S.S6	S.S0	S.S0	6.y8	I I b
BAsmu&%	2Sy 1				1S-		E
BAsmu&%	2Sy 2				1S4		E
BrnmA5e	81 1						ql s
3 aOmAum	1S8 1	S.10	S.1S	S.S6	S.SS	7111.14	I I b
3 aOmAum	1S6 1	- .S8	- .2S	- .64	- .71		I I b
3 aOmAum	111 1	S.S7	S.S6	S.S1	S.S7	6y.82	I I b
3 alqAum	47 1	16.y2	16.Sy	12.81	1- .28	14.24	I I b
3 alqAum	44 1	26.- S	7S.46	27.- -	26.84	12.y1	I I b
3 arbn5	12 1						ql s
3 arbn5	12 2						ql s
3 %nrA5e	7- 1						ql s
3 %nrA5e	7- 2						ql s
3 %nmAum	- 2 2	S.S1	S.S-	S.S0	S.S4	64.y2	I I b
3 nbal&	- y 2	S.S2	S.SS	S.SS	S.S1	11S.21	I I b
3 nI I er	67 2	S.62	S.6S	S.- 0	S.6S	4.- 6	I I b
t hsI rnsAum	1- 6 1						ql s
t hsI rnsAum	1- 6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
GaOnIA5Aum	16S 1						ql s
GaOnIA5Aum	16S 2						ql s
HnImAum	16- 1				1S-		E
HnImAum	16- 2				1S7		E
D5OAum	11- 1				1S7		E
D5OAum	11- 2				y0		E
Dn5	- 4 2	- .78	7.27	6.22	4.y4	71.16	I I b
Dn5	- 6 2	- .Sy	7.yS	4.77	4.44	17.- 8	I I b
Dn5	- 0 2	6.46	4.88	4.4y	- .28	1y.06	I I b
Krhl &n5	87 1						ql s
LeaO	2S6 1	S.2S	S.21	S.18	S.2S	y.0-	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
LeaO	2S0 1	S.24	S.21	S.22	S.22	- .- -	I I b
LeaO	2S8 1	S.24	S.22	S.2S	S.22	0.- S	I I b
LA%Aum	6 1				y7		E
Mag5esAum	24 2	0.- 8	0.72	8.S4	0.6-	4.04	I I b
Ma5ga5ese	- - 2	S.22	S.2S	S.22	S.21	6.4S	I I b
MnlhbOe5um	y4 1	S.- y	S.- 6	S.- 1	S.- -	0.60	I I b
MnlhbOe5um	y- 1	S.67	S.- 8	S.- S	S.- 0	11.60	I I b
MnlhbOe5um	y6 1	S.64	S.- 8	S.- 2	S.- 8	1S.10	I I b
MnlhbOe5um	y0 1	S.64	S.6S	S.- 2	S.- 8	1S.88	I I b
MnlhbOe5um	y8 1	S.60	S.- -	S.- S	S.- 8	1- .S1	I I b
NenOhmAum	1- S 1						ql s
NenOhmAum	1- S 2						ql s
NAqkel	6S 2	S.S7	S.S1	S.S8	S.S4	8- .18	I I b
P%nsI %nrus	71 2	71.- S	- 7.Sy	4- .10	47.2-		I I b
Pn&assAum	7y 2	28.yy	22.6-	7- .76	2y.SS	21.yS	I I b
R%nOAum	1S7 1				1S1		E
R%nOAum	1S7 2				1S2		E
pqa5OAum	4- 1				1SS		E
pqa5OAum	4- 2				y2		E
pele5Aum	82 1	S.22	S.S6	S.21	S.12		I I b
pele5Aum	00 2	S.78	S.78	S.0y	S.S1	- 2y0.S0	I I b
pele5Aum	08 2	S.7S	S.07	S.- 2	S.- 2		I I b
pAAqn5	28 1	S.10	S.26	S.14	S.1y	71.24	I I b
pAver	1S0 1	S.S4	S.S4	S.S7	S.S4	14.0S	I I b
pAver	1Sy 1	S.S4	S.S7	S.S7	S.S4	1y.64	I I b
pnOAum	27 2	08.S7	0S.- 8	07.41	04.S1	- .S8	I I b
p&n5&Aum	86 1	S.y8	S.86	S.60	S.84	1y.S0	I I b
p&n5&Aum	88 1	S.y2	S.04	S.0-	S.8S	12.64	I I b
pulfur	74 1	12y7.28	8SS.S1	1S28.88	1S4S.02		I I b
i erbAum	1- y 1				1S4		E
i erbAum	1- y 2				1S1		E
i %allAum	2S7 1	S.1y	S.1y	S.10	S.18	0.64	I I b
i %allAum	2S- 1	S.1y	S.1y	S.18	S.18	7.07	I I b
i A5	118 1	S.SS	S.S1	S.S7	S.SS		I I b
i A&a5Aum	40 1	S.77	S.77	S.42	S.76	14.- 1	I I b
Ura5Aum	278 1	S.S4	S.S7	S.S2	S.S7	20.16	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	- 1 2	S.S1	S.SS	S.S1	S.S1	40.46	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8y 1				1S1		E
Y&&Aum	8y 2				y6		E
ZA5q	66 2	S.12	S.20	S.70	S.2-	48.y-	I I b
ZAqn5Aum	yS 1	S.S-	S.S2	S.S4	S.S4	42.42	I I b
ZAqn5Aum	y1 1	S.S7	S.S1	S.S7	S.S2	67.2S	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb A CA mb	2072	1SS	1S6	1S2	1S-	-FS6	ql w
c C&b nC9	12171	S	N	10	N	1SSFS2	ql w
cpwr CAq	0y72	S	-	2	2	J1F6y	ql w
Bsp A mb	1-y71	42	42	yS	44	1SFN2	ql w
Bsp A mb	1-071	60	yN	yS	yN	14F2J	ql w
Br p9P A mb	J71	2J	2-	-1	2N	16F-J	ql w
BA b m&a	2SJ71	6-6N4yy	6-N6SS6	64261-1	6-J-y-1	SF46	ql w
BA b m&a	2SJ72	-112-1S	-11220S	-Sy611-	-SJ-y64	1FSy	ql w
Bpmb A Or	N171	4y4-	44J2	4-SJ	444N	2F06	ql w
. sOb A mb	1SN71	21	10	10	1N	1-F-S	ql w
. sOb A mb	1S671	42J2	-Ny1	4S26	4Sy6	yF4J	ql w
. sOb A mb	11171	41J	-0N	4S-	4SS	yF21	ql w
. sP qA mb	4-71	246	2yy	26S	2y4	2F04	ql w
. sP qA mb	4471	2N4NS	2N2-y	2N64N	2N4y4	SF0-	ql w
. spenC	1271	2-6-N21	2-y2J21	2-111J-	2-4264y	1F1J	ql w
. spenC	1272	2N60S	-S6y0	2J440	2JyJ1	-F-N	ql w
. hP mpA Or	-y71	J6S-4	J2621	NJJ2N	J2N61	-F-S	ql w
. hP mpA Or	-y72	0SS	00y	642	0S6	JF40	ql w
. hpmb A mb	y272	1S-S	1SJ0	12-S	111J	JF1S	ql w
. nesP&	yJ72	6-	40	4-	y1	2SFJ6	ql w
. nI l r p	6-72	yyS	410	4J-	4N0	1-F0y	ql w
t 9wl pnwA mb	1y671	10	10	N	14	-4F60	ql w
t 9wl pnwA mb	1y672	-	S	-	2	N6F6S	ql w
Epe A mb	16471	yS	yS	60	y6	10F-2	ql w
Epe A mb	16472	0	20	20	2S	y0F0-	ql w
GsOnFA CA mb	16S71	110	110	1SS	111	NF66	ql w
GsOnFA CA mb	16S72	12S	14-	120	1-S	JF2y	ql w
HnP b A mb	16y71	JSN2S01	JS6Ny0N	NJ0J242	JS4-2J0	SF62	ql w
HnP b A mb	16y72	-J60424	-JJJS66	-J0y164	-JNSyy2	SF41	ql w
DDOA mb	11y71	666060S	661SNyJ	60S4-40	666SJyJ	SF01	ql w
DDOA mb	11y72	J616--	Jy2-yS	J6-22-	JyJS6J	SF61	ql w
Dpn C	y472	--J	4S6	-2N	-y0	11F00	ql w
Dpn C	y672	202N	2NSS	2010	204N	1F6y	ql w
Dpn C	y072	N-	122	1y6	12S	-SFS-	ql w
Kp9l &a C	N-71	26S	2S6	22y	2-S	11FN4	ql w
LrsO	2S671	6y6	yJ4	0S6	6y2	NFy4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	y--	yJ4	y44	yy0	yFN4	ql w
LrsO	2SN71	2622	2y2N	26--	2yJy	2F24	ql w
LA&nAmb	671	26--460	2yNN00S	2yN6N6S	26S-S-2	1FS1	ql w
RsgOr wAmb	2472	yS	42	1--	0y	60FyJ	ql w
RsOgsOr wr	yy72	40	y-	-S	4-	20F0-	ql w
RnP9eOr Omb	J471	142	60	N-	J0	4SFyS	ql w
RnP9eOr Omb	Jy71	--	10	N	1J	6yF40	ql w
RnP9eOr Omb	J671	yN	yS	12y	0N	y2FNy	ql w
RnP9eOr Omb	J071	S	42	S	14	10-F21	ql w
RnP9eOr Omb	JN71	2y	--	60	42	y2FJ2	ql w
urnO9b Amb	1yS71	0	S	2S	J	114Fyy	ql w
urnO9b Amb	1yS72	S	0	S	2	10-F21	ql w
uAqkr P	6S72	yS	-0	y-	40	1NFNJ	ql w
8hnwl hnpmw	-172	-SN	2N-	160	2y-	2JFJ1	ql w
8n&swwAmb	-J72	1S2S4	1S2N0	1S2J6	1S262	SF4J	ql w
5hnOAmb	1S-71	66y660S	6644-1-	60-0-01	660J4y1	SF06	ql w
5hnOAmb	1S-72	-1-20y0	-114SN2	-SJ0104	-114601	SFy0	ql w
3qsCOAmb	4y71	4412S22	420N04N	4-0224N	4-y4--J	1Fy0	ql w
3qsCOAmb	4y72	14JyJ0	14JS6N	140J26	14NN6-	SFy0	ql w
3r P CAmb	N271	71S	-1	--	1N	1-4FJJ	ql w
3r P CAmb	0072	S	-	S	1	10-F21	ql w
3r P CAmb	0N72	10	12	14	14	10Fy6	ql w
3 A AqnC	2N71	10N0S6	104y64	106S4J	10644S	1F1J	ql w
3 A r p	1S071	yN	yN	110	0N	4-F S	ql w
3 A r p	1SJ71	2y	yS	42	-J	-2F0-	ql w
3nOAmb	2-72	2SJ24	2S1y6	1JJN1	2S-y4	2F46	ql w
3&nC&Amb	N671	4yN	4SN	4N-	4yS	NF4J	ql w
3&nC&Amb	NN71	JN-	62y	0yN	0NJ	22FJ6	ql w
3mPmp	-471	-1401-	-1S4SN	-112N0	-121-6	SF0-	ql w
irpeAmb	1yJ71	J1N-6Sy	JS01N1N	J4y1621	J2-y6N1	2F11	ql w
irpeAmb	1yJ72	-N6J010	-J06S--	-J1241J	-J1J-JS	1F-0	ql w
ihsPAmb	2S-71	yS	yS	--	44	21F66	ql w
ihsPAmb	2Sy71	1yS	2SS	2SN	1N6	16FJy	ql w
iAC	11N71	1S60	110y	12SN	11yS	6F44	ql w
iA&sCAmb	4071	10y	2SN	142	10y	1JFSy	ql w
MpsCAmb	2-N71	2y	2y	N	1J	4JFyS	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sU A P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	y172	1-	10	2-	1N	2NF64	ql w
Y&&peAmb	10271	yS	42	N-	yN	-0FNS	ql w
Y&&peAmb	10272	2N	-J	44	-0	22FJ1	ql w
Y&&peAmb	10671	140y	1460	14SN	14yS	2Fy1	ql w
Y&&peAmb	10672	1S24-	1S2y4	J01y	1SS01	-FS6	ql w
Y&&pAmb	NJ71	122066J4	11JyS-y2	1216-206	121-S1S0	1F-0	ql w
Y&&pAmb	NJ72	12066J4	126Jyy-	12N1600	120yJ0y	SF4N	ql w
ZACq	6672	120	1-S	1--	1-S	2Fy0	ql w
ZAqnCAmb	JS71	40y	4--	4yS	4y-	4F6-	ql w
ZAqnCAmb	J171	1--	12y	--	J0	y0FS0	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	922	901	911	9-C	-F41	cps
Antimony	12171	960S	9S-0	9162	9289	-F61	cps
Arsenic	0C72	1C6	1C4	126	14C	11FC4	cps
Barium	1-C71	1S-C4	9912	90-0	1SSS1	-F18	cps
Barium	1-071	10480	2SS4S	18-96	18641	6F94	cps
Beryllium	971	1466	1C49	1C16	1C1S	2F0C	cps
Bismuth	2S971	6-C6669	6-C0C1S	6-81218	6-6C1-2	SF22	cps
Bismuth	2S972	-S612C0	-14-868	-S8SS6S	-S9CS62	1F4S	cps
Bromine	8171	4C84	42C9	42-4	4-C9	4F48	cps
. admium	1S871	1SS	1-8	121	119	1CF0-	cps
. admium	1S671	-0-4	4426	-8C9	4SS6	9F2S	cps
. admium	11171	14--	1C6-	1C9-	1C-S	CFC8	cps
. alcium	4-71	0S61	02-8	0208	019-	1F61	cps
. alcium	4471	14S80C	14--S4	1428S2	142-20	SF9S	cps
. arbon	1271	2-46S90	2-S9688	228904-	2-1C106	1F2-	cps
. arbon	1272	29S46	29898	29-88	29444	1F46	cps
. hlorine	-C71	98-41	9-6-C	9--42	9C1S6	2F9C	cps
. hlorine	-C72	010	6CS	08-	010	9F-S	cps
. hromium	C272	4S64	4241	4S00	4120	2F-8	cps
. obalt	C972	204S	28S0	2680	204C	2F19	cps
. opper	6-72	4061	4604	4604	40S-	1FS6	cps
Dysprosium	1C671	S	S	10	6	10-F21	cps
Dysprosium	1C672	S	-	1S	4	114F6S	cps
Erbium	16471	0C	2C	60	C6	48F22	cps
Erbium	16472	10	-S	20	24	28F-8	cps
Gadolinium	16S71	110	0C	60	86	-1F11	cps
Gadolinium	16S72	00	1SS	12-	1SS	2-F--	cps
Holmium	16C71	9S2216C	896C622	9SS08-9	8998C42	SF--	cps
Holmium	16C72	-92946C	4SS8C09	-90CC89	-901211	1FSS	cps
Indium	11C71	66206-2	6C42226	6C91146	6C80SS2	SF6C	cps
Indium	11C72	96610-	96C9C4	969844	960-2-	SF2-	cps
Iron	C472	-928	-0C1	-92-	-860	2F61	cps
Iron	C672	6C12S	64189	64220	64C12	SFB2	cps
Iron	C072	1CC6	1011	1602	1646	4F92	cps
Krypton	8-71	2CS	2CC	2-S	24C	CF4S	cps
Lead	2S671	CSC0	C1-4	CS18	CS0S	1F10	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	4C09	424S	4-9C	44SC	-F8C	cps
Lead	2S871	2SS9C	2S404	196C6	2SS0C	2FS4	cps
Lithium	671	2C966SC	264C22C	2629011	262-840	SF9C	cps
Ragnesium	2472	C60-0	C0899	C09CS	C0C29	1F19	cps
Ranganese	CC72	81S	8S-	0S0	00-	0F48	cps
Rolybdenum	9471	99C4	1S146	1S496	1S198	2F0S	cps
Rolybdenum	9C71	12C98	120-9	121-9	12492	2FC1	cps
Rolybdenum	9671	1-949	14224	1-682	1-9C2	1F94	cps
Rolybdenum	9071	0686	0469	00S2	0619	1F01	cps
Rolybdenum	9871	2S98-	19C22	2S2C0	2S2C4	-F61	cps
Neodymium	1CS71	1-	1-	2S	16	24F06	cps
Neodymium	1CS72	-	-	-	-	SFSS	cps
Nickel	6S72	8-0	88S	89-	80S	-F41	cps
Phosphorus	-172	20C	2--	-42	28-	19F29	cps
Potassium	-972	4C94S	4CCC6	4-906	4C1C8	2F-1	cps
5hodium	1S-71	66SC-0C	66486S9	661-044	6622C06	SF-C	cps
5hodium	1S-72	-186C4-	-144484	-1S9846	-1469C8	1F22	cps
3candium	4C71	4-8-924	42-118C	42C8C66	429122C	1F9S	cps
3candium	4C72	146-88	149189	144149	146C0C	1F02	cps
3elenium	8271	C16	4-S	49C	48S	9F-C	cps
3elenium	0072	1S	2S	1-	14	-CF26	cps
3elenium	0872	C-	0-	C6	61	10F08	cps
3ilicon	2871	211182	211-00	21SS69	21S806	SF-	cps
3ilver	1S071	6-4-	604-	6000	6621	-F64	cps
3ilver	1S971	C926	6-C2	6S-C	61S4	-F62	cps
3odium	2-72	1222S2	1214C-	121-20	121661	SF-9	cps
3trontium	8671	18SS	10C8	1060	100C	1F24	cps
3trontium	8871	1-C-2	1292-	12C2-	12992	-F91	cps
3ulfur	-471	-1-0C1	-1CC60	-10-44	-1CCC4	SFC0	cps
Terbium	1C971	9160021	9-S0921	924606S	924S8S1	SF06	cps
Terbium	1C972	-91-9C2	-944299	-892-4C	-91686C	SF60	cps
Thallium	2S-71	C46S	C1S1	CS-4	C198	4F4S	cps
Thallium	2SC71	1289S	1-S6C	1-2C0	1-S01	1F41	cps
Tin	11871	19048	1992-	2S-24	19998	1F48	cps
Titanium	4071	-0-4	-C84	-0S1	-60-	2F1C	cps
Mranium	2-871	10988	1929S	10902	18410	4F11	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	C172	C614	C4C1	C- - 4	C460	2FC0	cps
Ytterbium	10271	60	0C	C8	60	12FCS	cps
Ytterbium	10272	22	6	28	19	62F4-	cps
Ytterbium	10671	1642	148-	122C	14CS	14FC1	cps
Ytterbium	10672	1S180	90S4	9- S-	90- 2	4FCC	cps
Yttrium	8971	118614C6	11891S44	1100- SS4	118418- C	SFC2	cps
Yttrium	8972	1288640	1206699	1280C1-	1284280	SFC1	cps
Zinc	6672	0- S	01S	08-	041	CF12	cps
Zirconium	9S71	06- 6	809C	0- 20	0919	9F00	cps
Zirconium	9171	10SS	1060	1942	18S-	6F92	cps

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb A C A mb	2072	4-J2-	4-49-	4-0J2	4-JN9	SF-	ql w
c C&b nCy	12171	249944	2444N-	24J--6	246JNN	1F19	ql w
cpwr CAq	0J72	692S	6NN9	6N19	6N06	SF0J	ql w
Bsp A mb	1-J71	2666N4	20SJN9	2690-9	269SS4	SF06	ql w
Bsp A mb	1-071	4004J6	40904N	400S0-	40NS92	SF-S	ql w
Br pyP A mb	971	021-J	02S-S	02-N0	021N4	SF2J	ql w
B A mb m&a	2S971	JJ2NNJN	6-4S-N9	6200299	6S4NN49	0F46	ql w
B A mb m&a	2S972	-S11N61	294S9-9	291046-	29J60J4	1F66	ql w
Bpmb A Or	N171	4210	4192	4SN4	416J	1F0S	ql w
. sOb A mb	1SN71	J6SJ	JJ22	J-S9	J409	2F09	ql w
. sOb A mb	1S671	1S262	11--N	1S06-	1S0NN	4F99	ql w
. sOb A mb	11171	6-NSJ	6--S9	6J2SJ	641S0	1FJ-	ql w
. sP q A mb	4-71	N219-	N16J6	N19N-	N1944	SF-	ql w
. sP q A mb	4471	1--S49S	1-2-6S1	1-J-9NN	1--6S26	1F19	ql w
. spenC	1271	24949-S	2J64494	2J2J262	2J2N229	1F-N	ql w
. spenC	1272	-14S9	-12SS	-S92J	-110N	SF0N	ql w
. hP mp A Or	-J71	1-JS94	1-0SJ-	1-06NJ	1-661S	SF99	ql w
. hP mp A Or	-J72	11--	1142	NJN	1S4J	1JF44	ql w
. hpmb A mb	J272	064-S	0JN60	04416	0JJ01	1F-N	ql w
. nesR&	J972	1-6NN4	1--190	1-4002	1-49J1	1F-0	ql w
. nI l r p	6-72	11S-9-4	1S9JJS1	1SN0906	1S9JNS-	SF0-	ql w
t ywl pnw A mb	1J671	2J	10	10	19	24F0-	ql w
t ywl pnw A mb	1J672	10	-	1S	1S	66F0S	ql w
Epe A mb	16471	60	N-	--	61	41F60	ql w
Epe A mb	16472	0	20	-S	21	J9F00	ql w
GsOnF A C A mb	16S71	0J	110	42	0N	4NF-1	ql w
GsOnF A C A mb	16S72	110	12-	1S-	114	NF9S	ql w
HnP b A mb	16J71	NS-SJ02	N624-2-	NNJ610-	NJS-6N9	JFS1	ql w
HnP b A mb	16J72	-916J-J	-N6N1JN	-N-NSN6	-N0426S	1FS2	ql w
DDO A mb	11J71	JNS1JSJ	6421416	6-91J01	62S4N-1	JF6-	ql w
DDO A mb	11J72	9--246	91NN64	9SJ-26	919146	1FJ2	ql w
Dpn C	J472	10JS1J	10014S	10419-	10J4JS	SFN0	ql w
Dpn C	J672	--204JJ	--J-SJ9	--J-N16	--44000	SF4J	ql w
Dpn C	J072	N149-	0N6SS	091J-	0904N	1F9-	ql w
Kpyl &a C	N-71	244	242	249	24J	1F-J	ql w
Lr sO	2S671	116J004	11416NS	1161621	11J6-JN	1F11	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p: LB1264S0 o l r ps&ap: aswl sP

Lse 3sb l P D : 3S- DDw&pmb Or &usb r : 8N

. PA C&3sb l P D : 3S- t AP&nC Usq&ap: 1

t s& T i A r cqdmA r O: 2S2-7S0712 12:1J:2S t s&sUA P usb r : SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	999016	1S1S1JN	1SS-J0N	1SS44N4	SFJ-	ql w
LrsO	2SN71	4N0JS41	4N122S-	4NN41-6	4NJ0120	SFN1	ql w
LA&nAmb	671	2-JS24S	2J4J46S	2J-4422	24060S0	4F4-	ql w
RsgOr wAmb	2472	61N9N-	6144N4	6S04J2	61-64S	SF9J	ql w
RsOgsOr wr	JJ72	-N4J42	-00N66	-009NS	-NS129	1FS1	ql w
RnPyeOr Omb	9471	94J40S	9J206J	94420J	940JS-	SF49	ql w
RnPyeOr Omb	9J71	1-01-SS	141J01-	1421406	14S2N-S	1F96	ql w
RnPyeOr Omb	9671	1J-9-NS	1J49S4J	1JJ169S	1J460SJ	SF42	ql w
RnPyeOr Omb	9071	NJ09N-	NJ-124	NJ4262	NJJ12-	SF-S	ql w
RnPyeOr Omb	9N71	226NS-4	22460N0	2240--9	22J4SJ-	SFJ4	ql w
urnOybAmb	1JS71	2S	2S	--	24	-1F49	ql w
urnOybAmb	1JS72	0	-	-	4	4-F4S	ql w
uAqkrP	6S72	-NNS6	-0N40	-0904	-N2S9	1F-6	ql w
8hnwl hnpmw	-172	2-J9	2-N4	24J9	24SS	2F10	ql w
8n&swwAmb	-972	194209	1916S2	194S92	19--2J	SF00	ql w
5hnOAmb	1S-71	JNSN1JN	6J42166	644S-1S	626-J4J	6F-J	ql w
5hnOAmb	1S-72	-12NN-6	-S-S94-	294-2J4	-S-4-4J	-FS6	ql w
3qsCOAmb	4J71	-014-N4	41J-JN0	41-4121	4SSS690	6F2S	ql w
3qsCOAmb	4J72	1-9409	1-9126	1414N6	14SS-S	SF91	ql w
3rPCAmb	N271	JS0N	J22-	4N0N	JS6S	-F42	ql w
3rPCAmb	0072	19-	1-0	12-	1J1	24F6S	ql w
3rPCAmb	0N72	J-N	J6-	J9S	J64	4F61	ql w
3AAqnC	2N71	-1J4JSS	-S0J44S	-1-266S	-12SN60	1F-1	ql w
3APrp	1S071	-4SJ21	-4-6-S	-44461	-42N01	SF61	ql w
3APrp	1S971	-2J69J	-2S600	-19JJ-	-2190J	1FS2	ql w
3nOAmb	2-72	1149690	1129N20	1129169	11-62-1	1FS-	ql w
3&nC&Amb	N671	1N09-42	1N96N9J	1N0-140	1NN-12N	SF6J	ql w
3&nC&Amb	NN71	161SNN44	164J114N	1J9J499N	1610166-	1FJ0	ql w
3mPmp	-471	-4-J-0	--9699	-4S-S4	-411NS	SF6S	ql w
irpeAmb	1J971	N24NS90	912SJ22	9SS9116	N092J0N	JF4S	ql w
irpeAmb	1J972	-NJJ021	-NS0S--	-09JJJJ	-N194-6	SFN4	ql w
ihsPAmb	2S-71	2NS0N-	200-91	2006S9	20NJ94	SF6N	ql w
ihsPAmb	2SJ71	606-6-	64014-	66-92N	66240N	2F21	ql w
iAC	11N71	2S9JJ0	2S002N	2S64-1	2S09SJ	SF06	ql w
iA&sCAmb	4071	-0S-42	-022J6	-0-1S1	-019SS	SF-N	ql w
MpsCAmb	2-N71	9N6S21	90NS-4	9N4462	9N2N-9	SF4-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sU A P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	J172	J62N0	J04N1	J6622	J6090	1FSN	ql w
Y&&peAmb	10271	60	0J	JN	60	12FJS	ql w
Y&&peAmb	10272	- -	2N	2N	- S	1SFN1	ql w
Y&&peAmb	10671	2-J9	21JS	2J0J	2-61	9FSS	ql w
Y&&peAmb	10672	90N2	966J	94-0	962N	1FN2	ql w
Y&&pAmb	N971	1S16JJ02	110JSNN-	114J49NJ	1112-N1-	0FJN	ql w
Y&&pAmb	N972	126-J-1	1221600	119N4SN	1220N02	2F69	ql w
ZACq	6672	1-6J24	1-J0NS	1-4S92	1-J46J	SF92	ql w
ZAqnCAmb	9S71	429024	4-N46-	4- - 9N2	4-4SJ6	1FS1	ql w
ZAqnCAmb	9171	90S21	96J2J	90-1J	969J-	SF41	ql w

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	1S-4S5	1S165-	1S15-1	1S2190	1.S-	cpw
Antimony	12171	5J9J15	61614S	6S956S	6S5102	2.26	cpw
Arwenic	0572	16-92	15J61	15092	16S15	2.S5	cpw
Bsrium	1-571	644552	606JS1	66J992	66-44J	2.54	cpw
Bsrium	1-071	1154S15	12SS-11	11002-2	11001J6	1.90	cpw
BeryPium	971	160590	10---J	1012S5	10S01-	1.0S	cpw
Biwmuth	2S971	61-5229	54-2-S0	5949-99	5J-J909	6.24	cpw
Biwmuth	2S972	2J0J612	2J0S215	2941412	2J96046	1.-4	cpw
Bromine	J171	-J42	4SS1	4106	4SS6	4.16	cpw
Csdmium	1SJ71	1-265	1-10-	1-S9J	1-109	S.6-	cpw
Csdmium	1S671	2S0J-	21551	2S925	21SJ6	1.94	cpw
Csdmium	11171	15S44S	1509S-	15J16S	1555S1	2.J2	cpw
CsPium	4-71	19SJ-0	190204	1956JS	194590	1.02	cpw
CsPium	4471	-S5124-	-1-J26J	-211090	-1--069	2.56	cpw
Csrbon	1271	24J660-	24JS006	240056-	24J1601	S.19	cpw
Csrbon	1272	-1125	-1S5S	-S250	-SJ11	1.56	cpw
ChPrine	-571	129JJS	1-250J	1-1001	1-141S	1.S5	cpw
ChPrine	-572	1S10	JSJ	905	9--	11.J1	cpw
Chromium	5272	1JSS56	1040-4	102-56	105016	2.24	cpw
CobsPt	5972	-2J5-2	-2S946	-21-14	-2-590	1.-2	cpw
Copper	6-72	2J56S05	26966J9	20129-J	20552-4	-.1J	cpw
Dywprowium	15671	60	J-	1SJ	J6	24.-5	cpw
Dywprowium	15672	10	2-	4S	20	45.S0	cpw
Erbium	16471	05	60	5J	60	12.5S	cpw
Erbium	16472	20	10	--	26	-2.J1	cpw
GsdoPnium	16S71	125	1SS	J-	1S-	2S.4S	cpw
GsdoPnium	16S72	1J-	140	15-	161	12.12	cpw
HoPnium	16571	J0S94JS	064-24S	J4400J6	J266J-5	6.02	cpw
HoPnium	16572	-0J945S	-09052-	-J4-S-0	-J1SSS-	S.06	cpw
Indium	11571	61J5961	56S6199	6SJ0462	5959J04	5.21	cpw
Indium	11572	JJ6-51	JJ0210	JJSJ92	JJ4J2S	S.-9	cpw
Iron	5472	424014	416S64	416554	419111	1.16	cpw
Iron	5672	092-4J6	0JS01-2	0J24120	0J515J1	S.JS	cpw
Iron	5072	192545	1J941S	1J54-6	1J91-S	1.JJ	cpw
Krypton	J-71	241	2-6	2-0	2-J	1.S9	cpw
Lesd	2S671	-SJ12J9	-11J469	-1-J241	-112666	S.9-	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	25J4001	2022661	2019014	2605015	2.94	cpw
Lesd	2SJ71	11905250	12469-6J	12-J-6S2	12206S06	2.15	cpw
Lithium	671	245591S	215S4-9	2-5-91-	2-2SSJ0	6.0S	cpw
Msgnewium	2472	15SJ4J5	1499905	152-5S9	151S650	S.09	cpw
Msngsnewe	5572	9110-1	JJ659S	J91922	J9604J	1.4J	cpw
MoPybdenum	9471	2--1-1S	2-J96-1	2-6-426	2-61456	1.24	cpw
MoPybdenum	9571	--514SJ	-46-425	-45J0S5	-42451-	1.J5	cpw
MoPybdenum	9671	-64619S	-09JS-5	-009S4J	-041S91	2.21	cpw
MoPybdenum	9071	2S6SS2S	215221-	2S90-9-	21S-2SJ	2.2S	cpw
MoPybdenum	9J71	5---060	5425S05	54S494J	5-J09-S	S.J9	cpw
Neodymium	15S71	J0	--	9-	01	46.25	cpw
Neodymium	15S72	0	1S	1S	9	21.6-	cpw
NickePl	6S72	9SS09	JJ45-	9S150	J956-	1.S0	cpw
8howphoruw	-172	514-	499-	5-S9	514J	-.SJ	cpw
8otswwium	-972	45SSS0	4-514J	4-5S19	44SS5J	1.96	cpw
Rhodium	1S-71	6-S549S	55240J9	59J641J	59-JJ99	6.61	cpw
Rhodium	1S-72	29S-6JS	2J94J24	291J05S	29S5051	S.42	cpw
3csndium	4571	4S-50-0	-549659	-J4J011	-J11-69	6.4-	cpw
3csndium	4572	1-4041	1-56-0	1--15-	1-451S	S.94	cpw
3elPenium	J271	11909	12S0S	121-5	12S61	S.65	cpw
3elPenium	0072	-4-	--S	4SS	-5J	1S.-9	cpw
3elPenium	0J72	1216	1204	1212	12-4	2.J1	cpw
3iPcon	2J71	6J01211	011S-40	0S0J222	0S19926	1.J5	cpw
3iPer	1S071	J1J252	J2S-J2	J-5619	J24051	1.15	cpw
3iPer	1S971	06-S24	094J-S	099S-J	0J56-1	2.51	cpw
3odium	2-72	265S65S	26-5055	26S2-99	26296S2	S.94	cpw
3trontium	J671	4522S6-	40S5SS5	4614-11	461-09-	1.9J	cpw
3trontium	JJ71	-0096S6J	-95264S5	4S2055-5	-9199--6	-.24	cpw
3ulPur	-471	-6JJ52	-65J44	-654S1	-66699	S.51	cpw
Terbium	15971	J9156JS	09S956-	J-465S1	J-9S5J1	6.S1	cpw
Terbium	15972	-00J-2J	-049J42	-604600	-0-42J2	1.4-	cpw
ThsPium	2S-71	6J05S4	690-J9	69065J	6941J4	S.J-	cpw
ThsPium	2S571	16J0922	1005-0-	106SS4-	104111-	2.6J	cpw
Tin	11J71	409922	515962	51545S	5S-00J	4.1S	cpw
Titsnium	4071	J045SS	J95129	9SJ6S0	J92045	1.92	cpw
Ursnium	2-J71	2512J4-	2559522	25J444S	255226J	1.42	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
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CPrent 3smpPe ID :	3S4	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1-6915	1-S69J	1-26-4	1--416	2.-J	cpw
Ytterbium	10271	J-	5S	J-	02	26.65	cpw
Ytterbium	10272	61	-9	J-	61	-6.-0	cpw
Ytterbium	10671	41J4	4SJ4	4406	424J	4.09	cpw
Ytterbium	10672	994J	9065	9926	9JJS	1.S1	cpw
Yttrium	J971	11190129	9J50S05	1SJ9JJ29	1S651S11	6.61	cpw
Yttrium	J972	11J-S54	1106141	110S491	1106562	S.5-	cpw
Zinc	6672	-21-JJ	-149S0	-14J-1	-10S42	1.19	cpw
Zirconium	9S71	1S-22J5	1S0195S	1S02094	1S59S1S	2.19	cpw
Zirconium	9171	2-S9J0	2-6509	24S469	2-6S12	2.S2	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
q8be c dbe	20 2	1a4716	1a7uS4	1a16u6	1a726a	SU02	dDI
q. Tde C. y	121 1	11uSu2S	11uS7S4	11u0476	11u2u-7	SU74	dDI
qII p. dd	0- 2	711S6	7S70-	7S162	7S-4u	1U62	dDI
BwIdbe	17- 1	17S2a4-	17S7144	17SS06u	17S22u6	SU1S	dDI
BwIdbe	170 1	27-10Su	27-716S	2726S1S	2747626	SU6-	dDI
Bply8dbe	a 1	72212u	72S4u1	72SS1a	72Su06	SU7-	dDI
Bdde bTh	2Sa 1	612S141	6Su64u-	620u0S6	6161000	1U60	dDI
Bdde bTh	2Sa 2	2u7Su01	2u6u0a-	7S02210	2a27a61	4U44	dDI
BIDe c p	u1 1	76a2	76Sa	7626	7642	1U21	dDI
Fwoe dbe	1Su 1	2407-	24-uS	2-7u6	24aSS	1U02	dDI
Fwoe dbe	1S6 1	76204	76010	7077-	7600-	1U4-	dDI
Fwoe dbe	111 1	2a--S0	2a6aa4	2au06S	2a0Su0	SU--	dDI
Fw8Idbe	47 1	76a0S4	702-a7	760-72	76aa47	SU6a	dDI
Fw8Idbe	44 1	-a776a-	6S6au24	-a10au-	-a07u7-	1U4S	dDI
FwIr C.	12 1	2416a7u	27-11a0	27uuuS2	27u-646	1U7u	dDI
FwIr C.	12 2	71S-S	7S1aS	7S624	7S621	1U4S	dDI
Fh8DIc p	7- 1	12-S-4	124a11	1240u4	124a16	SU11	dDI
Fh8DIc p	7- 2	uSS	11SS	a-u	a-7	1-U0-	dDI
FhIDe dbe	-2 2	776706	77u--0	772411	77-0u1	SUa7	dDI
FDr w8T	-a 2	61aS0S	617-u7	6S2aS6	611u-7	1U74	dDI
FDDDpI	67 2	-27u7-7	-1220uu	-Suu141	-14a06S	1U-7	dDI
&yI DIDI dbe	1-6 1	12-	1SS	1Su	111	11U46	dDI
&yI DIDI dbe	1-6 2	7S	77	77	72	-Ua0	dDI
EIr dbe	164 1	a2	60	0-	0u	16U70	dDI
EIr dbe	164 2	4S	7S	7S	77	10U72	dDI
GwoC8c dbe	16S 1	210	177	2Su	1u6	24U66	dDI
GwoC8c dbe	16S 2	120	140	10S	14u	14U60	dDI
HC8e dbe	16- 1	u4-0246	u6S6a41	u-0246-	u-4---1	SUa2	dDI
HC8e dbe	16- 2	76u1Sa6	704S7aS	7aa2u27	7uS400S	4U7-	dDI
t. odbe	11- 1	6Sa11-S	610SS-0	6164S0a	6141062	SU02	dDI
t. odbe	11- 2	u-2S64	u6-u01	a47S44	uu6aa7	-U-7	dDI
tIC.	-4 2	0a42a2	0aa6u0	0u0u71	0a7a70	SU0-	dDI
tIC.	-6 2	14u72404	14aaS0aa	14a2S4-6	14a14-06	SU-7	dDI
tIC.	-0 2	7671-a	7-uS4-	7-4-7-	7-u-uS	1U21	dDI
KIyDTC.	u7 1	246	226	20S	240	uUu-	dDI
Lpwo	2S6 1	6Sa7Suu	6S7-127	6106S01	61S1420	1U16	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Lpwo	2S0 1	- 2a0u64	- 21661a	- 717u00	- 20612S	S1aa	dDI
Lpwo	2Su 1	2477Sa41	24S426u-	2467027a	24776a- -	1U22	dDI
LdTbe	6 1	27471- 6	276S107	271046a	274S266	S1a2	dDI
5 wg. pI dbe	24 2	2u- 61a7	2u2a24-	2u107Sa	2u7424a	SU0S	dDI
5 w. gw. pI p	- - 2	10u- ua2	1u4uS21	10u- 6u1	1uS6- 71	1Uaa	dDI
5 C8yr op. be	a4 1	44264u-	4706- 20	440S174	44247u2	1US6	dDI
5 C8yr op. be	a- 1	644- u6a	67aa1a6	640264-	647a270	SUJu	dDI
5 C8yr op. be	a6 1	0S2u- 1S	0S- 6402	0Saa662	0S61- 4u	SUJ1	dDI
5 C8yr op. be	a0 1	4SS1au1	4S1S4a6	7aS6674	7a07S70	1U4-	dDI
5 C8yr op. be	au 1	1S2760uu	1S2S4Sua	1S242177	1S22060S	SU2S	dDI
mpCoye dbe	1- S 1	1S0	a7	1S0	1S2	0UJ7	dDI
mpCoye dbe	1- S 2	17	1S	0	1S	77U7S	dDI
mdkp8	6S 2	101a7u	160240	166- 17	16u- 66	1U0-	dDI
NhCI DhCIbI	71 2	a6u0	a- a-	a462	a- u1	1U1u	dDI
NCTwI I dbe	7a 2	u2S101	u2S22a	u221a1	u2Su64	SU14	dDI
9 hCodbe	1S7 1	- aS624u	6Sa26- -	6S10- 10	6SS- 404	1UJ6	dDI
9 hCodbe	1S7 2	20u0Sa4	2u61276	7S621- 1	2aS74a4	4UaS	dDI
3 dw. odbe	4- 1	7u47616	7a- aS27	7a0- 060	7a2617-	1Uu7	dDI
3 dw. odbe	4- 2	12aS67	171422	17a- 0S	1777- 2	4U17	dDI
3 p8p. dbe	u2 1	272S0	27712	27767	272a4	SU74	dDI
3 p8p. dbe	00 2	6uS	600	0S0	6uu	2U7a	dDI
3 p8p. dbe	0u 2	22a-	22u6	22- S	2200	1US-	dDI
3 8dC.	2u 1	177u4a04	171u67- 2	172u- 407	172u- 6SS	SU0-	dDI
3 8vpI	1S0 1	16Sa1a0	1610411	160S4u4	1672764	2US4	dDI
3 8vpI	1Sa 1	1- 0S0a7	1- 001S2	1- u417a	1- 00744	SU42	dDI
3 Codbe	27 2	4au47u7	4uuu44S	4ua1- aS	4a21401	1U11	dDI
3 TC. Tbe	u6 1	u044- uS	uu0- 1S2	u00Su4u	u0a6u47	SU0u	dDI
3 TC. Tbe	uu 1	0662a1a7	0- Sa270-	06a7S671	062104SS	1U2a	dDI
3 b8bI	74 1	41ua2S	416auS	4164u-	410462	SU71	dDI
ApIr dbe	1- a 1	u7au0a-	uu2S- S2	uua7- 4S	u0S420a	7US0	dDI
ApIr dbe	1- a 2	74aS- 7S	76S0a27	7uaSS64	7662u7a	- U61	dDI
Ahw8bbe	2S7 1	17- 62- 1	172u47u	17- 2a00	174- uua	1U17	dDI
Ahw8bbe	2S- 1	74S0167	77u64a1	7- 2- 7- 6	747a60S	2U1u	dDI
Ac	11u 1	aaSa- 0	au6ua1	a6a722	au27aS	1U10	dDI
AdTw. dbe	40 1	10711- -	1067- 42	10S7172	107261S	1U04	dDI
RIw. dbe	27u 1	4a017- 1	- S26024	- S4S1a7	- S120- 6	SU07	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuFqL3Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Vw. wodbe	-1 2	2-0066	2---S1	2-2-u-	2--2u4	1US2	dDI
YTpIr dbe	102 1	1Su	1Su	u7	1SS	14U47	dDI
YTpIr dbe	102 2	44	-6	-S	-S	11U11	dDI
YTpIr dbe	106 1	606S	02S2	0200	0SuS	7Ua-	dDI
YTpIr dbe	106 2	11-16	117-S	1222u	116au	7Uaa	dDI
YTTdbe	ua 1	1S62024S	1110a44u	111a2u1a	1Saaau76	2Ua7	dDI
YTTdbe	ua 2	1121276	116a-1a	17Su027	11aau26	uU11	dDI
Zc d	66 2	6S-Su7	-a0727	-a--71	-aa712	SUu-	dDI
ZdcdC. dbe	aS 1	212460a	217a24a	21-0214	214S7uS	SU06	dDI
ZdcdC. dbe	a1 1	44a270	4-6ua4	4-u4u7	4-4u01	1USa	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	-CS428	-88-S-	-801C6	-88642	SF42	cps
Antimon9	12171	24S084C	24240-4	24-C1-0	242-CS0	SF6y	cps
Arsenic	0y72	616y6	622-8	61662	618y2	SFy4	cps
Barium	1-y71	26-886-	26C841-	26y-428	266-y68	1F10	cps
Barium	1-071	46yy046	4y00-4S	46S-4y8	4612181	SF80	cps
Ber9llium	C71	6S00-C	61y-C2	6S824S	61S4y0	SF0S	cps
Bismuth	2SC71	6SCC-26	61406CC	61C0264	6148SC6	SF8S	cps
Bismuth	2SC72	2C2S-21	2C16-0C	2884-S8	2CS0SS-	SF68	cps
Bromine	8171	-606	-2-4	-410	-442	6F4y	cps
. admium	1S871	40CS4	488Cy	48-64	48-88	1FS2	cps
. admium	1S671	60C-y	680-S	0SS08	68C14	1Fy0	cps
. admium	11171	y8Sy8y	y821y-	y04C6y	y0C2-4	SF6y	cps
. alcium	4-71	01-y-8	028y40	024-6-	02214C	1FS0	cps
. alcium	4471	1161y8Sy	11C1C-8y	11CS808S	118146y0	1F46	cps
. arbon	1271	244S6yS	2418166	246C844	2442880	1FS6	cps
. arbon	1272	-2461	-2-28	-24Cy	-2428	SF20	cps
. hlorine	-y71	12SC0C	1210-4	12y1C0	1226-0	1F8-	cps
. hlorine	-y72	88-	CSS	060	8yS	8Fyy	cps
. hromium	y272	6044S2	68S1y6	60y4S-	6066y4	SF4y	cps
. obalt	yC72	1210-24	12-S146	12-6C82	12281y1	SF81	cps
. opper	6-72	1S2-C164	1S2y-82C	1S2620S8	1S2y1CSS	SF12	cps
D9sprosium	1y671	1S8	18-	2--	10y	-yFCy	cps
D9sprosium	1y672	C-	0-	60	08	10F84	cps
Erbium	16471	110	1S8	1yS	12y	10F64	cps
Erbium	16472	y0	20	yS	44	-yF44	cps
Gadolinium	16S71	22y	1C2	2y8	22y	14F82	cps
Gadolinium	16S72	1C-	100	22S	1C0	11F11	cps
Holmium	16y71	86C11C4	8048C-S	86-2y01	86CS8C8	SF60	cps
Holmium	16y72	-81612-	-0-S10y	-8-426-	-0C-y2S	1F40	cps
Indium	11y71	61-C444	6S601C2	6S8y004	6SC040S	SF62	cps
Indium	11y72	862222	86yS28	8yy112	86S080	SFyC	cps
Iron	y472	160S288	10S2y6y	101C246	16C0-66	1F40	cps
Iron	y672	2C80S24C	2C6yyS60	-SS08-10	2C860808	SF01	cps
Iron	y072	021yS-	02ySC8	0-1yy6	026Sy2	SF0S	cps
Kr9pton	8-71	226	2-S	2-0	2-1	2F48	cps
Lead	2S671	11C2-614	12S4-408	118-C-0C	11C-y4CS	SF86	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	1S-S082-	1Sy-S-08	1S-11281	1S-8-161	1F2-	cps
Lead	2S871	401424C-	48-1y021	4080y406	400008C0	1F24	cps
Lithium	671	22y6S16	21C4-S2	2268810	22-C011	1F08	cps
Ragnesium	2472	y60262-	yy2-y6-	yy6y811	yy80--2	1F-0	cps
Ranganese	yy72	-y684C0	-6Cy04S	-6616C4	-641C00	1FB1	cps
Rol9bdenum	C471	86-1SC2	80y0CC-	88-Sy4S	80-C80y	1F16	cps
Rol9bdenum	Cy71	12016841	120-8S0y	1-SS0C4-	1282SCy-	1F20	cps
Rol9bdenum	C671	14SS6Syy	14S611-y	1414Sy6y	14S6C2y2	SF48	cps
Rol9bdenum	C071	0C4041-	0C6S2S1	08-y1S1	0C142-8	SFB0	cps
Rol9bdenum	C871	2S40Cy-8	2SCS48y0	2S416y4-	2S6SS-1-	1F2C	cps
Neod9mium	1yS71	2SS	18S	1y-	108	1-F10	cps
Neod9mium	1yS72	1-	1S	1-	12	1yF0-	cps
Nickel	6S72	--80y-	--8--C	--810-	--8422	SFSC	cps
Phosphorus	-172	1C802	1886-	1C002	1CyS2	2FBy	cps
Potassium	-C72	160-C1S	10486S2	101-22y	1011C12	2F18	cps
5hodium	1S-71	yCCS4y0	6S6y8-y	y81820-	yCy818C	2F1-	cps
5hodium	1S-72	20686CC	28S2-y0	28S0460	20C2841	SF0y	cps
3candium	4y71	-Cy6SCS	-8CC446	-8y0C-2	-CS448C	1F26	cps
3candium	4y72	12CS00	1-S1-0	12C0S-	12C6-C	SF41	cps
3elenium	8271	444-C	442C2	440-2	44488	SFyS	cps
3elenium	0072	1-00	1-CS	146-	141S	-F-1	cps
3elenium	0872	4yC0	448C	44y2	4y1-	1F60	cps
3ilicon	2871	2y8S2y4-	2y16C2y1	2ySSS-C0	2y-24S64	1F60	cps
3ilver	1S071	-22-2SC	-248122	-20-414	-24824C	SF00	cps
3ilver	1SC71	-Sy881S	-12ySyy	-S-C606	-S04y14	1F46	cps
3odium	2-72	CC2S64y	C0CySS0	1SS-8SC-	CC10C1y	1F2-	cps
3trontium	8671	16C8S2y8	101861C0	102-S-SC	101-22yy	SF08	cps
3trontium	8871	1yS6y8CC1	1y226C480	1y2y08-2S	1y18-yyCC	SF68	cps
3ulfur	-471	y2y8y8	y2-0-4	y2y6C2	y2ySCy	SF22	cps
Terbium	1yC71	80yCS6C	8Cy8810	88200-0	8848y41	1F1y	cps
Terbium	1yC72	-0C0818	-0S81S8	-066-C4	-0y044S	1F21	cps
Thallium	2S-71	28S-1C1	2CSy6-C	28120C0	284Sy42	1FCC	cps
Thallium	2Sy71	6020S18	6828210	66C61C1	60yS406	1FS2	cps
Tin	11871	1C84261	2S-y2y2	1CCCyy6	2SS6-y6	1F-S	cps
Titanium	4071	-418SSy	-428240	-4yyC-0	-4-4S6-	SFy0	cps
Mranium	2-871	C0S2160	1S2-18S2	1S10CS40	1SS-0602	2FC1	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	y172	y1yS24	y1C168	y10yS6	y102- -	SF4S	cps
Ytterbium	10271	1yS	142	1y8	1yS	yFy6	cps
Ytterbium	10272	1SS	1SS	y6	8y	- SF12	cps
Ytterbium	10671	128CS	12- y6	1- 24S	1282C	- F40	cps
Ytterbium	10672	14S- y	141C0	14441	1422y	1F44	cps
Yttrium	8C71	11- - 414C	1S04- SC2	11S48842	11S42S28	2F68	cps
Yttrium	8C72	11yy- 2-	11y6- 0y	11y8SS6	11y6y68	SF12	cps
Zinc	6672	11C82- 6	12S- S24	11C4C8-	11C8048	SF- 4	cps
Zirconium	CS71	410S486	4S6S242	4- 1S8- 8	418Sy22	- FSS	cps
Zirconium	C171	8C00C6	8C- - y-	CS6186	8CC112	SF02	cps

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	0J0145	0J1121	09-S16	0J0S94	S.06	cpw
Antimony	12171	4J-S461	51S4055	49614S4	496554S	2.06	cpw
Arwenic	0572	120S5-	125JS-	126J1S	126555	S.52	cpw
Bsrium	1-571	5-1S---	55--061	5456219	54--4-J	2.S9	cpw
Bsrium	1-071	94S4942	90J60-9	946J--9	955--4S	2.14	cpw
BeryPium	971	1216614	1255-2J	1216952	12296-1	1.J1	cpw
Biwmuth	2S971	61J9114	5526--0	6S49116	5921522	5.9S	cpw
Biwmuth	2S972	2JJ0541	29S9095	29625J2	291990-	1.-2	cpw
Bromine	J171	-S05	2J92	-142	-S-0	4.26	cpw
Csdmium	1SJ71	95449	909J4	90606	90S-6	1.4-	cpw
Csdmium	1S671	1--500	1-0962	1-694-	1-6161	1.69	cpw
Csdmium	11171	11512--	11JJ5J-	116606J	116JJ62	1.61	cpw
CsPium	4-71	15412-J	1611S29	152J069	156S-45	2.J4	cpw
CsPium	4471	2-424416	24S9-599	2-2J2661	2-6SS225	1.J4	cpw
Csrbon	1271	24-629J	249JS0S	259S654	25SJ-4S	-.1S	cpw
Csrbon	1272	-4691	----J	-6S11	-46JS	-.J5	cpw
ChPrine	-571	119909	122J6S	12-J00	1222-9	1.65	cpw
ChPrine	-572	1SSS	J42	1110	9J6	14.SS	cpw
Chromium	5272	14J440-	1445-5-	1440462	1459S96	1.51	cpw
CobsPt	5972	26-S1S4	2509524	2564-00	2591--5	1.--	cpw
Copper	6-72	2S5S9S1-	2S509106	2S59596S	2S561-J-	S.22	cpw
Dywprowium	15671	2J-	-42	460	-64	25.04	cpw
Dywprowium	15672	10-	210	15S	1JS	1J.09	cpw
Erbium	16471	2SJ	15S	242	2SS	2-.2S	cpw
Erbium	16472	50	60	40	50	10.65	cpw
GsdoPnium	16S71	292	-05	-SJ	-25	1-.50	cpw
GsdoPnium	16S72	250	20-	-4-	291	15.JS	cpw
HoPnium	16571	9169402	09292J1	JJ194SS	J6-9-J4	0.4S	cpw
HoPnium	16572	-091S5J	-904462	-96002S	-911SJS	2.66	cpw
Indium	11571	6161905	5405S29	6162001	59--25J	6.69	cpw
Indium	11572	J0S652	J694S6	J0-5S2	J011J0	S.24	cpw
Iron	5472	-4211-2	--6S0S-	--9251S	--91449	S.J9	cpw
Iron	5672	62S5159S	595-6164	6S15J-SJ	6S5J2S21	2.16	cpw
Iron	5072	1560665	1529449	1556040	15512J0	1.20	cpw
Krypton	J-71	222	244	2-1	2-2	4.59	cpw
Lesd	2S671	2461-6-S	24-54JJ5	245-426-	245SS926	S.54	cpw

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	21190-JJ	2S925J12	2152115S	212140J-	1.4S	cpw
Lesd	2SJ71	90J4J5-6	9019609S	9J-9S191	90J11J-9	S.61	cpw
Lithium	671	2140549	2S5--00	210-299	2124042	2.90	cpw
Msgnewium	2472	114S0-5S	11--6J24	112J2162	11-42112	S.55	cpw
Msngsnewe	5572	0-21461	0144926	0412162	0292J49	1.J6	cpw
MoPybdenum	9471	1JS6-194	1J52SJ02	1JS05J5J	1J219905	1.4-	cpw
MoPybdenum	9571	26S-9-29	260J9059	26091966	2654S-51	1.6-	cpw
MoPybdenum	9671	2J-9J64J	2921-200	29-11629	2J90451J	1.0-	cpw
MoPybdenum	9071	1622929J	166S1J-2	16-941J9	164SJ44S	1.14	cpw
MoPybdenum	9J71	41604596	42-62144	4--50241	4246466S	1.99	cpw
Neodymium	15S71	-20	2J0	-40	-2S	9.55	cpw
Neodymium	15S72	6S	4-	4-	49	19.69	cpw
NickePP	6S72	600291	60SS5J	60J42-	605250	S.60	cpw
8howphoruw	-172	-9-54	4S4J2	4S641	4S159	1.05	cpw
8otswwium	-972	-5210-9	-425655	-5J--54	-51S249	2.26	cpw
Rhodium	1S-71	6SJJ616	5444022	590J9S4	5J-0414	5.9S	cpw
Rhodium	1S-72	2JS925-	2J5J016	2J15151	2J200S6	S.96	cpw
3csndium	4571	-992J--	-6S-6-0	-0JJ054	-095S05	5.1-	cpw
3csndium	4572	1-4402	1-2145	1-5600	1-4S9J	1.-4	cpw
3ePenium	J271	J0J5S	J9J-5	J9S09	JJ921	1.1-	cpw
3ePenium	0072	26JS	2040	2040	2025	1.41	cpw
3ePenium	0J72	J921	J949	J94J	J9-9	S.1J	cpw
3iPcon	2J71	49290924	5S-2S-41	49121256	49509J4S	1.-1	cpw
3iPer	1S071	6-9--J0	65S94S4	6-00S0J	642662-	1.12	cpw
3iPer	1S971	5941J0J	626-6J5	6S5412S	6SJ6561	2.6J	cpw
3odium	2-72	19000194	19J9450S	1994J-24	19J0--62	S.44	cpw
3trontium	J671	-546JJ-9	-6S4-9-6	-5J51164	-50J09JS	S.J2	cpw
3trontium	JJ71	-1S14J-49	-1200SJS0	-1-04J099	-12222651	S.6S	cpw
3uPPur	-471	00S125	0J2626	069226	00-992	S.90	cpw
Terbium	15971	911-214	J2SSJ61	J050655	J69S500	5.29	cpw
Terbium	15972	-00S19S	-JSJ621	-JS1106	-09--29	S.54	cpw
ThsPPum	2S-71	50590S0	5J260-5	50-0J9J	50040JS	S.JS	cpw
ThsPPum	2S571	1-0J1600	1-00S-0-	1-54-165	1-69J4S5	S.9J	cpw
Tin	11J71	4S-0JJ9	4156112	4S609J0	4SJ0-29	1.5S	cpw
Titsnium	4071	6J0SJ-4	6999012	699J145	69562-1	1.S6	cpw
Ursnium	2-J71	2S560521	21-J-JS5	2S666J55	2SJ02020	2.1-	cpw

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LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpRe ID :	3S0	Inwtrumnet Nsme :	8J
CRrent 3smpRe ID :	3S0	DiRtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiRe Nsme :	S1SCAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1S542J4	1S49516	1S6S625	1S54JS9	S.5-	cpw
Ytterbium	10271	225	160	1J-	192	15.6J	cpw
Ytterbium	10272	1S6	144	110	122	16.-9	cpw
Ytterbium	10671	25S5S	26S1S	25J59	256-9	2.S1	cpw
Ytterbium	10672	19426	19J1S	19142	19459	1.02	cpw
Yttrium	J971	114S90-9	1SSJ-015	111S-092	1SJ65049	6.-9	cpw
Yttrium	J972	11J6J02	119J552	11J4S42	11J9J22	S.65	cpw
Zinc	6672	251-S4S	25--J59	255S246	25-2-J2	S.04	cpw
Zirconium	9S71	J49SJ4-	JJ19S59	J4J5965	J59J622	2.22	cpw
Zirconium	9171	192192S	1909S-0	1904450	195J401	1.62	cpw

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LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
APminium	20 2	751S- 1-	7- - S91-	4S2- 416	7575510	1.5-	cpw
Antimony	121 1	2052	269S	4S26	7196	27.50	cpw
Arwenic	09 2	45	97	04	95	22.- 5	cpw
Bsrium	179 1	4157	77S5	7- 06	7052	11.- 1	cpw
Bsrium	170 1	0176	6076	6- S2	6- 51	7.11	cpw
BeryPium	5 1	254	2S1	252	262	2S.21	cpw
Biwmuth	2S5 1	9949666	4- 51027	9995265	9772215	0.16	cpw
Biwmuth	2S5 2	2072110	2015000	2047792	2071045	S.47	cpw
Bromine	- 1 1	9657	0S44	0576	6- 51	16.75	cpw
Csdmium	1S- 1	1S-	05	1SS	56	19.6-	cpw
Csdmium	1S6 1	74S1	7129	7942	7796	6.71	cpw
Csdmium	111 1	1SS2	- 04	5S1	529	0.2-	cpw
CsPium	47 1	6999944	6- 64624	60- 0- 64	6076S11	2.75	cpw
CsPium	44 1	1S- 900549	11145S1S6	11S411591	11S16SSS1	1.74	cpw
Csrbon	12 1	225267S	2767159	2474219	2767740	7.SS	cpw
Csrbon	12 2	74719	74- 09	79792	74- 40	1.45	cpw
ChPrine	79 1	172650	17- S0S	17- 4S-	176751	2.79	cpw
ChPrine	79 2	1110	1S9-	12- 7	1197	1S.17	cpw
Chromium	92 2	- 9S6	- - 25	- 947	- 626	2.S9	cpw
CobsPt	95 2	6119	6141	6S99	61S4	S.07	cpw
Copper	67 2	0719	0229	0252	020-	S.64	cpw
Dywprowium	196 1	1SSS	1S60	11SS	1S96	4.- 2	cpw
Dywprowium	196 2	450	9SS	450	45-	S.75	cpw
Erbium	164 1	229	2S-	19S	154	2S.26	cpw
Erbium	164 2	16S	50	60	1S-	44.21	cpw
GsdoPhium	16S 1	12- 7	1S9S	1210	11- 7	1S.16	cpw
GsdoPhium	16S 2	- - S	090	097	050	5.S6	cpw
HoPmium	169 1	- 9- 9S5S	04- 224S	- 0461- S	- 20110S	- .72	cpw
HoPmium	169 2	7- 92097	7- 42- 19	7- 2- - 9S	7- 41407	S.71	cpw
Indium	119 1	9- S- 415	9S59205	9- 00- 50	9957- 69	0.04	cpw
Indium	119 2	- 0674-	- 60509	- 6- 51-	- 01S- S	S.97	cpw
Iron	94 2	16149S95	1615S744	19- 17045	16S4501-	1.2-	cpw
Iron	96 2	2511- S- 91	2500S0062	2- 55S- 0S6	25257244S	1.47	cpw
Iron	90 2	046629S	0706205	045S059	0444441	S.- 1	cpw
Krypton	- 7 1	224	225	296	276	0.41	cpw
Lesd	2S6 1	12640	11691	179S4	126SS	0.76	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
Lesd	2S0 1	12415	5719	1S599	1S-56	14.29	cpw
Lesd	2S- 1	99-26	4929S	91---	9S5--	1S.4-	cpw
Lithium	6 1	2S6427-	1-16249	2S4424-	150451S	6.5-	cpw
Msgnewium	24 2	94544-0-	9429S5S9	94219150	9440S720	S.06	cpw
Msngsnewe	99 2	9701	9764	9444	9757	S.-2	cpw
MoPybdenum	54 1	-262	95S2	-9-0	09-7	15.77	cpw
MoPybdenum	59 1	1S541	-27-	5517	5650	14.S0	cpw
MoPybdenum	56 1	1260S	57S4	12477	11465	16.7-	cpw
MoPybdenum	50 1	6949	911S	6--9	61-S	19.29	cpw
MoPybdenum	5- 1	1-45-	11475	10290	19071	27.56	cpw
Neodymium	19S 1	2SS	2SS	2SS	2SS	S.SS	cpw
Neodymium	19S 2	6S	77	60	97	77.S-	cpw
NickePP	6S 2	79S0	7720	7294	7767	7.--	cpw
8howphoruw	71 2	109	29-	210	210	15.27	cpw
8otswwium	75 2	1072717-	10204192	1070-S65	1072912S	S.7S	cpw
Rhodium	1S7 1	990S7SS	4-5-995	9491746	97S6079	6.09	cpw
Rhodium	1S7 2	264S5-1	2675-S-	26---16	2696979	1.S9	cpw
3csndium	49 1	70-4706	772610S	700S-46	7620171	0.15	cpw
3csndium	49 2	174042	177066	177SS2	177-70	S.69	cpw
3ePenium	-2 1	979	420	422	462	17.00	cpw
3ePenium	00 2	1S	10	17	17	29.S1	cpw
3ePenium	0- 2	61	96	52	0S	20.55	cpw
3iPcon	2- 1	645621	054140	-79S61	0956S5	12.-7	cpw
3iPer	1S0 1	11S-	1209	11SS	1161	-.9S	cpw
3iPer	1S5 1	1109	1S9-	552	1S09	-.67	cpw
3odium	27 2	594-0729	5647-SSS	540117S4	59949947	S.51	cpw
3trontium	-6 1	11567	-9-0	1S167	1S27-	16.9S	cpw
3trontium	-- 1	-5917	99254	-2-06	09-54	27.51	cpw
3uPur	74 1	209611	201049	2010-S	207S49	S.-1	cpw
Terbium	195 1	--22442	0972SS5	-6S7-04	-715442	-.7S	cpw
Terbium	195 2	7022214	700416-	7-S265S	7066790	1.S-	cpw
ThsPium	2S7 1	1652	199S	16SS	1614	4.49	cpw
ThsPium	2S9 1	44-9	7995	4791	4172	12.11	cpw
Tin	11- 1	796S	7S10	74S1	7726	-.7-	cpw
Titsnium	40 1	2160	1229	27SS	1-5-	7S.-5	cpw
Ursnium	27- 1	4700	74S1	4495	4S05	14.44	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpRe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CRent:3smpRe:ID:J	3S-	DiRtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiRe:Nsme:J	S11CAL3.d

8srsmeter	Msww	C831	C832	C837	C83Mesn	C83R3D	Unitw
Vsnsdium	91 2	7-0	770	4SS	704	-.52	cpw
Ytterbium	102 1	129	229	110	196	7-.06	cpw
Ytterbium	102 2	61	61	0-	60	14.44	cpw
Ytterbium	106 1	1777	1209	1960	1752	11.S5	cpw
Ytterbium	106 2	56S4	5-47	5957	56-S	1.46	cpw
Yttrium	-5 1	1S526S72	547-012	1S-0474S	1S417S2-	-.11	cpw
Yttrium	-5 2	11527S0	12S7-71	12S1S66	1155S6-	S.9S	cpw
Zinc	66 2	2-00	2000	2-7S	2-2-	1.00	cpw
Zirconium	5S 1	9S1S	4774	9026	9S27	17.-6	cpw
Zirconium	51 1	12SS	11SS	12SS	1160	4.59	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacqlatOoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNabl r las	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9t T	RFqP
dNer qFqer	20J2	214yy	2Sm y	2Syy4	21110	1U6S	O&P
dFiq .Fh	121J1	ymmy4m	1SSmy1S	yy64m1	yym11:	1US1	O&P
dDPlFqO	0 J2	2m24	2m4mm	2m4S:	2m 0y	SU44	O&P
BlDqer	1: J1	1SmS24	1Sy:S1	111140	1Sy4y1	1U4:	O&P
BlDqer	1:0J1	1yS00y	1yS1m2	1my:4y	1yS1S:	SUm	O&P
BlDmNqer	yJ1	1:6S62	1:61S2	1:m6:6	1:6y::	1USm	O&P
BqPr eiE	2SyJ1	6:2:S::	64y6S62	64664 2	642m 16	1U44	O&P
BqPr eiE	2SyJ2	:12mS0y	:1:0:m	:1m 4 y	:1 S:S0	SUym	O&P
BDr qFl	m1J1	4110	:y y	4S10	4S:1	1Uyy	O&P
-lnr qer	1SmJ1	mm 2	mm2m	m011	m0yS	SU0m	O&P
-lnr qer	1S6J1	1 :y2	1 0:4	14mSS	1 :Sy	:USy	O&P
-lnr qer	111J1	124y04	12y022	120 1S	1204S2	1Um0	O&P
-lNqer	4:J1	2m mS	2y:12	2m Sm	2mmSS	1U	O&P
-lNqer	44J1	4my4y4	4y6:11	SS:1S	4y :02	1U1S	O&P
-lDp.F	12J1	26:S002	26 m1 2	2022y m	260S620	1U00	O&P
-lDp.F	12J2	:4:66	::464	:4 2	:411m	1U6m	O&P
-ENDqFl	: J1	1S2Sy2	ymm 0	1SS041	1SS 0	1U6:	O&P
-ENDqFl	: J2	0 m	0SS	660	0Sm	6U	O&P
-EDr qer	2J2	1 1:my	1 1SS1	1 SyS4	1 1Sym	SU10	O&P
-.plN	yJ2	20y2S1	20:624	206:1m	206:m1	1US1	O&P
-.&&lD	6:J2	21my S	2104y2	212 m2	216:42	1U4	O&P
ThP&DPqer	1 6J1	S	m	m	6	m6U6S	O&P
ThP&DPqer	1 6J2	:	0	S	:	1SSUS	O&P
GDpqer	164J1	42	1Sm	S	60	4U4y	O&P
GDpqer	164J2	2:	:0	20	2y	24US:	O&P
HIn.NqFqer	16SJ1	60	110	0	m6	:1U11	O&P
HIn.NqFqer	16SJ2	1:0	14S	1 0	144	0U42	O&P
K.NlqER	16 J1	m00 Sm	y1Sym 4	mm m S6	my144m2	1Uy	O&P
K.NlqER	16 J2	4S0 6:1	:y11y0:	4S00yS:	4S21m 6	2U0	O&P
3FnqER	11 J1	64 0S:6	60y:y06	66 mm	66:6622	2U6	O&P
3FnqER	11 J2	y6y606	y024 2	y0 60	y026S1	SU1	O&P
3DF	4J2	14Sy::	1:m61S	14S4 2	1:yyym	SUm	O&P
3DF	6J2	262 6:2	2 m 222	26226:y	2611164	SUm6	O&P
3DF	0J2	6:1S6	61my	6:22:	62041	1U10	O&P
gDh&i.F	m J1	2 2	2:0	216	2:	0U04	O&P
LIIn	2S6J1	1SS006	1S2:2 S	1S24:04	1S1m46:	SUy1	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiqFaM O.Das	1
TlilAacqlatOoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNabl r las	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
LlIn	2S0J1	m621 :	m ::4	m62:S6	m yy:1	SU46	O&P
LlIn	2SmJ1	424my62	4246mS1	42221 S	42:y:S	SU	O&P
LqEqer	6J1	2424066	2 1012:	241m224	24 ::01	2U2	O&P
5lkFlPqer	24J2	1: 0ym	1:4 6m	1: yS	1: 424	SU	O&P
5lFklFlPl	J2	0 S6y	0 :60	0 44m	0 2y	SU20	O&P
5.NlpnlFer	y4J1	4::	:0	4 m	422	1SU1:	O&P
5.NlpnlFer	y J1	:10	4SS	2m	:::	1mUS:	O&P
5.NlpnlFer	y6J1	40	6::	60	y4	10U0	O&P
5.NlpnlFer	y0J1	10	210	10	1my	12U0:	O&P
5.NlpnlFer	ymJ1	60	6SS	6Sy	y2	:U0:	O&P
bl.nhr qer	1 SJ1	1:	0	S	0	yyUym	O&P
bl.nhr qer	1 SJ2	S	S	S	S	SUSS	O&P
bqOvlN	6SJ2	m102:	0y66	mSSy4	mS4y4	1U	O&P
uE.P&E.DeP	:1J2	260	22	210	2:6	11U	O&P
u.ilPPqer	:yJ2	1 2 y:	1 S46:	14yy:2	1 Syy6	SUy:	O&P
9E.nqer	1S:J1	64 1	6006m 0	6 mm 44	66S m6	2U40	O&P
9E.nqer	1S:J2	:16m62S	:1m2S62	:1m20ym	:100m20	SU2	O&P
t O Fnqer	4 J1	41:414y	4:0m 21	42my1:4	426026m	2UyS	O&P
t O Fnqer	4 J2	1401	146226	1404yy	146y6S	SU4	O&P
t lNlFqer	m2J1	2SSmm	2S m	2S6	2S4:4	1U4m	O&P
t lNlFqer	00J2	610	64S	610	624	2U16	O&P
t lNlFqer	0mJ2	212y	2141	214m	214S	SU4	O&P
t qNlD F	2mJ1	1y2S0:	1mm2ym	1m66y6	1mySS22	1U46	O&P
t qNlD	1S0J1	:26m16	:::4SS	::S6y0	::S:S4	1USS	O&P
t qNlD	1SyJ1	:S0S01	:1602y	:1:4 y	:1242S	1U0	O&P
t .nqer	2:J2	4:40m	420y6S	4:S12S	4:Sy	SUm1	O&P
t iD Fiqer	m6J1	11Sm	060	m42	yS6	1yUm	O&P
t iD Fiqer	mmJ1	4yS1	4106	4110	4:ym	yUy:	O&P
t eNvD	:4J1	:S S2m	:S 622	:S01y2	:S y40	SU0	O&P
cl Dpqer	1 yJ1	mm446 4	y6: Sm	y41yyS0	y2yymm2	4Uy	O&P
cl Dpqer	1 yJ2	4S:0SS2	4S102S2	:y:6m02	:yy0S2	1U:	O&P
cEl NqEr	2S:J1	12 0m1y	120S::2	12:1y1	12 :: 6	1U6	O&P
cEl NqEr	2S J1	:Sy6m62	:12yy:1	:141 41	:12200m	SU04	O&P
cqF	11mJ1	1 m	1:::	1210	1:0m	1:U6S	O&P
cqlFqer	40J1	22	210	2SS	214	Uy	O&P
RDFqer	2:mJ1	242	1 m	142	1m1	2yU60	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber plDas	LB1264S0	C&lDi.Das	wlP8lN
LIpatlr &NlaBTasa	3-7S0	3FPlDer Fliablr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM Cl.Das	1
TlilAacqlatCobedDnas	2S2:JS0J12a1:s14sS:	TlilMqNlablr las	S1 3-7Um

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
7lFlnqer	1J2	111my6	111y26	11: Sy	112444	SUm2	C&P
YiilDqer	102J1	S	60	m	m	14U2y	C&P
YiilDqer	102J2	2m	10	:y	2m	:yUy	C&P
YiilDqer	106J1	1110	110	122	1102	4U6:	C&P
YiilDqer	106J2	yy6	11S20	1S21	1S4S2	U4	C&P
YiiDqer	myJ1	116ym01:	11yS4646	122:mS06	11y4014	2U2m	C&P
YiiDqer	myJ2	1:S04y	12m14Sm	12y662y	12y 100	1US1	C&P
ZqFO	66J2	20 4	226:	10y1	226y	SUy2	C&P
ZqDO Fqer	ySJ1	62	642	42	6S:	mUmy	C&P
ZqDO Fqer	y1J1	2 S	2 m	2 S	2 :	1UyS	C&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LIpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
dNer qFqer	20:2	11S	1S1	s2	1S1	m104	O&P
dFiq .Fh	121:1	627	7s2	m7S	6ms	2SM4S	O&P
dDPlFqO	07:2	12	1S	7	s	4SN36	O&P
BlDqer	1 7:1	7S	m	07	6s	24Nsm	O&P
BlDqer	1 0:1	s2	m	127	1SS	22N37	O&P
BlDnNqer	s:1	66	6s	74	6	12N0m	O&P
BqPr eiE	2Ss:1	670s072	64s6S62	64S01s	64s4 7	1M	O&P
BqPr eiE	2Ss:2	S0m4S6	Ss11SS	141742	1S 6m	1N3m	O&P
BDr qFl	m1:1	s10	s7s	4S 4	s0S	1M4s	O&P
-lnr qer	1Sm1	10	m	2s	2m	0N04	O&P
-lnr qer	1S6:1	s26	71	7s2	62	0N40	O&P
-lnr qer	111:1	41m	46	ms	m4	sM42	O&P
-lNqer	4 :1	2S0	242	2S4	21m	sM11	O&P
-lNqer	44:1	2177	1m12	212S	2S2s	SM7s	O&P
-lDp.F	12:1	22Ss 6S	217m101	216ss	210s174	1N2	O&P
-lDp.F	12:2	202s	26sSS	20 7s	201m4	SN41	O&P
-ENDqFl	7:1	m61 s	mSm42	mSmSs	m27s6	N01	O&P
-ENDqFl	7:2	660	67m	6	67	2N06	O&P
-EDr qer	72:2	1S0	1S4S	1S6	1S7s	1N02	O&P
-.plN	7s:2	s	70	1SS	m	2mN3S	O&P
-.&&lD	6 :2	67	6SS	610	62	4Mm	O&P
ThP&DPqer	176:1	m	m	S	6	m6N0S	O&P
ThP&DPqer	176:2	1S	0	S	6	s1N04	O&P
UDpqer	164:1	7S	42	42	44	1SM12	O&P
UDpqer	164:2	0		20	2	17MS	O&P
Gln.NqFqer	16S:1	07	s2	s2	m6	11M1m	O&P
Gln.NqFqer	16S:2	1S0	12S	14S	122	1 N0	O&P
H.NqNqer	167:1	s1s2 72	sSm21S0	ms462 2	sS0 764	1M6	O&P
H.NqNqer	167:2	smmsS0	sms4S6	sm1m6s	sm6020	SM11	O&P
3FnqNqer	117:1	6600 m	66 S4	6741226	6610210	1N37	O&P
3FnqNqer	117:2	s6 20s	s777S0	s4m2 s	s77607	SN0s	O&P
3DF	74:2	461	42m	460	472	4N06	O&P
3DF	76:2	60	12	112	2SS	4M71	O&P
3DF	70:2	m	s4	1SS	s	sM16	O&P
KDh&i.F	m :1	17	24s	26s	200	12N27	O&P
LIln	2S6:1	1S	s10	ss7	sm2	6N37	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LlpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut1	-ut2	-ut	-ut9llF	-utytT	5FqP
LlIn	2S0:1	m2m	07S	0ms	0ms	4Ns4	O&P
LlIn	2Sm1	41SS	4S2	7s7	sS6	6Ns10	O&P
LqEqer	6:1	24 6472	244S420	2 s21 S	242 SS	1M11	O&P
9lgFlPqer	24:2	s2	1Sm	110	1S6	12N36	O&P
9lFglFlPl	77:2	4S	7S	70	4s	10M16	O&P
9.NpnlFer	s4:1	1s2	17m	110	176	24M16	O&P
9.NpnlFer	s7:1	m	m		42	s1N06	O&P
9.NpnlFer	s6:1	1	1	127	1 1	N0s	O&P
9.NpnlFer	s0:1	42	m	42	1	62Nds	O&P
9.NpnlFer	sm1	07	60	1SS	m1	21N7	O&P
bl.nhrqer	17S:1	2S	2S	0	16	4sM10	O&P
bl.nhrqer	17S:2	S	S	S	S	SN3S	O&P
bqOklN	6S:2	70	6S	4S	72	2SM72	O&P
uE.P&E.DeP	1:2	210	10	210	27S	2 N3s	O&P
u.ilPPqer	s:2	1S601	1S221	1S4S4	1S4 2	2M10	O&P
yE.nqer	1S :1	6s740S0	6771m74	6647747	6010 6m	M14	O&P
yE.nqer	1S :2	17202m	SmmSsS	S711s4	Ss0 0	1N06	O&P
tOlFnqer	47:1	4 mSmSs	4242S62	4 120m2	4 11mm4	1N61	O&P
tOlFnqer	47:2	147 1	14 S67	14 40s	14 s7m	SM14	O&P
tlNlFqer	m2:1	:4s	1s	:1m	:16	:21 M7	O&P
tlNlFqer	00:2		S	S	1	10 N21	O&P
tlNlFqer	0m2	16	22	2S	1s	17MS	O&P
tqNlD F	2m1	100s1s	104 6s	10SsS	104 s0	2N31	O&P
tqNlD	1S0:1	2	7S	10	SS	2SN3	O&P
tqNlD	1Ss:1	2m	160	SS	27S	2sN36	O&P
t.nqer	2 :2	24s22	2 s47	24201	24 0s	2N34	O&P
tiDFiqer	m6:1	727	707	4	711	14N36	O&P
tiDFiqer	mm1	14	m7S	m7S	1S47	2N27	O&P
teNeD	4:1	S4Ss	S20 0	S70 6	S41ms	SM4s	O&P
clDqer	17s:1	s147146	s m627	s122426	s210s42	1N7s	O&P
clDqer	17s:2	s 66sS	s16062	m00 Ss	s1S27	SN70	O&P
cElNqer	2S :1	642	460	742	77S	17Nd6	O&P
cElNqer	2S7:1	1 60	14SS	12s2	1 7	4M1S	O&P
cqF	11m1	1SSS	1S27	11	1S7	6N0	O&P
cqlFqer	40:1	1SS	17S	107	142	26Nd6	O&P
5DFqer	2 m1	07	10	m		1SmN0	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJber plDa	LB1264S0	C&lDi.Da	wlP8lN
LlpJtlr &NJBTJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NqFiJtlr &NJBTJaJ	3-BS07	TqNiq FJRlO.Da	1
TlilJAJcqlJdObedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-ut ytT	5FqP
VlFlnqer	71:2	7S	1S	1	24	sSMS	O&P
YiilDqer	102:1	s2	7m	07	07	22M2	O&P
YiilDqer	102:2	2m	44	11	2m	6SM1	O&P
YiilDqer	106:1	12	1707	12Sm	1 s	17MS	O&P
YiilDqer	106:2	sm4	1S 01	1SSSs	1SS04	2M3m	O&P
YiiDqer	ms:1	12S70402	11s061Ss	11s4661s	11ss 4SS	SM4m	O&P
YiiDqer	ms:2	12mssS6	1264S 6	1276m42	120S261	1M0	O&P
ZqFO	66:2	14S	14	1s	17s	1mMS	O&P
ZqDO Fqer	sS:1	4s2	7m	4s2	722	1SM4	O&P
ZqDO Fqer	s1:1	7S	7m	m	64	20M6	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr ioqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
ur p q qr p	20a2	J09S: 4:	Jbb: 22:	J922S62	Jb6: 944	1F0:	d&8
. iqp C. y	121a1	69b:	6994	646S	6b1J	4F49	d&8
t8D. qpl	0: a2	0:	bJ	06	0b	: F 9	d&8
BPtqr p	1J: a1	16SS	1: : S	1642	1: 90	2Fb0	d&8
BPtqr p	1J0a1	26b4	26S9	2042	260b	2F S	d&8
BDtyuqr p	9a1	419	44:	Jb9	410	6F04	d&8
Bq8p r ih	2S9a1	: 9: 14J2	: 9: S9S4	: 990120	: 9664b0	SF44	d&8
Bq8p r ih	2S9a2	29SJ9bS	296JS16	2b4: J: 9	29S411b	2FSJ	d&8
BtCp q D	b1a1	J: 26	J: b4	J910	J606	: F0:	d&8
- Pop qr p	1Sba1	1646	1: SS	1: Jb	1: 61	4Fb:	d&8
- Pop qr p	1S6a1	J: : 1	J692	JJ2:	J: 2J	: F2:	d&8
- Pop qr p	111a1	1SS0	122b	994	1S06	12F2S	d&8
- Pudqr p	4Ja1	1J06b06	141: SJ2	14J12: 1	14S002S	1F9b	d&8
- Pudqr p	44a1	224b6291	22611044	2204bSb:	2261: J0J	SF b	d&8
- Ptl C.	12a1	11JS2: bS	1126bS04	1122JJ00	11264600	SFJ:	d&8
- Ptl C.	12a2	14Jb16	1421b4	14S19b	142S66	1F2b	d&8
- huCtq D	J: a1	6J: 1262	00SJ9: 6	9S99: 10	001b24:	10FbS	d&8
- huCtq D	J: a2	bb: 62	949: J	99140	94221	: F66	d&8
- htCp qr p	: 2a2	2919J	2b6J:	2902b	291b:	1Fb0	d&8
- Cl Pui	: 9a2	J104	J19S	J110	J16S	1F22	d&8
- C&&Dt	6Ja2	1: : 49	1: bS2	1: J: 2	1: : 60	1F4:	d&8
Ty8&tC8qr p	1: 6a1	S	b	60	2:	14: FJ1	d&8
Ty8&tC8qr p	1: 6a2	1J	J	1J	1S	: 0F0:	d&8
Etl qr p	164a1	: S	1Sb	1SS	b6	J6F64	d&8
Etl qr p	164a2	40	4S	J0	41	12FJ9	d&8
GPoOuqqr p	16Sa1	60	bJ	142	90	4SF S	d&8
GPoOuqqr p	16Sa2	110	1JS	1: S	1J2	12F69	d&8
HOup qr p	16: a1	b6S0194	b0: 04b:	bb6: 02J	b04J460	1F4b	d&8
HOup qr p	16: a2	JbJ101J	Jb: 9: : S	J9b2620	Jb91290	2FS6	d&8
3 oqr p	11: a1	6140J: J	614: 4S1	610J299	61: : J: 1	SF2:	d&8
3 oqr p	11: a2	b9J916	b9J1b6	9S21: b	b9642S	SF 6	d&8
3tC.	: 4a2	6: 66bb:	64S0bb1	6461: S0	640b0: b	1F2:	d&8
3tC.	: 6a2	110290: 42	11b246J14	110J9b2J6	110640J64	SF44	d&8
3tC.	: 0a2	JS: S4Jb	JSb: 4J:	JS0: Jb9	JS0S421	SF 9	d&8
Kty&iC.	bJa1	262	2J1	216	2J0	9F90	d&8
LDPo	2S6a1	210bS	2JS21	24496	2JS99	: Fb9	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqr iqC. sUPdiCtsw	1
TPiDsAsc qp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	109: 0	1bJbS	1bJbS	1b2J9	1FJ4	d&8
LDPo	2Sba1	b401:	b009:	9S: J6	b06b2	JFJ2	d&8
Lqihqr p	6a1	2JS4: bJ	2JS469b	2204691	22946: 0	SF0:	d&8
RPg. D8qr p	24a2	1S446: Sb	1S: 49692	1S: 10bJ0	1S: S4609	SF: S	d&8
RP. gP. D8D	: : a2	: 494	: 6J1	: 69:	: 6S0	1Fb2	d&8
RQyl oD. r p	94a1	20SS: 44	2bS: 6S4	2b229: 2	2006J60	2FJ9	d&8
RQyl oD. r p	9: a1	4b2S1SS	40: 6b6:	496J661	4b46b0:	2F19	d&8
RQyl oD. r p	96a1	: 10S09:	: 14b92:	: 296SS0	: 2S: 24J	1F: 2	d&8
RQyl oD. r p	90a1	296bJ94	29941J1	JSJ4SS1	299bb42	1F1S	d&8
RQyl oD. r p	9ba1	0006b09	0bS: 9S0	094bbbb	0b4Jb91	1F10	d&8
e DCoyp qr p	1: Sa1	40	: J	2S	4S	44FS9	d&8
e DCoyp qr p	1: Sa2	1S	0	10	11	4: Fb2	d&8
e qdkDu	6Sa2	41J4	4SS0	4220	412J	2F6b	d&8
mhC8&hCtr 8	J1a2	1960J2	1900Sb	196900	1901J9	SF26	d&8
mCiP88qr p	J9a2	601JJ6J	66Sb4: 2	60: b00J	669J: 29	1F1:	d&8
5 hCoqr p	1SJa1	6S20: b2	6S6S: 64	61: JJ6:	6SbS: SJ	1FS0	d&8
5 hCoqr p	1SJa2	2b6S449	29S9911	2bb4J4S	2bb49SS	SFb6	d&8
7 dP. oqr p	4: a1	J9: b406	4S24bJ2	4SS094b	J990Sb6	SFb6	d&8
7 dP. oqr p	4: a2	1J: 1bS	1J4422	1J: 6J4	1J: S0b	SF4:	d&8
7 DuD. qr p	b2a1	11	a	9	:	10: FS0	d&8
7 DuD. qr p	00a2	S	S	S	S	SFSS	d&8
7 DuD. qr p	0ba2	1S	b	1:	11	J2F0b	d&8
7 qqqlC.	2ba1	2bS: 2:	2069S0	200466	20b299	SF0S	d&8
7 qqvDt	1S0a1	2SS	210	260	22b	1: F2J	d&8
7 qqvDt	1S9a1	142	260	160	192	J4F: 1	d&8
7 Coqr p	2Ja2	19b06929	19662S64	1906b4bS	190691: b	SF: 4	d&8
7 itC. iqr p	b6a1	46: 9:	46J44	40941	4696S	1FbJ	d&8
7 itC. iqr p	bba1	4141S6	411S: 1	41Sb: 6	412SS4	SF44	d&8
7 r ufir t	J4a1	222: 1: 6	2249409	22622: J	224: 629	SFb4	d&8
cDtl qr p	1: 9a1	b494299	b9b0992	916J0: S	bbb2S14	JF91	d&8
cDtl qr p	1: 9a2	JbJ41: 1	Jb00126	Jb20: 20	Jb4626b	SF0S	d&8
chPuqr p	2SJa1	14Sb	142:	11: b	1JJ1	11F2J	d&8
chPuqr p	2S: a1	26: 9	J6S9	2b92	JS: J	16F22	d&8
cq	11ba1	24S9	2S60	2b92	24: 6	16Fbb	d&8
cqiP. qr p	40a1	1J0JS22	14J0J44	14J1SSb	141J092	2F: 1	d&8
MtP. qr p	2Jba1	62:	4bJ	: : S	: : J	12Fb2	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2Sv24	TPiPUqpDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	20J	10J	2S0	21b	2JFJb	d&8
YiiDtl qrp	102a1	2:	42	60	44	40F19	d&8
YiiDtl qrp	102a2	22	22	22	22	SFSS	d&8
YiiDtl qrp	106a1	1S92	1210	1242	11bJ	6F09	d&8
YiiDtl qrp	106a2	9J06	9626	949J	949b	1FJ2	d&8
Yiitqrp	b9a1	11Sb229:	1141: 199	11J9J0J6	11290S00	1F6:	d&8
Yiitqrp	b9a2	119bJJS	1212JS6	12S1S64	12SJ9SS	SF62	d&8
Zqd	66a2	2000	2b04	2660	200J	JF0J	d&8
ZqdC. qrp	9Sa1	: : b	40:	0Sb	: b1	2SFJ0	d&8
ZqdC. qrp	91a1	1: b	1JJ	1: b	1: S	9F62	d&8

Reviewed By:Bin
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Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqqDse Pp Dsw	S1b3 7BFo

mPtPp DiDt	R P88	- m7 1	- m7 2	- m7 J	- m7 R DP.	- m7 5 7 T	M. qi8
ur p q qr p	20a2	Jbbb426	Jb696Jb	Jb0: 2S6	Jb000: 0	SF2:	d&8
. iqp C. y	121a1	9b4bS	1S20: 2	1S41bb	1S1bS0	2F92	d&8
t8D. qpl	0: a2	20S0	200:	204S	204S	1F24	d&8
BPtqr p	1J: a1	211b4	2JS12	22061	22J19	4F44	d&8
BPtqr p	1J0a1	J91bJ	412: :	J9JSb	J991:	2F91	d&8
BDtyuqr p	9a1	24b1b	2: J14	2: 624	2: 2: 2	1F61	d&8
Bq8p r ih	2S9a1	: 694J61	624S: 04	611: J: 2	6S1606J	4F06	d&8
Bq8p r ih	2S9a2	2914112	JSS6bJ4	2946b02	29: : 9J9	1F. 9	d&8
BtCp q D	b1a1	J: 92	J942	J092	J006	4F6:	d&8
- Pop qr p	1Sba1	2942	J110	JS92	JS: S	JF1S	d&8
- Pop qr p	1S6a1	: J1b	: 6: 1	: 64J	: : J0	JF4J	d&8
- Pop qr p	111a1	2J4Sb	24216	2420b	2J960	2FSJ	d&8
- Pudqr p	4Ja1	14201b4	14: : 2b9	1444J90	144229S	SF9b	d&8
- Pudqr p	44a1	22: 6b2: 2	2J1b0024	2J641bJ2	2J1J26SJ	2FJJ	d&8
- Ptl C.	12a1	111bJJbS	11622949	1166J0: b	1149SS29	2FJ2	d&8
- Ptl C.	12a2	14: 40:	14: 0b6	14: 1Jb	14: 466	SF22	d&8
- huCtq D	J: a1	1SJJ411J	12446S2J	1J94411S	1224141:	14Fb2	d&8
- huCtq D	J: a2	11b2S6	12: J91	129: J:	124J00	4F61	d&8
- htCp qr p	: 2a2	: 02S1	: 01bS	: 0bS6	: 0J96	SF62	d&8
- Cl Pui	: 9a2	: J296	: 4S22	: 29Sb	: J4S9	1FS6	d&8
- C&&Dt	6Ja2	: : 6J9	: : 404	: : 264	: : 4: 9	SFJ4	d&8
Ty8&tC8qr p	1: 6a1	2:	: S	b	2b	0: F. 1	d&8
Ty8&tC8qr p	1: 6a2	1J	10	2J	1b	2bF64	d&8
Etl qr p	164a1	92	2:	92	69	: : F4J	d&8
Etl qr p	164a2	J0	20	4J	J6	2JF. b	d&8
GPoCuqqr p	16Sa1	12:	110	bJ	1Sb	2SFJ:	d&8
GPoCuqqr p	16Sa2	12J	1S0	1S0	112	bF. b	d&8
HCup qr p	16: a1	b411122	91: : 2: 4	b66024:	b044: 4S	4FJ2	d&8
HCup qr p	16: a2	J964266	J9906S0	4SSJS0:	J9bbJ16	SF. J	d&8
3 oqr p	11: a1	: bS: 4J4	64: 94J4	61S2S: 0	6122JSb	: FJ:	d&8
3 oqr p	11: a2	9S6b12	9S9104	91: J9J	91S46S	SF49	d&8
3tC.	: 4a2	66S: 120	6619S: 4	60: : 66J	66: 994b	1F2:	d&8
3tC.	: 6a2	12S4440J9	1210S19: S	12J4101: b	121b: 4616	1F22	d&8
3tC.	: 0a2	JS662: 4	JSb: 2b9	J1SJ: 1S	JSb: S1b	SF6S	d&8
Kty&iC.	bJa1	222	2: :	260	24b	9FJ6	d&8
LDPo	2S6a1	12: JJS	1200bS	126949	1266b6	SF9b	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqpDse Pp Dsw	S1b3 7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	1S: JJ1	1Sb014	1SbS2S	1S0J: :	1F66	d&8
LDPo	2Sba1	4b400:	: S1S06	: SJ640	496499	2FS6	d&8
Lqihqrp	6a1	221b121	2J1J49J	2249641	226S41b	2F1:	d&8
RPg. D8qrp	24a2	1S: bJ0S6	1S04J46S	1Sb2Sb: 1	1S016SS6	1F1J	d&8
RP. gP. D8D	: : a2	199S1	190bS	19J0J	196b:	1F4S	d&8
RQyl oD. r p	94a1	2066S90	292: b40	2bJb214	2b4JJb6	2Fb1	d&8
RQyl oD. r p	9: a1	4bS9b21	499SbS0	4b: bS: 6	4bb622b	1F92	d&8
RQyl oD. r p	96a1	: 211166	: JJ111J	: Jb99b:	: J1S0: :	1F02	d&8
RQyl oD. r p	90a1	2969: 62	JS0: 1S4	JS0b: 1J	JS41S6S	2FS4	d&8
RQyl oD. r p	9ba1	0bS2J99	0b: 22: 2	099: : 9S	0bbJ41J	1F20	d&8
e DCoyp qrp	1: Sa1	20	4S	2S	29	J: F2:	d&8
e DCoyp qrp	1: Sa2	J	1J	J	0	b6F6:	d&8
e qdkDu	6Sa2	10414	10061	10b21	10666	1F24	d&8
mhC8&hCtr 8	J1a2	2SS429	2SS491	19060S	199: JS	SFb1	d&8
mCiP88qrp	J9a2	0S1J2S9	66: bJ1b	696J1b0	6b0b2Jb	2F09	d&8
5 hCoqrp	1SJa1	: b24691	6224121	6S02J22	6S4SJ0b	JFJ4	d&8
5 hCoqrp	1SJa2	2b6J6b0	29: 1S9:	2b: 026J	2b9S6b2	1Fb1	d&8
7 dP. oqrp	4: a1	Jb9b4: S	410: 242	41449: :	4S02bb2	JF0J	d&8
7 dP. oqrp	4: a2	1J69JJ	1JbS91	1J9bJJ	1Jb2b6	1FS6	d&8
7 DuD. qrp	b2a1	10b1	1692	1604	1016	JFJ:	d&8
7 DuD. qrp	00a2	40	6J	6S	: 0	1: F. 6	d&8
7 DuD. qrp	0ba2	21S	19:	2S2	2S2	JF01	d&8
7 qqqC.	2ba1	2b: JS0	2b266:	2bb6b1	2b: : : 1	1FS6	d&8
7 qqvDt	1S0a1	12S266	122: 1b	12SJ0J	121S: 2	1FS:	d&8
7 qqvDt	1S9a1	11JSJ1	116666	1169: 4	11: : : S	1Fb9	d&8
7 Coqrp	2Ja2	19060612	19bJ6642	2S1: : bS6	1992SS2S	1FS4	d&8
7 itC. iqrp	b6a1	4b619	4b011	490: 6	49S2b	1F29	d&8
7 itC. iqrp	bba1	4S9b22	42SS: 1	426291	41b021	1F99	d&8
7 r ufir t	J4a1	2JS6Jbb	22b06b0	22044S4	22b949J	SF0S	d&8
cDtl qrp	1: 9a1	b: J44b1	9J6S2: 1	9S09S10	b9912: S	4F60	d&8
cDtl qrp	1: 9a2	J0: JS: 4	Jb90: 6:	Jb99J01	Jb49990	2F1b	d&8
chPuqrp	2SJa1	110: S4	121S01	1211bb	119921	1F0:	d&8
chPuqrp	2S: a1	209100	2b: 4: 6	2bb1b2	2b4202	1F62	d&8
cq	11ba1	2J10	26SS	240:	2464	: F06	d&8
cqiP. qrp	40a1	14JS24J	14b16S4	1: 1S0bb	1404211	2F00	d&8
MtP. qrp	2Jba1	: bJ	: : S	6Sb	: b1	: FS4	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2JvtJ	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	21206	2S969	21b1J	21J: J	2FSS	d&8
YiiDtl qrp	102a1	: b	: S	JJ	40	26F96	d&8
YiiDtl qrp	102a2	2b	10	2b	24	26F64	d&8
YiiDtl qrp	106a1	1110	1192	1110	1142	JF09	d&8
YiiDtl qrp	106a2	9: 1:	969b	1S21:	9bS9	JF0S	d&8
Yiitqrp	b9a1	111116S4	11: bb: S2	11J0: : 4:	11J: b: : S	2F1S	d&8
Yiitqrp	b9a2	12S0: 2:	12: 4404	12Jb6b1	12JJ: 6S	1F94	d&8
Zqd	66a2	0019	0699	066:	0694	SFJ:	d&8
ZqdC. qrp	9Sa1	: 92	660	0JJ	664	1SF6b	d&8
ZqdC. qrp	91a1	1: S	92	1SS	114	20F0S	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S27	T&piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwR&p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
d8be qFdpe	20 2	2S620U2	2S2762U	2S741u6	2S4S2S2	SM0U	Ol l
dFiqe . Fh	121 1	2a441Su	2a6U20a	2a4a777	2aa2USa	SM46	Ol l
dIl pFqO	0a 2	604aa	607a4	6auu6	66uUu	1M71	Ol l
Bwldpe	17a 1	2u40Sa7	2U26171	2u7U026	2u0SU0S	1M60	Ol l
Bwldpe	170 1	4uuuS2a	4UU1172	4U74S6u	4U70042	1M3a	Ol l
Bplh8&pe	U 1	61S442	6107a0	62SUUa	61626a	SM10	Ol l
Bdqe biE	2SU 1	a40a7Sa	aU22212	auU62a0	a064aU2	4M7a	Ol l
Bdqe biE	2SU 2	2u4S10U	2uSSS22	20074a1	2uS4aa1	1M2S	Ol l
Bl. e qFp	u1 1	41a1	42u4	41U2	42SU	1M62	Ol l
3 wne dpe	1Su 1	a1777	a2711	a210u	a1U41	1M32	Ol l
3 wne dpe	1S6 1	0720U	07Uu2	02uSU	077a0	SM1S	Ol l
3 wne dpe	111 1	61U741	67Sa2u	62U06u	626a46	1M3S	Ol l
3 w&Qdpe	47 1	70a10S0	701uuS2	702S61u	707S706	SM4S	Ol l
3 w&Qdpe	44 1	aU2UUSUU	6S1SS474	aU411a70	aU6S76US	SM07	Ol l
3 wlr . F	12 1	24uu121	2a647U6	2aUa1a2	2a4U227	2M16	Ol l
3 wlr . F	12 2	7aSu4	7a706	7a21u	7a226	SM42	Ol l
3 E8 lqFp	7a 1	7401aU4	7204161	7S0S0US	72021u2	6M12	Ol l
3 E8 lqFp	7a 2	2Sa72	1uu7u	10076	1US7a	0M4S	Ol l
3 El. e dpe	a2 2	01u024	01a426	017S14	01a021	SM4S	Ol l
3 . r w8	aU 2	126S72U	12uu116	12a6aSa	126u710	1M76	Ol l
3 . t t pl	67 2	11SSa20S	11S12uUu	1S6ua0ua	1SUS171u	1M01	Ol l
Thl t l. l dpe	1a6 1	610	6aS	a0a	614	6M12	Ol l
Thl t l. l dpe	1a6 2	2u0	70S	720	72u	12M02	Ol l
Glr dpe	164 1	1au	22a	110	160	72M0U	Ol l
Glr dpe	164 2	67	4S	60	a0	2aM04	Ol l
Hwn. 8qFdpe	16S 1	660	0SS	660	60u	2M14	Ol l
Hwn. 8qFdpe	16S 2	40S	4S7	4a0	447	0M06	Ol l
K. &e dpe	16a 1	0U0U77S	US0S772	US6077S	u0Sa664	0M27	Ol l
K. &e dpe	16a 2	7u06a67	7u0S70a	7U11600	7uu62Sa	SM40	Ol l
&Fndpe	11a 1	aa66001	61u4717	624u014	aUUUU77	6M2u	Ol l
&Fndpe	11a 2	u0uS1a	u6uaSU	u0aSaU	u07u61	SM46	Ol l
&. F	a4 2	u1u7SU4	u70u20a	u744uUU	u7S2SuU	1M26	Ol l
&. F	a6 2	1a1272071	1a1066SSU	1a1u4SUu0	1a1617242	SM22	Ol l
&. F	a0 2	70u4020	7U1077a	7u27u6U	7u41U00	1M00	Ol l
glht i. F	u7 1	2a6	2aU	261	2aU	SM0	Ol l
Lpwn	2S6 1	1217S7a6	1217a444	12Sa06u6	121S0u2U	SM76	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	T 8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
Lpwn	2S0 1	1S66UuUU	1S640727	1S76u261	1Sa61u2u	1M4U	Ol l
Lpwn	2Su 1	4u4U2a70	4U1ua0S4	4u6uau10	4u0uuS1U	SM07	Ol l
LqiEdpe	6 1	2112USS	2227U12	222400u	21u01U6	2M04	Ol l
9 wkFpl dpe	24 2	2u2aSU60	20u71aa7	2u71a41U	2u172646	SM07	Ol l
9 wFkwFpl p	aa 2	7u26S77	7041a07	7uSSS44	70uU216	1M14	Ol l
9 . 8hr npFbe	U4 1	U64u26S	U611Uaa	UauaUSU	U61a70a	SM77	Ol l
9 . 8hr npFbe	Ua 1	170u126U	14116SUa	17Uu4S70	17U6S460	1M21	Ol l
9 . 8hr npFbe	U6 1	14U44422	1a76aS62	1aa6S6U6	1a2USS6S	2M36	Ol l
9 . 8hr npFbe	U0 1	u674SU1	u66aU20	uu12716	u0S4111	1M3U	Ol l
9 . 8hr npFbe	Uu 1	22S2S046	22a0u067	22076021	2244a41S	1M6u	Ol l
mp. nhe dpe	1aS 1	2a7	277	277	24S	4M1	Ol l
mp. nhe dpe	1aS 2	4S	aS	70	42	16M47	Ol l
mqOvp8	6S 2	746S6S	74a0uu	74212u	7446aU	SM04	Ol l
NE. l t E. lbl	71 2	2S7a6	21S41	21S04	2Su24	1M1a	Ol l
N. iwl l dpe	7U 2	u0ua211	uUS2226	uU4Ua70	uu0uUU2	SM1a	Ol l
y E. ndpe	1S7 1	a47022a	6S622S0	6140a2U	auu272S	6M4U	Ol l
y E. ndpe	1S7 2	2006170	2001700	2001S20	2002u40	SM1S	Ol l
DOwFndpe	4a 1	7010uSU	42S774S	4SaU6Ua	7UU7614	6M2a	Ol l
DOwFndpe	4a 2	174722	176S01	176aSu	17a674	SM1a	Ol l
Dp8pFdpe	u2 1	4aUS1	40172	46uU2	46642	1M4S	Ol l
Dp8pFdpe	00 2	12uS	14aS	14SS	1700	6M7a	Ol l
Dp8pFdpe	0u 2	4u72	4664	4uu7	40U7	2M7U	Ol l
Dqq8O F	2u 1	20a0uaSa	204uuS01	20a6UU46	20a4aaSu	SM1u	Ol l
Dq8pl	1S0 1	72u0407	77uUu20	77a06aU	7744Uu6	1M46	Ol l
Dq8pl	1SU 1	71a7u1U	7146SUS	71Uu114	7166SSu	SM1U	Ol l
D. ndpe	27 2	4U600406	4U264477	4U7a016u	4U477S26	SM44	Ol l
Dil. Fidpe	u6 1	1uu7200U	1u6u20Ua	1u6467u6	1u02S6a7	SM47	Ol l
Dil. Fidpe	uu 1	161S2aS66	161674124	1614u01UU	1617u217S	SM2S	Ol l
Db8Vl	74 1	a416U4	a4U7aa	a4U242	a46064	SM1S	Ol l
cplr dpe	1aU 1	u774S62	U1S0u40	US72U24	uu24U4a	4M4	Ol l
cplr dpe	1aU 2	7u26U0U	76U7U2U	70u1721	706041S	1M7U	Ol l
cEw8Bpe	2S7 1	2uUU101	2U1U6U1	2uau742	2uU24S1	1M3u	Ol l
cEw8Bpe	2Sa 1	6u21664	6Ua441u	6UaS62a	6USuUS2	1M3U	Ol l
cqF	11u 1	2S0S4S1	211S164	211a07S	2SUu06a	1M1u	Ol l
cqwFdpe	40 1	76a6S46	70S7726	704aU61	70S1000	1M22	Ol l
5 lwFdpe	27u 1	1SS61007	1S4SU1u2	1S44u616	1S7S6a24	2M30	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	a1 2	aau667	aa77a4	aaU0u7	aa0266	SM62	Qt l
Yiiplr dpe	102 1	2SS	1U2	160	1u6	UM72	Qt l
Yiiplr dpe	102 2	0u	1S6	U4	U7	1aM1S	Qt l
Yiiplr dpe	106 1	176u7	14S41	14S2a	17U16	1M4a	Qt l
Yiiplr dpe	106 2	146u6	144U2	14u14	14664	1M11	Qt l
Yiildpe	uU 1	1S602u64	1174u211	110a6212	112aUSUa	4M6	Qt l
Yiildpe	uU 2	12112Sa	12SS27a	12S2ua1	12S4064	SM4u	Qt l
ZqFO	66 2	12067S0	120612a	12600S7	120770u	SM7U	Qt l
ZqlQ Fdpe	US 1	44624Uu	4402777	4407616	446U4u2	SM14	Qt l
ZqlQ Fdpe	U1 1	U06427	UU4SuU	1SS2u70	UU1116	1M76	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlb

8 sps b r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
qPmb c omb	2072	4J1	2S2	1yJ	2N4	6- lyN	dDw
q. Tb C. h	12171	J2y	11SS	1242	1SNJ	14ly0	dDw
qpwr . cd	0y72	12	y	0	N	4ylS0	dDw
Bspomb	1- y71	2yS	2yN	- SS	26J	JlJ4	dDw
Bspomb	1- 071	- - -	- 0y	y2y	411	24ly-	dDw
Br phPmb	J71	1S6	12S	114	11-	6lSN	dDw
Bcwb mE	2SJ71	yJ1NN12	6y46- 11	6Ny4JS1	644SSSN	0l41	dDw
Bcwb mE	2SJ72	2JJN26S	- SN20N2	- S461- J	- S42- J-	1lJ J	dDw
BpCb c r	N171	- 610	4S- 4	- JyJ	- N0S	yl04	dDw
3 sob omb	1SN71	42	2y	2J	- 2	20l1y	dDw
3 sob omb	1S671	- S60	- 026	4S- 4	- 6SJ	1- l6J	dDw
3 sob omb	11171	41J	4- S	yyS	466	1ylyl2	dDw
3 sPlomb	4- 71	y44	y0y	yJ4	y01	4l42	dDw
3 sPlomb	4471	4y40y	44J42	4y2S0	4y2SN	SlyJ	dDw
3 speC.	1271	21- 0Jy0	21- J12N	21162Jy	21- 1120	Sl6S	dDw
3 speC.	1272	26104	26S1y	26SJJ	26SJ6	SlJ S	dDw
3 EPOpc r	- y71	1y06Sy1	1ySS- N0	14y0Jy4	1y11464	- lJ6	dDw
3 EPOpc r	- y72	JJ2J	Jy62	J1Jy	Jy62	- l0N4	dDw
3 EpCb omb	y272	111S	11SS	1S1-	1S04	4lJy	dDw
3 CesPT	yJ72	10S	yS	6-	J4	6Jl64	dDw
3 CDDr p	6- 72	244S	1y4S	1- 2-	106N	- - lyS	dDw
&hwDpOwomb	1y671	S	N	N	6	N6l6S	dDw
&hwDpOwomb	1y672	S	-	-	2	N6l6S	dDw
Fpeomb	16471	60	60	2y	y-	4ylyN	dDw
Fpeomb	16472	2-	4S	- S	- 1	26lJ0	dDw
GsoCPe omb	16S71	1SS	0y	N-	N6	14l0N	dDw
GsoCPe omb	16S72	1y-	14-	110	1- N	1- l06	dDw
HCPb omb	16y71	N- - N- y4	NJSSy0N	JN- N44J	JS2y0J4	Nl4S	dDw
HCPb omb	16y72	- J61S- -	4S06- 0S	4S46042	4S2NS4N	1l4J	dDw
t. oomb	11y71	6SN44SN	6616NyJ	01N4214	662N4J4	NlJ S	dDw
t. oomb	11y72	JyS- 0-	J0S- N1	J4N- 6y	Jy6- 0-	1l20	dDw
tpC.	y472	1211	6J4	0y6	NN0	- 1l0N-	dDw
tpC.	y672	1N- J0	660y	62JN	1S4y0	6yl0J	dDw
tpC.	y072	460	20N	- 11	- y2	2Nl6y	dDw
KphDTC.	N- 71	21J	24y	244	2- 6	6l2N	dDw
Lr so	2S671	20Jy	2460	21yS	2401	1- lSy	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlu

8 sp sb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Lr so	2S071	1JS6	21- 4	2SSS	2S1-	ylu6J	dDw
Lr so	2SN71	J- 6-	J1J6	J1y0	J2- J	1U1N	dDw
LdEomb	671	21JyNN0	2- 0- - 2J	2446NNy	2- - N0S1	ylJy2	dDw
5 sg. r womb	2472	- N1S	y0y	60y	16N0	1SJUS6	dDw
5 s. gs. r wr	yy72	- 1S	120	1y-	1J0	ySUJ6	dDw
5 OPheor . mb	J471	10SS	14SS	1- SN	140S	1- UJ4	dDw
5 OPheor . mb	Jy71	2- 10	21- 4	2106	22SJ	4UJy	dDw
5 OPheor . mb	J671	2060	2110	2- J2	242y	1- U46	dDw
5 OPheor . mb	J071	14N4	11- -	1- yS	1- 22	1- UJ6	dDw
5 OPheor . mb	JN71	- 460	- 1S1	416N	- y0J	1yU16	dDw
u r Cohb omb	1yS71	1-	0	1-	11	- 4U61	dDw
u r Cohb omb	1yS72	S	-	S	1	10- U21	dDw
u dkr P	6S72	0S	0-	0-	02	2U66	dDw
8 EOwDEOpmw	- 172	10y	22y	1J2	1J0	12UJ1	dDw
8 CTswwomb	- J72	144J1	1- - 0-	1- 4y0	1- 004	4Jy2	dDw
9 EOomb	1S- 71	612yN00	6yJS- 40	016- 142	66264yy	0UN4	dDw
9 EOomb	1S- 72	- 1S660N	- 2206y0	- 142- - 1	- 1yNNNJ	1UJ0	dDw
l ds. oomb	4y71	- N- J00S	4260yS0	4y2y422	421SJSS	NU22	dDw
l ds. oomb	4y72	1- JJ4N	14S0Sy	14S610	14S42-	SUJS	dDw
l r P. omb	N271	61	72S	yy	- 2	14SUJ-	dDw
l r P. omb	0072	S	S	S	S	SUSS	dDw
l r P. omb	0N72	11	J	1y	12	26U1J	dDw
l dPdC.	2N71	1NN62S	1N2140	1N21N1	1N4- 16	2USS2	dDw
l dPr p	1S071	210	2SS	2N-	2- -	1NUJ1	dDw
l dPr p	1SJ71	1N-	1J2	210	1J0	NU0J	dDw
l Coomb	2- 72	400- -	4SJ0y	4S- yS	4- S1J	JJy2	dDw
l TpC. Tomb	N671	2210	1yyJ	100y	1NyS	1NU14	dDw
l TpC. Tomb	NN71	11460	1S4N4	12460	1140-	NU64	dDw
l mPmp	- 471	- S24y2	- S1- S4	- S44- 0	- S20- 1	SUy2	dDw
Ar peomb	1yJ71	N- yJ2Ny	J- 4S124	1SSy60J2	J2y2S60	JU21	dDw
Ar peomb	1yJ72	- N1J- y1	- N6N1- S	- N60- 6-	- Ny161y	SU0-	dDw
AEs PPomb	2S- 71	1y10	1- yN	1- N-	142S	6USS	dDw
AEs PPomb	2Sy71	- - y1	- 4y1	- - 60	- - JS	1UyN	dDw
Ac	11N71	12SN	11N-	14J2	12Jy	1- U2-	dDw
AdS. omb	4071	4yN	yyS	460	4J2	1SUJ1	dDw
Rps. omb	2- N71	0N-	0- -	00y	064	- Uy1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlb

8spsb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Vs. soomb	y172	yS	4-	1-	- 6	y4UJ4	dDw
YTTr peomb	10271	10	- -	42	- 1	41U66	dDw
YTTr peomb	10272	44	yS	2N	41	2NUJ N	dDw
YTTr peomb	10671	1- SS	11yS	1- 60	1202	NU02	dDw
YTTr peomb	10672	JJ1y	JN01	1S- y4	1SS40	2U66	dDw
YTTpomb	NJ71	1SJJ4N0J	11N26NNy	1- SS- 126	11J416- S	NU4y	dDw
YTTpomb	NJ72	12y1y20	12012Sy	12yy6N2	12yJ401	SUN2	dDw
Zc d	6672	260	10-	14-	1J4	- - USN	dDw
ZqpdC. omb	JS71	02y	60y	1S2y	NSN	2- U42	dDw
ZqpdC. omb	J171	142	1SN	2SN	1y-	- - UJ -	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Aluminium	2572	94-	991	264	913	14.25	cps
Antimony	12171	3- 2	623	43P	336	16.59	cps
Arsenic	5372	3	-	8	5	28.9-	cps
Barium	19371	2P8	215	223	215	9.83	cps
Barium	19571	415	489	999	411	18.28	cps
Beryllium	- 71	12-	- -	83	1P4	21.48	cps
Bismuth	2P- 71	6215331	69993P-	632358-	6938- 3P	2.43	cps
Bismuth	2P- 72	2- P396P	9P92593	9P38513	2- - 8- 95	2.54	cps
Bromine	8171	9526	9- 94	4PP-	98- P	9.58	cps
Cadmium	1P871	15	15	19	13	13.56	cps
Cadmium	1P671	94- 2	9626	9456	9391	2.99	cps
Cadmium	11171	4P8	456	414	499	8.65	cps
Calcium	4971	66-	69P	316	6P3	19.1P	cps
Calcium	4471	44668	449P4	4254P	49- P4	2.99	cps
Carbon	1271	2144- 32	2P- 6535	2P84388	21P8566	1.31	cps
Carbon	1272	26641	23548	2614-	2615-	1.51	cps
Chlorine	9371	- 5P526	- 45328	- 13P89	- 44446	2.- 6	cps
Chlorine	9372	6325	636P	6255	6434	2.4P	cps
Chromium	3272	1195	119P	1149	1195	P.3-	cps
Cobalt	3- 72	- 9	- P	- 5	- 9	9.35	cps
Copper	6972	1435	1945	141P	14P3	9.- 9	cps
Dysprosium	13671	P	8	8	6	86.6P	cps
Dysprosium	13672	9	5	9	4	49.4P	cps
Erbium	16471	38	42	23	42	4P.PP	cps
Erbium	16472	29	1P	29	1-	4P.53	cps
Gadolinium	16P71	38	38	42	39	18.29	cps
Gadolinium	16P72	115	115	1PP	111	8.66	cps
Holmium	16371	- P3961-	88P9936	- 1- 9- 8P	- P16- 83	2.1-	cps
Holmium	16372	96565PP	9- 5829P	9- 86- 9P	988P62P	4.33	cps
Indium	11371	648338-	6448PP3	6596495	6336655	2.9-	cps
Indium	11372	888835	- 99954	- 31231	- 244- 4	9.48	cps
Iron	3472	- 61	1P89	658	- P5	22.- 9	cps
Iron	3672	19114	143P3	19634	19538	3.1P	cps
Iron	3572	944	4PP	9P6	93P	19.36	cps
Krypton	8971	224	225	236	296	5.34	cps
Lead	2P671	213P	2PP6	153P	1- 6-	1P.2-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9-BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Lead	2P571	2P36	15-3	1352	18P8	19.9-	cps
Lead	2P871	86P1	5-62	6-35	584P	1P.38	cps
Lithium	671	2912511	299285-	29-4614	2946594	1.82	cps
Magnesium	2472	1394	1489	- - 2	1996	22.4P	cps
Manganese	3372	1-P	18P	14P	15P	13.36	cps
Molybdenum	-471	1942	1P38	838	1P86	22.96	cps
Molybdenum	-371	183-	1323	1P-2	14-2	23.55	cps
Molybdenum	-671	1515	1653	11-2	1328	1-.1P	cps
Molybdenum	-571	1115	8-2	853	-61	14.P4	cps
Molybdenum	-871	293-	2P65	2P23	213P	8.43	cps
Neodymium	13P71	P	5	5	4	86.6P	cps
Neodymium	13P72	P	P	P	P	P.PP	cps
Nickel	6P72	8P	65	8P	56	1P.1-	cps
0hosphorus	9172	189	9P8	915	26-	25.52	cps
0otassium	9-72	199-8	19PP6	12364	12- - P	9.21	cps
Rhodium	1P971	6483134	6429161	6544643	633P-86	2.6P	cps
Rhodium	1P972	2854151	9P55949	9P85265	9P12-25	9.- -	cps
Scandium	4371	4911646	42P41-6	494P248	4283969	1.65	cps
Scandium	4372	19411P	14141-	149P38	19-32-	9.41	cps
Selenium	8271	21	1P	799	P	768P9.68	cps
Selenium	5572	5	P	9	9	1PP.P3	cps
Selenium	5872	18	-	13	14	92.59	cps
Silicon	2871	1813-P	158P69	15695P	158654	1.4-	cps
Silver	1P571	142	215	142	165	23.-8	cps
Silver	1P-71	65	1PP	3P	52	93.23	cps
Sodium	2972	96- - 8	95992	96433	96-28	1.2P	cps
Strontium	8671	18PP	2P3P	1289	1511	22.83	cps
Strontium	8871	19PP9	11P53	-431	11156	13.-1	cps
Sulfur	9471	9P3289	9P3895	9P644-	9P3835	P.1-	cps
Terbium	13-71	-1399-6	-194138	-293396	-154969	P.3-	cps
Terbium	13-72	95P513-	9-4386-	9-23555	983-6P2	9.49	cps
Thallium	2P971	1P3P	113P	1P65	1P8-	4.-2	cps
Thallium	2P371	2823	2442	21-2	2486	12.89	cps
Tin	11871	1153	1189	1142	1165	1.8-	cps
Titanium	4571	689	3PP	3P8	364	18.96	cps
Uranium	29871	11PP	599	3PP	558	98.8-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Vanadium	3172	49	4P	69	4-	23.81	cps
Ytterbium	15271	99	53	99	45	3P.- 3	cps
Ytterbium	15272	6	28	22	1-	62.49	cps
Ytterbium	15671	11P8	1123	1399	1236	1- .15	cps
Ytterbium	15672	- P85	- 556	- 6P4	- 48-	9.58	cps
Yttrium	8- 71	12114356	11- 16P44	12285P9-	121P3886	1.39	cps
Yttrium	8- 72	11552P4	12944- -	1261943	122493P	9.31	cps
Zinc	6672	219	165	15P	189	14.2P	cps
Zirconium	- P71	899	53P	323	5P9	22.5P	cps
Zirconium	- 171	89	38	138	1PP	32.P4	cps

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-2	1-21	14-6	1-S2	2M--	dDP
q. Tde C. h	121J1	16 S7	10SS7	1000	1022u	2M0u	dDP
qlPp. cd	0-J2	242	2-7	27S	242	4M06	dDP
Bl dbe	17-J1	1uuuS	10 0	1u 22	1u- 4	2M10	dDP
Bl dbe	170J1	7172S	77S4	77141	72-S4	7M16	dDP
BplhNbe	J1	22u1	22S1	22S1	222u	2M30	dDP
BdPe bTE	2S J1	614 S60	641u 7	6702-S1	6717-S2	2M2	dDP
BdPe bTE	2S J2	722u46	7SS16 S	712u10u	711 44-	7M04	dDP
BlCe c p	u1J1	7uu4	76S	4S06	7u-6	6M3	dDP
Fl oe dbe	1SuJ1	10	1-u	1u7	104	0M01	dDP
Fl oe dbe	1S6J1	7010	4160	476u	4Su4	uM1-	dDP
Fl oe dbe	111J1	2--	2-44	27S	240S	-M0u	dDP
Fl Ndbe	47J1	11u71	11u6u	127S4	12SS1	2M1	dDP
Fl Ndbe	44J1	22u271	22u6u0	271666	22 -2u	SM11	dDP
Fl lr C.	12J1	22S- u4	21-2S 4	210u 17	210u 0	1M24	dDP
Fl lr C.	12J2	207-	20206	26u42	201-	1M32	dDP
FENCl c p	7-J1	02S01-	0S06 6	6u11S2	0S7101	2M10	dDP
FENCl c p	7-J2	4 -1	46u4	4 S	4u4u	2M6	dDP
FElCe dbe	-2J2	- u1	6S6-	61S-	6S-S	1M34	dDP
FCrl NT	- J2	4- 1	4u01	46u1	4014	7M37	dDP
FCDDpl	67J2	u606	u406	u0-7	u67-	1M66	dDP
&hPDlCPtbe	1-6J1	u	u	u	u	SM3S	dDP
&hPDlCPtbe	1-6J2	0	0	7	6	74M0S	dDP
Ulr dbe	164J1	0-	-u	2-	-7	4uM24	dDP
Ulr dbe	164J2	27	27	20	24	0M1	dDP
Gl oCNd dbe	16SJ1	110	60	0-	u6	71M11	dDP
Gl oCNd dbe	16SJ2	12S	177	170	17S	6M0	dDP
HCNe dbe	16-J1	u07Su0u	14-66u	262 4	S464	7M3	dDP
HCNe dbe	16-J2	416266	7 11 -4	7 6 077	4S140u6	7M20	dDP
t. odbe	11-J1	6-1107S	660-727	60Su-Su	6671u-4	1M1	dDP
t. odbe	11-J2	1SSS4-0	20 S7	0762	6077S	7M0	dDP
tlC.	-4J2	27714	244S4	2760S	270 6	2M74	dDP
tlC.	-6J2	4260	421 42	42u6--	42-0	SM11	dDP
tlC.	-0J2	1Su26	11S1S	111uu	11SSu	1M64	dDP
KlhDTC.	u7J1	202	20S	261	26u	2M21	dDP
Lpl o	2S6J1	u4u6	26-	SS7	u 1u	4M44	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-4S7 B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0-0-	00uS	06-2	066	1M7-	dDP
Lpl o	2SuJ1	7-714	7-u4u	7-77S	7-4 0	SM-	dDP
LdEdbe	6J1	22uS776	2766-u	2442 71	27672u-	7M4	dDP
9 l g. pPdbe	24J2	20S	1S1--7	6uS-	2S	2M7	dDP
9 l . gl . pPp	--J2	1707	12 0	1767	174-	7M1S	dDP
9 CNr op. be	4J1	10S0u	10-4-	1u1S4	10-06	2M2	dDP
9 CNr op. be	-J1	22-76	216-	2201	227S-	2M4	dDP
9 CNr op. be	6J1	24-40	24464	24622	24-44	SM2	dDP
9 CNr op. be	0J1	12 u	17	17024	17-04	7M1	dDP
9 CNr op. be	uJ1	74SS	7-2-4	7-01-	74 7	2M2	dDP
mpCohe dbe	1-SJ1	2S	S	0		114M-	dDP
mpCohe dbe	1-SJ2	7	S	S	1	107M1	dDP
mdkpN	6SJ2	17-0	1-17	17u0	141	-M6	dDP
3ECPDECIbP	71J2	1-S	2u7	2-S	22u	7SM6	dDP
3CTPPdbe	7 J2	01070	07S00	07144	026-7	1M	dDP
y ECodbe	1S7J1	62 2762	60 46-0	66u 6S	6- 2720	4M2	dDP
y ECodbe	1S7J2	72S-6-6	7S27u2S	7S61-07	7S 0S16	7M1S	dDP
: dl . odbe	4-J1	4S46u-7	424-S 7	474S-	421Su4u	7M6	dDP
: dl . odbe	4-J2	1-1042	17u4	1471--	144466	4M-	dDP
: pNp. dbe	u2J1	001	061	0-2	062	1M7	dDP
: pNp. dbe	00J2	70	7S	2S	2	2 M4	dDP
: pNp. dbe	0uJ2	11	114	1S	114	4M	dDP
: dNdC.	2uJ1	27-44u	272Su	27774	27762	SM7	dDP
: dNpl	1S0J1	1Su7S	1177S	1147S	111 6	2M0	dDP
: dNpl	1S J1	11S7u	1117u	1Su--	11S1S	1M1	dDP
: Codbe	27J2	2S6604	2S677	2S24u4	2S-166	1M7	dDP
: TC. Tdbe	u6J1	72SS	7260	772-	7264	1M2	dDP
: TC. Tdbe	uuJ1	27062	22-6	276 6	27742	2M0	dDP
: bNbl	74J1	71Su21	7124 -	711uS7	7110S0	SM0	dDP
Apl r dbe	1- J1	uuu1 u	246747	46 07-	1 7-6	7M2	dDP
Apl r dbe	1- J2	4S-4021	70-741	7uu7600	7u 0207	7Mu	dDP
AEl NNbe	2S7J1	1S117	1S767	u46	1S1S0	2M6	dDP
AEl NNbe	2S-J1	2-S66	276--	220S4	27uS	4M	dDP
Ac	11uJ1	11 2	11 2	1277	12S6	2M	S
AdT. dbe	40J1	646u	6047	607-	664	2M7-	dDP
5 ll . dbe	27uJ1	722-S	72 6S	7210-	72462	1M7	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	407	4u7	-07	-1S	SMu	dDP
YTpIr dbe	102J1	2-	-S	60	40	44M1	dDP
YTpIr dbe	102J2	77	11	11	1	6 M2u	dDP
YTpIr dbe	106J1	1410	1460	12SS	1761	1SM1	dDP
YTpIr dbe	106J2	1S2 7	1S16-	1S-01	1S747	2M31	dDP
YTTdbe	u J1	11- 4147	121u --u	12S- 6-	11 400u0	2M62	dDP
YTTdbe	u J2	17u16Su	1227u0	126u 02	12 14u6	6M2	dDP
Zc d	66J2	22 4	2744	2-u4	24S0	6M4	dDP
ZddC. dbe	SJ1	144-u	140-S	1-2-S	14u1	2M3S	dDP
ZddC. dbe	1J1	7460	7442	7-S1	740S	SM4	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t N:&T:J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t N:&T:J	y h SMs6	T qbiqC. :M OCI:J	1
TI ip:A:coe p:dOobqpn:J	2S2- S0 12:1- J- aJ7s	TI il MqN:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q qpe	20 2	17s1	1722	1726	1740	2R7S	Q P
d. iqe C. E	121 1	s- -	a- -	s60	s11	0R62	Q P
dIPp. qO	07 2	21	- 1	2a	20	1sR24	Q P
BI lqpe	1- 7 1	207s6	2a- - S	2a4as	2a1- a	1R6s	Q P
BI lqpe	1- 0 1	71S- s	4s- a-	7S40S	7S2s0	1R60	Q P
BpIENqpe	s 1	162	16S	177	17s	2R4S	Q P
BqPe biG	2Ss 1	7a00s44	6S- 12- 2	6176S64	6S21040	2R 1	Q P
BqPe biG	2Ss 2	- S200a0	2aa2- 70	2ss666-	2s6as- 6	2R7a	Q P
BICe q p	a1 1	1766a	1a446	21460	1a720	17R66	Q P
9 I ne qpe	1Sa 1	10	- -	10	22	4- R2a	Q P
9 I ne qpe	1S6 1	- - - 4	- 742	- 4Ss	- 42a	- RSa	Q P
9 I ne qpe	111 1	- 6-	- 0-	- 01	- 6s	1R 2	Q P
9 I NQqpe	4- 1	2S0asa	212sS4	21211s	21Ss04	1R2a	Q P
9 I NQqpe	44 1	- 7SS0s6	- 7s- 746	- 7- Sa1s	- 74102S	1R 4	Q P
9 I Ir C.	12 1	2a710aS	- 1s6s7S	- 4724- 2	- 160S74	sR72	Q P
9 I Ir C.	12 2	4011a	4s66S	711S6	4s2s4	4R1S	Q P
9 GNCIq p	- 7 1	0S6- a1	0Ss4S6	02- a44	01- 21S	1R 1	Q P
9 GNCIq p	- 7 2	7771	7Sa4	7S71	722s	7R 7	Q P
9 GICe qpe	72 2	0272	01- 7	0S72	0146	1R41	Q P
9 Cr I N	7s 2	06S	040	670	021	0R0s	Q P
9 Ct pI	6- 2	22- S	24a4	220S	2- 2a	7Ra7	Q P
TEPt ICPqpe	176 1	260	- SS	207	2a1	6R1a	Q P
TEPt ICPqpe	176 2	11-	12-	1S0	114	0R -	Q P
UIr qpe	164 1	27S	- 10	27S	202	14R14	Q P
UIr qpe	164 2	12S	110	11S	116	4R41	Q P
HI nCNqqpe	16S 1	- SS	- Sa	- 7S	- 1s	aR s	Q P
HI nCNqqpe	16S 2	210	27S	20S	246	1SR30	Q P
h CNe qpe	167 1	a- ass00	a7asss2	aa7S740	a61S102	2R6a	Q P
h CNe qpe	167 2	- a6- 74S	- 0- 4076	- a- 20- S	- a1S- 42	1R06	Q P
& nqpe	117 1	6- 46461	641s106	647s1a7	64Sa204	SRas	Q P
& nqpe	117 2	s- s7S0	aa026-	s11S26	s127ss	2Ra0	Q P
&C.	74 2	226S2	226sS	22- S0	227- -	SRas	Q P
&C.	76 2	4S7- 46	41- 604	4S4Ssa	4S00S6	1R2a	Q P
&C.	70 2	1Ss21	1Sa6S	1S0a2	1Sa74	SR64	Q P
KIEt iC.	a- 1	24S	227	261	242	0R7-	Q P
LpI n	2S6 1	24- 4	242a	2610	24s-	4R 1	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SMs6	TdNiqC. :M CICI:J	1
TI ip:A:cqe p:dQobdqpn:J	2S2- S0 12:1- J- aJ7s	TI il MdNd:mI e p:J	S2- dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	21S6	222a	2Ss7	214-	- R47	CI P
LpI n	2Sa 1	s0S2	1S2- 7	sa6a	ss- 7	2R07	CI P
LqGdpe	6 1	224SS11	24S6- Ss	2206s77	2- S007a	- R0a	CI P
y I g. pPdpe	24 2	- 240- 4	- - S011	- 22s74	- 261- -	1R27	CI P
y I . gI . pPp	77 2	sS16	ass-	aaS-	as- 0	1R 1	CI P
y CNEr np. be	s4 1	277S	2- 07	27a4	27S-	4R40	CI P
y CNEr np. be	s7 1	- 4s2	- 67s	- - 42	- 4sa	4R7-	CI P
y CNEr np. be	s6 1	4S42	- s42	- 060	- s10	- R77	CI P
y CNEr np. be	s0 1	27SS	2227	24Ss	2- 0a	7Ras	CI P
y CNEr np. be	sa 1	771S	7- s-	7706	74s-	1R6s	CI P
mpOnEe dpe	17S 1	720	740	4s-	722	7R16	CI P
mpOnEe dpe	17S 2	10S	10S	170	166	4R67	CI P
mqOkpN	6S 2	1160	1- - -	12- 0	1246	6R02	CI P
uGCPt GCIbP	- 1 2	- SS	27S	2a-	20a	sR16	CI P
uCIl PPdpe	- s 2	1- S1S1	1- 140a	120a46	12saSa	1R41	CI P
FGCndpe	1S- 1	6117062	62aasS7	6- 02766	627sS00	2RSs	CI P
FGCndpe	1S- 2	- S20007	2s41- ss	- S4212a	- SS- 060	1Ra1	CI P
DCI . ndpe	47 1	4S222Sa	4S04s0a	4S042- 7	4S7014S	SR07	CI P
DCI . ndpe	47 2	14S07-	1- 4- 02	1- 6S4S	1- 0S77	2R41	CI P
DpNd. dpe	a2 1	a	0a	6	- S	1- 4RS0	CI P
DpNd. dpe	00 2	S	0	S	2	10- R21	CI P
DpNd. dpe	0a 2	1s	2a	21	2-	2SRa7	CI P
DqNDC.	2a 1	1SaS4SS1	11477Ssa	111a72- 6	1114a112	2R3-	CI P
DqNpI	1S0 1	1Sa	a-	127	1S6	1sRa6	CI P
DqNpI	1Ss 1	110	110	60	1SS	2aRa0	CI P
DCndpe	2- 2	217s642	2166a6s	21Sssaa	21477SS	1R44	CI P
DiIC. idpe	a6 1	sa0S0	1S7714	ss7a0	1S126s	- R36	CI P
DiIC. idpe	aa 1	a61a76	aaaS6-	aa421s	a0aS46	1R31	CI P
DbNbI	- 4 1	4S266-	4S2761	4S6141	4S- 0aa	SR7S	CI P
cpIr dpe	17s 1	a71S1a-	aa- s72-	sSas64-	aa1- 116	- R S	CI P
cpIr dpe	17s 2	- a72474	- 046- s-	- aS4asa	- aS124s	1R4S	CI P
cGI NNdpe	2S- 1	6s2	77S	6s2	644	12R3s	CI P
cGI NNdpe	2S7 1	12s2	1160	1S07	110a	sR2-	CI P
cq	11a 1	22s2	2- Ss	1s7s	21a6	sRS-	CI P
cqI . dpe	40 1	060	s42	aSS	a- 6	11R11	CI P
5 II . dpe	2- a 1	1s- 2-	2S0S1	1sa- -	1ss72	- R4s	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SMs6	Td iqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:1- J- aJ7s	TI il Mdd:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	47-	770	4sS	7SS	1SR4a	Qt P
Yiiplr dpe	102 1	17a	110	1- -	1- 6	17R41	Qt P
Yiiplr dpe	102 2	1S6	61	as	a7	26R 6	Qt P
Yiiplr dpe	106 1	147S	127S	1210	1- S6	sR30	Qt P
Yiiplr dpe	106 2	sa- 2	s7sa	s6s-	s0S0	1R21	Qt P
Yiild pe	as 1	112sa676	1147S110	11761414	114- 602s	1R17	Qt P
Yiild pe	as 2	1241as2	1166a47	12Ss707	12S61S4	- R12	Qt P
Zq O	66 2	4414	4- s0	4S- 0	42a-	4R30	Qt P
Zd OC. dpe	sS 1	12Sa	1427	107s	1464	1aR3-	Qt P
Zd OC. dpe	s1 1	1a-	260	- s2	2a1	- 0R a	Qt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	21Sh	2Sa1	2S24	2S01	2M8h	dDl
qCTb nCE	121 1	610	6h2	67S	67-	7M06	dDl
qpl r Ccl	07 2	60	74	7a	6S	11M16	dDl
Bwpcmb	1- 7 1	4h710	714S0	7221S	71S47	2M01	dDl
Bwpcmb	1- 0 1	a660a	ah71-	hS26a	aaa1h	2M1-	dDl
Br pE8mb	h 1	212	2- 1	21h	221	4M2	dDl
Bdl b mTG	2Sh 1	6- h- haS	620a- 74	644h6S4	6- 0- h0h	1M0	dDl
Bdl b mTG	2Sh 2	- SS147-	- - - h12h	- Sa14a1	- 14S6aa	7M02	dDl
Bpmb cCr	a1 1	2707a	- 1- 61	- 0h44	- 16aa	1hM27	dDl
5 wob cmb	1Sa 1	h2	- -	a-	6h	47M44	dDl
5 wob cmb	1S6 1	- 7a4	- 710	- 7S1	- 7- 4	1M27	dDl
5 wob cmb	111 1	- a6	- h1	- 0h	- a7	1M72	dDl
5 w8lcmb	4- 1	4211h0	4- 6h02	44661S	4- 4h26	2M17	dDl
5 w8lcmb	44 1	0- 1660h	026SS7a	0717a10	0- 641a7	1M42	dDl
5 wpenC	12 1	4Sa2762	477ah74	407721a	446770a	0M07	dDl
5 wpenC	12 2	67S20	60067	67h4a	66240	2M1S	dDl
5 G8mpCr	- 7 1	6a27h4	0SS207	0211- S	0S1- - -	2M07	dDl
5 G8mpCr	- 7 2	7- 6S	7006	7- 7h	74ha	4Ma	dDl
5 Gpmb cmb	72 2	4S- 0	4SS0	- 0h4	- h46	- M6	dDl
5 new8T	7h 2	17S-	1700	164S	170-	4M7	dDl
5 nDDr p	6- 2	264S	27S0	20a4	2644	7M4-	dDl
&El Dpnl cmb	176 1	- 07	207	- 42	- - 1	17M4S	dDl
&El Dpnl cmb	176 2	100	14S	14-	17-	1- M42	dDl
Fpecmb	164 1	- a-	442	4a-	4- 6	11M72	dDl
Fpecmb	164 2	16S	120	220	101	2hM06	dDl
Hwon8Cmb	16S 1	- h2	- 60	47S	4S-	1SM02	dDl
Hwon8Cmb	16S 2	2hS	260	200	20a	4M42	dDl
y n8b cmb	167 1	hS7741S	ahh4- a1	hS22SS2	hS2- h- 1	SM4	dDl
y n8b cmb	167 2	- h- a- 6h	4- 0a- S0	4S6- S01	41267a2	7M4h	dDl
tCocmb	117 1	6711014	6740a- 1	64- 16- h	64h0S61	SM42	dDl
tCocmb	117 2	h1- a1-	1S- - - 22	h64044	h0S626	6M1a	dDl
tpnC	74 2	6Sa- 7	7hS11	700- h	7h1h7	2M0-	dDl
tpnC	76 2	1Sa- 2ha	1S014S2	1S004- a	1S00- aS	SM77	dDl
tpnC	70 2	20a20	2aa1a	2ah04	2a74S	2M1a	dDl
KpEDTnC	a- 1	242	214	24S	2- 2	6M46	dDl
Lr wo	2S6 1	2- 76	2711	2476	2441	- M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	2S76	1hah	1aah	1h0a	4M24	dDl
Lr wo	2Sa 1	h7- 7	h61-	h1h6	h44a	2M7	dDl
LdTGmb	6 1	2- SS- 40	2- Sh- a-	22hh6hS	2- S- 14S	SM24	dDl
9 wgCr l mb	24 2	a- h7- a	a44441	a- 6020	a4S2- 7	SM46	dDl
9 wCgwCr l r	77 2	40- 0a	407S2	40066	4074h	SM42	dDl
9 n8Eeor Cmb	h4 1	1S- 21	1S674	1S20h	1S41a	1M10	dDl
9 n8Eeor Cmb	h7 1	104- 6	1aS74	10a2S	1000S	1M07	dDl
9 n8Eeor Cmb	h6 1	1ah40	1hS- h	1h7a1	1h1ah	1M0h	dDl
9 n8Eeor Cmb	h0 1	1S0- a	1S646	117aa	1Shh1	4M0-	dDl
9 n8Eeor Cmb	ha 1	20- 1h	2a246	2a2aa	20h71	1M16	dDl
u r noEb cmb	17S 1	62S	62S	7a0	6Sh	- M16	dDl
u r noEb cmb	17S 2	160	160	1hS	104	0M02	dDl
u cdkr 8	6S 2	67S	0- 0	64-	600	0M0S	dDl
NGhl DGhpml	- 1 2	1h2	- SS	47a	- 10	42M7	dDl
NnTwl l cmb	- h 2	21a4aS	2107hh	21aa16	21a2hh	SM2h	dDl
. Ghocmb	1S- 1	6446ha7	64S2- 14	6- h66- 1	6417- 1S	SM4-	dDl
. Ghocmb	1S- 2	2ha- 7a1	- - 0hS70	- S00- 61	- 146666	6M10	dDl
l dwCocmb	47 1	412S40h	4217a- 1	41742S4	416- 7S7	1M16	dDl
l dwCocmb	47 2	14SS16	174S1h	146S4a	1466h4	4M0h	dDl
l r 8 Ccmb	a2 1	41	76	0-	70	20M7a	dDl
l r 8 Ccmb	00 2	-	S	0	-	1SSM37	dDl
l r 8 Ccmb	0a 2	2-	17	20	22	2aM2S	dDl
l 8dnC	2a 1	107- a60-	1a- - a20-	10074411	10a0011h	2M1	dDl
l 8vr p	1S0 1	1Sa	7S	127	h4	41M0S	dDl
l 8vr p	1Sh 1	110	- -	h2	a1	7- M3h	dDl
l nocmb	2- 2	4- - 4a2S	420044S	4Sh1040	42- 466h	- M3S	dDl
l TpmCTcmb	a6 1	2711h2	2611- 4	261744	270h70	2M20	dDl
l TpmCTcmb	aa 1	226S204	2- 74- 7S	2- aa46h	2- - 4- 64	2M44	dDl
l m8mp	- 4 1	671471	6644S-	661Sa6	67ahaS	1M32	dDl
Ar pecmb	17h 1	h1h61- 4	ahaah16	h2- 40h-	h1- hh4a	1M47	dDl
Ar pecmb	17h 2	- a441- -	421244-	- ah44Sa	- ha- 661	7M31	dDl
AGw8mb	2S- 1	7- -	47a	77a	710	1SM30	dDl
AGw8mb	2S7 1	1442	1210	1- - -	1- - 1	aM46	dDl
AdC	11a 1	22SS	24SS	2442	2- 4a	7M7S	dDl
AdTwCcmb	40 1	1S07	a42	a7S	h22	14M7	dDl
RpwCcmb	2- a 1	424S7	4- 1S0	4- 216	42hSh	1M3-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	71 2	47-	44-	40-	470	- M7	dDl
YTTr pecmb	102 1	127	17a	227	16h	- SN87	dDl
YTTr pecmb	102 2	110	a-	122	1S0	1hM7a	dDl
YTTr pecmb	106 1	147a	1410	1- 7S	14Sa	- Na	dDl
YTTr pecmb	106 2	1SS17	11177	1SS4h	1S4S6	6M2-	dDl
YTTpcmb	ah 1	117h6217	11- a2Sh2	11ha0100	11677161	2M4-	dDl
YTTpcmb	ah 2	12- S777	141a4a7	1- - - S1-	1- 20- 71	0N8h	dDl
ZdCd	66 2	11607	116S7	12117	110ha	2M7	dDl
ZqpdnCcmb	hS 1	17Sh	1710	1- 7S	147a	6M44	dDl
ZqpdnCcmb	h1 1	2h2	1a-	242	2- h	22N0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1h22	1h- S	1hS7	1h1h	SM60	dDl
qCTb nCE	121 1	0- -	a42	77S	0Sa	2SM41	dDl
qpl r Ccl	07 2	01	76	61	6-	12M1h	dDl
Bwpcmb	1- 7 1	72171	72h62	71122	72S0h	1M00	dDl
Bwpcmb	1- 0 1	ahSa7	h20- 4	h2S02	h12h0	2M1-	dDl
Br pE8mb	h 1	1a0	1h6	1a1	1aa	4M8S	dDl
Bdl b mTG	2Sh 1	610424S	7a617S0	62a702-	61S0170	- M0S	dDl
Bdl b mTG	2Sh 2	2hh7461	- S46SaS	- SS16- S	- S14- hS	SM12	dDl
Bpmb cCr	a1 1	2a0- a	- 644S	- h617	- 4h- 1	16M81	dDl
5 wob cmb	1Sa 1	07	7S	60	64	1hM12	dDl
5 wob cmb	1S6 1	- 7S1	- 206	- 706	- 471	4M7-	dDl
5 wob cmb	111 1	- 6S	- a4	- a6	- 00	- M44	dDl
5 w8lcmb	4- 1	4- ShS1	4- h700	44612-	4- aa60	1M04	dDl
5 w8lcmb	44 1	0166h12	04a4h61	07S1- S6	0- a4- h-	2M77	dDl
5 wpenC	12 1	416S417	474h7h2	4a6a002	472626S	0M44	dDl
5 wpenC	12 2	64410	6a74-	6h724	604h4	4M82	dDl
5 G8hpCr	- 7 1	6744hh	602S02	6h447a	60- 606	2M10	dDl
5 G8hpCr	- 7 2	4ah-	4h26	7471	7ShS	6M16	dDl
5 Gpmb cmb	72 2	- a24	4S40	- a71	- hS0	- M12	dDl
5 new8T	7h 2	16- S	1010	144-	17h0	aM07	dDl
5 nDDr p	6- 2	2- 44	2- 0S	24- S	2- a1	1M46	dDl
&El Dpnl cmb	176 1	2a-	207	227	261	12M8a	dDl
&El Dpnl cmb	176 2	100	16-	14-	161	1SM41	dDl
Fpecmb	164 1	- 7S	260	- 27	- 14	1- M02	dDl
Fpecmb	164 2	14-	1aS	14S	174	14M0	dDl
Hwon8Ccmb	16S 1	- - -	- h2	460	- h0	16M4-	dDl
Hwon8Ccmb	16S 2	2hS	2- -	2- 0	27-	12M77	dDl
y n8b cmb	167 1	aa- 4070	a- 47710	h2- - - 7a	aaS4744	7M87	dDl
y n8b cmb	167 2	- ha721-	4S40166	- h6- 04h	- hha0Sh	1M8a	dDl
tCocmb	117 1	671aSh0	61aS7S7	6710417	64S7- - h	- M84	dDl
tCocmb	117 2	h- h7h1	h27- 01	h26S- -	h- S- - 2	SM46	dDl
tpnC	74 2	7- 7a4	77h- 2	7720h	74h- 1	2M21	dDl
tpnC	76 2	1SSa7- 6	1S224S0	1SS2h16	1S112a0	SM1h	dDl
tpnC	70 2	26- 7a	26- 72	26- 6-	26- 7a	SM82	dDl
KpEDTnC	a- 1	241	220	2- h	2- 6	- M11	dDl
Lr wo	2S6 1	2Sah	2210	2S60	2124	- M41	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :uwb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1047	1676	10SS	10SS	2M61	dDl
Lr wo	2Sa 1	0h0h	a271	0a2h	aS2S	2M60	dDl
LdTGmb	6 1	2- - 077-	210hh06	2- 0041h	22ha- 16	4M74	dDl
9 wgCr l mb	24 2	a476S1	a460a-	a72h04	a4a47-	SM40	dDl
9 wCgwCr l r	77 2	40Sa0	4a4- h	4014a	4077a	1M61	dDl
9 n8Eeor Cmb	h4 1	1SS- 0	haa0	1S7h6	1S10-	- M60	dDl
9 n8Eeor Cmb	h7 1	101- 6	10S61	1a162	1047-	- M7-	dDl
9 n8Eeor Cmb	h6 1	1a66-	1h1ah	1a0aa	1aaaS	1M47	dDl
9 n8Eeor Cmb	h0 1	1S6- a	1Sa01	1S- - 0	1S617	2M72	dDl
9 n8Eeor Cmb	ha 1	2a- 6-	2a6- h	20261	2aSaa	2M6S	dDl
u r noEb cmb	17S 1	61-	760	6aS	62S	hM1h	dDl
u r noEb cmb	17S 2	100	100	1hS	1a1	4M27	dDl
u cdkr 8	6S 2	67-	0- 0	7hS	66S	11M17	dDl
NGhl DGhpml	- 1 2	2- -	210	2a-	244	14M1h	dDl
NnTwl mb	- h 2	2164h4	210aa1	214a04	216416	SM0S	dDl
. Ghocmb	1S- 1	64SS00-	6S160ha	640a461	62ha60a	- M12	dDl
. Ghocmb	1S- 2	- S- 7004	2h02- 44	- S24S- S	- S1S016	1M12	dDl
l dwCocmb	47 1	41S4- 11	- ah- S6S	42- - 641	4S00SS4	4M22	dDl
l dwCocmb	47 2	1- h1- S	14S0h6	1- h- 0a	1- h06a	SM04	dDl
l r 8 Ccmb	a2 1	7a	ah	110	aa	- 4M1-	dDl
l r 8 Ccmb	00 2	S	1S	1S	0	a6M0S	dDl
l r 8 Ccmb	0a 2	10	1a	26	2S	24M26	dDl
l c8dnC	2a 1	1046- S4h	100S07S0	10704104	107a1700	SM0S	dDl
l c8vr p	1S0 1	7a	a-	127	ah	- 0M1h	dDl
l c8vr p	1Sh 1	7S	60	42	7-	24M12	dDl
l nocmb	2- 2	42- 0- - 1	4242h66	42h4a77	427a- a4	SM04	dDl
l TpnCTcmb	a6 1	27- 2- 4	27ha02	27hh- 4	2706aS	1M4h	dDl
l TpnCTcmb	aa 1	220ah- S	2- 61ah4	24S616h	2- 4ahh0	2M07	dDl
l m8mp	- 4 1	6407- S	674274	674a6S	672217	SM62	dDl
Ar pecmb	17h 1	aa0002a	a47- h- 6	h1a- a7h	aa- a7Sa	4M17	dDl
Ar pecmb	17h 2	- ah10S0	- a0h7- 7	- hS1- 0h	- ahSa0-	SM2a	dDl
AGw8mb	2S- 1	442	- Sa	727	427	27M02	dDl
AGw8mb	2S7 1	a- -	h42	a42	a02	6M11	dDl
AdC	11a 1	2S42	1a60	1h7h	1h76	4M1a	dDl
AdTwCcmb	40 1	a10	0h2	007	0h4	2M64	dDl
RpwCcmb	2- a 1	412S1	4216-	42- 64	41hSh	1M1a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	71 2	70-	- aS	4SS	471	2- M0	dDI
YTTr peomb	102 1	1a-	2Sa	1h2	1h4	6M7	dDI
YTTr peomb	102 2	60	111	h4	h1	24M4	dDI
YTTr peomb	106 1	1- - -	1260	14h2	1- 64	aM0	dDI
YTTr peomb	106 2	1S- 74	1S421	1S101	1S- 17	1M6	dDI
YTTpomb	ah 1	1162- S41	11SS6074	11aahSaa	117S62h4	- M-	dDI
YTTpomb	ah 2	1270S0S	12- a- 07	122a016	1241- a0	1M6	dDI
ZdCd	66 2	112h7	1176a	117- 1	11467	1MS	dDI
ZqpdnComb	hS 1	11SS	1S7S	1S60	1S02	2M0	dDI
ZqpdnComb	h1 1	242	210	2- -	2- 1	7M2	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Aluminium	23X2	436	022	02O	0O6	0.14	cps
Antimony	121X1	10O	130	242	189	20.O9	cps
Arsenic	30X2	10	11	11	12	18.32	cps
Barium	1- 0X1	1O3- 8	1O046	11- O0	1O86-	- .6-	cps
Barium	1- 3X1	186O0	180- 8	1904O	18894	2.96	cps
Beryllium	9X1	80	80	89	86	2.01	cps
Bismuth	2O9X1	60- 3094	601344-	60- O1O8	6028- 82	O.16	cps
Bismuth	2O9X2	- 1- - 894	- 24O849	- O98- 34	- 103632	2.- 0	cps
Bromine	81X1	14920	16236	1094-	10310	4.48	cps
Cadmium	1O8X1	04	- -	31	0-	- 0.6O	cps
Cadmium	1O6X1	- 392	- 836	- 809	- 842	1.10	cps
Cadmium	111X1	- 04	- 9-	- 3O	- 32	0.- 0	cps
Calcium	4- X1	9O- 3O	91O91	91031	91O1O	O.66	cps
Calcium	44X1	1039029	1089636	161- 01O	10942- 9	1.O9	cps
Carbon	12X1	- O003- 1	- 14- 232	- 121- O2	- 1O6368	1.43	cps
Carbon	12X2	4O3O3	- 9O19	- 8068	- 94- 1	2.86	cps
Chlorine	- 0X1	483029	438300	434233	48O183	1.4O	cps
Chlorine	- 0X2	- 9O9	- - 13	- 436	- 063	8.09	cps
Chromium	02X2	16- O	133-	132-	13O9	4.26	cps
Cobalt	09X2	- 3-	- OO	4O-	- 09	14.81	cps
Copper	6- X2	1O9O	1213	126-	119O	3.04	cps
Dysprosium	106X1	1O8	63	92	89	2- .09	cps
Dysprosium	106X2	- -	13	4O	- O	4O.O0	cps
Erbium	164X1	18-	130	120	161	19.08	cps
Erbium	164X2	4-	0O	6O	01	16.42	cps
Gadolinium	16OX1	142	30	108	120	- 0.28	cps
Gadolinium	16OX2	16-	18O	13O	131	4.9O	cps
Holmium	160X1	9- 40643	918- 938	92O899-	92462O6	O.94	cps
Holmium	160X2	41430O4	4148- 13	414- 3- 6	4146019	O.O6	cps
Indium	110X1	68169OO	68O0O- 6	681O69-	681O836	O.O9	cps
Indium	110X2	9866- 4	968831	932640	936O0O	O.96	cps
Iron	04X2	11900	12O00	12189	12O66	O.93	cps
Iron	06X2	214O80	21938O	21- 6O3	210824	1.09	cps
Iron	03X2	0824	6- 46	0368	0939	0.- -	cps
Krypton	8- X1	204	26O	23O	261	- .14	cps
Lead	2O6X1	1O90	11- 9	1122	1119	2.O1	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264C3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XC2L70	Instrumnet Name :	P8
Client Sample ID :	MHCF93L	Dilution Factor :	0
Date & Time Acquired :	2C2- XC3X12 1- :43:06	DataFile Name :	C26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Lead	2C3X1	8C6	9CC	8C6	8- 3	6.01	cps
Lead	2C8X1	42C6	4C2-	4C89	41C6	2.26	cps
Lithium	6X1	241- 092	2- 01- 88	2- 841C3	2- 8- C29	1.- 1	cps
Magnesium	24X2	1348C2	1369- 4	1693C9	13- 810	2.14	cps
Manganese	00X2	988C	93- -	949C	93C1	2.C-	cps
Molybdenum	94X1	20- 4	240C	2192	2- 92	3.40	cps
Molybdenum	90X1	- 242	- - C9	- 6C9	- - 83	0.33	cps
Molybdenum	96X1	- 392	- 926	4- C1	4CC6	6.08	cps
Molybdenum	93X1	2163	22- 4	200C	2- 13	8.84	cps
Molybdenum	98X1	0626	06- 0	61- 0	0399	0.C2	cps
Neodymium	10CX1	83	1C3	14C	111	24.20	cps
Neodymium	10CX2	4-	4C	0-	46	10.2-	cps
Nickel	6CX2	193	103	2C-	186	1- .6C	cps
Phosphorus	- 1X2	220	192	2C8	2C8	8.CC	cps
Potassium	- 9X2	0- 826	04244	02039	0- 00C	1.62	cps
Rhodium	1C- X1	6692699	6636- 04	631C688	669- 243	C.26	cps
Rhodium	1C- X2	- 200- 29	- 21- 93C	- 14- 8- 6	- 2C4- 38	1.36	cps
Scandium	40X1	4- 8- C12	42- 46C9	42C1003	423- C6C	2.26	cps
Scandium	40X2	1449C-	146C64	143C30	146C14	C.34	cps
Selenium	82X1	41	X16	X4	3	426.90	cps
Selenium	33X2	C	C	C	C	C.CC	cps
Selenium	38X2	19	10	10	16	14.14	cps
Silicon	28X1	- 3- 0016	- 398168	- 833433	- 8C- 32C	1.83	cps
Silver	1C3X1	1C8	08	120	93	- 0.69	cps
Silver	1C9X1	42	42	13	- -	4- .- C	cps
Sodium	2- X2	89- 644	886199	88- 202	883698	C.6C	cps
Strontium	86X1	048C8	0- 428	04- 81	042C6	1.- C	cps
Strontium	88X1	409- 98	46183-	408911	46CC61	C.- 0	cps
Sulfur	- 4X1	- 660- 9	- 60868	- 6628C	- 66229	C.C9	cps
Terbium	109X1	9409182	9299123	928841C	9- 489C6	1.C2	cps
Terbium	109X2	41212- 3	- 99- 3- 0	- 933012	4C- C828	1.90	cps
Thallium	2C- X1	292	- 20	- 8-	- - -	1- .92	cps
Thallium	2C0X1	80C	330	313	381	8.06	cps
Tin	118X1	1692	1420	14C8	10C8	1C.04	cps
Titanium	43X1	292	230	- CC	289	4.41	cps
Uranium	2- 8X1	8038	862C	88C-	8663	1.- 8	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Vanadium	01X2	1O3	1O3	8O	98	10.30	cps
Ytterbium	132X1	1- -	63	30	92	- 9.6-	cps
Ytterbium	132X2	44	0O	06	0O	11.11	cps
Ytterbium	136X1	1142	1263	1- 42	120O	8.O3	cps
Ytterbium	136X2	1O136	1O604	1O- 99	1O41O	2.- O	cps
Yttrium	89X1	12- O0822	1186991O	12O8O- 0O	12O80- 61	1.8O	cps
Yttrium	89X2	1- O2- 43	1292640	12361- 4	129O- 30	1.O-	cps
Zinc	66X2	260O	232O	2093	2606	2.- -	cps
Zirconium	9OX1	40O	60O	030	008	18.1O	cps
Zirconium	91X1	92	1O8	92	93	9.9O	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :u wb r :J	S20q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	h24S6	h2046	h2h60	h20S6	SM1S	dDl
qCTb nCE	121 1	7S40S7	717- 21	726h76	71766S	2M16	dDl
qpl r Ccl	07 2	7776	766S	774a	77aa	1M12	dDl
Bwpcmb	1- 7 1	27a1012	26616hS	270Sa02	26S407a	1M1S	dDl
Bwpcmb	1- 0 1	4- hh67a	446ah- -	4441h7a	44- 6a4h	SM0h	dDl
Br pE8&mb	h 1	0S- - 7	0- a- h	0- - 60	02714	2M62	dDl
Bdl b mTG	2Sh 1	622077a	6- 72h76	62- 720a	6201h- 1	1M12	dDl
Bdl b mTG	2Sh 2	2hhaa12	- S616h1	- S76h21	- S- h141	1M17	dDl
Bpmb cCr	a1 1	277h1	- 1244	- 4a44	- S77h	17M26	dDl
5 wob cmb	1Sa 1	4171	4640	46h0	44ha	6M01	dDl
5 wob cmb	1S6 1	h212	h- 47	h70S	h- 06	1M1-	dDl
5 wob cmb	111 1	64- 46	6466h	6- 7h-	642S-	SM46	dDl
5 w8lcmb	4- 1	4264h-	4- h70S	441026	4- 7h- S	1M4h	dDl
5 w8lcmb	44 1	01aah12	0- 01S4-	0- 664S-	0- Sa0a6	1M42	dDl
5 wpenC	12 1	- ah7- - 7	4- 47h42	4662162	4- S1146	aM16	dDl
5 wpenC	12 2	647a4	60h4h	600S0	66040	2M41	dDl
5 G8hpcCr	- 7 1	- - 466ha	4Sa11a-	4672627	4S26a- 7	16M26	dDl
5 G8hpcCr	- 7 2	4Sha4	44a- 0	40- - 6	44- a6	0M21	dDl
5 Gpmb cmb	72 2	- - 7aa1	- - 02h0	- - 7h16	- - 6- 64	SM24	dDl
5 new8T	7h 2	17h42SS	162a1a0	1672S- -	1624aS0	1M0h	dDl
5 nDDr p	6- 2	6SS- 14	6S1- Sh	6SS2a0	6SS6- 0	SM1S	dDl
&El Dpnl cmb	176 1	- - -	- 07	- Sa	- - h	hM14	dDl
&El Dpnl cmb	176 2	170	1h0	17S	16a	17M84	dDl
Fpecmb	164 1	4SS	- 60	2a-	- 7S	10M10	dDl
Fpecmb	164 2	140	16-	1a-	164	11M16	dDl
Hwon8Cmb	16S 1	4- -	4- -	- 7S	4S6	11M46	dDl
Hwon8Cmb	16S 2	270	26-	- 2-	2a1	1- M86	dDl
y n8b cmb	167 1	a67- 60h	hS6SS00	hS- 74h7	ah16410	2M76	dDl
y n8b cmb	167 2	- h0- 770	- ah1a70	- ha7106	- h7S1h0	1M2h	dDl
tCocmb	117 1	67- 7Sah	6626766	64- h202	67- - 642	1M1-	dDl
tCocmb	117 2	h- haSa	h- 127h	h- 17h1	h- 421h	SM72	dDl
tpnC	74 2	11- 7- 0	11- 6- 2	111ha6	11- S71	SM42	dDl
tpnC	76 2	1h074S4	1hhh170	1hh- 2ha	1hah2a6	SM62	dDl
tpnC	70 2	40- h6	4ah- 4	4a2S4	4a10a	1M6S	dDl
KpEDTnC	a- 1	2- 4	264	2- 2	24-	0M20	dDl
Lr wo	2S6 1	h2624	h04h0	h- 6Sa	h4700	2M02	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :uwb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	a106a	a4S21	a21S-	a26- 1	1M40	dDl
Lr wo	2Sa 1	- 027- 6	- a04- 0	- aS4hh	- aS170	1M16	dDl
LdTGmb	6 1	2- 1h26-	2- 40a4S	2- 2a7S0	2- - 1a0S	SM0-	dDl
9 wgCr l mb	24 2	a- a606	a4- a2h	a4h12a	a4- a00	SM02	dDl
9 wCgwCr l r	77 2	4740h1	46402h	477706	47a- 67	1M21	dDl
9 n8Eeor Cmb	h4 1	1S274	1S61-	1S40h	1S44h	1M0-	dDl
9 n8Eeor Cmb	h7 1	102h7	16h44	10711	1027S	1M06	dDl
9 n8Eeor Cmb	h6 1	1ahS7	1hS02	1ah02	1aha-	SM44	dDl
9 n8Eeor Cmb	h0 1	1S401	11S77	1SaS7	1S000	2M02	dDl
9 n8Eeor Cmb	ha 1	20S72	2a401	20074	2007h	2M76	dDl
u r noEb cmb	17S 1	aSS	6h-	67-	016	1SM0S	dDl
u r noEb cmb	17S 2	1hS	1h0	2S0	1ha	4M24	dDl
u cdkr 8	6S 2	421617	41h4ha	424h0S	422S2a	SM67	dDl
NGhl DGhpml	- 1 2	2SS	2- -	260	2- -	14M2h	dDl
NnTwl l cmb	- h 2	2161ah	21- 764	216h76	21770S	SM4-	dDl
. Ghocmb	1S- 1	6- - 06a4	64Sa1a4	6- 60a00	6- 0124a	SM76	dDl
. Ghocmb	1S- 2	- S61776	- S7h- 7S	- S6- 044	- S6177S	SM80	dDl
l dwCocmb	47 1	4121014	42S160S	41746- h	417h- 41	SM10	dDl
l dwCocmb	47 2	14- a26	1- a62h	14S614	141S2-	1M46	dDl
l r 8 Ccmb	a2 1	hSha	h401	h4a1	h- 7S	2M-	dDl
l r 8 Ccmb	00 2	- - 0	- 1S	240	2ha	17M-	dDl
l r 8 Ccmb	0a 2	1S- 7	1SSa	1S21	1S21	1M2	dDl
l 8dnC	2a 1	1040aSSa	1a1aaS0-	1a2ha17h	10haaSaS	2M40	dDl
l 8vr p	1S0 1	2hS122	2ha0a6	2h- 607	2h41h7	1M4a	dDl
l 8vr p	1Sh 1	202472	200S- S	2a41- -	200a02	2M12	dDl
l nocmb	2- 2	42a676h	42a4017	4260- 40	420h744	SM27	dDl
l TpnCTcmb	a6 1	27SS70	26S714	27ah2a	2764hh	2M2S	dDl
l TpnCTcmb	aa 1	22aS741	22aa747	2- a2421	2- 1016h	2M44	dDl
l m8mp	- 4 1	64- 7S6	67h- - S	6700hS	67- 742	1M4	dDl
Ar pecmb	17h 1	ah2a10-	h10160-	h2- S114	h1Shha0	1M06	dDl
Ar pecmb	17h 2	- hS7006	- h221a2	- a- h- 0S	- aah1Sh	1M-	dDl
AGw8mb	2S- 1	26h6- 1	2a27h1	200- 01	2067- 1	2M6	dDl
AGw8mb	2S7 1	66S4h2	6a24a2	60416a	602- a1	1M67	dDl
AdC	11a 1	1hh2	2- 7h	2610	2- 22	1- M-	dDl
AdTwCmb	40 1	h27	1S7S	1S27	1SSS	6M61	dDl
RpwCmb	2- a 1	4S0Sa	42S12	426ha	41aS6	2M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0I	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :u wb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	71 2	64420h	6426Sa	64- 16-	64- - 7S	SM1-	dDI
YTTr pecmb	102 1	210	210	227	21h	2M1h	dDI
YTTr pecmb	102 2	1S6	h4	h4	ha	6M74	dDI
YTTr pecmb	106 1	147S	17- -	14h2	14h2	2M0h	dDI
YTTr pecmb	106 2	1S174	h417	h626	h0- 2	- M11	dDI
YTTpcmb	ah 1	1170ah1-	117Sa4- a	11h7a720	116a1h7h	2M80	dDI
YTTpcmb	ah 2	126- h- 0	12446a2	127242S	127- 6aS	SM00	dDI
ZdCd	66 2	176071	17a407	176h0-	1704SS	SM0S	dDI
ZqpdnCcmb	hS 1	1107	1127	1227	1107	4M26	dDI
ZqpdnCcmb	h1 1	- 7a	- - -	260	- 1h	14M4-	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPmTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r :J	S2Nq . FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb dCcmb	20 2	1hhS	2S76	2120	2S7N	- M4	dDw
qCTb nCE	121 1	1S- -	1127	1S60	1S07	4M2	dDw
qpwr Ccd	07 2	74	6-	64	6S	hM1-	dDw
Bspcmb	1- 7 1	7SN46	71066	72Nh6	71N- 6	1M1N	dDw
Bspcmb	1- 0 1	Nh066	h20S1	h2- - 2	h16SS	1M07	dDw
Br pEPRmb	h 1	21S	21h	246	227	NM41	dDw
Bcwb mTG	2Sh 1	62N464N	620hN4S	0S4166h	67- 7- N7	6M01	dDw
Bcwb mTG	2Sh 2	- 11NN74	- Sh7SN2	- S047N2	- Sh610-	SM02	dDw
Bpmb dCr	N1 1	20N47	- - h27	- 0107	- 2hN2	14M6	dDw
5 sob cmb	1SN 1	42	6-	21	42	7SM3S	dDw
5 sob cmb	1S6 1	- - 06	- 460	4Sh2	- 647	1SM0S	dDw
5 sob cmb	111 1	4SS	- 0N	4hh	426	17M12	dDw
5 sPdcmb	4- 1	42h0S1	44- N0S	44Sh- 2	4- N16N	1M01	dDw
5 sPdcmb	44 1	016N- 0h	0412S60	0- 4h6h2	0- 1SS46	1M0-	dDw
5 spenC	12 1	- N- 0h2-	42- N72S	44h2102	41Nh7- N	0MM0	dDw
5 spenC	12 2	6S671	6- S20	62hN7	62221	2M1h	dDw
5 GPmpdCr	- 7 1	1Nh6hh4	1N4- 1- -	1N11S20	1N7S- N7	2M17	dDw
5 GPmpdCr	- 7 2	12S14	12222	11N22	12S1h	1M60	dDw
5 Gpmb cmb	72 2	4h14	7SN1	4NhN	4h64	2M34	dDw
5 nesPT	7h 2	2104	2S00	211S	212S	2M12	dDw
5 nDDr p	6- 2	27h0	2700	27N0	27N0	SM1h	dDw
&EwDpnwcmb	176 1	- - -	427	260	- 42	2- M20	dDw
&EwDpnwcmb	176 2	1- -	1- -	1N0	171	2SM1N	dDw
Fpecmb	164 1	- N-	227	- 42	- 10	27M12	dDw
Fpecmb	164 2	160	2SS	100	1N1	hM14	dDw
HsonPdCcmb	16S 1	4SN	- SS	4h2	4SS	24M3-	dDw
HsonPdCcmb	16S 2	2NS	- h-	2N-	- 1h	2SM22	dDw
y nPb cmb	167 1	NNhh740	NhN1h77	1S- hNN1S	h426001	NM14	dDw
y nPb cmb	167 2	4S2S7- S	4S6NSS2	- hNh27N	4S27h- S	SM1N	dDw
tCocmb	117 1	67S0h72	6N16217	04h6hh2	6h4S- N6	0M2h	dDw
tCocmb	117 2	h7N77-	h72- S4	h- NS6S	h4h6- h	1M1	dDw
tpnC	74 2	1S4h-	1S206	1Sh4-	1S701	- M2	dDw
tpnC	76 2	1N0S24	1NN606	1N- h21	1N674S	1M2h	dDw
tpnC	70 2	614S	6S70	621N	61- N	1M1	dDw
KpEDTnC	N- 1	226	274	276	247	6M0N	dDw
Lr so	2S6 1	2N- 4	- 12-	- S0-	- S1S	7M1-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUhN	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:usb r:J	S2Nq. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	22Nh	2411	2- Nh	2- 6-	2M06	dDw
Lr so	2SN 1	11SNS	11h07	11627	1176S	- M1S	dDw
LdTGmb	6 1	22N4- 6-	2- N67NS	27- 1N1-	24SSh1h	7M1N	dDw
9 sgOr wcmb	24 2	N- 0S02	N46NS-	N- N466	N4S0N1	SM0-	dDw
9 sOgsOr wr	77 2	40- SN	462- N	46N40	460hN	1M17	dDw
9 nPEeor Omb	h4 1	1S20h	1S02h	1S- 6-	1S470	2M2h	dDw
9 nPEeor Omb	h7 1	16061	10N- 0	10N47	104N1	- M70	dDw
9 nPEeor Omb	h6 1	1NS0h	1Nh02	1N7h0	1N74h	2M42	dDw
9 nPEeor Omb	h0 1	1S646	1Sh21	1SN77	1SNS0	1M-	dDw
9 nPEeor Omb	hN 1	20N0S	2NS12	2NS01	20hN4	SM0	dDw
u r noEb omb	17S 1	6N0	660	0S0	6N0	2M1	dDw
u r noEb omb	17S 2	1h0	2S-	210	2S6	4M7	dDw
u dkr P	6S 2	1Sh0	1140	11N-	1142	- M1	dDw
8 GhwDGhpmw	- 1 2	27S	260	210	244	1SM1	dDw
8 nTswwcmb	- h 2	21N1- h	2106h2	216- 0-	2104S1	SM2	dDw
. Ghocmb	1S- 1	6- N1NSh	67611hh	0- 12010	6071hSN	0M1	dDw
. Ghocmb	1S- 2	- 1224N-	- ShS- - S	- S0hNN1	- Sh0767	SM2	dDw
I dsCocmb	47 1	416676h	4- - 64N0	4N772NS	447200h	NM6	dDw
I dsCocmb	47 2	14- h40	144S07	141116	14- S46	1M0	dDw
I r PCcmb	N2 1	N4	06	117	h2	22M2	dDw
I r PCcmb	00 2	S	-	S	1	10- M1	dDw
I r PCcmb	0N 2	16	21	10	1N	14M0S	dDw
I dPdnC	2N 1	1060- 1- 7	1N22NN26	1NS14476	10h021- h	1M6	dDw
I dPr p	1S0 1	h2	N-	142	1S6	2hMh	dDw
I dPr p	1Sh 1	07	h2	07	N1	11M7	dDw
I nocmb	2- 2	4272642	4- 7h167	42- 7N- 4	42N2740	1M6	dDw
I TpnCTcmb	N6 1	2444h1	26S671	270h12	274- 71	- M4S	dDw
I TpnCTcmb	NN 1	2220NS2	2- 01442	22061- 0	22h10h4	- M1h	dDw
I mPmp	- 4 1	641401	6770h7	646- hS	640NN7	1M2	dDw
Ar pecmb	17h 1	hS617h2	h226h42	1S46- 007	h7N41S-	NMS	dDw
Ar pecmb	17h 2	- h770h6	- h1h- 7-	- N2h171	- hS14- -	1M0	dDw
AGsPPcmb	2S- 1	7SS	4N-	460	4N-	- M7	dDw
AGsPPcmb	2S7 1	1210	1Sh2	1- 27	1211	hM04	dDw
AdC	11N 1	1- 004	14416	14S- -	14S04	2M1S	dDw
AdSCcmb	40 1	07N	h42	0N-	N2N	12MS1	dDw
RpsCcmb	2- N 1	417h4	4S24N	42277	41- 67	2M40	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb OrTu sb r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUhN	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r:J	S2Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	71 2	67S	700	070	661	1- M6h	dDw
YTTr peomb	102 1	160	2SN	107	1N-	12N8-	dDw
YTTr peomb	102 2	110	h4	Nh	1SS	14M0S	dDw
YTTr peomb	106 1	14- -	147S	17SN	1464	2M6h	dDw
YTTr peomb	106 2	hN- 2	1S71S	1S- 1S	1S210	- M41	dDw
YTTpomb	Nh 1	1171N474	12S64h- h	1- 414SS6	12- - 2466	0M11	dDw
YTTpomb	Nh 2	120N001	1260221	12- 46S1	126S1h0	1MM2	dDw
ZdCd	66 2	12h6-	12776	124hh	12602	2N8S	dDw
ZqpdnComb	hS 1	11N-	1S10	1- SN	110S	12M71	dDw
ZqpdnComb	h1 1	27N	242	27N	27-	- MM1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:u sb r:J	S2. qF UMPb

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb cOcmb	20 2	2SS7	21S0	2S17	2S42	2P00	dDw
qCTb nCE	121 1	N60	N07	NSS	N40	4PN7	dDw
qpwr Ccl	07 2	62	61	02	67	. P6	dDw
Bspcmb	1- 7 1	4N. - 1	72S. -	4. 67N	7S220	- P S	dDw
Bspcmb	1- 0 1	N4. N4	N7621	NN. S1	N67S2	2P4-	dDw
Br pEPPmb	. 1	1. .	2S2	1N7	1. 7	4P02	dDw
Bcwb mTG	2S. 1	74S1114	64606N-	6- SN62.	6S7. 142	. P7S	dDw
Bcwb mTG	2S. 2	- S- . S7N	- S. S. 2-	- 11SS4-	- SNSSSN	1P1.	dDw
Bpmb cOr	N1 1	20NS4	- 40. 4	- 0N00	- - 4. 1	17P41	dDw
9 sob cmb	1SN 1	7N	7N	07	64	17PS6	dDw
9 sob cmb	1S6 1	2N10	- 026	4S10	- 72S	10P0N	dDw
9 sob cmb	111 1	- S-	47-	424	- . -	2SP14	dDw
9 sPdcmb	4- 1	4726- N	471. S0	461S26	4771. S	1P11	dDw
9 sPdcmb	44 1	0762411	006- 724	00- 7710	06N0171	1P42	dDw
9 spenC	12 1	- N- 0171	41. 02S6	447- 77S	41626- 6	0P44	dDw
9 spenC	12 2	6S7- -	6- 274	6261N	621- 7	2P2.	dDw
9 GPmpcOr	- 7 1	12S- 664	12266N0	122. . 7.	122S1S-	1P10	dDw
9 GPmpcOr	- 7 2	N4. 4	N66.	NN7-	N602	2PS0	dDw
9 Gpmb cmb	72 2	1N6-	1N6S	1. 1S	1N0N	1P4.	dDw
9 nesPT	7. 2	1000	10NS	10- 0	1067	1P 0	dDw
9 nDDr p	6- 2	24- 0	22- 4	2- N4	2- 71	4P4N	dDw
&EwDpnwcmb	176 1	- 27	- 10	2N-	- SN	0P17	dDw
&EwDpnwcmb	176 2	1. S	1- -	140	170	1NP 1	dDw
Upecmb	164 1	- 7N	- SS	- 60	- 42	1SP6-	dDw
Upecmb	164 2	140	14-	14-	144	1P -	dDw
HsonPCcmb	16S 1	4SS	47S	47S	4- -	6P66	dDw
HsonPCcmb	16S 2	2- -	2- -	- - S	266	21PS2	dDw
h nPb cmb	167 1	06N- . 1.	N. - - 7NN	N. 0NN62	N7- 212-	NP61	dDw
h nPb cmb	167 2	- . 60070	- . N11- S	41S61S.	4S1N- - 2	1P S	dDw
tCocmb	117 1	74N1721	67S4- NN	66- . 4S1	62SN4- 0	1SP2S	dDw
tCocmb	117 2	. 4NN77	. 42NN7	. 0020S	. 76- - 0	1P 2	dDw
tpnC	74 2	7- 2.	7- 0.	7- - 4	7- 40	SP71	dDw
tpnC	76 2	. 07- .	. - . 64	. 2- 2S	. 46SN	2PN2	dDw
tpnC	70 2	- 460	- 6- 4	- . - 4	- 60N	6P4-	dDw
KpEDTnC	N- 1	224	266	26.	27-	1SPSS	dDw
Lr so	2S6 1	1N61	16N-	1022	1076	7P 2	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or TusB r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr :i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:usb r:J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	2S0 1	167S	1447	1411	17S2	NP61	dDw
Lr so	2SN 1	0S0.	02- 4	0S2-	0112	1P74	dDw
LdTGmb	6 1	211N767	2- 62- - 2	2- - 4. 67	2201. 74	7PNN	dDw
y sgOr wcmb	24 2	. 47N2N	. 4. N0.	. 4. 7- 0	. 4N417	SP24	dDw
y sOgsOr wr	77 2	44107	4- N60	4- 71-	4- N72	SP06	dDw
y nPEeor Cmb	. 4 1	1- . 66	14. 27	14766	144N6	- P. 7	dDw
y nPEeor Cmb	. 7 1	1666.	1062N	1067-	10- 10	- P24	dDw
y nPEeor Cmb	. 6 1	1. 140	1. N76	2S167	1. 02-	2P67	dDw
y nPEeor Cmb	. 0 1	1S746	11402	1S66-	1SN. -	4P6-	dDw
y nPEeor Cmb	. N 1	20444	2NSN0	2N764	2NS- 2	2PSS	dDw
u r noEb cmb	17S 1	60-	61-	760	61N	NP66	dDw
u r noEb cmb	17S 2	1. 0	1N-	1. -	1. 1	- P6-	dDw
u cdkr P	6S 2	720	62S	74S	762	NP. N	dDw
8 GhwDGhpmw	- 1 2	1. 2	- - -	2SN	244	- 1P6N	dDw
8 nTswwcmb	- . 2	210S40	216S7.	21- 6SN	217701	SPN2	dDw
F Ghocmb	1S- 1	77N. N. N	6471N. N	66SS74N	6214114	NP0N	dDw
F Ghocmb	1S- 2	- SN0712	- SN1NS6	- 106444	- 117274	1P0S	dDw
I dsCocmb	47 1	- 770070	427- 626	42S1. - 6	4SS444S	. P6N	dDw
I dsCocmb	47 2	1- . . 24	14- 6- S	146- 21	14- 2. 2	2P24	dDw
I r PPCcmb	N2 1	111	121	. 6	11S	11P4N	dDw
I r PPCcmb	00 2	0	-	1S	0	7SPS-	dDw
I r PPCcmb	0N 2	21	1.	2-	21	. P72	dDw
I dPdnC	2N 1	10- 22S20	1060460-	10. 1. 4N.	106- N0- S	1P0S	dDw
I dPr p	1S0 1	1SN	160	1SS	127	2. PS6	dDw
I dPr p	1S. 1	1SN	7S	27	61	6. P. N	dDw
I nocmb	2- 2	47N. - 00	47N0417	40S0761	462N11N	1P4.	dDw
I TpnCTcmb	N6 1	20000.	206627	20601.	200S41	SP2-	dDw
I TpnCTcmb	NN 1	24. N. 6S	244076N	24677. 0	240S0SN	1PS6	dDw
I mPPmp	- 4 1	021. 17	0- 27- 2	04- NS6	0- 2071	1P4.	dDw
Ar pecmb	17. 1	0N7S- . 0	. 2S. - - 7	. 2. - - 6S	N0N4- 64	. P22	dDw
Ar pecmb	17. 2	- . SNS. 4	- N012- 2	4111N. 4	- . 6- 04S	- P20	dDw
AGsPPcmb	2S- 1	- . 2	2. 2	- 07	- 7-	17P1.	dDw
AGsPPcmb	2S7 1	N7S	0. 2	010	0N6	NP7S	dDw
AdC	11N 1	27- 4	117- N	2660	77NS	. 2P4.	dDw
AdSCcmb	40 1	. 07	11. 2	0. 2	. N6	2SP. 2	dDw
5 psCcmb	2- N 1	44SS2	44646	44462	44- 0S	SP07	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPnTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdP:u sb r :J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	71 2	4S-	440	42S	42-	7P16	dDw
YTTr pe omb	102 1	27N	260	242	276	4P.N	dDw
YTTr pe omb	102 2	111	122	176	1- S	10PN4	dDw
YTTr pe omb	106 1	127S	12- -	147S	1- 11	. P2S	dDw
YTTr pe omb	106 2	. 717	. N. -	1S26S	. NN.	- P00	dDw
YTTpomb	N. 1	1SS4S0- .	11N174- 0	110N1. N4	1121202S	. PS7	dDw
YTTpomb	N. 2	127. . 16	1272006	1- S62- 2	1202. 07	2P2N	dDw
ZdCd	66 2	. 6. 0	. 0. S	. 6- -	. 0S0	SPN1	dDw
ZqpdnComb	. S 1	12017	12. . N	1- 117	12. 42	1P7.	dDw
ZqpdnComb	. 1 1	- 160	267S	2007	2N64	. P41	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T8biqC. :MwOICI:J	1
Twip:A:coe p:dOobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	417	- 41	- 00	- 0u	aR06	OI l
d. ioe C. E	121 1	- 07	- 27	47u	- u6	10R47	OI l
dIl p. oO	07 2	4	7	-	4	27RSS	OI l
Bwldpe	1- 7 1	2a07	267S	2aSa	2u47	6RS4	OI l
Bwldpe	1- 0 1	72- 7	721u	7S1u	7170	2R 4	OI l
BplE8dpe	a 1	44	4a	- a	44	11R42	OI l
Bdqe biG	2Sa 1	6106110	620aaa6	7a71a0a	61- 6S- S	2R0-	OI l
Bdqe biG	2Sa 2	2au0- SS	- 1S0- 62	- S61a- a	- S722SS	1Raa	OI l
BIOe q p	u1 1	114- S	1S12a	uua7	1S171	12R4a	OI l
9 wne dpe	1Su 1	1-	21	7S	2u	0SRua	OI l
9 wne dpe	1S6 1	- 7- 4	- 442	- S07	- - 7S	0R24	OI l
9 wne dpe	111 1	- 04	- 60	2a-	- 47	12Ra7	OI l
9 w8Odpe	4- 1	12- 1	1- 11	12- 1	127u	- R60	OI l
9 w8Odpe	44 1	74- 70	76S17	7442-	74a- 2	1R01	OI l
9 wIr C.	12 1	- u- 1SSa	411a2a6	4477Sa6	41- 71- 4	0R77	OI l
9 wIr C.	12 2	7u742	6S610	7a446	7a7- 7	1R07	OI l
9 G8Clq p	- 7 1	0au- 64	0u7u4S	00170a	0u7261	1R01	OI l
9 G8Clq p	- 7 2	7726	7S26	4uSa	712S	0R1u	OI l
9 GIOe dpe	72 2	- aa4	- a00	- u- 4	- a- 7	2R24	OI l
9 Or w8	7a 2	4u-	- u-	42-	4- S	11R01	OI l
9 Ot t pI	6- 2	14a-	176-	14SS	14u6	7R72	OI l
TEI t IOI dpe	176 1	u	42	7S	- -	66R17	OI l
TEI t IOI dpe	176 2	1-	20	10	1a	- 6R07	OI l
UIr dpe	164 1	127	42	7u	07	7uR0a	OI l
UIr dpe	164 2	0	7S	1S	22	1SuR7S	OI l
HwnO8q dpe	16S 1	u-	127	07	a4	2uR 6	OI l
HwnO8q dpe	16S 2	12S	1- 0	110	124	uR61	OI l
h O8e dpe	167 1	u42a4aa	uu27a- S	u0- 4SuS	u66- 10S	2R4S	OI l
h O8e dpe	167 2	- a0766-	- a70- a4	- auaaa0	- a04- 71	SR41	OI l
& ndpe	117 1	62a- - ua	6416776	62u1u27	6- - S7aS	1R1u	OI l
& ndpe	117 2	a- S7- 6	a2S670	a4- 141	a- 1447	1R21	OI l
&C.	74 2	- 2001	- 2406	- - - - -	- 2u6S	1R -	OI l
&C.	76 2	7aSa1S	6SSu4-	6S44- 1	7au02u	1R10	OI l
&C.	70 2	171u1	1747-	14u72	17162	1Rau	OI l
KIEt iC.	u- 1	264	264	2- 4	274	6Rd-	OI l
Lpwn	2S6 1	2747	2- 47	240u	2476	4R17	OI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	Tq8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMq8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	2S- 4	1a2u	21ua	2S7S	6R41	OI
Lpwn	2Su 1	a072	a770	a6S0	a6- a	1RS7	OI
LqiGdpe	6 1	2161uS1	22022u1	22- 6- aS	222- 4a1	2R7-	OI
y wg. pl dpe	24 2	a60	1142	u- -	au1	17R0a	OI
y w. gw. pl p	77 2	2u24	2a44	2070	2u41	- R -	OI
y C8Er np. be	a4 1	17S	207	- 27	27S	- 6RS6	OI
y C8Er np. be	a7 1	2SS	110	27S	1ua	- 7R66	OI
y C8Er np. be	a6 1	227	410	242	2a4	- 6RS6	OI
y C8Er np. be	a0 1	1Su	110	07	1SS	22RS7	OI
y C8Er np. be	au 1	2SS	- 27	- 7S	2a2	20R77	OI
mpOnEe dpe	17S 1	0-	0-	7-	60	10R 2	OI
mpOnEe dpe	17S 2	2-	- S	- -	2a	10R6-	OI
mqOkp8	6S 2	1- 1S	12uS	1- S0	12aa	1R20	OI
NGOI t GOIbI	- 1 2	242	207	242	27-	0R61	OI
NOiwI l dpe	- a 2	1- - S0	1- 717	1- - 2-	1- - u2	SRu0	OI
F GOndpe	1S- 1	6- - S1S2	6- 76u2S	62aSS6u	6- 2766-	SR7-	OI
F GOndpe	1S- 2	- S4aa16	- SS6212	- Saa- a0	- S71u42	1R7-	OI
DOw. ndpe	47 1	4S- 1720	41- S- - 1	41Sa2- 0	4SaS- 67	1R20	OI
DOw. ndpe	47 2	1421u-	14S- 27	144004	142420	1R70	OI
Dp8p. dpe	u2 1	6	74	- S	6	04SR26	OI
Dp8p. dpe	00 2	S	S	0	2	10- R21	OI
Dp8p. dpe	0u 2	1a	1a	1-	10	2SRu	OI
Dq8qC.	2u 1	2422u-	2- a100	2- 0- 67	2- a6Su	1RS4	OI
Dq8vpI	1S0 1	7u	1Su	1Su	a2	- 1R7S	OI
Dq8vpI	1Sa 1	27	- -	7S	- 6	- 7R27	OI
DOndpe	2- 2	0- 02u	02401	0- 062	0- - 2S	1RSS	OI
DiIC. idpe	u6 1	uSu	0a2	07S	0u-	- Ru4	OI
DiIC. idpe	uu 1	- 7- 4	- 6u4	- 726	- 7u1	2R4a	OI
Db8bI	- 4 1	2a21a7	2a260u	2u6- - 1	2aS4S1	1R22	OI
cpIr dpe	17a 1	ua64aSa	ua7647a	uu0u21u	ua- - 1a7	SR74	OI
cpIr dpe	17a 2	- u2a0- 7	- u2172-	- uu240-	- u44700	SRu6	OI
cGw8dpe	2S- 1	- - -	2a2	- 10	- 14	6R6u	OI
cGw8dpe	2S7 1	6u-	607	7Su	622	17Ru0	OI
cq	11u 1	267S	2742	27a2	27a7	2RSa	OI
cqiw. dpe	40 1	1142	1- u-	1227	127S	aRu2	OI
5 Iw. dpe	2- u 1	1SS	127	60	a0	- SR1S	OI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t plwiCI:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T 8piqC. :MwOCI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	6S	0S	uS	0S	14R2a	Qt l
Yiiplr dpe	102 1	42	a2	42	7u	4aR4u	Qt l
Yiiplr dpe	102 2	S	2u	61	- S	1S- R26	Qt l
Yiiplr dpe	106 1	12Su	1107	1127	110S	- R7a	Qt l
Yiiplr dpe	106 2	a006	1S71S	1S- 74	1S21-	- R0a	Qt l
Yiildpe	ua 1	11- a0066	12SS6016	111a012a	117- - u0S	- R36	Qt l
Yiildpe	ua 2	12467a-	1271S0u	126471u	1274S6-	SR04	Qt l
Zq O	66 2	2440	2- 0S	24u4	24- 4	2R u	Qt l
ZdOC. dpe	aS 1	7SS	7a2	427	7S6	16R71	Qt l
ZdOC. dpe	a1 1	160	07	127	122	- 0R77	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	1S2	1S2	1S2	1S2	SN8S	dDl
q. Tb C. h	121:1	42	60	42	-S	2NNN0	dDl
qpl r . cl	0-:2	6	2	7	4	-6N00	dDl
Bwpcmb	17-:1	42	-N	-S	-S	16N06	dDl
Bwpcmb	170:1	-S	N7	-S	61	71MS	dDl
Br ph8&mb	:1	77	44	21	72	74N0S	dDl
Bdl b mTE	2S :1	640 6N7	6610 42	6-1S4N6	6-76S70	1M11	dDl
Bdl b mTE	2S :2	724 N76	7224067	71270S7	71 474	2N8	dDl
BpCb c r	N1:1	-71N	4 47	-S74	-S N	7NN4	dDl
Fwob cmb	1SN:1	-4	0-	77	-4	7NN46	dDl
Fwob cmb	1S6:1	76S1	7N60	7674	70S1	7M7	dDl
Fwob cmb	111:1	740	7-1	7-0	7-2	1N70	dDl
Fw8lcmb	47:1	2-	24-	270	240	4N76	dDl
Fw8lcmb	44:1	7- 26	767 S	7-04-	76S2S	SM2	dDl
FwpeC.	12:1	244-711	242N261	247S217	2474- -	SN7N	dDl
FwpeC.	12:2	2 664	2 S 6	2 -S-	2 422	1N8S	dDl
FE8Cpc r	7-:1	462- 6	44NN-7	47N120	44 N-N	2N07	dDl
FE8Cpc r	7-:2	7174	71 2	2-SS	2 42	17N84	dDl
FEpCb cmb	-2:2	1140	121S	N7	1117	1SMS	dDl
FCew8T	- :2	70	27	70	72	27MS	dDl
FCDDr p	67:2	6N7	667	007	0S0	NN2	dDl
&hl DpCl cmb	1-6:1	10	N	S	N	1SSN82	dDl
&hl DpCl cmb	1-6:2	7	S	7	2	N6N0S	dDl
Upecmb	164:1	0-	-N	-N	64	1-N86	dDl
Upecmb	164:2	27	77	70	71	22N71	dDl
GwoC8c mb	16S:1	142	1SS	N7	1SN	20N07	dDl
GwoC8c mb	16S:2	170	S	147	127	27M6	dDl
HC8b cmb	16-:1	S-6 11	716-61	SN20-N	1-2S00	1M6	dDl
HC8b cmb	16-:2	42N16N2	4166NS0	7 -40	414 74-	7M42	dDl
t. ocmb	11-:1	6622 72	6N-0-64	66071S2	6010N66	1NN4	dDl
t. ocmb	11-:2	1S7-S72	1S116-S	-N7S2	1SS1661	7M7	dDl
tpC.	-4:2	7N	761	7-6	76	4NN-	dDl
tpC.	-6:2	2 N4	2N-S	2 10	2 10	2N2	dDl
tpC.	-0:2	N7	1S6	1S6	N	17N80	dDl
KphDTC.	N7:1	2 S	241	2-0	267	N44	dDl
Lr wo	2S6:1	077	6N	622	6N2	NN21	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	677	6S6	644	62N	7M1	dDl
Lr wo	2SN:1	2 N4	204-	2077	2N21	-N81	dDl
LcTEcmb	6:1	240766N	24S1-2S	27-N67	2411206	2M41	dDl
9 wg. r l cmb	24:2	1SN	1SS	60	2	24N8-	dDl
9 w. gw. r l r	- - :2	NS	-0	00	01	10M04	dDl
9 C8heor . mb	4:1	12-	2SS	2SN	10N	2-M12	dDl
9 C8heor . mb	- :1	77	-S	-S	44	21M06	dDl
9 C8heor . mb	6:1	1SN	1-S	1SN	122	1 M0N	dDl
9 C8heor . mb	0:1	10	2	10	42	1S7M1	dDl
9 C8heor . mb	N:1	60	60	60	60	SM8S	dDl
u r Cohb cmb	1-S:1	0	0	S	4	N6M0S	dDl
u r Cohb cmb	1-S:2	7	S	S	1	107M21	dDl
u cdkr 8	6S:2	-7	-7	40	-1	0M12	dDl
3 ECl DECpm	71:2	1 2	20-	160	211	26MN0	dDl
3 CTWl cmb	7 :2	11SNS	1S -4	1S07N	1S 24	1MN	dDl
y ECocmb	1S7:1	60S6614	6NN62 -	6044SNS	600N 0	1M4S	dDl
y ECocmb	1S7:2	77NN666	7200NS7	711 4S2	7261 -0	4M1-	dDl
l dw. ocmb	4- :1	472 6-2	44-0077	4761N74	47N7S07	1M12	dDl
l dw. ocmb	4- :2	1- -264	1-11N1	144S1-	1-S1-7	7M0	dDl
l r 8 . cmb	N2:1	:47	:	:1	:1N	:12-M6	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1S	14	1	14	71M46	dDl
l c8dC.	2N:1	1N0N6N	1N244S	1N1141	1N7N10	1M4	dDl
l c8vr p	1S0:1	142	142	0-	11	72M27	dDl
l c8vr p	1S :1	42	N7	2	02	70M8	dDl
l Cocmb	27:2	2N42N	2N04-	2 664	2N 46	2M22	dDl
l TpC. Tcmb	N6:1	4SN	-0-	4-S	40N	1NM1-	dDl
l TpC. Tcmb	NN:1	1142	12SN	0N7	1S4-	21MN	dDl
l m8mp	74:1	7SSS7-	2 N6 0	7S7044	7SSN2-	SMN0	dDl
Ar pecmb	1- :1	700-72	46-S21	- -1200	46461S	SM2	dDl
Ar pecmb	1- :2	422 4-1	4S1N662	7 S160S	4S4 2N	4M1S	dDl
AEw8cmb	2S7:1	277	72-	2N7	2N1	16M76	dDl
AEw8cmb	2S- :1	-42	-60	02-	611	16M20	dDl
Ac	11N:1	1177	11-N	1N6N	17N0	7SM8N	dDl
AcTw. cmb	40:1	10-	142	1 2	16	1-M82	dDl
5 pw. cmb	27N:1	42	2-	2-	71	71MS	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Vw. wocmb	-1:2	1S	10	1S	12	71MS	dDl
YTTr pecmb	102:1	77	-S	0-	-7	7 M04	dDl
YTTr pecmb	102:2	22	77	-6	70	4-MM4	dDl
YTTr pecmb	106:1	1277	11 2	11N7	12S7	2M27	dDl
YTTr pecmb	106:2	11SS-	11S 4	1S2-4	1S0N4	4M2N	dDl
YTTpcmb	N :1	12212-1N	12402216	12407614	127N6116	1M21	dDl
YTTpcmb	N :2	144N116	14S0-NS	120-4S	1700S7-	6M6	dDl
Zc d	66:2	117	117	177	12S	M02	dDl
ZqpdC. cmb	S:1	7 2	-2-	4N7	460	14M62	dDl
ZqpdC. cmb	1:1	1SS	0-	N7	N6	14M0N	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 2SB:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l T RdNpamI e pas	S77LF: UMd

3l l e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9 pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-0-	161-	1 --	101-	12M1u	dDP
q. Tde C. h	121J1	16 u6	1072u	104 -	1020S	1M1S	dDP
qlPp. cd	0-J2	2--	260	242	2--	4M1	dDP
Bl ldbe	17-J1	1uS12	1 214	1 122	1u0u7	7M6	dDP
Bl ldbe	170J1	72264	776S1	77241	77S7-	2M3	dDP
BplhNbe	J1	22-6	224S	216S	221	2M12	dDP
BdPe bTE	2S J1	6-707-	64-u7	6-4u14u	6-14676	SM0-	dDP
BdPe bTE	2S J2	7227 0-	7102 S7	772--4u	724SuSu	2M4S	dDP
BlCe c p	u1J1	44S1	44-	4474	4471	SM66	dDP
Fl oe dbe	1SuJ1	27u	22-	710	26S	1 M14	dDP
Fl oe dbe	1S6J1	41-	77-1	41u4	7u u	12M10	dDP
Fl oe dbe	111J1	2u12	264	24u4	264	6M1	dDP
Fl Ndbe	47J1	1277	124 6	121u6	1274S	1M26	dDP
Fl Ndbe	44J1	22 S	272u47	272Su2	271741	SM6	dDP
Fl lr C.	12J1	27472S1	27-76 4	27--0-2	27-Suu2	SM2	dDP
Fl lr C.	12J2	2 221	2u6S7	2uS-2	2u626	2M34	dDP
FENCl c p	7-J1	7u42 1	701112	766122	707u42	2M1	dDP
FENCl c p	7-J2	2010	26SS	20-	26 2	7M3-	dDP
FElCe dbe	-2J2	626u	62Su	6-S-	6720	2M4u	dDP
FCrl NT	- J2	4u44	4uu1	-S0u	4 74	2M4	dDP
FCDDpl	67J2	u07	uu47	11S	uu 0	2M1-	dDP
&hPDlCPtbe	1-6J1	77	10	u	1	6-M10	dDP
&hPDlCPtbe	1-6J2	7	1S	S	4	114M0S	dDP
Ulr dbe	164J1	42	2	42	-u	4 M4u	dDP
Ulr dbe	164J2	4S	77	2S	71	72M07	dDP
Gl oCNl dbe	16SJ1	60	42	u7	64	72M17	dDP
Gl oCNl dbe	16SJ2	120	11S	147	120	17M16	dDP
HCNe dbe	16-J1	441406	701011	1712uu	714u2-	1M0-	dDP
HCNe dbe	16-J2	4121S-7	41-4471	427u 7	4101404	1M46	dDP
t. odbe	11-J1	6014724	6u7u021	60 --11	60u2u-2	SM7	dDP
t. odbe	11-J2	062 1	uu2S1	1SS41u7	u --u	1M41	dDP
tlC.	-4J2	2426S	24u00	2-44S	24u-	2M70	dDP
tlC.	-6J2	47u67S	4461-6	4-76u2	4461-6	1M3	dDP
tlC.	-0J2	1S 20	1S -4	117	11S 7	2M7	dDP
KlhDTC.	u7J1	2u0	274	260	267	1SM77	dDP
Lpl o	2S6J1	u6-7	u60-	u-0S	u677	SM0-	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl RdNpamle pas	S77LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0041	0204	0-S2	0-S6	7M11	dDP
Lpl o	2SuJ1	74446	74-7-	7417-	74702	SM01	dDP
LdEdbe	6J1	24Su 2u	2427272	240SS0	2474SuS	1M71	dDP
9 l g. pPdbe	24J2	1S7416	1S7-60	1S-uu4	1S42u	1M77	dDP
9 l . gl . pPp	- - J2	144S	1-6S	1070	1-0	M4-	dDP
9 CNr op. be	4J1	10 -4	1u6uS	10u -	1u106	2M4S	dDP
9 CNr op. be	-J1	216-1	22220	22011	221 6	2M7	dDP
9 CNr op. be	6J1	24217	2-S4u	2-1 S	24u10	2M17	dDP
9 CNr op. be	0J1	12uu1	14441	17072	176u-	-M01	dDP
9 CNr op. be	uJ1	7-S0u	7-2u0	7- 22	7-42	1M24	dDP
mpCohe dbe	1-SJ1	17	17	17	17	SM3S	dDP
mpCohe dbe	1-SJ2	7	7	S	2	u6M0S	dDP
mdkpN	6SJ2	1440	167S	1667	1-uS	0M7u	dDP
3ECPDECIbP	71J2	2Su	277	2Su	210	6M66	dDP
3CTl PPdbe	7 J2	020SS	042SS	0-746	04Su2	1M0	dDP
y ECodbe	1S7J1	6uS2 24	6u-2014	6u260-S	6u20467	SM76	dDP
y ECodbe	1S7J2	71uu066	721467-	772uu 7	7244S u	2M7S	dDP
: dl . odbe	4-J1	47- - uu7	4-S62-1	470224u	4411461	1M10	dDP
: dl . odbe	4-J2	14u41u	14uu07	1-40S4	1-S66-	2M77	dDP
: pNp. dbe	u2J1	u20	u 0	u S	u02	4M41	dDP
: pNp. dbe	00J2	4S	77	10	7S	4SM3-	dDP
: pNp. dbe	0uJ2	1S	11	1S1	11S	uM22	dDP
: dNdC.	2uJ1	24-0u-	27002u	24S-40	2417-4	1M0	dDP
: dNpl	1S0J1	1S4uu	11-14	12S22	11741	6M1	dDP
: dNpl	1S J1	1S S-	1Su46	1S001	1Su41	SM02	dDP
: Codbe	27J2	2S0 06	212762	2S 707	2S S4	1M30	dDP
: TC. Tdbe	u6J1	72SS	7S2-	7S-S	7S 2	7M36	dDP
: TC. Tdbe	uuJ1	27S2u	22 S7	22-44	22u2-	1M1S	dDP
: bNbl	74J1	7S7u6	7S0-00	7S4 00	7S-404	SM02	dDP
Apl r dbe	1- J1	41 4-4	4S0727	414141	41767	SM36	dDP
Apl r dbe	1- J2	7 0-u77	4S10111	41u -27	4S6Su22	2M0	dDP
AEl NNdbe	2S7J1	70	0u0	0	S1	1M32	dDP
AEl NNdbe	2S-J1	274- -	22012	27-uS	2724	2M32	dDP
Ac	11uJ1	17-S	1Su7	12-S	122u	1SM0	dDP
AdT. dbe	40J1	60-2	6- 7	62-2	6-72	7M1	dDP
5 ll . dbe	27uJ1	727u4	72606	7710u	72046	1M27	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl Rdpaml e pas	S77LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	007	1SSu4	1S410	1SS 1	7M1	dDP
YTpIr dbe	102J1	77	60	1SS	60	-SM3S	dDP
YTpIr dbe	102J2	2u	2u	44	77	2uM0	dDP
YTpIr dbe	106J1	17u7	170-	17-u	1702	SM7	dDP
YTpIr dbe	106J2	1S-u2	1S 72	1Su00	1S0 0	1M04	dDP
YTTdbe	u J1	122Su01	12-46S14	127u0710	127uS6u7	1M76	dDP
YTTdbe	u J2	172727	17S042u	17 6 1	1742-2	7M6	dDP
Zc d	66J2	261S	206S	2-uS	26-S	7M04	dDP
ZddC. dbe	SJ1	17	1-S 2	14066	1461	7M4	dDP
ZddC. dbe	1J1	7442	7426	7274	7760	7M4	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r:	S- 4q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	614N- 2	6Shh0J	611026	61210N	SM4S	dDw
qCTb nCE	12171	42Sh	4J- 4	44h-	4412	4NS1	dDw
qpwr Ccd	0J72	42h2	4Sh0	4211	42SS	2M-	dDw
Bspcmb	1- J71	40JS12	404- hS	40hhS0	4064- 0	SM0-	dDw
Bspcmb	1- 071	N2hS0J	N- SS6J	N46- 1-	N- J1J1	1M16	dDw
Br pEPmb	h71	2J62	2J60	24h4	2J41	1M62	dDw
Bcwb mTG	2Sh71	6N- 0JS6	606JN- 6	60ShN41	6001S61	SM1J	dDw
Bcwb mTG	2Sh72	- 1hhSS1	- 1h41J2	- - 126h6	- 2- J2N-	2NS0	dDw
Bpmb cCr	N171	0- 44	N21h	N061	N1SN	NNM2	dDw
5 sob cmb	1SN71	2J4	- 60	2S4	20J	- SM20	dDw
5 sob cmb	1S671	4- J1	44N4	4226	4- J4	2M10	dDw
5 sob cmb	11171	2JJ0	2- 2J	2406	24J-	4NMS	dDw
5 sPlcmb	4- 71	- 16- hh	- 2S2- 0	- 2J1S-	- 2SJ0h	1M16	dDw
5 sPlcmb	4471	J- hS- 2S	JJ- 4- 1N	J- 4S0- 6	J4210h1	1MMJ	dDw
5 spenC	1271	6- S- 0J0	60J0002	6NSN402	662- - - 4	4M2S	dDw
5 spenC	1272	NJ- 6J	N4Jh-	N41S0	N46NN	SM0J	dDw
5 GPnpcCr	- J71	h6h6S04	12NN6J14	1J- SNN- 6	126- S40J	22M2h	dDw
5 GPnpcCr	- J72	14SJ2S	1J2244	1JN1SN	1JS2h1	JM16	dDw
5 Gpmb cmb	J272	- 0- 4h	- 066S	- 6061	- 02J6	1M4-	dDw
5 nesPT	Jh72	4NS- 0	4h2NJ	4NSh4	4N402	1M4J	dDw
5 nDDr p	6- 72	1064S6	1006hN	102- Sh	10J401	1M0S	dDw
&EwDpnwcmb	1J671	60h6J	60h4h	0SN22	6Nh12	2M4S	dDw
&EwDpnwcmb	1J672	2NJ- 0	2NJN4	2NN1N	2N646	SM2	dDw
Fpecmb	16471	J- hJ2	J6NNS	J4NN1	JJ2- N	2M01	dDw
Fpecmb	16472	2- 1N0	22- 02	224S2	226J4	2MS4	dDw
HsonPCcmb	16S71	6S00-	6- hh6	616- J	621- J	2M6h	dDw
HsonPCcmb	16S72	2h- N6	2h- 06	2hJ6h	2h444	SM10	dDw
y nPb cmb	16J71	h6hJ122	h4N0hSN	h- 6N06-	hJ10264	1M04	dDw
y nPb cmb	16J72	416S2- 1	41- - h6J	4- 1- 012	42S26- 6	2M1	dDw
tCocmb	11J71	0S240JJ	6h6h10J	6h22NJJ	6h02262	SM0-	dDw
tCocmb	11J72	hhS6S1	h66JJS	1S26SJJ	hh44S2	- NS1	dDw
tpnC	J472	- 1- 220J	- 11- 1h-	- SJ2Sh2	- Shh1N0	1MJ	dDw
tpnC	J672	J6SNJSSS	JJJN0S14	JJ162621	JJ611J4J	SMM-	dDw
tpnC	J072	14216N-	14- 2602	14SS64-	141N- - -	1MJ	dDw
KpEDTnC	N- 71	- S2	- - J	- 20	- 22	JM2h	dDw
Lr so	2S671	40N40J	406420	4NNJJ-	4N11J2	1MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP usb r:	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- hhNSS	4S1S- S	4S206-	4S11hN	SM10	dDw
Lr so	2SN71	1NhSh- -	1Nh- 0- J	1h124- N	1NhhS- J	SM02	dDw
LdTGmb	671	244h10S	2- h622S	2422J1-	24226- 4	1NSh	dDw
9 sgOr wcmb	2472	N1001S	NSh140	N1114-	N12660	SMJ	dDw
9 sOgsOr wr	JJ72	N4211-	N2h04h	N100N2	N2hNN1	1M40	dDw
9 nPEeor Omb	h471	264J1	20S44	20244	26h1-	1M-	dDw
9 nPEeor Omb	hJ71	J26N	JJh-	J026	JJ2h	4M20	dDw
9 nPEeor Omb	h671	hh12	hNhJ	1S101	hhh-	1M4	dDw
9 nPEeor Omb	h071	- - 60	- 606	- 442	- 4hJ	4M0S	dDw
9 nPEeor Omb	hN71	hS0N	hSS-	h2S-	hShJ	1M1	dDw
u r noEb omb	1JS71	1146N6	11J- JN	116- - -	11J4Jh	SM02	dDw
u r noEb omb	1JS72	- 62- 6	- 66JS	- 6620	- 6JS4	SM04	dDw
u dkr P	6S72	2J406	2J- 26	240hN	2J2SS	1M41	dDw
8 GhwDGhpmw	- 172	N- 6h	0J00	N2h4	NSNS	JM41	dDw
8 nTswwcmb	- h72	42h- N2	42JJS2	421h6h	42J61N	SMM0	dDw
. Ghocmb	1S- 71	6h0Nhh4	6N- 2- 40	6N- 12J1	6NNSN64	1M24	dDw
. Ghocmb	1S- 72	- 1J10N-	- 16h42J	- - - N2SJ	- 21hNS4	- M2S	dDw
I dsCocmb	4J71	46JSSh-	4Jh4JJ0	44N4hS4	4J06J1N	1MM4	dDw
I dsCocmb	4J72	1JS6N1	1JS1J6	1J61hN	1J2- 4J	2M2S	dDw
I r P Ccmb	N271	244	1NJ	1Nh	2S6	1JM10	dDw
I r P Ccmb	0072	1JS	120	1J-	14-	1SM14	dDw
I r P Ccmb	0N72	11-	1S-	112	1Sh	JMS4	dDw
I dPdnC	2N71	14J666JN	140JN- 1h	14N2S6N2	1401J22S	SM1S	dDw
I dPr p	1S071	2N10	20Jh	20Sh	2061	1M16	dDw
I dPr p	1Sh71	2410	2- N4	20- 4	2J11	0M6h	dDw
I nocmb	2- 72	6N1- 4	6N646	6NS6N	6N2N-	SM46	dDw
I TpnCTcmb	N671	2h- SJ4	2NN66S	2NNN66	2hS1h-	SMMJ	dDw
I TpnCTcmb	NN71	261Jh26	2624hSS	26J2S10	26- Sh4N	SM01	dDw
I mPmp	- 471	- - 21h6	- 2014-	- 2S0- J	- 266h1	1M06	dDw
Ar pecmb	1Jh71	1SSNSNJ4	hN- 04NS	h020- hN	hNN1h1S	1MM-	dDw
Ar pecmb	1Jh72	4S- 102N	4Sh4J06	42NhhSh	41- N0- N	- M2J	dDw
AGsPPcmb	2S- 71	24Sh	2- 60	2- - 4	2- 0S	1Mh	dDw
AGsPPcmb	2SJ71	J- S1	J6S1	JJ4-	J4N2	2M1S	dDw
AdC	11N71	N6hJ	N6J-	h14J	NN- 1	- MSh	dDw
AdSCcmb	4071	hNJ6-	1SSN21	1S1NJ2	1SS412	1M60	dDw
RpsCcmb	2- N71	0016S	0N1N-	0h020	0N- J6	1M6J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r :	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0SSNS	6h10-	6N0- 1	6h- 2N	SM1h	dDw
YTTr pe omb	10271	1JN- J	1JNJ2	1616S	1Jh4h	1M1J	dDw
YTTr pe omb	10272	046h	0014	00SN	06- S	1MM-	dDw
YTTr pe omb	10671	11014	12SS6	12214	11h0N	2M1S	dDw
YTTr pe omb	10672	16S6S	1J426	161h4	1JNh-	2MIN	dDw
YTTpomb	Nh71	1- S6- N16	1- 2- 2- 4N	1- S1J2- 1	1- 1S- 0hN	SMM0	dDw
YTTpomb	Nh72	1- hN- 04	144h106	1JS1J21	144h6hS	- M6	dDw
ZdCd	6672	h1104	hS0J2	NNNh6	hS204	1M4	dDw
ZqpdnComb	hS71	6- - S-	6- N- N	6J4h6	6421-	1M0N	dDw
ZqpdnComb	h171	141hh	141h1	1- h24	141SJ	1M1	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tusb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6- S- 1N	6- - 40h	61h020	620N41	1M1J	dDw
qCTb nCE	12171	4626	4Jh-	4- N4	4J- 4	2NMh	dDw
qpwr Ccd	0J72	42SN	4410	42- S	42NJ	2M0N	dDw
Bspcmb	1- J71	4N2J4S	400- h4	40h6JS	40hN61	SM14	dDw
Bspcmb	1- 071	N41- J6	N4h1h0	NJh0hS	NJS114	1N8h	dDw
Br pEPmb	h71	2JS6	2Jh2	2J22	2J4S	1NMS	dDw
Bcwb mTG	2Sh71	6N0h2J-	6hNh446	6NJ1ShS	6hS6Jh6	1N86	dDw
Bcwb mTG	2Sh72	- 46- 11-	- SJ02hJ	- - 20h- -	- 2N20NS	6M2h	dDw
Bpmb cCr	N171	04NJ	NSN6	NJ1h	NS- S	6M40	dDw
5 sob cmb	1SN71	246	2JN	2J4	2J-	2M12	dDw
5 sob cmb	1S671	4J26	4NJh	42Jh	4J4N	6M01	dDw
5 sob cmb	11171	2422	24h0	2- N2	24- 4	2M41	dDw
5 sPlcmb	4- 71	- 2- N0J	- 24062	- 26061	- 2J1- -	SM4J	dDw
5 sPlcmb	4471	JJ426- N	J- 0N1h1	JJSSh24	J40- h1N	1M16	dDw
5 spenC	1271	66- SNS4	6h0NNh4	0S22hN2	6N00J6S	- M12	dDw
5 spenC	1272	NhS0N	N000h	N06J4	NN10S	SMNh	dDw
5 GPmpcCr	- J71	10SJN04-	2S0- 604N	220h6N0J	2S1h04JJ	14Mh	dDw
5 GPmpcCr	- J72	1hS- 64	1h4- 60	2SSh0h	1hJ2- 0	2M0J	dDw
5 Gpmb cmb	J272	- N44N	- 0h0S	- 6hJ4	- 00h1	2N82	dDw
5 nesPT	Jh72	JSh41	J141h	4h- Jh	JSJ0-	2M1-	dDw
5 nDDr p	6- 72	1006hJ	1NSS01	10611-	100hJh	1M12	dDw
&EwDpnwcmb	1J671	6N2Sh	6h40-	6N242	6N641	1N8J	dDw
&EwDpnwcmb	1J672	- S1N1	- SJh2	2hJh-	- S122	1M00	dDw
Fpecmb	16471	J40- h	J4- 4J	J64N0	JJ1hS	2N80	dDw
Fpecmb	16472	2- NNJ	2- J0N	220- 6	2- 4SS	2M14	dDw
HsonPCcmb	16S71	Jh020	62h16	61h62	61J- J	2M06	dDw
HsonPCcmb	16S72	- S22N	- S- 02	2h4Jh	- SS2S	1M0-	dDw
y nPb cmb	16J71	h0- 2JN1	h0N12S1	hh- J062	hN16J1J	1N8N	dDw
y nPb cmb	16J72	4- - - NN-	- NhS6J6	4- SJ4- 0	41066Jh	JM14	dDw
tCocmb	11J71	0- 16- 0N	02S- 6- -	01NNS60	02- 6S26	SM10	dDw
tCocmb	11J72	1S2N- S4	h2641N	1S16J00	hhS4- -	JM0-	dDw
tpnC	J472	- 12- NJJ	- 166N60	- 1Sh106	- 1- - 2hh	SM16	dDw
tpnC	J672	J0026- 26	J606NJ0-	J6122S- 2	J6N02- 11	1M12	dDw
tpnC	J072	14h66h2	1404004	14- - 4J0	146N- S0	2M1h	dDw
KpEDTnC	N- 71	- - h	- 21	- 42	- - 4	- Mh	dDw
Lr so	2S671	4N0604	4Nh004	4h1h4-	4Nh0h0	SM44	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	4S0J2J	41Sh- 6	411S1N	4ShN26	SM4h	dDw
Lr so	2SN71	1h2NJ01	1h- S266	1h22J12	1h20116	SM21	dDw
LdTGmb	671	2J2hh- J	2JNSh6J	2J66SJ6	2JJNhN6	1N8-	dDw
9 sgOr wcmb	2472	N4SS6J	N4SS- h	N14J01	N- 1JJN	1M00	dDw
9 sOgsOr wr	JJ72	N4NJJ1	N46N4h	N- 0NhJ	N444- 2	SM6N	dDw
9 nPEeor Omb	h471	26h6S	20SS2	206N6	20216	1M1S	dDw
9 nPEeor Omb	hJ71	646S	Jh1S	Jh06	611J	4M11	dDw
9 nPEeor Omb	h671	1S1S4	1S246	1SJ01	1S- S0	2M12	dDw
9 nPEeor Omb	h071	- NSh	- 0S1	- 460	- 6Jh	4M00	dDw
9 nPEeor Omb	hN71	h4J-	h62h	hJ4J	hJ42	SM12	dDw
u r noEb omb	1JS71	11N2Jh	11N2J0	11N4hh	11N- - N	SM12	dDw
u r noEb omb	1JS72	- 0J- -	- 0N- 4	- 0242	- 0J- 6	SM0h	dDw
u dkr P	6S72	2Jh04	2641N	2J600	26S2-	1M4-	dDw
8 GhwDGhpmw	- 172	N444	N- N6	0h61	N264	- M1h	dDw
8 nTswwcmb	- h72	4- 4201	4- 06S4	424SS-	4- 1hJh	1M64	dDw
. Ghocmb	1S- 71	0112204	02- 0406	0- JN60-	02- 6141	1M0S	dDw
. Ghocmb	1S- 72	- - 0J- N1	- S4J1- N	- - hS- N1	- 20S- SS	JM10	dDw
I dsCocmb	4J71	40442h4	40S0- N2	40h6J4J	404h4S0	SM14	dDw
I dsCocmb	4J72	1J0- 40	142N- -	1J4J6h	1J1JN-	JN8N	dDw
I r P Comb	N271	1N0	2SJ	221	2SJ	NM2J	dDw
I r P Comb	0072	120	1JS	140	141	NM14	dDw
I r P Comb	0N72	h6	114	h4	1S1	1SM10	dDw
I dPdnC	2N71	140hNh1-	1JS- N600	1464- 24S	14N26h4-	1M4	dDw
I dPr p	1S071	2N10	20Sh	2NSS	200J	2M1S	dDw
I dPr p	1Sh71	2NN4	202J	2NN4	2N- 1	- M4-	dDw
I nocmb	2- 72	6hJS0	6h060	6NS2J	6h1SS	1M6	dDw
I TpnCTcmb	N671	2h4J- J	2h2JJ4	2h4h16	2h4SS2	SM4-	dDw
I TpnCTcmb	NN71	26N0N61	26N464S	26h66- N	26Nh01-	SM4-	dDw
I mPmp	- 471	- 2NSNh	- 22600	- 21NhJ	- 2422S	1N84	dDw
Ar pecmb	1Jh71	hN001- J	1S4ShJJh	hN- NS24	1SS41J0-	- M1N	dDw
Ar pecmb	1Jh72	42hN260	- N0- h6h	4240N46	414SS20	JN0S	dDw
AGsPbmb	2S- 71	2J2J	21N4	202J	240N	11N86	dDw
AGsPbmb	2SJ71	Jh00	JN4-	62- J	6S1N	- M1	dDw
AdC	11N71	h12N	hS- 0	hSS-	hSJ6	SM02	dDw
AdSCcmb	4071	hh6- N	1S1h- 0	1S1hJ4	1S1106	1M2	dDw
RpsCcmb	2- N71	004S-	0h0N4	NS2S-	0h1- S	1M11	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0S4N-	01S0J	01S4J	0SN6N	SM40	dDw
YTTr peomb	10271	16420	1JN1N	16620	162h1	2Mlh	dDw
YTTr peomb	10272	0J6h	NSSN	0J6-	001-	- M1	dDw
YTTr peomb	10671	11440	11N14	116Nh	116JS	1M0S	dDw
YTTr peomb	10672	16NJS	1Jh1S	16- hh	16- N6	2MN0	dDw
YTTpomb	Nh71	1- 0JNN66	141- 6441	1- N01S1h	1- h221SN	1Mlh	dDw
YTTpomb	Nh72	1J20- JS	1- 2SJ- 4	1J- 40h2	146SNh2	NM2	dDw
ZdCd	6672	h20NN	hShh0	hShS-	h1J62	1M16	dDw
ZqpdnComb	hS71	6- 211	6J- 2h	6Jh- h	64N26	2M21	dDw
ZqpdnComb	h171	14hJN	14NJN	1J142	14hN6	SM16	dDw

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Mswww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	2302	1- 1J24	1- - 239	1- - 714	1- 2J32	O.69	cpw
Antimony	12101	9- -	1O27	J37	947	J.O1	cpw
Arwenic	3702	92J	J76	J31	JJ7	4.29	cpw
Bsrium	1- 701	96O91	992- 9	9J763	93966	1.69	cpw
Bsrium	1- 301	131- 1-	133112	13JO4J	137491	2.OJ	cpw
BeryRium	901	76O	71O	61O	76O	J.9-	cpw
Biwmuth	2O901	69- 17- 7	3O7JJ29	6336- 31	6922247	2.O4	cpw
Biwmuth	2O902	- 23O19J	- 27446J	- O92244	- 2O76- 3	- .O3	cpw
Bromine	J101	74O1	719-	4J1J	71- 3	7.36	cpw
Csdmium	1OJ01	6-	46	7O	7-	16.44	cpw
Csdmium	1O601	- J42	4142	- 336	- 92O	4.9J	cpw
Csdmium	11101	J- 2	92J	922	J94	6.OO	cpw
CsRium	4- 01	631JJ	6J- 31	6J212	63924	O.94	cpw
CsRium	4401	1122J49	11- 7391	1144J9-	11- 4711	O.9J	cpw
Csrbon	1201	- 196J12	- 297J77	- 263239	- 27- - 16	1.73	cpw
Csrbon	1202	4O177	412- 4	41127	4OJ- J	1.47	cpw
ChRorine	- 701	J1- 22J3	J269217	J4- O7O1	J233- - 4	1.JO	cpw
ChRorine	- 702	6172-	61- 3-	61131	61- 76	O.29	cpw
Chromium	7202	J946	J39-	J6- 9	J39-	1.34	cpw
CobsRt	7902	1O771	1O714	1O391	1O619	1.42	cpw
Copper	6- 02	- 367-	- JO3J	- 33- -	- 3J21	O.6O	cpw
Dywprowium	17601	14266	149OO	14191	1447-	2.3O	cpw
Dywprowium	17602	6O37	6O71	6- 42	6176	2.62	cpw
Erbium	16401	1OJ31	117O7	11- 43	11241	2.9-	cpw
Erbium	16402	4964	4J11	7O44	494O	2.4O	cpw
GsdoRnium	16O01	1- 1J2	129O3	1- 1J2	1- O9O	1.21	cpw
GsdoRnium	16O02	66O7	62- 2	632J	6722	- .93	cpw
HoRmium	16701	996- 3O3	9911O13	9J- 1O69	99O19- 1	O.63	cpw
HoRmium	16702	424J343	414J446	4O13- 16	41- J13O	2.JO	cpw
Indium	11701	3- 79- - O	31JO227	31O321J	3217791	1.JO	cpw
Indium	11702	1O1O9- 3	1OO- 4OJ	9771- 9	9J9J2J	- .O6	cpw
Iron	7402	62- 6- J	612472	62762J	62O73-	1.14	cpw
Iron	7602	119379- 3	11964J1J	11J9- 936	1194491O	O.- 3	cpw
Iron	7302	291127	2J2311	2J3J11	2J3216	1.4J	cpw
Krypton	J- 01	269	263	2J9	237	4.- 4	cpw
Lesd	2O601	9912O	1O779-	1O43J3	1O- 163	- .42	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

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CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	J2JO3	J6- O-	J63- 9	J72J-	2.7-	cpw
Lesd	2OJ01	- 9O7J4	41O4J7	4O7616	4O222J	2.7J	cpw
Lithium	601	27J37O3	261J2J6	274J11O	27J46- 7	1.- 6	cpw
Msgnewium	24O2	13237O	13- 277	13JO46	1346J4	1.63	cpw
Msngsnewe	77O2	13979J	13J47J	133- 1O	13J476	O.64	cpw
MoRybdenum	9401	7926	7JO1	73O1	7J1O	1.94	cpw
MoRybdenum	9701	1163	1- - -	1227	1242	6.J1	cpw
MoRybdenum	9601	22OO	2OOO	21- 4	2111	4.J2	cpw
MoRybdenum	9301	JOO	97O	J42	J64	J.96	cpw
MoRybdenum	9J01	2O37	2O42	2163	2O97	- .O9	cpw
Neodymium	17O01	24O49	24J73	24J2-	24736	1.J6	cpw
Neodymium	17O02	3392	3946	37O2	3343	2.91	cpw
NickeP	6O02	72JJ	77OJ	7721	74- 9	2.41	cpw
8howphoruw	- 102	2OOO	19OO	21- 4	2O11	7.J2	cpw
8otswwium	- 902	1O1J41	9664J	1O1477	999J1	2.J9	cpw
Rhodium	1O- 01	3- J3- 36	3166J- 9	3174O- 3	32- 6OJ4	1.J1	cpw
Rhodium	1O- 02	- 2962J6	- - O3- 4J	- 1O26- 7	- 2- 742-	- .76	cpw
Scsndium	4701	4971J27	4643113	43O4112	43636J7	- .4O	cpw
Scsndium	4702	171971	17- O96	1446O4	149JJ4	- .O3	cpw
SeRenium	J201	- J	2J	27	- O	22.O7	cpw
SeRenium	3302	13	23	2O	21	24.12	cpw
SeRenium	3JO2	29	- 9	47	- J	21.46	cpw
SiRcon	2J01	- 27OJ47	- 1J939O	- 27- 731	- 2- 14O2	1.12	cpw
SiRver	1O301	77J	6J-	613	619	1O.1O	cpw
SiRver	1O901	627	77J	47J	743	17.- -	cpw
Sodium	2- 02	- 3- - 2	- 792J	- 37O3	- 6922	2.- 4	cpw
Strontium	J601	62491	62724	61993	62- - 3	O.43	cpw
Strontium	JJ01	724919	7- 7961	719319	726J66	1.73	cpw
SuRfur	- 401	29OO3O	292J67	2J62J3	2J9341	1.14	cpw
Terbium	1790 1	1O- 7699-	1O13322J	1OO3O791	1O2O16O4	1.42	cpw
Terbium	1790 2	41244J7	41O2J61	- 9J1674	4O69663	1.J9	cpw
ThsRRum	2O- 01	1O42	1OOO	9OO	9J1	3.42	cpw
ThsRRum	2O701	2427	2237	2413	2- 3-	- .77	cpw
Tin	11J01	2337	2363	2J63	2JO-	1.9J	cpw
Titsnium	4301	21713	216OO	22471	21J76	2.- 3	cpw
Ursnium	2- J01	17633	16169	1766O	17J- 7	1.J-	cpw

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CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	71O2	14394	143- 1	1494J	14J24	O.37	cpw
Ytterbium	13201	- O92	- 4- 4	- 2J4	- 23O	7.24	cpw
Ytterbium	13202	137O	1997	17J-	1336	11.64	cpw
Ytterbium	13601	- 4- 4	- 763	- 379	- 7J3	4.76	cpw
Ytterbium	13602	1132J	12OOO	1147O	11326	2.- 7	cpw
Yttrium	J901	1- 411424	1- O61694	12JJO417	1- 113J44	2.O6	cpw
Yttrium	J902	1- 46917	14O93J9	12J73O3	1- 4343O	4.6O	cpw
Zinc	6602	19- - O	1J9O9	1977O	1926-	1.69	cpw
Zirconium	9O01	1- 2O3	1- 4O3	1- 6O3	1- 4O3	1.49	cpw
Zirconium	9101	2342	- 137	- - 13	- O3J	9.3-	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	68264S	6024Sy	606018	6002y4	SU06	ql s
c n&Amonh	12171	1S818y	11SS6S	1S60E1	1S8- 4y	1Uy1	ql s
c rsenAq	0y72	y62-	y482	yy- 6	yy40	1U28	ql s
BarAum	1- y71	EE6S66	1S- 4S24	EE22y-	1SS0448	2U2E	ql s
BarAum	1- 071	18y4- 01	1804SSy	186- 82-	1864S66	SUy-	ql s
BerhlIAum	E71	106yy	1812S	10E- y	10ES-	1U 1	ql s
BAsmu&G	2SE71	6882604	yy6yyS4	68E11y6	6446444	11U8-	ql s
BAsmu&G	2SE72	- - 6y641	- - 14214	- 268266	- - 16S4S	1U40	ql s
BromAne	8171	016S	0E11	8SS-	06E1	6US1	ql s
RaOmAum	1S871	116-	1142	1101	11y8	1U S	ql s
RaOmAum	1S671	y818	4884	y0y1	y48y	EUyS	ql s
RaOmAum	11171	1y848	16y2y	1y86y	16S0E	2U4S	ql s
RalqAum	4- 71	- 42S02	- y1842	- 4626-	- 46026	1U41	ql s
RalqAum	4471	y88S4- 1	yE1012y	y0- 8- 22	y84y2E2	1U62	ql s
Rarbon	1271	yEy40- 1	618y000	61- 1- 0y	6SES628	1UE8	ql s
Rarbon	1272	06084	084SS	001Ey	0046S	1US8	ql s
RGlorAne	- y71	101620y6	216- E844	24S160S0	2SE- E06E	16U62	ql s
RGlorAne	- y72	2SSESy	2SE- y6	21- 0S1	2S0E80	- U1-	ql s
RGromAum	y272	1S0y04	1S066y	1S800S	1S8SS-	SU62	ql s
Robal&	yE72	- 6411E	- 62S66	- 662EE	- 64161	SUy8	ql s
RoI I er	6- 72	- 1- 611	- SES02	- 1188S	- 11y21	SU04	ql s
t hsI rosAum	1y671	01y06	04yE1	0- SyE	0- S0y	2US6	ql s
t hsI rosAum	1y672	- 1- 00	- S6y8	- S261	- S06y	1U84	ql s
. rbAum	16471	y00yE	yE20y	y6864	y0E66	2U1S	ql s
. rbAum	16472	2462-	2426E	24- EE	244- S	SU0-	ql s
HaOolAnAum	16S71	66104	66104	64- 22	6yyy0	1U6-	ql s
HaOolAnAum	16S72	- 12E4	- 124S	- SEE-	- 110y	SUy1	ql s
9 olmAum	16y71	EE26646	0811- 8y	E8281y0	E18802E	12UEE	ql s
9 olmAum	16y72	4y2yE80	4- 44SE0	4- 1y- E-	4- Ey1yE	2U6S	ql s
DnOAum	11y71	0- - E4yE	y6yE622	01y1S66	6016016	1- U0S	ql s
DnOAum	11y72	1S4- 204	1S21644	1S18S4S	1S206y-	1U -	ql s
Don	y472	- 284yyy	- - 2100-	- 26S864	- 28ES64	SUE-	ql s
Don	y672	y8801211	6S120808	yE- EEy6y	yE466218	1US6	ql s
Don	y072	1ySS62E	1y2S- y2	1y- 6S41	1y1ESS0	1U10	ql s
Krhl &on	8- 71	- 41	- 6S	- 21	- 41	yU6E	ql s
LeaO	2S671	y- 6- 0S	y40y2E	y- yyy6	y- E818	1U24	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab paml le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAen&paml le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
LeaO	2S071	440S- 6	4y8411	44E8E6	4y1081	1U1	ql s
LeaO	2S871	211S1y2	214yEEy	21SS4- 8	2118862	1U1-	ql s
LA&GAum	671	26- ySy2	21104- 8	26y- 6E0	246802E	12U-	ql s
5 agnesAum	2472	868Ey0	80yy- 8	8y1S48	86y181	1U46	ql s
5 anganese	yy72	E60482	Ey4680	E46401	Ey621-	1U11	ql s
5 olhbOenum	E471	26668	20100	20080	20211	2US6	ql s
5 olhbOenum	Ey71	y818	61S2	y618	y846	4U16	ql s
5 olhbOenum	E671	1S412	EEE6	E8Ey	1S1S1	2U01	ql s
5 olhbOenum	E071	- - y1	- yyE	- - SS	- 4S-	4US-	ql s
5 olhbOenum	E871	E10S	E12S	8608	8E8E	- US1	ql s
NeoChmAum	1yS71	1241yy	126E0S	1212- S	12411E	2U1	ql s
NeoChmAum	1yS72	- 8- 62	- 0- 8E	- 04EE	- 00yS	1U41	ql s
NAqkel	6S72	116S08	11y4y8	1144SE	11y- 1y	SU0-	ql s
PGosl Gorus	- 172	802S	86S-	80y-	86E2	SUE1	ql s
Po&assAum	- E72	4y6128	4y- 0E0	4y40- y	4y4880	SU26	ql s
CGoOAum	1S- 71	01- 4- y4	y662006	6E00S00	6yE14S2	12U26	ql s
CGoOAum	1S- 72	- 44ES8y	- - 2EE61	- - 41006	- - 0- 6S0	1UEy	ql s
pqanOAum	4y71	4ES0882	- 0- 142-	4011E02	44yS426	14U16	ql s
pqanOAum	4y72	16S1E2	1yE- S6	1y4S80	1y0862	2USE	ql s
pelenAum	8271	226E	2- 2y	22y6	228-	1U6S	ql s
pelenAum	0072	2S0	10-	24S	2S0	16U1-	ql s
pelenAum	0872	- 1-	- - S	- - S	- 24	- US-	ql s
pAAqon	2871	16806E- S	162Ey8yy	16- 2112S	164E0E68	1UEE	ql s
pAver	1S071	64ES-	602EE	661SE	661S4	1U81	ql s
pAver	1SE71	61y- S	6240y	6104S	61E1y	SU8S	ql s
poOAum	2- 72	81662	81- 20	8S4- E	81142	SU08	ql s
p&ona&um	8671	- SSESE	- 2S04-	- S0E84	- SE80E	- U24	ql s
p&ona&um	8871	20- 4y86	28ES6S1	28- S10S	28184y2	2U0E	ql s
pulfur	- 471	- 222SS	- 2y88S	- 1E8Sy	- 2262E	SUEy	ql s
i erbAum	1yE71	1S2- 10- 4	0816S- 6	1S2E1S6-	E446208	14UEy	ql s
i erbAum	1yE72	42S00- y	4212yES	42800yy	42- 6S20	1US6	ql s
i GallAum	2S- 71	y8y42	yE822	y80SS	yES21	1U18	ql s
i GallAum	2Sy71	14S1E6	1418- 1	141- 60	1411- 1	SU6S	ql s
i An	11871	1S0S4	11- E0	1SE6-	11S21	- U10	ql s
i A&anAum	4071	1SS0- 1	1SSSy0	E82y-	EE68S	1U2E	ql s
MranAum	2- 871	82- S8	8- 416	8224E	826y8	SU8S	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	2S- - 44	2S- 0yE	2S20E2	2S- 2E8	SU24	ql s
Y&erbAum	10271	10262	102Ey	10E88	10y1y	2U4	ql s
Y&erbAum	10272	84y-	84y8	0840	82y-	4U26	ql s
Y&erbAum	10671	12848	1241y	12y0-	12612	1U04	ql s
Y&erbAum	10672	168Sy	168Sy	16S- 2	16y48	2U0S	ql s
Y&&Aum	8E71	1- EE04E6	11SES2- E	1- 6E- 111	12E26E4E	12U6	ql s
Y&&Aum	8E72	1yy- 28-	1y1- 4S8	140E0E8	1y1y4E6	2U4-	ql s
ZAnq	6672	12E2y1	1204EE	1262y0	12066E	1U18	ql s
ZAqonAum	ES71	6- E- 1	60y48	662y8	6yE12	2U08	ql s
ZAqonAum	E171	14y0y	14042	14y2y	14614	SU08	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPmTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP usb r:	S- Nq. FUMd

8spsb r Tnp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	06N6Sh	0h0JS4	06Nhh0	06hS22	SMM1	dDw
qCTb nCE	12171	2hN4	26N4	2610	262N	1M4	dDw
qpwr Ccd	0h72	hSh1	4JJ0	4NJ-	4JN1	1M01	dDw
Bspcmb	1- h71	64- SJh	6- SS- -	624N62	6- 266-	1M4J	dDw
Bspcmb	1- 071	11hSJ10	111J- SS	111N0S-	112J64S	1M0-	dDw
Br pEPmb	J71	2Jh1	2J02	2J- 1	2Jh2	SM0S	dDw
Bcwb mTG	2SJ71	hJS114-	6Jh24N0	6N6N2hS	6h0- J6S	NMMU	dDw
Bcwb mTG	2SJ72	- - 1h- h0	- 0- N422	- - 6SNh1	- 401h4-	6M0J	dDw
Bpmb oCr	N171	0- J4	061J	NS2N	06NS	4M1N	dDw
5 sob cmb	1SN71	101	1N-	21-	1NJ	11M2	dDw
5 sob cmb	1S671	- hSJ	44N4	41N4	4ShJ	12M1	dDw
5 sob cmb	11171	2- S2	21- 0	2S0N	2102	hMh	dDw
5 sPlcmb	4- 71	- 40J- -	- 4622N	- 42NN0	- 4h6N-	SM04	dDw
5 sPlcmb	4471	hJ220NS	hNN412h	h04- 660	hNhS1J1	1M61	dDw
5 spenC	1271	hS00J62	h26- 1Jh	h- 0S20h	h2- 0144	2MM2	dDw
5 spenC	1272	6h- 12	64442	66J0S	6hh0h	1M6	dDw
5 GPmpcOr	- h71	21S0N- h6	2h26JhN1	202J- h06	24h40101	12M1	dDw
5 GPmpcOr	- h72	2102NN	226S21	22NNSh	224S- N	2M6N	dDw
5 Gpmb cmb	h272	h20- 0	h2N44	h21- 1	h2h01	SM0-	dDw
5 nesPT	hJ72	01260	0S1S2	02SJh	011hh	1M41	dDw
5 nDDr p	6- 72	164h1h	1644NN	166- N0	16h1- S	SM06	dDw
&EwDpnwcmb	1h671	0J6NS	0NJ24	00N- 6	0NN14	1M1N	dDw
&EwDpnwcmb	1h672	- - 6SJ	- - 4h2	- - JJS	- - 6N4	SMM2	dDw
Fpecmb	16471	6Nh61	0S16J	6061h	6N0N1	1MMN	dDw
Fpecmb	16472	20042	20- 6N	20612	20h04	SM0J	dDw
HsonPCcmb	16S71	02h2-	0- h62	0- S42	0- S42	SM01	dDw
HsonPCcmb	16S72	- 4JNJ	- 46N2	- 446N	- 401-	SM06	dDw
y nPb cmb	16h71	Nh6N0J-	J00h64N	J04S1J6	J- 61h46	0M4	dDw
y nPb cmb	16h72	4- 262J1	4NJ160S	4- 10SJ2	4h116N4	0M2J	dDw
tCocmb	11h71	6S6J4S-	0S012S0	02S422h	60N1612	JM1h	dDw
tCocmb	11h72	1S1- S1h	1124N02	1S2Nhh0	1Shh4N1	hM04	dDw
tpnC	h472	4S024JN	4SN211J	4Sh6SJS	4S0S2- 6	SM12	dDw
tpnC	h672	02N00S1-	0- 6N1S41	0- 21N400	0- 2hNN4-	SM1h	dDw
tpnC	h072	1J2SJSJ	1Nh1026	1NN06JJ	1NN600N	1MM-	dDw
KpEDTnC	N- 71	- hS	- JS	- 4h	- 62	6MM2	dDw
Lr so	2S671	hS6S- -	hS0S46	4JJ6Nh	hS42hh	SM0J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP usb r:	S- Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	411226	41NJ4J	41400J	414JNh	SMl-	dDw
Lr so	2SN71	1JhNNN6	1JN- h- -	1Jh100N	1J640- 2	SMMh	dDw
LdTGmb	671	2- S- J0N	2h26211	262J0h2	24N6640	6M0J	dDw
9 sgOr wcmb	2472	JhJ1N1	J44N2-	J64S0N	Jh6S20	1M8h	dDw
9 sOgsOr wr	hh72	J4- 2- S	Jh2N2h	J2J2JJ	J410Nh	1M26	dDw
9 nPEeor Omb	J471	21J1N	2S44J	2106N	21- 0N	- M0N	dDw
9 nPEeor Omb	Jh71	62h2	h04-	hJ26	hJ04	4M1	dDw
9 nPEeor Omb	J671	J60J	J- - 0	J6h4	Jhh6	1MJ	dDw
9 nPEeor Omb	J071	41S1	- - 42	- 642	- 6Jh	1SM4	dDw
9 nPEeor Omb	JN71	JN2J	J40N	Jh0S	J626	1MMJ	dDw
ur noEb omb	1hS71	1- - 02N	1- 1- J1	1- 10SS	1- 220-	SM6	dDw
ur noEb omb	1hS72	4SSJ0	4SS16	4S0SJ	4S204	SM4	dDw
ucdkr P	6S72	- J1N4	- N0- 6	- NNNS	- NJ- -	SMMJ	dDw
8 GhwDGhpmw	- 172	0J11	00- 6	0NN6	0N44	1M21	dDw
8 nTswwcmb	- J72	- - 1J- 4	- 2NNh4	- - 14NS	- - S0h6	SMMS	dDw
. Ghocmb	1S- 71	6Sh2J- S	6NhhNN1	01- - h1h	66NS00h	NM4S	dDw
. Ghocmb	1S- 72	- - N10h2	- 66N- 2h	- 41- JSh	- 4N0JJ4	4MMS	dDw
I dsCocmb	4h71	4SN- S4N	40- NS- 4	400020h	4h- 20N6	NM6S	dDw
I dsCocmb	4h72	1h4J1J	10- 241	16S22N	1620J6	hM0J	dDw
I r PCcmb	N271	264	10h	212	210	2SMM2	dDw
I r PCcmb	0072	14-	16-	J-	1- -	20M8h	dDw
I r PCcmb	0N72	1- 4	1- 1	114	126	NMM4	dDw
I dPdnC	2N71	10602066	106NJ4N-	10N64h00	1004220h	SM0S	dDw
I dPr p	1S071	- S42	- 4h1	- ShS	- 1N1	0M4	dDw
I dPr p	1SJ71	- S60	2N2h	- 1N4	- S2h	6M84	dDw
I nocmb	2- 72	1144Sh	1121- N	114SN6	11- h4-	1M8N	dDw
I TpnCTcmb	N671	- - 6464	- - 1S41	- - - ShN	- - - h21	SMM2	dDw
I TpnCTcmb	NN71	2Jh- 06S	- S12J0h	2J0J006	2JN210S	1M8S	dDw
I mPmp	- 471	2J1060	2J4- 20	2J4J- 1	2J- 60h	SMM0	dDw
Ar pecmb	1hJ71	Nh- 20hN	J01SNJ0	JJ6h- - 2	J4S2JJh	NMM-	dDw
Ar pecmb	1hJ72	410Nh- N	461h00-	426N- h0	4- h422-	hMMS	dDw
AGsPbmb	2S- 71	- SSS	2642	- SSJ	2NN4	0M26	dDw
AGsPbmb	2Sh71	6J00	0S44	02- 6	0SNh	1MMJ	dDw
AdC	11N71	Nh- 6	Nh0S	Nh0S	NhhN	SM22	dDw
AdSCcmb	4071	0S6hS	0SJh1	6J0h-	0S4h1	SMMN	dDw
RpsCcmb	2- N71	JJ2N0	1S10S6	1S11h2	1SS01h	1M26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h172	NJ- 1S	JSSS1	NJ0S-	NJ601	SMJ	dDw
YTTr pe omb	10271	21ShJ	21h- h	21S60	2122S	1M2N	dDw
YTTr pe omb	10272	1S6- 2	1SS4-	JJ26	1S2SS	- M01	dDw
YTTr pe omb	10671	14N2h	14J42	1hSS1	14J2-	SM0S	dDw
YTTr pe omb	10672	1020-	1JS2S	106S1	10J64	hM10	dDw
YTTpomb	NJ71	121- 2S26	1- N42640	1- 0104- 0	1- 2- S0S4	0M21	dDw
YTTpomb	NJ72	1h1N6J0	16S- 0Nh	1hhN644	1h6S- 06	2M0-	dDw
ZdCd	6672	N44NS	N2J44	N24S1	N- 20h	1MS	dDw
ZqpdnComb	JS71	4JJJJ	hS1N-	4J6Sh	4JJ2J	SMJ	dDw
ZqpdnComb	J171	11hJ0	11S1-	1S61-	11S04	4M10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMS0	&8mTmC:MwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMv8 :u wb r :J	S- . qF UMR0

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cOcmb	2072	604 24	660- 4-	66 22.	66. S- 2	SR0-	dDl
qCTb nCE	12171	4 06	4- S1	4 26	446a	- R2a	dDl
qpl r Ccl	0 72	6 . 4	6- 20	64SS	644S	2R14	dDl
Bwpcmb	1- 71	4aS S4	4. 244	4a4020	4a6a2	1R 6	dDl
Bwpcmb	1- 071	a - 1Sa	a06. 6S	a6- S66	a64- 0a	1R .	dDl
Br pE8mb	. 71	- Sa6	- 16	- 1S.	- 12S	1R S	dDl
Bdl b mTG	2S. 71	600 . S2	6. 10111	6. 616 -	6aa4aa.	1R41	dDl
Bdl b mTG	2S. 72	- 4 21. -	- - 62664	- - 4- a2S	- - a6226	1R01	dDl
Bpmb cOr	a171	0120	0620	0 20	0420	- R 6	dDl
9 wob cmb	1Sa71	22	242	22.	2- 2	- R04	dDl
9 wob cmb	1S671	40S.	46 .	42. 2	4 4	RSS	dDl
9 wob cmb	11171	26	2 1a	2 1.	2 64	- RSa	dDl
9 w8lcmb	4- 71	01. 42a	010. . .	01 1- 1	010 1.	SR S	dDl
9 w8lcmb	4471	121a . S4	11. 0a 16	1100 - - S	11. 0. . 10	1R01	dDl
9 wpenC	1271	610a611	6- 4- 021	64a. . a	6- - 04- S	2R46	dDl
9 wpenC	1272	0aSa-	aSa 6	0aS. 1	0. S1S	2RS2	dDl
9 G8mpcOr	- 71	21 1SSS.	24. 06 12	204. S. .	246 . 102	12R1a	dDl
9 G8mpcOr	- 72	21 11	22S62S	22622-	22S0a4	2R4-	dDl
9 Gpmb cmb	272	6a 6	6204	6. a-	60S4	SR60	dDl
9 new8T	. 72	62- a6	6102-	612. 4	61aS1	SRa.	dDl
9 nDDr p	6- 72	14S 0.	14Sa1S	1- . . .	14S4 S	SR 1	dDl
&El Dpnl cmb	1 671	a- 62.	a- 0a	a26- .	a- 2a2	SR60	dDl
&El Dpnl cmb	1 672	- 4 S	- S- 6	- S- -	- 10-	SR6a	dDl
Upecmb	16471	66S2-	60- 46	66266	66 4	1RS6	dDl
Upecmb	16472	26a60	201Sa	26024	26. SS	SR02	dDl
Hwon8Ccmb	16S71	01241	0- 2a6	0- 2.	026a	1R0-	dDl
Hwon8Ccmb	16S72	- - 1-	- 4 S	- S2-	- 262	SR62	dDl
h n8b cmb	16 71	. a0- . 4	. a. - 41a	. . 1 2 S	. a. 4Sa0	SR21	dDl
h n8b cmb	16 72	441- 0 4	4412S	4- - . 200	4- aa- 62	SR 0	dDl
tCocmb	11 71	6. a a21	0SSS. 44	6. a- a00	6. . S214	SR1-	dDl
tCocmb	11 72	1S26S2.	1S2 4. 0	1S20- 1S	1S2620.	SRS.	dDl
tpnC	472	- 2 - 2	- 2a62- 6	- 2. 4202	- 20a611	SR6-	dDl
tpnC	672	. SS. 1. 2	. 44Sa44	. SSaa 4	. 1 2. 6-	SR42	dDl
tpnC	072	1 - - . 14	1 40 a6	14. 014	1 2 0- a	1R06	dDl
KpEDTnC	a- 71	- 20	- 0	- 2	- 2	6R06	dDl
Lr wo	2S671	- aSS20	- . 1Sa0	- aa S-	- a6 - .	1R S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.uwb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMS0	&8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMt8 :uwb r :J	S- . qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
Lr wo	2S071	- 16466	- 22- S6	- 1. 41.	- 1. - . 0	SR 1	dDI
Lr wo	2Sa71	14a. - 0	1 140S2	1 24a 1	1 S. 6. 0	1R2S	dDI
LdTGmb	671	2 44261	2611aS0	2 00. 61	2 0aSS.	1R 1	dDI
y wgCr l cmb	2472	16S 042	1 0- 061	1 aa6-	1 0. 4	1R 2	dDI
y wCgwCr l r	72	1a20- 16	10. 2 S6	1a 6 - 6	1a2 4 -	1R06	dDI
y n8Eeor Cmb	. 471	1a4S4	1a022	1a0aa	1a6- a	1R1S	dDI
y n8Eeor Cmb	. 71	1- - 4S	1- 4. a	14S16	1- 61a	2R .	dDI
y n8Eeor Cmb	. 671	1606S	1626a	1611a	16- a2	2R8S	dDI
y n8Eeor Cmb	. 071	a0 -	a. a0	a261	a660	4R20	dDI
y n8Eeor Cmb	. a71	21- a4	21242	2216S	21 .	2R2.	dDI
u r noEb cmb	1 S71	1- . - - 0	14 S-	14- 2. .	142 0	2R8S	dDI
u r noEb cmb	1 S72	44- 60	442aS	441. 6	442a1	SR1.	dDI
u cdkr 8	6S72	- S1-	- 1 -	- 400.	- 4. a2	SR 4	dDI
NGhl DGhpml	- 172	. - 0a	. 1- 6	. - 0S	. 2.	1R4a	dDI
NnTwl l cmb	- . 72	4a- 4. 2	400. Sa	4. 26- 2	4a4600	1R -	dDI
F Ghocmb	1S- 71	012aaSa	0Sa1124	0Sa24S0	0S. 0446	SR a	dDI
F Ghocmb	1S- 72	- - aS 20	- 4- S6	- - - 6.	- - a. 062	1R22	dDI
l dwCocmb	4 71	46 106-	461 104	4 01- 16	46120 1	SRa0	dDI
l dwCocmb	4 72	1 6- 4	1 . S0.	1 66a.	1 0- 04	SR 4	dDI
l r 8 Ccmb	a271	20	2 2	262	26-	4R2a	dDI
l r 8 Ccmb	0072	16S	1. 0	10-	100	1SR 1	dDI
l r 8 Ccmb	0a72	1- 6	122	12a	12.	R46	dDI
l c8dnC	2a71	1 0- 0620	1 a S4S	1 00664-	1 6. . 00S	SR64	dDI
l c8vr p	1S071	- 660	- 06	- 0 .	- 660	2R S	dDI
l c8vr p	1S. 71	- .	- 6 .	- 20	- 4. a	R6.	dDI
l nocmb	2- 72	1S- . 1a	1S24Sa	1S224a	1S2a a	SR S	dDI
l TpnCTcmb	a671	- - 040	- - - 000	- - 06a0	- - 0- 0	SR a	dDI
l TpnCTcmb	aa71	- S64a. 2	- SS- S4a	2. 22-	- SS0021	1Ra-	dDI
l m8mp	- 471	414S1	414. 0-	4164.	41 161	SR S	dDI
Ar pecmb	1 . 71	1SSSS 4	1S1S4S4	1SS2 6.	1SS4- 42a	SR 4	dDI
Ar pecmb	1 . 72	4- 416. a	420S04a	4- a66. .	4- - - S4a	1R	dDI
AGw8cmb	2S- 71	2. 60	- S0	- 12	- S 6	2R6	dDI
AGw8cmb	2S 71	0 S2	01. 4	0- 11	0- - 6	2R12	dDI
AdC	11a71	1S. 6	142-	1 6	1- 61	SR40	dDI
AdTwCcmb	4071	11. . 41	11. 26S	12SSSa	11. 0- 6	SR	dDI
5 pwCcmb	2- a71	1- 2. S	1- S4SS	1- 22.	1- 1aa2	1R8SS	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTI wb D8 :t&:.J	y h SMS0	&8mTcnC:MwdTnp.J	1
&wTr :i :Adb r :q dOmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMv8 :u wb r :J	S- . q F UMRb

NwpwbrTrp	ywll	9NI 1	9NI 2	9NI -	9NI yrwC	9NI FI &	5CdT
VwOwocmb	172	a0S06	a6. a2	a6 4-	a6a60	SR-	dDI
YTTr pecmb	10271	2SS. .	1. S4a	2S2a-	1. a1S	- R6	dDI
YTTr pecmb	10272	1SSa0	. a- 2	. 406	. 0. a	- R1-	dDI
YTTr pecmb	10671	1- 0S0	144SS	144- -	141aS	2Ra.	dDI
YTTr pecmb	10672	10 1	104S1	10- - .	104- S	SR62	dDI
YTTpcmb	a. 71	14S2aS22	14S011.	1- 6S1. 46	1- . SS- aa	1Ra0	dDI
YTTpcmb	a. 72	1 24. - 6	1 2 66	1 0166	1 44aa.	1R1-	dDI
ZdCd	6672	1S. - 0.	1S. 0. .	11S4S	1S. a61	SR40	dDI
ZqpdnCcmb	. S71	2a6aS	2a - a	- SSa4	2. 1S1	2R4	dDI
ZqpdnCcmb	. 171	6aa	6a20	6 6S	60 0	2R0	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4- 800-	4- 6060	4- 18y1	4- y0h0	SU82	ql s
c n&AmonE	12171	41yh	4- 84	4y18	4- y4	4U16	ql s
c rsenAq	0y72	46S6	4422	428y	44- 8	- U6-	ql s
BarAum	1- y71	- 1- 00h	- 1yhS2	- S80h4	- 1282y	1U10	ql s
BarAum	1- 071	y6S4h6	yy4212	y4882h	yy4y12	1USy	ql s
BerEllAum	h71	22- 2	2- 22	2- 12	228h	2U16	ql s
BAsmu&G	2Sh71	6- h0- 42	0S860SS	600hS28	60y4- y0	yU11	ql s
BAsmu&G	2Sh72	- 28y612	- - 481h6	- - h2Sy4	- - 41hy4	1U6S	ql s
BromAne	8171	61S2	6y4-	6y68	64S4	4U1S	ql s
RaOmAum	1S871	188	2- 8	2- -	21h	12U64	ql s
RaOmAum	1S671	4160	4y18	4yh-	4426	yU1-	ql s
RaOmAum	11171	206y	20- 6	2yyh	2686	4U16	ql s
RalqAum	4- 71	681yhy	6824- 2	68yy6y	68- 1h8	SUJ1	ql s
RalqAum	4471	11- 2h2S4	11- 210S2	1188SySy	11y1S40S	2U08	ql s
Rarbon	1271	46yy420	48y42S4	481h- 4h	4006- 26	2U22	ql s
Rarbon	1272	6S- 16	y014y	6S6- y	yh- 6y	- U2y	ql s
RGlorAne	- y71	2S0414Sy	24- 008hS	2642- 624	2- 8406- h	12USS0	ql s
RGlorAne	- y72	2S406S	2116S4	211621	2Sh- 2h	1U8h	ql s
RGromAum	y272	- 6824	- 6060	- y00y	- 64yy	1U62	ql s
Robal&	yh72	- 6h14	- yy18	- y018	- 6SyS	2U1S	ql s
RolI er	6- 72	8yy- -	8yh- 2	8y4- y	8y6- -	SUJ1	ql s
t EsI rosAum	1y671	66616	68S82	60h4S	60y46	1U2S	ql s
t EsI rosAum	1y672	28620	286h1	286y1	286y6	SU11	ql s
. rbAum	16471	yyy0y	y4- 2S	yyS48	y4h81	1U1y	ql s
. rbAum	16472	22h2S	2264h	220- -	22060	SU61	ql s
HaOolAnAum	16S71	yh204	y861-	yh818	yh2- y	1USS2	ql s
HaOolAnAum	16S72	28404	28S- -	281- 6	28214	SU82	ql s
9 olmAum	16y71	h- 4hh88	h884yyy	h618266	h6106S-	2U08	ql s
9 olmAum	16y72	4200h88	4- 8- hS4	42h0161	4- 1h684	1UJ1	ql s
DnOAum	11y71	60S4h0S	0180- hh	0S16660	6h6h608	- Uy1	ql s
DnOAum	11y72	hhS6S2	1SShS2-	1S20201	1SS8h6y	1U82	ql s
Don	y472	2240Sy-	2- S01h4	224022h	22601yh	1Uy-	ql s
Don	y672	4S601620	4Sy- 8666	4S2S- 8hy	4S401- h6	SU6S	ql s
Don	y072	h0S8S8	h60y22	h640y2	h606h4	SUJ1	ql s
KrEl &on	8- 71	- 21	- - 0	- S6	- 22	4U86	ql s
LeaO	2S671	2- 411-	24S- S0	228- 24	2- 4248	2Uy6	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	1h4- 44	1h4186	1h22SS	1h- y00	SU62	ql s
LeaO	2S871	h1S4h8	h26- 00	h1S- 64	h1y046	1US1	ql s
LA&GAum	671	24S1hS6	2y8yS06	2y412h8	2ySh420	- U81	ql s
5 agnesAum	2472	14h- 6y-	1ySyy- S	148hy11	14h62- 2	SUy6	ql s
5 anganese	yy72	11122S4	11122Sh	1Sh0yS8	11S0- S0	SU00	ql s
5 olEbOenum	h471	16- 6S	16861	16- 4-	16y21	1U08	ql s
5 olEbOenum	hy71	14010	1y2Sh	14- 04	14060	2U84	ql s
5 olEbOenum	h671	16hh4	10- - 6	1016h	10160	1USS	ql s
5 olEbOenum	h071	h4y4	hh01	h20S	hy6y	- U8S	ql s
5 olEbOenum	h871	2- 42S	24- - 1	2- - 2h	2- 6h-	2U-4	ql s
NeoOEmAum	1yS71	1128yS	11644-	11421y	114yS-	1Uy8	ql s
NeoOEmAum	1yS72	- 6SS2	- 6y1-	- y48S	- yhh8	1U4-	ql s
NAqkel	6S72	22y28	21h64	21hyS	22140	1U4h	ql s
PGosI Gorus	- 172	68h4	6226	6820	664h	yUy-	ql s
Po&assAum	- h72	2h682h	2h186h	2hShyh	2h- 21h	1US8	ql s
CGoOAum	1S- 71	66y6SS-	0- S- ySh	6h48648	6h6h- 86	4U6y	ql s
CGoOAum	1S- 72	- 2- 21S-	- 2612h8	- - - hS6-	- 200488	1U6h	ql s
pqanOAum	4y71	4- 162- y	401y20S	40y2111	4yh4y- h	yU26	ql s
pqanOAum	4y72	1yS26S	1y- 041	1y- S40	1y2- 4h	1U21	ql s
pelenAum	8271	212	220	1h6	212	0U-0	ql s
pelenAum	0072	1SS	12S	11-	111	hU10	ql s
pelenAum	0872	1- S	11-	1S6	116	1SU61	ql s
pAAqon	2871	1S0688SS	11S2hSSy	11S46641	1Sh4814h	1U42	ql s
pAver	1S071	28yS	- 2yS	- 2yh	- 12S	0U48	ql s
pAver	1Sh71	- S2y	20yh	2h0y	2h2S	4U86	ql s
poOAum	2- 72	1S26y2	1S1h22	hhhy8	1S1y11	1U-0	ql s
p&ona&um	8671	2168h2	210y4y	211S14	21y1yS	1U60	ql s
p&ona&um	8871	1h01- 44	1h6hyhy	1h6- S62	1h68SSS	SU22	ql s
pulfur	- 471	- 4- h6y	- ySh60	- y10h6	- 48hSh	1U2-	ql s
i erbAum	1yh71	h2S0y06	1S2S1hS6	1SS2hh04	h81- 1y2	yU42	ql s
i erbAum	1yh72	4210SS6	42- 6222	4- 41h10	426yS48	1Uy8	ql s
i GallAum	2S- 71	22yS	2S42	1h42	2S08	0Uy0	ql s
i GallAum	2Sy71	4806	y0- y	y21S	y20-	8U21	ql s
i An	11871	h4S-	hS- 0	h02h	h- hS	- U6h	ql s
i A&anAum	4071	h0016	h8168	1SS00S	h888y	1U60	ql s
MranAum	2- 871	8y168	86142	8- 8- y	8yS48	1U-6	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	y- y46	y- y26	y- 620	y- y66	SU1S	ql s
Y&erbAum	10271	1601h	10S61	10S4y	16h42	1U14	ql s
Y&erbAum	10272	842S	8264	0h86	822-	2U60	ql s
Y&erbAum	10671	11422	122- h	12S- h	11hSS	- Uy8	ql s
Y&erbAum	10672	16100	16S00	16616	162hS	1U06	ql s
Y&&Aum	8h71	128- 12yy	1- 80- 1S0	1- y002y8	1- 4202S0	4U&SS	ql s
Y&&Aum	8h72	14h1y14	1481661	1482242	148y1- h	SU-0	ql s
ZAnq	6672	1Sy- 88	1S0y02	1S64h0	1S6486	1U&-	ql s
ZAqonAum	hS71	22S4-	220- 6	2266h	2248-	1U0S	ql s
ZAqonAum	h171	yS84	46yh	4h84	4hSh	4Uy-	ql s

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Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	682- 66	68S4h0	684h0S	68246h	SU S	ql s
c n&AmonE	12171	606S	026y	01h2	0S6S	- U00	ql s
c rsenAq	0h72	1S84-	1S884	1S081	1S8- 6	SU48	ql s
BarAum	1- h71	h1hh11	h2hhh4	h22y- S	h21- - 2	1USS	ql s
BarAum	1- 071	y2S02-	y146- 6	y2y4S8	y21h8y	SU81	ql s
BerEIlAum	y71	- S80	2y40	- S82	- S- y	2U61	ql s
BAsmu&G	2Sy71	hy- 2208	6y21h80	0S- - 2S6	662yS24	yU14	ql s
BAsmu&G	2Sy72	- 20Sy40	- 202hS4	- 260222	- 20S224	SUS8	ql s
BromAne	8171	0S8h	04S2	0444	0- 1S	2U68	ql s
RaOmAum	1S871	260	246	- S8	204	11U6-	ql s
RaOmAum	1S671	- 006	4h06	4026	4- hy	11U02	ql s
RaOmAum	11171	- y2y	41S-	- 824	- yh2	- Uh6	ql s
RalqAum	4- 71	2h- 410	2h- 0- 1	2h404-	2h- y64	SU20	ql s
RalqAum	4471	428hSyh	42S0828	42y4ShS	4262- 24	1U11	ql s
Rarbon	1271	h446h60	h4y1622	h62y6- 0	hh226Sy	1U0-	ql s
Rarbon	1272	688- 6	0S- 61	60y82	6yS6S	1U04	ql s
RGlorAne	- h71	21y04- S0	2hyh4h68	208- hy- 8	2h2h4y- 8	11U8h	ql s
RGlorAne	- h72	224S22	22- 81S	2- 1hSh	226446	1Uy4	ql s
RGromAum	h272	- 0h4-	- 0282	- 6y04	- 0266	SU06	ql s
Robal&	hy72	- y6h8	4Sh68	- y- 64	- y864	1Uh0	ql s
RoI I er	6- 72	114h22	11- y0S	11402y	1144S0	SU4	ql s
t EsI rosAum	1h671	804yh	86681	80y14	80- 6-	SU02	ql s
t EsI rosAum	1h672	- hh21	- h614	- 44y1	- h2Sy	1U00	ql s
. rbAum	16471	6h4S-	66- 10	6- 661	6h120	2USS0	ql s
. rbAum	16472	2h6y2	2h00h	2hy22	2h0y6	SU4h	ql s
HaOolAnAum	16S71	0- 680	0hSy6	0- 2yh	04S26	1U28	ql s
HaOolAnAum	16S72	- 4062	- h116	- 46- 2	- 48- 0	SU02	ql s
9 olmAum	16h71	8- 2- 14-	yyySSy0	yy1- 6S4	y4S8y48	1SUSS	ql s
9 olmAum	16h72	4220- 0h	4241488	426h02-	4244862	SU46	ql s
DnOAum	11h71	hyhy- 14	0S- S480	028482S	60h82S0	1SU41	ql s
DnOAum	11h72	y840hS	yy26- 8	yy0hh4	yy1640	SU6h	ql s
Don	h472	26S41yy	261h86y	2hyh- 1h	26Sh128	SU4S	ql s
Don	h672	40SS24- 0	46yy1h0-	4h66h88-	46hh- 2y8	1U6h	ql s
Don	h072	11S061-	1111208	11Sh64-	11S8108	SU26	ql s
KrEI &on	8- 71	- 2S	- hh	- 26	- - 4	hUhy	ql s
LeaO	2S671	1S- 0y4S	1Shh012	1S108h2	1S- 0168	1U8-	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	8h0SS6	8h28y-	86h- 8-	8h8420	SU04	ql s
LeaO	2S871	42hh01-	418264-	41826y0	42S0S10	1USS	ql s
LA&GAum	671	2- 2h18y	2hh0282	26y2S- S	2h248- -	0U h	ql s
5 agnesAum	2472	040- 66	0- 0S20	026y46	0- 011-	1U y	ql s
5 anganese	hh72	1S8h2Sh	1S0yS68	1S6yy62	1S08S08	SU01	ql s
5 olEbOenum	y471	10- - 6	10612	161h1	10S- -	4Uh6	ql s
5 olEbOenum	yh71	11Sy6	1S- - 0	1S4- 8	1S624	- U88	ql s
5 olEbOenum	y671	1- 4yy	126h6	120y8	12y84	- U40	ql s
5 olEbOenum	y071	616S	6y8h	64h2	6h- 2	6U41	ql s
5 olEbOenum	y871	1661S	10- 11	10411	10111	2Uhh	ql s
NeoOEmAum	1hS71	1h466-	1h182y	1h8- h8	1h4yhS	2U11	ql s
NeoOEmAum	1hS72	40444	46S66	464yS	46660	1Uh1	ql s
NAqkel	6S72	2164S	2146S	21- S-	21460	SU0y	ql s
PGosI Gorus	- 172	6- y-	664-	628h	644S	2U8h	ql s
Po&assAum	- y72	486S0y	486y- -	4yS0Sh	480yS6	SUhS	ql s
CGoOAum	1S- 71	hy6y60y	0SSS404	0- - S8S8	6066y80	1SU4y	ql s
CGoOAum	1S- 72	- 2S2h2-	- 2488S1	- 20y2hh	- 24- h26	1U1y	ql s
pqanOAum	4h71	- 8- 2206	46420yh	486- hSh	44461y2	12U21	ql s
pqanOAum	4h72	1h4hh6	1h26h2	1h- h2h	1h- h08	SU62	ql s
pelenAum	8271	1hh	1SS	1hh	1- 0	2- U2-	ql s
pelenAum	0072	16-	16-	1h-	16S	- U61	ql s
pelenAum	0872	111	y2	y0	1SS	yU8h	ql s
pAAqon	2871	144- h022	142- 64S1	141yy11-	142yS412	SU8y	ql s
pAver	1S071	8611	8h61	8008	86hS	1U 1	ql s
pAver	1Sy71	0yy4	8- 86	8- 28	82- 6	2Uh0	ql s
poOAum	2- 72	01h26	0104-	021S-	010y1	SU41	ql s
p&ona&um	8671	1y2y6-	1y11- 1	18y6hy	1y12h1	SU80	ql s
p&ona&um	8871	10- - 24S	10- 42h6	102S14h	102y214	SU46	ql s
pulfur	- 471	- SyyS4	- S44y4	- S40- 8	- S6- 0y	1USS	ql s
i erbAum	1hy71	848S246	1SS2S- 20	1S4yh61h	y66h- y6	1SUyS	ql s
i erbAum	1hy72	4141y4y	4114814	4164- yh	414S- 86	SU6S	ql s
i GallAum	2S- 71	- S- 4	- 2Sy	- 242	- 162	- Uh4	ql s
i GallAum	2Sh71	0- 1y	0444	0h00	0440	1U04	ql s
i An	11871	2yy10	- S86y	- 1108	- S6h4	2U14	ql s
i A&anAum	4071	1h4h26	1hh- 2y	1h4- h8	1h40- 8	SU 4	ql s
MranAum	2- 871	0hS- S	0h88h	0h- 4S	0h418	SUh0	ql s

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LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	0621h	0hyS-	0h444	0h8h4	SU1	ql s
Y&erbAum	10271	184- S	180Sh	10y2y	18- hh	2U14	ql s
Y&erbAum	10272	yS48	yS0h	y1h-	ySy2	SU6S	ql s
Y&erbAum	10671	1- 26h	1- 624	12y2-	1- 201	2U64	ql s
Y&erbAum	10672	162y4	16220	16y8y	16hS-	2U16	ql s
Y&&Aum	8y71	11h200y6	1- 0- 0y46	142841- h	1- 18- 2y2	11U$0	ql s
Y&&Aum	8y72	1hS2y40	140- 1h0	140h0S4	148- y- 6	1U11	ql s
ZAnq	6672	1S4- S0	1S4y2h	1Sh42h	1S4886	SU1-	ql s
ZAqonAum	yS71	2y8yy	- Sh42	2y482	2yy04	1U08	ql s
ZAqonAum	y171	6000	6h8h	6y00	608S	2U3y	ql s

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t N:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t N:&T :J	y h SM1S	T qbiqC. :M OCI:J	1
TI ip:A:coe p:d Oobdpn:J	2S2- 7S0712:14J- aJas	TI il Mdp:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	2072	40s- a4	404S60	40- 442	40a621	SR6	O P
d. iqe C. E	12171	4460	a2as	4s1	4 2	R14	O P
dIPp. qO	0a72	s22S	s1s1	s11S	s104	SR62	O P
BI dpe	1- a71	- 40s 0	- a- 162	- a4s6S	- a2S- 6	1RS-	O P
BI dpe	1- 071	6S- a0	62066a	61- s1	61aS4a	1Rs6	O P
BpIENpe	s71	211a	2166	21s1	21a0	1R S	O P
BqPe biG	2Ss71	6s - 10	6sS004s	60sS14s	6 s- sSa	1R42	O P
BqPe biG	2Ss72	- 24626	- 2a0 0	- - 2S- 44	- 204 - S	1R22	O P
BIOe q p	171	6a a	0S6S	021S	6sa2	4R0S	O P
9 I ne dpe	1S 71	2a4	246	2aS	2aS	1R60	O P
9 I ne dpe	1S671	44 4	4- 4	46a1	4aS6	2Rss	O P
9 I ne dpe	11171	- 1-	- 10s	- 1S-	- 14S	1R22	O P
9 I NOdpe	4- 71	160as-	1011 s	10Sa- 2	16s001	1R1-	O P
9 I NOdpe	4471	2 sS2- 0	2s460- 1	2s6- 216	2s- - - sa	1R S	O P
9 I Ir C.	1271	- 0114- 6	- 00 a4-	- 0aa466	- 04 4 2	SRs1	O P
9 I Ir C.	1272	460aS	4a6 s	40S a	46aS	1Ra0	O P
9 GNOIq p	- a71	22- ssas	26a20S62	2s21aas4	26S4041	1- R1	O P
9 GNOIq p	- a72	2- SsS4	2- - 4 0	2- - 6S2	2- 266a	SR66	O P
9 GIOe dpe	a272	20s20	20 44	20aSS	200a0	SR 2	O P
9 Or I N	as72	2sS46	200- 4	2 S 4	2 2	2R4S	O P
9 Ot t pI	6- 72	s4- - 1	s440a	s- - 24	s4S4-	SR60	O P
TEPt IOPdpe	1a671	06- 1s	0s1SS	06s1-	00444	1R s	O P
TEPt IOPdpe	1a672	- - 06s	- - sS	- - a22	- - 020	SRa6	O P
UIr dpe	16471	a420	a421s	a41 6	a422	SRSs	O P
UIr dpe	16472	221s2	21 2	2100a	21s- 1	1RS4	O P
HI nONq dpe	16S71	60446	6s4- 1	6 2	6 a6	1R4	O P
HI nONq dpe	16S72	- - 626	- - 1aa	- - - 22	- - - 60	SR02	O P
h ONe dpe	16a71	ssSa440	s 2s224	s002S60	s - aa0s	SR6	O P
h ONe dpe	16a72	4- S6S -	422a4a4	422- 21s	42a1a a	1R1	O P
& ndpe	11a71	010 - S	0- 4104	01- 6S02	021 01S	1RaS	O P
& ndpe	11a72	s 6- a	1SSSS01	ss2 s2	ss- 66	SRa	O P
&C.	a472	1s- - aSS	1s1Sa- 2	1s2a1s1	1s2- S04	SR6S	O P
&C.	a672	- a210- S1	- 41- 1- 6a	- 40 26	- 401S4a1	1Ra0	O P
&C.	a072	2aa- 2	144ss	1 1ss	1s41S	SR6s	O P
KIEt iC.	- 71	2ss	- SS	- 01	- 2-	12R4	O P
LpI n	2S671	sa22S	sSS4S-	sS11S2	s sS	SR6	O P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t Np:&T :J	y h SM1S	TdNiqC. :M OCI:J	1
TI ip:A:coe p:d Oobdpn:J	2S2- 7S0712:14J- aJas	TI il MdNp:mI e p:J	S42dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	061ssa	04ss6	0a- s22	0aa2sa	SR 1	OI P
LpI n	2S 71	- 0- 2- 4	- 0461- s	- 6s1s04	- 02- 4 0	SR06	OI P
LqGdpe	671	2620a2S	261S 26	26S- 0s4	2614S46	SR40	OI P
y I g. pPdpe	2472	a2a21S	a1a066	a1- 020	a1 2- 4	1R1	OI P
y I . gI . pPp	aa72	0S1026	6sS0- a	6s21- -	6s4 6a	SR 6	OI P
y CNEr np. be	s471	1S- - 0	1S6aa	1S- - 0	1S44-	1R0a	OI P
y CNEr np. be	sa71	661S	60a2	6a- a	66- 2	1R66	OI P
y CNEr np. be	s671	011	62S	0a-	6sa	SR0s	OI P
y CNEr np. be	s071	4a1	44as	4160	4- 1	4R2	OI P
y CNEr np. be	s 71	11S46	1Sa0s	1Ss6-	1S 6-	2R2s	OI P
mpOnEe dpe	1aS71	144 4	14ss41	146Ss-	146s61	1R 1	OI P
mpOnEe dpe	1aS72	466S4	46SS2	460S	464-	SR 2	OI P
mqOkpN	6S72	1642-	161- -	1a2aa	1as- 0	- R 2	OI P
uGOPt GOIbP	- 172	- 0 4	- s 4	- 6a1	- S6	4R41	OI P
uOI PPdpe	- s72	2 0saS	2 a401	206 -	2 - 42S	2RS6	OI P
FGOndpe	1S- 71	01aS22S	02saa60	01 S6-	02112 -	1RSa	OI P
FGOndpe	1S- 72	- 2s0-	- - 1S -	- 2aa- 64	- 2 0 0s	SR	OI P
DOI . ndpe	4a71	46 42 1	4 1ss6s	46s- 446	40- 2a6a	1R6S	OI P
DOI . ndpe	4a72	1a2a2	1a21 S	1aSa -	1a1064	SR6	OI P
DpNp. dpe	271	1- a	11a	2	111	2- Rs1	OI P
DpNp. dpe	0072	14-	1- 0	22S	160	20R0	OI P
DpNp. dpe	0 72	4	12-	110	1S	1sR44	OI P
DqNqC.	2 71	1- S4- - 6-	1- 4Sa a	1- 2 0221	1- 24a4sS	1R4S	OI P
DqNpI	1S071	a01S	a2as	a04-	aa01	4R a	OI P
DqNpI	1Ss71	a2Ss	a1as	a11	a162	SR s	OI P
DOndpe	2- 72	01aa1	02a40	026- s	02246	SR 4	OI P
DiIC. idpe	671	11a11a	1102a6	110- 16	116a62	1RS	OI P
DiIC. idpe	71	1S2- 2 0	1S160s	1SSa416	1S1a160	SR s	OI P
DbNbI	- 471	20a0sa	20a244	20 S4	206- 62	SRa4	OI P
cpIr dpe	1as71	1S1- s- - 1	1SS04S- 6	sssS002	1SS6 S46	SR04	OI P
cpIr dpe	1as72	421SS- a	4124aS4	424S2- 6	41s1as2	1R4-	OI P
cGI NNpe	2S- 71	22aS	2- 2a	2- aS	2- Ss	2R2a	OI P
cGI NNpe	2Sa71	a6s-	a01	6S a	a - 2	- R06	OI P
cq	11 71	10 2S	1 S 0	10s62	10sa0	SR04	OI P
cqI . dpe	4071	1S- - 14	1S2- 1	1S- - - s	1S- S11	SRa-	OI P
5II . dpe	2- 71	4 0	4s2a4	4 6- 6	4 s2-	SR64	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Nb. i:DI e t Nb:&T :J	y h SM1S	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- 7S0712:14J- aJas	TI il MdbI:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a172	a1s14	a14 2	a1a0s	a16as	SR44	OI P
YiipIr dpe	10271	1- - 4s	141S	1- 64s	1- 0S2	2R0s	OI P
YiipIr dpe	10272	60- a	6604	6 1-	6041	1RS-	OI P
YiipIr dpe	10671	1S401	1Sas6	ss01	1S- 46	- R2S	OI P
YiipIr dpe	10672	140- 1	14s4	1a4s	1aSas	2R6-	OI P
YiiIdpe	s71	1- 6S Sa	1- 166S	1- aa64S4	1- 0662sS	1R 2	OI P
YiiIdpe	s72	1402 44	14as0SS	14a00a4	146- 4- 2	SRa6	OI P
ZqO	6672	01- - a	0S 6	0Sa24	0Ss1a	SRa0	OI P
ZdOC. dpe	sS71	10612	2S1a1	1s164	1 s0a	6R0a	OI P
ZdOC. dpe	s171	42 4	4S42	42s2	42S6	- R	OI P

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SM11	Td iqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- 7S0712:14J- aJsa	TI il Mdd:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
dNe q dpe	2072	s 4s2a	s - - 2a	sa6s02	s 1406	SR0-	O P
d. ioe C. E	12171	10a4	10s	2S10	1as-	0R3	O P
dIPp. oO	0s72	1a6-	1a62	16 S	1aSs	sR32	O P
BI Idpe	1- s71	- 022	- as4	4Ss410	4S12- S	SR 2	O P
BI Idpe	1- 071	6 - 6 a	0S6401	0S0S0a	0S2416	1RSa	O P
BpIENdpe	71	2aa1	2 S	2 66	2 46	1R 4	O P
BqPe biG	2S 71	6a11- 16	0S642a2	60as6s4	6aa0Sa4	2R24	O P
BqPe biG	2S 72	- 221aas	- 24 a06	- 1s1s- s	- 2S0066	1R3a	O P
BIOe q p	a171	0s11	026S	01s2	0- Sa	2R32	O P
9 I ne dpe	1Sa71	1aa	12s	1- a	1sS	22RSs	O P
9 I ne dpe	1S671	4- s1	4S60	4110	410	- R32	O P
9 I ne dpe	11171	10a0	161	1004	1020	sR41	O P
9 I NOdpe	4- 71	2s1 - 4	2s1 26	2ssS04	2s2 0a	SR02	O P
9 I NOdpe	4471	42a - 2s	420s61a	42012- 2	420a02s	SR22	O P
9 I Ir C.	1271	6S1- 2a2	61- 04a4	6- - 211-	616S 6S	2R31	O P
9 I Ir C.	1272	00s22	00as0	0626s	00214	1RS	O P
9 GNOIq p	- s71	2- a2- 264	204sss 2	2 4- 6 61	26 Ss202	1SRsa	O P
9 GNOIq p	- s72	2- S200	2- a402	2- a	2- 624	2R21	O P
9 GIOe dpe	s272	2s66S	246s1	2s02-	2s- 4s	2R 0	O P
9 Or I Nd	s 72	26a42	2s- S6	260ss	26- S1	- R2a	O P
9 Ot t pI	6- 72	s4S1	s4Sa-	s- 10	s- 061	SR 4	O P
TEPt IOPdpe	1s671	a44 -	a- 110	a44a4	a4S- 1	SR 4	O P
TEPt IOPdpe	1s672	- 6222	- sa1a	- s0 1	- s 44	SR30	O P
UIr dpe	16471	62- 1-	6- 1s	6S12S	61a64	2R34	O P
UIr dpe	16472	2s240	2s414	24 s0	2s2S6	SR 2	O P
HI nONq dpe	16S71	04Sa2	0sS- 0	04S- 1	04- a-	SR06	O P
HI nONq dpe	16S72	- s a2	- s16S	- 4 - 2	- s- sa	1R36	O P
h ONe dpe	16s71	0- 14	01424S	6- 4- 2a	00- S6	1Ra1	O P
h ONe dpe	16s72	41ss0S6	42S1a2	- a4S12	411- a4	2R0	O P
& ndpe	11s71	01 - 66a	0S1as4s	6 a2a1S	0S6sSSa	1R3S	O P
& ndpe	11s72	6a6 2	0 - s4	- 46a	62sSs	2R1s	O P
&C.	s472	1s6Sa -	1s2S- S0	1s4- 12s	1s41442	1R 2	O P
&C.	s672	20061aS-	201a2s- S	20s4s12s	204 64a6	1RS6	O P
&C.	s072	6sss4S	66Sa41	6s6- 6S	6s0sa1	SR4-	O P
KIEt iC.	a- 71	- 40	- 16	- 46	- - 0	sR2s	O P
LpI n	2S671	- - 1622	- - aSs0	- 2424a	- - 1- S	2RS	O P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T :J	y h SM11	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJsa	TI il MdNp:mI e p:J	S4- dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	204640	202S4-	2011aS	202624	SR36	OI P
LpI n	2Sa71	12 16S2	1- S2404	12a4- 0a	12 2a1a	SR0S	OI P
LqiGdpe	671	264- 11a	2s20saa	2s S616	2sa01S0	2R24	OI P
y I g. pPdpe	2472	s4261a	s41S4a	s- 01sS	s4S202	SRs2	OI P
y I . gI . pPp	ss72	6a1 a	606s0a	602a66	600140	SR3a	OI P
y CNEr np. be	471	16- 4-	16a44	160 4	1666S	1R3s	OI P
y CNEr np. be	s71	2010	20SS	20s	202s	1R1S	OI P
y CNEr np. be	671	s64-	sss1	s06S	s6s1	1Ras	OI P
y CNEr np. be	071	1610	1a42	2S60	1a42	12R22	OI P
y CNEr np. be	a71	441a	4- s	4- 26	4- 60	1RS6	OI P
mpOnEe dpe	1sS71	1ss- 1	1s1110	1s12 a	1s26S2	1R3a	OI P
mpOnEe dpe	1sS72	40Ss2	46001	461- 6	466s-	1RS1	OI P
mqOkpN	6S72	11s2s	11s0s	1S6S4	112- s	4Ra0	OI P
uGOPt GOIbP	- 172	- - a4	- 006	- 026	- 62a	sRaa	OI P
uOI PPdpe	- 72	- 26 a2	- 26s- -	- 2sa16	- 26444	SR1a	OI P
FGOndpe	1S- 71	0- - 11- 4	0SsSS41	01- SSS6	010S- 4	2RS2	OI P
FGOndpe	1S- 72	- 202aas	- 2s10 4	- 1206	- 2104s	2R44	OI P
DOI . ndpe	4s71	466410S	4s s Ss	4646121	46- s- a	SR06	OI P
DOI . ndpe	4s72	140021	1401sa	144s4-	146404	1R16	OI P
DpNp. dpe	a271	1- s	1 1	1S6	144	2 R	OI P
DpNp. dpe	0072	160	100	1- S	1sa	1sRs0	OI P
DpNp. dpe	0a72	146	120	110	1- S	11R-	OI P
DqNDC.	2a71	1s1 0S 4	1s2Sa11	1s26- - 22	1s222a4s	SR2-	OI P
DqNpI	1S071	1 0s	16a-	1a42	1a- -	0R6	OI P
DqNpI	1S 71	1a42	16Sa	10a4	104s	6R6	OI P
DOndpe	2- 72	4- sS0	42412	426- S	42asS	1Rs	OI P
DiIC. idpe	a671	1a1aSs	1aS1s2	10a- 2S	1aSS -	SR0	OI P
DiIC. idpe	aa71	166a- a1	162a- 1S	161- 0a-	16- 6a2s	1R0-	OI P
DbNbI	- 471	2a20S2	2as2a0	2a2 - S	2a- 64S	SRsS	OI P
cpIr dpe	1s 71	s sa	1SS24Sa1	60- Sa	s0a2	SR2a	OI P
cpIr dpe	1s 72	4S02 0S	4S a s6	- - 1416	4S- 4440	2R2-	OI P
cGI Ndpe	2S- 71	1aa4	1 a4	212s	1 0	6RSa	OI P
cGI Ndpe	2Ss71	sS4-	46s1	4a1a	4a- 0	4RS0	OI P
cq	11a71	aSS-	aSS-	06 4	0 SS	2R2s	OI P
cqI . dpe	4071	11a 1	11aa4S	12S1Sa	11 - 1-	SR3a	OI P
5II . dpe	2- a71	s1 4	s201S	s2- 41	s2- - 4	SR0-	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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9 Nb. i:DI e t Nb:&T :J	y h SM11	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdpn:J	2S2- 7S0712:14J- aJsa	TI il MdbN:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	s172	416s0	4S1S6	41- - S	41S- 1	1R	OI P
Yiiplr dpe	10271	16s44	1621S	16420	16- 4	1RS-	OI P
Yiiplr dpe	10272	060s	0 a6	0a40	0a- 6	1R	OI P
Yiiplr dpe	10671	112- S	11 40	11 40	110Sa	- Rs4	OI P
Yiiplr dpe	10672	1s0a2	1saa2	140 0	1s4a0	- Ra0	OI P
Yiildpe	a 71	1- a s22a	1- s06- 21	1- s 04-	1- 6a 66-	1R S	OI P
Yiildpe	a 72	144104a	1444420	1- aS06a	1422- 14	2Rs-	OI P
Zq O	6672	4S- s1	41- 1-	4Sssa	4S041	1R24	OI P
ZdOC. dpe	S71	41262	4112a	41s02	41- 21	SRss	OI P
ZdOC. dpe	171	S2a	s s	2- 0	2a0	- RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:41:J6	&sTsUdP u sb r:	S44q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	- - N6N0	- - 2J0S	- 26hh-	- - 20JS	1M06	dDw
qCTb nCE	12171	22Sh	24- 4	2- - 4	2- 2J	4MNJ	dDw
qpwr Ccd	0J72	10NS	1N42	1N26	1N16	1M00	dDw
Bspcmb	1- J71	2SSN- 1	2S- J61	2S4JSS	2S2h64	SM14	dDw
Bspcmb	1- 071	- JJN- 6	- JN0S4	- 6S246	- JN262	SM62	dDw
Br pEPRmb	h71	1JJJ	1604	1JhJ	16SN	- M06	dDw
Bcwb mTG	2Sh71	600N016	6000- 2N	6N6hh0S	6NSN601	SM0N	dDw
Bcwb mTG	2Sh72	- - SJNJ6	- - 1h002	- 0- - 2- N	- 4J2hJJ	0MS-	dDw
Bpmb cCr	N171	62h-	64h-	61J2	6- 1-	2M02	dDw
5 sob cmb	1SN71	121	N-	NN	h0	21MJ	dDw
5 sob cmb	1S671	- h06	- 0h2	- 0h2	- NJ-	2M0J	dDw
5 sob cmb	11171	1101	1146	11J1	11J6	1M16	dDw
5 sPdcmb	4- 71	N- 140	N- 64-	N4- N0	N- 02J	SM0J	dDw
5 sPdcmb	4471	142004N	14622SJ	14- 66S1	14421NJ	1M24	dDw
5 spenC	1271	- 24hS0J	- - 04010	- 414- S6	- - 46S- -	2MN	dDw
5 spenC	1272	4SJ6J	42JS4	411h2	4142S	2Mh	dDw
5 GPmpcCr	- J71	24S2406-	20h0- J4J	2hh26S2h	20- SN112	11MS1	dDw
5 GPmpcCr	- J72	2- 4h- 4	2- h116	24- J6J	2- h2SJ	1MMS	dDw
5 Gpmb cmb	J272	2h2J0	2N66h	2N241	2N022	1M0N	dDw
5 nesFT	Jh72	1hJJ0	1h24-	1NNJ6	1h21h	1MM-	dDw
5 nDDr p	6- 72	- - 2Jh	- - 0N4	- - N14	- - 61h	SM1-	dDw
&EwDpnwcmb	1J671	J644J	JNS- J	Jh1S6	J0N62	2M1	dDw
&EwDpnwcmb	1J672	2416h	241hJ	2- 04N	24S- 0	1MS4	dDw
Fpecmb	16471	422S1	4- N6J	44SN2	4- - N-	2M0	dDw
Fpecmb	16472	10- 21	10- SJ	10SS4	1021S	1MS4	dDw
HsonPCcmb	16S71	4Nh24	J14N-	J2- 4J	JSh1N	- M4h	dDw
HsonPCcmb	16S72	244hh	242Sh	24SNh	24266	SMM0	dDw
y nPb cmb	16J71	h46N- JJ	hNJJN14	hN4J10N	h02- 11J	2M20	dDw
y nPb cmb	16J72	422611h	42J4S- S	4Jh60- 4	4- JNh61	4M0-	dDw
tCocmb	11J71	0S2- h0-	01J2N6-	0- - 0hNJ	01016S0	2M2S	dDw
tCocmb	11J72	hhNSh6	hN2J44	1SN2NN-	1S21104	JM2h	dDw
tpnC	J472	1S204hh	1SS0- S0	hh- 412	1SSh4S6	1M0S	dDw
tpnC	J672	1h2- 22S1	1h26- 6- 2	1h- 2N1h0	1h204600	SM2J	dDw
tpnC	J072	46040-	46SSJ4	4JJS4J	46SNJN	1M6	dDw
KpEDTnC	N- 71	2h0	- 16	- S0	- S0	- MS6	dDw
Lr so	2S671	2J1S62	2JNN42	2J0hhN	2JJh60	1M00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	2111hS	212SSN	21J041	212hNS	1M14	dDw
Lr so	2SN71	hN6NNh	1SSh04h	1S110h6	1SS2N11	1MIN	dDw
LdTGmb	671	24hJN1N	2J162Nh	2J10- 11	2JShNS6	SM4N	dDw
9 sgOr wcmb	2472	2- 0110	2- 4N66	2- SNJS	2- 420N	1MJ	dDw
9 sOgsOr wr	JJ72	- h22- S	- N6hN-	- NS064	- N66Jh	1M4N	dDw
9 nPEeor Omb	h471	NN- 6	h412	h4hJ	h24N	- MIN	dDw
9 nPEeor Omb	hJ71	- 4N4	- 4- 4	- N10	- J0N	JMI-	dDw
9 nPEeor Omb	h671	4NN4	J206	J1- 4	JShN	- MIh	dDw
9 nPEeor Omb	h071	2- Jh	2- Sh	21Jh	220J	4MIN	dDw
9 nPEeor Omb	hN71	664-	Jh- J	6J6N	6- N2	6M1S	dDw
u r noEb omb	1JS71	1S41hJ	1S0- Jh	1Sh0S6	1S0SN6	2MIN	dDw
u r noEb omb	1JS72	- 2h44	- 2N24	- 2660	- 2N11	SM12	dDw
u cdkr P	6S72	hJ00	h4NS	h1- 6	h- hN	2M46	dDw
8 GhwDGhpmw	- 172	16SS	1J60	14h2	1JJ-	- MI0	dDw
8 nTswwcmb	- h72	1J62N2	1J- 2J0	14N- N-	1J2641	2M61	dDw
. Ghocmb	1S- 71	02S10S4	014N- 01	02NS- 6N	021S14N	SM12	dDw
. Ghocmb	1S- 72	- 2h2N0-	- 20JJh0	- JJ- h62	- - 04144	4M62	dDw
I dsCocmb	4J71	4JNhN1-	4J0NNhJ	4JNJhh6	4JN4hS1	SM12	dDw
I dsCocmb	4J72	1J1h- S	14h- 6J	164h02	1JJ422	JMIN	dDw
I r PCcmb	N271	12J	JJ	00	N6	41M04	dDw
I r PCcmb	0072	1- S	11-	140	1- S	12MI2	dDw
I r PCcmb	0N72	N2	N0	0S	NS	1SM10	dDw
I dPdnC	2N71	0- 264S4	0- 26424	0- 0NJ01	0- 4- 0hh	SM41	dDw
I dPr p	1S071	140J	1- 60	1610	14N6	NM44	dDw
I dPr p	1Sh71	1- JN	140J	1J2J	14J-	JMIh	dDw
I nocmb	2- 72	4S1N1	4S0h1	4S604	4SJ4h	SMIS	dDw
I TpnCTcmb	N671	0- SJN	06J6S	046JN	040Jh	2M4	dDw
I TpnCTcmb	NN71	6462- 0	66S422	6J24NS	6J- S46	1M8h	dDw
I mPmp	- 471	2J6S41	2JN22S	261J1N	2JNJh-	1M80	dDw
Ar pecmb	1Jh71	h0J104h	hhNJNS-	h016JJ4	hN1NS- 6	1M4h	dDw
Ar pecmb	1Jh72	4202S2J	4S4NNN2	44hJ0J-	420222S	JM4-	dDw
AGsPRcmb	2S- 71	1- SS	1460	142J	1- h0	6M21	dDw
AGsPRcmb	2SJ71	- - 26	- - 60	- J26	- 4S6	- M1S	dDw
AdC	11N71	1262-	120S6	126hN	12606	SM6	dDw
AdSCcmb	4071	N22- 6	N44hS	N641S	N4- 0h	2M4N	dDw
RpsCcmb	2- N71	- - - hJ	- 460-	- - JS-	- - NJ0	2M8h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
VsCsoomb	J172	- 1NhJ	- 21Jh	- 14hJ	- 1NJS	1N8J	dDw
YTTr pe omb	10271	11hJ6	11hJ6	12- J6	12SNh	1M11	dDw
YTTr pe omb	10272	J01N	JJ1N	JJ2h	JJNN	2N81	dDw
YTTr pe omb	10671	N0hJ	h10N	N062	Nh12	2M8S	dDw
YTTr pe omb	10672	1- N- S	146- S	1J24N	14J6h	4MMN	dDw
YTTpomb	Nh71	1- 641040	1- JN22JN	1- - N4JN1	1- J- 61h6	SM1h	dDw
YTTpomb	Nh72	14N11S-	1- J621-	1JhN1NN	140NJS1	NM1N	dDw
ZdCd	6672	1h- 60	1hh14	1h4hS	1hJhS	1M40	dDw
ZqpdnComb	hS71	1hS64	1hJ02	2SS6J	1hJ60	2M6	dDw
ZqpdnComb	h171	41S1	4442	4S42	41hJ	JM1J	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP u sb r:	S4Jq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	64J21N	6- J- JJ	6- J- 62	6- N64J	SMNh	dDw
qCTb nCE	12171	2JN4	2h- 4	26- 4	2010	6M10	dDw
qpwr Ccd	0J72	100S	10N-	1064	100-	SMJJ	dDw
Bspcmb	1- J71	- 020S2	- 0- 4S1	- 601h1	- 01ShN	SM12	dDw
Bspcmb	1- 071	6J26Sh	66266S	6J02J1	6J0JS0	SM00	dDw
Br pEPmb	h71	- 122	- 166	- 10S	- 1J-	SMN4	dDw
Bcwb mTG	2Sh71	60- SNhS	01- 1h26	60021NN	6N0N- - J	- M21	dDw
Bcwb mTG	2Sh72	- 1hNSJ4	- 2h1h0h	- 2J4- - S	- 24N121	1M46	dDw
Bpmb cOr	N171	06S2	0h00	N- J-	0h00	4M0S	dDw
5 sob cmb	1SN71	1N-	1h2	2- -	2S-	1- M21	dDw
5 sob cmb	1S671	44- 4	4426	4260	4- 06	2M1J	dDw
5 sob cmb	11171	221h	2- JS	21Nh	22J-	- MN1	dDw
5 sPlcmb	4- 71	1J- h- S	1J6h0S	1J6J12	1JJNS4	1M3J	dDw
5 sPlcmb	4471	262J60N	260- h64	2021- 4N	260- 66-	1M0h	dDw
5 spenC	1271	J1NJ22N	J- 6S1S0	J4061- J	J- 4S4hS	2M04	dDw
5 spenC	1272	6601h	6Jh4h	66J1S	66- h2	SM0S	dDw
5 GPmpcOr	- J71	220- 0- 4J	266NhNN0	2N0h1624	26S02hJ2	11M0h	dDw
5 GPmpcOr	- J72	21hNS0	22Jh60	22h1N-	224hN6	2M12	dDw
5 Gpmb cmb	J272	2h410	- S24h	2Nh- -	2hJ- -	2M2J	dDw
5 nesPT	Jh72	- JS46	- 44J2	- 420N	- 4Jh2	1M10	dDw
5 nDDr p	6- 72	642hJ	640hN	64060	6462S	SM44	dDw
&EwDpnwcmb	1J671	1S4h11	1SJ06N	1S- 404	1S401N	1M11	dDw
&EwDpnwcmb	1J672	4- 601	426hJ	4204J	4- S- 0	1M2N	dDw
Fpecmb	16471	N- JJ4	N6112	N0S- 6	NJJ60	2M11	dDw
Fpecmb	16472	- J06N	- 4N66	- JS1-	- J216	1M10	dDw
HsonPCcmb	16S71	Nh204	hSh- J	N0- h6	Nh2S2	1MNh	dDw
HsonPCcmb	16S72	42J24	42SN6	41N- h	421JS	SMN2	dDw
y nPb cmb	16J71	h6NNS- 1	hhhNS2S	h64J4- 4	h000162	1M10	dDw
y nPb cmb	16J72	4SJJhS-	426hN42	42JS6JS	41h21- 2	2MN2	dDw
tCocmb	11J71	0Sh4161	01NS6JN	6hJ11N6	0S0J- - J	1M64	dDw
tCocmb	11J72	h6SS60	hN46h1	1SS426J	hN- SS0	2M2J	dDw
tpnC	J472	24- 1N00	24JN626	2421J- 6	24- 0- 40	SM0h	dDw
tpnC	J672	44J4h162	4416N2J2	4- 0JSNh4	441J61S-	SM1S	dDw
tpnC	J072	1S62hS4	1SJSJN2	1SJ- 6J2	1SJJ01-	SM61	dDw
KpEDTnC	N- 71	- 62	- J0	- J6	- Jh	SM12	dDw
Lr so	2S671	- 4040N	- 6SJ- -	- JN- 2-	- JJ44J	1M10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	2N611S	2h00Sh	2h4h0S	2h2h- S	2N80	dDw
Lr so	2SN71	1- 64N0h	1414JNN	1- h12SN	1- hS22J	1N0h	dDw
LdTGmb	671	2J- h- J0	2JNN- - 1	2JN- J6-	2J0S410	1N8J	dDw
9 sgOr wcmb	2472	J- NSJ2	J46246	J464J0	J4- JNJ	SNMN	dDw
9 sOgsOr wr	JJ72	0N22NJ	0N66- 2	000- 2h	0N2SN2	SN0S	dDw
9 nPEeor Omb	h471	1010N	10NhJ	101h4	10422	2MJ	dDw
9 nPEeor Omb	hJ71	6420	0S00	6JJ2	66NJ	JM16	dDw
9 nPEeor Omb	h671	h64J	hh01	h2hJ	h6- 0	- M1	dDw
9 nPEeor Omb	h071	- NN4	4626	4J4-	4- J1	hM4	dDw
9 nPEeor Omb	hN71	1S40h	11- - N	112- N	11S1h	4N26	dDw
u r noEb omb	1JS71	104NS4	1N10- 0	10040h	10NSS0	1M16	dDw
u r noEb omb	1JS72	J4N2J	J2JN6	JJS06	J4162	2M-	dDw
u cdkr P	6S72	26hNh	262J1	26S41	26420	1MMN	dDw
8 GhwDGhpmw	- 172	- N10	- J42	- N- 4	- 0- 1	4Mh	dDw
8 nTswwcmb	- h72	46N0- 2	46S62J	461h16	46- 0J0	SM14	dDw
. Ghocmb	1S- 71	01- 1hS6	0204- 26	0S0614-	016S0h2	1M4-	dDw
. Ghocmb	1S- 72	- 144JNh	- 20- - J0	- - 46JS1	- 2J4N16	- M14	dDw
I ds Coomb	4J71	46112N0	40- - 026	4J6N2N4	46- 0066	1MMJ	dDw
I ds Coomb	4J72	144JhS	1J121-	1J1h0J	14h2Jh	2N02	dDw
I r PP Comb	N271	104	2SS	210	1h0	11M10	dDw
I r PP Comb	0072	1h-	1NS	210	1h0	hM44	dDw
I r PP Comb	0N72	160	1- J	1- 1	144	1- N60	dDw
I dPdnC	2N71	114N40- 0	1101hN40	11N12400	11602- J4	1M4J	dDw
I dPr p	1S071	16JN	1N60	2S10	1N40	hN04	dDw
I dPr p	1Sh71	16JN	1h42	1hSh	1N- 6	NM4-	dDw
I noomb	2- 72	426J4	4- 24N	4- 066	4- 22-	1N2h	dDw
I TpnCTomb	N671	h- h2-	h- S10	h- h04	h- 6- N	SM10	dDw
I TpnCTomb	NN71	NSJ6- 2	NSh44S	N16h- -	N1S66N	SN01	dDw
I mPmp	- 471	201N0J	20SN21	201- 6S	201- J2	SM1h	dDw
Ar peomb	1Jh71	hNhS644	1SSh- 111	hNhSNS0	hhJN1N0	1M10	dDw
Ar peomb	1Jh72	- h102JJ	4SJJ- 0N	414JJhh	4S- h411	2MMJ	dDw
AGsPPmb	2S- 71	2042	262J	- 1JS	2N- h	hN01	dDw
AGsPPmb	2SJ71	6N1S	6N6h	62h-	66J0	4N06	dDw
AdC	11N71	1S66-	1S021	11SSJ	1S0h6	1N6h	dDw
AdsComb	4071	26JNN0	20- 4N4	264NJ4	26NS0J	1N06	dDw
RpsComb	2- N71	J0JN1	6SNSJ	JN04J	JhS44	2N00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4N1J0	4N100	40J0h	40h01	SM01	dDw
YTTr peomb	10271	2N24S	200h6	2040h	20N- N	1M10	dDw
YTTr peomb	10272	1411-	1- N- J	1- 246	1- 0- 1	- M4-	dDw
YTTr peomb	10671	1NJ64	1NJNh	1NNSJ	1N6J-	SM01	dDw
YTTr peomb	10672	1h10J	1h1hN	1h24N	1h2S0	SM1h	dDw
YTTpomb	Nh71	1- hJN4N4	14J412J1	14Sh2642	141h04Jh	2M1J	dDw
YTTpomb	Nh72	144N42-	1JS0S- -	1J2J62S	14h- 6h2	2M0S	dDw
ZdCd	6672	JNN2J	JNNhJ	JNJS0	JN042	SMJ	dDw
ZqpdnComb	hS71	- JhNS	- 0N44	- 0h11	- 024J	2M14	dDw
ZqpdnComb	h171	N21h	0Nh4	N- 44	N1J-	2MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-446712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2-7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb cOcmb	2072	N1046N	N14JS6	NS6h4S	N12h01	SM00	dDw
qCTb nCE	12171	10h2	1Nh2	2SSh	1Nh0	JM02	dDw
qpwr Ccd	0J72	1hN-	1NhN	1NN6	1h2-	2M0J	dDw
Bspcmb	1-J71	4600JJ	466-62	46S6NS	464h-2	SMM1	dDw
Bspcmb	1-071	N1S640	N26J1-	N1SJhJ	N1Jh1N	1M12	dDw
Br pEPmb	h71	4S1J	4SS-	4SS4	4SS0	SM10	dDw
Bcwb mTG	2Sh71	606-10N	6NS0J24	6NJ--J0	6NSNS2S	SM06	dDw
Bcwb mTG	2Sh72	-206-2N	-2-N246	-2-2066	-24h11-	SM0-	dDw
Bpmb cOr	N171	NN0N	h20N	h-2S	h1Jh	2M06	dDw
5sob cmb	1SN71	1J4	101	2SN	10N	1JM01	dDw
5sob cmb	1S671	4410	464-	4260	444-	4M2J	dDw
5sob cmb	11171	2S01	2S61	2S4N	2S6S	SMMN	dDw
5sPlcmb	4-71	1h-0hh	1h200S	1N0NJ-	1h1404	1M06	dDw
5sPlcmb	4471	--1-461	--226JJ	-2460J0	-2h42h1	1M26	dDw
5spenC	1271	-h06-61	4S-12J1	4S6-4J4	4S2-6Nh	1MSh	dDw
5spenC	1272	4h-06	4h4SS	JS--0	4h0S4	1M1S	dDw
5GPmpcOr	-J71	22hJ010-	2664S202	2N41J120	26SS41h1	1SM01	dDw
5GPmpcOr	-J72	21hhS1	222h6-	226SS1	222hJJ	1M10	dDw
5Gpmb cmb	J272	4-04S	4--Jh	4-2NJ	4-461	SM16	dDw
5nesPT	Jh72	4-0hS	42h-J	4-64-	4-4J6	1MSJ	dDw
5nDDr p	6-72	6N142	6040h	6N6hJ	6N1S6	SMMh	dDw
&EwDpnwcmb	1J671	1-h0NJ	1-h20S	14S10-	1-h04-	SM12	dDw
&EwDpnwcmb	1J672	J00-0	JN4J4	J0242	J0N11	1MSJ	dDw
Fpecmb	16471	116J6N	11h2-4	114h46	116h16	1MMJ	dDw
Fpecmb	16472	404-N	404S1	461-6	46hh2	1MMN	dDw
HsonPCcmb	16S71	122h1-	11NhJ4	11h441	12S4-6	1M0h	dDw
HsonPCcmb	16S72	JN1--	J60N0	J6N00	J0266	1M11	dDw
y nPb cmb	16J71	1SSJhN26	1SS06S1J	hN210SS	hhNJN40	1M4-	dDw
y nPb cmb	16J72	422116h	42h-N0-	4241-00	42J214S	SMMN	dDw
tCocmb	11J71	01206J6	02S21JJ	0--N6S4	0222NSJ	1M4N	dDw
tCocmb	11J72	h0J624	h06J1S	h6N01h	h0-61N	SM44	dDw
tpnC	J472	-1-JN2N	-141J11	-11S4SN	-12h24h	SM-	dDw
tpnC	J672	J01-2S-h	JJ6-2102	JJhh1S6J	J62J10Jh	1Mh	dDw
tpnC	J072	140h6JJ	1404042	14J240-	146NhJ0	SMh	dDw
KpEDTnC	N-71	420	466	421	4-N	JM6	dDw
Lr so	2S671	-21-61	-24-0S	-2-JJS	-2-Sh4	SM4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpro:	2S2- 7S0712 14:40:JJ	&sTsUdP usb r:	S46q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20S2hN	20- J- J	26N66S	20SN- 1	SM12	dDw
Lr so	2SN71	12N0N44	12N6J2h	12N222S	12NJJ- 1	SM4-	dDw
LdTGmb	671	2J- 2N- 6	2J6h210	2J6N0hS	2JJ6h4N	SMM2	dDw
9 sgOr wcmb	2472	6J042J	64- JNh	64- S0-	64NS2h	1M46	dDw
9 sOgsOr wr	JJ72	1SJ1S12	1S- 6141	1S4NhN2	1S4J- 0N	SM00	dDw
9 nPEeor Cmb	h471	1- N4h	14141	14S16	14SS2	1NSJ	dDw
9 nPEeor Cmb	hJ71	N211	00h4	N1S-	NS- 6	2M0h	dDw
9 nPEeor Cmb	h671	1S1S4	hN2h	1S10h	1SS- 0	1MM4	dDw
9 nPEeor Cmb	h071	401N	JS- 4	JSSh	4h2S	- MN	dDw
9 nPEeor Cmb	hN71	1- S1J	1- NS0	12hN2	1- 26N	- M2	dDw
ur noEb cmb	1JS71	2- h126	2- h- N1	2- J- - 4	2- 0h40	SM1J	dDw
ur noEb cmb	1JS72	02666	046J0	02J22	0- 2N1	1M0-	dDw
ucdkr P	6S72	2- N6S	22h- 2	220N2	2- 1h1	2M2	dDw
8 GhwDGhpmw	- 172	- J10	- 660	- 2JS	- 40N	6NS0	dDw
8 nTswwcmb	- h72	JS2S4h	4Nh626	4N- N- -	4h1N- 6	1MNh	dDw
. Ghocmb	1S- 71	0S6J102	014Sh6S	0SN0S6-	0Sh00- 2	SMJ	dDw
. Ghocmb	1S- 72	- 2N2JN1	- 260- 01	- 2N61N0	- 20N01-	SMS	dDw
I dsCocmb	4J71	46h4JJJ	406NJNN	464J644	40S2h2h	1M2	dDw
I dsCocmb	4J72	1J16SN	14hhN2	14hhSN	1JS4hh	SM04	dDw
I r PCcmb	N271	22h	1N1	160	1h2	16M0S	dDw
I r PCcmb	0072	26-	200	210	2J2	12M4h	dDw
I r PCcmb	0N72	2S4	1N0	2SN	2SS	JMN	dDw
I dPdnC	2N71	1J- 6242-	1J6- 0JJ0	1JS1- S1-	1J- - 0664	2NS4	dDw
I dPr p	1S071	1NJS	10JS	1Jh2	10- 1	0M-	dDw
I dPr p	1Sh71	2S2J	1JSS	1h10	1N14	1JM2N	dDw
I nocmb	2- 72	40- 20	46hJh	46- 66	46NN4	1NS-	dDw
I TpnCTcmb	N671	116- 2-	110224	11- 40N	11J60J	1M0h	dDw
I TpnCTcmb	NN71	hh404h	1SS6226	1SSS- N1	1SSS4J2	SM0	dDw
I mPmp	- 471	26S2- 2	2J66h6	2J- 01J	2J6NN1	1M20	dDw
Ar pecmb	1Jh71	1SS6h0J0	1S- h2ShN	1SS0J6JS	1S10h16N	1MM1	dDw
Ar pecmb	1Jh72	42J2h04	4140- N0	41JS161	41N- JS0	1M44	dDw
AGsPPcmb	2S- 71	- - Sh	- 626	- - S1	- 412	JM4-	dDw
AGsPPcmb	2SJ71	04- 6	04N6	N16h	06h0	JM-	dDw
AdC	11N71	16hN6	164J2	102hJ	16h11	2M2	dDw
AdsCcmb	4071	2- 0S6N	24S- - 2	2- 6N16	2- NS02	SMM2	dDw
RpsCcmb	2- N71	66606	0S120	01J61	6h4JJ	- M02	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8N
5 Rr CTI sb DP t&:	9 y SU14	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	JhhNJ	JNNJS	JNJhh	Jh14J	1M2J	dDw
YTTr pe omb	10271	- 00h6	- h260	- NJ6J	- NJ4-	1M11	dDw
YTTr pe omb	10272	1N01h	1h4- 0	1hSJN	1hS01	1MMN	dDw
YTTr pe omb	10671	24h66	26S- J	2J6N4	2JJ62	2M1-	dDw
YTTr pe omb	10672	220Jh	2- S- 0	22h4-	22h1-	SM62	dDw
YTTpomb	Nh71	14- 2J062	14J0h- h2	1JSSJJhh	146- 6h1N	2MJ	dDw
YTTpomb	Nh72	1J4J622	1JJ4662	1JSNh4N	1J- 6411	1MN	dDw
ZdCd	6672	JhJhN	JhJJN	JhJhN	JhJNJ	SM34	dDw
ZqpdnComb	hS71	26- SS	26Jh-	2661N	26JS4	SM60	dDw
ZqpdnComb	h171	6S1N	JNh-	JNS1	JhS4	1MM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Cr Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r :	S40q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb cCcmb	2072	Nh- JNh	NNSh41	N0- 6NJ	NN20- N	1M14	dDw
qCTb nCE	12171	126hN	1- 2J0	12J64	12N4S	2NM6	dDw
qpwr Ccd	0J72	0SSJ	0SJ2	6NNN	6hN2	1M21	dDw
Bspcmb	1- J71	0N1h6-	00J6- 1	001212	00626N	SM0S	dDw
Bspcmb	1- 071	1- 0- S0J	1- 040- 1	1- 0- 62h	1- 0- N11	SMS6	dDw
Br pEPRcmb	h71	4J24	4- hS	4666	4J20	- NSJ	dDw
Bcwb mTG	2Sh71	6h- 6h6h	601JJ4N	6N041J2	6N4222-	1M00	dDw
Bcwb mTG	2Sh72	- 26N0Jh	- 264462	- 26- 1N1	- 26J460	SMSh	dDw
Bpmb cCr	N171	0400	N- 44	061h	0N14	JMMJ	dDw
5 sob cmb	1SN71	42J	4SN	410	410	2MSS	dDw
5 sob cmb	1S671	4h- 4	40- 4	4206	464N	0M26	dDw
5 sob cmb	11171	4N26	J2SJ	4hJ-	4hhJ	- NM6	dDw
5 sPlcmb	4- 71	0S- 0NJ	0SN4hS	012N22	0SN- 66	SM04	dDw
5 sPlcmb	4471	11h1- JNh	11h00h1S	12SJ0440	11hN2hN2	SM0S	dDw
5 spenC	1271	6126hhh	62002S0	6- 10- SN	624SJSJ	1M01	dDw
5 spenC	1272	06NS1	0JNNN	00- 2S	0660S	SMMJ	dDw
5 GPhpcCr	- J71	214NN010	2JS1J41J	201SN4- 1	24J- 0J21	11MM0	dDw
5 GPhpcCr	- J72	2Sh0SJ	21404-	21JN2J	21- 424	1MM-	dDw
5 Gpmb cmb	J272	J4014	JJ10h	J- 014	J4J- 6	1MM0	dDw
5 nesPT	Jh72	- JN42	- 4Nh6	- J20S	- J- - 6	1MMJ	dDw
5 nDDr p	6- 72	21N1- 0	214640	21J24-	216SSh	SMM6	dDw
&EwDpnwcmb	1J671	6421-	6J4J-	66N4-	6JJS-	2MS1	dDw
&EwDpnwcmb	1J672	20- 2N	260- 4	26N- S	26h64	1MMN	dDw
Fpecmb	16471	4NJ6J	JS201	4Nh04	4h20S	1MM1	dDw
Fpecmb	16472	2SS- 2	1hh2N	1h00N	1hh1-	SM04	dDw
HsonPCcmb	16S71	J611h	J6- - 0	J04SS	J661N	1M21	dDw
HsonPCcmb	16S72	20SS0	261- 2	26J2-	26JJ4	1M0J	dDw
y nPb cmb	16J71	h4N4N6N	hNJSNh-	hNJ6hJ-	h0- ShSJ	2MMh	dDw
y nPb cmb	16J72	420hS00	4160- S6	424J4S4	42- SJh6	1MM6	dDw
tCocmb	11J71	6h4- 4J6	02Sh2- N	02hJ621	014h4- N	2MM0	dDw
tCocmb	11J72	hhS1N2	hN6464	hN41S-	hN6h16	SMM1	dDw
tpnC	J472	2J044Nh	2J- 42- S	2J2h14S	2J4JhJ-	SMMN	dDw
tpnC	J672	46hS60hJ	4J112h22	40102hh1	46- h0J0S	2MM1	dDw
tpnC	J072	11S6SJ1	11S- 22S	1ShN6Jh	11S264-	SMM4	dDw
KpEDTnC	N- 71	- 2J	- 1h	- 11	- 1N	2MM6	dDw
Lr so	2S671	- - JN- 10	- 261S66	- 2- N0J1	- 2N6S4J	1MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20N2Sh0	20S6J11	20S6NSJ	20- 1NS4	1Mlh	dDw
Lr so	2SN71	12NSN601	12JhS- 11	12J64- 2h	126J44- 0	1N36	dDw
LdTGcmb	671	24J1- 61	2J4S46-	2J- 1160	2JS066-	1M1J	dDw
9 sgOr wcmb	2472	h4hS1N	h- 4hS0	h24S64	h- Jhh6	1M4	dDw
9 sOgsOr wr	JJ72	hN6- 0S	h0N6S4	h66h1-	h002h6	1N3S	dDw
9 nPEeor Ocmb	h471	21SJS	2214-	21642	21612	2Ml-	dDw
9 nPEeor Ocmb	hJ71	1SNh6	1S0S4	111- S	1Sh1S	1M1J	dDw
9 nPEeor Ocmb	h671	14116	1- h41	14SN2	14S46	SM06	dDw
9 nPEeor Ocmb	h071	66NJ	6420	6- h-	6JS2	2M46	dDw
9 nPEeor Ocmb	hN71	102hJ	1060S	10h0h	1064N	1M14	dDw
u r noEb ocmb	1JS71	11- 42h	1124N0	11- 114	11- S1S	SM42	dDw
u r noEb ocmb	1JS72	- 464N	- JJh0	- 464J	- 4h6-	1Ml0	dDw
u cdkr P	6S72	2SNS2	2SSS1	1hhh4	2S266	2M2h	dDw
8 GhwDGhpmw	- 172	6- 6S	641S	64S2	6- hS	SM42	dDw
8 nTswwcmb	- h72	44J4S-	4- 06SS	444- 6N	4424J0	SM16	dDw
. Ghocmb	1S- 71	01S60h0	02S4J0h	0Sh6N0S	01- 6SN2	SMM-	dDw
. Ghocmb	1S- 72	- 2SNN42	- - SJJ1S	- 2J4- 4h	- 2J62- -	1M4h	dDw
I dsCocmb	4J71	4J0J0h-	4JJ4NJ-	40S- N46	46114h0	1M0J	dDw
I dsCocmb	4J72	1404hh	1J24- S	140h- S	14h2N6	1MM-	dDw
I r PCcmb	N271	1h6	1N0	2- S	2SJ	1SM10	dDw
I r PCcmb	0072	1- -	120	1- S	1- S	2Ml0	dDw
I r PCcmb	0N72	1Sh	1SN	11-	11S	2M41	dDw
I dPdnC	2N71	14S66N0N	1- hSJ0N4	14Sh1- J4	14S21- - h	SM02	dDw
I dPr p	1S071	N- 11	N411	N- S-	N- 42	SM02	dDw
I dPr p	1Sh71	0000	N4J-	0N6h	NS- -	4Ml6	dDw
I nocmb	2- 72	1- 0002	1- h142	1- N- 6S	1- N42J	SMS	dDw
I TpnCTcmb	N671	J46J2-	JJ2- J4	J44- 2J	J400- 4	SM06	dDw
I TpnCTcmb	NN71	400JN- 6	4h- 1hN-	4h2112S	4N06- 1-	1M0h	dDw
I mPmp	- 471	- 11hhS	- 2S4- J	- 21h26	- 1N110	1M6N	dDw
Ar pecmb	1Jh71	hh2060S	1S12- NN2	1S1S- 646	1SSJ10- -	1N30	dDw
Ar pecmb	1Jh72	42S- hS-	4S6hN- 1	42Jh6J-	41000h6	2M4	dDw
AGsPbmb	2S- 71	2J- 4	2- 2J	22SS	2- J-	0M16	dDw
AGsPbmb	2SJ71	J406	J2J1	J1Jh	J2h6	- N3N	dDw
AdC	11N71	Jh0hN	6ShS-	620S2	611- J	2M4S	dDw
AdSCcmb	4071	- 46J0J	- JS0Nh	- JS21N	- 4h1h4	SM0J	dDw
RpsCcmb	2- N71	J0SS-	Jh1NS	JNhh0	JN- h-	2N30	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:JS:J4	&sTsUdP u sb r:	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0- J- 1	020J0	01- JS	02J46	1Ml2	dDw
YTTr pe omb	10271	14NJS	1J6NJ	1J226	1J2J4	2N04	dDw
YTTr pe omb	10272	0J1h	0- 04	0- h0	04- S	1N8J	dDw
YTTr pe omb	10671	111NN	11SSJ	110- 1	11- SN	- M4	dDw
YTTr pe omb	10672	1J106	1JJhN	1J6N0	1J4N0	1N00	dDw
YTTpomb	Nh71	1- 6hh46S	14S04- 0S	1- N- S- 0N	1- N6NS6h	1M0	dDw
YTTpomb	Nh72	142hh4N	1441- 0J	14J4N41	1442SJ4	SNM6	dDw
ZdCd	6672	2004N1	204hhS	26h2S-	20- Nh2	1MJ	dDw
ZqpdnComb	hS71	41SJ-	4S10J	412S4	4SN11	1M6	dDw
ZqpdnComb	h171	h412	h6NN	N661	h2J4	JN04	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&biqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	2072	uJ2u44	u444aS	u46J11	u40a4a	SR31	Ol l
d. iqe C. E	12171	J1J1	JS26	461u	4a- 2	JR36	Ol l
dll p. qO	0J72	02JS	0S40	010S	01J6	1R42	Ol l
Bwldpe	1- J71	6S406a	61462S	6S1J42	6S6a00	1R12	Ol l
Bwldpe	1- 071	1S6a4- 1	1S6u6- 0	1S4aJ01	1S62J46	1RS6	Ol l
BplE&dpe	a71	- J4a	- 6- 1	- 60S	- 610	1R01	Ol l
Bdqe biG	2Sa71	66uaJa2	6aJ41u0	600uSJ1	6uS0200	1Rau	Ol l
Bdqe biG	2Sa72	- - - 6a41	- 2SaJuJ	- 200402	- 204666	1RaJ	Ol l
BlOe q p	u171	a24J	a2- 0	a22S	a2- 4	SR14	Ol l
9 wne dpe	1Su71	2J4	2- -	1a2	226	14RS6	Ol l
9 wne dpe	1S671	41a2	4406	- a60	4212	6RSJ	Ol l
9 wne dpe	11171	- S10	2aJJ	2a- u	2a0S	1R a	Ol l
9 w&Odpe	4- 71	4Ja2- 0	46J4- u	4Jaa- a	461J- u	SR04	Ol l
9 w&Odpe	4471	0u412au	0u46121	0664Ju2	00u4SSS	1R -	Ol l
9 wlr C.	1271	- 61a266	- 06u12-	- 02146J	- 0S2aJ1	2RS6	Ol l
9 wlr C.	1272	44406	44044	46- aa	4J2S6	2R S	Ol l
9 G&Olq p	- J71	214- J6aS	2J22- - 66	20Sa60Su	24JuJ2JJ	11R0-	Ol l
9 G&Olq p	- J72	21S0a4	21Ja1S	22S0- 1	21Ju12	2R S	Ol l
9 GlOe dpe	J272	462a1	46144	46J62	46- - -	SR46	Ol l
9 Or w8	Ja72	44a2u	44ua1	4JSu4	44a6u	SR2-	Ol l
9 Ot t pl	6- 72	166061	164121	16J04a	16JJ44	SRuS	Ol l
TEl t lOl dpe	1J671	u0J11	u014-	u42S0	u62u0	2R1S	Ol l
TEl t lOl dpe	1J672	- 6J- 0	- JaSJ	- 644S	- 62a4	SRa4	Ol l
Ulr dpe	16471	66Ja2	66J06	60421	66u6-	SR02	Ol l
Ulr dpe	16472	26a04	26J60	20S4u	26u6-	SRa6	Ol l
HwnO&q dpe	16S71	064J-	0u- 14	0u1- S	006- 2	1R 2	Ol l
HwnO&q dpe	16S72	- Ju2J	- 626-	- 60J1	- 620a	1R2u	Ol l
h O&e dpe	16J71	aJSuaSu	au- J411	a0uuS0J	a01S0au	1Ru2	Ol l
h O&e dpe	16J72	420J- 6J	4210202	41S- a60	41auu6u	2RSu	Ol l
&ndpe	11J71	0S- 2466	012S64J	0S61a1a	0S01600	SR6-	Ol l
&ndpe	11J72	auJ1- 4	a0u11a	a0164S	a0u2a0	SR6a	Ol l
&C.	J472	- SS122S	2aJaJu4	- S- 661-	2aaa1- a	1R2a	Ol l
&C.	J672	J- 0J24aS	J2a0- 646	J44Sa0- J	J- 011aJ0	1R 4	Ol l
&C.	J072	1- u114J	12u16uu	1- S1aa6	1- 216Sa	- Rau	Ol l
KlEt iC.	u- 71	- 14	- - 6	- 2a	- 26	- R31	Ol l
Lpwn	2S671	11Sau2S	11SJ200	1S0u4uS	1Sa0uJa	1R34	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&piqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	a2SSu6	a1a02-	a1416-	a10aa1	SR 6	Ol l
Lpwn	2Su71	4JuSaJ4	4J- 064J	4JS002u	4J421Sa	SRu1	Ol l
LqjGqpe	671	24- 1S26	261Suaa	262JJ16	2JJJu14	4R24	Ol l
y wg. pl qpe	2472	aSJJS1	ua6- u0	ua- JJu	uau4u2	SR6a	Ol l
y w. gw. pl p	JJ72	a4a1a4	a- 4140	a4a- J-	a442- 1	SRa2	Ol l
y O&Er np. be	a471	1u- J4	1u4S4	10a2a	1u22a	1R4-	Ol l
y O&Er np. be	aJ71	1S- 62	aaa6	1SSS4	1S121	2RS0	Ol l
y O&Er np. be	a671	1204u	12a4S	1- SaS	12a26	1R -	Ol l
y O&Er np. be	a071	JuuJ	6SJ1	Ja4-	Ja6S	1R42	Ol l
y O&Er np. be	au71	1J4S1	1616u	1JS- 4	1JJ- 4	- R0-	Ol l
mpOnEe qpe	1JS71	1J- u- S	1JJS40	1JS1- a	1J- SSJ	1R60	Ol l
mpOnEe qpe	1JS72	40- 00	466JJ	4JuJ1	4662u	1R64	Ol l
mqOkp8	6S72	20a6u	20a01	2u- 6u	2u1S2	SRu2	Ol l
NGOl t GOlbl	- 172	4142	44a2	42- 4	42aS	4R2-	Ol l
NOiwl l qpe	- a72	46060a	40204J	40S- 0-	40S266	SR14	Ol l
F GOnqpe	1S- 71	6a6S40J	0S644J-	0Su014u	0S- 0- Ja	SRa6	Ol l
F GOnqpe	1S- 72	- 24u1- 6	- 21- 210	- 2S10J-	- 221S- J	SR0J	Ol l
DOw. nqpe	4J71	46Saaa6	4064616	461uJJ0	4664- ua	1Ru6	Ol l
DOw. nqpe	4J72	1J2SuS	1JS14a	14a6Ju	1JS62a	SRuJ	Ol l
Dp&p. qpe	u271	2JJ	101	104	2SS	2- Ru2	Ol l
Dp&p. qpe	0072	1- S	10S	1J-	1J1	1- R S	Ol l
Dp&p. qpe	0u72	1- u	111	120	12J	1SRu-	Ol l
Dq&qOC.	2u71	14- - 2- u6	14J2S- 4-	1462u1u2	144a- 6- 0	1RS-	Ol l
Dq&vpl	1S071	4a26	J4S1	J4a-	J20-	JR00	Ol l
Dq&vpl	1Sa71	J1S1	4626	J- 4-	JS2-	0R26	Ol l
DOnqpe	2- 72	u402a	u664a	uJuS2	uJ026	1R12	Ol l
DilC. iqpe	u671	- 6120S	- 6402-	- 6- 06a	- 6- 2J4	SR4a	Ol l
DilC. iqpe	uu71	- - S61- a	- 2a4u- 1	- - 1a0a6	- - S6a22	SR u	Ol l
Db&bl	- 471	2u0444	2ua- 04	2a1aaS	2ua6S2	SR0a	Ol l
cplr qpe	1Ja71	aa- J0Ju	1SSJaS4S	1SSau224	1SS- 1SS0	SRuJ	Ol l
cplr qpe	1Ja72	41S4JS-	4142- J1	4S0a- S2	41Su01a	SR00	Ol l
cGw&qpe	2S- 71	- 1Ja	2042	26- 4	2u4J	aR0J	Ol l
cGw&qpe	2SJ71	6ua4	606S	6a1a	6uJu	1R24	Ol l
cq	11u71	- a4- -	- au- 4	4S1Sa	- a0a2	SRu6	Ol l
cqjw. qpe	4071	11- uJ1	112Ju2	11- - 40	11- 26S	SR16	Ol l
5 lw. qpe	2- u71	J121-	JSJJa	J21- -	J1- S1	1R14	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	& l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T &piqC. MwOlCl :	1
Twip A cqe p d Qobdpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	J172	aS242	a1621	uu6u-	aS1u2	1R6-	Qtl
Yiiplr dpe	10271	1aJ0-	2S124	2S- u-	2SS20	2RS6	Qtl
Yiiplr dpe	10272	1S16S	aa6J	a6- 1	aa1a	2R6a	Qtl
Yiiplr dpe	10671	1420J	14S66	141SS	14140	SR0a	Qtl
Yiiplr dpe	10672	10- SS	16uJS	104S1	101u4	1R01	Qtl
Yiildpe	ua71	1- 02J42a	1- J64042	1- aS01J-	1- 0- 2441	1R2J	Qtl
Yiildpe	ua72	14622- J	1446uSa	14Jaa20	14J6- 24	SR10	Qtl
Zq O	6672	aaJS-	a01JS	aau0a	auu44	1R1S	Qtl
ZdlOC. dpe	aS71	- 2uaS	- - J66	- 2- uu	- 2a4u	1R0a	Qtl
ZdlOC. dpe	a171	026S	066a	0u6a	0Jaa	4RSu	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTl wb D8 :t&:J	y h SM2.	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR

NwpwbrTrp	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cOmb	2072	04626S	0- 0026	0- a1Sa	04S6. a	SR6	dDl
qCTb nCE	12171	24 S	21. 2	2242	22.	R.0	dDl
qpl r Ccl	0 72	2- . 1	2- 1a	22a4	2- - 1	2R	dDl
Bwpcmb	1- 71	- a S41	- a00S-	- a4- 0	- a 0S0	SR46	dDl
Bwpcmb	1- 071	6a4a4a	6a4- 01	60- 1a2	6aSaSS	SR.0	dDl
Br pE8mb	. 71	- S66	- 1S2	- SS4	- S 0	1R6-	dDl
Bdl b mTG	2S. 71	6. S- - . 1	60S0406	6. - 24- 4	6a40060	1R0.	dDl
Bdl b mTG	2S. 72	- 2 S- 6a	- 2S4. -	- 16 S	- 2S6. 0	1R.2	dDl
Bpmb cOr	a171	6a6.	60a	6a6.	6a41	SR0S	dDl
9 wob cmb	1Sa71	1SS	12	1- -	11.	14R -	dDl
9 wob cmb	1S671	41S1	4a1a	4126	4- 4a	. R6	dDl
9 wob cmb	11171	14 0	16- 6	1 - 6	1 4-	Ra2	dDl
9 w8lcmb	4- 71	214 20	21- a2S	212 2a	21- 62	SR40	dDl
9 w8lcmb	4471	- 06a1S	- 61116S	- 661S 4	- 6aS1S6	2R1a	dDl
9 wpenC	1271	- aaa022	- a6240-	- . - S0 2	- a. - . a2	SRaa	dDl
9 wpenC	1272	40. . 6	4a00-	4. 2 S	4a60-	1R.S	dDl
9 G8hpcOr	- 71	22. 022- -	26a142 0	2. 10. a. 6	26- 2212.	11R.S	dDl
9 G8hpcOr	- 72	2261aS	226 . 6	2- 1. aa	22a2	1R42	dDl
9 Gpmb cmb	272	- 14-	- 102	- 1aS2	- 16 4	SR61	dDl
9 new8T	. 72	- 6- 0-	- 4a1	- 6S22	- . .	1R2	dDl
9 nDDr p	6- 72	6011	60004	60- . 6	6042a	SR4.	dDl
&El Dpnl cmb	1 671	a6014	a0 a6	a a4-	a6014	1RS1	dDl
&El Dpnl cmb	1 672	- 0. 44	- a6a	- 02- .	- 0S10	2Ra	dDl
Upecmb	16471	6. - - 2	0S. S0	6a400	6. 02	1R0	dDl
Upecmb	16472	2a16-	2aaa	2a2a4	2a444	1R.6	dDl
Hwon8Cmb	16S71	aSS66	aS4S1	06621	0. S2.	2R6	dDl
Hwon8Cmb	16S72	- 0aa1	- 02 2	- 06 0	- 0 . 6	SRa	dDl
h n8b cmb	16 71	. a0- 00	. . - 62- 2	. a11016	. a0- . S0	SR6-	dDl
h n8b cmb	16 72	4142aa6	416. 60S	41- S 1S	41406a.	SR4a	dDl
tCocmb	11 71	026SSa-	02a614	01- 1- 64	022 a64	1R1	dDl
tCocmb	11 72	. 0- 24a	. S. 4S	. 60S-	. 6- 041	1R1.	dDl
tpnC	472	22 - 01-	22. S4a2	22a111a	220 1S4	SRa4	dDl
tpnC	672	416aS0S1	411 4006	4S. 4S126	412 a - 4	SR.2	dDl
tpnC	072	1SS0S. a	. 01104	. 0S26S	. a2a44	2R14	dDl
KpEDTnC	a- 71	- 61	- .	- 1S	- 4-	aR42	dDl
Lr wo	2S671	4 Saa2	4 a2- a	4 6. 2	4 - 4a	SRa6	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 44671	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SM2.	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CcT
Lr wo	2S071	- 0- S- 2	- a1244	- a2 16	- 0a. - 1	1R 6	dDl
Lr wo	2Sa71	1001Sa1	10002. 4	10a6. 11	100a42.	SR4	dDl
LcTGcmb	671	2 1 S40	2 S. 4a	2 aaS01	2 1-	1R4-	dDl
y wgCr l cmb	2472	6- 4a4	642a. 6	6 10SS	64- - 6S	1R26	dDl
y wCgwCr l r	72	6a16-	. 601	61- aS	6- S01	SRaS	dDl
y n8Eeor Cmb	. 471	121a.	126- 1	120. a	12 - .	2R 1	dDl
y n8Eeor Cmb	. 71	4SS1	44S1	41S1	4160	RSS	dDl
y n8Eeor Cmb	. 671	621a	61a	a1S	6S01	- R04	dDl
y n8Eeor Cmb	. 071	260	24 S	2642	2 a.	4R6.	dDl
y n8Eeor Cmb	. a71	6020	6600	0Sa	6a- S	- R26	dDl
u r noEb cmb	1 S71	16S22	161. 14	1 466-	1 a. - 4	2R .	dDl
u r noEb cmb	1 S72	4. 14S	4a. 06	4. 2 -	4. 12-	SR2a	dDl
u cdkr 8	6S72	2S44	2S -	2S- - a	2S4- .	SR4a	dDl
NGhl DGhpml	- 172	2- 0	2SS.	21 S	210a	aR4.	dDl
NnTwl l cmb	- . 72	- a0S2a	- a1S12	- a- . 1	- a- . . 0	SR0a	dDl
F Ghocmb	1S- 71	014S4- S	01SS. 44	0S00aa.	01S6421	SR4	dDl
F Ghocmb	1S- 72	- 22 - 2.	- 2Sa0 4	- 22- 4S4	- 21. 16-	SR2a	dDl
l dwCocmb	4 71	401- S66	461200	46a0-	4601S6	1R12	dDl
l dwCocmb	4 72	14. S11	14- 0a2	14 46	14611-	1Ra2	dDl
l r 8 Ccmb	a271	1-	a	141	12S	2 R6S	dDl
l r 8 Ccmb	0072	1 0	10S	2S-	100	1- R61	dDl
l r 8 Ccmb	0a72	1- 6	126	1- S	1- 1	- Ra	dDl
l c&dlnC	2a71	1S. . 022	1124- 1	11- 0a- - 6	112S 0- a	1R0-	dDl
l c&vr p	1S071	42S1	41S1	4- .	422S	- RS.	dDl
l c&vr p	1S. 71	41S1	4142	- . 26	4S 6	2Ra4	dDl
l nocmb	2- 72	4S624	4S2- .	4S. SS	4S aa	SRa2	dDl
l TpmCTcmb	a671	10S4 .	10- 6- 1	10SS4	101- 0a	1R14	dDl
l TpmCTcmb	aa71	1 2. S6-	1 201a6	1 . 6- 24	1 Sa a	2R 4	dDl
l m8mp	- 471	26. 6-	201244	26. a0a	20S2 -	SR 2	dDl
Ar pecmb	1 . 71	1S1- a - -	1SS- S6. .	1S2S4aS0	1S1246aS	SRa0	dDl
Ar pecmb	1 . 72	4S0S2a0	4S1. . 21	- . . 042	4S2a6 S	SR 4	dDl
AGw8cmb	2S- 71	2 10	2 - 4	- 110	202-	12R	dDl
AGw8cmb	2S 71	6 6.	6- 00	6S1a	6- 21	4R42	dDl
AcC	11a71	11 6-	11a14	112- a	11 - a	2R S	dDl
AcTwCcmb	4071	1- S214	12aa2	1- 1. 6-	1- S- - 4	1R21	dDl
5 pwCcmb	2- a71	- 12a.	- S 46	2. 0-	- S 24	2R	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SM2.	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	172	6 2-	66011	66216	66S 4	1R14	dDI
YTTr pecmb	10271	21142	2126a	21260	21226	SR 4	dDI
YTTr pecmb	10272	1S6- a	1S14.	1S4aa	1S42	2R4S	dDI
YTTr pecmb	10671	1460	1 - 6a	144 S	14a- 1	- R22	dDI
YTTr pecmb	10672	16. S	10- a4	1004	10- 6S	2R2.	dDI
YTTpcmb	a. 71	14S2SS2.	141 S .	1416- Sa4	14112024	SR 0	dDI
YTTpcmb	a. 72	146S612	1424122	1- 2SSS	141224	- R 1	dDI
ZcCd	6672	4- 46-	4- 10	4- 26-	4- - SS	SR 4	dDI
ZcpdnCcmb	. S71	20461	2a246	2a- 2.	2aS12	1R01	dDI
ZcpdnCcmb	. 171	64a	6400	aa	62a2	R4a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:dOobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqI
d8be qFqpe	20 2	2S7J114	2SJ661y	2S61717	2SJ1S1J	SU6u	Qt l
dFiqe . Fh	121 1	2Juu246	26uyu7y	267y244	267y11S	1Uy2	Qt l
dIl pFqO	0J 2	66041	661yu	60S1J	666J1	SU62	Qt l
Bwlqpe	17J 1	2u2y46u	2u00S60	2y1Sy7S	2u024uu	1U42	Qt l
Bwlqpe	170 1	4uy6u00	J17J121	J1Juu2J	JS676Su	2Uu6	Qt l
Bplh8qpe	y 1	6120yJ	62J7y0	6261J1	62144u	1U21	Qt l
Bqe biE	2Sy 1	62271uS	61140u6	6SJuu4y	6172201	1U76	Qt l
Bqe biE	2Sy 2	2yS1J76	2u7u606	2y2u146	2uuy4J7	1UJy	Qt l
Bl. e qFp	u1 1	42S1	7y60	7uSy	7yy2	4Uy4	Qt l
3 wne qpe	1Su 1	J1u64	J1u14	J2SJ6	J1y11	SU2J	Qt l
3 wne qpe	1S6 1	024S0	061y4	07yJu	041u6	2UJ0	Qt l
3 wne qpe	111 1	6167u1	67S6u1	67Su6S	62Jy04	1U77	Qt l
3 w8Qqpe	47 1	76J4S60	70uu2u6	70JS0yy	7071SJ1	1Uu6	Qt l
3 w8Qqpe	44 1	Juy44247	617J4676	Jy270u12	Jyu4JJ64	2U2S	Qt l
3 wlr . F	12 1	26420yJ	2020742	20u0S4u	201yS62	2U60	Qt l
3 wlr . F	12 2	76S11	7u67J	70y66	70J70	7U67	Qt l
3 E8 lqFp	7J 1	2244647	22460uJ	2140uuy	22171S6	2UJJ	Qt l
3 E8 lqFp	7J 2	14y2J	141u2	17Ju2	1427S	4U07	Qt l
3 El. e qpe	J2 2	0124y7	0127y0	0SJ714	01SS6u	SUJu	Qt l
3 . r w8	Jy 2	12uSySu	12641y7	120210y	1202420	SU66	Qt l
3 . t t pl	67 2	117S02Ju	1Su6u060	11Sy60J2	11SySy26	1Uyu	Qt l
Thl t l. l qpe	1J6 1	010	660	0JS	011	JUyS	Qt l
Thl t l. l qpe	1J6 2	777	2u0	76S	720	11U76	Qt l
Glr qpe	164 1	142	2Su	1y2	1u1	1yU22	Qt l
Glr qpe	164 2	u0	J0	00	07	2SUu7	Qt l
Hwn. 8qFqpe	16S 1	Jy2	u2J	610	60u	1uUyS	Qt l
Hwn. 8qFqpe	16S 2	JS0	46S	7u0	4J1	17U41	Qt l
K. 8e qpe	16J 1	yS2J01S	y1y607S	y1J241J	y124yJ1	SUy0	Qt l
K. 8e qpe	16J 2	4S1SJ70	4SS170J	7y41y1J	7yu46Sy	SUy4	Qt l
&Fnqpe	11J 1	67S1y6y	67yy1JJ	67uu72J	67671JS	SUu4	Qt l
&Fnqpe	11J 2	uuS4Jy	u0J6u7	u0yuu6	u0u606	SU7S	Qt l
&. F	J4 2	uJyJ6y1	u1yS674	u1y6S2u	u7204J1	2U0y	Qt l
&. F	J6 2	1J2S11642	1JSS40026	14yuJu10S	1JS67y10y	SU0y	Qt l
&. F	J0 2	7y4u0uy	7u2u2Ju	7u72S61	7u6y0S7	1U00	Qt l
glht i. F	u7 1	21S	2S0	20S	22y	1JU44	Qt l
Lpwn	2S6 1	1210Su1J	126uSyJJ	12JSJJ7S	124J2477	2USu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	T8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMt8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
Lpwn	2S0 1	1SJ77SJS	11S1SSSu	1SuSSJSS	1S0u11u6	2U22	Ot l
Lpwn	2Su 1	4uu2166S	JS04421y	4yu60y72	4yu1120S	1Uy7	Ot l
LqiEdpe	6 1	22S1160	27S2474	22100J6	224S4J2	2U42	Ot l
5 wkFpl dpe	24 2	2u777S16	2u7u22y2	2uJy702S	2u476747	SU4y	Ot l
5 wFkwFpl p	JJ 2	7uyu4S0	7u1117J	70640y0	7u2400y	1U00	Ot l
5 . 8hr npFbe	y4 1	yJ12711	y0S7740	y6210J2	y61240S	1USS	Ot l
5 . 8hr npFbe	yJ 1	170ySSu1	14114247	14S1uSyJ	17y0417y	1U1y	Ot l
5 . 8hr npFbe	y6 1	1J2SJyy1	1J711616	1J272yy0	1J2JS2S1	SU76	Ot l
5 . 8hr npFbe	y0 1	u7y1444	u6Ju22u	u647yS7	uJ64J2J	1U0J	Ot l
5 . 8hr npFbe	yu 1	210S0JJy	22u646y2	27146S02	22J02004	7U7u	Ot l
mp. nhe dpe	1JS 1	7SS	2u0	1uS	2J6	2JU04	Ot l
mp. nhe dpe	1JS 2	6S	67	70	J7	20U24	Ot l
mqOvp8	6S 2	7JS146	7427u4	74J47u	74JyyS	1U17	Ot l
NE. l t E. Ibl	71 2	1y0u1	2Sy04	1y014	2S1J6	7UJ2	Ot l
N. iwl l dpe	7y 2	uyy0y17	uuu06yJ	u6uyJu1	uuJu7y6	1U06	Ot l
9 E. ndpe	1S7 1	6S417y4	61y2J00	61J77yy	612y127	1U2u	Ot l
9 E. ndpe	1S7 2	20uy002	2uSyy0S	2u61706	2u2S707	1U71	Ot l
DOwFndpe	4J 1	4Syu262	4271220	4SJJS00	412u1uy	2U22	Ot l
DOwFndpe	4J 2	1760yu	17J062	174u67	17JuSu	SU01	Ot l
Dp8pFdpe	u2 1	4J40u	46y1u	4616u	461uu	1UJ6	Ot l
Dp8pFdpe	00 2	1417	176S	1JS7	1426	JUSu	Ot l
Dp8pFdpe	0u 2	4027	4012	4u6S	406J	1U07	Ot l
Dq8Q F	2u 1	202S2202	2u7S6y04	2u11J762	20u04u6y	2U12	Ot l
Dq8pl	1S0 1	7742uuS	7761u7J	7746264	77JS726	SU7S	Ot l
Dq8pl	1Sy 1	72S7y42	7107404	722J6Jy	72S1S2J	SUu2	Ot l
D. ndpe	27 2	JS0yS64J	JS2uJ460	JS1212yS	JS7yy174	SU6y	Ot l
Dil. Fidpe	u6 1	1uuJuu7J	1y202S22	1u04y40u	1uy6S112	1U4J	Ot l
Dil. Fidpe	uu 1	161uuy404	16yS2440J	1642777u7	16JS4y111	2U2S	Ot l
Db8Vl	74 1	J4uu42	JJ1S0u	J4uS76	J4y71y	SU2y	Ot l
cplr dpe	1Jy 1	y2Ju4y2	y7J77y0	y7664uy	y726126	SU67	Ot l
cplr dpe	1Jy 2	7uySu60	7uS6y0y	7y46u10	7uu1JJ4	1Uu1	Ot l
cEw8Bpe	2S7 1	2y77uJy	2y6Jyu0	2yuJ60y	2y61u42	SUuu	Ot l
cEw8Bpe	2SJ 1	0Sy1uSu	011477y	0S10222	0S044J6	SU02	Ot l
cqF	11u 1	217S670	22171yu	2144766	2162074	2USJ	Ot l
cqwFdpe	40 1	76u626J	7u766u0	70266S7	704yuJ1	2USu	Ot l
RlwFdpe	27u 1	1SJy2661	1S66uu1u	1S0S6Ju0	1S6J6S22	SUJ4	Ot l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwr :Dwe t 8p:&T :a	3 3 - S24	&Fl iIbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T :a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
- wFwndpe	J1 2	JJu46u	J40616	JJJ2S2	JJ7062	1US1	Qt l
Yiiplr dpe	102 1	210	2y2	10J	22u	2JUy6	Qt l
Yiiplr dpe	102 2	1S6	0u	111	yu	1uU1y	Qt l
Yiiplr dpe	106 1	17472	14177	170J0	17004	2UJJ	Qt l
Yiiplr dpe	106 2	1J706	1J7y2	1J672	1J460	SUy7	Qt l
Yiildpe	uy 1	11J44206	1107y7J4	110u7J14	116uyS4u	1USy	Qt l
Yiildpe	uy 2	12S1J7J	11uSuSJ	11yu7yy	11y7JuS	SUy4	Qt l
ZqFO	66 2	12uSJJJ	12Ju17S	126u6u0	126y124	SUuu	Qt l
ZqQ Fdpe	yS 1	446y701	44yS1S7	4674660	4J717u1	1Uyy	Qt l
ZqQ Fdpe	y1 1	y07yy2	yuS4u4	yyy1u0	yu4JJ4	1U77	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
q8mb c mb	2072	14:	242	- S0	2- 2	- : U 1	dDl
q. Tb C. y	12171	11: a	14h2	16- -	142a	10U$a	dDl
qpl r . cl	0: 72	6	1-	12	1S	- 6U64	dDl
Bwpcmb	1- : 71	- Sa	- : S	142	260	41U 4	dDl
Bwpcmb	1- 071	: - -	: 60	- 42	4a1	2: U20	dDl
Br py8&mb	h71	101	164	116	1: S	1hUa-	dDl
Bdl b mTE	2Sh71	6: - aS6-	62h6a44	641S06h	641: 22:	1Uaa	dDl
Bdl b mTE	2Sh72	- Shh12-	- S66264	- Sa- a40	- Sa- S0a	SU -	dDl
BpCb c r	a171	- 610	- 0- 4	- ah2	- 04a	- U6a	dDl
3 wob cmb	1Sa71	- -	21	- -	2h	24U0:	dDl
3 wob cmb	1S671	- 460	- 460	- a: 1	- : h:	6U16	dDl
3 wob cmb	11171	46:	404	4- -	4: 0	4U0:	dDl
3 w8lcmb	4- 71	6: 4	0ah	41:	61h	- SU 0	dDl
3 w8lcmb	4471	42aS0	42h- a	- 0h0S	412- a	6Ua6	dDl
3 wpeC.	1271	222S0S0	21a: - S6	21ah4- h	21ha4a4	SUaa	dDl
3 wpeC.	1272	26016	26S24	20S10	26: a6	1Uh2	dDl
3 E8Cpc r	- : 71	102S: : h	1664- S6	1612101	166: 60h	- U2:	dDl
3 E8Cpc r	- : 72	11SS4	1S: 46	1S446	1S66:	2U0h	dDl
3 EpCb cmb	: 272	111S	1100	1110	11- :	- U24	dDl
3 Cew8T	: h72	- 0	14S	140	1Sa	: 0U22	dDl
3 CDDr p	6- 72	1h0-	2444	2: 40	2- 21	1- U10	dDl
&yl DpCl cmb	1: 671	a	a	10	11	4- U 4	dDl
&yl DpCl cmb	1: 672	0	S	S	2	10- U21	dDl
Fpecmb	16471	: a	: a	2:	40	4SU0:	dDl
Fpecmb	16472	2S	2-	2-	22	aU6:	dDl
GwoC8c mb	16S71	h2	a-	0:	a-	1SU$S	dDl
GwoC8c mb	16S72	hS	1: S	1S0	116	26UaS	dDl
HC8b cmb	16: 71	h1S06a4	h- - h: : 1	ah- Sh11	h126S4h	2U2:	dDl
HC8b cmb	16: 72	- h4h11h	- hh6- 14	- ha1Sh-	- h0: : Sh	SU61	dDl
t. ocmb	11: 71	601a204	6: : 4224	6: 1- 66a	6: h: - ah	1U64	dDl
t. ocmb	11: 72	h140h6	h- - 12h	h20: : a	h2: 161	1U$2	dDl
tpC.	: 472	: 60	hS6	ha-	a1h	20U$0	dDl
tpC.	: 672	0Sh1	12- 00	14a00	1144h	- 4U02	dDl
tpC.	: 072	2ah	- : 6	410	- : 4	1aU$0	dDl
KpyDTC.	a- 71	2- h	201	2: :	2: :	6U 0	dDl
Lr wo	2S671	260a	26- 4	2- SS	2: - 0	aU14	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wo D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wo D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. cT
Lr wo	2S071	2: 11	2- 2-	1011	21a2	1hU10	dDl
Lr wo	2Sa71	11S14	1S042	h1- 1	1S2h:	hUah	dDl
LcTEcmb	671	22: S- h2	2- 16a22	22a0S06	22a406-	1U46	dDl
5 wg. r l cmb	2472	: 0:	1: Sh	24a4	1: 2-	62U6h	dDl
5 w. gw. r l r	: : 72	11S	24S	4: -	26a	64U04	dDl
5 C8yeor . mb	h471	1hSS	1h10	16SS	1aS6	hUa0	dDl
5 C8yeor . mb	h: 71	- 4Sh	4Saa	2S2:	- 104	- - U12	dDl
5 C8yeor . mb	h671	- 206	- 242	22Sh	2hSh	2SUa:	dDl
5 C8yeor . mb	h071	1: 60	14a-	1- 10	14: 6	aU0:	dDl
5 C8yeor . mb	ha71	446a	: S1h	- S42	4106	24U42	dDl
u r Coyb cmb	1: S71	0	2S	20	1a	: 0U20	dDl
u r Coyb cmb	1: S72	-	S	-	2	a6U6S	dDl
u cdkr 8	6S72	4S	6S	0-	: a	2hUS4	dDl
NECl DECpm	- 172	12:	2: S	242	2S6	- 4USS	dDl
NCTwl l cmb	- h72	1- 4- 1	1- - 6:	1- 14S	1- - 12	1U1:	dDl
9 ECocmb	1S- 71	6: 422: 2	66: a142	6: S16- 6	6: 60- 4-	1U24	dDl
9 ECocmb	1S- 72	- S- a2S0	- 1aaS1-	- S1142a	- S0h216	- USh	dDl
l dw. ocmb	4: 71	4S2: h41	4S6- 0Sa	41- 1: 1S	4S0- 02S	1U- 1	dDl
l dw. ocmb	4: 72	1- : : a4	1- 442h	1- 64S1	1- : 401	SU0-	dDl
l r 8 . cmb	a271	71-	741	14	71-	72S6U- 2	dDl
l r 8 . cmb	0072	S	S	S	S	SUSS	dDl
l r 8 . cmb	0a72	2-	22	16	2S	1aU62	dDl
l 8dC.	2a71	1ha21h	1hS4: h	1ah22:	1h26- 4	2U-	dDl
l 8vr p	1S071	4- -	- - -	- 60	- 0a	1- U4a	dDl
l 8vr p	1Sh71	- 42	- 60	- Sa	- - h	aU64	dDl
l Cocmb	2- 72	40haS	4h2h6	4a0a2	4a6a6	1U- 6	dDl
l TpC. Tcmb	a671	242:	24: h	14: h	2114	26Ua0	dDl
l TpC. Tcmb	aa71	2120-	1: 641	h: : S	1: 4aa	- 0Ua:	dDl
l m8mp	- 471	2h44: a	2h42h6	2h666a	2h: 14S	SU4:	dDl
Ar pecmb	1: h71	h- 1: 42a	h202S: :	h14- 4: h	h24- 640	SUh0	dDl
Ar pecmb	1: h72	- 00- aS-	- aa2: a2	- h24a46	- a6S41S	2USS2	dDl
AEw8cmb	2S- 71	2S60	1hSh	14- -	1aS-	1aU2h	dDl
AEw8cmb	2S: 71	- ha4	4Sh-	- 410	- a- 1	hU40	dDl
Ac	11a71	- a6h	142:	142:	224S	6- USS	dDl
AcTw. cmb	4071	a0:	0a-	410	6h2	- : USS0	dDl
Rpw. cmb	2- a71	1S- -	1: 10	00:	11Sh	- - Uha	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Vw. wocmb	: 172	- -	40	h-	: a	: 4U-	dDl
YTrpecmb	10271	42	: S	: a	: S	16U60	dDl
YTrpecmb	10272	- h	10	2a	2a	- hUhh	dDl
YTrpecmb	10671	11h2	1- : a	1S2:	11h2	1- Uhh	dDl
YTrpecmb	10672	h: 4a	1S6hh	1S- 01	1S2S6	: Ua1	dDl
YTpcmb	ah71	11hSh: h0	11a2hhh-	11h126ah	11aa4Sh-	SUh	dDl
YTpcmb	ah72	12S40a-	122hah0	1220aa1	122Sa: 4	1U14	dDl
Zc d	6672	16-	1h0	26-	2Sa	24U1	dDl
ZqpdC. cmb	hS71	h0:	1S10	0- -	hSa	16Ua4	dDl
ZqpdC. cmb	h171	142	210	160	10:	21Ua2	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCcmb	2072	a: 2611	a4aS6-	a- ah16	a46: - S	SMd2	dDl
qCTb nCE	12171	4406	: 426	40: h	4aa0	hMla	dDl
qpl r Ccl	0: 72	2SS2	2S0-	1hah	2S22	2M24	dDl
Bwpcmb	1- : 71	41212h	4Sa141	41611-	41212a	SM10	dDl
Bwpcmb	1- 071	0- : - h2	0224Sh	0- : 402	0- 1Sh1	1M8-	dDl
Br pE8mb	h71	- 6hS	- 04S	- a2a	- 0: -	1Md:	dDl
Bdl b mTG	2Sh71	60aha- 0	662S- 26	6- aah00	6: hh01-	- M8:	dDl
Bdl b mTG	2Sh72	- S62: - h	- S6S: Sa	- 1224a1	- Sa1a4-	1M14	dDl
Bpmb cCr	a171	h4S-	111- S	1Sa21	1S4: 1	aMd1	dDl
5 wob cmb	1Sa71	1Sa	1S4	h2	1S1	aM16	dDl
5 wob cmb	1S671	42Sh	- h- 4	4SSh	4S: 1	- M11	dDl
5 wob cmb	11171	1S62	1S: S	h0S	1S20	4Md:	dDl
5 w8lcmb	4- 71	- 1: 26S	- 1a- 6-	- 1a: 4:	- 10- ah	SMla	dDl
5 w8lcmb	4471	: 24S- a4	: - 12S: 2	: - 06: 20	: - Sh6: 4	1M2a	dDl
5 wpenC	1271	2h644: 0	2ha0: hh	2h: 2h40	2h6a- - 4	SMlh	dDl
5 wpenC	1272	- 6112	- 0- hS	- 0Sa1	- 6a61	1Md1	dDl
5 G8hpcCr	- : 71	112- 6- - 0	146- 44- 2	10- 14461	14- h: S00	21M16	dDl
5 G8hpcCr	- : 72	1: : 664	1620a-	16: : 64	161- - 0	- M16	dDl
5 Gpmb cmb	: 272	4141S	41- 6S	4S6S4	4112:	1M1S	dDl
5 new8T	: h72	- a0- 6	- 061-	- aS- 4	- a12a	1M4h	dDl
5 nDDr p	6- 72	: 026a	: 6S- 4	: : : aa	: 62h0	1M:	dDl
&El Dpnl cmb	1: 671	1S4: 1:	1S: 222	1Sa: a2	1S61S6	2M8:	dDl
&El Dpnl cmb	1: 672	462hS	44a- a	4: 41S	4: : 1-	1M01	dDl
Fpecmb	16471	a: - 24	a0462	a64S:	a6- h0	1M24	dDl
Fpecmb	16472	- : 2- S	- 40- 2	- 4- : a	- 400-	1M26	dDl
Hwon8Ccmb	16S71	hh02-	hhh16	hh- : 2	hh664	SM2h	dDl
Hwon8Ccmb	16S72	46h66	46a- 2	46- 44	46014	SM0S	dDl
y n8b cmb	16: 71	h646: S1	h: 2- 10h	h2S: 412	h4: a- 64	2M41	dDl
y n8b cmb	16: 72	- ha64- 2	4S: 0aS6	4S0: 6: S	4S- hh62	1M10	dDl
tCocmb	11: 71	0SSh- : -	6a12040	6- a46h6	60- : : hh	4M04	dDl
tCocmb	11: 72	h1: - 6a	h26441	h- 4046	h2: : 1a	1M8:	dDl
tpnC	: 472	244a: 0-	24S4- 06	2- : 44- 2	24S2461	1M16	dDl
tpnC	: 672	4- 6h: 1- S	4- 261aa0	4- 1a: h4-	4- - aSha0	SM0-	dDl
tpnC	: 072	1S- a221	1S4S: 12	1S2: 1aa	1S- 4641	SMdS	dDl
KpEDTnC	a- 71	- 61	- - h	- - 6	- 4:	- Mlh	dDl
Lr wo	2S671	1h: aa4	1hh- : 4	1h: 12-	1h60a0	1Ml:	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S071	1: 0hSa	1: 0062	1: 6SSh	1: 0226	SM60	dDl
Lr wo	2Sa71	0: 1aa-	0: 0hhh	0: S201	0: - - a4	SM4	dDl
LdTGmb	671	240: - ah	2- 00- ha	2- 64- 1:	24S: 0S1	2M2	dDl
9 wgCr l mb	2472	6S1a0S	: h1- : 0	: a0- 1a	: h- : 1:	1M20	dDl
9 wCgwCr l r	: : 72	: 1000h	: Sh: : 4	4h00h4	: Sa- 06	1M1a	dDl
9 n8Eeor Cmb	h471	11h- S	12Sh0	1260-	122- -	- M1a	dDl
9 n8Eeor Cmb	h: 71	- 0h2	- 6Sh	- h10	- 00-	4M11	dDl
9 n8Eeor Cmb	h671	616a	6Sa:	: h26	6S6S	2M8-	dDl
9 n8Eeor Cmb	h071	22: S	26a4	2- h2	2442	hM8:	dDl
9 n8Eeor Cmb	ha71	6220	60S2	0h2a	6h: 2	12M0-	dDl
u r noEb cmb	1: S71	1h0: 02	2S2244	2S21S6	2SS641	1M-	dDl
u r noEb cmb	1: S72	62Sa0	6S462	6Sh: a	6116h	1M6	dDl
u cdkr 8	6S72	2- 44-	22ha:	22a62	2- Sh0	1M-	dDl
NGhl DGhpm	- 172	12a-	1460	11a-	1- 11	1SM6	dDl
NnTwl mb	- h72	- 2a041	- - 1Sh6	- 20h2:	- 2h2: 4	SMS	dDl
. Ghocmb	1S- 71	60a21aS	60S6- S6	64- 0- - 2	6641h- h	2M0-	dDl
. Ghocmb	1S- 72	2hhS0h2	- 1S12: 2	- 1- haa1	- S00- Sa	2M1	dDl
l dwCocmb	4: 71	4: 11h4h	44- h- 62	420- - a0	44Sa2- -	2M00	dDl
l dwCocmb	4: 72	1- h2a2	142664	1- h4a6	14S400	1M:	dDl
l r 8 Cmb	a271	110	1: 6	1- 4	1- 6	14M-	dDl
l r 8 Cmb	0072	21S	2S-	21S	2Sa	1M4:	dDl
l r 8 Cmb	0a72	10:	16h	144	16-	1SM1	dDl
l 8dnC	2a71	144: - a26	14: : hh20	144S2S- a	14401h- 1	SM6	dDl
l 8vr p	1S071	1- 60	1- 0:	1- Sa	1- : S	2M0h	dDl
l 8vr p	1Sh71	10: h	110:	1- h2	1442	2SM46	dDl
l nocmb	2- 72	: h2S0	: : - h0	: 6061	: 0122	- M1a	dDl
l TpnCTcmb	a671	14210h	14: 141	146S: 2	1444: 0	1M4S	dDl
l TpnCTcmb	aa71	12- : 16-	120a01h	1261h46	12: a6Sh	1M0:	dDl
l m8mp	- 471	2h: 0- 2	2aa: 12	2a4S6S	2ah4- :	2M84	dDl
Ar pecmb	1: h71	hhh- 111	h06hSa4	h4- S22:	h0- SaS6	2M11	dDl
Ar pecmb	1: h72	- h144Sa	4S: 22h4	4SS0- - S	- hh1- 44	1M06	dDl
AGw8mb	2S- 71	4206	4- h-	4- 1a	4- 2h	1M0	dDl
AGw8mb	2S: 71	1S- 6-	1S: S:	1S2S4	1S- : 0	1M4:	dDl
AdC	11a71	1S046	1Sh46	1S601	1S0aa	1M2	dDl
AdTwCmb	4071	1S0- a:	1S- 6: 0	1S41: 4	1S: S6:	1M1-	dDl
RpwCmb	2- a71	2h01h	- SS61	- Sa- S	- S2S-	1M4a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	0S0h4	01S1:	6h- 0S	0S- h-	1M20	dDl
YTTr peomb	10271	26h2S	202h:	260a6	20SSS	SM1a	dDl
YTTr peomb	10272	1262-	12: - h	120a4	1264h	SM1a	dDl
YTTr peomb	10671	1a1: :	1a0ah	1h- hS	1a00a	- M2h	dDl
YTTr peomb	10672	1a: aS	1a2- :	1h2h2	1a0S2	2M1a	dDl
YTTpomb	ah71	1- 6ahhS4	1- : 4S26h	12hha2: 0	1- 4Sh400	2M01	dDl
YTTpomb	ah72	14SS1- h	1424aa6	14S626a	141S4- 1	SM11	dDl
ZdCd	6672	2haa:	2h4ha	2h: 20	2h6- 0	SM0-	dDl
ZqpdnComb	hS71	266- 4	20ah:	2aS0h	20: - 6	2M46	dDl
ZqpdnComb	h171	64: 2	6420	6- a:	6421	SM12	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cOcmb	2072	- 66h01	- 01: 4:	- 6a44S	- 6aha:	SM0-	dDl
qCTb nCE	12171	4S42	42h2	4: 1a	42a4	: M:	dDl
qpl r Ccl	0: 72	1- a4	141-	1: S4	14- 4	4M0	dDl
Bwpcmb	1- : 71	26Sa6-	26412:	2: a4S:	2611- 1	1M1S	dDl
Bwpcmb	1- 071	4: 2aSS	40- Sa0	46h: Sh	46: 1- 2	2M-	dDl
Br pE8mb	h71	21SS	2S00	2Sh4	2ShS	SM6	dDl
Bdl b mTG	2Sh71	60: 11- a	6a6h- S:	66hhSh1	600- 10a	1M2h	dDl
Bdl b mTG	2Sh72	- 11h- S0	- 1464: S	- 241S2:	- 16ah2a	2M82	dDl
Bpmb cOr	a171	601a	6: 4-	6400	6: 0h	1M1S	dDl
5 wob cmb	1Sa71	110	1- a	101	142	1hM2h	dDl
5 wob cmb	1S671	4S42	- 026	41a4	- ha4	: M4h	dDl
5 wob cmb	11171	2100	2S: 1	2S61	2Sh0	- M-	dDl
5 w8lcmb	4- 71	1Sa6aS	111a6-	112SS4	11Sa4h	1M0S	dDl
5 w8lcmb	4471	1hS2: 12	1h4Sh6:	1h- - 4h:	1h2: 6: 0	1M86	dDl
5 wpenC	1271	400ah62	: S: - - - h	: 2Sa411	: S1- : 01	4M4	dDl
5 wpenC	1272	6- 0aS	62006	62: 42	6- S- 2	1M84	dDl
5 G8hpcOr	- : 71	100S- 60S	21ah2- S:	2- hSa6: -	2116a2Sh	14M1:	dDl
5 G8hpcOr	- : 72	1h2: 1a	2S24- 4	2S: a22	2SS2: a	- M4:	dDl
5 Gpmb cmb	: 272	22S44	22S1S	22- - 1	2212a	SM4S	dDl
5 new8T	: h72	1a14a	1hSaS	1h1h-	1aaS0	- M8:	dDl
5 nDDr p	6- 72	a0126	a6046	aaSS1	a02h1	SM04	dDl
&El Dpnl cmb	1: 671	: 41h4	: : : 66	: 6: 4:	: : 4- :	2M1-	dDl
&El Dpnl cmb	1: 672	2- S60	2- h6:	2461h	2- aa4	- M26	dDl
Fpecmb	16471	- h6a:	4S20S	4SS11	- hhah	SM0-	dDl
Fpecmb	16472	10S6a	16a14	10- 02	10Sa4	1M6-	dDl
Hwon8Ccmb	16S71	4a- - S	4h- a4	: S10a	4h2h0	1M4a	dDl
Hwon8Ccmb	16S72	2- : : a	2- : 61	2- 04a	2- 622	SM46	dDl
y n8b cmb	16: 71	h: - 6haS	h61a24a	h44SS6:	h: - 1064	SM14	dDl
y n8b cmb	16: 72	4S42- a2	414S: 00	42S604-	412hhS1	2M8S	dDl
tCocmb	11: 71	66aa: 6-	6a04S42	6a1a2ha	60h- 6- 4	1M4S	dDl
tCocmb	11: 72	h2ha1h	h4a- : :	h0S: h:	h4h: hS	2M1:	dDl
tpnC	: 472	11: 2a0a	1144444	1101h1h	11: 6414	1M22	dDl
tpnC	: 672	21ah- - a2	224S0624	22612: - 0	22- S4: 1:	1M66	dDl
tpnC	: 072	: 2- - SS	: 204- 1	: 2a- 2:	: 26- : 2	SM1	dDl
KpEDTnC	a- 71	2h1	2h4	- 1h	- S1	: M8:	dDl
Lr wo	2S671	01: 6h0	020616	02S: 44	0212a6	SM4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&c8mTcnC UwdTnpJ	1
&wTr i Adb r qdCmpr o J	2S2- 7S0712 1: J14J1a	&wTwUc8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S071	: hS46:	61h062	61Sh4S	6S0S: 6	2M4a	dDl
Lr wo	2Sa71	2aS- : 06	- S1S02S	2a6622a	2ah- : Sa	- M60	dDl
LcTGmb	671	2404S0:	24: Sa01	244S0h2	24: : 246	SM0S	dDl
9 wgCr l cmb	2472	24h: a1	24h11-	2: 1200	24hhhS	SM46	dDl
9 wCgwCr l r	: : 72	- 4: h62	- : 1242	- : 4416	- : S: 4S	1M22	dDl
9 n8Eeor Cmb	h471	ha62	1S221	h00h	hh: 4	2M6	dDl
9 n8Eeor Cmb	h: 71	- 060	- hSh	41Sh	- h2a	4M0	dDl
9 n8Eeor Cmb	h671	: : S1	: h1a	: 6- :	: 6a:	- M0:	dDl
9 n8Eeor Cmb	h071	2- - 4	2: 0:	2: : h	24ah	: M42	dDl
9 n8Eeor Cmb	ha71	6S: 2	6- - :	62S2	61h6	2M2h	dDl
u r noEb cmb	1: S71	hh6a2	1S264-	1S14a0	1S1201	1M40	dDl
u r noEb cmb	1: S72	- 1: 2S	- Sh- 2	- 2S12	- 14aa	1M02	dDl
u cdkr 8	6S72	0a42	066h	06: 2	0021	1M6	dDl
NGhl DGhpml	- 172	41- 4	4: 06	4- : 1	4- : 4	: M80	dDl
NnTwl cmb	- h72	2022- -	20aah2	2a2400	200a6a	1M40	dDl
. Ghocmb	1S- 71	6a: h42-	6h21: S2	6h- 26h6	6hS4: 41	SM0	dDl
. Ghocmb	1S- 72	- 1- 1- : 0	- 1- 424:	- 116210	- 12020-	SM1	dDl
l dwCocmb	4: 71	4- h1: - 1	4444: 4S	4- hhh: 2	4412SSa	SM0:	dDl
l dwCocmb	4: 72	14SS2a	144SS:	14: 2a0	14- 1S0	1M12	dDl
l r 8 Ccmb	a271	1SS	h1	116	1S2	12M0	dDl
l r 8 Ccmb	0072	1S-	11S	h0	1S-	6M4:	dDl
l r 8 Ccmb	0a72	0S	00	h1	0h	1- M4a	dDl
l c8dnC	2a71	1S6h11Sh	1Shaa262	1Sh46122	1Sa0: 164	1M4a	dDl
l c8vr p	1S071	4160	- h10	4- Sh	41- 1	4M4S	dDl
l c8vr p	1Sh71	- h: h	4- : 1	41Sh	414S	4M0a	dDl
l nocmb	2- 72	: : - h0	: 4h12	: ah01	: 6420	- M4-	dDl
l TpnCTcmb	a671	14h444	1: : 6hh	1: 0101	1: 41S4	2M06	dDl
l TpnCTcmb	aa71	1- 120a0	14S160-	142S6: -	1- 0a- 01	4M4a	dDl
l m8mp	- 471	2h- 0: S	2a: 42h	2aa- 61	2ah1aS	1M46	dDl
Ar pecmb	1: h71	h02h: 0-	h6- 1h4a	h66- S64	h604a62	SM12	dDl
Ar pecmb	1: h72	- hS0: 1S	- hS04- 0	4S1: 66h	- h4- : - h	1M4a	dDl
AGw8cmb	2S- 71	21a4	22Sh	210:	21ah	SM0h	dDl
AGw8cmb	2S: 71	4hh-	: Sh-	4hS1	4hh6	1M12	dDl
AcC	11a71	2Sa: S	2Sha-	22S- :	212ah	- M8:	dDl
AcTwCcmb	4071	1S- 4a1	1Sa044	1S062S	1S661:	2M0S	dDl
RpwCcmb	2- a71	: - SS-	: 210:	: - 60-	: 2h: S	1M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- 1	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	- 1h0h	- 1441	- 1a46	- 10: :	SMda	dDl
YTTr peomb	10271	1ShS:	112- S	11S40	11S6S	1M40	dDl
YTTr peomb	10272	: 4hS	: 44S	: 6S1	: : 11	1MMS	dDl
YTTr peomb	10671	a: h:	a42a	0h: -	a- 2:	4M8S	dDl
YTTr peomb	10672	1- ah6	14Sh0	14- - 6	1411S	1M16	dDl
YTTpomb	ah71	12a: S044	120ah62a	12h00: a4	12a026: 2	SM04	dDl
YTTpomb	ah72	1204hah	12h6442	1- 24S02	12ha: S1	1Mdh	dDl
ZdCd	6672	: hS16	: h: - 1	6S104	: h: 04	SMM0	dDl
ZqpdnComb	hS71	2S104	22- 44	2S- : 0	2Sh: a	: M04	dDl
ZqpdnComb	h171	44a4	40S1	: 1Sh	406:	6M06	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tu wb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	2J1J0	2JSJ-	2J10JS	2J12	SM26	dDl
qCTb nCh	12171	- 2SS	- 242	- 6JE	- - 60	0M-	dDl
qpl r Ccl	0J72	116J	11E6	11 S	11 1	1M1	dDl
Bwpcmb	1- J71	16 - 4E	10240J	10S6	10SJS4	1M21	dDl
Bwpcmb	1- 071	2E E-	- SSJJ0	- SSES1	- SS1- 2	SMJ	dDl
Br ph8mb	E71	162E	1006	16E4	16EE	4MJ	dDl
Bdl b mTG	2SE71	664460E	6 J 1 4	6 J61- 2	60 6- - 2	1M1	dDl
Bdl b mTG	2SE72	- 224- - S	- 10JE1	- 220 J	- 2SE- 6E	SMES	dDl
Bpmb cCr	171	J2- 4	J4J1	JE J	JJJ0	6MEJ	dDl
5 wob cmb	1S 71	01	121	E2	E4	26M0S	dDl
5 wob cmb	1S671	4226	4S06	- 26	4S42	JM8S	dDl
5 wob cmb	11171	1JJ6	164	164	1610	- M26	dDl
5 w8lcmb	4- 71	JE- 0E	JE -	JE- S4	JEJS0	SM4E	dDl
5 w8lcmb	4471	E 0240	1S1S JS	1SS- - 41	1SSS40E	1M21	dDl
5 wpenC	1271	2EES 2	- S0 6 6	- S6422-	- S44J0E	1MJ	dDl
5 wpenC	1272	- 02 1	- 0- S6	- 6E E	- 01E2	SM40	dDl
5 G8hpCr	- J71	2S004- 1E	2J1- - 0S6	2012661E	24- 44 1	1- M4	dDl
5 G8hpCr	- J72	21S 1S	21JJ02	22S4- -	21J6SJ	2M4-	dDl
5 Gpmb cmb	J272	1 S6	1 2J2	1 16	1 624	1M0-	dDl
5 new8T	JE72	16- 0-	1J JE	1J J6	16S2E	1M6	dDl
5 nDDr p	6- 72	JE0EE	J 6E	JE1S6	JE2S1	SME4	dDl
&hl Dpnl cmb	1J671	4ES41	4ES 2	4E1E1	4E1SJ	SM16	dDl
&hl Dpnl cmb	1J672	2S462	1EJ-	2S22E	2SS06	2MIE	dDl
Fpecmb	16471	- - E20	- 4 - S	- 4 S	- 4J46	1MJ	dDl
Fpecmb	16472	1- J60	14111	1- EE4	1- E1	2M86	dDl
Hwon8Ccmb	16S71	42J20	42- 6S	4- S4J	42644	SM4	dDl
Hwon8Ccmb	16S72	2S- S2	1EE12	2S1EE	2S1-	1M8S	dDl
y n8b cmb	16J71	E- - 2 4S	E- J- 226	E4J2602	E- 0EJ0E	SM0	dDl
y n8b cmb	16J72	416S6SS	4SS1JSJ	411ES21	4SE- 0SE	2M82	dDl
tCocmb	11J71	60EJJ4J	6EJ62J	6 0 160	6 066J0	1M10	dDl
tCocmb	11J72	E0E E-	E- 62- S	E4E- - 4	EJJ1J2	2MJ	dDl
tpnC	J472	J- JS6	4112E	- JES6	4- J1-	1M80	dDl
tpnC	J672	16- - 044-	16- 06614	164- JS4	16- - S- J	SMS	dDl
tpnC	J072	- EEJ1	- J0 6	- E6S0	- 44	SM0S	dDl
KphDTnC	- 71	- S2	- SJ	2E4	- SS	1ME0	dDl
Lr wo	2S671	41E- 1-	42426S	41E41	42SEE0	SM00	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tuwb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :uwb r :a	SJ6q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 rwC	5 NI . l &	RCdT
Lr wo	2S071	- 40S- 1	- J6SJ2	- J12SJ	- J142E	1M2	dDl
Lr wo	2S 71	164S224	1604- - 6	16JSJ0	16JJS46	1M36	dDl
LdTGmb	671	241E2EE	2404262	2J4JS4-	240EJ- J	2M4	dDl
9 wgCr l mb	2472	1J6SS6	1J 4JJ	1J0SJ0	1J0102	SM0	dDl
9 wCgwCr l r	JJ72	- J1S1	- 4E 2J	- 4ES2J	- 4EEJ6	SM2E	dDl
9 n8heor Cmb	E471	01J2	0200	6 J	01SJ	2M2	dDl
9 n8heor Cmb	EJ71	- 6J1	- 2E2	- S- 4	- - 26	EM2	dDl
9 n8heor Cmb	E671	464-	4J- 4	46S1	4JE-	1M1E	dDl
9 n8heor Cmb	E071	22E2	21JS	21JE	22SS	- M61	dDl
9 n8heor Cmb	E 71	J6- J	J- J1	J26	J41	- MJ	dDl
ur nohb cmb	1JS71	1E4	E1121	EE26	E040	1M64	dDl
ur nohb cmb	1JS72	20 JE	20- 61	20201	204E0	1M1J	dDl
ucdkr 8	6S72	J 21	6S4J	J E	JE21	1M42	dDl
NGhl DGhpml	- 172	1ESE	2242	2210	2122	M0J	dDl
NnTwl l mb	- E72	1JESS4	16S14	161- 0-	16S10J	SM04	dDl
. Ghocmb	1S- 71	6 441J6	6 611- J	6 0JE2-	6 6S4SJ	SM2-	dDl
. Ghocmb	1S- 72	- 20S4 0	- 10S 4-	- 2SS61J	- 21- E 2	1M1E	dDl
l dwCocmb	4J71	4- J66J	44S - 0-	44- 101-	44S J -	SM12	dDl
l dwCocmb	4J72	14J- - 2	14- 211	1441S	144210	SM04	dDl
l r 8 Cmb	271	4J	02	J4	J0	24M02	dDl
l r 8 Cmb	0072	E-	1S-	1S0	1S1	6M0	dDl
l r 8 Cmb	0 72		00	0-	0E	EM0E	dDl
l 8dnC	2 71	1S- 441	1S622J2J	1S- 6E01E	1S4J 0	1M6	dDl
l 8vr p	1S071	2660	24SE	2610	2J64	JM4	dDl
l 8vr p	1SE71	2S 4	1 JE	22JE	2S60	EM0S	dDl
l nocmb	2- 72	J2S00	J1JJS	J1 - S	J1 1E	SM1	dDl
l TpmCTcmb	671	62SS	S- 6	J- 2E	6J22	1M0S	dDl
l TpmCTcmb	71	02 - E-	0J- - J	0- 6SS	04S110	1M0S	dDl
l m8mp	- 471	2010ES	20- 6	20244E	2020S	SMIE	dDl
Ar pecmb	1JE71	E- - EJS	E 414 0	E 24JJ1	E6 - - - S	2M6	dDl
Ar pecmb	1JE72	4S0S - J	- E12E12	- E- - J14	- E0242S	2M16	dDl
AGw8mb	2S- 71	10SS	1J 4	16J	1640	- MIE	dDl
AGw8mb	2SJ71	4S06	4S26	4S42	4S4	SM0-	dDl
AdC	11 71	11- 6-	110E0	12J1J	11 E2	4MIE	dDl
AdTwCmb	4071	0E1J2	0EJSJ	000EJ	0 10	1M1J	dDl
RpwCmb	2- 71	- 6 6-	- 06ES	- 6 -	- 01- S	1M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	3 - 44671	tCl Tpmb Cr T:u wb r :a	N
5 8r CTI wb D8 :t&:a	9 y SU- 2	&8mTcnC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	J172	2JEJ0	2J616	2JJ06	2J010	SM1	dDl
YTTr pecmb	10271	2	02	J-	S-	SM0J	dDl
YTTr pecmb	10272	- E0-	414S	- E 4	4S- 2	2M1	dDl
YTTr pecmb	10671	0J11	0- 20	026E	0- 6E	1M01	dDl
YTTr pecmb	10672	1- 41-	12 12	1- 041	1- - 22	- M4	dDl
YTTpcmb	E71	126EJ12-	1- SESSE	12E441- 1	12ESE0 4	1MJ	dDl
YTTpcmb	E72	1- 22 4J	12 E2SJ	1- S66EE	1- S62JS	1M2E	dDl
ZdCd	6672	- 6J10	- 02J2	- 6SEE	- 662-	1MIE	dDl
ZqpdnCcmb	ES71	1- 6ES	14141	1- 4J0	1- 06-	2M-	dDl
ZqpdnCcmb	E171	2E10	- SJE	- 1- 4	- S- 0	- M62	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMt8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 2014	4 62u6	4u660S	4 1u S	SR	Qt I
d. iqe C. E	12171	222J	2SSS	24- 4	222S	R00	Qt I
dIl p. qO	0J72	10SJ	16- -	162S	16J-	2R00	Qt I
Bwldpe	1- J71	- S4S64	- 22206	- 14- 1S	- 1- JJS	2R 1	Qt I
Bwldpe	1- 071	J- S012	JJJJ- -	JJ- Ju1	J466Su	2R12	Qt I
BplE8dpe	71	- SJ0	- 102	- S01	- 1SS	2RS-	Qt I
Bdqe biG	2S 71	6u6 JS	0SJ 04u	6 4- 011	6 J0uS-	1R u	Qt I
Bdqe biG	2S 72	- 1u J-	- 2J 10	- 1S1- JS	- 1u- - J6	2R4u	Qt I
BIQe q p	u171	J1S1	J46u	J- S1	J2 S	- R40	Qt I
9 wne dpe	1Su71	1- -	1- -	1- -	1- -	SRSS	Qt I
9 wne dpe	1S671	4- 42	4SJ	4SJ1	41J1	4RSS	Qt I
9 wne dpe	11171	1J 1	1- 0J	1J2u	14 u	0R41	Qt I
9 w8Qdpe	4- 71	1 SJ4S	1 2J60	1 - Suu	1 2S6J	SR0S	Qt I
9 w8Qdpe	4471	- 2u 162	- - S2- S6	- - 2- -	- - SJ1- 6	SR1-	Qt I
9 wIr C.	1271	- 4- u0u-	- 4 - S46	- 641uu0	- J24J02	2R u	Qt I
9 wIr C.	1272	44242	4- J S	44 11	4424u	1R4	Qt I
9 G8Clq p	- J71	2Su60224	24626JS2	26021024	24S01u10	12R 2	Qt I
9 G8Clq p	- J72	2S Ju4	21SS	21J1 2	21162J	1R46	Qt I
9 GlQe dpe	J272	2JS4	24 22	2J- u	2J12S	SR 6	Qt I
9 Qr w8	J 72	- 2166	- S- 22	- S 0	- 1162	2R	Qt I
9 Qt t pI	6- 72	0- 1 0	0- - 1J	04S- 2	0- J1J	SR61	Qt I
TEI t IQl dpe	1J671	6 4 1	6uuS-	6 140	6 140	SR1S	Qt I
TEI t IQl dpe	1J672	2u- 20	2u4- 0	2 24J	2u60S	1R0J	Qt I
UIr dpe	16471	4 - S	4 0S	J12Su	JS162	1R 2	Qt I
UIr dpe	16472	2S4 2	2S2J2	2S16J	2S- S-	SRu-	Qt I
HwnC8q dpe	16S71	J0 6S	6S 6J	6S1 4	J 0S0	2R61	Qt I
HwnC8q dpe	16S72	2uu41	20	2u26S	2u- 60	1R12	Qt I
h C8e dpe	16J71	u 0- 0	644222	02S2	0J- 60	1R-	Qt I
h C8e dpe	16J72	41J4102	4S u- - -	4S11J- J	4SuuS1-	1R06	Qt I
&ndpe	11J71	6 611J1	0104u- 6	0S2u- Ju	0SJ40u2	1R1J	Qt I
&ndpe	11J72	62J00	60- - 2	42- 42	J0410	1R	Qt I
&C.	J472	10u4S06	1uSSu11	1062- - 4	10u24S0	1RSu	Qt I
&C.	J672	- 266 u- -	- 1uS4214	- 24 S41S	- 2- 214u6	1R41	Qt I
&C.	J072	00SuuJ	04uJ- 6	00S246	06- 222	1R60	Qt I
KIEt iC.	u- 71	- 2J	- 42	2 4	- 2S	0R01	Qt I
Lpwn	2S671	- 62J14	- 0J102	- 6 u 1	- 6 1 2	1R02	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMt8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	2 S- 6	- S66u-	- S- u6-	- S- 1 4	1R2u	Qt I
Lpwn	2Su71	142SJ20	144426u	14- 0uJ-	14- 4216	SRu6	Qt I
LqiGdpe	671	2J16 46	2J6u- 1S	2JS- 46	2J2 0- 4	1R J	Qt I
y wg. pl dpe	2472	61uJ 2	61- 0	6S 416	61- - 6	SR0J	Qt I
y w. gw. pl p	JJ72	622JSS	62SJ- 0	62J04u	622 2	SR42	Qt I
y C8Er np. be	471	12Ju	126-	124 u	12J0J	SR10	Qt I
y C8Er np. be	J71	- 610	4S- 4	- J	- u0S	JR04	Qt I
y C8Er np. be	671	J4uJ	611u	J uJ	Ju6-	JR0S	Qt I
y C8Er np. be	071	2010	22- 4	2J0J	2JS	R 1	Qt I
y C8Er np. be	u71	626u	6S20	626S	61uJ	2R22	Qt I
mpOnEe dpe	1JS71	12- 06u	12402u	124S42	12410	SR4S	Qt I
mpOnEe dpe	1JS72	- 0646	- uS61	- 06-	- 00u2	SR64	Qt I
mqOkp8	6S72	14- u1	1- 64S	14S 0	14S-	2R66	Qt I
NGOI t GOIbI	- 172	- S42	- S10	2 42	- SSS	1R0-	Qt I
NOiwI l dpe	- 72	2 16- 4	2u01S6	2u4SSu	2u0Ju-	1R -	Qt I
F GOndpe	1S- 71	0S 622S	0Su22J-	0SJ2- S1	0S06 2J	SR 2	Qt I
F GOndpe	1S- 72	- 2J4 0	- 1 uSSu	- 12- 1u-	- 1 2S62	2RS0	Qt I
DOw. ndpe	4J71	46J42- -	462 2S	4J0J11	461 J2S	SRu	Qt I
DOw. ndpe	4J72	140600	14J 2-	14S201	144624	2R6u	Qt I
Dp8p. dpe	u271	1S0	11	1 2	14S	- - RSu	Qt I
Dp8p. dpe	0072	1JS	1S0	14S	1- 2	10R16	Qt I
Dp8p. dpe	0u72	1	112	6	1SS	11RS1	Qt I
Dq8qC.	2u71	11SS4u	1S60SS- u	11100S6u	1S JS66u	2R J	Qt I
Dq8vpI	1S071	1410	10Su	160J	16SS	Ru	Qt I
Dq8vpI	1S 71	14- -	1JJu	1JJS	1J14	4R62	Qt I
DOndpe	2- 72	J6- 11	JJ 66	J4J0u	JJ61u	1R6J	Qt I
DiIC. idpe	u671	1026S	106uS2	102 S2	1041S4	1R 4	Qt I
DiIC. idpe	uu71	1J 4S- 0	1J 4 -	16126J2	16SSJ4-	SR66	Qt I
Db8bI	- 471	2uS- 0J	2u- 6S-	2u141S	2u10 6	SRu	Qt I
cpIr dpe	1J 71	Su2u0	1SS0u60u	u614u0	4 4u4	1R1J	Qt I
cpIr dpe	1J 72	4S S062	416- SSu	- u06 62	4S4- J00	- R6u	Qt I
cGw8dpe	2S- 71	2242	22S	2J0J	2- 42	uR66	Qt I
cGw8dpe	2SJ71	JuS2	J- 26	J01S	J61-	4R4	Qt I
cq	11u71	1J04-	166S2	161- J	1616S	2R66	Qt I
cqiw. dpe	4071	002u-	0u4J0	004J1	000- S	SRu2	Qt I
5 Iw. dpe	2- u71	01SJS	04646	0- 4uS	0- SJu	2R1	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 - 44671	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T :a	y h SM- -	T 8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	J172	- JSSS	- 4- 4J	- 4 46	- 406-	1R5J	Ol l
Yiiplr dpe	10271	120- 2	1- Su2	1- J 1	1- 1- J	- R2	Ol l
Yiiplr dpe	10272	6- 0	6224	6- 0	6- 2u	1R42	Ol l
Yiiplr dpe	10671	- 2S	1SS0	J12	6- 0	4R5	Ol l
Yiiplr dpe	10672	144 2	1J1u0	14u4u	14u42	2R4	Ol l
Yiildpe	u 71	1- 4 S1JJ	1- 4 4 Ju	1- - 062J	1- 4J- 0 1	SR1S	Ol l
Yiildpe	u 72	1- - - 644	142642	12 6040	1- J220-	4R4	Ol l
Zq O	6672	J 16	J 4J1	6SS4S	J uS2	SR12	Ol l
ZdqOC. dpe	S71	20 2	2uJuS	- SS16	2uu42	- R0S	Ol l
ZdqOC. dpe	171	6420	61- J	6400	6- 46	2R1	Ol l

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCmb	2072	- 4620N	- 4644h	- 41620	- 440N:	SM0h	dDw
qCTb nCE	12171	4210	4NSh	4: Sh	4: 12	6M6	dDw
qpwr Ccl	0: 72	14h4	14hh	14: 0	14N4	1M:	dDw
Bspcmb	1- : 71	- 2hh6N	- - 264:	- - 4hS1	- - 2: S:	SM04	dDw
Bspcmb	1- 071	: h1S10	: h6: N:	: h42- 4	: h- h4:	SM40	dDw
Br pEPmb	h71	2S: 6	1h0S	2120	2S: 1	- M:	dDw
Bcwb mTG	2Sh71	6002N- -	6NN62: S	6hSh411	6N: 616:	1M0	dDw
Bcwb mTG	2Sh72	- - 1Sh22	- - 20S26	- - 14026	- - 10: : N	SM:	dDw
Bpmb oCr	N171	: S6N	: 21N	: : 06	: 2N0	4M4	dDw
5 sob cmb	1SN71	146	1: S	11-	1- 6	1: M1S	dDw
5 sob cmb	1S671	41Sh	42S1	42: 1	41N0	1M02	dDw
5 sob cmb	11171	116-	1ShS	1146	11- -	- M0	dDw
5 sPlcmb	4- 71	2h24: S	2h66- 4	2h- 2Nh	2h4124	SM0:	dDw
5 sPlcmb	4471	4h44h1-	: S- - : NN	4hN11: 6	4hN6: : 2	SMh	dDw
5 spenC	1271	20S464N	20- - N04	20- S1- 2	2022NN:	SMN	dDw
5 spenC	1272	- - : 22	- - 014	- - 622	- - 62S	SM2h	dDw
5 GPmpcOr	- : 71	21: 4h4h1	2: 42h444	20264- h-	24040006	11M0h	dDw
5 GPmpcOr	- : 72	21416:	21NhN2	22- 64S	21Nh2h	2M6	dDw
5 Gpmb cmb	: 272	: 6S6-	: 6NN6	: 6N1h	: 6: Nh	SMN1	dDw
5 nesPT	: h72	- 2: S4	- 2N4:	- 1hS6	- 241N	1M40	dDw
5 nDDr p	6- 72	0- : 1-	021hh	02S0h	02: h0	1M1S	dDw
&EwDpnwcmb	1: 671	: 6S26	: 4462	: 46: 4	: : S40	1M:	dDw
&EwDpnwcmb	1: 672	2- 1: -	22Nh6	22606	22hSh	1M4	dDw
Fpecmb	16471	- hh00	- hhh4	- N016	- h: 62	1M:	dDw
Fpecmb	16472	164- 4	16- S-	1622S	16- 1h	SM06	dDw
HsonPCmb	16S71	4: h- N	40- 00	464: 0	46: h1	1M6	dDw
HsonPCmb	16S72	221N2	22: S2	2- SSS	22: 61	1M-	dDw
y nPb cmb	16: 71	h6hS: hh	hNh21- 4	h0N2S: 1	h0NN262	1M-	dDw
y nPb cmb	16: 72	42h60h2	41: 1202	422: 2- -	42244- 2	1M02	dDw
tCocmb	11: 71	01: 0406	014: 1S4	016216h	01: 4h10	SM12	dDw
tCocmb	11: 72	hhN4h-	h066hS	hh2S1:	hNhS66	1M-	dDw
tpnC	: 472	1: 20- N1	1: 220: -	1: S1N0S	1: 10- - :	SM1S	dDw
tpnC	: 672	202h04S-	201- hN1h	26h00640	201- N2hS	SMh	dDw
tpnC	: 072	640: : 1	6- 00- h	64- hN0	64- Sh2	SM00	dDw
KpEDTnC	N- 71	2h2	2hS	- 10	- SS	: M0	dDw
Lr so	2S671	0001N6	00N16N	06S0N:	002S46	1M26	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU- 4	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	62S: 0S	620h2:	611NN2	62S126	1M1S	dDw
Lr so	2SN71	- Sh0S21	- Sh2640	- S460NS	- S0NN16	SM1S	dDw
LdTGmb	671	24: - S- S	2: 00hN1	2: 0SN4:	2: - - h: 2	2M00	dDw
9 sgOr wcmb	2472	462N- S	461hS0	46S46S	4610- -	SM26	dDw
9 sOgsOr wr	: : 72	10S: hh0	160S- h2	1642- - 6	1602hSN	1M11	dDw
9 nPEeor Omb	h471	12h0-	120hS	12N4N	12N0S	SM0-	dDw
9 nPEeor Omb	h: 71	0411	6: 6N	01- :	0S- N	6M1S	dDw
9 nPEeor Omb	h671	h20N	h10N	Nh0N	h14:	1M00	dDw
9 nPEeor Omb	h071	4- 60	42: h	46Sh	4412	4M36	dDw
9 nPEeor Omb	hN71	11h- h	110- h	121h0	11h: N	1M12	dDw
u r noEb omb	1: S71	hN- 1h	h0S06	h604N	h0- N1	SMN:	dDw
u r noEb omb	1: S72	- S1h4	- S- N:	2h: 66	- SS4N	1M4-	dDw
u dkr P	6S72	1- 6SS	1- N- 4	1- N44	1- 0: h	1M3S	dDw
8 GhwDGhpmw	- 172	16- -	10h2	16SS	160:	6M11	dDw
8 nTswwcmb	- h72	16hS66	1602h6	1606N4	16NS1:	SM1:	dDw
. Ghocmb	1S- 71	020- N- S	0Sh2h10	021014-	01h46- S	1M2h	dDw
. Ghocmb	1S- 72	- 2h0NSN	- 2Nh4S0	- 2460SS	- 200h02	SMN4	dDw
l ds Coomb	4: 71	40S60: 1	40S1: 44	4: NS466	4662h2S	1M-	dDw
l ds Coomb	4: 72	14N0h:	14h10:	14N- 1S	14N06S	SM2h	dDw
l r P Comb	N271	N6	66	1S:	N6	22MN	dDw
l r P Comb	0072	12S	N0	12-	11S	1NM4-	dDw
l r P Comb	0N72	00	N1	0N	0h	2M6:	dDw
l dPdnC	2N71	11SN: 100	111162S-	11146161	1111: N40	SM20	dDw
l dPr p	1S071	16SN	1h: h	1N60	1N11	1SM32	dDw
l dPr p	1Sh71	16: N	1: 2:	16h2	162:	: M4-	dDw
l noomb	2- 72	06: 4-	0: : 12	0- 02S	0: 2: N	1M1S	dDw
l TpnCTomb	N671	2SS- hN	2SS400	1hhNh2	2SS2: :	SM16	dDw
l TpnCTomb	NN71	1N- 6S- 2	1N6: 2- 0	1N- 12: -	1N44104	1M3S	dDw
l mPmp	- 471	204S- S	2N1S0h	2N462S	20hh1S	1M1-	dDw
Ar pecmb	1: h71	hh0: 61-	1SSS: 6h:	1SS6- : 0-	1SS14h6S	SM4:	dDw
Ar pecmb	1: h72	41- N0h2	411N2SN	410hh0h	414: 66S	SM06	dDw
AGs PRmb	2S- 71	1060	162:	1642	160N	4M02	dDw
AGs PRmb	2S: 71	4160	46S1	4S- 4	426N	6M1:	dDw
AdC	11N71	2SS0-	1hh1:	2S- : N	2S11:	1M11	dDw
AdS Comb	4071	0N: 1:	0N4- 2	00644	0N1h0	SM01	dDw
R ps Comb	2- N71	4S- 6:	4S: - 2	4S26:	4S- N0	SM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP u sb r J	S: Nq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	- S2S2	- SN- 0	2h: 61	- S2SS	2M11	dDw
YTTr pe omb	10271	11240	11N14	1Sh6-	11- 41	- NM2	dDw
YTTr pe omb	10272	: 21N	: 62h	: 246	: - 64	4M2N	dDw
YTTr pe omb	10671	NS11	N4N6	0h: -	N1: S	- Mh	dDw
YTTr pe omb	10672	14- : 2	1422:	14- h1	14- 2-	SM61	dDw
YTTpomb	Nh71	1- 4401- S	1- - 1224N	1- - 46112	1- - 6N4h0	SM12	dDw
YTTpomb	Nh72	14116Nh	144- h2S	1414Sh6	142- 2- :	1M26	dDw
ZdCd	6672	- 06- 0	- 0Sh:	- 6024	- 01: 2	1M4-	dDw
ZqpdnComb	hS71	2- 021	2: 2- 2	24: 64	24: S:	- MSh	dDw
ZqpdnComb	h171	: - : 1	: - 06	: N1N	: : 1:	4M06	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DPP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdPP usb r J	S: . qF UMPb

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb oCcmb	2072	1SS2. 01	. N: - 1.	. . N6. 1	. . : 66S	SR 2	dDw
qCTb nCE	12171	22. 6: S	2- N064	2- N206	2- : : 6-	2P1N	dDw
qpwr Ccd	0: 72	1S1. 44	1SS2S6	1S1621	1S12: 0	SR 1	dDw
Bspcmb	1- : 71	22. - . . N	2- 14N10	22N6S. 2	22. N- S2	SP6:	dDw
Bspcmb	1- 071	4S2: S10	4SS64: 6	41S: S60	4S4: : 1-	1R S	dDw
Br pEPPmb	. 71	: 0: 4	: . N.	: 010	: N2S	2R 4	dDw
Bcvb mTG	2S. 71	0- - : 2NN	0S. : 26S	0S- N1. S	01: 6246	2P2S	dDw
Bcvb mTG	2S. 72	- 220: S-	- - - 266-	2406- 22	- S1216-	1: R S	dDw
Bpmb cCr	N171	4- S1	42S1	42N4	4262	1P26	dDw
9 sob cmb	1SN71	11. 6	142.	12. 2	1- S6	NR N	dDw
9 sob cmb	1S671	6- - :	: 06N	: N6S	: . NN	: PSN	dDw
9 sob cmb	11171	14001	14. S6	1: S16	14N. N	SPN2	dDw
9 sPdcmb	4- 71	642- 6N	6: 2. - 0	644- 06	646: 61	SPN0	dDw
9 sPdcmb	4471	1SN: N4N4	1S. - : 4N2	1SN2060S	1SN0- N0.	SR 1	dDw
9 spenC	1271	242604S	242. 2. 4	241- SS1	242- S12	SR 6	dDw
9 spenC	1272	2. - 1-	2. 21-	2N02N	2. SN:	1PS0	dDw
9 GPmpcCr	- : 71	21N61- S2	2: : : S: : 0	20010211	2: S4- S2-	11PN2	dDw
9 GPmpcCr	- : 72	2140: .	21. 2- 1	22: 14N	21. 01-	2R 0	dDw
9 Gpmb cmb	: 272	61006	6- S. 2	6- : . 1	62N1.	1P4.	dDw
9 nesPT	: . 72	6: NNN	604N6	602. 1	66NNN	1R S	dDw
9 nDDr p	6- 72	2. 124-	2. SS44	2. 24- .	2. 1242	SP41	dDw
&EwDpnwcmb	1: 671	1216- :	12N- S4	1261: 1	12: - 6-	2P01	dDw
&EwDpnwcmb	1: 672	: 12N:	: 1646	: - S62	: 1. . 0	1PN1	dDw
Upecmb	16471	60. . 2	6. N06	6. 042	6. 2S-	1R 2	dDw
Upecmb	16472	20S04	20- N:	2N- 14	20: . 1	2R 4	dDw
HsonPCcmb	16S71	. 4: 20	. 6. . -	. 6: S0	. 6SS.	1R 6	dDw
HsonPCcmb	16S72	462- -	4: 0- 2	46S06	46S14	SR 6	dDw
h nPb cmb	16: 71	1S: 124- 0	. . 6: 62:	. N2- : N1	1S1SS: 4N	- P6S	dDw
h nPb cmb	16: 72	4S64404	416. 1- 4	- 2S166:	- N110: N	1- R -	dDw
tCocmb	11: 71	0: 4N2. N	0- - 4: 22	011SN62	0- - 1220	2R N	dDw
tCocmb	11: 72	. 622S6	. 6. . . :	0- 66- 0	NN. 61-	14R S	dDw
tpnC	: 472	20N- 4N:	2041. . -	2N2412N	20N- 2S2	1P4N	dDw
tpnC	: 672	: SS04: 41	: S206S2N	: S4S: 241	: S2: 1. - 0	SR -	dDw
tpnC	: 072	11. - 1. 4	11. N: 6.	12212. 4	12S4- : 2	1P24	dDw
KpEDTnC	N- 71	- 4.	- 0:	- - 4	- : 2	: R 2	dDw
Lr so	2S671	- . 4: 6: N	4S2: SS:	4144N1S	4S- N4. 1	2P4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tusb r J	8 N
9 Pr CTI sb DP t& J	y h SM- :	&dPmTmC MsdTnpJ	1
&sT i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP usb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S071	- - N1: N1	- - 0: 046	- 4: . S: 4	- 4S: 46S	1R 0	dDw
Lr so	2SN71	1: . S260-	16S- 6SN4	16- S216:	16SNS- S0	1R26	dDw
LdTGmb	671	26. 0S6.	2626: 1N	26- : S. 4	26: 2N. 4	1R4:	dDw
y sgOr wmb	2472	1- . S0. 2	1- . - - 10	1- . 11- 2	1- . 1040	SR1S	dDw
y sOgsOr wr	: : 72	: S2662N	: S001N4	: 1- . . N4	: SN126:	1R12	dDw
y nPEeor Omb	. 471	1N- 12S	1. S1- N	1N0: S-	1N6. 2S	1R S	dDw
y nPEeor Omb	. : 71	16: 1N6	10- S- 0	10- - S0	10S: 1S	2R01	dDw
y nPEeor Omb	. 671	1. : - S4	1. N- 02	2S- . 46	1. . 2S0	2R2S	dDw
y nPEeor Omb	. 071	1S: . 0.	1S6. 01	1S6- 4.	1S64- -	SR40	dDw
y nPEeor Omb	. N71	266100	204. - 6	20026S	2020. 1	2R14	dDw
u r noEb omb	1: S71	21. 041	22. : 4S	2- 1. . :	220S. 2	2RN6	dDw
u r noEb omb	1: S72	6N410	6N641	6. 0. 4	6N. : 1	1RS0	dDw
u dkr P	6S72	20SS6	2666N	20- . S	20S21	1R 4	dDw
8 GhwDGhpmw	- 172	1460:	14N. 1	1: 1: N	14. SN	1R62	dDw
8 nTswwmb	- . 72	6N006-	60N- 6-	6N40N1	6N- 6- 6	SR0S	dDw
F Ghoomb	1S- 71	0: 61: 11	0116006	6N6- - . 4	01NS: 6S	4R 2	dDw
F Ghoomb	1S- 72	- 2S46. -	- 1. 0. - 0	24N126N	2. 61- SS	14RS4	dDw
I ds Coomb	4: 71	: S- N602	40S2246	4022140	4N21S21	- R 2	dDw
I ds Coomb	4: 72	1: S: 1S	14N: 2-	1142: N	1- 0064	14R0.	dDw
I r P Comb	N271	0:	: 2	1: :	. 4	: 0R21	dDw
I r P Comb	0072	21S	2- S	210	21.	4R6:	dDw
I r P Comb	0N72	160	10.	1. .	1N2	NR S	dDw
I dRdnC	2N71	112S: 64N	114S4. : .	112NS1- -	112. 6. 1-	SRN.	dDw
I dPr p	1S071	N. . : 2	. 2. S4	. 11: -	. 1- - 6	1R6-	dDw
I dPr p	1S. 71	N. S02	NN4- 4	NN426	NN644	SR42	dDw
I noomb	2- 72	2: 0004	2: 6. 16	261S: N	2: N: N-	SRN:	dDw
I TpmCTomb	N671	N2- 4- 2	N6S16S	N- 0- : N	N4S- 10	2R21	dDw
I TpmCTomb	NN71	0- 66202	0: 0: NSS	040. 6- .	040- . S4	1R4S	dDw
I mPmp	- 471	2. . 4S4	- S2: 4:	- S1- 1.	- S1SN.	SR-	dDw
Ar pe omb	1: . 71	1S062401	1S1S0164	. . - 2: 66	1S2604SS	4R26	dDw
Ar pe omb	1: . 72	4S60. : 1	4S1N- 0S	- 124N2.	- 0- 0S: S	14R2S	dDw
AGs RPmb	2S- 71	21: 20	2S0. 2	22S0N	2146:	- RSS	dDw
AGs RPmb	2S: 71	4. 41.	: 1- - 6	: 244S	: 1S6:	2R.	dDw
AdC	11N71	11S1-	11002	110: :	11: 1-	- R0	dDw
AdS Comb	4071	- 0S210	- NS4- 2	- 004N1	- 06S4-	1R4S	dDw
5 ps Comb	2- N71	2. 1NS6	- S6S02	- SS: : N	2. . 40.	2R4S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Rr CTI sb DP t& J	y h SM- :	&dPnTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP u sb r J	S: . qF UMRo

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	: 172	4110: N	410- 62	41N- : -	41: N24	SRN6	dDw
YTTr pe omb	10271	1: 01S	16NN6	1: N- :	16144	4RSS	dDw
YTTr pe omb	10272	061.	061.	0640	062N	SR21	dDw
YTTr pe omb	10671	12S. N	1212-	1244S	1222S	1R 6	dDw
YTTr pe omb	10672	1: . 6S	1: . 1:	1- 02.	1: 2S2	NR .	dDw
YTTpomb	N. 71	14NS- 2S-	1- . 0. : N6	14S2N- - 4	1420S- 04	- R24	dDw
YTTpomb	N. 72	1- 66- 41	144N: 10	1S6: 2S0	12. - - : :	1: R6S	dDw
ZdCd	6672	: 2N- . .	: - - 2- 4	: - . N- :	: - - N2-	1RSN	dDw
ZqpdnComb	. S71	24S- 14	24. S: .	24: - . .	244. 24	1R0.	dDw
ZqpdnComb	. 171	: 6140	: 6S64	: : N6-	: 6S2:	SR26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d &be q dpe	2072	1S1- 614	1SS2a- -	aa01- 4	1SS4: 6S	SRu-	Ol l
d . iqe C. E	12171	22: - 62	220- u6	2- 2aS-	22u: : S	1R01	Ol l
dll p. qO	0: 72	1S- 02:	1S4: 02	1S- 1uS	1S- u26	SR6u	Ol l
Bwldpe	1- : 71	u02a61	uu2S61	aS- S: 1	uu6S24	1R04	Ol l
Bwldpe	1- 071	16- 66: -	16: 1- 6u	16642S-	16: S041	SRu4	Ol l
BplE&&pe	a71	: 6Sa	: 610	: : S2	: : 06	1R1:	Ol l
Bdqe biG	2Sa71	6: : S6- S	04u- 162	6a124aa	6au2Sa0	6R0-	Ol l
Bdqe biG	2Sa72	- 10S01:	- 216: 44	- 210: uu	- 2S1616	SRu4	Ol l
BlCe q p	u171	4206	4- 10	4- 60	4- 2S	1RS6	Ol l
9 wne dpe	1Su71	14- -	12: 4	1- 0:	1- : 4	6R0:	Ol l
9 wne dpe	1S671	: - 6u	62a-	: u: 1	: u- 0	0Ra-	Ol l
9 wne dpe	11171	14021	1: 264	14- 1S	1406:	- R24	Ol l
9 w&Odpe	4- 71	0- 2211	0- 00u6	0- 2- 0S	0- 412-	SR4-	Ol l
9 w&Odpe	4471	122- S2: 6	12- 6uua6	12: - 0001	12- 0ua04	1R24	Ol l
9 wlr C.	1271	2- 41S- 0	2- : 0a24	2- 2u022	2- 42: 61	SR6-	Ol l
9 wlr C.	1272	2u- 0u	2uSS2	2u- 61	2u240	SR0:	Ol l
9 G&Clq p	- : 71	21a- 044-	2: 16aa2a	201a41S2	240601: u	1SR01	Ol l
9 G&Clq p	- : 72	2S040a	21S2S1	21u2Sa	211a6-	2R6-	Ol l
9 GlCe dpe	: 272	4aa6-	4a41u	4a26:	4a: 4a	SR04	Ol l
9 Or w&	: a72	6- - 1S	6- S2:	6- 1aa	6- 10u	SR2-	Ol l
9 Ot t pl	6- 72	- 61S: a	- : : S44	- 6S00:	- : ua6S	SRa:	Ol l
TEl t lCl dpe	1: 671	11: 24:	112: aS	114u- :	11422-	1R2:	Ol l
TEl t lCl dpe	1: 672	46u- 2	40062	46: 10	40S- 0	1Ru	Ol l
Ulr dpe	16471	6S- a0	6S- S4	61- - :	6S60u	SRa4	Ol l
Ulr dpe	16472	24: S6	2- auu	24- : 6	242u-	1R1S	Ol l
HwnC&q dpe	16S71	u4S: u	u62- S	u6: u2	u: 62-	1R6S	Ol l
HwnC&q dpe	16S72	- a606	41S2S	4Sa6-	4S: : -	1Ru0	Ol l
h C&e dpe	16: 71	a1ua242	1Su10u: S	au00u62	aa616: 1	uR21	Ol l
h C&e dpe	16: 72	4212: 4-	410u- 1:	412a016	410- : 2:	1RSS	Ol l
& ndpe	11: 71	66SaS- 1	0u: 26u2	0S: 0a1a	010- 211	uR0u	Ol l
& ndpe	11: 72	a4a- u1	a- 61- -	a- 02S6	a4SaS6	SR0u	Ol l
&C.	: 472	26- 1S2u	26- 26a-	2: 00114	261- 612	1R21	Ol l
&C.	: 672	46a: 60a0	466122: u	461a04: 0	46: uuu- 0	SRu2	Ol l
&C.	: 072	112- 66u	11S066:	111S- - :	111- uua	SR00	Ol l
KIEt iC.	u- 71	- - 6	- - S	- - 1	- - 2	SRaa	Ol l
Lpwn	2S671	- 41a- 42	- - 06u00	- 41u: 4u	- 4S4a22	SR01	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	&l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u6: a16	2ua: 0S-	2aS2Suu	2uu0aS2	SR60	Ol l
Lpwn	2Su71	1- 4- 0146	1- 44: 0a-	1- 6S- 4aS	1- 4a: 400	SR6a	Ol l
LqiGdpe	671	24- - a16	20aSaa1	2: 400a0	2: aSaS2	0RS4	Ol l
y wg. pl dpe	2472	116141a	11: 0Sa0	11uu: S6	116aSS0	1R46	Ol l
y w. gw. pl p	: : 72	: 1a21- 6	: Sa040S	: S040: 1	: 1214: 2	1R22	Ol l
y O&Er np. be	a471	1u6u0u	1uau26	1uaS4S	1uu: u1	SRu1	Ol l
y O&Er np. be	a: 71	1u4: Sa	1u0- 6-	1u- 644	1u: 102	1RS:	Ol l
y O&Er np. be	a671	2126- u	21- u10	214626	21- 6a4	SR40	Ol l
y O&Er np. be	a071	114- 4:	11u6au	11- : : 6	11: : - -	2R4S	Ol l
y O&Er np. be	au71	2a6- aa	- S: 4au	2a01: :	2aa6u4	1R6u	Ol l
mpOnEe dpe	1: S71	1aaSu:	2S12- 2	2S410-	2S14a0	1R20	Ol l
mpOnEe dpe	1: S72	610a2	6Su: 1	61: 60	614S-	SRuS	Ol l
mqOkp8	6S72	20: S0	26u: a	202u-	20216	1R21	Ol l
NGOl t GOlbl	- 172	12- 14	124: 6	12214	12- 2u	SRaa	Ol l
NOiwl l dpe	- a72	6uuSS2	6a: aaS	6u: - Su	6ua060	SRu1	Ol l
F GOndpe	1S- 71	6: 0Su1u	0: : a: a4	0S1ua42	0S4a0u:	0RS2	Ol l
F GOndpe	1S- 72	- 1a04- S	- 1u461u	- 114: 1a	- 16: : 22	1R41	Ol l
DOw. ndpe	4: 71	440: 6a0	4aa2aua	4: 06a16	46u1u60	: Ru6	Ol l
DOw. ndpe	4: 72	1402S6	140S0:	140010	140- - -	SR2-	Ol l
Dp&p. dpe	u271	11:	1S:	1- :	11u	12Ra1	Ol l
Dp&p. dpe	0072	1uS	16S	1u-	104	0R24	Ol l
Dp&p. dpe	0u72	14u	1u:	141	1: u	14Ra6	Ol l
Dq&qOC.	2u71	1162- 642	11624u2S	116SaS2-	1161a162	SRSu	Ol l
Dq&vpl	1S071	u: 41:	u4a0S	u42S0	u4u64	SR02	Ol l
Dq&vpl	1Sa71	uS1: 1	u2a0:	uS41a	u11u2	1Ra2	Ol l
DOndpe	2- 72	2- 2- uS	2- 142:	2- 1062	2- 1u: 6	SR21	Ol l
DilC. idpe	u671	a: 2S21	a46aS0	a: 06: u	a: 21a:	SR 6	Ol l
DilC. idpe	uu71	u- 6a- u6	u62a- S-	u: S- 0: 0	u: SSu16	1R -	Ol l
Db&bl	- 471	: - 4a24	: - uu66	: 440: S	: - a: 1-	SRa2	Ol l
cplr dpe	1: a71	a: 2- 6S0	1S006: 6S	auu2u6:	1SS61S11	6R41	Ol l
cplr dpe	1: a72	4S4411a	4S: 0600	41Su- 02	4S0SS: 6	SRu-	Ol l
cGw&&pe	2S- 71	10001	10621	101- 0	10: Sa	1Rua	Ol l
cGw&&pe	2S: 71	42- u0	41- 24	4- 44a	42- u0	2R 1	Ol l
cq	11u71	1S4- u	12- 0-	1Sa6-	112: u	uRua	Ol l
cqiw. dpe	4071	- S0u6u	- S4u0-	- S61uu	- S6- 1S	SR4a	Ol l
5 lw. dpe	2- u71	2a: a6S	2ua64u	2a: uu:	2a- u- 1	1R2-	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	: 172	- 642SS	- 66aau	- 6410u	- 6: 12:	SR44	Qtl
Yiiplr dpe	10271	1- 204	142u-	1- uSu	1- 0uu	- R36	Qtl
Yiiplr dpe	10272	646-	60uS	6u: 0	60SS	- R12	Qtl
Yiiplr dpe	10671	1S: uS	1S- - u	1Sa21	1S61-	2R06	Qtl
Yiiplr dpe	10672	14u2S	140u6	1: 6: a	1: Suu	- R2u	Qtl
Yiildpe	ua71	1- S1S- 0a	14u201- -	1- u2- - S6	1- uu6a- a	6R:	Qtl
Yiildpe	ua72	1- - Su6u	1- - 02aa	1- 2S12S	1- 2a42a	SR6:	Qtl
Zq O	6672	: S64a4	: S66u0	4a04: 0	: S- : 46	1R5:	Qtl
Zdl OC. dpe	aS71	22- 1- 1	22- - aS	2- 1604	226S6:	2R1:	Qtl
Zdl OC. dpe	a171	: 16uS	: S64-	: 211:	: 140a	1R40	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUM

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
8be qCdpe	2072	6SJS- 4	6SSJS-	Jh- u66	JhhuS1	SM14	dt l
Ciqe nCE	12171	4- S1	4426	4J4-	442-	2M0-	dt l
Il pCqd	0J72	12- S-	12- - 4	12- 6u	12- - J	SM26	dt l
Bwldpe	1- J71	401h41	4uJJ6-	4u- 262	4uS2JJ	1M12	dt l
Bwldpe	1- 071	u- 0J6J	u46424	uJSJJ4	u44u4u	SM0h	dt l
BplE8dpe	h71	24S6	24u0	2J- 4	2406	2M61	dt l
Bdqe biG	2Sh71	6uS0622	6h0hJ- 0	6u222u1	6u6hu1-	1Mh	dt l
Bdqe biG	2Sh72	- - S- uS6	- 2J1110	- 22SJ6J	- 2Ju4h6	1M2h	dt l
Blne qCp	u171	601S	02J2	0200	0SuS	4M-	dt l
5 woe dpe	1Su71	242	242	260	2JS	JM00	dt l
5 woe dpe	1S671	4J4-	4S26	4- S1	42hS	6M8-	dt l
5 woe dpe	11171	2J2-	2- SS	2- - J	2- u6	JM82	dt l
5 w8ldpe	4- 71	- 162Su	- 2- 1uh	- 226JS	- 2S6u2	1M21	dt l
5 w8ldpe	4471	J4Su4u-	JJ1SuJ2	J4J6uJ4	J4Ju0- S	SM14	dt l
5 wlr nC	1271	6Su0- 6h	66SJ66h	6JhS- 44	64200h4	4Mh	dt l
5 wlr nC	1272	u1uJ-	0hh2J	u241J	u1- hu	1M0S	dt l
5 G8nlqCp	- J71	21S0620u	2JS0S- 66	20SSJh- S	24- u41h1	12M4S	dt l
5 G8nlqCp	- J72	2S1h00	2Su- Sh	212S1u	2S04- J	2M4J	dt l
5 Glne dpe	J272	- 660-	- 66S4	- JhJ2	- 641S	1M8h	dt l
5 nr w8	Jh72	40u1-	4h62-	40606	4u- 01	2M2J	dt l
5 nt t pl	6- 72	102S2S	10S62u	10SJ41	101S6-	SM4h	dt l
TEl t Inl dpe	1J671	6h6Ju	0S- 61	60u22	6h2uS	1Mh	dt l
TEl t Inl dpe	1J672	2u614	2uh0u	2uJ04	2u022	SM0u	dt l
Flr dpe	16471	J- 042	JJhh-	J6S44	JJ26S	2Mu	dt l
Flr dpe	16472	2210J	221- 2	21u02	22S6S	SM04	dt l
Hwon8qCdpe	16S71	Jh2J0	62S0h	61h0u	611SJ	2M62	dt l
Hwon8qCdpe	16S72	2u610	2h6uS	2h1J2	2h1JS	1M12	dt l
y n8e dpe	16J71	hhSh11u	1SSS4S61	h0JhJu6	huhSh22	1M2J	dt l
y n8e dpe	16J72	41u- SS0	412004S	4142Sh2	41JSh46	SM8h	dt l
&Codpe	11J71	0S014- 6	02- h- JJ	6h42J- 6	0Su4442	2M1S	dt l
&Codpe	11J72	hJ- 1h0	hJ2102	hJ2- 4S	hJ2J0S	SM86	dt l
&nC	J472	- S2h2- 4	- S- uSu6	- S4J12h	- S- 04u-	SM26	dt l
&nC	J672	JJS21- JJ	J4616u- h	J- h0J01u	J4J- 0h01	SM10	dt l
&nC	J072	1- h- Jh-	14Sh646	1- 611hS	1- uu14-	1M0u	dt l
KIEt inC	u- 71	- 26	- 1S	- 26	- 21	2M12	dt l
Lpwo	2S671	4hhS2S	4h611J	4h14J6	4hJJ- S	SM00	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Cl ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja-2aS4	TwiwUq8p:mwe p:a	S61 . FUM

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
Lpwo	2S071	41- 1S-	41S1hS	4S6Suh	4Sh0h4	SM16	dt l
Lpwo	2Su71	1h2J06h	1h2h06S	1h42- 1-	1h- 2614	SM4J	dt l
LqiGdpe	671	2J24- 22	2JJ4hh0	2661JuJ	2JuS- S1	2M0h	dt l
9 wgCpl dpe	2472	0h1S1h	u1S6u-	uS1661	uS1121	1M2-	dt l
9 wCgwCpl p	JJ72	uS1u01	uS6410	0hh616	uS26- J	SM4-	dt l
9 n8Er opCbe	h471	201S2	204u6	20J61	20- u-	SM1S	dt l
9 n8Er opCbe	hJ71	611S	6SJ1	J406	Ju0h	JM16	dt l
9 n8Er opCbe	h671	1S46-	1S212	1S- 01	1S- 4h	1M22	dt l
9 n8Er opCbe	h071	- - Sh	- JS1	- J42	- 4J1	- M61	dt l
9 n8Er opCbe	hu71	h162	h60h	h4hJ	h44J	2M00	dt l
mpnoEe dpe	1JS71	1161- 2	11JuJ1	11uJhh	116u61	1M2h	dt l
mpnoEe dpe	1JS72	- J- - S	- 4h4h	- J644	- J- Su	SM1h	dt l
mqdkp8	6S72	24uJh	24huJ	24002	24u02	SM4-	dt l
NGnl t GnIbl	- 172	u16h	0061	0J6h	0u- -	- M12	dt l
Nniwl l dpe	- h72	4S604S	410h1-	4S0110	41SJhS	1MJJ	dt l
. Gnodpe	1S- 71	6h0Sh60	0146600	01u464S	01SS061	1M61	dt l
. Gnodpe	1S- 72	- 21hu6u	- 24614S	- 1h2hu4	- 21h664	SMJ-	dt l
DdwCodpe	4J71	46SJuu-	402J- SJ	4010u- u	46u- SSh	1M4-	dt l
DdwCodpe	4J72	140Su2	140166	146h04	140S04	SM80	dt l
Dp8pCdpe	u271	2- 2	1h0	2S0	212	uM4u	dt l
Dp8pCdpe	0072	12-	1- S	h-	116	16M1S	dt l
Dp8pCdpe	0u72	11S	uJ	124	1S6	1uMJu	dt l
Dqqdn C	2u71	1J6Jh2h0	1Ju444hu	14hh- 26S	1J4hhS1u	2MJh	dt l
Dq8vpl	1S071	2u10	- 1Jh	2uh2	2hJ6	6M8u	dt l
Dq8vpl	1Sh71	2uSS	200J	2JSh	26hJ	6M8S	dt l
Dnodpe	2- 72	61h16	61S0S	62Sh1	616h2	SMJh	dt l
DiInCidpe	u671	2u606u	2hh21S	2h20h-	2h2h24	2M12	dt l
DiInCidpe	uu71	26SSu02	20102- S	266h1Jh	266242S	2M2S	dt l
Db8bl	- 471	- S4hSu	- S- - uu	- S101S	- S- - - 6	SMJ-	dt l
cplr dpe	1Jh71	1S14J40u	1S24J- 1J	1S140Ju1	1S10h4Ju	SM16	dt l
cplr dpe	1Jh72	4S- 2u41	4S100- 1	4S00u24	4S420hh	SM00	dt l
cGwq8pe	2S- 71	2410	2- 0J	2- u4	2- h2	SM12	dt l
cGwq8pe	2SJ71	J1S1	J1h-	J1- 4	J14-	SM1S	dt l
cqC	11u71	u1h4	u6- 6	u4- 6	u422	2M0-	dt l
cqwCdpe	4071	1SS2h2	1S1Shu	hh- 1u	1SS2- 6	SMJh	dt l
RIwCdpe	2- u71	0uhh6	0h- 2-	0h- JJ	0h22J	SM2J	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T :a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T :a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqil
VwCwodpe	J172	6hS4J	6u- 2h	6uhJ6	6u000	SMl0	dt l
Yiiplr dpe	10271	16244	1020S	164S2	166- h	- M2	dt l
Yiiplr dpe	10272	0- u6	00h0	06u6	062-	2M7h	dt l
Yiiplr dpe	10671	11h02	11h40	110- h	11uu6	1M8u	dt l
Yiiplr dpe	10672	1J01S	1J621	162u2	1Ju01	2M26	dt l
Yiildpe	uh71	1- 40h646	1- uJS6Su	1- uSJ0uh	1- 012S14	1M4u	dt l
Yiildpe	uh72	141SJS2	1- 626J1	1- 4J1- J	1- 0206-	2M46	dt l
ZqCd	6672	uh- S6	uu26-	u00hS	uu4J-	SMlu	dt l
ZqdnCdpe	hS71	6- 1u6	6- h02	64h- J	64S- 1	1Ml0	dt l
ZqdnCdpe	h171	14S04	1Ju06	14u2J	14h2J	6M36	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8 l N
LI eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNt . TJ l b DNJt&JaJ	3BI 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9 r l .	F3l y l &	5. dP
qNmb c omb	20:2	1-4	14-	10	1-	11N31	dDP
q. Tb C. h	121:1	-S	0-	77	-7	7 N04	dDP
qpPr . cl	0-:2	4	6	-	-	2SN3S	dDP
Bl pomb	17-:1	160	-s	1SS	1Ss	-SM44	dDP
Bl pomb	170:1	742	1Ss	s7	10s	sSM14	dDP
Br phNNmb	:1	-4	4	4S	40	14N04	dDP
BcPb mTE	2S :1	60SS4S1	60s0-s	661 76s	60S24-7	1N26	dDP
BcPb mTE	2S :2	711000S	72224-0	7102S -	710S004	1N0-	dDP
BpCb c r	s1:1	7042	70 2	7006	700S	SN0s	dDP
Fl ob omb	1Ss:1	s	s	10	11	47N74	dDP
Fl ob omb	1S6:1	77S	7S-S	7726	722s	4N0s	dDP
Fl ob omb	111:1	7-s	74	7-4	7-4	1N7S	dDP
Fl Nlomb	47:1	7S	2s1	2-2	2s1	1SN32	dDP
Fl Nlomb	44:1	77041	77SS6	72--S	77S	1N42	dDP
Fl peC.	12:1	226047S	224-0-2	22 2Ss-	226s427	1N32	dDP
Fl peC.	12:2	2sS-2	20s 4	2s-70	2s161	1M1	dDP
FENCpc r	7-:1	77744s0	71676 -	717SsS0	72S 667	7M41	dDP
FENCpc r	7-:2	1 7sS	1 0S-	1 7 0	1 4 4	SM4	dDP
FEpCb omb	-2:2	1S 0	1S-0	12-0	1170	N71	dDP
FCel NT	- :2	70	47	6S	40	2-N0-	dDP
FCDDr p	67:2	1S7S	s2S	-S	77	11N76	dDP
&hPDpCPomb	1-6:1	2-	10	s	10	-SN31	dDP
&hPDpCPomb	1-6:2	7	0	7	4	47N4S	dDP
Upeomb	164:1	s7	-S	-S	61	71MS	dDP
Upeomb	164:2	70	20	2S	2s	7SN2S	dDP
Gl oONl omb	16S:1	-S	60	1SS	02	7-N2-	dDP
Gl oONl omb	16S:2	127	14S	11S	124	12N3s	dDP
HONN omb	16-:1	47 414	10s2 s	--06-4	7 10s	2N30	dDP
HONN omb	16-:2	41 0 s0	41-s 7	4S0- 4-	41447S	1MS	dDP
t. oomb	11-:1	60s s47	6 -6206	6 67 -1	6 S77-0	1M47	dDP
t. oomb	11-:2	4-061	s-S00	-46-6	61s71	2M14	dDP
tpC.	-4:2	461	-10	411	467	11M41	dDP
tpC.	-6:2	7--1	-0-	470	4-67	24M4-	dDP
tpC.	-0:2	111	210	1s7	10S	71N60	dDP
KphDTC.	s7:1	262	2-2	241	2-2	4N22	dDP
Lr l o	2S6:1	170s	1122	1110	12S6	12N7s	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8 l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNr . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUM

3l pl b r Tr p	9 l PP	F3l 1	F3l 2	F3l 7	F3l 9 r l .	F3l y l &	5 . dP
Lr l o	2S0:1	122s	1S2s	1S22	1S 7	1SM02	dDP
Lr l o	2Ss:1	-4S1	44 -	467	4s4-	1SM34	dDP
LdEcmb	6:1	24S0s64	2-7SS1	2440002	2461ss-	2M7	dDP
9 l g. r Pcmb	24:2	177	2-s	10-	1s	77M	dDP
9 l . gl . r Pr	- - :2	127	107	4S0	27-	64M7	dDP
9 CNeor . mb	4:1	210	2SS	1SS	102	76M04	dDP
9 CNeor . mb	- :1	0-	0-	110	s	20M30	dDP
9 CNeor . mb	6:1	260	142	12-	10s	47M6	dDP
9 CNeor . mb	0:1	60	-s	s	44	0SM	dDP
9 CNeor . mb	s:1	142	60	s7	0	4SMS	dDP
ur Cohb cmb	1-S:1	4S	2S	20	2	7-M-	dDP
ur Cohb cmb	1-S:2	S	1S	0	6	1M04	dDP
ucdkr N	6S:2	20	6S	-7	40	70M	dDP
3 ECPDECpmP	71:2	1Ss	1-s	1 2	1-7	20M-	dDP
3 CTPPcmb	7 :2	612	6S7	1SS-4	0-6	2M04	dDP
y ECocmb	1S7:1	6s62-7s	6 -6162	6s6s4 -	6s -072	SM06	dDP
y ECocmb	1S7:2	72-0-s0	7200S-S	72S4 S4	7246-14	1M-	dDP
l dl . ocmb	4- :1	44- -S66	4-16- -2	47- 0s-	4447sS1	1M0s	dDP
l dl . ocmb	4- :2	14S126	1467s1	1426S1	147S76	2M2S	dDP
l r Nl . cmb	s2:1	1	:-	4	S	SM3S	dDP
l r Nl . cmb	00:2	0	S	S	2	107M21	dDP
l r Nl . cmb	0s:2	1-	14	21	10	22M02	dDP
l dcdC.	2s:1	1sS611	10-s21	1060s	100041	1M42	dDP
l dNr p	1S0:1	160	1s7	110	1-6	22M7S	dDP
l dNr p	1S :1	1 2	1 2	12-	16	22M01	dDP
l Cocmb	27:2	21S 1	21-42	21416	2174	1M3	dDP
l TpC. Tcmb	s6:1	-60	-60	6Ss	-s1	4M14	dDP
l TpC. Tcmb	ss:1	2S10	1410	12-S	1-61	2-M47	dDP
l mNmp	74:1	2-41 2	2- 2S	2-s1-7	2-0422	1M14	dDP
Ar pecmb	1- :1	- 202s	-106 -	6-66s1	-s S7-	SM07	dDP
Ar pecmb	1- :2	4SS-6-1	41S4S40	7 40S07	4S1s 24	1M0	dDP
AEl NNdmb	2S7:1	7SS	410	4-s	7 2	2SM6	dDP
AEl NNdmb	2S- :1	2-	sSS	-S	s 2	M31	dDP
Ac	11s:1	1S42	12SS	12Ss	11-S	sM10	dDP
AcT . cmb	40:1	1-S	142	1-s	1-S	-M6	dDP
5 pl . cmb	27s:1	s7	77	10	44	0sM30	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	n Dr pl TCpla	wl P8l N
Ll eJl b DNJt&Jal	3B1-7 21BL	t. PTpmb . r TJul b r Ja	3s
FNr . TJl b DNJt&Jal	3Bl 21	&dNTC. JRl dTCpla	1
&l Tr J JAcb r JqdOmpr o Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJul b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl .	F3l yl &	5 . dP
Vl . l ocmb	-1:2	20	4S	7S	72	21M7	dDP
YTTr pecmb	102:1	-S	77	0-	-7	7 M04	dDP
YTTr pecmb	102:2	22	77	2s	2s	2SM3S	dDP
YTTr pecmb	106:1	1277	1210	11Ss	11s6	-M02	dDP
YTTr pecmb	106:2	1S701	1S0s2	1S77s	1S4 0	2M76	dDP
YTTpcmb	s :1	12766sS0	122 S-1S	122-17SS	127S2s02	SM4s	dDP
YTTpcmb	s :2	1262s2-	17s2716	172127S	1722124	4M2	dDP
Zc d	66:2	1S7	16S	1-S	17s	21M-	dDP
ZqpdC. cmb	S:1	-60	7 2	7Ss	422	71M27	dDP
ZqpdC. cmb	1:1	42	1Ss	s7	0s	47M7S	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l T Rdpamle pas	S67LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14 6	1-61	1-4S	1-72	2M16	dDP
q. Tde C. h	121J1	16SS1	1010u	107S7	16u20	4M20	dDP
qlPp. cd	0-J2	24u	276	2-6	240	4N3u	dDP
Bl ldbe	17-J1	1u1uu	1 S 0	1u-uS	1u622	2M4-	dDP
Bl ldbe	170J1	7S676	726-0	72004	72S22	7M0-	dDP
BplhNbe	J1	2246	2211	22 1	224	1M0u	dDP
BdPe bTE	2S J1	616-4S6	6u-2S40	601S-S-	6-0- u6	-M1	dDP
BdPe bTE	2S J2	72S2 u2	71-1674	72S1464	71u-76S	SM2	dDP
BlCe c p	u1J1	4S-1	7642	4106	7 -6	0N3-	dDP
Fl oe dbe	1SuJ1	1-4	1uu	142	161	14M0S	dDP
Fl oe dbe	1S6J1	70S	76-1	7 42	7060	4M1S	dDP
Fl oe dbe	111J1	2022	2-uu	2-70	2616	7M04	dDP
Fl Ndbe	47J1	121u	122u1	11 0-	1214u	1M2	dDP
Fl Ndbe	44J1	224110	226 S	2266-1	22- 1	SM0S	dDP
Fl lr C.	12J1	27S14uS	22 4 Su	272 20-	27Su--4	SM0	dDP
Fl lr C.	12J2	20210	2uS-2	20u47	200S4	1M0	dDP
FENCl c p	7-J1	21-S0uu	2S4- -7	2S2S6 0	2S0240	7M7	dDP
FENCl c p	7-J2	170	12u4u	12u4u	1716-	4M10	dDP
FElCe dbe	-2J2	67-1	620-	6S71	621	2M	dDP
FCrl NT	- J2	4u21	4u64	4064	4u16	1N4	dDP
FCDDpl	67J2	u42	u0 7	u6S6	u6S	2M1	dDP
&hPDlCPbe	1-6J1	10	S	u	u	1SSN2	dDP
&hPDlCPbe	1-6J2	7	0	0	6	74M0S	dDP
Ulr dbe	164J1	-S	77	-u	40	26M6	dDP
Ulr dbe	164J2	27	70	1S	27	-0M1-	dDP
Gl oCNdbe	16SJ1	60	0-	12-	u	7-MS	dDP
Gl oCNdbe	16SJ2	11S	177	1-0	177	10MS	dDP
HCNdbe	16-J1	u6677-6	-406uu	-u-0u1	26-6Su	-M7	dDP
HCNdbe	16-J2	4Su606	412 Suu	42241S6	41466-4	1M0S	dDP
t. odbe	11-J1	67666 0	6u0 26	0S-2 72	60662	-M20	dDP
t. odbe	11-J2	u2uSu	47u7-	60 4-	64u67	2N4	dDP
tlC.	-4J2	22 67	27SSu	27-14	27162	1M2	dDP
tlC.	-6J2	42 11-	422-4-	42-6uu	42-0u2	SM0	dDP
tlC.	-0J2	1S4u2	1S-u0	1S670	1S-6	SM0-	dDP
KlhDTC.	u7J1	261	2-4	2-S	2--	2M4-	dDP
Lpl o	2S6J1	u-76	1S7	S64	u S1	7M6	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamle pas	S67LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	000-	u240	001	0 14	7M60	dDP
Lpl o	2SuJ1	7-271	76uuu	7-62S	7- 17	2M41	dDP
LdEdbe	6J1	2774607	24u-- 7	2-112-	2447u42	7MS	dDP
9 l g. pPdbe	24J2	1S17-1	1S7-S1	1S224	1S2760	1M3-	dDP
9 l . gl . pPp	--J2	1740	1707	1777	17-1	1M1	dDP
9 CNr op. be	4J1	10uS4	1u270	10-62	10u6u	1M2	dDP
9 CNr op. be	-J1	21 47	21626	22020	22S	2M0	dDP
9 CNr op. be	6J1	2427u	27-01	2--S0	2447	4M37	dDP
9 CNr op. be	0J1	14S04	17-04	174	1701-	2M2u	dDP
9 CNr op. be	uJ1	74247	7-1u0	7-u64	7-S u	2M72	dDP
mpCohe dbe	1-SJ1	2S	17	2S	1u	21M06	dDP
mpCohe dbe	1-SJ2	7	7	0	4	47M4S	dDP
mdkpN	6SJ2	14 0	144S	17u0	1441	7M12	dDP
3 ECPDECIbP	71J2	277	177	142	16	72M0-	dDP
3 CTl PPdbe	7 J2	01247	01Su4	0S024	01S10	SM70	dDP
y ECodbe	1S7J1	62-u407	6 S6S7S	6 -02-0	60S02-7	-M41	dDP
y ECodbe	1S7J2	771-6S	716 S0-	7222S7	727--04	2M2	dDP
: dl . odbe	4-J1	4S u62	46S-70u	44 646	44SS-0S	6M3-	dDP
: dl . odbe	4-J2	14-02	17 72	14-4 2	14701u	2M2u	dDP
: pNp. dbe	u2J1	021	1	u14	u1u	12M3u	dDP
: pNp. dbe	00J2	20	7S	7S	2	6M4-	dDP
: pNp. dbe	0uJ2	1		S	7	-M2u	dDP
: dNdC.	2uJ1	270770	2760 4	270764	27016-	SM14	dDP
: dNpl	1S0J1	114--	11614	1S 7u	11776	7M12	dDP
: dNpl	1S J1	1S4 6	1S001	1S uu	1S0-2	2M2	dDP
: Codbe	27J2	1 7027	1 6SuS	1u 0u1	1 71 -	1M4-	dDP
: TC. Tdbe	u6J1	2 42	7S74	7S74	7SS7	1M06	dDP
: TC. Tdbe	uuJ1	22061	22 11	27S2u	22 SS	SMu	dDP
: bNbl	74J1	26766u	26-740	26u67u	26-uu4	SM-	dDP
Apl r dbe	1- J1	1u4u2S	00001-	0-2-6-	-010SS	7MS	dDP
Apl r dbe	1- J2	7 7uu1	7 21127	4S 41S2	4SS7S7-	2M10	dDP
AEl NNdbe	2S7J1	2 -	046	0-4	- u	2M07	dDP
AEl NNdbe	2S-J1	22412	27 4u	241u1	27-14	4M3	dDP
Ac	11uJ1	11-S	17S	1742	1260	uM3	dDP
AdT . dbe	40J1	6-7-	6747	- 06	62u-	4M2	dDP
5 ll . dbe	27uJ1	722SS	721 2	72S4	72140	SM26	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamle pas	S67LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	u60	700	0 S	60u	2M07	dDP
YTpIr dbe	102J1	42	-S	0-	-6	71M22	dDP
YTpIr dbe	102J2	2u	2u	77	7S	1SM1	dDP
YTpIr dbe	106J1	1110	12SS	1S0-	1171	-M07	dDP
YTpIr dbe	106J2	1S400	u-	11S77	1S4-6	-M61	dDP
YTTdbe	u J1	11--- -7	12-- 47-	12u72u60	12716Su-	-M46	dDP
YTTdbe	u J2	17-7460	124-76	126-S60	12u0 6u	4M40	dDP
Zc d	66J2	24 0	2244	2440	27 6	-M0S	dDP
ZddC. dbe	SJ1	144-u	14u10	1460-	146-S	1M27	dDP
ZddC. dbe	1J1	7-74	7142	7460	77u1	6M2S	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdPP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N2hSNS	N24020	N14h4N	N22h1N	SMMN	dDw
qCTb nCE	12171	2- 0:	24N4	22h2	2- N4	4NS-	dDw
qpwr Ccd	0: 72	20Nh	201-	2622	20SN	- NSh	dDw
Bspcmb	1- : 71	40464S	4h- 240	4h- : S2	4N01- S	2M02	dDw
Bspcmb	1- 071	N66h4h	N0S2- 2	N001: 4	N0144:	SM0S	dDw
Br pEPPmb	h71	1N- h	1h14	1h04	1hSh	- M4	dDw
Bcwb mTG	2Sh71	02h: 241	0S242: :	6: - 6h6h	6h: 21: :	: M-	dDw
Bcwb mTG	2Sh72	- 26N0- h	- 1: N: - -	- 2S: 26h	- 21SN40	1M02	dDw
Bpmb cCr	N171	646N	0S6h	0: S2	0S1-	0M4S	dDw
5 sob cmb	1SN71	16-	1SN	121	1- 1	21M02	dDw
5 sob cmb	1S671	42- 4	- h60	4126	41Sh	- M20	dDw
5 sob cmb	11171	16: 6	1: 2h	1: 2S	1: 6N	4MM-	dDw
5 sPlcmb	4- 71	0- : 0NS	0: SS- N	0: 0hSh	040hSh	1M1S	dDw
5 sPlcmb	4471	1224Nh20	12: 06: 1S	12: NN- 0S	1240126h	1M4	dDw
5 spenC	1271	4NN16SS	: 2S6S2N	: 1216- :	: S6h0: 4	- M2	dDw
5 spenC	1272	62204	6- Sh4	616: :	62- 41	1M16	dDw
5 GPmpcCr	- : 71	12NS1NN1	16022: 22	1h- 0- 22h	162hh211	2SM2N	dDw
5 GPmpcCr	- : 72	160- Sh	1046N0	1N1S02	104- : 6	- M1:	dDw
5 Gpmb cmb	: 272	- N6: 2	- 6: 1S	- 0S0N	- 041-	2M10	dDw
5 nesPT	: h72	- 066-	- 0666	- N4: :	- 0h2N	1M2S	dDw
5 nDDr p	6- 72	0- hS1	04S: 2	0264:	0- : - -	1MS:	dDw
&EwDpnwcmb	1: 671	: S622	: - : 10	: - : 0:	: 2: 02	- M21	dDw
&EwDpnwcmb	1: 672	21: 4N	22122	216N4	210N:	1M1N	dDw
Fpecmb	16471	416h1	44- 16	421N4	420- 1	- M20	dDw
Fpecmb	16472	10S0N	10S14	16NhN	16hh0	SM4	dDw
HsonPCcmb	16S71	466N2	4hS41	4hS04	4N266	2MM4	dDw
HsonPCcmb	16S72	2- 160	22N1-	224h2	22N24	1M4N	dDw
y nPb cmb	16: 71	1S- 16S06	1S- 2NSN6	h26- 020	hh6h2h6	6M1-	dDw
y nPb cmb	16: 72	42SS: : :	41- 1h14	4Sh6N0-	414- 114	1M20	dDw
tCocmb	11: 71	062h122	0- 001: S	66- 4N: 1	021- 0SN	0M10	dDw
tCocmb	11: 72	h: NS- 1	h: 6h2:	h: : : 14	h: 6N24	SM1-	dDw
tpnC	: 472	2: 4S40-	261: - 0-	2: 206S-	2: 6114h	1MM:	dDw
tpnC	: 672	46Nh2: - 0	40014S06	4: 66: 0- h	460: 04: 1	2M2S	dDw
tpnC	: 072	112S6N-	111: SN6	11S- S40	1112h- h	SMM1	dDw
KpEDTnC	N- 71	- - S	- 4h	- 12	- - S	: M4h	dDw
Lr so	2S671	- Sh: 21	- 2S: 2S	- 2S- 11	- 160N4	1MMh	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	2: 4211	2624N-	26- - h0	26SS- S	1M1:	dDw
Lr so	2SN71	12S4010	1242: 2:	12: 6: - 0	12- 4: h-	2M10	dDw
LdTGmb	671	204SN4N	2: 0SS6-	24N: 416	2: hN00:	: M81	dDw
9 sgOr wcmb	2472	1N6- 2- 2	1N0- 461	1NN00S0	1N04NSS	SM06	dDw
9 sOgs Or wr	: : 72	: - N012	: 4SS01	: - SN- :	: - 6: - h	SM1-	dDw
9 nPEeor Omb	h471	11014	122Nh	12122	12S42	2M46	dDw
9 nPEeor Omb	h: 71	: - 4-	: 226	: 6- :	: 4S1	- M1S	dDw
9 nPEeor Omb	h671	6h6S	0: : 2	04S2	0- S:	4M21	dDw
9 nPEeor Omb	h071	- - 42	- - : S	- 210	- - S-	2M26	dDw
9 nPEeor Omb	hN71	N- 6h	N4N6	h- 12	N022	: MNh	dDw
u r noEb omb	1: S71	N4NS6	N- h42	N41S2	N42N-	SM1:	dDw
u r noEb omb	1: S72	26- 2-	26166	261h6	2622N	SM12	dDw
u dkr P	6S72	2S- : 1	2S: h2	2S1- N	2S- 6S	1M12	dDw
8 GhwDGhpmw	- 172	4: 6N	40: 1	4: : h	4626	2M4	dDw
8 nTswwcmb	- h72	4N2h- :	406442	4NS1S0	40hN2N	SM0N	dDw
. Ghocmb	1S- 71	00112: 0	0- 600h:	66: 66S2	024: 21N	0M42	dDw
. Ghocmb	1S- 72	- 21: 10N	- ShN4- 4	- 1- 46N2	- 14h4- 1	1M1S	dDw
I ds Coomb	4: 71	: S2: N44	4062: : -	446: 1N:	40: 11h4	: M1S	dDw
I ds Coomb	4: 72	1461: 6	144: 6S	144h: S	14: 222	SM10	dDw
I r PP Comb	N271	6h	N4	11h	hS	2NM0	dDw
I r PP Comb	0072	60	NS	11S	N6	2: M14	dDw
I r PP Comb	0N72	h:	Nh	6-	N2	2SM06	dDw
I dPdnC	2N71	14- 6- NN2	146- 640S	14N2NhSS	146Sh0: 1	1M0S	dDw
I dPr p	1S071	262:	1h60	2S10	22S-	16M04	dDw
I dPr p	1Sh71	22- 4	21: S	24SS	2261	: M0-	dDw
I nocmb	2- 72	11440-	1106- 1	1164Nh	1161hN	1M1N	dDw
I TpnCTcmb	N671	6- 0N2N	6: 42: 4	6444: -	64: : 12	1M2N	dDw
I TpnCTcmb	NN71	: 01N: N6	: N2SS0S	: 022612	: 0: - 0: 6	1M8S	dDw
I mPmp	- 471	2h60SN	- SS: - N	- SS000	2hh- 41	SM06	dDw
Ar pecmb	1: h71	1SN6h- 62	1S4N4hhS	h62h1h2	1S- 20N4N	6M1:	dDw
Ar pecmb	1: h72	41616S-	41- N- 0-	4SS- 42:	41S11- -	2M8N	dDw
AGs PPmb	2S- 71	2: h2	2hSS	2: h2	26h:	6M01	dDw
AGs PPmb	2S: 71	6N6h	6644	60h4	606h	1M0h	dDw
AdC	11N71	606S	6h00	01h4	6h00	- M11	dDw
AdS Comb	4071	N1N4-	N4h6S	N2401	N- Sh1	1M1N	dDw
RpsComb	2- N71	: 2- 0:	: 1N4S	: - 1h:	: 240S	1M1S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44.J46	&sTsUdP u sb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	6- 0S0	6- 044	6- 14N	6- : - -	SM-	dDw
YTTr pe omb	10271	1- SS0	120hS	1- : h1	1- 12h	- M16	dDw
YTTr pe omb	10272	6204	6- h1	61S0	62: 0	2M2N	dDw
YTTr pe omb	10671	h: N0	h012	h1h:	h4hN	2MM4	dDw
YTTr pe omb	10672	14664	14Nh2	14: 6h	140SN	1M-	dDw
YTTpomb	Nh71	146N4- 4S	1- 4S: 1: 0	12N6hhS:	1- 6: - 1- 4	6MM-	dDw
YTTpomb	Nh72	1- hh424	1- - N404	1- 21420	1- : - 1SN	- MS-	dDw
ZdCd	6672	46416	46: 2h	44hS4	4: h: S	1MM0	dDw
ZqpdnComb	hS71	2- 0: 4	2: 666	2: 1: 0	24N: h	- MMN	dDw
ZqpdnComb	h171	: 46S	: 026	: N: 1	: 60h	- M2	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdPP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6h02N:	6N: h6S	6NS0Sh	6N0hN:	1M4-	dDw
qCTb nCE	12171	2S2:	2- SS	210:	2160	6M6	dDw
qpwr Ccd	0: 72	- SS:	- 112	- S66	- S61	1M0:	dDw
Bspcmb	1- : 71	4Sh214	4ShNh-	- h062h	4S: : 0h	1M0S	dDw
Bspcmb	1- 071	02- 02N	02214-	02: hh0	02- h: 6	SM20	dDw
Br pEPPmb	h71	1: 2:	16- S	14h4	1: 4h	4M61	dDw
Bcwb mTG	2Sh71	6h10S02	62h1- - 2	662S1: 1	66Sh: 1N	4M04	dDw
Bcwb mTG	2Sh72	- 242N0N	- 2NSNN2	- 2S111S	- 24162-	1M4-	dDw
Bpmb cCr	N171	6N1N	0SS2	01N:	0SS2	2M62	dDw
5 sob cmb	1SN71	11-	121	1SS	111	hM44	dDw
5 sob cmb	1S671	41Sh	- h: h	44: h	4106	6M1:	dDw
5 sob cmb	11171	1: - 6	14- 2	1422	146-	4M-	dDw
5 sPlcmb	4- 71	62h- NS	6- 420h	6- 2664	6- 21S0	SMh	dDw
5 sPlcmb	4471	1S4- S4Sh	1SNS01- 0	1S- NNNS0	1S: 4211N	2M1h	dDw
5 spenC	1271	- : 62140	- 6S2- N0	- 6hS1h0	- 61N244	1MM1	dDw
5 spenC	1272	441SS	4: 01-	4- 1N1	44- - 1	2MMh	dDw
5 GPmpcCr	- : 71	1h: h- S- 1	2- : : 6: 6:	2: hhN0h:	2- S4h464	14M3-	dDw
5 GPmpcCr	- : 72	2S2hS6	2SNh00	21S044	2S0: 4-	1M1N	dDw
5 Gpmb cmb	: 272	- 10h:	- 21NS	- 210S	- 2S4N	SM0N	dDw
5 nesPT	: h72	- : N: 2	- 6Nh1	- : h2h	- 6224	1M0S	dDw
5 nDDr p	6- 72	6- 2: 0	6- - 44	6- 6Sh	6- 4S-	SM2h	dDw
&EwDpnwcmb	1: 671	: - 0Sh	: 4002	: 1hN:	: - 4Nh	2M0-	dDw
&EwDpnwcmb	1: 672	22Sh:	216: 1	21: : 1	21066	1M-	dDw
Fpecmb	16471	4S22S	4S20N	- h6- :	4SS4:	SMMh	dDw
Fpecmb	16472	161S0	1: h46	1: 0S-	1: h1h	1M2N	dDw
HsonPCcmb	16S71	4622-	461: 6	4: 44:	4: h41	SM14	dDw
HsonPCcmb	16S72	22- Sh	216h4	21: 24	21N42	1MMh	dDw
y nPb cmb	16: 71	1SSh- 0: h	Nh: N6h4	h441S42	h4h0N- 2	6M3S	dDw
y nPb cmb	16: 72	4142NN6	42: : N4S	42S66: S	42S10h2	1M:	dDw
tCocmb	11: 71	01006S2	6464NS4	6N021Sh	6N- N102	: M4-	dDw
tCocmb	11: 72	h: 0h6-	h6: S6h	h64: 14	h62: 16	SM41	dDw
tpnC	: 472	2- : : 26:	2- 6: 222	2- - N441	2- : 2h06	SMN	dDw
tpnC	: 672	424ShSh4	42- NS: 2h	42201466	42- : - 6h6	SM10	dDw
tpnC	: 072	1S11462	1S246NS	hh: : S6	1S1S: 4h	1M4:	dDw
KpEDTnC	N- 71	- S2	2hS	- 24	- S:	: Mh	dDw
Lr so	2S671	206S01	202NNS	20N: : 4	20: N- :	1M3-	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	22hh- :	2- 102h	2- 22- 1	2- 12hN	SM12	dDw
Lr so	2SN71	1SNS1Nh	1ShShh4	1S0S60h	1SNS621	SM14	dDw
LdTGmb	671	2: : : 010	22hh- N0	2: 20411	246SN- N	: M01	dDw
9 sgOr wcmb	2472	14: 1: N6	14- S2h4	14S41- N	142N60-	1M06	dDw
9 sOgsOr wr	: : 72	4N: 02S	4N: S- 4	4N2: 60	4N444S	SM14	dDw
9 nPEeor Cmb	h471	1S62h	1ShNN	11S21	1SNNS	2M3S	dDw
9 nPEeor Cmb	h: 71	: SS1	: 2Sh	: 16N	: 126	2M1:	dDw
9 nPEeor Cmb	h671	6N6S	6NN:	6N6h	6N01	SM1h	dDw
9 nPEeor Cmb	h071	- 110	- - h2	- 1Sh	- 2S6	: M3-	dDw
9 nPEeor Cmb	hN71	00N6	N1- 6	0h- 6	0h: 2	2M21	dDw
u r noEb cmb	1: S71	Nh0h2	hSS4N	hS: : 1	hS1- 1	SM4-	dDw
u r noEb cmb	1: S72	2N226	20261	20N- 6	20004	1M0:	dDw
u cdkr P	6S72	2S- - 1	1h: 60	1h644	1hN40	2M12	dDw
8 GhwDGhpmw	- 172	- 460	- 110	- 2N4	- 2Nh	: M12	dDw
8 nTswwcmb	- h72	- 0: NS6	- 60: SS	- 0- S22	- 021Sh	1M14	dDw
. Ghocmb	1S- 71	01- - SN0	6: 2h: SS	6h: 2- 2N	6N016- N	4M11	dDw
. Ghocmb	1S- 72	- 21N066	- 21166S	- 22: h2:	- 21N0N-	SM22	dDw
l dsCocmb	4: 71	46: 0Nh6	42S: N1S	4: h142N	44N: S44	: M44	dDw
l dsCocmb	4: 72	14: NSh	14000N	140h44	140100	SMM1	dDw
l r PCcmb	N271	1S6	11:	11h	11-	: M06	dDw
l r PCcmb	0072	hS	12-	1S-	1S6	1: M1S	dDw
l r PCcmb	0N72	N0	60	04	06	1- M:	dDw
l dRdnC	2N71	1- N1- h6-	1- N12SS:	146hhh- 1	141SN6- -	- M0-	dDw
l dPr p	1S071	22: h	22: S	2S2:	210N	6M3N	dDw
l dPr p	1Sh71	22N4	22- 4	21SS	22S6	4M1S	dDw
l nocmb	2- 72	1122- S	111: : h	11Sh12	111: 60	SM1h	dDw
l TpnCTcmb	N671	: 20hS2	: 2SN: h	: 1N06S	: 22: S0	SM12	dDw
l TpnCTcmb	NN71	46N462-	4024: 6S	401011:	40SN066	SM4:	dDw
l mPmp	- 471	2h4S14	2h: S0h	2h: 66-	2h4h1N	SM2N	dDw
Ar pecmb	1: h71	1S42S160	hS060N0	hNSS14:	h06: 6hh	6MMN	dDw
Ar pecmb	1: h72	4Sh1011	412: h20	4S6N1: 2	4Sh: 26-	SM01	dDw
AGsPRcmb	2S- 71	212:	2S- 4	2- 0:	210N	NM12	dDw
AGsPRcmb	2S: 71	: : 1S	: 2N:	: 4h-	: 42h	2M11	dDw
AdC	11N71	: 0- :	: 0: 1	0- - h	620:	14M0h	dDw
AdSCcmb	4071	64hS0	6- 042	6- - hh	64S16	1M2-	dDw
RpsCcmb	2- N71	420N1	4- 2- 2	42NhS	42h6N	SM1:	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP u sb r J	S6: q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	: N: 26	6SN: :	: h4- -	: h6S:	1M10	dDw
YTTr pe omb	10271	1Sh6-	112NN	1S46-	1ShS:	- MM1	dDw
YTTr pe omb	10272	: 10h	: 212	: SS0	: 1- -	2M1:	dDw
YTTr pe omb	10671	N21h	0N2N	N2: -	N1SS	2MM2	dDw
YTTr pe omb	10672	1- 004	14S- S	1411h	1- h04	1M2N	dDw
YTTpomb	Nh71	1- : 00106	12- 01SN4	1- S6N- S6	1- SS: : 22	4M66	dDw
YTTpomb	Nh72	1- 20S1S	1- - 6N2S	14S61: S	1- : 666S	- M1N	dDw
ZdCd	6672	- 0N64	- 6- 1-	- 0Nh4	- 0- : 0	2M42	dDw
ZqpdnComb	hS71	210: h	21N: h	2S: 4h	21- Nh	- M41	dDw
ZqpdnComb	h171	4N6N	4hS1	44: 1	404S	: M2h	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdPP usb r J	S66q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	0h6: : :	0NNS: h	0N2h2h	0Nh1N1	SMM0	dDw
qCTb nCE	12171	10SS	1h: S	1NSS	1N10	6M1-	dDw
qpwr Ccd	0: 72	- S14	2hSh	2h20	2h: S	1M1S	dDw
Bspcmb	1- : 71	0S: : : :	01ShNh	01hh4:	01216-	1MS2	dDw
Bspcmb	1- 071	12011S1	120406:	120112:	1202- - S	SM10	dDw
Br pEPPcmb	h71	02N1	0SSS	042N	02- 6	- MS1	dDw
Bcwb mTG	2Sh71	60- 6NhS	6N11066	0S4SSN6	6N62h14	2M1S	dDw
Bcwb mTG	2Sh72	- 1221S6	- - 401: 1	- 2Nh- : 0	- 2: 2N02	- M1h	dDw
Bpmb cOr	N171	h10N	h: 62	1S4- 0	h026	6M04	dDw
5 sob cmb	1SN71	2S4	10:	2- N	2S6	1: M22	dDw
5 sob cmb	1S671	: 1- 4	: 46S	: S: 1	: 21:	4M14	dDw
5 sob cmb	11171	22N0	2- 6h	2414	2- : 0	2M0-	dDw
5 sPlcmb	4- 71	22- S: 6	22NSh-	22N- h6	226: 1:	1M12	dDw
5 sPlcmb	4471	- Nh1Nh:	- 0h- S2-	- h26NN2	- N0S6SS	1M0h	dDw
5 spenC	1271	- hN6S0-	42S: - 4h	424NN1N	4146040	- M1S	dDw
5 spenC	1272	: 21: 2	: 2S06	: 204:	: 2- 24	SM0S	dDw
5 GPmpcOr	- : 71	210h- SN0	2: 6h0- N0	2N1h: hS2	2: 22N0h2	12M0h	dDw
5 GPmpcOr	- : 72	2214: S	22- 02:	220- : 6	224100	1M-	dDw
5 Gpmb cmb	: 272	244- 4	2400:	240S:	246- N	SM0-	dDw
5 nesPT	: h72	- 02h6	- 06: S	- 0NS-	- 0: N-	SM0h	dDw
5 nDDr p	6- 72	6: - 0S	6424N	6- h- 0	64: 1N	1M10	dDw
&EwDpnwcmb	1: 671	- 0N4S:	- N00N1	- N420:	- N- 4N0	1M24	dDw
&EwDpnwcmb	1: 672	161- - 6	1: 0: hh	1: h1: 4	1: h- 6-	1M1N	dDw
Fpecmb	16471	- ShN04	- 12644	- 21: hh	- 140S6	1M1:	dDw
Fpecmb	16472	12h: hN	12N: 46	12: 046	120h6-	1M16	dDw
HsonPCcmb	16S71	- 2: 4- 6	- 2SN06	- 2: - 64	- 2- Nh2	SMM1	dDw
HsonPCcmb	16S72	1: 42NS	1: 424h	1: SNNh	1: - 1- h	1M20	dDw
y nPb cmb	16: 71	h: N6SNN	hh64N2h	1S- N26: 0	hh00N: N	- M1h	dDw
y nPb cmb	16: 72	4S: - - 0-	42: 0244	4- - 4- N1	4214hhh	- M14	dDw
tCocmb	11: 71	0Sh- 44:	011- 6N4	020N: SN	0161N0h	1M12	dDw
tCocmb	11: 72	h- N- 06	h6006h	h0N4: 1	h61: - 2	2M16	dDw
tpnC	: 472	4S- 6410	41: 416h	4S12- Sh	4S606- 2	1MM0	dDw
tpnC	: 672	0- h4- 4: 0	0- - N6: S4	0- - h- S- N	0- : 04- - -	SM1-	dDw
tpnC	: 072	1h2NNS0	1N66111	1Nh620N	1Nh0S6:	1M0:	dDw
KpEDTnC	N- 71	6N1	0S1	6h:	6h2	1M1N	dDw
Lr so	2S671	424- 0h	422N0h	42NN6:	42: - 0:	SM0-	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU10	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP usb r J	S66q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- 4NhSh	- : 1: - 2	- : 12h:	- : S: 0h	SM41	dDw
Lr so	2SN71	10S16- h	16h211h	10241hh	10S: hN6	SM10	dDw
LdTGmb	671	24hS: NS	24NShN2	2610N4N	2: 2hNS-	- MS2	dDw
9 sgOr wcmb	2472	6042SN	60- h40	66Nh2N	602- 61	SM44	dDw
9 sOgsOr wr	: : 72	20- h- 40	2064h02	2021: 42	2041h: 4	SMMS	dDw
9 nPEeor Omb	h471	1- 2: 0	1- 66:	1- N- 2	1- : N:	2M1N	dDw
9 nPEeor Omb	h: 71	h4N0	1SS46	h: 62	h6hN	- M1-	dDw
9 nPEeor Omb	h671	11- 40	11064	116h0	116S2	1M1-	dDw
9 nPEeor Omb	h071	: h- :	61h-	6S1N	6S4h	2M1N	dDw
9 nPEeor Omb	hN71	1: : S1	14h: S	14060	1: S02	2M-	dDw
u r noEb omb	1: S71	601: NN	6N- - 00	6NhS6h	6N1- 4:	1M1	dDw
u r noEb omb	1: S72	21S: 1:	2S01N-	2S4: SN	2S04S2	1M4:	dDw
u cdkr P	6S72	10011	104S1	10- 61	104h1	1M1S	dDw
8 GhwDGhpmw	- 172	- 1- 4	- - SS	- 242	- 22:	2M62	dDw
8 nTswwcmb	- h72	0- 66h:	040: 6h	0- 1SSS	0- N421	1M14	dDw
. Ghocmb	1S- 71	6N40614	0S: 6NNN	02: N2: 4	0S: 42: 2	2M11	dDw
. Ghocmb	1S- 72	- S0N2- 6	- 1h- N: h	- 20- Sh:	- 1N10- S	- MSN	dDw
I dsCocmb	4: 71	46: N64S	46: Sh00	40N116-	46h6h20	1M16	dDw
I dsCocmb	4: 72	1420- 1	14010-	1: 1N44	14024h	- MSh	dDw
I r P Comb	N271	412	41S	46:	42h	0M24	dDw
I r P Comb	0072	02S	01-	6hS	0SN	2M-	dDw
I r P Comb	0N72	4: 1	: 2S	401	4N1	0Mh	dDw
I dPdnC	2N71	14: S410:	1: 42: 6- 4	14hN44- -	14h01414	- MSN	dDw
I dPr p	1S071	2210	22: h	2S42	2102	: M2h	dDw
I dPr p	1Sh71	2110	2: 60	2S: h	2240	12MN	dDw
I nocmb	2- 72	4461h	44Sh2	4- : N2	44ShN	1M1N	dDw
I TpmCTomb	N671	160- 6S	10- : : 2	104112	10160:	2M1N	dDw
I TpmCTomb	NN71	1: N: S1-	1: 04: - N	1: 0: 0SS	1: 0N410	SM6	dDw
I mPmp	- 471	2NN266	2h1S0-	2N4- 16	2N0NN:	1M1N	dDw
Ar pecmb	1: h71	hNNh: 04	1S1h4N: 2	1S244S46	1S1Sh4h1	1M1S	dDw
Ar pecmb	1: h72	- h0- 60h	42- 402:	4210462	4141h: :	- M2	dDw
AGsPmb	2S- 71	- - 60	- - 60	- - - 4	- - : 6	SM0	dDw
AGsPmb	2S: 71	N- : -	0hh4	N: - 6	N2h:	- M2	dDw
AdC	11N71	16- 00	102- 0	16: 20	16014	2M0:	dDw
AdSComb	4071	4616h2	4NS262	40h402	40- NSh	2M42	dDw
RpsComb	2- N71	1S2- 2N	1S- N0:	1S62N:	1S416-	1M1	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP u sb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	404- :	4NS4S	46120	402S1	2N30	dDw
YTTr pe omb	10271	h: 2N:	h- - 46	hNh6-	h: N6:	2M1N	dDw
YTTr pe omb	10272	40S61	461S2	44N21	4: hh:	2M14	dDw
YTTr pe omb	10671	622: 6	: hh0h	61- 4-	611h-	1MN0	dDw
YTTr pe omb	10672	- h0S4	4S12N	4S: 2-	4S11N	1N32	dDw
YTTpomb	Nh71	16Nh: Shh	1022N: h:	1006N- S-	102h0- - 2	2M:	dDw
YTTpomb	Nh72	1046112	10hSN20	10h- 2- 2	1006024	1M1h	dDw
ZdCd	6672	h1S: 4	h1: h0	h2SS-	h1: : 1	SM12	dDw
ZqpdnComb	hS71	2224-	22h: -	2- h: 4	2- S: S	- N0-	dDw
ZqpdnComb	h171	: S26	4N4-	: 21N	: S2h	- N0-	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N- - 0h:	N16h: 0	N1: - : :	N22S- :	1M24	dDw
qCTb nCE	12171	10SS	160:	1NSS	102:	- MM-	dDw
qpwr Ccd	0: 72	- 1: S	- SNh	- Sh0	- 112	1MS0	dDw
Bspcmb	1- : 71	0: : 02N	0- hhh:	0: h42-	0: 1016	1M10	dDw
Bspcmb	1- 071	1- - 0h- N	1- - - 22N	1- 42NNh	1- - NS1N	SM16	dDw
Br pEPPmb	h71	0- 4:	0411	0: : 2	04- 6	1M4-	dDw
Bcwb mTG	2Sh71	6641NN4	6h4- 12:	6h126: :	6N- 2: : :	2M4-	dDw
Bcwb mTG	2Sh72	- - S6460	- - 4h26S	- 2212: :	- 2h2- 20	1MMN	dDw
Bpmb cCr	N171	1S: 01	11- 6-	11h- S	112NN	6MS:	dDw
5 sob cmb	1SN71	160	10h	101	102	- M0S	dDw
5 sob cmb	1S671	: - S1	: 11N	: - h-	: 201	2M06	dDw
5 sob cmb	11171	2: h-	20S0	26hh	2666	2M4S	dDw
5 sPlcmb	4- 71	2- 4h0N	2- : NS1	2- 6646	2- : NSN	SM1:	dDw
5 sPlcmb	4471	- hh40SS	- h1N2Sh	41Sh0S4	4SS0: - N	2M41	dDw
5 spenC	1271	442604N	4: 00: 10	462S1N1	4: 414N2	2M24	dDw
5 spenC	1272	: : 04N	: 40S2	: 44N:	: 4h0N	1M2-	dDw
5 GPmpcCr	- : 71	2- : 110N6	201- 6606	2h222161	2662- : 41	1SMM:	dDw
5 GPmpcCr	- : 72	22- h0h	22NN46	2- 6: - -	22h0N6	2M0:	dDw
5 Gpmb cmb	: 272	2: 6N6	261S1	2: 22h	2: 602	1M0S	dDw
5 nesPT	: h72	- NSh1	- N241	- 04h-	- 0h42	1MS4	dDw
5 nDDr p	6- 72	64h- :	6- N1-	64SN4	64200	SM11	dDw
&EwDpnwcmb	1: 671	- N16- -	- N1h41	- NhS- S	- N42S1	1MSh	dDw
&EwDpnwcmb	1: 672	1: h- 1N	1: h6- 6	1: h6N1	1: h: 4:	SM12	dDw
Fpecmb	16471	- 1S- 6N	- 221: 2	- 22421	- 1N- 14	2M16	dDw
Fpecmb	16472	126hS2	1264hh	126N2:	126042	SM10	dDw
HsonPCcmb	16S71	- 2: 666	- 2- S- 1	- 24: 2:	- 244S0	SM41	dDw
HsonPCcmb	16S72	1: - N61	1: 4hh:	1: 1: S6	1: - 4: 4	1M16	dDw
y nPb cmb	16: 71	h6661Sh	hh4- hS1	1SS40: 62	hNN: N: 0	2MSS	dDw
y nPb cmb	16: 72	4- N166h	4- 2: 4h0	42S6: - h	4- S4: 6N	2MSN	dDw
tCocmb	11: 71	6hNN4SS	012: 6h-	0- N200h	016: 624	2M0h	dDw
tCocmb	11: 72	hN: : S2	hN2N- :	hN44: 6	hN426:	SM14	dDw
tpnC	: 472	421hh6S	42NS: N1	4- 266hh	420: 040	1M2:	dDw
tpnC	: 672	00: 660N:	0N1: SSh6	00- 0N1: 0	006hN- 46	SM12	dDw
tpnC	: 072	2S26: 6:	2S22: hh	2S14011	2S212h2	SMS	dDw
KpEDTnC	N- 71	602	6: 2	014	6NS	4M0S	dDw
Lr so	2S671	4- 01N-	4: - N- h	44- : S-	444N42	1MMh	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1N	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	- 62S- N	- 6: 0S6	- 6: - 24	- 64- : 6	SM:	dDw
Lr so	2SN71	104- h- h	1004104	10062N6	1064NSS	1N8-	dDw
LdTGmb	671	2: S: 002	26S- : 0:	2: 442SN	2: : 11N:	1M1-	dDw
9 sgOr wcmb	2472	66h11N	66: 002	66- Nh-	666261	SM4S	dDw
9 sOgsOr wr	: : 72	2N1- 04-	2N62: - S	2N41N- -	2N- h- 6h	SMN6	dDw
9 nPEeor Omb	h471	10h16	1- 46:	144N-	1: 2NN	1: N2:	dDw
9 nPEeor Omb	h: 71	hN62	hN62	1S212	hh0h	2N8-	dDw
9 nPEeor Omb	h671	116- N	12Sh0	12240	11hh4	2N04	dDw
9 nPEeor Omb	h071	6- 20	616S	: h6N	61: 2	2M12	dDw
9 nPEeor Omb	hN71	1: hS1	1: 4h2	1: h6N	1: 0N0	1N0-	dDw
u r noEb cmb	1: S71	601006	6Nh- 0h	6N2: : :	6N12- 0	1MS	dDw
u r noEb cmb	1: S72	2SNhSh	2S: N22	2S6h- 2	2S0221	SM0:	dDw
u cdkr P	6S72	10h6N	1NS11	10NSN	10h2h	SM0S	dDw
8 GhwDGhpmw	- 172	- 2N4	2N42	- 1h2	- 1S6	0M1	dDw
8 nTswwcmb	- h72	6h: 01-	6h1h- S	6h21h0	6h- 2NS	SMS	dDw
. Ghocmb	1S- 71	6NN46S1	021: - h0	024hS6-	0116- : -	2NN-	dDw
. Ghocmb	1S- 72	- - - 11: 1	- - 1h260	- 21N4- -	- 2Nh610	1NN	dDw
I dsCocmb	4: 71	40SN044	4661h1S	4002- 6-	4014- - h	1M1N	dDw
I dsCocmb	4: 72	1: 242S	1: 11NS	1: 1440	1: 16N2	SM4-	dDw
I r P Comb	N271	444	: 62	- h0	46N	1NM1h	dDw
I r P Comb	0072	6NS	6: S	60-	66N	2M6	dDw
I r P Comb	0N72	4: 1	406	461	46-	2N02	dDw
I dPdnC	2N71	164- 1hS:	1601hSS2	16N: h- 1:	1660SS04	1M1	dDw
I dPr p	1S071	2: : h	24: h	242:	24N1	2NNS	dDw
I dPr p	1Sh71	240:	2- 60	202:	2: 2-	0N2h	dDw
I nocmb	2- 72	6: S- 0	646S2	64216	6461N	SN04	dDw
I TpnCTcmb	N671	1N: - 06	1NN- 04	1N62- 1	1N666S	SMN-	dDw
I TpnCTcmb	NN71	10SSS60	16N- 2S2	1606- 04	16N6: 4N	SN02	dDw
I mPmp	- 471	20h012	2060: h	20- N- :	20606h	1N86	dDw
Ar pecmb	1: h71	1SS16S12	1SS: 4- hN	1S1- 4hh0	1SS6N46h	SM0S	dDw
Ar pecmb	1: h72	424162-	42- : S10	4101421	4216S2S	SM12	dDw
AGsPbmb	2S- 71	- 6: 1	- h: 1	- hh2	- N6:	4NN-	dDw
AGsPbmb	2S: 71	h1N0	NN0N	hSN0	hS: 1	1N04	dDw
AdC	11N71	2: : h1	24NhS	26- 6N	2: 616	2NNh	dDw
AdSCcmb	4071	: Sh420	: S- 01-	: S01NN	: S6006	SM10	dDw
RpsCcmb	2- N71	1S4h66	1S6: h:	1S: 62S	1S: 020	SN0N	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP u sb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	4N6: h	4h1: 4	406S2	4N402	1M04	dDw
YTTr pe omb	10271	h04h2	h6h40	h: 6: -	h66h0	SM1N	dDw
YTTr pe omb	10272	40: : N	402SS	464S4	40S: 4	1M26	dDw
YTTr pe omb	10671	62S22	61661	641hS	62624	2M1N	dDw
YTTr pe omb	10672	41: 16	- h: S4	41621	4SNNS	2M12	dDw
YTTpomb	Nh71	16h1S0: 6	10- NSh6S	10- 06- 22	1022260h	1M10	dDw
YTTpomb	Nh72	1N41hN2	1NSh264	10N4: NN	1N11h44	1M1h	dDw
ZdCd	6672	hNh- :	h61h4	hNS1h	h0016	1M4-	dDw
ZqpdnComb	hS71	21060	221N:	22N11	222: 4	2M16	dDw
ZqpdnComb	h171	4NSh	: S06	: S4-	4h06	2M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCmb	2072	661N6h	6 N10	6 - N44	6 0106	SM04	dDw
qCTb nCE	12171	- h26	- N h	- 610	- NS1	4M20	dDw
qpwr Ccl	0 72	hhh	hS2	h10	h- h	SMMN	dDw
Bspcmb	1- 71	126N	Sh4S1	112-	111S0	SM12	dDw
Bspcmb	1- 071	NN 020	hS1NSN	Nhh42S	Nh 6 2	SM10	dDw
Br pEPmb	h71	20h0	20S	26 6	202S	2M04	dDw
Bcwb mTG	2Sh71	6h2h006	0104NS0	0Sh- 6h0	0S66Sh-	1M00	dDw
Bcwb mTG	2Sh72	- 2 1hN	- 262040	- 2SN24	- 24Shh2	SMMh	dDw
Bpmb oCr	N171	02N	0 6h	00- 6	0 - S	- MS2	dDw
5 sob cmb	1SN71	20	20h	201	20	1M1	dDw
5 sob cmb	1S671	4626	4242	42 1	4- 0-	MS1	dDw
5 sob cmb	11171	- 162	- 112	- - N2	- 21h	4M	dDw
5 sPlcmb	4- 71	40N26h	4N1 64	4N- 14S	4NShh1	SM12	dDw
5 sPlcmb	4471	NShS04S	NShShh-	N104422	N11N01N	SMh	dDw
5 spenC	1271	422 - N	011- 0S	N2hN0S	6 4 h-	- M01	dDw
5 spenC	1272	6h 1	6h- 64	6hS2h	6h- S-	SM16	dDw
5 GPmpcOr	- 71	2- 4hN- 1N	201h0h11	2h2 h20S	266 1N- -	1SM1	dDw
5 GPmpcOr	- 72	22 N41	220S60	2- 1h0N	22N2h	1M12	dDw
5 Gpmb cmb	272	4S6 N	- Nh0-	- h0N	- hNS	2M12	dDw
5 nesPT	h72	61010	61- 1	6SS0S	61S- 4	1M41	dDw
5 nDDr p	6- 72	2Sh- 12	21Sh 1	2S66h1	2SNhN	1MS-	dDw
&EwDpnwcmb	1 671	6h0 S	011hN	01S4N	0S66	1M1-	dDw
&EwDpnwcmb	1 672	2N4 S	2h- 22	2h2hh	2hS24	1M01	dDw
Fpecmb	16471	h 2	NNhN	hh 2	h4 N	SMMh	dDw
Fpecmb	16472	2- hN	2- h-	241N2	24S- 4	SM4	dDw
HsonPCcmb	16S71	6- hNN	64S1-	6444N	641 S	SM4S	dDw
HsonPCcmb	16S72	2h S6	2h Sh	- S012	2hhSh	2M12	dDw
y nPb cmb	16 71	1S1S4- h	1SS1hN 2	1SS- 0N0	1SS - - 44	SM4	dDw
y nPb cmb	16 72	41N 1N6	414- 62	41- NN2-	41 N0N	SM01	dDw
tCocmb	11 71	0 S2N 2	0- hS h6	0- 21h2-	04S 124	1M4-	dDw
tCocmb	11 72	h N240	h- NNhS	h - 4h0	h S211	1MS6	dDw
tpnC	472	- hN110	- N44 66	- N0- 2hh	- Nhh6NS	1MM	dDw
tpnC	672	01 S N	011N 01	6h- 0N01	0S6N- S 0	1M04	dDw
tpnC	072	1N40421	1N- 14- 4	1N1h0-	1N- 2N6-	SM06	dDw
KpEDTnC	N- 71	- 20	- -	- - 4	- - 2	1M21	dDw
Lr so	2S671	4- 4 -	66	N0- S	2 N-	1M46	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S071	462SSh	460h6	46- 441	464402	SM60	dDw
Lr so	2SN71	216S216	21h0NS0	21N- 6 -	21NS h	SMM0	dDw
LdTGmb	671	2 Nh6hN	262146N	264h004	262S- 1-	1M1	dDw
9 sgOr wmb	2472	16 S6NN	1626 20	164N6S-	1641h- h	SMM2	dDw
9 sOgsOr wr	72	122h22S	11hNS16	12S24hN	12Shh11	1M1h	dDw
9 nPEeor Omb	h471	10144	106S-	10N0S	10 - h	2M8h	dDw
9 nPEeor Omb	h 71	1ShS	1S001	1S0NS	1SN1N	SM0h	dDw
9 nPEeor Omb	h671	126N1	1- 61	1- 6S0	1- - S1	4M84	dDw
9 nPEeor Omb	h071	601N	6N-	60 2	606N	SMMh	dDw
9 nPEeor Omb	hN71	104h	1020N	16N6h	10214	1MM	dDw
u r noEb omb	1 S71	111- h1	11 62N	112hh0	11- - - h	1MMh	dDw
u r noEb omb	1 S72	- 42 S	- - - N	- 4N12	- 414S	2M1	dDw
u dkr P	6S72	- - h 4	- 41- 4	- - h44	- 4S11	SM1	dDw
8 GhwDGhpmw	- 172	0h20	0 S2	NS00	0N- 6	- MM1	dDw
8 nTswwmb	- h72	N2N0S	0 0N6	h1S- 1	N- 22h	1M1	dDw
. Ghomb	1S- 71	020 Sh6	02106S4	01016N-	0221461	SM02	dDw
. Ghomb	1S- 72	- 16N S	- 1hh21	- 1NN01-	- 1N 4h-	SM4h	dDw
I dsComb	4 71	4N016 h	46N212S	4N1N- N-	40hS02S	2M84	dDw
I dsComb	4 72	14 N0h	14 2- 6	14 SS-	14 - 0-	SM1	dDw
I r PCmb	N271	226	24S	2- h	2-	- M24	dDw
I r PCmb	0072	10S	140	12-	140	1 M1	dDw
I r PCmb	0N72	1S6	12-	116	11	0M4-	dDw
I dPdnC	2N71	140NN- N0	14h10- 66	1 S- 02Sh	14h14- 21	SMM-	dDw
I dPr p	1S071	4- N4	4 06	444-	4460	2M2S	dDw
I dPr p	1Sh71	41- 4	44N4	4- - 4	4- 10	4M80	dDw
I nomb	2- 72	6h010	602h0	66S60	606h4	2M04	dDw
I TpmCTmb	N671	2h1641	2Nh061	2h4S2N	2h1N1S	SM0-	dDw
I TpmCTmb	NN71	2600NS-	261- 1N2	266h4- N	26 - 404	1M2	dDw
I mPmp	- 471	- 1S4 1	- 102- 4	- 1- S0-	- 1- N6	1M8h	dDw
Ar pemb	1 h71	1S64- hS-	1S1 0N44	1S- 40S 6	1S- N2h- 4	2M6	dDw
Ar pemb	1 h72	4SN S- 2	4S - - -	4Sh14	4S0661-	SMS	dDw
AGsPmb	2S- 71	- S42	- S S	- S h	- S S	SM20	dDw
AGsPmb	2S 71	661S	0044	6hN	011-	NM2	dDw
AdC	11N71	h14	h4 4	h20N	h2h2	1M60	dDw
AdSomb	4071	h 1 0	h4646	h46 -	h4N1h	SM1	dDw
RpsComb	2- N71	61SN1	6- - S1	610N	62S 6	1MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:u sb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	172	NSN2-	NS4SN	NSS06	NS4- 6	SM40	dDw
YTTr pe omb	10271	1N6- S	1N664	1N0S	1N666	SM2S	dDw
YTTr pe omb	10272	h2 h	NhhN	h2S-	h1 -	1MS	dDw
YTTr pe omb	10671	1- - 04	1- 666	1- 1- 2	1- - hS	2M8S	dDw
YTTr pe omb	10672	166- N	16N60	16hh	16N- -	1M80	dDw
YTTpomb	Nh71	14- h41- 2	1- N112N-	14Sh2h21	14Shh446	2M80	dDw
YTTpomb	Nh72	14- hS N	14S2S6	142- SN	1421 44	1M1	dDw
ZdCd	6672	hh62N	hN N0	hh110	hh111	SM2	dDw
ZqpdnComb	hS71	- S406	2h04h	- S442	- S222	1M6	dDw
ZqpdnComb	h171	64h-	6- 6N	6N00	6 NS	4M8-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J. aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	2072	4a00- 0	: S: - u-	: SS2: 6	: S112:	SR0u	Ol l
d. iqe C. E	12171	- 606	- u- 4	- 6- 4	- 01:	2Ru4	Ol l
dll p. qO	0: 72	6014	66a6	60a4	60- :	SR00	Ol l
Bwldpe	1- : 71	- : S426	- : 21a:	- 4: : 46	- 4a- ua	SRaa	Ol l
Bwldpe	1- 071	620a: :	61: 266	61: 6Su	61a61S	1R10	Ol l
BplE&pe	a71	2- 4:	2- 64	220:	2- 2u	2RS1	Ol l
Bdqe biG	2Sa71	66Saa6u	6a: Su4:	6ua: - 0u	6u1u0- S	2R6u	Ol l
Bdqe biG	2Sa72	- 201u- 4	- 2S1uau	- - 2211u	- 26: 2u-	1Ru:	Ol l
BlOe q p	u171	611u	66- :	616u	6- S0	4R.2	Ol l
9 wne dpe	1Su71	160	22:	260	21a	22Rua	Ol l
9 wne dpe	1S671	41u4	446u	4- u4	4- 4:	- R :	Ol l
9 wne dpe	11171	2: au	2u2-	26aS	20S-	4Rla	Ol l
9 w&Odpe	4- 71	: - u1: u	: 4Su0u	: - 26- :	: - 0224	SR0u	Ol l
9 w&Odpe	4471	aS2016S	a- S1661	ua2- 120	aSu- au-	2R1:	Ol l
9 wlr C.	1271	- 2aaaS6	- 41- 241	- - 2S- 1:	- - 444u0	1Ru1	Ol l
9 wlr C.	1272	4S- 64	4SS14	4S4ua	4S2ua	SR61	Ol l
9 G&Clq p	- : 71	226u: uu4	26a402Su	2u060- 2a	261- - 404	11Ra4	Ol l
9 G&Clq p	- : 72	210- 0-	22- S- 1	22: 2ua	221uau	1Ru4	Ol l
9 GlOe dpe	: 272	- 216-	- 10S:	- 2Saa	- 1aua	SR0u	Ol l
9 Or w&	: a72	020- 1	02S6u	012- 0	02S12	1RS4	Ol l
9 Ot t pl	6- 72	1auu: 0	1a: 024	1a6u01	1a01: 1	SRuS	Ol l
TEl t lOl dpe	1: 671	60022	0S- 1S	660a-	6u20:	2R60	Ol l
TEl t lOl dpe	1: 672	2u166	20006	2u21S	2uS: 1	SRu:	Ol l
Ulr dpe	16471	: 0ua4	: 02- 2	: a: a2	: u2- a	2RSa	Ol l
Ulr dpe	16472	2- u0:	2- a02	2- 6: 4	2- u- 4	SR6u	Ol l
HwnO&q dpe	16S71	61u2u	: au26	61- : S	61SS1	1R01	Ol l
HwnO&q dpe	16S72	2aS4:	2a: 4-	2a12:	2a2- u	SRa1	Ol l
h O&e dpe	16: 71	a2: S: : a	a02a6u0	aaS4uu6	a62u- 00	- R.2	Ol l
h O&e dpe	16: 72	41414u2	41606a4	4- 1uS01	42SaSu2	2R26	Ol l
& ndpe	11: 71	60: 004u	6a6: - 6a	01210: 6	6a4u2a1	2R6-	Ol l
& ndpe	11: 72	a: 2: - 6	a: 466:	a6- u22	a: 0SSu	SR6-	Ol l
&C.	: 472	- aa1aSS	- u- : 1S:	- u: 6- 40	- ua44: 1	2R1u	Ol l
&C.	: 672	0S01- 1: 0	6a2uSS00	0SS- u: 1:	0SS1S: u-	1RS2	Ol l
&C.	: 072	1u62a00	1006402	1uS6u2a	1u1: 426	2R42	Ol l
KlEt iC.	u- 71	- 66	- - 0	- 10	- 4S	0R2S	Ol l
Lpwn	2S671	: 1uS- u	: 1au2u	: 10- 1u	: 1u- a:	SR2:	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	42- 226	42a: u4	42a1a4	420- - :	SRu-	Ol l
Lpwn	2Su71	2S110Su	2S- 6122	2S2u10:	2S2: - - :	SR61	Ol l
LqiGdpe	671	2401104	2: 6S: aa	2: uS11S	2: - 02a4	2R2a	Ol l
y wg. pl dpe	2472	1216- 4:	12- 2110	12261Sa	1224u: 0	SR6:	Ol l
y w. gw. pl p	: : 72	16aSS6:	166a04u	160u66S	160a4a1	SR61	Ol l
y O&Er np. be	a471	2SS1:	2S016	2S: 04	2S4- :	1Ru1	Ol l
y O&Er np. be	a: 71	14u2:	1: 1Sa	140: u	14ua0	1R2:	Ol l
y O&Er np. be	a671	1uu1-	1u2: 4	1u66-	1u: 00	1R 6	Ol l
y O&Er np. be	a071	a- 2S	a: 0S	a62a	a: S6	1R02	Ol l
y O&Er np. be	au71	240- a	24614	242uS	24: 44	SRa0	Ol l
mpOnEe dpe	1: S71	11S40u	11Su6u	1S0: 2u	1Sa624	1R60	Ol l
mpOnEe dpe	1: S72	- - 4S:	- - : 0:	- 2040	- - 242	1R 2	Ol l
mqOkp8	6S72	- au1a	4S1u0	4S11-	4SS4S	SR4a	Ol l
NGOl t GOlbl	- 172	: 206	: : Sa	: 1: a	: - 1:	- R :	Ol l
NOiwl l dpe	- a72	- - 4- 12	- 216a1	- - SSau	- 2u0SS	1Ra:	Ol l
F GOndpe	1S- 71	64u0: : S	0S1S2- S	0S1: u0a	6u- 0uu6	4R44	Ol l
F GOndpe	1S- 72	- 21- 0S0	- 2S: 6S4	- 2- 210-	- 210161	SR42	Ol l
DOw. ndpe	4: 71	4- 4a6uS	46a: u- 2	4: 460: :	4: - S0: 6	- Ru-	Ol l
DOw. ndpe	4: 72	146: - :	14a- 0u	140- 0u	140064	SRaa	Ol l
Dp&p. dpe	u271	2: 6	214	2: 0	242	1SR20	Ol l
Dp&p. dpe	0072	12-	14S	1: 0	14S	11RaS	Ol l
Dp&p. dpe	0u72	1S1	111	1S-	1S:	: RS4	Ol l
Dqp&OC.	2u71	1Sa01616	11- : 14a-	1Sau0Su4	111S- - au	1Ra4	Ol l
Dqp&vpl	1S071	: 126	40u4	: S- 4	4au2	- R :	Ol l
Dqp&vpl	1Sa71	4uS1	4a06	4a: a	4a12	1Ra0	Ol l
DOndpe	2- 72	06a4:	0u062	0u126	00a44	1R1u	Ol l
DilC. idpe	u671	20S214	26u4u:	26a- : 2	26a- : S	SR 2	Ol l
DilC. idpe	uu71	24: 2: 1:	24u2: : u	2460- - a	2460401	SR61	Ol l
Db&bl	- 471	: 60: 00	: 0u0: 2	: 0- aaS	: 0- 4- a	SRau	Ol l
cplr dpe	1: a71	a6- 0: : 1	1SSa1Saa	1SS646S0	aa- 1Su6	2R 6	Ol l
cplr dpe	1: a72	- a66416	4S1SS12	4S0u0SS	4S1u- 06	1R41	Ol l
cGw&&pe	2S- 71	2460	20: S	26: S	262-	: R4u	Ol l
cGw&&pe	2S: 71	6220	61a-	: u00	6Saa	- R10	Ol l
cq	11u71	a012	au- 0	a2a:	a61:	2Ra:	Ol l
cqiw. dpe	4071	04400	02a1a	0- 0aa	0- 0- 2	1RS6	Ol l
5 lw. dpe	2- u71	6a6- -	6u0a:	666u4	6u- 01	2R22	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndqe	: 172	01a00	02141	012u0	01uS1	SR6-	Qtl
Yiiplr dqe	10271	1u4: :	1a24u	1a114	1ua- a	2R24	Qtl
Yiiplr dqe	10272	a- : a	ua2:	uuSa	aS- 1	- R21	Qtl
Yiiplr dqe	10671	1- 26:	1- 616	1- 1: 0	1- - 46	1RuS	Qtl
Yiiplr dqe	10672	166ua	16u- -	16a: 6	16u26	SR0a	Qtl
Yiildqe	ua71	1- S2: SS1	1- : u41aa	1- 0a: 264	1- 46u1: 4	2Ra6	Qtl
Yiildqe	ua72	14121: S	14- 4200	141u: 4u	14216: u	SRuS	Qtl
Zq O	6672	u1660	u1600	u1- 2:	u1: : 6	SR2:	Qtl
Zd OC. dqe	aS71	- 21S:	- 2: uS	- 2112	- 2266	SRu4	Qtl
Zd OC. dqe	a171	02- :	026S	6a00	01: u	2R1a	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	41y41S	4106S4	4141J0	410S60	SU64	ql w
cn&Amonh	12171	- 410	- E60	- 0Ey	- EJ1	4U0J	ql w
crwenAq	0E72	2- S6	22J0	22J6	22y-	SU4y	ql w
BsrAm	1- E71	- E6J0E	- EE- SS	- 406y4	- E- 2Jy	1UJy	ql w
BsrAm	1- 071	6- ES1-	6- - 20y	61y- 21	62y2SE	1UJ0	ql w
BerhRAm	y71	- JEJ	- y- y	- 00-	- JE6	2U16	ql w
BAmu&G	2Sy71	6J661- y	6JJ- S6E	6y61ySJ	6yS- 0S4	SU04	ql w
BAmu&G	2Sy72	- 1J02E2	- 2S44S1	- 2- 1S12	- 2S0EEE	SU6y	ql w
BromAne	J171	EyS1	EyS1	E0- E	EJ46	1U6E	ql w
RsOmAm	1SJ71	- E4	- ES	2J-	- 2y	12USJ	ql w
RsOmAm	1S671	441J	46Sy	4JS1	46Sy	4U16	ql w
RsOmAm	11171	2- - 6	220S	22- 2	220y	2UJS	ql w
RsRqAm	4- 71	4SE2- 0	4Sy464	4S- E02	4S6Sy1	SU0E	ql w
RsRqAm	4471	6JEE46-	01- J1EJ	604SE02	6y11- yJ	2Uy6	ql w
Rsrbon	1271	- JJJEy2	4112E- 0	41442S-	4S4J444	- U44	ql w
Rsrbon	1272	4y10E	4yy6S	4061y	4Jy1J	2U44	ql w
RGRorAne	- E71	2- S46- JE	20S- 16- 6	2yS2S- J1	26- 661- 4	11UE4	ql w
RGRorAne	- E72	21JJ46	22161S	222262	22SyS6	SUJ2	ql w
RGromAm	E272	22yy2	22011	22y4E	22JJ-	SU66	ql w
RobsR&	Ey72	2Jy2y	2JJSy	2J2- J	2J6Ey	1U2y	ql w
RoI I er	6- 72	6- 4y1	6- 1J0	62JS2	6- 16S	SUEE	ql w
t hwI rowAm	1E671	J016J	J6J66	J46E1	J622J	1UEy	ql w
t hwI rowAm	1E672	- 6SEE	- 41y4	- E2ES	- E166	2U6E	ql w
. rbAm	16471	6- EJ6	62121	61J00	62E2J	1U4J	ql w
. rbAm	16472	2EESE	24EJ6	2ES64	2ESE2	1UJ-	ql w
HsOoRAm	16S71	0EJ- 2	0- 046	02041	041S6	2U1-	ql w
HsOoRAm	16S72	- 4y22	- 42S4	- E4J0	- 4J01	1UJ4	ql w
9 oRmAm	16E71	y066- 6y	y06S21y	y0EySJS	y061JyS	SUS4	ql w
9 oRmAm	16E72	4114JSy	4160y- 4	4SJJS26	412- EyS	SUyy	ql w
DnOAm	11E71	0SSJ066	01S4EJE	01- E0E6	0SJ- S- 6	SUy-	ql w
DnOAm	11E72	y- 4- 42	yES2E1	y4SSJJ	y41E6S	SUJ6	ql w
Don	E472	1J2S146	1JES441	1J46202	1J- JyE-	SUJy	ql w
Don	E672	- - 44S- Sy	- - - 2Syy4	- 211J6yS	- 2yEyyy0	2U22	ql w
Don	E072	0y41Ey	0y- 21E	00y2Ey	0JJJ00	1US6	ql w
KrhI &on	J- 71	- E4	- SE	- 2E	- 2J	0U40	ql w
LesO	2S671	E- 14E6	E2224y	E1JS06	E2- y20	1UJ1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	442J6J	441J61	4- S4- S	4- J- J6	1UEJ	ql w
LesO	2SJ71	2S60SSS	2S660y4	2S4S- 2E	2SEJS4S	SU0E	ql w
LA&GAum	671	2E0y22-	2E40J- y	2EJ414J	2E0S4S-	SU00	ql w
5 sgnewAum	2472	04E12S	0E4ES1	0662J2	0EE- S1	1U4S	ql w
5 sngsnewe	EE72	4- E2yy	4- 0y- y	4- - 2y2	4- EE1S	SUE4	ql w
5 oPbOenum	y471	E1y0-	E- SS2	E12S-	E2SEy	1U0-	ql w
5 oPbOenum	yE71	4410	4J26	4E26	4EyS	4U61	ql w
5 oPbOenum	y671	12014	1- 22-	1- 4E0	1- 1- 2	2UJy	ql w
5 oPbOenum	y071	2- 42	2J60	2y10	20Sy	11U06	ql w
5 oPbOenum	yJ71	0Ey4	6yS2	02y4	026-	4U0J	ql w
NeoOhmAum	1ES71	1E4yJJ	1EE11-	1EEJ1E	1EE- SE	SU2y	ql w
NeoOhmAum	1ES72	4E1yy	4E126	44661	44yyE	SU6E	ql w
NAqkeP	6S72	14y- E	1E1JE	1E2- 2	1E110	1US6	ql w
8 GowI Goruw	- 172	ES1J	E2Ey	E24-	E10-	2U61	ql w
8 o&swwAum	- y72	41210y	4SySJ4	4S1- y4	4S0EE-	1U-6	ql w
CGoOAum	1S- 71	01- 0126	01SySE0	0S- SJ02	0Sy2- E2	SU0J	ql w
CGoOAum	1S- 72	- 141JS6	- 2216- 6	- 1ES060	- 1014S-	1U-J	ql w
pqsnOAum	4E71	46- 4- 46	400J202	46- 6S44	46J2JJ0	1U06	ql w
pqsnOAum	4E72	14E- Ey	14E2y-	141yS6	1441J6	1U-0	ql w
pe&enAum	J271	1- 0	1yy	162	166	1JUE2	ql w
pe&enAum	0072	1E0	1- -	10-	1E4	1- US1	ql w
pe&enAum	0J72	12S	11S	1SE	112	6UJ4	ql w
pAqon	2J71	1- SJS261	1- Sy606J	12y- 0- 01	1- S- J1- -	SU60	ql w
pAer	1S071	- yE1	- y60	- J26	- y1E	1UyJ	ql w
pAer	1Sy71	42Sy	- y42	- 060	- y0-	EU6S	ql w
poOAum	2- 72	E262y	E1y6S	E2411	E2- - -	SU6E	ql w
p&on&Aum	J671	1yJEyJ	1yy200	1y406y	1y0E4J	1U2-	ql w
p&on&Aum	JJ71	1J142SS	10J44E6	1JS1- 06	1JSSS11	SUJ-	ql w
pu&ur	- 471	2y62Ey	- SS4EJ	- S142S	2yy- 0y	SUy2	ql w
i erbAum	1Ey71	yy1- 06-	yJ4E406	y02yJ64	yJ2y0S1	SUyE	ql w
i erbAum	1Ey72	4S66E46	- yy2y- 2	4SSJJ26	4S2206J	SUy6	ql w
i GsPAum	2S- 71	1ESJ	10y2	14EJ	1EJ6	11U--	ql w
i GsPAum	2SE71	- E06	- Jy2	- 4E1	- 6- y	6U26	ql w
i A	11J71	1EJE1	16100	16600	162- E	2UE6	ql w
i A&snAum	4071	1- 0S10	1- yESJ	1- 04SE	1- 0y00	SUy0	ql w
MrsnAum	2- J71	6E126	66224	6- 22E	64JEJ	2U-4	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF2-	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	E172	442yE	4- Jy0	4420J	441E0	SUE1	ql w
Y&erbAum	10271	16y0S	10E62	10S2J	101J0	1UyS	ql w
Y&erbAum	10272	J440	J614	J2J6	J44y	1Uy4	ql w
Y&erbAum	10671	12214	1- J- -	12J4J	12y6E	6U2y	ql w
Y&erbAum	10672	166ES	162EE	16- - -	16412	1U20	ql w
Y&&Aum	Jy71	1- E1- - 0J	1- y42- 16	1- 0yE1- 2	1- 0ES20E	1UEy	ql w
Y&&Aum	Jy72	1- 2yJEJ	141- ESS	142- E2J	1- JJy62	- U0S	ql w
ZAnq	6672	622J-	62E6J	6140-	621SJ	SUy1	ql w
ZAqonAum	yS71	1- 210-	1- 2- 41	1- S4EJ	1- 16E0	SU0y	ql w
ZAqonAum	y171	2y- - 2	2yJ- -	2J6JS	2y2J1	1Uy0	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tuwb r :J	N
5 8r CTl wb D8 :t&:J	9 y SU2- &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :uwb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2072	41 41h	41ah1-	41 462	410ah	SMa	dDl
qCTb nCE	12171	- 4ah	- 6h2	- 6 4	- 612	- M0	dDl
qpl r Ccl	0a72	2- - S	2- S1	2201	2- S1	1M2	dDl
Bwpcmb	1- a71	- a- 1h-	- 614h6	- a6- 41	- a0S1S	1M10	dDl
Bwpcmb	1- 071	62200S	64- S- a	6- - - 00	6- - S61	1M8S	dDl
Br pE8mb	h71	- 02a	- 04a	- 0 1	- 0aS	SM06	dDl
Bdl b mTG	2Sh71	6 aSa62	02a	6h 21ha	0S- Sa4	2M16	dDl
Bdl b mTG	2Sh72	- 2h- a06	- 22S S1	- 2- 0a06	- 2aS6a1	1M10	dDl
Bpmb cCr	171	a - a	6- S2	61a2	6Sh6	- M11	dDl
5 wob cmb	1S 71	- 10	2	- S	- S4	4M14	dDl
5 wob cmb	1S671	4a06	4a26	42Sh	44- 0	4M4	dDl
5 wob cmb	11171	2411	2- 00	22h0	2- 62	2M4	dDl
5 w8lcmb	4- 71	4S2S 1	4S6S -	4S4110	4S4Sh4	SMaS	dDl
5 w8lcmb	4471	600S1- S	6h4- a- 2	602ahS6	6 1- 1 h	1M8h	dDl
5 wpenC	1271	- 0h 6a1	- hh2h0h	4SS2440	- h- 1- ah	2M1-	dDl
5 wpenC	1272	400 0	4h66S	4 - - S	4 ah2	1M1	dDl
5 G8hpCr	- a71	2- S 1a0S	26h- 4h02	2 04216-	262a2hS2	11M81	dDl
5 G8hpCr	- a72	216h- 2	222a0-	224h6	2214h1	1M6	dDl
5 Gpmb cmb	a272	22ha	22 42	22a4a	220 2	SM14	dDl
5 new8T	ah72	2ha- 1	2 a42	2h0aa	2h206	2M2S	dDl
5 nDDr p	6- 72	640S-	64 01	641a0	64a00	SMa	dDl
&El Dpnl cmb	1a671	4- 0a	Sh	aa- -	6SS2	2M22	dDl
&El Dpnl cmb	1a672	- 466	- 42h1	- 6S a	- aS1a	2M0S	dDl
Fpecmb	16471	6444h	661S0	64a41	6aS- -	1M4-	dDl
Fpecmb	16472	2aS- 4	2aS04	2aa2a	2a211	1M8	dDl
Hwon8Ccmb	16S71	02440	0a hS	06220	04 aa	2M0h	dDl
Hwon8Ccmb	16S72	- 4421	- 404a	- 464	- 46Sa	SM4	dDl
y n8b cmb	16a71	h 6001a	1SaS160a	1SSSS226	1S12- 2S6	- MS	dDl
y n8b cmb	16a72	422SaS4	422- 2-	4220Sh	422- 61-	SM8	dDl
tCocmb	11a71	0S0621-	0a00h0S	0- 616aS	0- - 611	- M4-	dDl
tCocmb	11a72	h64a 2	ha01-	ha44a6	ha 026	SMa	dDl
tpnC	a472	1 01h 6	1h102 6	1 4Sh22	1 060- 1	2M8a	dDl
tpnC	a672	- - 6h446	- - 000406	- - 4a0h2	- - 002a0h	SM22	dDl
tpnC	a072	0h60h2	S- 660	0h61a2	0h 01	SMa2	dDl
KpEDTnC	- 71	- - a	- - S	2h4	- 2S	0M84	dDl
Lr wo	2S671	a2a21a	a- 16aa	a2h4- S	a2 060	SM02	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4407S	tCl Tpmb Cr T.uwb r :J	N
5 8r CTl wb D8 :t&:.J	9 y SU2- &	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :uwb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S071	420- 44	44- aa	442- S	4- 00- 0	2M86	dDl
Lr wo	2S 71	2S- Shh0	2S 4- S0	2Sah01	2Sa - 41	1MS	dDl
LdTGmb	671	2a- 4224	26h0 -	262 12a	262SS00	- M-	dDl
9 wgCr l mb	2472	0aa0	0a40	04- 0-	0a14 -	SM	dDl
9 wCgwCr l r	aa72	446642	441144	442200	44- - a4	SM8a	dDl
9 n8Eeor Cmb	h471	aS 1h	a1 - h	a- 6S4	a2S 0	2M01	dDl
9 n8Eeor Cmb	ha71	4aSh	40h-	4a6	462-	- M24	dDl
9 n8Eeor Cmb	h671	1- ShS	1- 2hS	141hh	1- a26	4M0	dDl
9 n8Eeor Cmb	h071	- 1 4	2h- 4	2h- 4	- S10	4M0h	dDl
9 n8Eeor Cmb	h 71	0661	0hS2	02S2	0a	4M8h	dDl
u r noEb cmb	1aS71	1aSah0	1a0Sa6	1a- a4	1a- - a	2M1S	dDl
u r noEb cmb	1aS72	4a4 0	4a	4400a	4a- -	1M24	dDl
u cdkr 8	6S72	1a422	1a111	1a16a	1a2- -	1M8h	dDl
NGhl DGhpml	- 172	a106	a- 4-	a2- 4	a2a1	1M61	dDl
NnTwl l cmb	- h72	41- 1hh	4S- 4aS	411 4-	4Sh4h0	1M2h	dDl
. Ghocmb	1S- 71	0S64h- 2	04140ha	0Sa6- S6	010 60	2Ma	dDl
. Ghocmb	1S- 72	- 24001a	- 222 44	- 2Sh4a4	- 226601	SM8S	dDl
l dwCocmb	4a71	462a26a	4 141-	46S06 S	40S40 6	- M26	dDl
l dwCocmb	4a72	14a246	1460hh	1464a	14616	SM46	dDl
l r 8 Ccmb	271	1a1	121	211	161	2 M42	dDl
l r 8 Ccmb	0072	1- 0	1 0	1- -	1a2	1hM0-	dDl
l r 8 Ccmb	0 72	hS	1S	1S-	1SS	hM26	dDl
l 8dnC	2 71	120Sh6aS	12ha- 6a	1- 24SSS0	12h60002	2M8a	dDl
l 8vr p	1S071	- - 4	4Sa1	- h06	- ha-	2M0	dDl
l 8vr p	1Sh71	- 0Sh	- 10	41 4	- hS-	6M	dDl
l nocmb	2- 72	a44a-	a2 6-	a4- Sh	a- 0a	1M0-	dDl
l TpnCTcmb	671	1h- h00	1hh a	1h0a10	1h011	1M4S	dDl
l TpnCTcmb	71	104024h	1 - h- 62	1 - S1aS	1 Saa 0	2M1	dDl
l m8mp	- 471	2h a2h	- S2S 2	- S2662	- S1Sh1	SM04	dDl
Ar pecmb	1ah71	1SS266-	1S 42a62	1S2SS064	1S- a66aa	4M1a	dDl
Ar pecmb	1ah72	41SS40S	4S6- 6 1	4116- 40	4Sh- 4hh	SM06	dDl
AGw8mb	2S- 71	1a- -	1- a	16S	1aSS	M1a	dDl
AGw8mb	2Sa71	- 642	- a1	- 4	- 0h2	- M1a	dDl
AdC	11 71	16S a	16- 00	1a6- 4	16S- 2	2M-	dDl
AdTwCcmb	4071	1- 6- 12	1- 0a04	1- 4S4S	1- ah0a	1M12	dDl
RpwCcmb	2- 71	64S0S	6a444	6a4 6	6aSSS	1M24	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tu wb r :J	N
5 8r CTI wb D8 :t&:J	9 y SU2- &	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a172	4a2aa	4412	4- hh4	444ah	1M46	dDI
YTTr pecmb	10271	1024a	1 2h6	104ha	1060h	- M11	dDI
YTTr pecmb	10272	16h	2h2	014	- h2	- M41	dDI
YTTr pecmb	10671	12 2-	126S6	1- 416	12h4	- M4-	dDI
YTTr pecmb	10672	16hSS	16S01	1664h	16a4S	2M40	dDI
YTTpcmb	h71	1- 66 S1-	14046- 46	1- 1026	14Sh 6ha	4M8a	dDI
YTTpcmb	h72	14- - - 40	1- a4446	14Sa642	1- h0 12	2M6	dDI
ZdCd	6672	61 - 1	6- 424	61 h	62- 4	1M44	dDI
ZqpdnCcmb	hS71	1- 10h6	1- 64- 2	1- 44- S	1- 421h	1M0-	dDI
ZqpdnCcmb	h171	- 1S6S	- S2SS	2h44S	- S2- -	2M6	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264C3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430C3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHCF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2C2- 0C3012 16:CJ:2-	DstsFiRe Nsme :	C32AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23C2	36J49	3JC9C	3J139	333C6	C.96	cpw
Antimony	12101	6CJ	313	JCJ	311	14.CJ	cpw
Arwenic	37C2	43C	- 9-	422	42J	9.CJ	cpw
Bsrium	1- 701	64- 74	6- 727	661C7	64661	2.C4	cpw
Bsrium	1- 301	11C3JJ	116921	116217	114641	2.9-	cpw
BeryRium	901	632	311	679	6J1	4.CC	cpw
Biwmuth	2C901	631- 436	6646262	63CC244	66J6661	C.7-	cpw
Biwmuth	2C9C2	- 174JJ6	- 1- 3- J-	294616-	- C39433	- .36	cpw
Bromine	J101	4636	464-	4- 6J	4762	- .31	cpw
Csdmium	1CJ01	37	1CJ	37	J6	22.- 7	cpw
Csdmium	1C601	- J36	- 371	4C13	- JJ1	- .44	cpw
Csdmium	11101	39J	634	366	346	J.79	cpw
CsRium	4- 01	32C9-	3- JC9	3- 14C	3- C14	1.1J	cpw
CsRium	4401	124C3C1	12J1273	1234C99	1267- 72	1.31	cpw
Csrbon	1201	269C397	2693193	2373- 13	23171C-	1.- 7	cpw
Csrbon	12C2	- 1J6J	- 2J29	- - C46	- 27J1	1.92	cpw
ChRrine	- 701	1C- 93J27	1C431C9-	1C- J4C34	1C413664	C.47	cpw
ChRrine	- 7C2	6966J	69663	6J3C4	69- 46	C.JC	cpw
Chromium	72C2	71CJ	724J	7- 61	72- 9	2.42	cpw
CobsRR	79C2	7- 21	7- 91	71J1	729J	2.C2	cpw
Copper	6- C2	12- 32	12749	12676	12726	1.14	cpw
Dywprowium	1761	17136	17679	17- 13	17- J4	1.62	cpw
Dywprowium	1762	6J12	6- 77	63J7	6671	- .J6	cpw
Erbium	1641	114- C	11793	117JC	117- 6	C.JC	cpw
Erbium	1642	4331	4661	476J	4666	2.1J	cpw
GsdoRRium	16C01	1- 999	1- 6- 2	1- 316	1- 3J2	1.4C	cpw
GsdoRRium	16C02	647J	6632	6772	6761	1.6-	cpw
HoRRium	1671	9J74C41	979C33-	972J4C6	967334C	1.39	cpw
HoRRium	1672	41C29- 2	41JJC49	- J276- 3	4C- JJ3-	4.69	cpw
Indium	1171	6973164	3C77611	3CJ919-	3C- - 9J9	C.9J	cpw
Indium	1172	9- 1412	942971	JJ262-	91J997	- .4J	cpw
Iron	742	- 1319C	- 241- 1	- 226- 7	- 21- 19	1.14	cpw
Iron	762	61764J9	6267772	627- 192	6227C3J	C.96	cpw
Iron	732	1471JJ	14JJ42	143C96	143C42	1.24	cpw
Krypton	J- 01	2J3	- C4	233	29C	4.7J	cpw
Lesd	2C601	94417	96- - 4	936- 2	96123	1.6J	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	3J467	JO236	JOJ71	39J64	1.76	cpw
Lesd	2OJ01	- 3- - 96	- 37374	- J1444	- 36J67	1.1O	cpw
Lithium	601	2461J99	24- 6J4J	272- 24J	243- 99J	1.JO	cpw
Msgnewium	24O2	1- 3- O2	1- 673J	142227	1- J3O2	2.22	cpw
Msngsnewe	77O2	J1O67	J- 466	J294-	J2491	1.7-	cpw
MoRybdenum	9401	96J3	9- 2J	977-	972-	1.9O	cpw
MoRybdenum	9701	913	3J-	J92	J64	J.2O	cpw
MoRybdenum	9601	26O9	2279	27- 4	2463	3.43	cpw
MoRybdenum	9301	4OJ	763	77O	7OJ	13.12	cpw
MoRybdenum	9J01	1427	1437	12OJ	1- 3O	1O.- 7	cpw
Neodymium	17O01	26JO1	233- 6	23- O1	23239	1.32	cpw
Neodymium	17O02	J2O9	J43-	J4J9	J- 9O	1.J3	cpw
NickeP	6O02	2JO3	- O24	2314	2J4J	7.79	cpw
8 howphoruw	- 102	1O63	992	97O	1OO-	7.9O	cpw
8 otswwium	- 902	J- O9J	J- 291	J- 6O1	J- - - O	O.- O	cpw
Rhodium	1O- 01	69222- J	3O121J2	637174-	6J97- 21	1.92	cpw
Rhodium	1O- 02	- 146- 92	- 1471J4	297- - - 6	- OJ16- 3	- .61	cpw
Scsndium	4701	4463717	4716979	4434- 22	44J6267	O.6O	cpw
Scsndium	4702	142- - J	142J67	1- 4666	1- 9976	- .2J	cpw
SeRenium	J201	7	04-	017	01J	01- 6.2J	cpw
SeRenium	3302	4O	- 3	- 3	- J	7.O9	cpw
SeRenium	3JO2	23	- 4	44	- 7	24.41	cpw
SiRcon	2J01	24- 7413	24324O7	2747- 2-	24J4- J2	2.27	cpw
SiRver	1O301	J7J	J42	J27	J42	1.9J	cpw
SiRver	1O901	JJ-	JOJ	JOJ	J- -	7.2O	cpw
Sodium	2- 02	2772-	27- 9J	27- J9	274- 3	O.29	cpw
Strontium	J601	- 43O2	- 624J	- 6OO6	- 7672	2.- -	cpw
Strontium	JJ01	- OO- 33	- O919-	- O4JO6	- O4392	1.47	cpw
SuRur	- 401	26- 169	2792- O	2733JJ	26OO62	1.O3	cpw
Terbium	17901	9911714	93676- 9	9JJ66OO	9J747J7	O.39	cpw
Terbium	17902	4O46911	4O2- 626	- 341997	- 9- 3711	4.- 1	cpw
ThsRium	2O- 01	463	7J-	437	7OJ	12.JO	cpw
ThsRium	2O701	9J-	1O92	1OOJ	1O2J	7.72	cpw
Tin	11J01	- 3O9	- 6O9	41J4	- J- 4	J.O1	cpw
Titsnium	4301	241O4	24322	247- O	24472	1.29	cpw
Ursnium	2- J01	116O6	12O3-	1214J	11942	2.46	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	710 2	J- 6-	J- 9-	J- O6	J- 74	O.7-	cpw
Ytterbium	1320 1	- 413	- 213	- 271	- 297	- .27	cpw
Ytterbium	1320 2	1411	142J	1611	14J-	3.4J	cpw
Ytterbium	1360 1	- 179	- - 27	- 1J4	- 22-	2.39	cpw
Ytterbium	1360 2	11J76	12276	11- 23	11J1-	- .94	cpw
Yttrium	J90 1	12JJ3O79	12JJ329O	12336OO9	12J7O12O	O.7O	cpw
Yttrium	J90 2	127- 132	123974J	119412O	12422JO	- .72	cpw
Zinc	660 2	12OO7	113OJ	11J62	11J7J	1.27	cpw
Zirconium	9O0 1	24O6-	24131	2434J	24- 23	1.71	cpw
Zirconium	910 1	71O1	774-	766O	74- 7	7.42	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tu sb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:u sb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCcmb	2072	hS004N	hS6 2	hSS1hN	hS4 66	SMM-	dDw
qCTb nCE	12171	112461	111N4S	1S 0 S	111- 64	1M2h	dDw
qpwr Ccd	0h72	- 610	- 024	- N14	- 01N	2M0h	dDw
Bspcmb	1- h71	1SNh2	S02 2	Sh NN	SNS44	SM2N	dDw
Bspcmb	1- 071	1044622	16 h002	10S22Sh	10142SS	1MMh	dDw
Br pEPPmb	71	1 hN2	1 26N	1N0N-	1 211	2MS	dDw
Bcwb mTG	2S 71	6 2666	0124N01	0Sh6N- 6	0S- 612h	1M4-	dDw
Bcwb mTG	2S 72	- 26 h60	- 2- NS-	- 2- - - 0	- 240hN	SMM	dDw
Bpmb cCr	N171	614-	624-	6220	62S4	SMM6	dDw
5 sob cmb	1SN71	1- 2	1221	120	1206	4M2h	dDw
5 sob cmb	1S671	h- 4-	h66N	hN1N	h61S	4M-	dDw
5 sob cmb	11171	164- h	164 -	16- Sh	16411	SMM	dDw
5 sPdcmb	4- 71	4h4- 4h	4h02N6	44NN66	4h- 4	SM4	dDw
5 sPdcmb	4471	06N40S6	0NS6N1N	04 144N	066S 1	2MSN	dDw
5 spenC	1271	4- - N14	4h01N6-	4h 1h4S	4hSSh10	- M-	dDw
5 spenC	1272	h6 61	hh1 6	hh246	hhNS1	1MMS	dDw
5 GPmpcCr	- h71	1 61SSh-	24SN6242	26- 6 N2	2- - 64426	14M00	dDw
5 GPmpcCr	- h72	2S61h-	21h- 06	22S4S1	21- 00	- MN	dDw
5 Gpmb cmb	h272	h1hN	6S6-	4- - h	h1Nh	SM1	dDw
5 nesPT	h 72	- 4hN00	- 4h4S-	- 41SS	- 44S 6	SM0N	dDw
5 nDDr p	6- 72	1 - 1 S	1 - 2S4	1 - - - 0	1 - 244	SMS4	dDw
&EwDpnwcmb	1h671	- 20h	64S6	42- 1	46- N	1M0S	dDw
&EwDpnwcmb	1h672	4SS16	- N 0S	- 221	- 4S2	1M	dDw
Fpecmb	16471	014 -	0- 2- h	0S0 0	01N42	1M0h	dDw
Fpecmb	16472	2N1NS	2N- N0	2N4h4	2N- 4S	SMMS	dDw
HsonPCcmb	16S71	N2- h4	N4N1	N1 4	N- Sh6	1MMh	dDw
HsonPCcmb	16S72	4S40h	- 64	- 0 2S	- - 4N	- M1	dDw
y nPb cmb	16h71	06N0S-	N6 NN6	00h26	NS461	SMMN	dDw
y nPb cmb	16h72	41 - 4 N	410 4 0	416h 4	410 66-	SM-	dDw
tCocmb	11h71	0SN0S00	026 22	01Nh1N4	01NS02N	1M20	dDw
tCocmb	11h72	hh2 6	h- 44-	- NSh	4N - 2	1MSS	dDw
tpnC	h472	2124SN-	21414N-	21- h 06	21- - N40	SM42	dDw
tpnC	h672	- N0S24	- N1062h4	- N4222- 0	- N4- - 66-	SM0	dDw
tpnC	h072	2S14S	1 S- 1	14NS0	10 -	SM1	dDw
KpEDTnC	N- 71	- 46	- - 4	- N	- h6	NMS	dDw
Lr so	2S671	6S426	614 S	h h002	6ShS1S	1MM	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusbR:J	8 N
5 PrCTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S071	hS- - 2N	hS- 0 0	4 1446	4 h24	1M4S	dDw
Lr so	2SN71	2- 44- - 4	2- N- 60N	2- 61646	2- 6- 21	SMM-	dDw
LdTGmb	671	2h20S14	2hShNhh	2h- hh6	2h22N1-	SM01	dDw
9 sgOr wcmb	2472	N6S20-	Nh2216	Nh4S41	Nhhh1S	SM4	dDw
9 sOgsOr wr	hh72	h Sh2	h - 04	hN6N0	h S- N6	SMMN	dDw
9 nPEeor Omb	471	hh 0	h S1S	hh6S4	h6N0S	- M2N	dDw
9 nPEeor Omb	h71	4Nh1	4626	4Nh	400	2M00	dDw
9 nPEeor Omb	671	1- N04	14h2h	144hS	142N-	2M4	dDw
9 nPEeor Omb	071	- SSS	20N4	2 hS	2 11	- MS	dDw
9 nPEeor Omb	N71	01S2	066	0NN6	0hh2	hM6	dDw
u r noEb cmb	1hS71	16 40N	10- 2h1	10SN- N	1011N	1M12	dDw
u r noEb cmb	1hS72	h10S-	h14Sh	h1- 41	h14N-	SM0	dDw
u cdkr P	6S72	1S62- S	1Shh	1Shh- N	1Sh0N	SM6	dDw
8 GhwDGhpmw	- 172	hh- h	hN- h	h64-	h601	2M6N	dDw
8 nTswwcmb	- 72	46- N -	40S- 6N	4h hS	464h S	1MMN	dDw
. Ghocmb	1S- 71	0114S02	0204102	0S64 1h	01h1Sh-	1MM-	dDw
. Ghocmb	1S- 72	- 2N 6h2	- 1N00h1	- 112646	- 1 66N-	2M0N	dDw
I dsCocmb	4h71	4h 1 N	46SS4 4	406662-	46h- S- h	2M12	dDw
I dsCocmb	4h72	14h h1	14- 66	14- 40h	144464	SM1	dDw
I r PCcmb	N271	2226	22NS	21 2	22- -	1MMN	dDw
I r PCcmb	0072	2- -	2h0	220	2-	6MM	dDw
I r PCcmb	0N72	- 21	- 6	- 12	- - 4	M10	dDw
I dPdnC	2N71	1hN- 02 N	1h- 106h6	14N641S1	1h- - 6Nh	- M10	dDw
I dPr p	1S071	60N- 4	60hN-	6h4 N	66 02	1M12	dDw
I dPr p	1S 71	64661	64242	642- 4	64- 0	SMMN	dDw
I nocmb	2- 72	6 - 4	0102	66 4h	6 - 41	- M4h	dDw
I TpmCTcmb	N671	2220h1	210620	22hS11	2210 6	1M01	dDw
I TpmCTcmb	NN71	2S2N02	2S44- 2S	2S1 - hS	2S- SNSS	SM02	dDw
I mPmp	- 471	- S-	- S2 N6	- S1h6h	- S2NhS	SM4S	dDw
Ar pecmb	1h 71	1S110SN2	1S2N6621	1S1hS41S	1S1N40S4	SMMN	dDw
Ar pecmb	1h 72	41- S- N	4S10N 6	4S02- - 1	4S0- h42	1MMN	dDw
AGsPPmb	2S- 71	h - S-	h 11S	h0h2N	hN640	1M06	dDw
AGsPPmb	2Sh71	14266h	144S62	14SS4-	1422h0	1M4-	dDw
AdC	11N71	2SN2h	2Sh- 2	212SS	2SNh2	1M01	dDw
AdSCcmb	4071	1h2SSS	16S 0	1hS- 41	1h4446	- M01	dDw
RpsCcmb	2- N71	020- h	020- 4	02 4-	02NS4	SM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r :J	8 N
5 PrCTI sb DPP:t&:J	9 y SU2- I	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:u sb r :J	S0- q . FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h172	10 2N4	10 242	10N4N2	10 SS-	SM2h	dDw
YTTr peomb	10271	1 NS0	1 1h6	1 S14	1 - 26	2M1	dDw
YTTr peomb	10272	hh	2S	4N0	41N	1M6	dDw
YTTr peomb	10671	1hS 2	140 2	14hSN	140 N	1M0	dDw
YTTr peomb	10672	16N-	16016	16Nhh	16NS-	SM4h	dDw
YTTpomb	N 71	1- 4 h6 0	1- 46h4-	141SN612	1- NhS2N4	2M2	dDw
YTTpomb	N 72	142- h22	14116 6	1- 046-	14S- 2N6	1MM2	dDw
ZdCd	6672	126S41	120hNh	12NNN-	120hS-	1M12	dDw
ZqpdnComb	S71	14 01	140N 0	14h h-	140Nh6	1M20	dDw
ZqpdnComb	171	- - 6SS	- 4- -	- - - 04	- - 0N	1MMN	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4y8y88	hSy411	4y2SS4	hSS1- 4	1U0h	ql s
c n&AmonE	12171	24- 4	2- 0h	24y2	24- 4	2U4S	ql s
c rsenAq	0h72	1880	1yyy	18y6	1y28	- U2-	ql s
BarAum	1- h71	- 08846	- 8- 244	- 81h10	- 812S2	SUh8	ql s
BarAum	1- 071	604h- -	606211	66S146	60S2y0	1U 2	ql s
BerEIAum	y71	4yS6	486h	4y08	4y16	1U16	ql s
BAsmu&G	2Sy71	6y6h1- 2	6y6Shy8	01y0264	0S4Syy8	1Uy2	ql s
BAsmu&G	2Sy72	- 2y- 8h2	2hS8688	- 12- 841	2y0h46S	1- U88	ql s
BromAne	8171	6y20	64h2	6h- h	66- 8	- U82	ql s
RaOmAum	1S871	2- -	2SS	242	22h	yU8S	ql s
RaOmAum	1S671	44hy	4h18	4606	4hh1	2U46	ql s
RaOmAum	11171	1824	1yyy	1808	1ySS	4U02	ql s
RalqAum	4- 71	226280	22y241	228611	228S46	SU68	ql s
RalqAum	4471	- 818S8-	- 8hy121	- 884S68	- 8h- 0h0	SU86	ql s
Rarbon	1271	4- 148- 6	44hyS- -	464S- 0S	440141-	- U6h	ql s
Rarbon	1272	hh2h4	h4- 18	h61S8	hh220	1U62	ql s
RGlorAne	- h71	221y4180	2hh1h0S6	20y8- 8y6	2h2- 126-	11Uh1	ql s
RGlorAne	- h72	21Sh40	210- 01	221- 04	2164- 1	2Uh-	ql s
RGromAum	h272	20000	28442	26408	20h66	- U62	ql s
Robal&	hy72	- 2h- 4	- 2y2h	- 2Sy6	- 2h18	1U20	ql s
RoI I er	6- 72	0h- 6y	048S6	041Sy	04061	SU84	ql s
t EsI rosAum	1h671	1S6440	1S0y20	1SyS8h	1S082S	1U2-	ql s
t EsI rosAum	1h672	44Sh2	440Sh	4421-	44- 2-	SU00	ql s
. rbAum	16471	0y228	811y8	088S8	0y04h	1U6S	ql s
. rbAum	16472	- 122-	- 2S2h	- 1h08	- 16Sy	1U20	ql s
HaOolAnAum	16S71	y2602	y46h-	y166h	y2yy0	1U6-	ql s
HaOolAnAum	16S72	446h8	4h0y2	4- 4- 0	4462y	2U64	ql s
9 olmAum	16h71	1SS8- hS-	1SS2SS80	yyS66S4	1SSS- - y8	SUyS	ql s
9 olmAum	16h72	42S61h2	- 2SS28S	4S- 6048	- 814- y-	14U12	ql s
DnOAum	11h71	0102606	0106- y2	0S888h0	014hy0h	SU6y	ql s
DnOAum	11h72	y6- - 0h	016h- 6	y241S4	868SSh	1hU28	ql s
Don	h472	2S0h- 02	2S44621	2Sh206y	2Sh0h80	SU00	ql s
Don	h672	- 04660- 8	- 0y6268S	- 6- h1- 84	- 026S268	2U21	ql s
Don	h072	880106	8868yS	8668hS	88S- S6	1U 2	ql s
KrEI &on	8- 71	- - y	- 60	- 6S	- hh	4U2S	ql s
LeaO	2S671	4yy2- 6	h1216h	4y828-	hS- 228	1Uh4	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	410y- S	418888	412h20	416448	SU82	ql s
LeaO	2S871	1yh2yhh	1y88282	1yh1hy0	1y64208	1US6	ql s
LA&GAum	671	2401y00	2h8y14h	2h2h- 24	2h28816	2U2	ql s
5 agnesAum	2472	64- 864	66S22S	64SSSh	648S- S	1U66	ql s
5 anganese	hh72	4488- y	44y- 20	44SShS	446S02	1U10	ql s
5 olEbOenum	y471	- - 8hy	- - 16h	- - 0- -	- - h86	1U1S	ql s
5 olEbOenum	yh71	- 2hy	- 4Sy	- 4- 4	- - 60	2U81	ql s
5 olEbOenum	y671	y1S-	y462	yS0S	y212	2U16	ql s
5 olEbOenum	y071	2S84	22SS	2260	2184	4U2h	ql s
5 olEbOenum	y871	h- 68	h8h1	hhh1	hhyS	4U10	ql s
NeoOEmAum	1hS71	1y- 811	1y- 602	1yhhSS	1y4- 28	SUh2	ql s
NeoOEmAum	1hS72	hy6h2	h00h0	h82- 2	h8h40	1U68	ql s
NAqkel	6S72	1h2S8	1hy4y	1hhSy	1hhhh	2U4S	ql s
PGosI Gorus	- 172	- 8S1	- 6y2	- - 10	- 6S-	0US4	ql s
Po&assAum	- y72	- 14006	- 1S814	- S- 288	- Sy626	1U88	ql s
CGoOAum	1S- 71	018- 681	0- SSy41	018262S	0222414	SUy4	ql s
CGoOAum	1S- 72	- - 10S0y	24h- 4h6	- Sy- 026	2yh40h-	1hU10	ql s
pqanOAum	4h71	4648- 8S	40ySh1S	4684016	40S086y	1Uh0	ql s
pqanOAum	4h72	146hy-	11S10S	1- 88y-	1- 188h	14Uhh	ql s
pelenAum	8271	1yS	140	14y	162	14Uy2	ql s
pelenAum	0072	160	2S0	1y-	18y	1SU08	ql s
pelenAum	0872	1- 8	16S	126	141	12U2S	ql s
pAAqon	2871	121002- 6	12448846	122h8h22	122y4868	1U1-	ql s
pAver	1S071	4006	hSh1	46hy	482y	4U10	ql s
pAver	1Sy71	464-	4868	484-	4084	2Uh8	ql s
poOAum	2- 72	h220S	h2h12	h1h2h	h21S2	SUyy	ql s
p&onA&um	8671	2S0S12	21S80S	21226h	21SS4y	1U-S	ql s
p&onA&um	8871	1yS1226	1y04Shy	1yhS882	1y42Sh6	1Uy2	ql s
pulfur	- 471	20- 2y2	20012y	206yS2	20h004	SU08	ql s
i erbAum	1hy71	1S1y4y2h	1S22h6y6	1SS22- h8	1S14066S	1US8	ql s
i erbAum	1hy72	418220y	- 11426-	- y- 86Sh	- 04hS4y	14Uyh	ql s
i GallAum	2S- 71	21SS	24- 4	1y10	21hS	12U18	ql s
i GallAum	2Sh71	h28h	h41S	hS26	h24S	- U0-	ql s
i An	11871	21806	2226S	22h- 6	22224	1U4y	ql s
i A&anAum	4071	12y1h-	128018	128666	128846	SU21	ql s
MranAum	2- 871	8SSh-	82- hy	8S8yy	811S4	1U44	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	44208	4- y- 4	424S-	4- h- 8	2U2y	ql s
Y&erbAum	10271	21044	21hh1	212S1	214yy	1U28	ql s
Y&erbAum	10272	yy- 2	1Shy-	1S121	1S21h	- U4	ql s
Y&erbAum	10671	1h406	140hS	1h468	1h2- 1	2U04	ql s
Y&erbAum	10672	106h6	1h- hy	102- y	160h2	0U1	ql s
Y&&Aum	8y71	1- yS8y62	1- 8221Sh	1- 881042	1- 80Sy- 6	SU2	ql s
Y&&Aum	8y72	14y8- y2	1118- h0	1- 10Syh	1- 11281	14UhS	ql s
ZAnq	6672	h26y8	h4y6S	h- 2yS	h- 64y	2U1y	ql s
ZAqonAum	yS71	86yy0	862h8	8hy4S	86- y8	SU6-	ql s
ZAqonAum	y171	18y8S	1y6y8	186- 8	1y1Sh	2U8-	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUND

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
c lumAnAum	2072	4hhh66	4h- C01	CSSh40	4h8161	SN8S	ql s
c n&AmonE	12171	CS4-	4hS1	CC6S	C168	6N01	ql s
c rsenAq	0C72	181S	1000	10S8	106C	2N1C	ql s
BarAum	1- C71	- C0C82	- 6426-	- 6- 6hS	- 6184C	1N82	ql s
BarAum	1- 071	6- 40S8	6- 48h6	6- 8C84	6- 6S6-	SN14	ql s
BerEllAum	h71	1h81	2S16	1h42	1h8S	1N86	ql s
BAsmu&G	2Sh71	C- 124S1	660618C	6840- C0	6208648	1- N4S	ql s
BAsmu&G	2Sh72	- - S0S08	- 20h- 24	- 24- S16	- 20640-	SN18	ql s
BromAne	8171	06- 6	82S-	8- 08	8S02	4N81	ql s
5 aOmAum	1S871	20C	2C4	- 0C	- S1	21N4-	ql s
5 aOmAum	1S671	- C42	42S1	- h60	- hS-	8N0C	ql s
5 aOmAum	11171	- Ch6	- 8Ch	- Ch-	- 68-	4N16	ql s
5 alqAum	4- 71	1606- 4	16h4S0	16hShC	168012	SN06	ql s
5 alqAum	4471	28- 2CC8	28hh1- C	2882048	2801481	1N21	ql s
5 arbon	1271	C8262CS	Ch0C18h	611- C2S	Ch016C-	2N41	ql s
5 arbon	1272	0- S04	02h2-	0- - SS	0- Shh	SN26	ql s
5 GlorAne	- C71	22- 6068C	262- 1h26	282C2121	2C610244	11N80	ql s
5 GlorAne	- C72	2S8601	21- 416	210- 48	21- 14C	2N84	ql s
5 GromAum	C272	4- 442	42h14	4- 102	4- 106	SN01	ql s
5 obal&	Ch72	2- 44-	2- 48h	2- 4h6	2- 406	SN12	ql s
5 ol I er	6- 72	8h41h	80411	8842-	88418	1N14	ql s
t EsI rosAum	1C671	C- 44h	C2- 28	C- SC6	C2h4C	1N80	ql s
t EsI rosAum	1C672	21284	21Ch1	2S0C-	212Sh	2N8S	ql s
FrbAum	16471	4S262	4SC01	41482	4S002	1N06	ql s
FrbAum	16472	1Ch0-	1C82-	16ShS	1Ch62	SN84	ql s
HaColAnAum	16S71	4Ch8S	461- h	40Sh2	464S4	1N1S	ql s
HaColAnAum	16S72	214S0	211- 0	211SS	2121C	SN0h	ql s
y olmAum	16C71	04C2- 41	h2hh4- -	h60- hS4	88S8CCh	1- N0S	ql s
y olmAum	16C72	42- C0S6	416S048	42466h0	4214- 84	1N11	ql s
DnOAum	11C71	CCCh01	68682hS	0S401S0	64h10hS	12N01	ql s
DnOAum	11C72	h- 8628	h62- - C	h4- hS8	h482hS	1N11	ql s
Don	C472	10- 8h24	102hS4h	10Sh4- 6	102C8S-	SN80	ql s
Don	C672	- Sh48SC0	- SC84C28	- S1h- S08	- SC0C221	1N2-	ql s
Don	C072	0216S2	026081	021421	02- 268	SN42	ql s
KrEl &on	8- 71	- hC	- 1C	- 1h	- 4-	1- N10	ql s
LeaO	2S671	h4h404	hC22- 2	hCS84-	hCS84h	SN1C	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
LeaO	2S071	0hC- C-	0h- 411	0h4121	0h42hC	SM12	ql s
LeaO	2S871	- 86h4- -	- h- 82SC	- 80SCCS	- 8h20- S	1N31	ql s
LA&GAum	671	2Sh- 62h	2421- - 4	2C1hh61	2- 44h0C	hM02	ql s
9 agnesAum	2472	- 6hhh4	- 6- 88S	- 680h0	- 60CC0	SM38	ql s
9 anganese	CC72	C0h8CS	C81648	C0h02C	C8S4S8	SM1h	ql s
9 olEbOenum	h471	hh80	1S621	h80h	1S162	- M1C	ql s
9 olEbOenum	hC71	40C1	C- h-	4068	4h0S	0M6	ql s
9 olEbOenum	h671	628C	68C2	68C2	666-	4M1	ql s
9 olEbOenum	h071	- - 10	- 2Sh	- - 26	- 284	1M8	ql s
9 olEbOenum	h871	0011	0000	8S1h	08- 6	2N30	ql s
NeoOEmAum	1CS71	h2h28	hSh2S	h- - 2-	h2- hS	1Mh	ql s
NeoOEmAum	1CS72	206hh	2080-	20- 88	206C-	SM3h	ql s
NAqkel	6S72	12SS2	110- 8	11- S1	1168S	- N3-	ql s
PGosI Gorus	- 172	C1Sh	CSS1	4h- 4	CS1C	1M06	ql s
Po&assAum	- h72	- 1444C	- 141SC	- 14h22	- 144h1	SM1-	ql s
. GoOAum	1S- 71	C4C- 1Sh	68S1- 16	0S448S4	64- - S06	1- M-	ql s
. GoOAum	1S- 72	- 284- 4h	- 216h81	- 241C02	- 2406- 4	1N3C	ql s
pqanOAum	4C71	- C2h044	420C04C	4C0hh8h	41284h-	1- N3h	ql s
pqanOAum	4C72	14S21C	142102	14208C	141024	SM1C	ql s
pelenAum	8271	11h	122	1S8	116	6M01	ql s
pelenAum	0072	110	8S	1- -	11S	24M31	ql s
pelenAum	0872	82	0S	8h	8S	11M16	ql s
pAAqon	2871	8h14868	8h18CC-	8hh2868	8h42Sh6	SM4h	ql s
pAver	1S071	1Ch- C	16- C2	1C04-	16S1S	1M14	ql s
pAver	1Sh71	146h2	1C12C	1C0- 4	1C184	- M4C	ql s
poOAum	2- 72	48140	460Sh	48024	4086S	2M10	ql s
p&ona&um	8671	210- S1	210hCS	21022h	2104h-	SM18	ql s
p&ona&um	8871	2SC682h	1h88668	1h66C24	2SS4SS0	2MC	ql s
pulfur	- 471	2084SC	2814- 0	2814S2	28S41C	SM02	ql s
i erbAum	1Ch71	08488- 8	h610S8S	h0- 22C0	hS66SC8	11M04	ql s
i erbAum	1Ch72	4S82222	41C208h	4S- h- 04	4Sh1462	1M4S	ql s
i GallAum	2S- 71	1642	1060	18SS	10- 6	4M31	ql s
i GallAum	2SC71	- 826	- Ch2	4126	- 848	6M1C	ql s
i A	11871	2h4S0	2hC04	2hS4S	2h- 4S	SM1-	ql s
i A&anAum	4071	1- 1S02	1- SCh-	12h1h8	1- S288	SM7C	ql s
RranAum	2- 871	C- 4SC	C- - 88	C2h4C	C- 246	SM4h	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAn&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
VanaOAum	C172	CSC02	4h816	C11S4	CS4h8	1M28	ql s
Y&erbAum	10271	12- h8	12- O6	122O6	12- - 0	SM0h	ql s
Y&erbAum	10272	C024	O6S1	ChC0	C061	- M14	ql s
Y&erbAum	10671	hC2h	8hS-	h10S	h2S1	- M41	ql s
Y&erbAum	10672	146h2	14C0C	14881	14016	1M3C	ql s
Y&&Aum	8h71	1S4C04C0	12h6C0Sh	1- 1h62- S	122S646C	12M44	ql s
Y&&Aum	8h72	1- S2- 66	1- 6hCSC	1- S- 4S2	1- 2CSh1	2M1S	ql s
ZAnq	6672	h4C1-	h4h86	h4h4h	h4816	SM28	ql s
ZAqonAum	hS71	1hhh8	2S04h	1h4- h	2SS62	- M28	ql s
ZAqonAum	h171	484-	4426	4406	4C81	4M10	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	41J26h	414S16	4S6JSN	411h- 1	1M1J	dDw
qCTb nCE	12171	- SSS	- 1Sh	2NJh	2hNh	4M2S	dDw
qpw r Ccd	0J72	14J6	1J1S	1410	1461	- M2S	dDw
Bspcmb	1- J71	26N2hJ	26NS1h	266NNh	2600- J	SM2N	dDw
Bspcmb	1- 071	464064	460J- 6	402N02	46N- hS	SMMN	dDw
Br pEPmb	h71	1J1S	16S4	1626	1JNS	- M1S	dDw
Bcwb mTG	2Sh71	6N- h- 4-	6hN6221	6N4S400	6NNN6NS	1M4-	dDw
Bcwb mTG	2Sh72	- 1JS0SN	- 2JhhNN	- 204N- S	- 22NJSN	2M1S	dDw
Bpmb cCr	N171	021S	0S44	0444	02- -	2M0N	dDw
5 sob cmb	1SN71	2SN	242	- 10	2J6	21M01	dDw
5 sob cmb	1S671	- N60	4S42	42- 4	4S4N	4M-	dDw
5 sob cmb	11171	- JJ4	- 1NJ	- - 0-	- - 01	JM46	dDw
5 sPlcmb	4- 71	1SJS6S	1S04- 2	1S4JS1	1SJ664	1M40	dDw
5 sPlcmb	4471	1NJ2S6N	1N6h2S-	1NS1S04	1N4S0N2	1M1-	dDw
5 spenC	1271	4S21S1S	4SN21- h	4SJh664	4SJ4201	SM06	dDw
5 spenC	1272	JSJh6	4h1JN	4N41-	4h- Nh	2M2J	dDw
5 GPmpcCr	- J71	2- 6h611S	20J010S-	2h04110h	20SS2hh0	11M4	dDw
5 GPmpcCr	- J72	224J40	2204h2	22h2J-	220Sh0	1M3J	dDw
5 Gpmb cmb	J272	- 6112	- 6S4h	- 6- 6-	- 610J	SM46	dDw
5 nesPT	Jh72	1hhh4	1hJJ0	1h0S0	1h0J-	1M12	dDw
5 nDDr p	6- 72	646S-	6JS42	64666	6400S	SM10	dDw
&EwDpnwcmb	1J671	41S- N	411- 1	- h4- 4	4SJ- 4	2MJ	dDw
&EwDpnwcmb	1J672	102SJ	1064J	10- 11	10- N0	1M12	dDw
Fpecmb	16471	- 1N22	- 220-	- 146-	- 1NJ-	1M2N	dDw
Fpecmb	16472	1- 24-	1- S6S	12h1S	1- S01	1M2N	dDw
HsonPCcmb	16S71	- J6J0	- 0261	- 0- J-	- 60J0	2M6S	dDw
HsonPCcmb	16S72	10J2J	10JNJ	16h21	10- 44	2M12	dDw
y nPb cmb	16J71	h60NNS6	hh16426	h22hJ00	h6SN20S	- M0-	dDw
y nPb cmb	16J72	- hNh221	42- S146	4106N04	41- 2SNS	- M36	dDw
tCocmb	11J71	6h6J- 46	02446N-	6Nh2NhN	0S- 4- Sh	2M64	dDw
tCocmb	11J72	h1S1h4	hJJ1Nh	h6JhSN	h4- 06-	- M1-	dDw
tpnC	J472	126JSS2	122J12h	122NJ0S	12- hJ60	1M0N	dDw
tpnC	J672	241NJ- - h	24- S60- S	2- Nh6J40	2412hJ- h	SMM0	dDw
tpnC	J072	J6h- 04	J04N1-	J6164-	J6N61S	1M16	dDw
KpEDTnC	N- 71	- 12	2h4	- 16	- S0	- M12	dDw
Lr so	2S671	N6J1N1	NJ212J	N61JN-	NJh62h	SM0N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	01hJ1h	01N616	01426N	01046N	SMlh	dDw
Lr so	2SN71	- 6S6hh4	- J64S0S	- J4J11-	- J02SJh	SMNh	dDw
LdTGmb	671	2JJS166	2J0SS1S	2J- 1S1S	2JJS- hJ	SM06	dDw
9 sgOr wcmb	2472	2JJS0S	2JJ122	24062h	2J26S0	1M01	dDw
9 sOgsOr wr	JJ72	6SSh6N	Jh- 1JS	JNh0Jh	Jh4626	SM10	dDw
9 nPEeor Cmb	h471	0- 44	00S2	0J61	0J- 6	2M4S	dDw
9 nPEeor Cmb	hJ71	- S60	- 2- 4	- 2N4	- 1hJ	- MJ	dDw
9 nPEeor Cmb	h671	4S60	4J- 4	4J26	4- 06	6M1S	dDw
9 nPEeor Cmb	h071	2S2J	1N2J	1N- 4	1NhJ	JM10	dDw
9 nPEeor Cmb	hN71	4h1N	4Jh-	4026	404J	- M44	dDw
u r noEb cmb	1JS71	04- SJ	0- hh6	0- N2-	04S42	SM-	dDw
u r noEb cmb	1JS72	22- 4h	22- J2	21h1N	222S6	1M12	dDw
u cdkr P	6S72	11- 4J	111S4	112J1	112- -	1MSN	dDw
8 GhwDGhpmw	- 172	- 1- 4	2h60	2NSh	2h0S	JM40	dDw
8 nTswwcmb	- h72	1h- - J0	1h4h64	1NN220	1h21N-	1MM-	dDw
. Ghocmb	1S- 71	6h1hJ6N	0SJ04S1	6NN0N- 6	6hJ4h- J	1M1S	dDw
. Ghocmb	1S- 72	- Sh4601	- 2h661N	- - S14N4	- 2- Sh24	- M0J	dDw
I dsCocmb	4J71	44N1004	46N1166	4JS4NhS	4JJJh4-	2Mlh	dDw
I dsCocmb	4J72	1- Nh4h	142S1N	1446N1	141NN-	2MS2	dDw
I r P Cmb	N271	N1	120	h4	1S1	2- M0-	dDw
I r P Cmb	0072	1SS	11-	0S	h4	2- MS	dDw
I r P Cmb	0N72	J1	6N	JN	Jh	14M4N	dDw
I dPdnC	2N71	1244S- JN	12JN6J1-	12- 66SS2	124642h1	SM1S	dDw
I dPr p	1S071	1- - 6J	141N-	141h1	1- h1-	- M41	dDw
I dPr p	1Sh71	1- 4S0	1- 06J	1- NJ0	1- 600	1M04	dDw
I nocmb	2- 72	JNSh1	J0hJ0	J0402	J0N4S	SM16	dDw
I TpnCTcmb	N671	144hJ1	1J112S	14h2h-	14N4J4	2M1-	dDw
I TpnCTcmb	NN71	120h- hN	12h6S0h	12N0SNh	12N0J22	SM0J	dDw
I mPmp	- 471	2JhS20	2J41- 4	2J- h- S	2JJ6h0	1M1-	dDw
Ar pecmb	1Jh71	h602NJJ	1S110JJ4	h0S110N	hN- SJ2h	2M-	dDw
Ar pecmb	1Jh72	- h- hh- N	41- 62J6	414S4Nh	4S0222N	2MM1	dDw
AGsPcmb	2S- 71	1- SS	1- 0J	1JSN	1- hJ	0M10	dDw
AGsPcmb	2SJ71	- S42	- - S1	- S60	- 1- 0	4M4	dDw
AdC	11N71	1hJ14	1hh2-	1h6S6	1h6N1	1MSh	dDw
AdSCmb	4071	N2h- h	NJ402	N44h1	N4- S1	1M1	dDw
RpsCmb	2- N71	41J- J	41- h-	4ShN-	41- S4	SM0h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8N
5 Rr CTI sb DP t&:	9 y SU26	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP u sb r:	S06q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4S604	- N6h6	- N662	- h- 44	2M1-	dDw
YTTr pe omb	10271	h6S4	h12N	h0- 0	h4hS	- M0	dDw
YTTr pe omb	10272	4N0-	4JhJ	4JS1	46J6	4M16	dDw
YTTr pe omb	10671	026h	046h	0100	0- SJ	2M34	dDw
YTTr pe omb	10672	12010	141JN	1- 0NS	1- JJ2	JM1	dDw
YTTpomb	Nh71	120- 10- 4	1- 200h02	12N62h16	12hJ0J41	2M2S	dDw
YTTpomb	Nh72	12- h1- S	12h- - J1	1- 212S4	12N4J62	- M2J	dDw
ZdCd	6672	042- 0	0- hJ2	0- JhS	0- h26	SM44	dDw
ZqpdnComb	hS71	14h- -	1J6S1	1J2- 4	1J2J6	2M1h	dDw
ZqpdnComb	h171	- J- 4	- 010	- - 26	- J26	JM16	dDw

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	4- - SSS	42yy21	42- 8S8	428y1S	1U5y	ql s
c n&Amonh	12171	2E2E	2684	2EES	2E86	- U2y	ql s
c rsenAq	0E72	1- S8	1- 16	12- 0	1280	- U- 8	ql s
BarAum	1- E71	- 14S4-	- 14S- 6	- S4862	- 1Sy8S	1U0S	ql s
BarAum	1- 071	EE88E-	EE2y6E	E48- S0	EE- - 0E	SUy6	ql s
BerhllAum	y71	1681	10- 0	1026	101E	1U04	ql s
BAsmu&G	2Sy71	6y0402y	0- y6E8S	0004y24	0- 82S00	EU42	ql s
BAsmu&G	2Sy72	- 2S06E4	- - 48y84	- 2101EE	- 2E0y- 1	2U42	ql s
BromAne	8171	0800	8108	8E- 6	81y0	4U52	ql s
RaOmAum	1S871	21-	2E8	18-	218	10U- 4	ql s
RaOmAum	1S671	42Ey	4SS1	46Sy	42yS	0U12	ql s
RaOmAum	11171	2661	266E	28S4	201S	- U5S	ql s
RalqAum	4- 71	- 014EE	- 0- - 10	- 6040E	- 0S04y	SU8S	ql s
RalqAum	4471	626- 68y	6- 0y46y	61yE264	620y404	1U48	ql s
Rarbon	1271	E80400y	61S- Sy2	61408- 1	6S41yS1	2U42	ql s
Rarbon	1272	0- 620	0EEyE	0- 044	04- 22	1U4y	ql s
RGlorAne	- E71	2- 611- - 6	20- yy282	2yE1SE06	2684S- y8	11U14	ql s
RGlorAne	- E72	22- 1E2	226681	2- S066	226866	1U68	ql s
RGromAum	E272	- 01E2	- 6640	- 0- 12	- 0S- 0	SUy4	ql s
Robal&	Ey72	22EE1	226yE	22S10	22421	1UEy	ql s
Rol I er	6- 72	6E00E	664S8	66S0-	66S8E	SU48	ql s
t hsI rosAum	1E671	40210	46066	4E412	4646E	2U52	ql s
t hsI rosAum	1E672	1y6S1	18y1-	1y2S1	1y2- 8	1U8S	ql s
. rbAum	16471	- 66- E	- 686S	- E264	- 62E-	2U- 8	ql s
. rbAum	16472	14641	14688	14- - 1	14EE4	1U-	ql s
HaOolAnAum	16S71	4126E	41S- y	412- 1	4110y	SU- S	ql s
HaOolAnAum	16S72	2S2Ey	1y60E	1yES8	1y814	1Uyy	ql s
9 olmAum	16E71	1SS1204-	1SSE- 8E0	11- ySy26	1S48E842	0U48	ql s
9 olmAum	16E72	416SS8-	4180144	4S448- y	41- S68y	1U8-	ql s
DnOAum	11E71	0- 0E0yy	0466180	8Sy- y62	064E- 16	EU12	ql s
DnOAum	11E72	y6S- S4	yE- Ey6	y40486	yE- 0yE	SU60	ql s
Don	E472	1- 88000	1- 0SE- E	1- 8E6S4	1- 816- y	SU01	ql s
Don	E672	2ES- 0- Ey	24E082E-	24080448	248S1S2S	SUy-	ql s
Don	E072	6SS442	E8y18y	E8y- 0S	Ey- SSS	1U5y	ql s
Krhl &on	8- 71	- - E	- 40	281	- 21	1SUy6	ql s
LeaO	2S671	420S0-	4- 0- 82	4212S8	428EE4	1Uy1	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- E0114	- 64y- 1	- 44S44	- EE- 6-	2Uy0	ql s
LeaO	2S871	160yy62	10SE80S	16- 424E	160- - Ey	2U10	ql s
LA&GAum	671	246- 801	2E88811	28228y6	262E1y-	6Uy4	ql s
5 agnesAum	2472	68S- yE	68864y	60E062	6816S2	SUy6	ql s
5 anganese	EE72	- - 82S0	- - 6444	- - - - y0	- - 6S16	SU02	ql s
5 olhbOenum	y471	yy0S	1SS2y	1S- y6	1S1- 2	2U28	ql s
5 olhbOenum	yE71	2y10	2y42	28ES	2yS-	1U6-	ql s
5 olhbOenum	y671	4068	4606	4- 10	4E80	EU1y	ql s
5 olhbOenum	y071	1y0E	18y2	1042	180S	6U-	ql s
5 olhbOenum	y871	4ES1	4484	40S1	4E62	2U64	ql s
NeoChmAum	1ES71	8S6- E	81144	0yyES	8SE06	SU04	ql s
NeoChmAum	1ES72	24y80	244E6	2- 0y8	2441-	2U44	ql s
NAqkel	6S72	124- 6	1220E	12E0y	124- S	1U22	ql s
PGosI Gorus	- 172	E01S	EyE1	E468	E01S	4U2-	ql s
Po&assAum	- y72	4SS1S6	- y10y4	- y4y- y	- yE61-	1US6	ql s
CGoOAum	1S- 71	016002y	020- EyS	0yE0S22	0466114	EU04	ql s
CGoOAum	1S- 72	- 218626	- 2S0E40	- 282y14	- 2- 6- 62	1U26	ql s
pqanOAum	4E71	4620E81	4680228	E2yS0- E	4868E1E	0UE4	ql s
pqanOAum	4E72	1440S4	14- 26S	14SyS1	142yEE	1U4	ql s
pelenAum	8271	116	82	166	122	- 4U6-	ql s
pelenAum	0072	6-	8-	y0	81	2SU6y	ql s
pelenAum	0872	80	06	84	82	6Uy1	ql s
pAAqon	2871	y1- E- 1y	y1Ey08E	8y4S242	yS0844y	1U-	ql s
pAver	1S071	- 8- 4	- 426	- 8Sy	- 68y	6U21	ql s
pAver	1Sy71	- 4y2	- 442	- EE1	- 4yE	1UEE	ql s
poOAum	2- 72	E2648	E1Syy	ES- 88	E1- 08	2U2E	ql s
p&ona&um	8671	- 84ES6	- y4- 22	- 081y-	- 8E60-	2U11	ql s
p&ona&um	8871	- E48- - 8	- E- SyS1	- 42y820	- ES- S22	1U8-	ql s
pulfur	- 471	2084E4	2826- 4	2801E6	282048	1UE4	ql s
i erbAum	1Ey71	1S22- 212	1S44E2S0	11- 222E0	1S66- EEy	EU4E	ql s
i erbAum	1Ey72	416Sy46	- yy- E- 4	4S4S- 2-	4S64y- 4	2U12	ql s
i GallAum	2S- 71	1010	1E10	1442	1EE8	yU12	ql s
i GallAum	2SE71	4SSy	- 0Ey	- 260	- 608	1SU26	ql s
i A	11871	1- - 24	1- - yS	12y1E	1- 21S	1UyE	ql s
i A&anAum	4071	yS8yE	y- Ey0	y4S60	y28E-	1U84	ql s
MranAum	2- 871	E- 82-	EEES6	E- SS-	E4111	2U6	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- E- 14	- 6266	- E0EE	- E008	1U -	ql s
Y&erbAum	10271	1S4S4	1Sy- 8	1S20y	1SE41	- U 2	ql s
Y&erbAum	10272	ES- 4	E14S	4yyE	ESE0	1U48	ql s
Y&erbAum	10671	8S6y	0y6y	8486	810E	- U E	ql s
Y&erbAum	10672	14- 14	1- 804	14S46	14S08	1UE0	ql s
Y&&Aum	8y71	1- - 2- S86	1- 64414y	1E288686	14S8E- S0	0U4y	ql s
Y&&Aum	8y72	1- 86460	1- S62E4	1- S- 0E8	1- - 216S	- UE-	ql s
ZAnq	6672	40SE1	48S81	404Ey	40E- 1	1USy	ql s
ZAqonAum	yS71	2- 2yE	241- S	22600	2- - 60	- U 2	ql s
ZAqonAum	y171	ESy-	ES68	E4E1	E2S4	4U 2	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	42Sy80	4S2- 28	412108	4118- 1	2U20	ql s
c n&Amonh	12171	2210	1yES	24Sy	21y2	1SUES	ql s
c rsenAq	0E72	1446	1- 0S	1- E0	1- y1	- U46	ql s
BarAum	1- E71	2y8- 6-	- S4Sy8	- S6626	- S- S2y	1U4S	ql s
BarAum	1- 071	E- 8- 8E	E- ES- -	E- 00SS	E- 0S- y	SU-	ql s
BerhllAum	y71	16y0	102y	1626	1684	- U12	ql s
BAsmu&G	2Sy71	68y486y	6y0S8Ey	6y01- 60	6y4E6yy	SU6-	ql s
BAsmu&G	2Sy72	2y00y4y	- - E- 606	- 21E80-	- 1824yy	EUy0	ql s
BromAne	8171	001y	8211	8128	8S1y	- U28	ql s
RaOmAum	1S871	1y2	242	16-	1yy	2SU16	ql s
RaOmAum	1S671	44E1	- y84	- yy2	4142	6U4E	ql s
RaOmAum	11171	2211	21y6	2- 2-	224-	- U1S	ql s
RalqAum	4- 71	- E6428	- 6S20y	- E2621	- E644-	1US0	ql s
RalqAum	4471	Ey6S01E	6S2016E	Ey- - 6E-	Ey0- 844	SU81	ql s
Rarbon	1271	- 6- - 02y	- 0- yE8S	- 00- 1y1	- 01EESS	1Uy6	ql s
Rarbon	1272	44620	4E- 0S	4E6- 8	4E212	1U16	ql s
RGlorAne	- E71	2- - 6216S	20S8E06E	286- 0444	26- 610yS	1SU28	ql s
RGlorAne	- E72	218SE8	21821S	22E- yE	22SEE4	1UyS	ql s
RGromAum	E272	2y80E	2881y	2y- 1-	2y- - 6	1U8S	ql s
Robal&	Ey72	2S002	2Sy22	2SE- 2	2S042	SUyE	ql s
RoI I er	6- 72	E28E8	ES2SE	ES8S0	E12yS	2U01	ql s
t hsI rosAum	1E671	4ES18	4- S0y	4- 0- 1	4- y4-	2U2E	ql s
t hsI rosAum	1E672	10y- y	10y42	1004E	1080E	SU6-	ql s
. rbAum	16471	- - 8S2	- 2- - 2	- - Ey-	- - 242	2Uy	ql s
. rbAum	16472	1- 44S	1- 210	1- - S0	1- - 21	SU84	ql s
HaOolAnAum	16S71	- 8114	- 00y6	- y18-	- 8- 64	1U8y	ql s
HaOolAnAum	16S72	18- - y	10yyy	18- 2y	1822-	1US6	ql s
9 olmAum	16E71	1SS1y2- 0	y8y6S00	y8SyEyy	yyS8- S4	1US6	ql s
9 olmAum	16E72	- 8640Ey	42SE0S8	4166E12	4S08yy-	4UE0	ql s
DnOAum	11E71	0SSSEy-	02800E8	02208- y	0102S6-	2U11	ql s
DnOAum	11E72	8EE864	y66S8E	y- 00y8	y1yy16	6U22	ql s
Don	E472	12460- 8	110y180	118S1S-	12S2S1S	- U22	ql s
Don	E672	2- - 8- 68y	2284yS06	2- SEy066	2- Sy0E1S	1U10	ql s
Don	E072	EE8820	E42- 01	E44y2-	E480S0	1U61	ql s
Krhl &on	8- 71	2y4	2y2	281	28y	2U8	ql s
LeaO	2S671	- 640Sy	- 66826	- 68E42	- 666y2	SUE2	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- S22- 8	- S0S66	- SE2ES	- S48E1	SU3S	ql s
LeaO	2S871	141- 08E	1420E- -	14- 10y2	1424- 0S	SU66	ql s
LA&GAum	671	2E11844	2E2y81S	2E2- 1E4	2E216S-	SUJ6	ql s
5 agnesAum	2472	4E- S06	4- 88- 2	44y06y	440226	1U60	ql s
5 anganese	EE72	- 180- 1	- S81- 4	- 11EE2	- 128S6	1U0-	ql s
5 olhbOenum	y471	86S-	8yS-	y62S	yS42	EU08	ql s
5 olhbOenum	yE71	2110	2- SS	2284	22- 4	4UE4	ql s
5 olhbOenum	y671	- E06	4SS1	- 826	- 8S1	EU62	ql s
5 olhbOenum	y071	14S8	1- ES	102E	14yE	1- UES	ql s
5 olhbOenum	y871	- - ES	- 810	- 026	- 6- 1	6U31	ql s
NeoChmAum	1ES71	0E820	0Ey2S	0021E	06- 21	1US2	ql s
NeoChmAum	1ES72	22y4-	22- yy	2- 1S0	22816	1U62	ql s
NAqkel	6S72	1S28S	1S1E0	1S104	1S2S4	SU66	ql s
PGosI Gorus	- 172	28- 4	2EES	2410	26SS	8U18	ql s
Po&assAum	- y72	2406SS	241112	24E1- E	244616	1UJ4	ql s
CGoOAum	1S- 71	0S218SS	0- - E6- E	6y8yy14	011E08-	2U6y	ql s
CGoOAum	1S- 72	2y206Ey	- 2S6006	- 1860- 6	- 1S0SE0	EUS1	ql s
pqanOAum	4E71	4E01681	40S12y1	448E220	4E86S66	2UJ0	ql s
pqanOAum	4E72	1202y4	142- Sy	14SES0	1- 60S-	6USS	ql s
pelenAum	8271	64	1SE	y6	88	24U61	ql s
pelenAum	0072	E0	8S	0S	6y	16Uyy	ql s
pelenAum	0872	64	E8	6S	61	EUS-	ql s
pAAqon	2871	1SS1021-	1S1818S2	1SS284y0	1SS0E8- 8	SUy1	ql s
pAver	1S071	20ES	- S- 4	20SS	2828	6UJ6	ql s
pAver	1Sy71	20y2	20Sy	2042	2048	1UE-	ql s
poOAum	2- 72	60666	6E6yy	66862	66042	1U48	ql s
p&ona&um	8671	- 6- - 1y	- 61y18	- 6S06S	- 61yyy	SUJE	ql s
p&ona&um	8871	- - 01648	- 20E8SS	- 281S0E	- - SyES8	1U6-	ql s
pulfur	- 471	26811-	268y82	201yES	26y681	SU0E	ql s
i erbAum	1Ey71	1SS806- E	1S20SyE4	1SS11- 0S	1S12- - 2S	1UJ2	ql s
i erbAum	1Ey72	- 66yy80	41664y4	4S6182S	- y661SS	6U6S	ql s
i GallAum	2S- 71	1- 0E	120E	148-	1- 08	0UE6	ql s
i GallAum	2SE71	- - Sy	- - 10	- - 84	- - - 0	1U2-	ql s
i An	11871	1- E- 2	12E81	12yyS	1- S- 4	- U66	ql s
i A&anAum	4071	0ESy6	00- - -	0E- 82	0Ey- 0	1U6S	ql s
MranAum	2- 871	2800E	- S42y	- S4y6	2yySS	- U26	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- 4yE-	- 4411	- - y- 0	- 44- 4	1U48	ql s
Y&erbAum	10271	yy01	yy0y	y080	yy12	1US y	ql s
Y&erbAum	10272	4y62	40E1	48S1	48- 8	2U28	ql s
Y&erbAum	10671	0011	0E- 6	04y4	0E8S	1UE2	ql s
Y&erbAum	10672	120E1	141E2	14Sy0	1- 660	EU31	ql s
Y&&Aum	8y71	1- - SE0- E	1- 4y- E20	1- E20206	1- 44210y	SU3y	ql s
Y&&Aum	8y72	11yE2- S	1- 46S- 2	12y64- 8	120y2- -	6US1	ql s
ZAnq	6672	- - 0S-	- 1y4y	- 1y- 6	- 2E- S	- U12	ql s
ZAqonAum	yS71	1y06E	1yy6E	1yy2-	1y884	SUE-	ql s
ZAqonAum	y171	4606	44- 4	42- 4	4448	4Uy0	ql s

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Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T qbiqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16.J2aJ1a	TwiwMqbp:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 410	44a - 2	442u2	44uu44	1R20	Qt I
d. iqe C. E	12171	20Sa	2uSa	2u10	200u	2R10	Qt I
dIl p. qO	0 72	224	216-	210S	21a-	2RS0	Qt I
Bwldpe	1- 71	2 2S00	24 114	242210	24646a	2RS6	Qt I
Bwldpe	1- 071	4- aa1	4- aSu4	42aS 4	4- 401S	1R1u	Qt I
BplE8dpe	a71	1640	16u6	1611	164u	2R2u	Qt I
Bdqe biG	2Sa71	62 6S1	0 u400	00 uaa	01aaa2u	11R42	Qt I
Bdqe biG	2Sa72	- 244uua	- 2a6611	- 2640- u	- 26u046	SRuS	Qt I
BlCe q p	u171	16 20	166-	1uS- 0	10S66	4Ra4	Qt I
9 wne dpe	1Su71	21-	2S4	2a6	2- u	21R 4	Qt I
9 wne dpe	1S671	- 006	4u06	4406	4- 06	12R0-	Qt I
9 wne dpe	11171	- 1- -	- - 24	- 1u-	- 21-	- RSu	Qt I
9 w8Qdpe	4- 71	022ua2	01SaSa	0104- -	010S0u	SRu4	Qt I
9 w8Qdpe	4471	121112- 2	121241Su	12S6ua4S	121S1420	SR24	Qt I
9 wlr C.	1271	ua2 uaa	a26SS0a	a2a6u46	a16Sa41	2R2-	Qt I
9 wlr C.	1272	11 a14	114S- 2	11- - S-	114416	1R1u	Qt I
9 G8Clq p	- 71	22226440	2 6SaSu	20- 1- 444	2 S4a6 a	1SR 4	Qt I
9 G8Clq p	- 72	2SS 0	2S 410	2Su041	2S4aS	2RS1	Qt I
9 GlCe dpe	272	- 4642	- 44au	- 41 1	- 44- S	SR0-	Qt I
9 Cr w8	a72	- 1642	- 11au	- Sa- 4	- 12 u	1R14	Qt I
9 Ct t pI	6- 72	u204-	u1a u	u- S20	u2 06	SR60	Qt I
TEl t lCl dpe	1 671	424a-	41- au	4S40a	414 0	2R4-	Qt I
TEl t lCl dpe	1 672	10214	16a01	16u01	10S1a	1RS4	Qt I
Ulr dpe	16471	- - a44	- 4au	- 46S4	- 46u2	2R2	Qt I
Ulr dpe	16472	1- uS1	1- 4S	1- 21-	1- 1u	2R1u	Qt I
HwnC8q dpe	16S71	- 010u	- 0u6-	- uS14	- 06u	1R1u	Qt I
HwnC8q dpe	16S72	1u4- S	1064u	10- - 1	10uS-	- R10	Qt I
h C8e dpe	16 71	uu- 2 6u	1Sa2- 002	112SS244	1S- 1uu62	12R	Qt I
h C8e dpe	16 72	411 6S4	42060u0	42Sa0aS	42SS020	1Ra-	Qt I
& ndpe	11 71	62u6260	0u4 a	uSSS4Su	0- 00 4-	12Ru	Qt I
& ndpe	11 72	a44041	a6 SS2	a6 4a	a u41-	1R24	Qt I
&C.	472	1au0u u	2S4- - u4	2S1 60a	2S1 641	1R u	Qt I
&C.	672	- 0SSa a	- 6406S44	- au4S12	- 64uauu4	1R41	Qt I
&C.	072	u02 1a	u0 aSS	u uaa6	u6a1- u	1RS-	Qt I
KIEt iC.	u- 71	- 24	2ua	- S0	- S0	R01	Qt I
Lpwn	2S671	1a14- u	1uu41S	1u- uu4	1u0a1S	2RS2	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	&I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM-a	T8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	TwiwMt8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1 - u -	1 1ua0	1 1S61	1 2201	SRa4	CI I
Lpwn	2Su71	020u6a	01a2 S	021662	022a20	SR62	CI I
LqiGdpe	671	22a 24	204u S6	206S20	26S1- 42	1SR1a	CI I
y wg. pl dpe	2472	24S2u 1	2- a1uu2	2- 2a1SS	2- 04611	1R6u	CI I
y w. gw. pl p	72	S 11S	SaS 6	4a0S2a	S- 0- 2	1R22	CI I
y C8Er np. be	a471	1SS21	1S0- u	1S1- 0	1S2aa	- R04	CI I
y C8Er np. be	a 71	46 1	40- 4	4a 1	400a	- R24	CI I
y C8Er np. be	a671	64S2	6u00	6S00	64 2	6R24	CI I
y C8Er np. be	a071	2a a	- S42	20 a	2a2S	4Raa	CI I
y C8Er np. be	au71	06a4	6au	0644	0441	R 2	CI I
mpOnEe dpe	1 S71	6 110	6 u2u	64a- 0	6 2a4	SR02	CI I
mpOnEe dpe	1 S72	1au- 2	1a uu	1a- 40	1a ua	1R24	CI I
mqCkp8	6S72	2S1- u	1a020	1a6S4	1au2-	1R41	CI I
NGCI t GCIbI	- 172	1SS- 0	1S646	1S22a	1S- S4	- RS2	CI I
NCiwI dpe	- a72	- S60	- S062a	- S 4 u	- S6614	SR 6	CI I
F GCndpe	1S- 71	62a 1u6	0620- 21	uS- S226	0- 10 0u	12R41	CI I
F GCndpe	1S- 72	- 1 0 06	- 2S1141	- - 641a0	- 24Sa01	- R 6	CI I
DOw. ndpe	4 71	4S6a2 2	S- 0226	1u2 41	406- SS0	12R01	CI I
DOw. ndpe	4 72	142Suu	144aS0	14 1 2	144S4a	1R1u	CI I
Dp8p. dpe	u271	2 6	20	21	24a	12R 4	CI I
Dp8p. dpe	0072	u-	1S-	0S	u6	1aR61	CI I
Dp8p. dpe	0u72	a1	aa	u0	a2	6R62	CI I
Dq8qC.	2u71	1S4- 2a0S	a aa 4	a40u24u	au2- 024	R a	CI I
Dq8vpI	1S071	1a10	21- 4	1a0	2SSa	R u	CI I
Dq8vpI	1Sa71	1a S	1u10	10- -	1u- 4	Ra6	CI I
DOndpe	2- 72	- a 140	- a6606	- uaSuu	- a- 6- 0	1RS2	CI I
DiIC. idpe	u671	60au 1	604062	66 46	60- - 6S	1RSu	CI I
DiIC. idpe	uu71	624u624	6S4646S	au- ua2	6Sa2aa2	2R20	CI I
Db8bI	- 471	- 4a- 1S	- Su- 1	- 1uu4	- S60	SR 0	CI I
cpIr dpe	1 a71	uaa160-	112a1 00	114- 110a	1S 01406	12Ra6	CI I
cpIr dpe	1 a72	4SS012a	414u2u2	412160	4Sa2- 62	1Ru-	CI I
cGw8dpe	2S- 71	10u4	1u S	1660	1060	R2	CI I
cGw8dpe	2S 71	41S1	- a10	4- 4-	412S	R1u	CI I
cq	11u71	46S	66u	- S1	406	- R 6	CI I
cqiw. dpe	4071	0 2a4	0424-	02- 2	0- a 4	2RS4	CI I
5 Iw. dpe	2- u71	1uS4u1	10uuu4	10u0Su	10a- u	SR 4	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwCICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	T wiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	172	4a4u2	4uS44	406- a	4u- uu	2RSS	CI I
Yiiplr dpe	10271	1S- 4	11S	1116-	1Su u	4RS	CI I
Yiiplr dpe	10272	112	Su4	11u	1S	SR	CI I
Yiiplr dpe	10671	u4 -	uS1a	u144	u2S6	2R02	CI I
Yiiplr dpe	10672	1- - 46	1- uS0	14u -	14SS2	R 2	CI I
Yiildpe	ua71	121S2142	146- 146-	14au 6SS	1- aS64S2	11R 1	CI I
Yiildpe	ua72	1- 11a 2	1- 1au22	1- aaa0-	1- 4- a16	- R62	CI I
Zq O	6672	0- a-	04S6-	02a 0	0- 6 1	SR02	CI I
ZdqOC. dpe	aS71	2Saa1	21026	221	21624	2R02	CI I
ZdqOC. dpe	a171	40- 4	4u- 4	4u1u	40a	1R12	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF4S	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAum	2072	40SJ22	460SJ-	46J- J0	46J064	SU4S	ql w
cn&Amony	12171	1hhJ	102h	16hJ	1640	hUSE	ql w
crwenAq	0h72	- 121	- 1- h	- 14S	- 1- 2	SUJ1	ql w
BsrAum	1- h71	1JS6h6	1J0- J6	1J- 0JJ	1J- E4-	1UJ-	ql w
BsrAum	1- 071	- 2216h	- - 6E41	- 21- J2	- 26J2E	2U6J	ql w
BeryPAum	E71	1J02	1E60	1J04	1ES4	2UJ6	ql w
BAumu&G	2SE71	6EEhE- 4	h2- 164-	6- ESh6S	62S6S46	14U4h	ql w
BAumu&G	2SE72	- 22hJJ0	- 2S2104	- 2S4SS0	- 21S6JE	SU41	ql w
BromAne	J171	hEJh	60Jh	6h00	644E	6U44	ql w
RsOmAum	1SJ71	1hS	21-	160	106	1JUJh	ql w
RsOmAum	1S671	444-	- S0h	- E10	- J12	1JUSE	ql w
RsOmAum	11171	1Eh6	1J21	10JJ	1Jhh	4UJS	ql w
RsRqAum	4- 71	11hJ461	124E610	126S461	1222J46	4UhJ	ql w
RsRqAum	4471	1E10021h	1EE24E- 2	2SSJJ42S	1E0- S1JE	2U46	ql w
Rsrbon	1271	- S2220h	- S14- Jh	- Sh- 4- 0	- S- SS- 2	SU6J	ql w
Rsrbon	1272	- 6J- J	- 6262	- 61- 0	- 6412	1US-	ql w
RGRorAne	- h71	2162E- h2	2h2J146S	2000Eh- J	24JE60J-	12U42	ql w
RGRorAne	- h72	2S1E1E	2S62h-	214E0E	2S0010	- U2S	ql w
RGromAum	h272	- 1- 44	- S0J6	- S0JS	- SE0S	1USh	ql w
RobsR&	hE72	- EJS6	- E224	- E1SS	- E- 00	SUE6	ql w
RolI er	6- 72	0J6J0	0JS00	0Jh6S	0J441	SU41	ql w
t ywl rowAum	1h671	hSE6h	h114E	hS6Sh	hSES6	SUh4	ql w
t ywl rowAum	1h672	2SJES	21200	2SJ06	21S14	1USJ	ql w
. rbAum	16471	44SE1	4h02E	4- 2E6	44- 02	2UJS	ql w
. rbAum	16472	1J- - 6	1040h	10h0h	100Eh	2U6h	ql w
HsOoPAum	16S71	4J4Sh	4J- 40	46hS0	400h-	2U26	ql w
HsOoPAum	16S72	222E2	222EE	22h6E	22- J0	SU01	ql w
9 oPmAum	16h71	1S1E020h	0424E- J	E1JS1JS	JE- 41- 1	1hU0S	ql w
9 oPmAum	16h72	422SS42	41J2- 2-	4Shh- J6	41h2hJ4	2USJ	ql w
DnOAum	11h71	024E612	h- - 60E6	641h2- 1	6- - - JJS	1hU14	ql w
DnOAum	11h72	E4JEJ6	E4- 0EJ	E2hE02	E- EhJh	1U2J	ql w
Don	h472	26S1- J2	2hE4114	2hJJS- 2	2hE4hSE	SU26	ql w
Don	h672	46- JhJhE	4660JSJS	4600hEhJ	4661- 2EE	SU44	ql w
Don	h072	11S0JhJ	11S- 64S	11SE6J2	11S0S6S	SU2J	ql w
Kryl &on	J- 71	2E2	- hS	- - 6	- 26	EU2S	ql w
LesO	2S671	2226J6	2- 6S6J	2- 2ShS	2- S26J	2UEJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I ers&or :	aswl sP
Lsb psmI Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psmI Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	1J4212	1E102h	1JJ6E-	1JJ21S	2US1	ql w
LesO	2SJ71	J0- SSS	E1E- 0E	JEEEE6	JE04hJ	2U6S	ql w
LA&GAum	671	2h140hh	2S2hJh-	2- 4144h	22E4S1J	1SUJ1	ql w
5 sgnewAum	2472	2S0E6JS	2SJ- E40	2S4E2E-	2S0SE0-	SUE1	ql w
5 sngsnewe	hh72	206EE2	206h0-	20J0Jh	2004hS	SU42	ql w
5 oPybOenum	E471	2- 161	2- 10J	2- 462	2- 260	SU0-	ql w
5 oPybOenum	Eh71	464-	4626	401J	4662	1USh	ql w
5 oPybOenum	E671	J10J	J42J	Jh- 6	J- J1	2U1E	ql w
5 oPybOenum	E071	- ShS	202h	200h	2JhS	6U14	ql w
5 oPybOenum	EJ71	0400	0400	0h11	04JJ	SU26	ql w
NeoOymAum	1hS71	00E60	J140-	0J4Eh	0E- 12	2UJJ	ql w
NeoOymAum	1hS72	2- - S0	2- 4SS	2- - h1	2- - h-	SU2S	ql w
NAqkeP	6S72	206E4	2601J	26JE6	201S-	1UE2	ql w
8 GowI Goruw	- 172	- 242	- 460	- 210	- - SE	4U16	ql w
8 o&swwAum	- E72	21- 4Eh	2SES- 4	2SEJ- 0	21S0JE	1U1-	ql w
CGoOAum	1S- 71	0212E1h	h202S24	6- hJ4JS	62J114S	1hU4E	ql w
CGoOAum	1S- 72	- 1E1h66	- 1J- ESS	- 1462h2	- 10- ES6	SU06	ql w
pqsnOAum	4h71	46664EE	- 4- 6EJJ	4264- 00	4122621	1hU21	ql w
pqsnOAum	4h72	142- 0J	144hS0	1421h2	14- S12	SUE1	ql w
pe&enAum	J271	2hE	161	1J2	2S1	2hUh-	ql w
pe&enAum	0072	1S-	1S-	00	E4	16UJS	ql w
pe&enAum	0J72	J4	E4	ES	JE	hU6-	ql w
pAqon	2J71	1h- 1J644	1h- 1124h	1h416666	1h- 4JJh2	SUJJ	ql w
pAer	1S071	1E60	21hS	2SE2	2S0S	4Uh-	ql w
pAer	1SE71	1JJ4	10SJ	10E2	10Eh	4UJJ	ql w
poOAum	2- 72	6hJ22h	646JS2	64hSSE	6hSS12	1U1S	ql w
p&ona&Aum	J671	h460Sh	h02S11	hhEES1	hhEh- E	2U26	ql w
p&ona&Aum	JJ71	hS2426h	h210hSh	h112104	h110EJ1	1UJE	ql w
pu&ur	- 471	EE6J4E	1S1- 4S4	1S142E0	1SSJ1J-	SUE0	ql w
i erbAum	1hE71	1S- 2- - 06	061- 6Sh	E1JS64E	ES- E21S	1hUSh	ql w
i erbAum	1hE72	4S12622	4SSES20	- EJS2Jh	4SSS64h	SU44	ql w
i GsPAum	2S- 71	1E2h	2SJ4	2ShE	2S22	4U21	ql w
i GsPAum	2Sh71	4hh1	h1h1	hSh1	4E1J	6Uh4	ql w
i A	11J71	1ESJS	1E- J1	1E0J1	1E414	1UJ1	ql w
i A&snAum	4071	4h- 14	46h26	4h4EJ	4h00E	1U4-	ql w
MrsnAum	2- J71	JEJSJ	E- 2h1	E420h	E244h	2Uh-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	hh011	h4JSJ	h- J04	h40EJ	1U6J	ql w
Y&erbAum	10271	1- 21h	1- J16	1- - 1h	1- 44E	2UJ E	ql w
Y&erbAum	10272	6- Jh	6- Jh	641J	6- E6	SUJ S	ql w
Y&erbAum	10671	E6Eh	E0- 0	1SS46	EJ26	1UEh	ql w
Y&erbAum	10672	1hh01	14J- 1	1h1J0	1h1E6	2U4-	ql w
Y&&Aum	JE71	1- 0614EJ	1S2E114h	12S2J002	12S201- J	14U4-	ql w
Y&&Aum	JE72	1- 16066	1- Sh1Jh	120E6- J	1- SSh- S	1U46	ql w
ZAnq	6672	4- 010	4- S0h	446SS	4- 0EJ	1U0h	ql w
ZAqonAum	ES71	h- - J6	h6JSJ	hhS4-	hhS0E	- U11	ql w
ZAqonAum	E171	124J1	1260-	12Eh6	120S-	1UJJ	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r:	SN1q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	JS6101	J1S- 4S	JSJJS-	JS0- - N	SM12	dDw
qCTb nCh	12171	110J	12- -	1- 10	1242	JN0-	dDw
qpwr Ccd	0J72	1S4J	111-	11- E	1SEE	4M12	dDw
Bspcmb	1- J71	2JS412	2J222E	2J6410	2J- S1E	1M12	dDw
Bspcmb	1- 071	4- EJ- 1	44J626	44NJ- 6	444J64	1N8-	dDw
Br phPmb	E71	1E14	1E4E	1EJ6	1E- E	1M10	dDw
Bcwb mTG	2SE71	01SN10E	011N40E	666N0E0	6E6J1J2	- N0E	dDw
Bcwb mTG	2SE72	- - 2- 41E	- - S4S42	- 1E- 1S0	- 20- J2-	2M1J	dDw
Bpmb cCr	N171	64- J	0120	66- J	60- 2	JN2E	dDw
5 sob cmb	1SN71	N-	01	- -	62	41N04	dDw
5 sob cmb	1S671	- E06	44SE	- 0JE	4S4N	NM1N	dDw
5 sob cmb	11171	E1S	E66	N61	E12	JN0N	dDw
5 sPdcmb	4- 71	E1SJ1	E- 1N1	E- 0- 6	E26J6	1M-	dDw
5 sPdcmb	4471	16- N4JJ	16- S12E	16J2J2J	164S- 0S	SN0E	dDw
5 spenC	1271	- 1EN211	- 2- N6N0	- 26S- 2J	- 2- 24SN	SNEN	dDw
5 spenC	1272	- 0N24	- E11E	- N2N4	- N4SE	1N01	dDw
5 GPmpcCr	- J71	222121N-	26462144	2ES2JS62	2JNEE0E6	1- N2E	dDw
5 GPmpcCr	- J72	2140N-	2102E0	224J04	21NNNJ	2M12	dDw
5 Gpmb cmb	J272	- - N2S	- - 10J	- - - - E	- - 44J	1N8S	dDw
5 nesPT	JE72	2S16N	1E64S	1EE- 4	1EE14	1M-	dDw
5 nDDr p	6- 72	402JJ	46462	46E11	46N06	SNNJ	dDw
&hwDpnwcmb	1J671	0SE40	6E016	0262-	01SEJ	2N8J	dDw
&hwDpnwcmb	1J672	2E222	2NESN	2E1EE	2E11S	SN0S	dDw
Fpecmb	16471	JJJ42	JJNE-	J612S	JJNJ1	SM12	dDw
Fpecmb	16472	226N6	22S02	21NEN	2221E	1NN6	dDw
HsonPCcmb	16S71	JN24J	JE- 2J	JE606	JESN2	1N26	dDw
HsonPCcmb	16S72	206NE	200SE	20602	206ES	SN80	dDw
y nPb cmb	16J71	1S- 2JJ1N	1S10E606	E22N020	EE11- S0	6N81	dDw
y nPb cmb	16J72	42EJ2E6	414601S	41040- 1	42SJJ0E	1NNN	dDw
tCocmb	11J71	04S6E04	04J2E66	66E2E06	01N4- SJ	JNE-	dDw
tCocmb	11J72	E0JE22	EJ0S44	E4NE06	E6S640	1M14	dDw
tpnC	J472	1JN- 16J	1J0NN1-	1J6606-	1J06240	SM14	dDw
tpnC	J672	2N- 06E10	2N44- - S1	200E41S-	2N2S400-	1N20	dDw
tpnC	J072	6N2E20	6NS- 0S	664N20	606S41	1M1J	dDw
KphDTnC	N- 71	- - S	- 41	2N4	- 1N	EM10	dDw
Lr so	2S671	146ESE	1400JJ	1JS4E1	14N- NJ	1N26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 16:- J:14	&sTsUdP usb r:	SN1q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	11N401	12S142	121212	11EE42	1M1J	dDw
Lr so	2SN71	J0S64N	J044- E	J0E0SE	J04E- 2	SM0E	dDw
LdTGmb	671	26- NE- 4	260S21-	2422- 60	2J00101	JM24	dDw
9 sgOr wcmb	2472	- 2E20N	- 1E146	- 2J422	- 2461J	1MIN	dDw
9 sOgsOr wr	JJ72	- NJJ64	- N- - 4J	- 0NJ4N	- N24N6	SMEE4	dDw
9 nPheor Cmb	E471	6J1N	664-	6000	6646	1NE4	dDw
9 nPheor Cmb	EJ71	20JS	2- JS	2JJE	2JJ-	0NM4	dDw
9 nPheor Cmb	E671	- 0JE	- EJ1	- N10	- N42	2M6	dDw
9 nPheor Cmb	E071	16SN	1660	1NSS	16E2	JNM1	dDw
9 nPheor Cmb	EN71	- EJ1	4142	4S60	4SJ-	2MIN	dDw
u r nohb cmb	1JS71	12410S	12JJ10	12J6- 1	12J1S6	SM0J	dDw
u r nohb cmb	1JS72	- NJN6	- 0121	- N110	- 0E41	1NE0	dDw
u cdkr P	6S72	11N6J	110- 2	11N- J	11N11	SMIE	dDw
8 GhwDGhpmw	- 172	1- E2	1J- -	14SS	1442	JM1	dDw
8 nTswwcmb	- E72	2SN- N1	21S- 20	211JJ4	21SSN0	SM06	dDw
. Ghocmb	1S- 71	0414E66	02100JN	6626N- N	0SN6J21	JM0E	dDw
. Ghocmb	1S- 72	- 2S- - 2N	- 24SE24	- 16J12S	- 2S- 124	1MIN	dDw
I dsCocmb	4J71	4N4N614	4000EE1	42EJ4S0	464S601	6MIE	dDw
I dsCocmb	4J72	14J6NS	14- NN-	14- 421	144- 2N	SMM-	dDw
I r P Cmb	N271	E6	NJ	14S	1S0	20M-	dDw
I r P Cmb	0072	16-	1J-	1J0	1JN	- M-	dDw
I r P Cmb	0N72	E0	E4	NN	E-	4NE-	dDw
I dPdnC	2N71	12021NJ-	12E20E- 4	1- 12E6S2	12E2646-	1MIN	dDw
I dPr p	1S071	0SN	1S2J	0E2	N42	1EMS	dDw
I dPr p	1SE71	0JS	02J	02J	0- -	1NE0	dDw
I nocmb	2- 72	- 20S4	- 2- 4J	- - 6- 1	- 2NE-	2NS2	dDw
I TpnCTcmb	N671	16J66E	16N2- N	16J664	166J24	SMIE	dDw
I TpnCTcmb	NN71	1J2JS6-	1J44NS1	1J14SE2	1J20ENJ	1NS2	dDw
I mPmp	- 471	206N60	201S- J	26JS4N	20SEN-	2MIN	dDw
Ar pecmb	1JE71	1S66J46-	1S4N- 44E	E- 2SN6N	1S1J6JE-	0MIN	dDw
Ar pecmb	1JE72	41J6- 66	41S2S06	- E0EJE2	4S0E- 4J	2M12	dDw
AGsPRcmb	2S- 71	1610	10SS	1060	16EJ	4M44	dDw
AGsPRcmb	2SJ71	4SSE	- N06	- N06	- E2S	1NE6	dDw
AdC	11N71	0N6E	NJ2N	N011	N- 6E	JM2E	dDw
AdSCcmb	4071	11SSE0	1126E1	11- 11-	111E60	1M46	dDw
RpsCcmb	2- N71	- 40N2	- J6- 4	- 464N	- JS21	1MI-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Rr CTI sb DP t&:	9 y SU4J	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r:	SN1q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	- N104	- 0J42	- 0422	- 001-	1N30	dDw
YTTr pe omb	10271	1N46-	1E24N	1E2EN	1ESS-	2M46	dDw
YTTr pe omb	10272	ES2S	N6- 1	N4- 6	N6E6	- M42	dDw
YTTr pe omb	10671	1- 24E	1- JE1	1- 104	1- - - N	1M60	dDw
YTTr pe omb	10672	160- E	16466	16NJJ	166N0	1M2S	dDw
YTTpomb	NE71	14J6S2N1	1426E- - 2	12EN2- S4	1- E- 0- S6	6N3-	dDw
YTTpomb	NE72	1410- J1	1- 0J46-	1- 2J11S	1- 02641	- M16	dDw
ZdCd	6672	2- 2JE	22N22	2- 2SE	2- SE0	1N34	dDw
ZqpdnComb	ES71	140JN	1J410	1J2JE	1J14J	2M20	dDw
ZqpdnComb	E171	- 426	- - 42	- 10J	- - 14	- NM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RFen&psmI Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	44y S2	4h- hS4	4h4661	4h26hh	SUh6	ql w
cn&AmonE	12171	2y 4	2 10	2 42	2 1	- U12	ql w
crwenAq	0h72	21S4	21h-	2212	21h0	2Uh1	ql w
BsrAm	1- h71	2- 1h 4	2- hhSh	22 214	2- 106	1Uh0	ql w
BsrAm	1- 071	412- h2	4ShSh-	4Sh04-	4S0016	SUyy	ql w
BerEHAm	y71	12 y	1- S2	12- 2	1204	2Uy1	ql w
BAmu&G	2Sy71	01 1S22	6y241 6	0S46 4	0ShS6 6	1U 2	ql w
BAmu&G	2Sy72	- - 41hy-	- S0 h2h	20 y0h-	- S6yyh0	Uyy	ql w
BromAne	171	60S2	0- 20	0S- h	0S21	4U46	ql w
RsOmAm	1S 71	2h	21-	10h	21h	1yUy	ql w
RsOmAm	1S671	4- 60	4S 4	4Sy2	41 1	- U6	ql w
RsOmAm	11171	2yy	2 h2	- 112	2y 0	4U0	ql w
RsRqAm	4- 71	h- h42	h- yy02	h- h S2	h- 0S60	SU40	ql w
RsRqAm	4471	yS- 010-	y 1 - h	yS21- hS	yS1- 4h2	SU2	ql w
Rsrbon	1271	61y - 6y	6- hh0h1	646661-	6- 4S24h	2U1-	ql w
Rsrbon	1272	0000-	00- 4h	0 142	000h-	SUh1	ql w
RGRorAne	- h71	2- - 02- S6	26hy2- 2h	2ySh6- 4	26- 4S- 26	1SU2	ql w
RGRorAne	- h72	21- 12	210y10	21 4- y	21602-	1U10	ql w
RGromAm	h272	- 21Sy	- 2644	- - 1 y	- 2640	1U6h	ql w
RobsR&	hy72	2y2- 0	2y0y1	2y64	2yhh	SUy0	ql w
RoI I er	6- 72	60y-	66 6S	66 S	60226	SUy2	ql w
t EwI rowAm	1h671	- 41h-	- h2 1	- - 6S	- 44- 1	2U1	ql w
t EwI rowAm	1h672	14h-	142 1	146h	144y2	1U-	ql w
. rbAm	16471	2y - 4	2y660	2 4 y	2y- - S	2UhS	ql w
. rbAm	16472	1110h	11h- h	1166h	114h	2U22	ql w
HsOoRnAm	16S71	- 24yy	- 1 - y	- 210-	- 210S	1US-	ql w
HsOoRnAm	16S72	1h2Sh	1hS6y	1h2 6	1h1 0	SU02	ql w
9 oRnAm	16h71	1S1y64S0	y 6h0 S	1SS111- 4	1SS2444S	1U6h	ql w
9 oRnAm	16h72	4SySyS0	- y h- 42	- h- 664	- 0Sy66	0U6S	ql w
DnOAm	11h71	0261426	02y- ySy	02ShSy0	02h- 400	SU62	ql w
DnOAm	11h72	y4h 40	yh1- 0	S4222	10- h	U14	ql w
Don	h472	2Sy- 04	214 2 6	2Sy- 6- 6	2111 yS	1U4y	ql w
Don	h672	- 01hy01-	- 0- 61y4S	- yS00S6y	- 0 66241	2U0	ql w
Don	h072	S61	y1241-	ySh- 4	yS1y41	1Uy	ql w
KrEI &on	- 71	204	- SS	20S	2 1	hU1	ql w
LesO	2S671	1yhh2	1y4- 00	1y4- 06	1y406S	SU4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	16111-	161404	16S61	161S6y	SU20	ql w
LesO	2S 71	061y0y	0h40- h	04 y6-	0hh226	SU 6	ql w
LA&GAum	671	2h00y01	2h 4 6	2h6hy2S	2h062h-	SU0	ql w
5 sgnewAum	2472	1h4yy66	1h266- 1	1h6- 1Sh	1h46h60	1U1y	ql w
5 sngsnewe	hh72	- 1yS4S	- 2264h	- 24y 0	- 22224	SUy-	ql w
5 oPEbOenum	y471	4h	y4h	6- 6	Sy	1U0y	ql w
5 oPEbOenum	yh71	h01S	h1y-	h- S1	h4S1	hUSh	ql w
5 oPEbOenum	y671	0S- h	0120	601S	6yh	- U1h	ql w
5 oPEbOenum	y071	- 142	- S42	- 1 4	- 12-	2U-	ql w
5 oPEbOenum	y 71	y112	y4 0	ySh-	y210	2Uhh	ql w
NeoOEmAum	1hS71	h4hy	h6164	hh h6	hhh- y	1U4y	ql w
NeoOEmAum	1hS72	1hy6S	16- S0	16- S-	161yS	1U2-	ql w
NAqkeP	6S72	2Sy 6	2S hh	2S- 4	2S0- S	1U62	ql w
8GowI Goruw	- 172	40 4	4 1	40- 4	400y	SU	ql w
8os&swwAum	- y72	- SS026	- S0 - 6	- S42 S	- S42 1	1U10	ql w
CGoOAum	1S- 71	02yhy26	0Sy- y61	0SyS2 S	016SSh6	1U64	ql w
CGoOAum	1S- 72	- 10hyh4	- S40 - 4	201y- 11	2y 1S- -	0UyS	ql w
pqsnOAum	4h71	40S- y02	4h 210y	40ShS- y	466- 0- S	1Uh1	ql w
pqsnOAum	4h72	141022	1- h1y2	11yh- y	1- 21h1	U6-	ql w
pefenAum	271	116	11y	1Sy	11h	4Uh4	ql w
pefenAum	0072	h0	S	h0	64	2SUyS	ql w
pefenAum	0 72	6S	0-	06	0S	12U21	ql w
pAAqon	2 71	1- Sy14yh	1- S06y 6	12y6 620	1- S4h0S-	SUh1	ql w
pAPer	1S071	22y2	2hSy	22hy	2- h-	hU00	ql w
pAPer	1Sy71	22y2	2- 2h	24Sy	2- 42	2Uh0	ql w
poOAum	2- 72	460hy	401 6	4044h	401- S	SU0-	ql w
p&on&Aum	671	10Sh1	166142	16 S40	16 2- 6	1US	ql w
p&on&Aum	71	1h40216	1h60- Sh	1h261Sh	1h46 0h	1U-	ql w
pufPur	- 471	- SSS1S	- S- - 6	- Sh4h2	- S2y4y	SUy1	ql w
i erbAum	1hy71	1Sh1y-	1S1- - 6S1	1SSy1- h2	1S24 114	2US	ql w
i erbAum	1hy72	- y 6y46	- 6 0	- 40h6y4	- 00010-	0USy	ql w
i GsPAum	2S- 71	2S2h	22 4	212h	214h	6USS0	ql w
i GsPAum	2Sh71	4yhy	4 h1	hSS1	4y- 0	1Uh0	ql w
i An	11 71	44S1	44- 4	4126	4- 2S	- Uy2	ql w
i A&snAum	4071	60- 0h	6 Sy6	6hh42	60SS4	1Uy0	ql w
MrsnAum	2- 71	4 260	4y2hh	hSyh-	4y4y2	2U04	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	h226y	h241y	h100S	h21h2	SU6h	ql w
Y&erbAum	10271	4h	hyh	h61	660	1U0y	ql w
Y&erbAum	10272	- 010	4Sh6	4- 2-	4S- 2	0Uh-	ql w
Y&erbAum	10671	6y44	6yh2	0S- h	6y00	SU0-	ql w
Y&erbAum	10672	1- 46-	12 6	12S61	120y0	hUhS	ql w
Y&&Aum	y71	1- - 6 4- 1	1- 61 146	1- - - h- 2-	1- 44S6- -	1U1h	ql w
Y&&Aum	y72	12 2Sy	12- 1yy	1Sy6- 4S	12Shh16	U1	ql w
ZAnq	6672	h116h	h1 -	h1102	h1- y2	SU0h	ql w
ZAqonAum	yS71	140hS	1h6- 4	14h16	14y60	- Uy4	ql w
ZAqonAum	y171	- 406	- 426	- SSy	- - S-	0U06	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
LwrJDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqil
d8be qFqpe	20:2	2S7u070	1yu077y	1y 76S6	1yy y04	U1S	Qil
dFiqe . Fh	121:1	27y0066	26026S1	264S4 4	26 6y 4	1U42	Qil
dIl pFqO	07:2	6771u	64627	62676	64260	2U2u	Qil
Bwlqpe	1 7:1	2uu2646	2y62600	2yy1u26	2y47016	1Uy2	Qil
Bwlqpe	1 0:1	7S 0u70	7106266	7Sy760	71S 266	1U6	Qil
Bplh8qpe	y:1	6S7 2y	62112y	61y116	6171y1	1U4S	Qil
Bqie biE	2Sy:1	61 6606	62yu1	6 216S6	62721 u	1U61	Qil
Bqie biE	2Sy:2	2ySy600	2u7u27S	2u10460	2u610yu	1U61	Qil
Bl. e qFp	u1:1	4S 4	4S60	y 4	4S12	1U0	Qil
3 wne qpe	1Su:1	7Suu1	72462	7 u06	724S6	2Uu6	Qil
3 wne qpe	1S6:1	0427S	0474	0 u14	042S	SU4y	Qil
3 wne qpe	111:1	61Sy27	6270 y	6210 S	61y467	1U24	Qil
3 w8Qqpe	4 :1	007464	uS0746	uS0y67	0y6yy2	SU4y	Qil
3 w8Qqpe	44:1	7uy404S2	6SS2002	612112u6	6SS621 0	1Uuy	Qil
3 wlr . F	12:1	26 y716	20S 160	2uSy647	201044	U16	Qil
3 wlr . F	12:2	0624	07u2	6014	0 S6	1Uu	Qil
3 E8 lqFp	7:1	16y 10	16ySu71	164 4y6	1607u4S	1U60	Qil
3 E8 lqFp	7:2	1116	1S421	yu74	1S40y	6U20	Qil
3 El. e qpe	72:2	0S6S12	6y076S	602174	6y1ySy	2U77	Qil
3 . r w8	7y:2	1262Su4	124u10u	12S02uy	12 y1u4	2U S	Qil
3 . t t pl	6 :2	1S074124	1S00SySy	1S7 S676	1S6u722y	1U26	Qil
Thl t l. l qpe	176:1	027	07S	67u	011	6U66	Qil
Thl t l. l qpe	176:2	2	SS	20	10	4U7y	Qil
Glr qpe	164:1	2SS	17u	1u	1u1	11U62	Qil
Glr qpe	164:2	6	1SS	0S	0u	27U1	Qil
Hwn. 8qFqpe	16S:1	u	0y2	042	0uy	7Uu2	Qil
Hwn. 8qFqpe	16S:2	44	4 0	400	472	4U04	Qil
K. 8e qpe	167:1	uy2S02u	y 621y0	y2u4746	y1uy170	2U76	Qil
K. 8e qpe	167:2	y44224	y 0S2S	u6y7S0	y16y10	1US7	Qil
8Fnqpe	117:1	6 y4u	67y6y72	6 71406	642y S4	2U26	Qil
8Fnqpe	117:2	u70 60	u62uyS	u S uS	u7S212	2US7	Qil
8. F	74:2	u266S0u	u1uy410	0y1y24S	u124y12	2U24	Qil
8. F	76:2	17SSyy27	1712SS126	144u6y 64	14u022y14	2U20	Qil
8. F	70:2	ySSu2S	u774S4	74u6u0	06u S4	7USu	Qil
glht i. F	u :1	21y	27y	240	242	uU7	Qil
Lpwn	2S6:1	124Su6 6	12772064	1201u712	1277yy01	1U2	Qil

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
Lpwn	2S0:1	1Su 04 y	1Syu144S	11126Suy	1Syu1676	1U 1	Ol
Lpwn	2Su:1	4yy2y 21	71 06046	7100 6 6	71S26760	1UyS	Ol
LqiEdpe	6:1	2 S2y76	22uu70u	2 17u2S	2 S2471	SU7y	Ol
5 wkFpl dpe	24:2	2u 767u0	2uS2yS11	202 1S04	20u02224	2USu	Ol
5 wFkwFpl p	77:2	uS4762	0u7671	6y u6S	061 7u	1U70	Ol
5 . 8hr npFbe	y4:1	y72 77u	y6yS26y	y76u06u	y7y41yu	SUyS	Ol
5 . 8hr npFbe	y7:1	1 u4112S	141u1721	1422 17S	14Su1y S	1U4y	Ol
5 . 8hr npFbe	y6:1	14y441y7	17027614	17767uy6	17411yS1	2U6u	Ol
5 . 8hr npFbe	y0:1	u7u4210	uu61 uy	u040702	u0 1S7y	1U6S	Ol
5 . 8hr npFbe	yu:1	227S10u2	2 S2Su46	22u02S 4	220yu221	1U10	Ol
mp. nhe dpe	17S:1	220	2S	20	20	10US0	Ol
mp. nhe dpe	17S:2	7S	S	7	44	2uUy	Ol
mqOvp8	6S:2	u440	y12u	S122	7uyy	1U4y	Ol
NE. l t E. lbl	1:2	1y6S7	1yS1	1uu46	1y177	2USu	Ol
N. iwl l dpe	y:2	u66772u	u02u167	u 6 26y	u7u7674	2U20	Ol
9 E. ndpe	1S :1	612S 17	610u7Su	621027u	6102S20	SU0y	Ol
9 E. ndpe	1S :2	2u16y74	2uSy77S	20 S477	20u767	1U02	Ol
DOwFndpe	47:1	4SS0066	4S0y 2y	416y1 0	4Su7411	1Uyu	Ol
DOwFndpe	47:2	1 1441	1 1 07	12uS12	1 S206	1U71	Ol
Dp8pFdpe	u2:1	44yS	467SS	466S0	46SS	2USu	Ol
Dp8pFdpe	00:2	1 7	1 7S	1 70	1 7	SU27	Ol
Dp8pFdpe	0u:2	4600	44y2	44S6	4727	US6	Ol
Dqq8Q F	2u:1	207SSyS4	200u 4u	2uS0y7u	200u0y47	1US4	Ol
Dq8pl	1S0:1	77447	77S 1	427201	0u7u2	1U2S	Ol
Dq8pl	1Sy:1	10 u17	1y6464	266026	212 7	1U71	Ol
D. ndpe	2 :2	7SuSy2y0	4y6u0721	4u42y 7	4y642S71	2U4S	Ol
Dil. Fidpe	u6:1	1uy64744	1y1740 2	1y41Syu	1y10607	1U10	Ol
Dil. Fidpe	uu:1	16 202y4y	166774u62	16 4yu116	164441y06	1U11	Ol
Db8Vl	4:1	74u 76	742y6y	744 47	74722	SU71	Ol
cplr dpe	17y:1	y2u7 1S	y7uSS7	y6y74 S	y72S264	2U22	Ol
cplr dpe	17y:2	ySS S2	u64S0u	60 6 0	u12602	U1y	Ol
cEw8dpe	2S :1	S 1410	S26yuy	S276S	S2uSS	SU1S	Ol
cEw8dpe	2S7:1	01414 S	01 67S6	0264740	01uSu2u	1US1	Ol
cqF	11u:1	2S0u6 0	224u471	21u 02y	210S20	Uy7	Ol
cqwFdpe	40:1	60yS04	07u1y0	007026	0 0667	1UUu	Ol
RlwFdpe	2 u:1	1S60 1y7	1Sy 70u6	11 677S0	1Syy14y6	U1u	Ol

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Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
- wFwndpe	71:2	740070	74 S7y	720217	7 y 44	2U8SS	Qt l
Yiiplr dpe	102:1	1y2	2SS	210	2S	6U2u	Qt l
Yiiplr dpe	102:2	110	0u	1SS	yu	1yUuu	Qt l
Yiiplr dpe	106:1	14216	1 uy1	14S41	14S7S	1U16	Qt l
Yiiplr dpe	106:2	17001	17u67	17001	17uS2	SU 7	Qt l
Yiildpe	uy:1	11u SS7y	12S6 S64	1160204	11u772uy	1U66	Qt l
Yiildpe	uy:2	1160u10	1162077	11420u6	11700u6	1U14	Qt l
ZqFO	66:2	1272u14	12 1u71	12S4y S	122yu67	1Uy7	Qt l
ZqlQ Fdpe	yS:1	4442u07	46u01 0	4701666	4760226	2U6u	Qt l
ZqlQ Fdpe	y1:1	y6 uu7	yy 7S0	yu0yyu	yu10y0	1U6S	Qt l

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LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8 spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
qPmb c omb	20 2	101	10y	16S	10S	-U--	dDw
q. Tdb C. h	121 1	1SN7	11-N	17y2	1211	17U2N	dDw
qpwr . cd	0- 2	4	-	4	4	17U72	dDw
Bspomb	17- 1	22-	2SN	210	210	7UN-	dDw
Bspomb	170 1	742	4SS	-2-	422	22U1N	dDw
Br phPmb	y 1	12y	11S	122	12S	0Uy7	dDw
Bcvb mTE	2Sy 1	6y17-1-	662SN1-	66yS27N	6041-27	2U20	dDw
Bcvb mTE	2Sy 2	71NNN2y	71NN10y	72N27NS	721y0y6	1U6N	dDw
BpCb c r	N1 1	76-y	4142	4S74	7y4-	6U47	dDw
3 sob omb	1SN 1	7N	N	17	1y	N1U14	dDw
3 sob omb	1S6 1	7--y	7426	7726	7470	7U41	dDw
3 sob omb	111 1	4-y	4N7	424	4--	6U S	dDw
3 sPdomb	47 1	--S	4y6	4-y	-S2	yU14	dDw
3 sPdomb	44 1	76N46	7-171	74414	7-464	7U2	dDw
3 speC.	12 1	274--44	277S6Sy	2714220	277S126	SU60	dDw
3 speC.	12 2	200S2	2006N	2NS1y	20N7S	SU6S	dDw
3 EPOpc r	7- 1	14142Ny	17-S100	17-1N4y	17021S-	2U66	dDw
3 EPOpc r	7- 2	N76y	NNN6	N761	N-7y	7U2	dDw
3 EpCb omb	-2 2	1S4S	11S7	1170	1Sy7	4U4y	dDw
3 CesFT	-y 2	1S7	-7	6S	02	70Uy	dDw
3 CDDr p	67 2	10-7	1077	1660	101N	2U64	dDw
&hwDpOwomb	1-6 1	N	S	S	7	107U21	dDw
&hwDpOwomb	1-6 2	S	S	7	1	107U21	dDw
Fpeomb	164 1	60	77	-S	-S	77U74	dDw
Fpeomb	164 2	10	10	10	10	SUSS	dDw
GsoCPomb	16S 1	N7	1SN	N7	y2	1-U04	dDw
GsoCPomb	16S 2	1S0	110	y7	1S6	11USy	dDw
HCPb omb	16- 1	yN72-10	y21y--0	y4707NN	y4y64N0	7U20	dDw
HCPb omb	16- 2	4S000y2	4SyN4S0	41S1476	4Sy2-4-	SU71	dDw
t. oomb	11- 1	0S41SNS	6NS4260	6NSySN4	6NN4N1S	1Uy0	dDw
t. oomb	11- 2	y2011-	y7-4N2	y7Sy12	y7110S	SU4-	dDw
tpC.	-4 2	60N	-44	044	6-6	1-U7	dDw
tpC.	-6 2	N-0-	02-2	00y1	0N07	NU4-	dDw
tpC.	-0 2	7S6	261	2-S	202	1SUNS	dDw
KphDTC.	N7 1	2-2	2S2	2--	270	12U1	dDw
Lr so	2S6 1	1N11	1N74	164-	1067	-UN6	dDw

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LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tusb r:J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r:qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdPP:usb r:J	SN-3 3 BFUb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Lr so	2S0 1	10-6	1-02	1611	1646	-UN0	dDw
Lr so	2SN 1	N10y	0462	01yS	061S	6U01	dDw
LdEcmb	6 1	2-147yS	276N2-y	27y672-	2426724	7U2S	dDw
5 sg. r wcmb	24 2	ySN	Ny2	y0-	y2-	4U06	dDw
5 s. gs. r wr	- - 2	2S7	1yS	21S	2S1	-US6	dDw
5 CPheor . mb	y4 1	1777	122-	112-	122N	NU4y	dDw
5 CPheor . mb	y- 1	1y-S	1010	1-SS	1022	17US0	dDw
5 CPheor . mb	y6 1	222-	1y74	100-	1y0N	11U-4	dDw
5 CPheor . mb	y0 1	122-	1Sy2	y-N	1Sy2	12U21	dDw
5 CPheor . mb	yN 1	7726	2610	2474	20y2	16UN0	dDw
u r Cohb cmb	1-S 1	17	17	17	17	SUSS	dDw
u r Cohb cmb	1-S 2	7	S	7	2	N6U6S	dDw
u cdkr P	6S 2	6S	-7	y0	0S	77U74	dDw
8 ECwDECpmw	71 2	1N7	142	1-N	161	17US2	dDw
8 CTswwcmb	7y 2	114S-	111S-	12S40	11-1y	4U1N	dDw
9 ECocmb	1S7 1	0S70S-S	6676yN0	664y22-	6004421	7U76	dDw
9 ECocmb	1S7 2	72NN0y-	7S04N27	71421S7	716N-04	7U4-	dDw
I ds. ocmb	4- 1	4-1y66N	41N-127	4716446	474S412	7UNN	dDw
I ds. ocmb	4- 2	17-N-2	1706-6	17NSN7	1701y0	SUN6	dDw
I r PP. cmb	N2 1	4	24	7	6	266U26	dDw
I r PP. cmb	00 2	S	S	7	1	107U21	dDw
I r PP. cmb	0N 2	11	0	y	y	22U22	dDw
I dPdC.	2N 1	1y7101	1N76S6	1N2y04	1N6-N4	7US6	dDw
I dPr p	1S0 1	70-	7y2	7SN	7-N	12U71	dDw
I dPr p	1Sy 1	742	242	2-N	2N1	1yU1S	dDw
I Cocmb	27 2	7704S	72021	777N1	772NS	1U-	dDw
I TpC. Tcmb	N6 1	2SN4	1NSy	1-10	1NS7	1-U02	dDw
I TpC. Tcmb	NN 1	14S-4	11SSy	11216	12Sy7	14US0	dDw
I mPPmp	74 1	2NyN-6	2N1y-6	2N4710	2N-706	1U42	dDw
Ar pecmb	1-y 1	yN26746	y-S7y-1	y4S722-	y-00N41	2U71	dDw
Ar pecmb	1-y 2	7y6y-y2	7yS1724	4S2S741	7y670-2	1U-1	dDw
AEsPPcmb	2S7 1	1742	1242	112-	1276	NU00	dDw
AEsPPcmb	2S- 1	7210	7S2-	2ySy	7S-S	-U1S	dDw
Ac	11N 1	1242	1277	1S-S	110-	yU22	dDw
AcTs. cmb	40 1	4-S	410	-SS	4-6	yU21	dDw
Rps. cmb	27N 1	N0-	042	4y2	0S7	20U6y	dDw

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Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tusb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8spsb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l 7	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Vs. sodmb	- 1 2	27	2S	20	27	14U2y	dDw
YTTr pedmb	102 1	- S	2-	60	40	44U41	dDw
YTTr pedmb	102 2	11	11	22	1-	47U7S	dDw
YTTr pedmb	106 1	11SS	1177	1177	1122	1U01	dDw
YTTr pedmb	106 2	1S666	1S67N	1SN20	1S01S	SUy-	dDw
YTTpdmb	Ny 1	126SNyNy	12SNS646	1227S041	127S60y2	2U21	dDw
YTTpdmb	Ny 2	122yNS-	122- 2- 2	122NS41	12206yy	SU1y	dDw
Zc d	66 2	1- S	1yS	210	1N6	1NUSN	dDw
ZqpdC. dmb	yS 1	y77	62-	N- S	NS7	1yUN0	dDw
ZqpdC. dmb	y1 1	1- N	1SN	1- N	142	2SU7N	dDw

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Prep Standard - Chemical Standard Summary

Order ID : O3446

Test : Metals CLP MS FULL

Prepbatch ID : PB153920,

Sequence ID/Qc Batch ID: LB126407,

Standard ID :
MP74931,MP75788,MP75815,MP75816,MP75962,MP76115,MP76116,MP76125,MP76127,MP76128,MP76132,MP76135,MP76136,MP76208,MP76237,MP76238,MP76239,MP76240,MP76241,MP76242,MP76243,MP76244,MP76245,

Chemical ID :
M4408,M4657,M4707,M4718,M4768,M4825,M4874,M4875,M4876,M4877,M4880,M4881,M4882,M4883,M4884,M4885,M4886,M4888,M4889,M4891,M5019,M5020,M5101,M5184,M5192,M5193,M5200,M5201,M5224,M5227,M5229,M5230,M5231,M5244,M5245,M5289,M5293,M5298,M5301,M5387,M5448,M5452,M5468,M5469,M5473,M5521,M5555,M5575,M5587,M5597,M5599,M5603,M5606,W2606,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
W45	514:HCL	MP74325	04/53/9092	03/07/9092	Aa-aTet:r akI a	s onc	s onc	Nin:Hc 04/53/9092

FROM 5. 00m00000l :of:+ 9W0W6:. 00m00000l :of:M. 4. 9::=:Fina :Quantity19000m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5599	bCPMA:Cj LbN: NLj s JwA0/bCN/CCN8	MP7. 7SS	0W59/9092	0W20/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 0W52/9092

FROM 9. m00000l :of:M. . . . :6:439. m00000l :of:+ 9W0W6:. 0m00000l :of:M. . 7. ::=:Fina :Quantity1. 000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W4	C) s CrnCAA:APbJ B	MP7. S5.	0W59/9092	0W20/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 0W52/9092

FROM

0m9. 000I :of:M475S:6:0m9. 000I :of:M47WS:6:0m9. 000I :of:M4S9. :6:0m9. 000I :of:M4S74:6:0m9. 000I :of:M4S7W6:0m9. 000I : of:M4S77:6:0m9. 000I :of:M4SS5:6:0m9. 000I :of:M4SS. :6:0m9. 000I :of:M4SS3:6:0m9. 000I :of:M. 993:6:0m9. 000I :of:M. 920:6: 0m9. 000I :of:M. 472:6:0m0000I :of:M4W 7:6:0m0000I :of:M. 994:6:0m0000I :of:M. 9S3:6:0m0000I :of:M. . 95:6:5m9. 000I : of:M4707:6:5m9. 000I :of:M4SS2:6:5m9. 000I :of:M4SSW6:5m9. 000I :of:M4SSS:6:5m9. 000I :of:M4S35:6:5m9. 000I :of:M. 539:6: 59m0000I :of:M. 532:6:59m0000I :of:M. 900:6:59m0000I :of:M. 905:6:59m0000I :of:M. 4WS:6:5. 5m9. 000I :of:+ 9W0W6: 9m0000I :of:M4SS4:6:9m0000I :of:M. 2S7:6:9m0000I :of:M. . . . :6:. m00000I :of:M. 93S:6:. m00000I :of:M. . 7. :6:Wm9. 000I : of:M4S7. :6:Wm9. 000I :of:M4SS0:6:Wm9. 000I :of:M4SS9::=:Fina :Quantity19. 0m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
S70	bCPMA:APbJ B:A) LmN	MP7. S5W	0W59/9092	0W20/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 0W52/9092

FROM

0m4. 000I :of:M4SS2:6:. m00000I :of:M440S:6:. m00000I :of:M. 505:6:23m. 000I :of:MP7. 7SS::=:Fina :Quantity1. 0m000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5V3	515Hs) 2	MP7. 3V9	0W92/9092	59/50/9092	j EKc-c_:bkaaO	s onc	s onc	Aa-aTet:r akI a 0W92/9092

FROM 59. 0r00000I :of:M. . S7:6:59. 0r00000I :of:+ 9W0W:=:Fina :Quantity19. 00r000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5599	bCPMA:Cj LbN: NLj s JwA0/bCN/CCN8	MP7W55.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 9. r00000I :of:M. W02:6:439. r00000I :of:+ 9W0W6:. 0r00000I :of:M. . 37::=:Fina :Quantity1. 000r000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9309	AS:bCPMA	MP7W55W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 5m00000l :of:M. 9S3:6:9m0000l :of:M. 905:6:9m0000l :of:M. 93S:6:. m00000l :of:M. 532:6:. m00000l :of:M. 900:6:. m00000l : of:M. 4WS:6:73m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. S	bCVwAFj M8	MP7W59.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 9m00000l :of:M. 932:6:3Sm00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5549	bCAj :bCPMA	MP7W597	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:30m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5542	bCAj N:bCPMA	MP7W59S	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:50m00000l :of:M. 94. :6:S0m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W9	MG:50PPM:F) R:KUs B	MP7W529	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 0n05000l :of:M. 4WS:6:3n03000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2S34	KUs B:900PPN	MP7W52.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 9n00000l :of:M. 925:6:9n00000l :of:MP7W529:6:3Wn00000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2302	bAA:2PPM	MP7W52W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM . m00000l :of:M. . 37:6:7. m00000l :of:M. 44S:6:570m00000l :of:MP7W55. ::=:Fina :Quantity19. 0m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5457	j A:50PPM	MP7W90S	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/07/9092

FROM 0m50000l :of:M4S74:6:3m00000l :of:MP7W55. ::=:Fina :Quantity150m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2347	A7wAFj M,W090,900m68	MP7W027	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 5m00000l :of:M4S7. :6:5m00000l :of:M4SS4:6:5m00000l :of:M4SSW6:5m00000l :of:M. 993:6:5m00000l :of:M. 920:6:5m00000l : of:M. 9S3:6:50m00000l :of:M4SSS:6:50m00000l :of:M. 539:6:50m00000l :of:M. . 33:6:9m00000l :of:M. 053:6:9m00000l :of: M. 090:6:9m0000l :of:M. 472:6:4m00000l :of:M4SS5:6:4m00000l :of:M. 2S7:6:4m00000l :of:M. 905:6:4m00000l :of:M. 93S:6: . m00000l :of:M. W0W6:. 0m00000l :of:M. 205:6:S97m00000l :of:+ 9W0W6:3m00000l :of:M4S35:6:3m00000l :of:M. 5S4:6: 3m00000l :of:M. . 95:6:3m00000l :of:M. 532:6:3m00000l :of:M. 900:6:3m00000l :of:M. 4W5::=:Fina :Quantity15000m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
234S	AWAFj M,W090,900m68	MP7W02S	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5m00000l :of:M. . 33:6:4Sm0000l :of:+ 9W0W6:. 0m00000l :of:MP7W027::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2343	A. wAFj M,W090,900n68	MP7W023	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5n00000l :of:M. . 33:6:72m0000l :of:+ 9W0W6:9. n00000l :of:MP7W027::=:Fina :Quantity1500n000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 4	A4wAFj M,W090,900n68	MP7W040	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5n00000l :of:M. . 33:6:SW00000l :of:+ 9W0W6:59m0000l :of:MP7W027::=:Fina :Quantity1500n000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 5	A2wAFj M,:W090,900n68	MP7W045	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5n00000I :of:M. . 33:6:SSm0000I :of:+ 9W0W6:50n00000I :of:MP7W02S::=:Fina :Quantity1500n000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. .	A9C) s CwAFj M,W090,900n68	MP7W049	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0n0. 000I :of:M47W6:6:0n0. 000I :of:M4S9. :6:0n0. 000I :of:M4S74:6:0n0. 000I :of:M4S7W6:0n0. 000I :of:M4S77:6:0n0. 000I :
of:M4SS5:6:0n0. 000I :of:M4SS. :6:0n0. 000I :of:M4SS3:6:0n0. 000I :of:M. 5S4:6:0n0. 000I :of:M. 993:6:0n0. 000I :of:M. 920:6:
0n0. 000I :of:M. 4W3:6:0n50000I :of:M4W 7:6:0n50000I :of:M4S35:6:0n50000I :of:M. 994:6:0n50000I :of:M. 9S3:6:0n50000I :
of:M. . 95:6:0n9. 000I :of:M4SS2:6:0n9. 000I :of:M4SSW6:0n9. 000I :of:M4SSS:6:0n9. 000I :of:M. 539:6:0n9. 000I :of:M. 997:6:
0n9. 000I :of:M. 93S:6:0m0000I :of:M4SS4:6:0m0000I :of:M. 2S7:6:5n9. 000I :of:M4S7. :6:5n9. 000I :of:M4SS0:6:5n9. 000I :
of:M4SS9:6:9m0000I :of:M. 532:6:9m0000I :of:M. 900:6:9m0000I :of:M. 905:6:9m0000I :of:M. 4W6:6:9m0000I :of:M. W0W6:
99. n5. 000I :of:+ 9W0W6:. n00000I :of:M. . 33::=:Fina :Quantity19. 0n000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. W	A9wAFj M,W090,900m68	MP7W942	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:3Sm00000I :of:+ 9W0W6:0m0000I :of:MP7W949::=:Fina :Quantity1500m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 7	A5wAFj M,W090,900m68	MP7W944	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:SSm0000I :of:+ 9W0W6:50m00000I :of:MP7W942::=:Fina :Quantity1500m000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W5	CCV	MP7W04.	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000l :of:M4S7. :6:0m0000l :of:M4SS4:6:0m0000l :of:M4SSW6:0m0000l :of:M. 053:6:0m0000l :of:M. 993:6:0m0000l : of:M. 920:6:5m00000l :of:M. 090:6:50m00000l :of:M. . 33:6:59m4. 000l :of:M. 93S:6:59m0000l :of:M. 4W3:6:9m00000l :of: M4SS5:6:94m3. 000l :of:M. 532:6:94m3. 000l :of:M. 900:6:94m3. 000l :of:M. 905:6:94m3. 000l :of:M. 4WS:6:9. m00000l :of: M. 205:6:4m0000l :of:M4S35:6:4m0000l :of:M. 5S4:6:4m0000l :of:M. . 95:6:4m3. 000l :of:M. 9S3:6:. m00000l :of:M. 539:6: . m00000l :of:M. W0W6:S0. m60000l :of:+ 9W0W:=:Fina :Quantity15000m000::l

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	P2-MEB683701	08/21/2023	09/25/2020 / jaswal	08/27/2019 / BIN	M4408

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	P2-V685591	12/05/2023	11/21/2020 / bin	08/21/2020 / bin	M4707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Manganese, Mn, 500 ml, 1000 PPM	070620	07/06/2023	01/14/2021 / bin	01/12/2021 / bin	M4718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Boron (B)	031921	03/19/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	S2-MEB701384	01/20/2025	03/14/2022 / bin	03/14/2022 / bin	M5101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5229

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	073021	07/30/2024	05/08/2023 / jaswal	07/05/2022 / bin	M5230

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	R2-MEB695520	11/26/2023	11/27/2022 / jaswal	07/06/2022 / jaswal	M5231

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	05/01/2022 / jaswal	04/01/2022 / jaswal	M5301

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	S2-MEB709511	03/06/2024	03/07/2023 / jaswal	04/01/2022 / jaswal	M5448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	09/07/2023	03/26/2023 / Al-Terek	02/24/2022 / Al-Terek	M5452

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	11/26/2023	05/24/2023 / Al-Terek	02/24/2022 / Al-Terek	M5555

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/09/2023	06/09/2023 / Al-Terek	01/13/2023 / Al-Terek	M5575

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

INORGANIC VENTURES
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Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	S2-MEB701384
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.01 ± 0.26 µg/mL**	**Chromium, Cr**	**200.0 ± 1.0 µg/mL**
Cobalt, Co	**500.0 ± 2.3 µg/mL**	**Copper, Cu**	**250.2 ± 1.0 µg/mL**
Iron, Fe	**1 000 ± 4 µg/mL**	**Manganese, Mn**	**500.2 ± 2.0 µg/mL**
Nickel, Ni	**500.1 ± 2.3 µg/mL**	**Silver, Ag**	**50.01 ± 0.22 µg/mL**
Vanadium, V	**500.0 ± 2.2 µg/mL**	**Zinc, Zn**	**500.1 ± 2.1 µg/mL**

Density: 1.069 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \Sigma(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)\,(u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 20, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	P2-MEB683701
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**100.0 ± 0.7 µg/mL**	**Arsenic, As**	**40.00 ± 0.21 µg/mL**
Cadmium, Cd	**49.98 ± 0.22 µg/mL**	**Lead, Pb**	**20.00 ± 0.09 µg/mL**
Selenium, Se	**10.00 ± 0.06 µg/mL**	**Thallium, Tl**	**50.02 ± 0.26 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 21, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 21, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

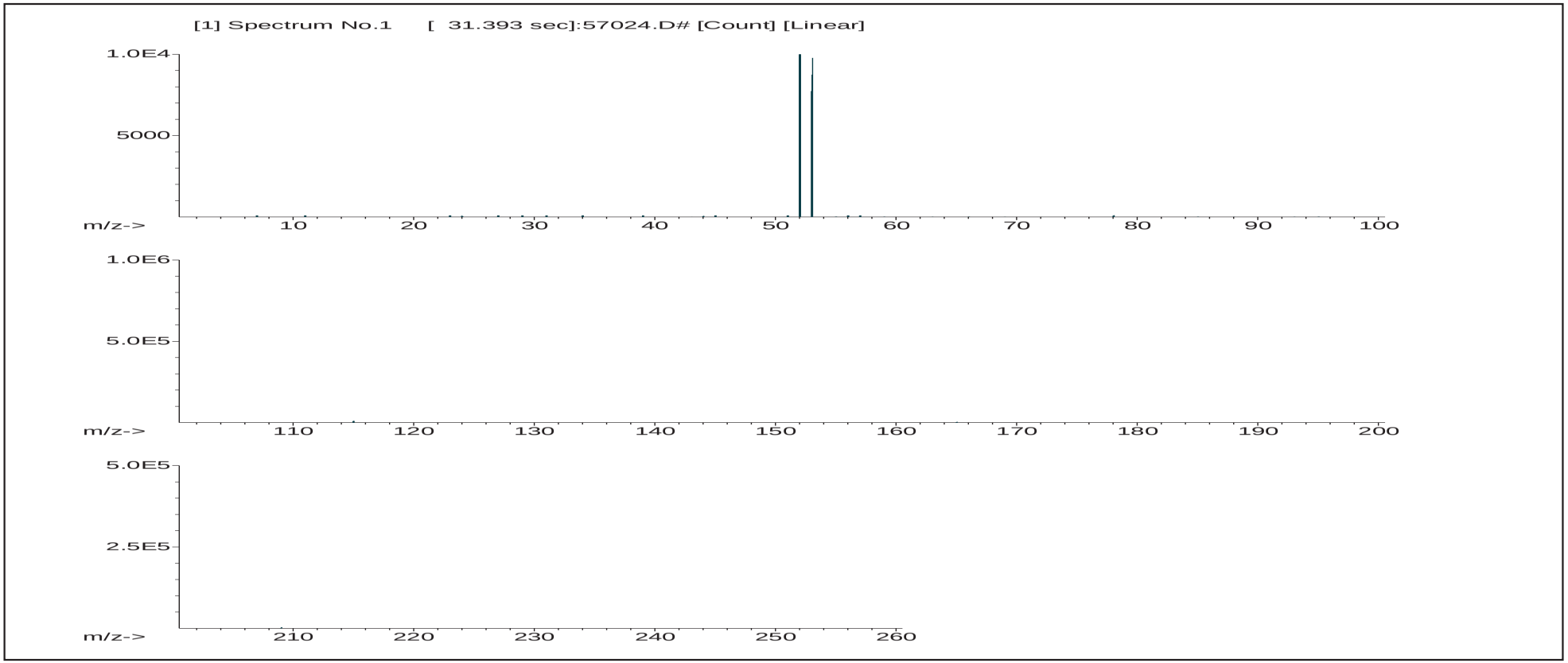
597

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58024**	19410105	Nitric Acid
Lot Number:	**082620**		
Description:	**Chromium (Cr)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	082623		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Chromium (III) nitrate nonahydrate (Cr)	58124	121619	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



598

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	P2-V685591
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9939%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **1002 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000273	M	Eu	<	0.000118	O	Na		0.010915	M	Se	<	0.001167	M	Zn	<	0.006080
M	Al		0.006218	M	Fe		0.023106	M	Nb	<	0.001479	O	Si		0.036363	M	Zr	<	0.003181
M	As	<	0.000540	M	Ga	<	0.009451	M	Nd	<	0.000118	M	Sm	<	0.000118				
M	Au	<	0.000191	M	Gd	<	0.000118	M	Ni	<	0.003169	M	Sn	<	0.000733				
M	B	<	0.002950	M	Ge	<	0.000434	M	Os	<	0.000150	M	Sr		0.000060				
M	Ba	<	0.001024	M	Hf	<	0.000118	O	P	<	0.056000	M	Ta	<	0.000118				
M	Be	<	0.000118	M	Hg	<	0.000170	M	Pb		0.000241	M	Tb	<	0.000118				
M	Bi	<	0.000363	M	Ho	<	0.000118	M	Pd	<	0.000140	M	Te	<	0.002236				
O	Ca		0.011869	M	In	<	0.000118	M	Pr	<	0.000118	M	Th	<	0.000118				
M	Cd	<	0.000145	M	Ir	<	0.000118	M	Pt	<	0.000118	M	Ti		0.001386				
M	Ce	<	0.000245	M	K		0.002082	M	Rb	<	0.000118	M	Tl	<	0.000118				
M	Co	<	0.000119	M	La	<	0.000118	M	Re	<	0.000118	M	Tm	<	0.000118				
O	Cr		0.017206	M	Li	<	0.000501	M	Rh	<	0.000118	M	U	<	0.000395				
M	Cs		0.000477	M	Lu	<	0.000118	M	Ru	<	0.000118	s	V	<					
M	Cu	<	0.002021	M	Mg		0.000612	n	S	<		M	W		0.000174				
M	Dy	<	0.000118	M	Mn		0.000649	M	Sb		0.008706	M	Y	<	0.000118				
M	Er	<	0.000118	O	Mo		0.007182	M	Sc	<	0.000118	M	Yb	<	0.000118				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M4718 R: 01/12/21 (RA)

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

603

CERTIFIED WEIGHT REPORT:

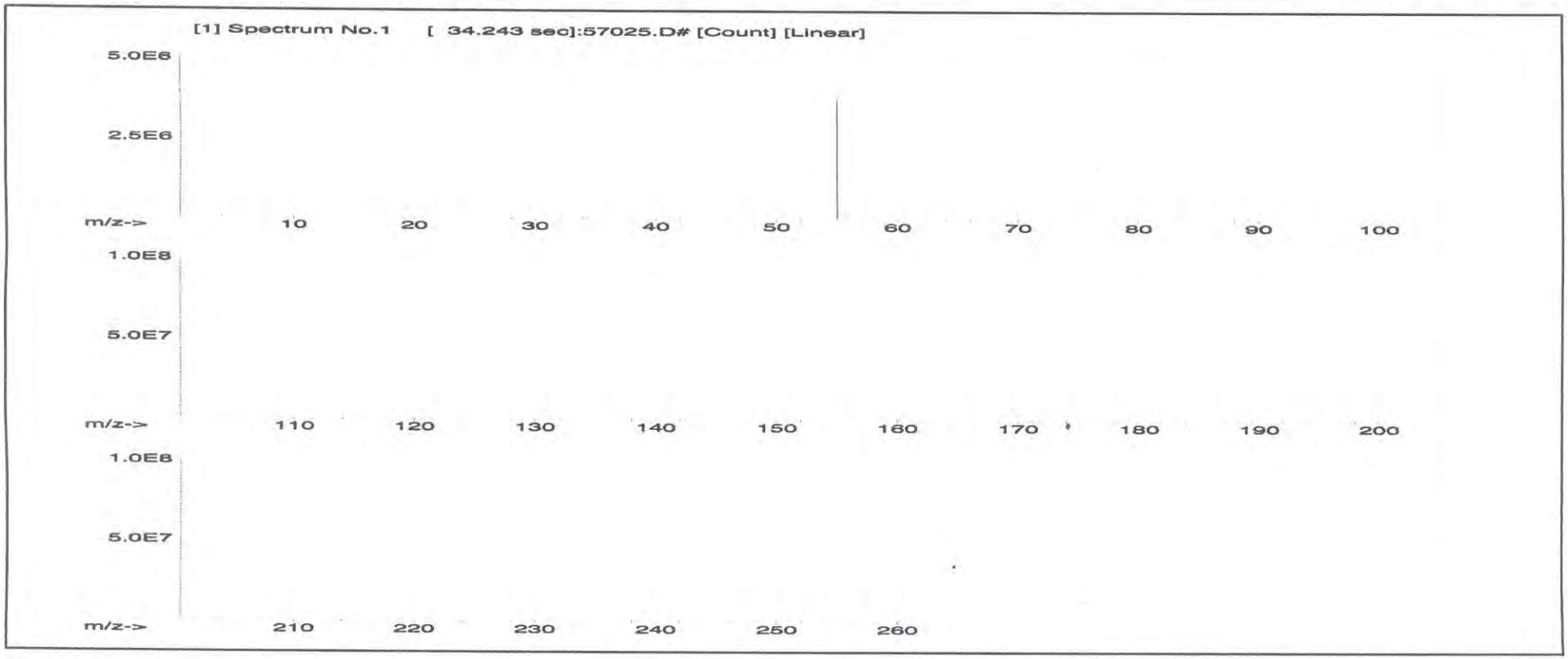
		Lot #	Solvent:
Part Number:	**58025**	19410105	Nitric Acid
Lot Number:	**070620**		
Description:	**Manganese (Mn)**		

2.0%	40.0 (mL)	Nitric Acid	

Formulated By:	Lawrence Barry	070620
Reviewed By:	Pedro L. Rentas	070620

Expiration Date: 070623
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.61 0.153 Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese (II) nitrate tetrahydrate (Mn)	58125	010720	0.1000	199.9	0.084	1000	10000.7	**1000.0**	**2.2**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



604

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M4768 R: 10/28/2020 (BH)

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605

CERTIFIED WEIGHT REPORT:

Part Number: 57028
Lot Number: 072420
Description: Nickel (Ni)

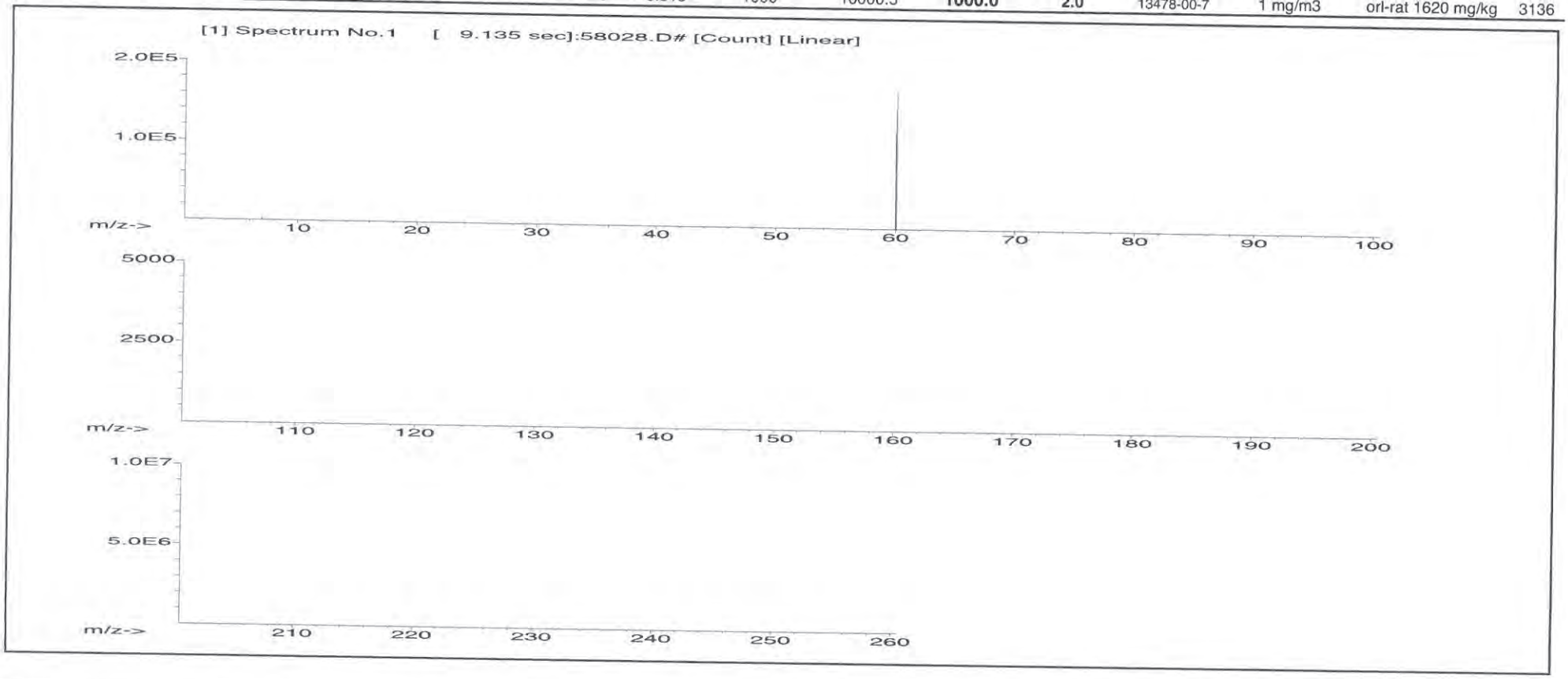
Expiration Date: 072423
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 23060
Volume shown below was diluted to (mL): 2000.02

	Lot #	Solvent:	
	19410105	Nitric Acid	
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 072420
Reviewed By: Pedro L. Rentas 072420

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel (II) nitrate Hexahydrate (Ni)	58128	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



606

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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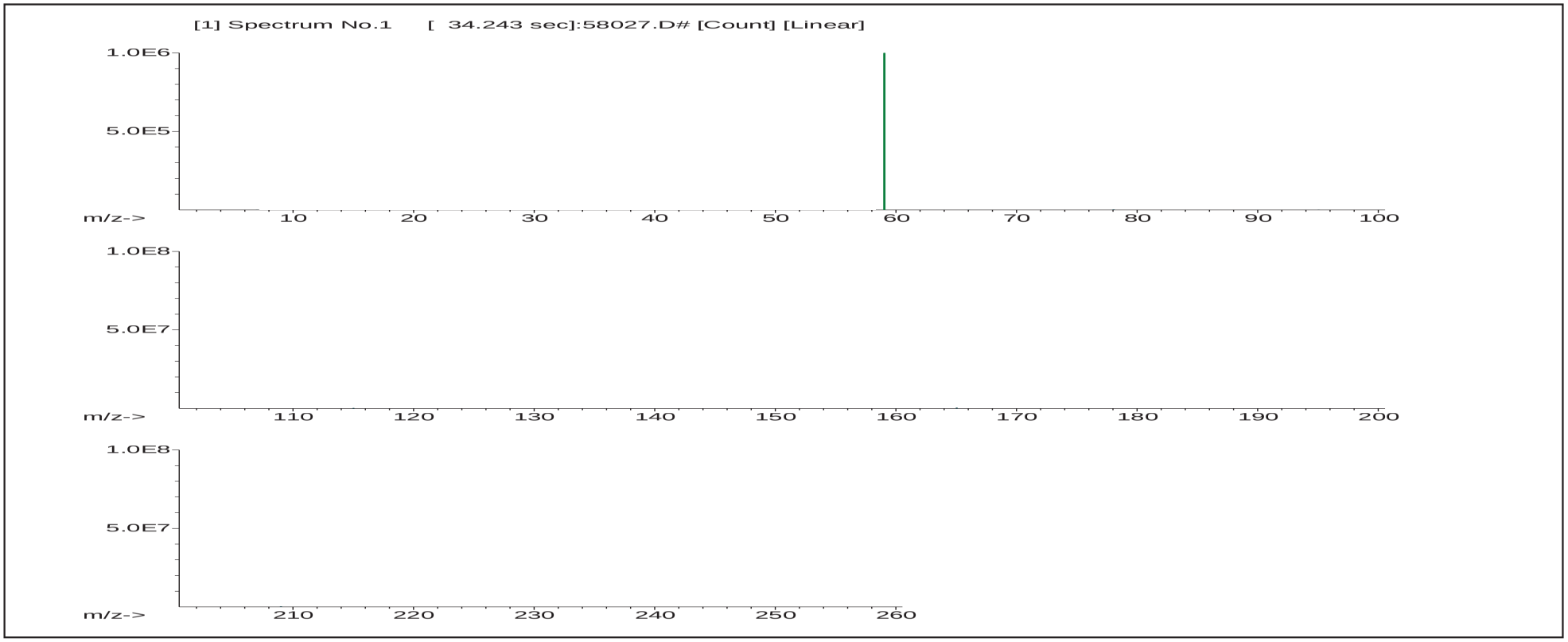
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57027**	19410105	Nitric Acid
Lot Number:	**020821**		
Description:	**Cobalt (Co)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	020824		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty

Formulated By:	Lawrence Barry	020821
Reviewed By:	Pedro L. Rentas	020821

607

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 mg/kg	3113



608

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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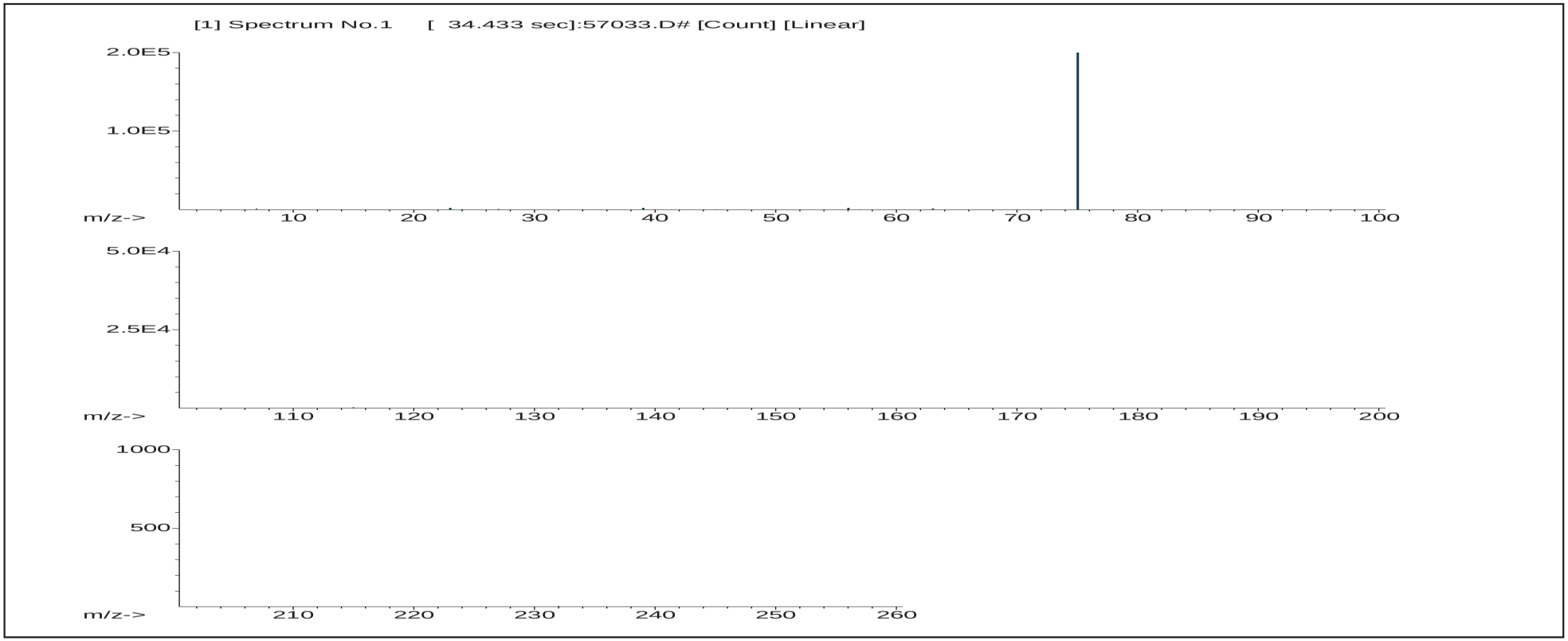
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57033**	19410105	Nitric Acid
Lot Number:	**012521**		
Description:	**Arsenic (As)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	012524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

609

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



610

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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611

CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 031921
Description: Boron (B)

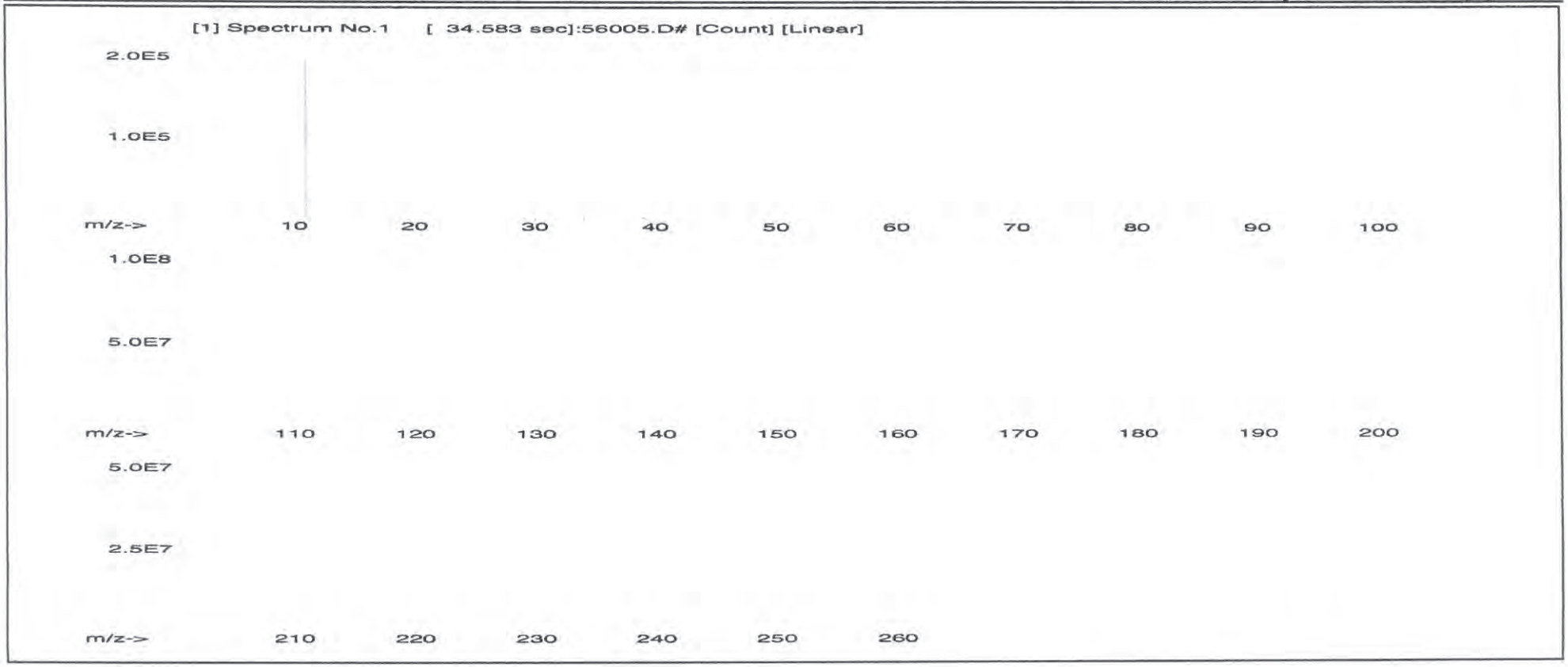
Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
2.0%	40.0 (mL)	Ammonium hydroxide	

Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 031921

Pedro Rentas
Reviewed By: Pedro L. Rentas 031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



612

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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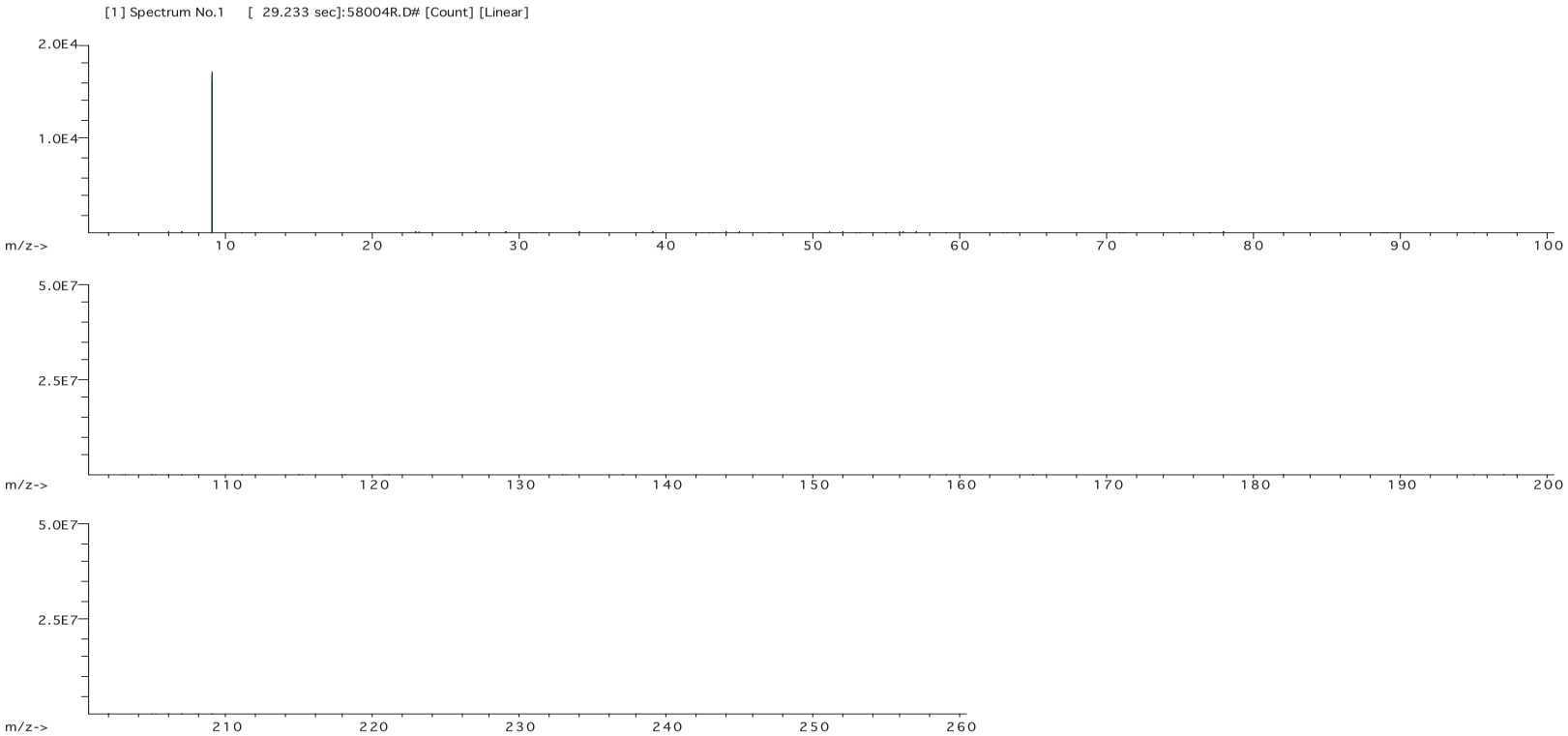
613

CERTIFIED WEIGHT REPORT:

				Lot #	**Solvent:**		
Part Number:	**57004**			19410105	Nitric Acid		
Lot Number:	**030221**						
Description:	**Beryllium (Be)**						
				2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	030224						
Recommended Storage:	Ambient (20 ºC)						
Nominal Concentration (µg/mL):	**1000**						
NIST Test Number:	23060		5E-05	Balance Uncertainty			
Volume shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty			

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



614

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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615

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

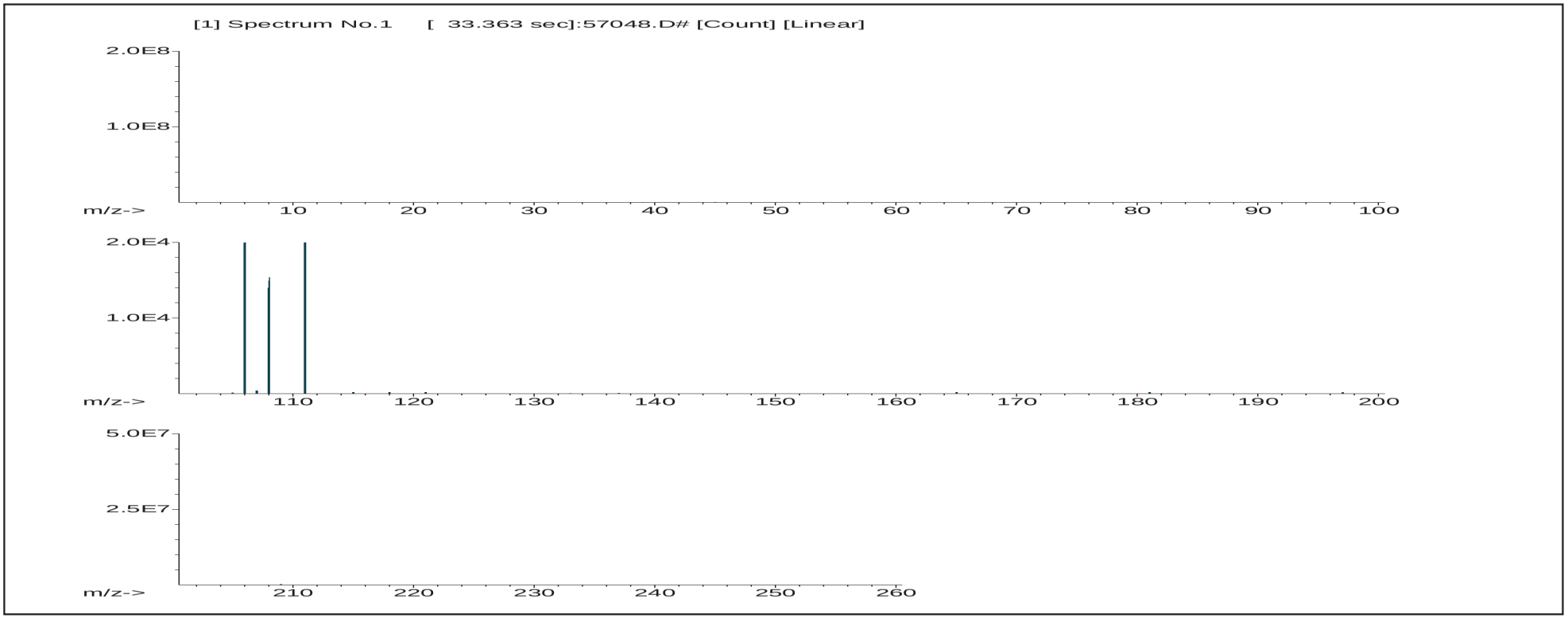
Giovanni Esposito

Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



616

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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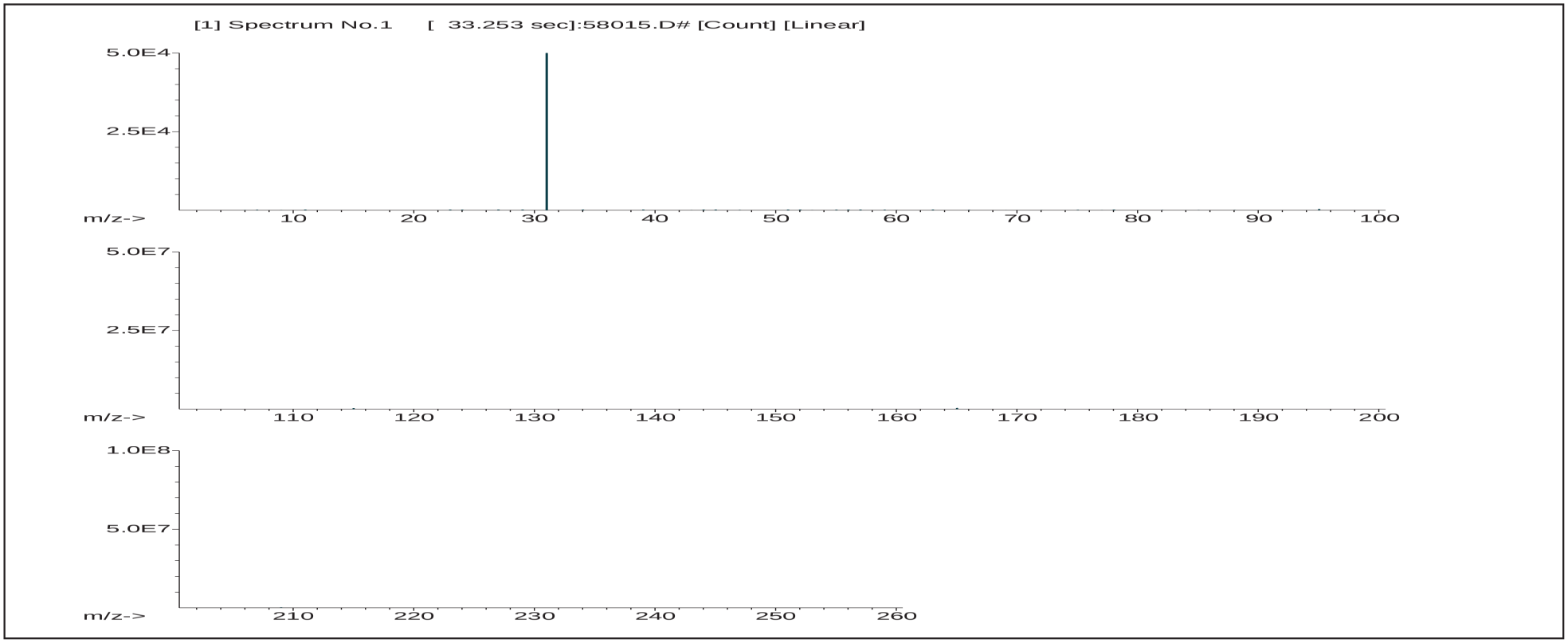
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57015**	20370011	Nitric Acid
Lot Number:	**051121**		
Description:	**Phosphorous (P)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	051124		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	051121
Reviewed By:	Pedro L. Rentas	051121

617

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



618

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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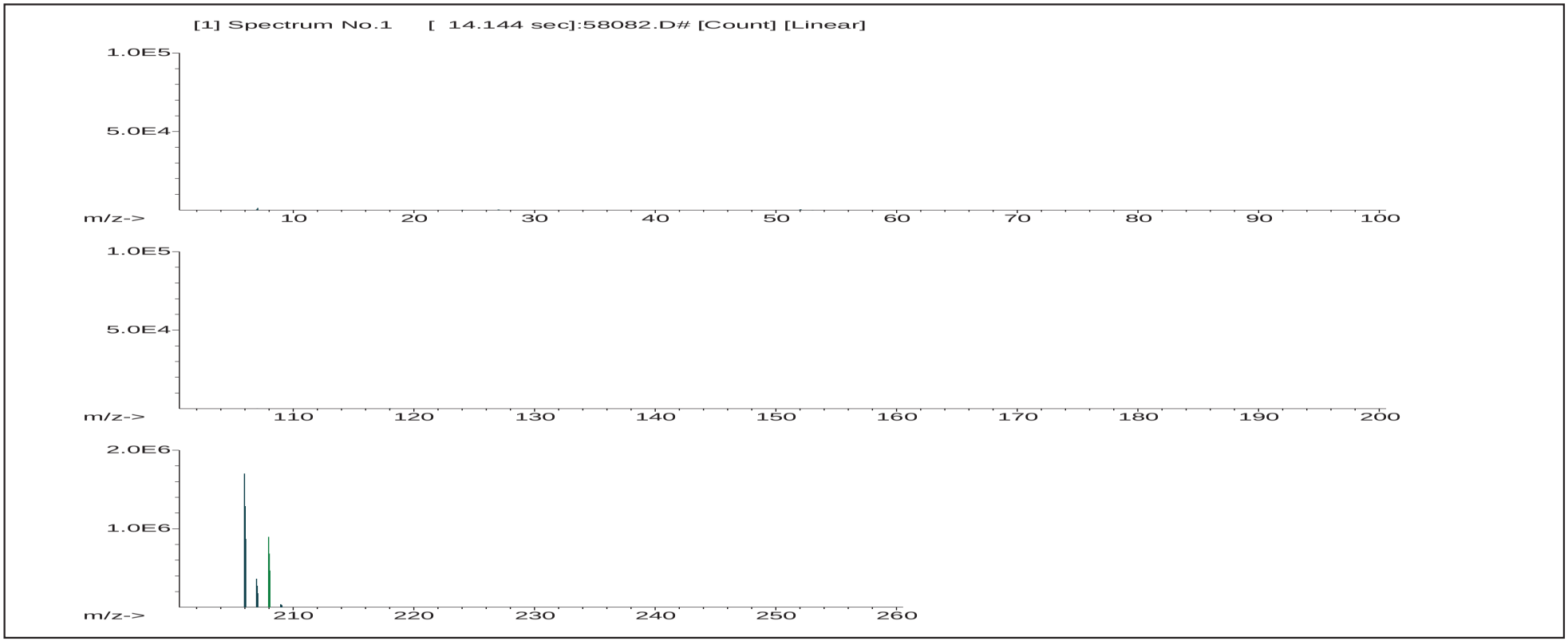
CERTIFIED WEIGHT REPORT:

619

				Lot #	**Solvent:**	
Part Number:	**57082**			20370011	Nitric Acid	
Lot Number:	**062221**					
Description:	**Lead (Pb)**					
				2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062224					
Recommended Storage:	Ambient (20 ºC)					
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	6UTB		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	062221
Reviewed By:	Pedro L. Rentas	062221

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



620

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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621

CERTIFIED WEIGHT REPORT:

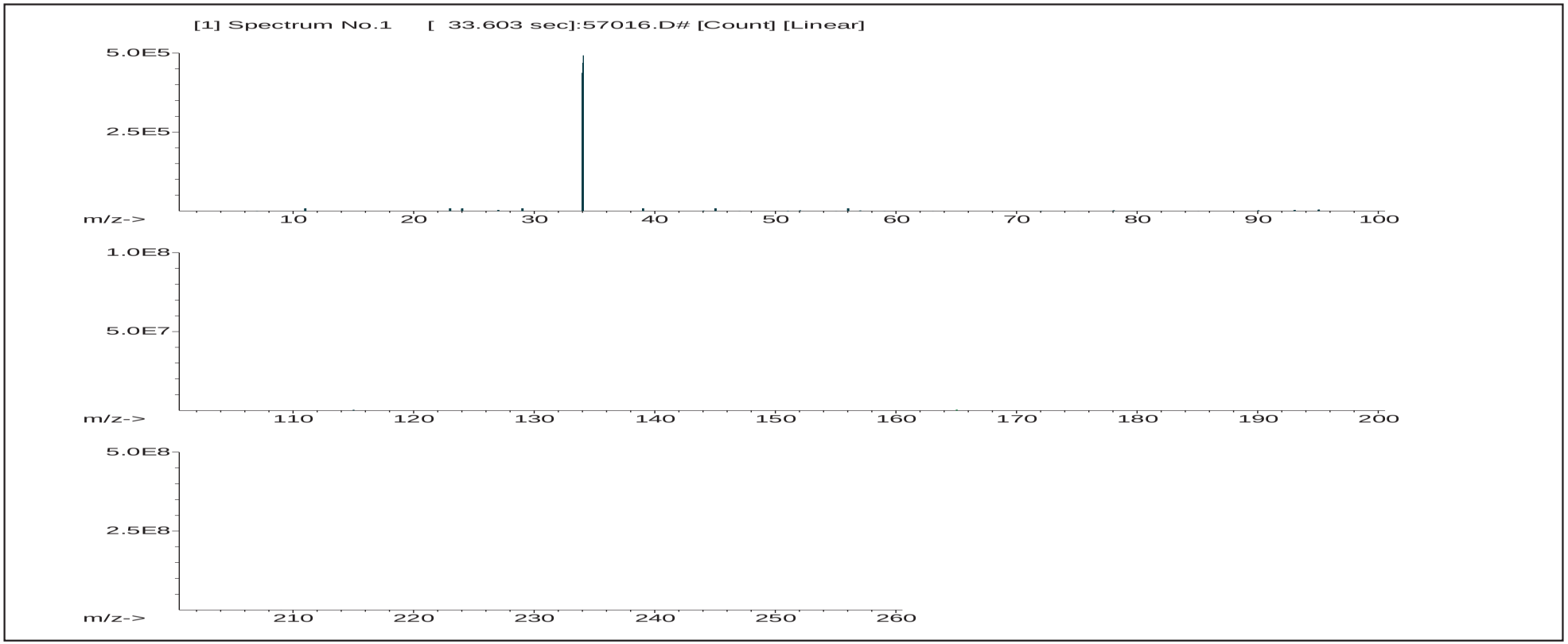
		Lot #	Solvent:
		051721	ASTM Type 1 Water

Part Number: **57016**
Lot Number: **051721**
Description: **Sulfur (S)**

Expiration Date: 051724
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



622

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

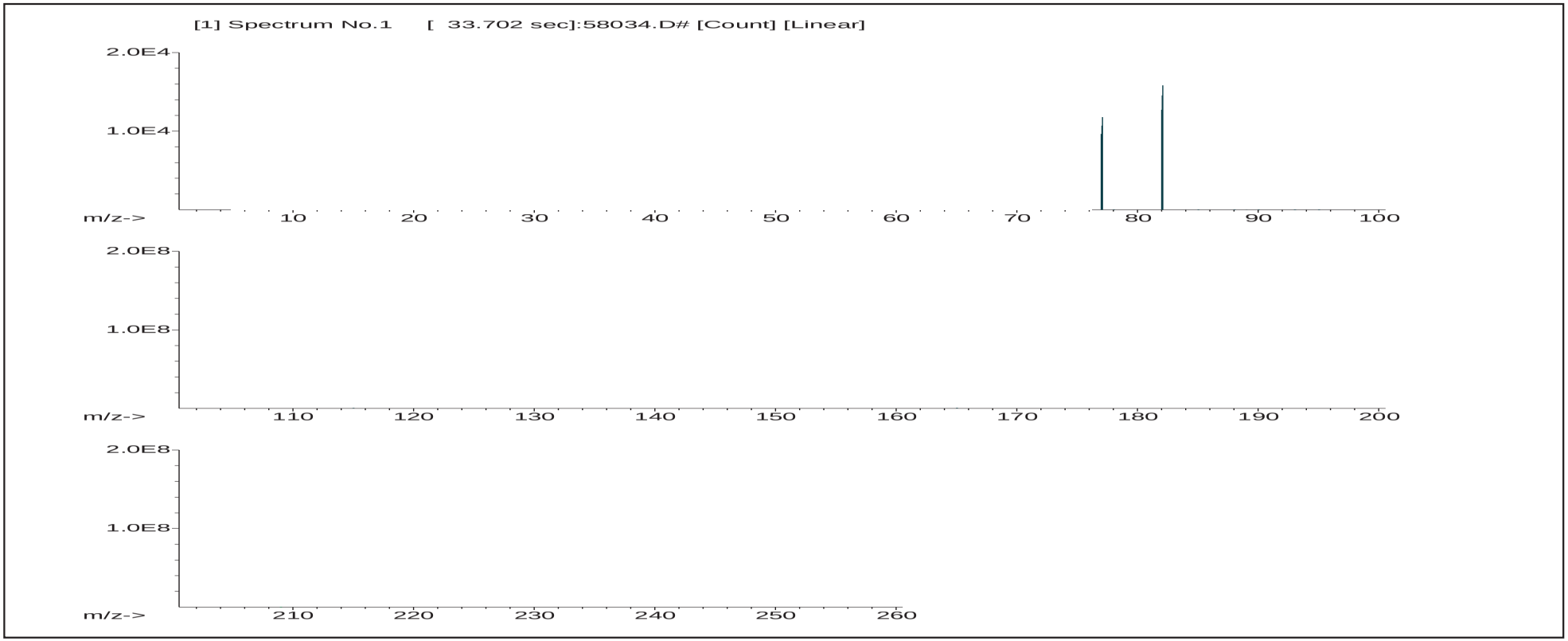
Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

623

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



624

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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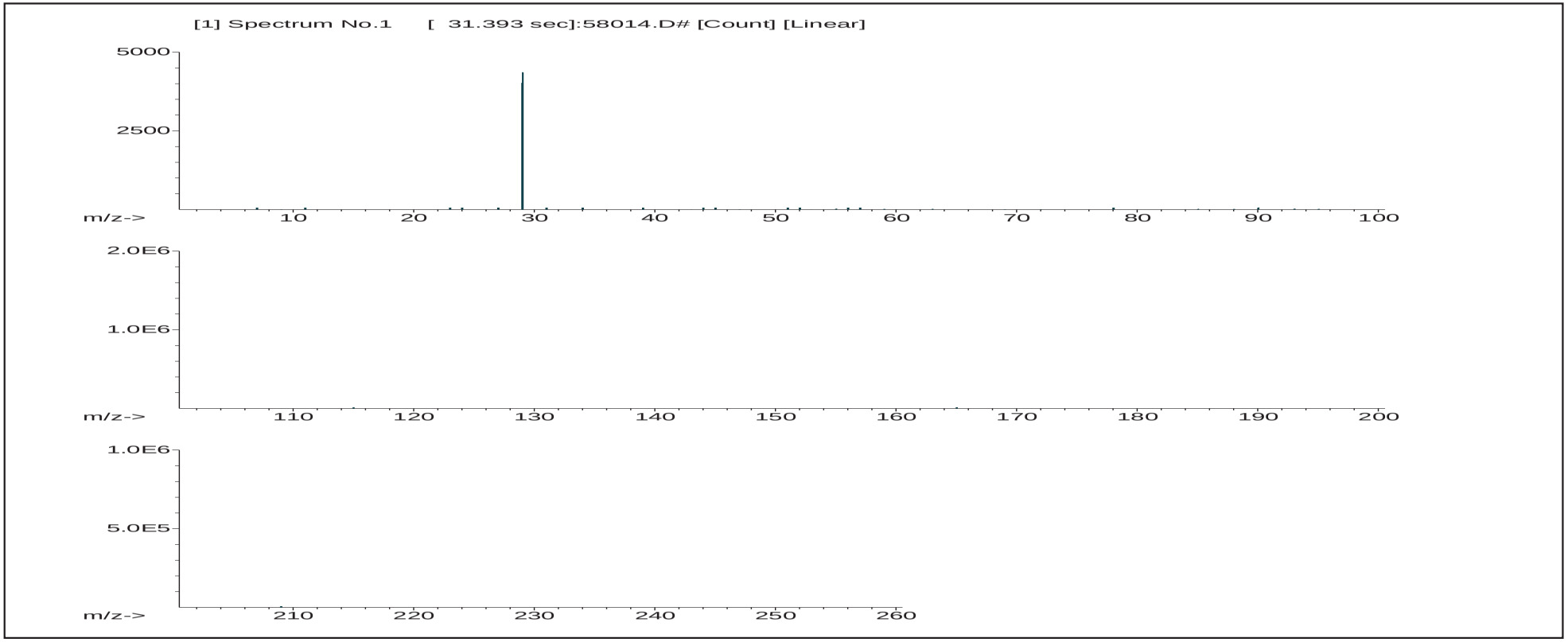
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

625

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



626

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57047**	20370011	Nitric Acid	
Lot Number:	**072921**			
Description:	**Silver (Ag)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072924			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

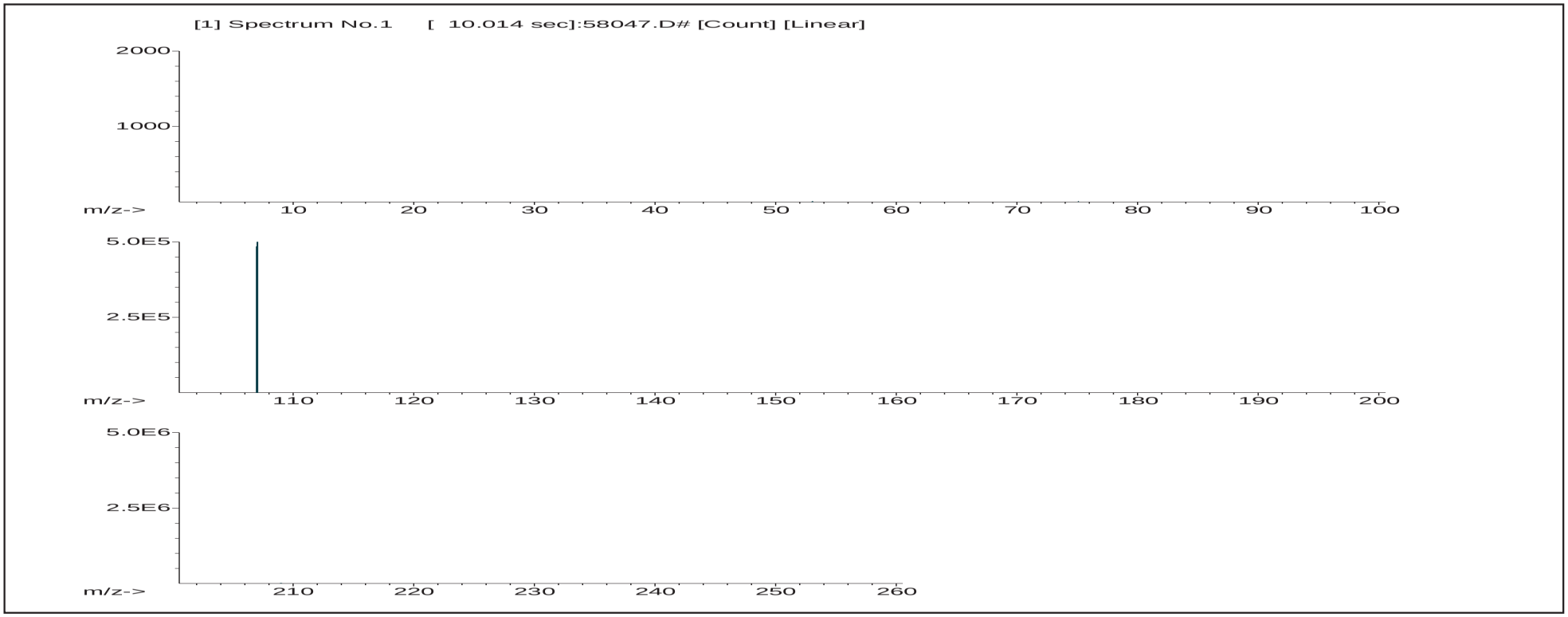
Formulated By:	Giovanni Esposito	072921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072921

627

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



628

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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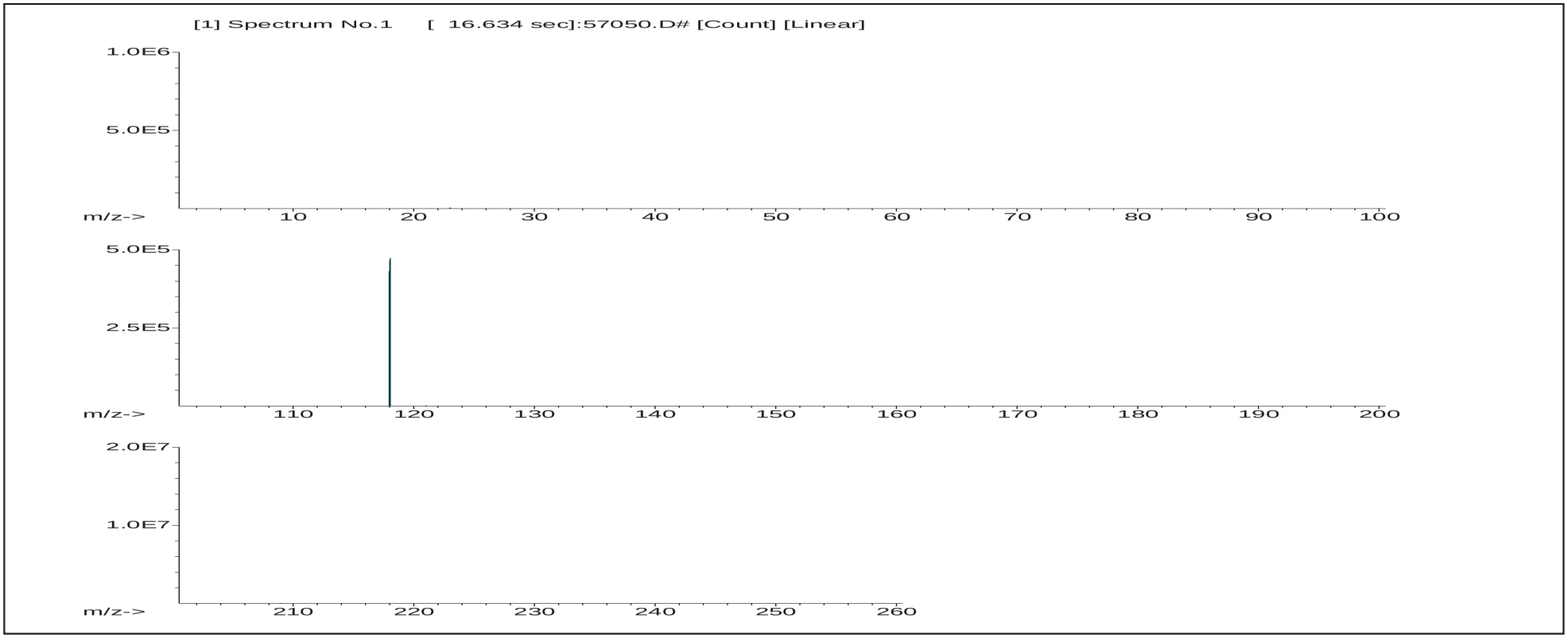
629

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57050**	19410105	Nitric Acid	
Lot Number:	**021121**	240241	Hydrochloric acid	
Description:	**Tin (Sn)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	021124	6.0%	120.0	Hydrochloric acid
Recommended Storage:	Ambient (20 ºC)		(mL)	
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty	

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



630

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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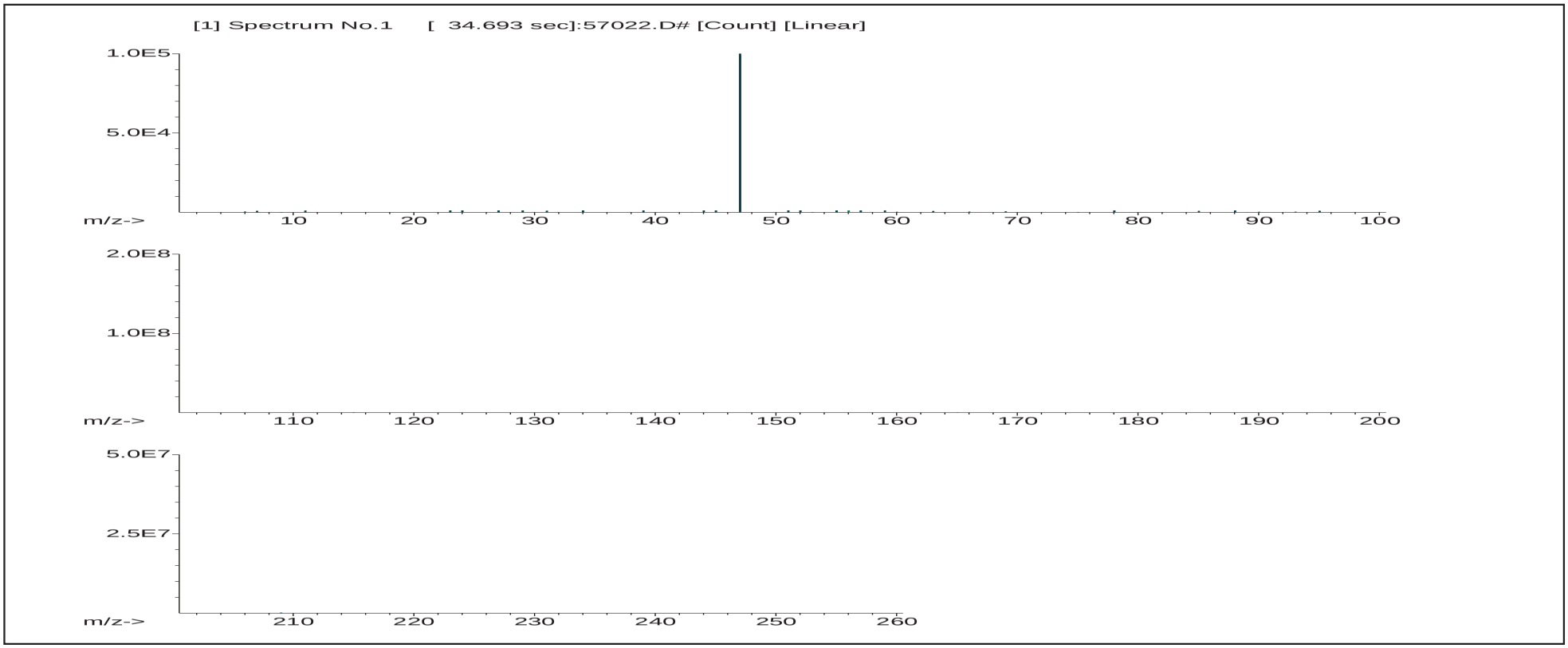
CERTIFIED WEIGHT REPORT:

631

		Lot #	Solvent:
Part Number:	**57022**	20370011	Nitric Acid
Lot Number:	**070721**		
Description:	**Titanium (Ti)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	070724		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



632

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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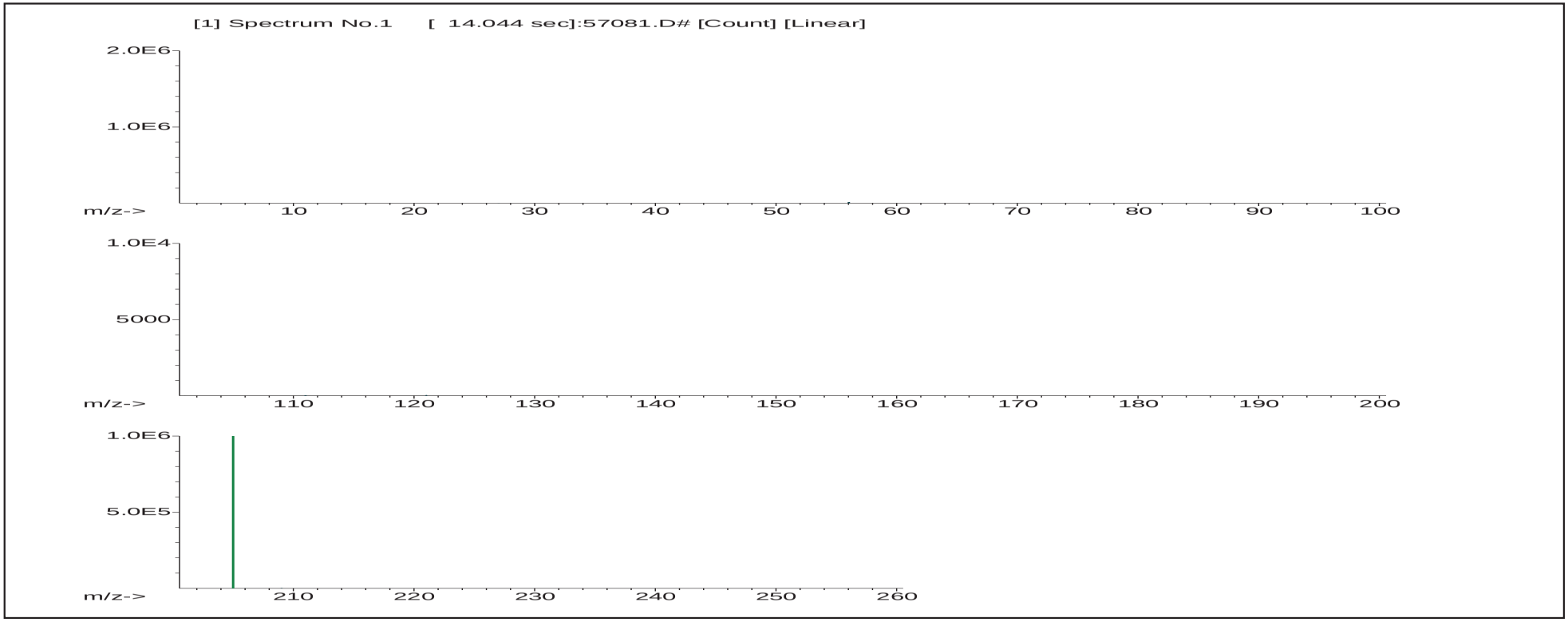
633

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57081**	20370011	Nitric Acid	
Lot Number:	**073021**			
Description:	**Thallium (Tl)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	073024			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito		
Formulated By:	Giovanni Esposito	073021
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



634

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58030**	20370011	Nitric Acid
Lot Number:	**031921**		
Description:	**Zinc (Zn)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Giovanni Esposito

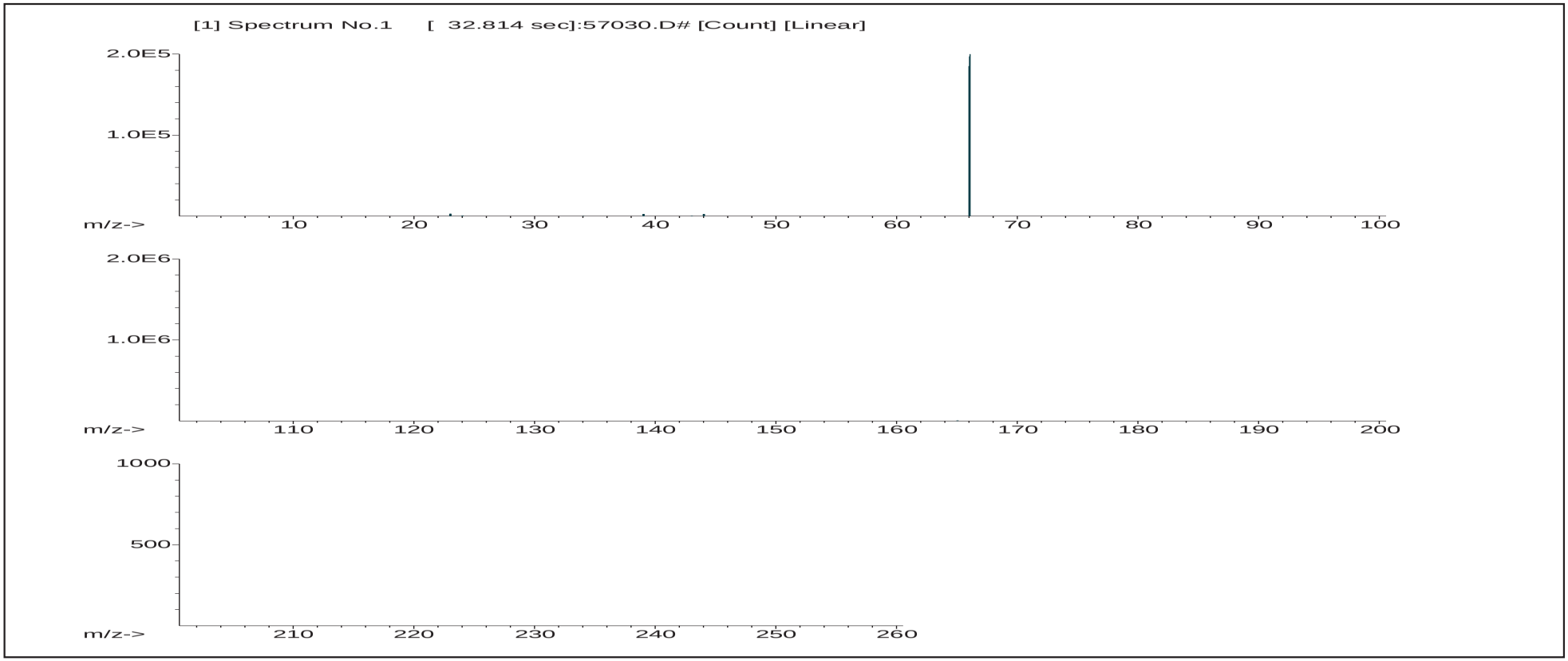
Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

635

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



636

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

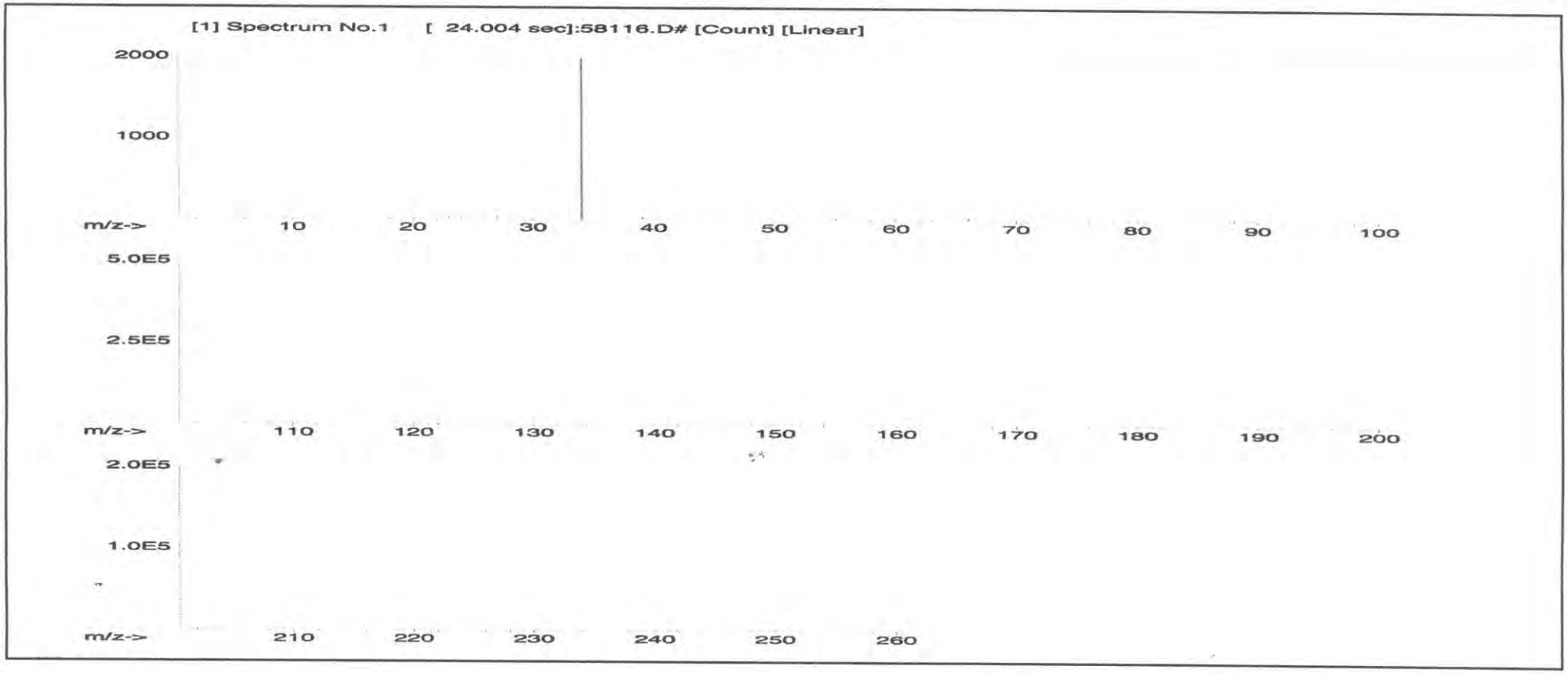
Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



637

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

638

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639

CERTIFIED WEIGHT REPORT:

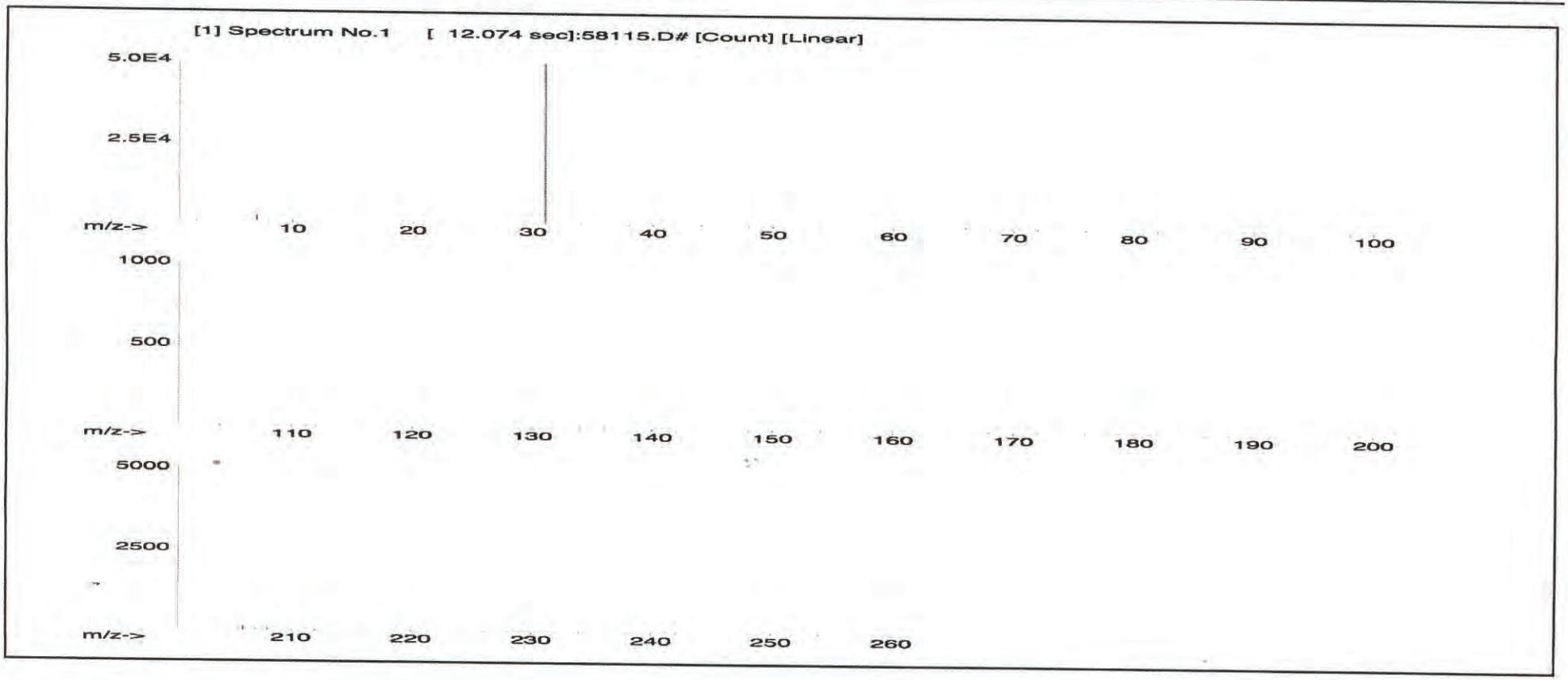
Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



640

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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641

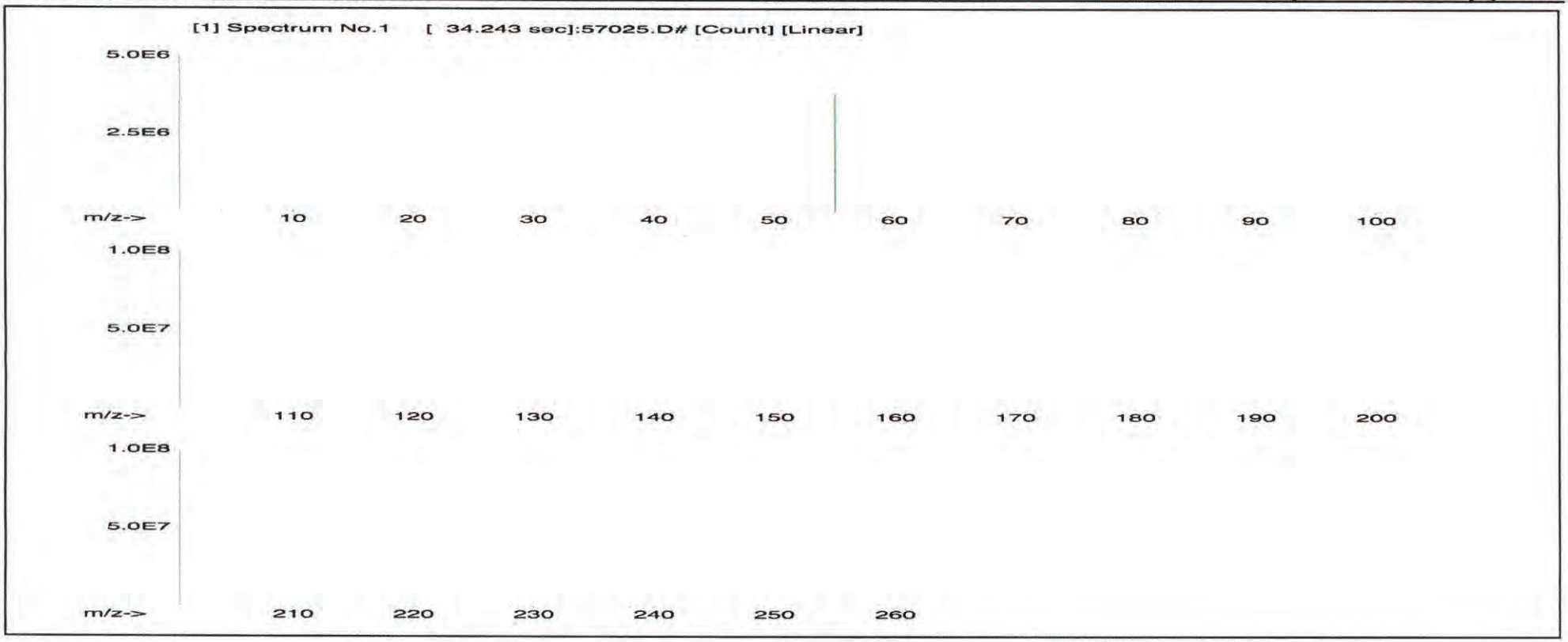
CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:
Part Number:	**58025**	20510011	Nitric Acid
Lot Number:	**060122**		
Description:	**Manganese (Mn)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	060125		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



642

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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643

CERTIFIED WEIGHT REPORT:

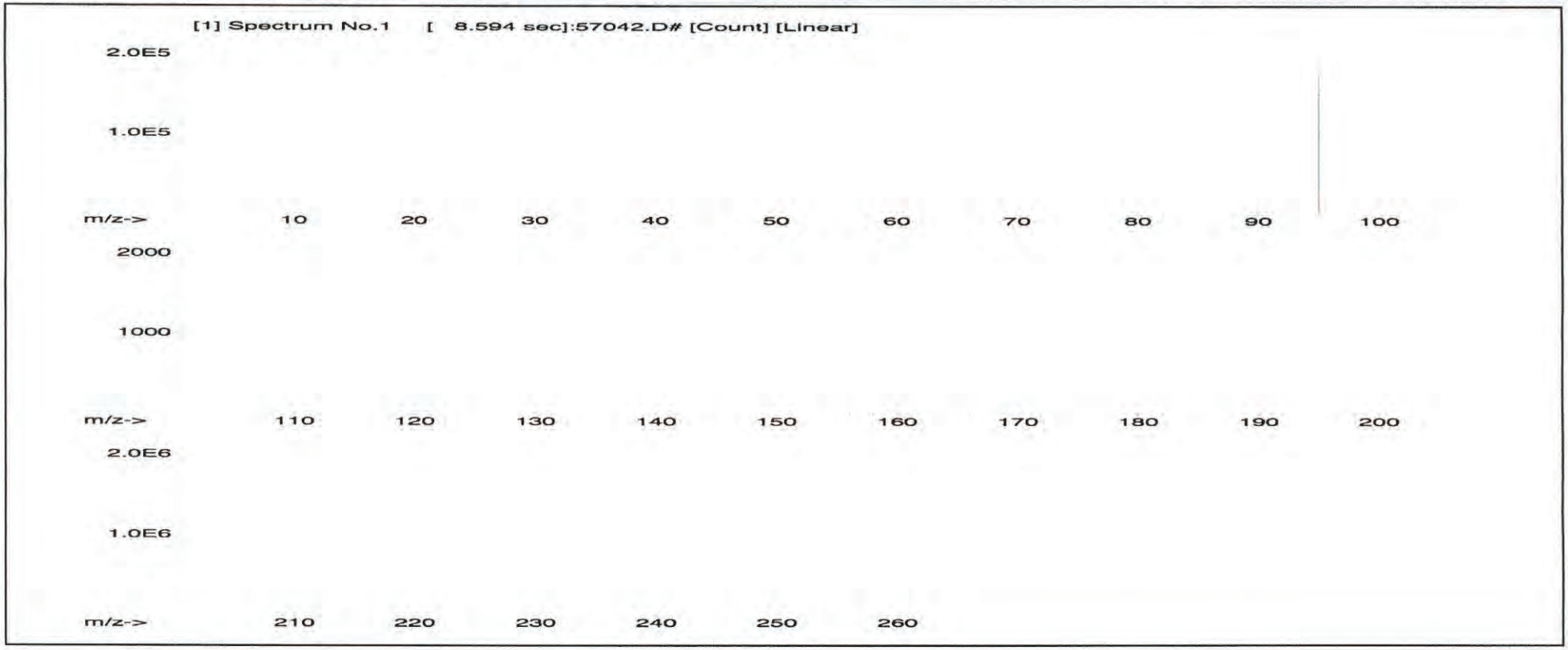
Part Number: **57042**
Lot Number: **051722**
Description: **Molybdenum (Mo)**

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



644

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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645

CERTIFIED WEIGHT REPORT:

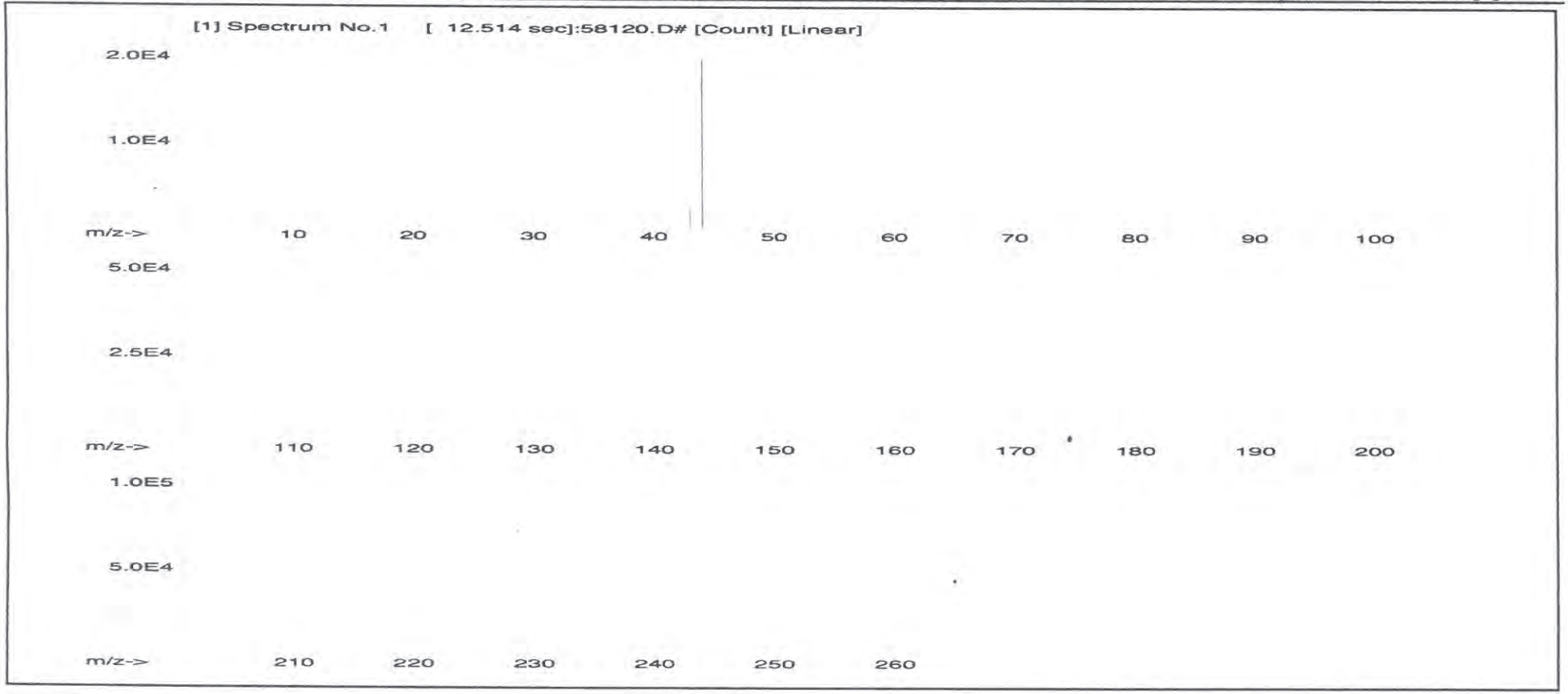
Part Number: 58120
Lot Number: 082021
Description: Calcium (Ca)
Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	082021
Reviewed By:	Pedro L. Rentas	082021

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

646

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647

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

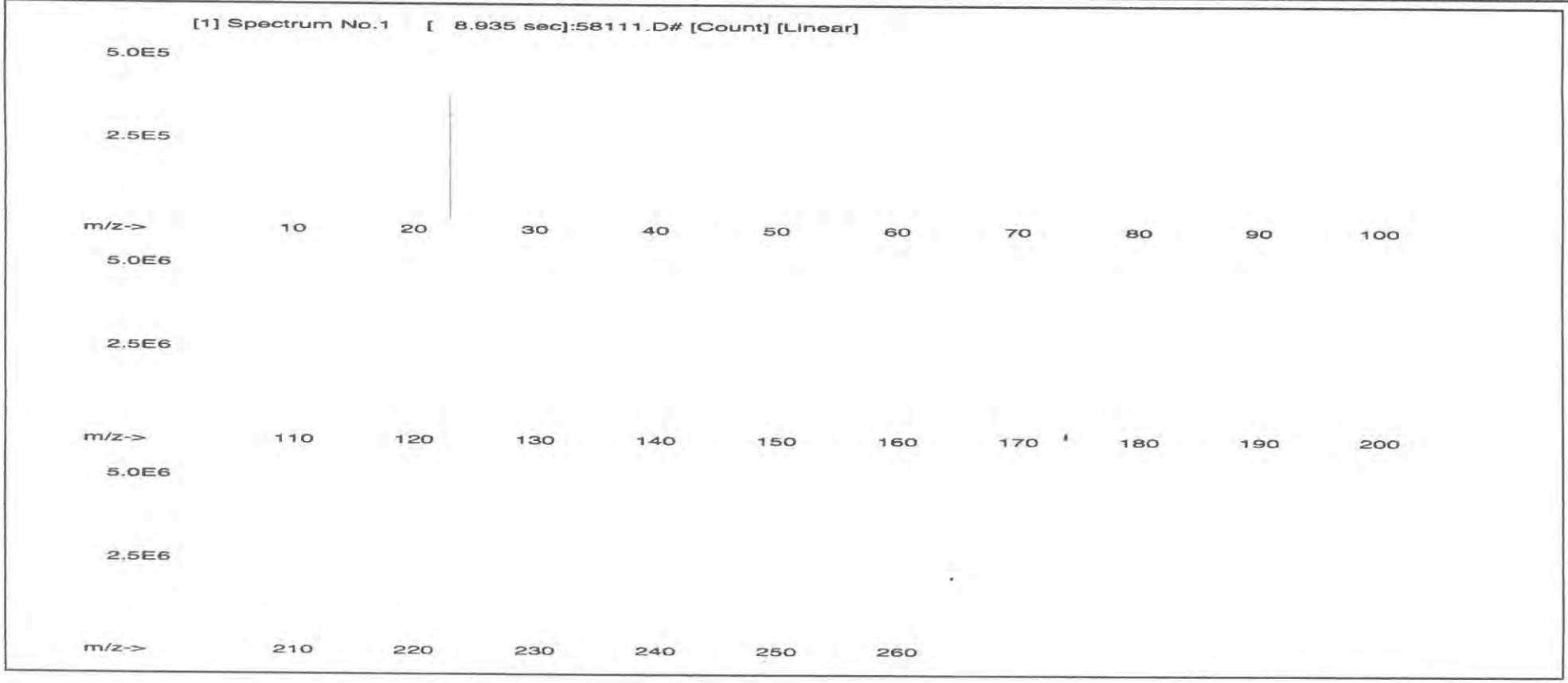
Giovanni Esposito

Formulated By:	Giovanni Esposito	092121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



648

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

Part Number: **57119**
Lot Number: **062321**
Description: **Potassium (K)**

Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

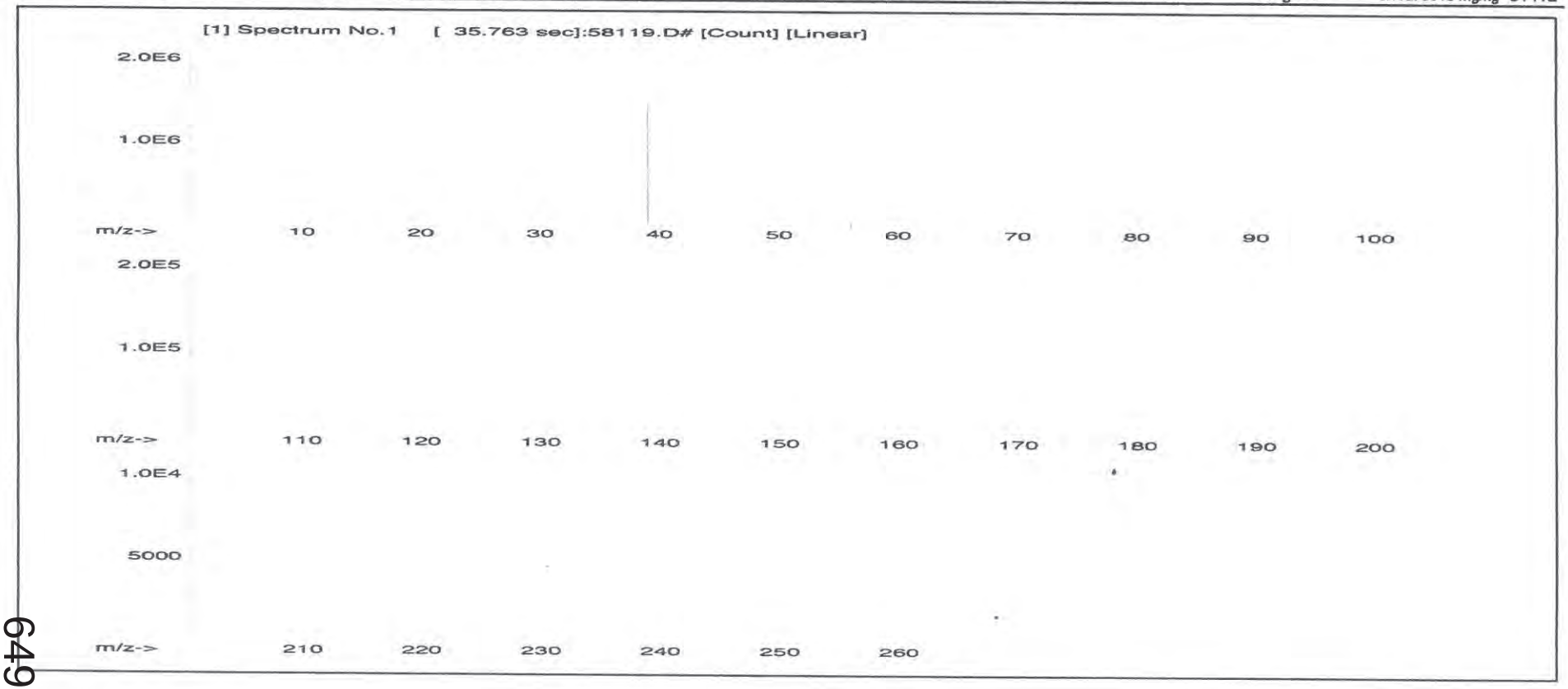
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



649

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57051**	20370011	Nitric Acid
Lot Number:	**101521**		
Description:	**Antimony (Sb)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	101524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty

Giovanni Esposito

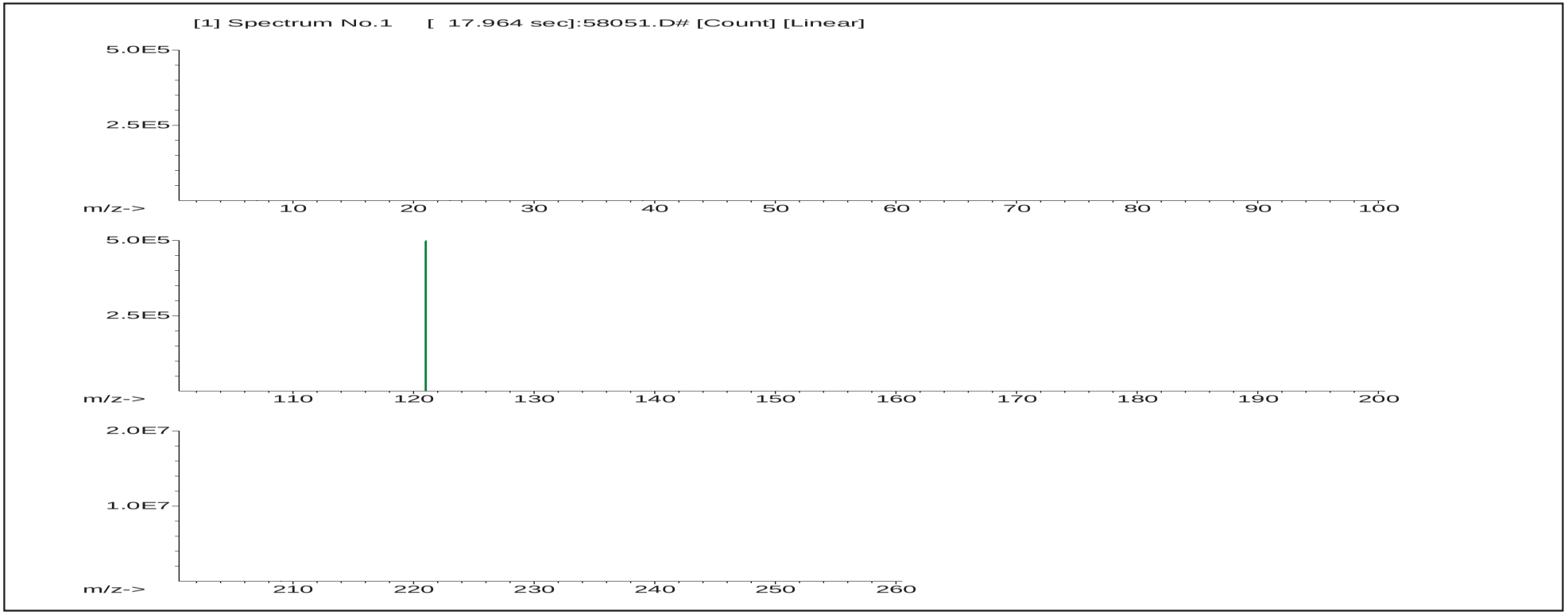
Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

651

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



652

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5227 R: 10/18/2021

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57023**	20370011	Nitric Acid
Lot Number:	**100121**		
Description:	**Vanadium (V)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	100124		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty

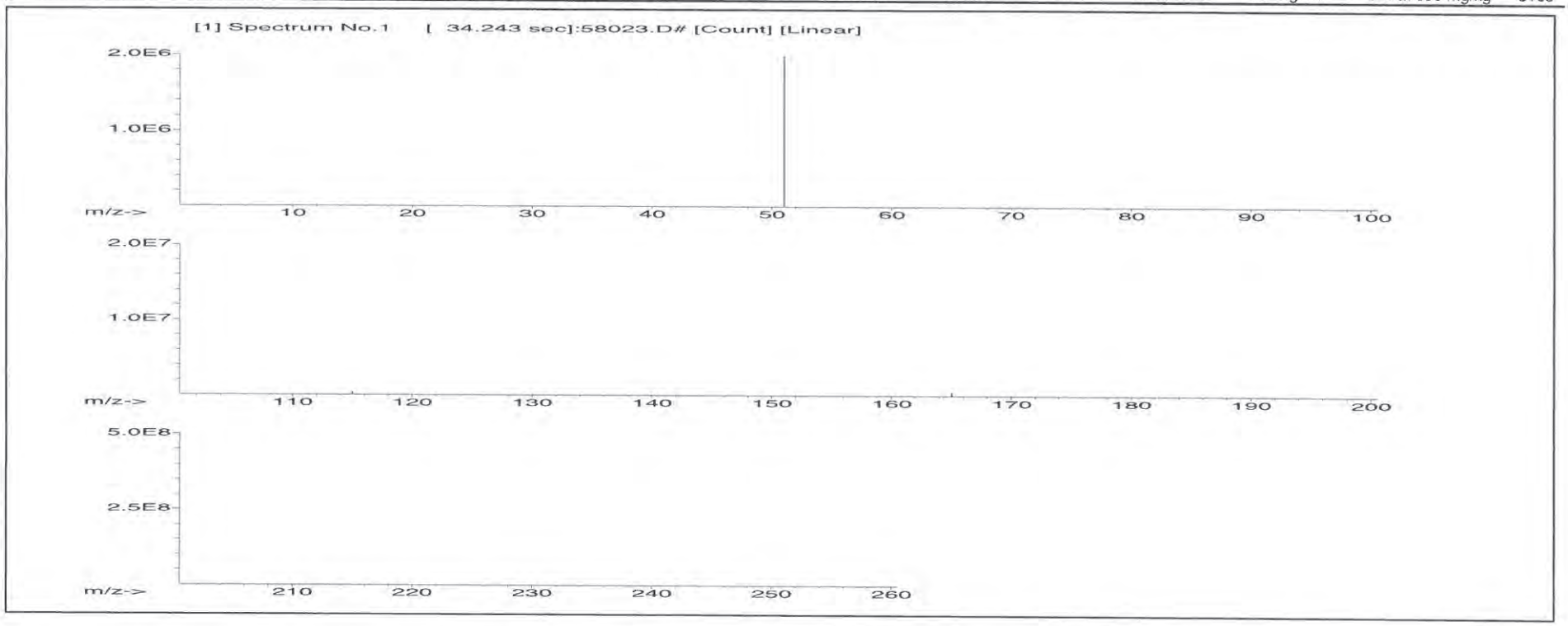
Giovanni Esposito

Formulated By:	Giovanni Esposito	100121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	100121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



653

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5229 R: 07/05/22 (BP)

Certified Reference Material CRM

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655

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57092**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Uranium (U)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

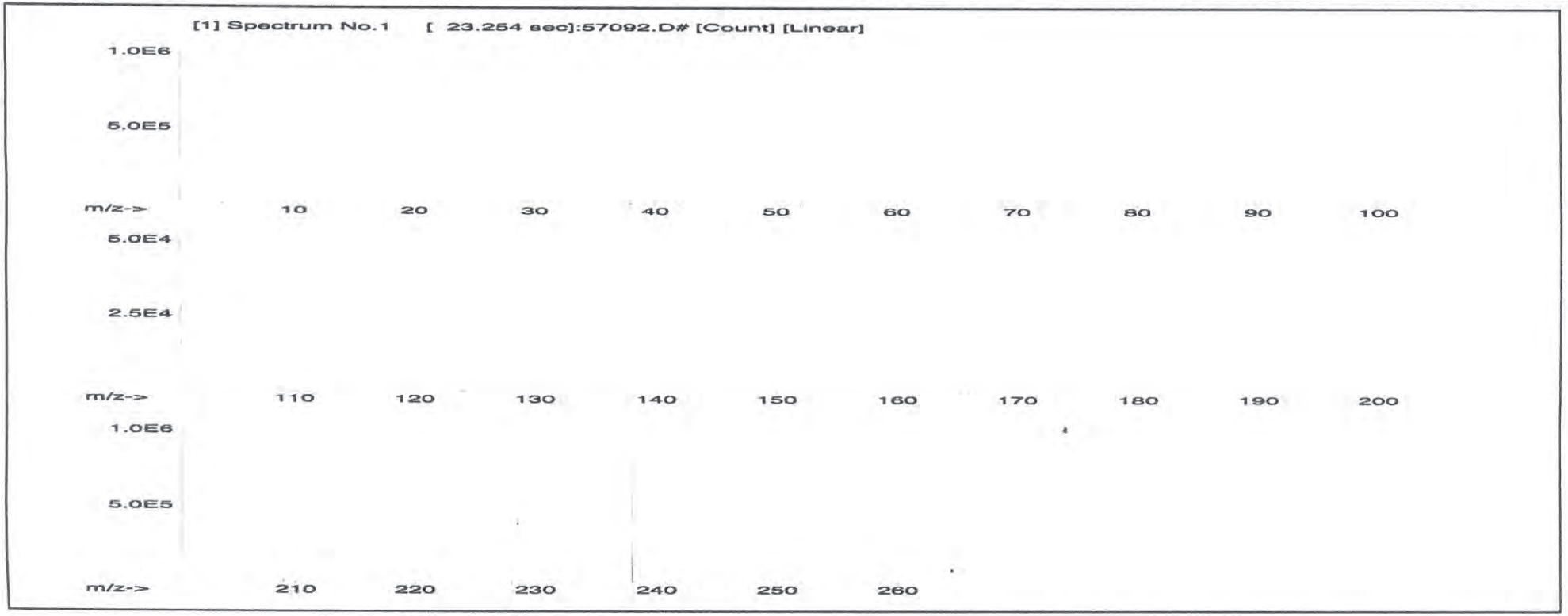
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	**2.1**	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



659

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M5230 R 07/05/22 BH

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657

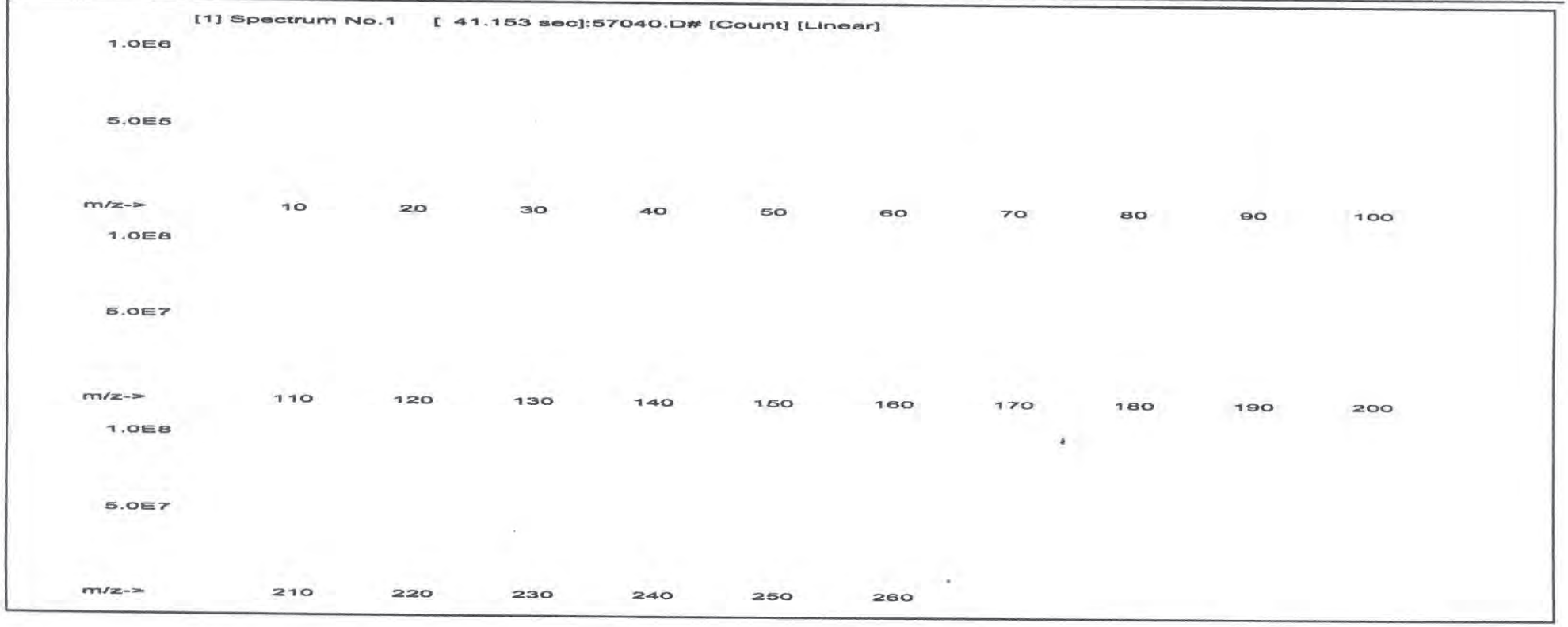
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57040**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Zirconium (Zr)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	300.0	0.084	1000	10000.3	**1000.0**	**2.1**	13520-92-8	NA	NA	NA



658

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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Christiansburg, VA 24073 USA
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CERTIFICATE OF ANALYSIS

R: 7/6/22 M5231

tel: 800.669.6799 / 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	R2-MEB695520
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium,	Beryllium,
Bismuth,	Cerium,
Cobalt,	Indium,
Lithium,	Nickel,
Lead,	Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.05 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.04 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.00 ± 0.04 µg/mL
Nickel, Ni	10.00 ± 0.04 µg/mL	Uranium, U	10.00 ± 0.05 µg/mL

Density: 1.023 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	991212
Bi	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 04, 2024

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Wednesday, Oct 14, 2020 by utruong. Revision was made for the following reason: Added missing isotopic abundance for Uranium..

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 (B4)

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

663

CERTIFIED WEIGHT REPORT:

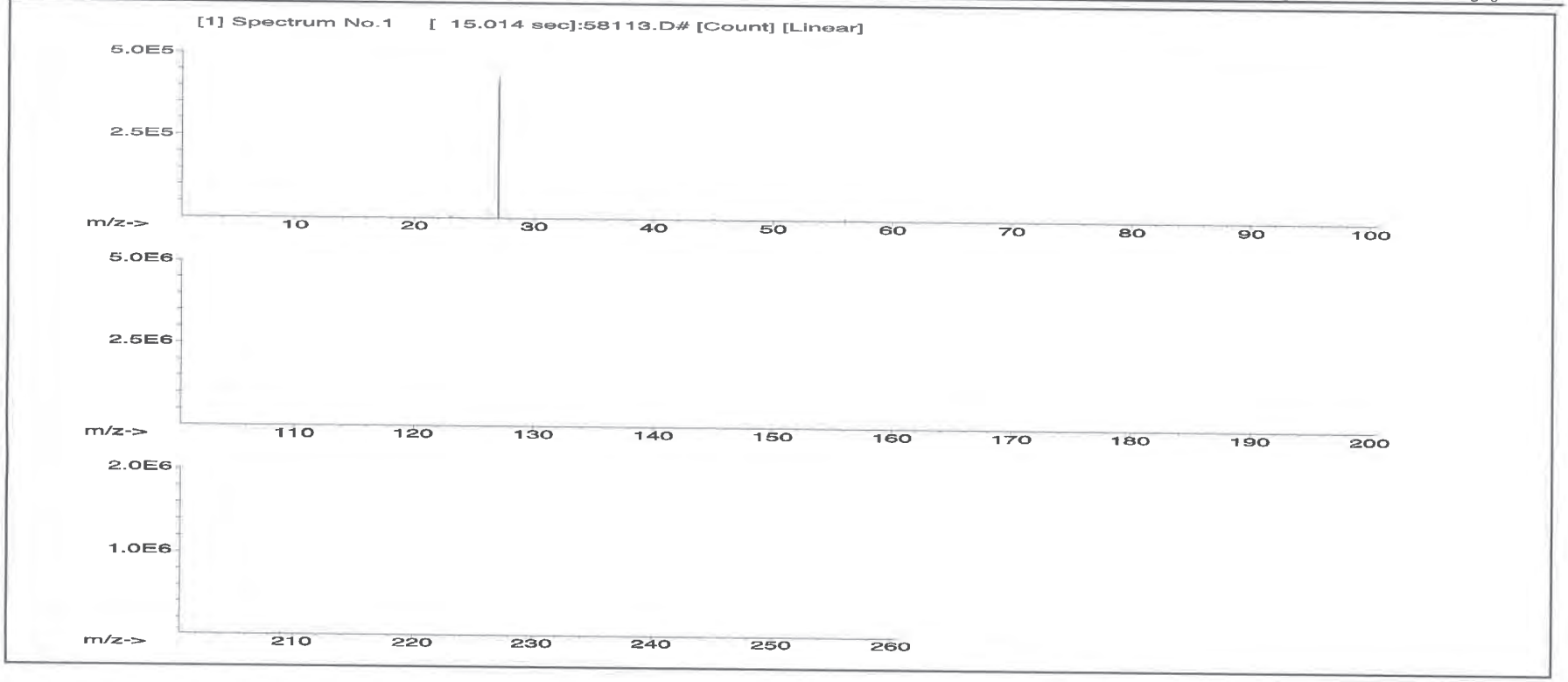
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58126**
Lot Number: **020422** M5298
Description: **Iron (Fe)**

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB

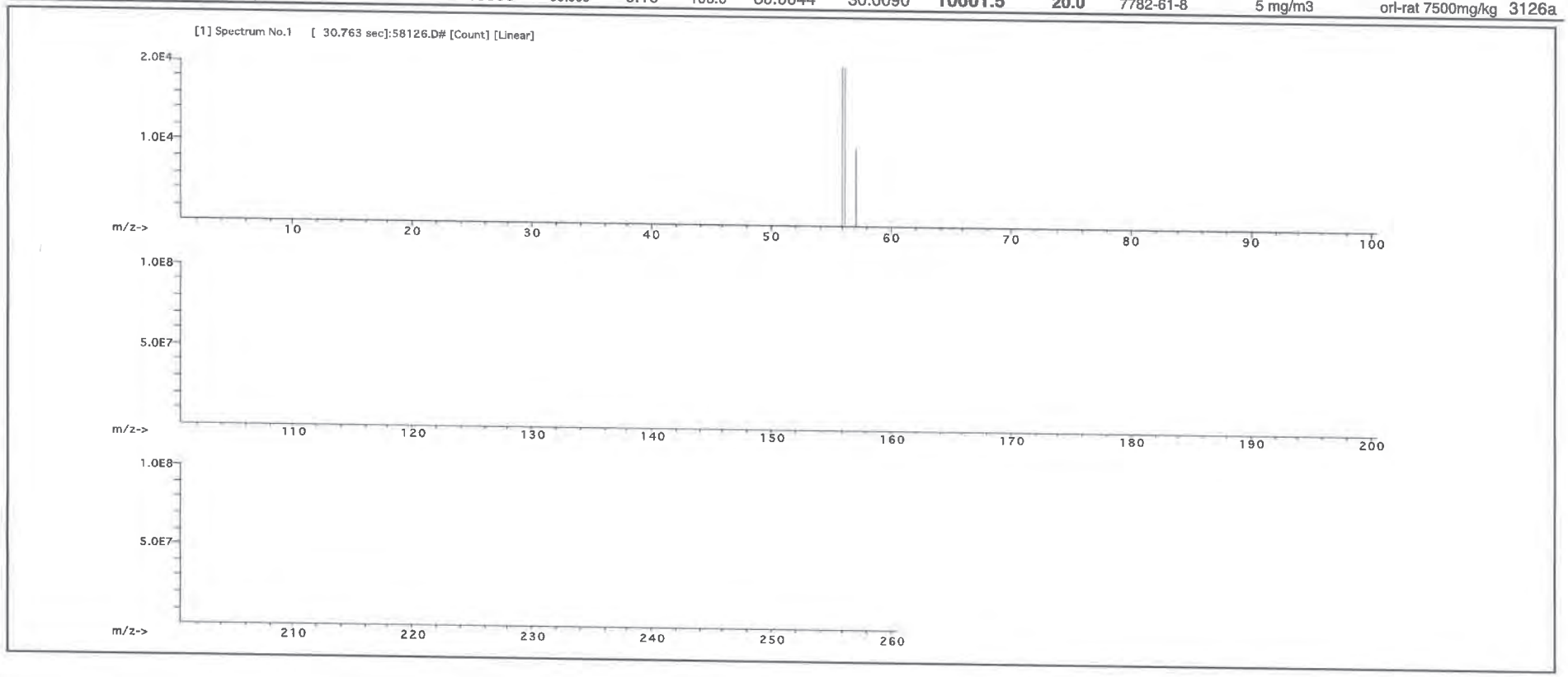
	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty 5E-05 Balance Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

	Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



667

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

668

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

673

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

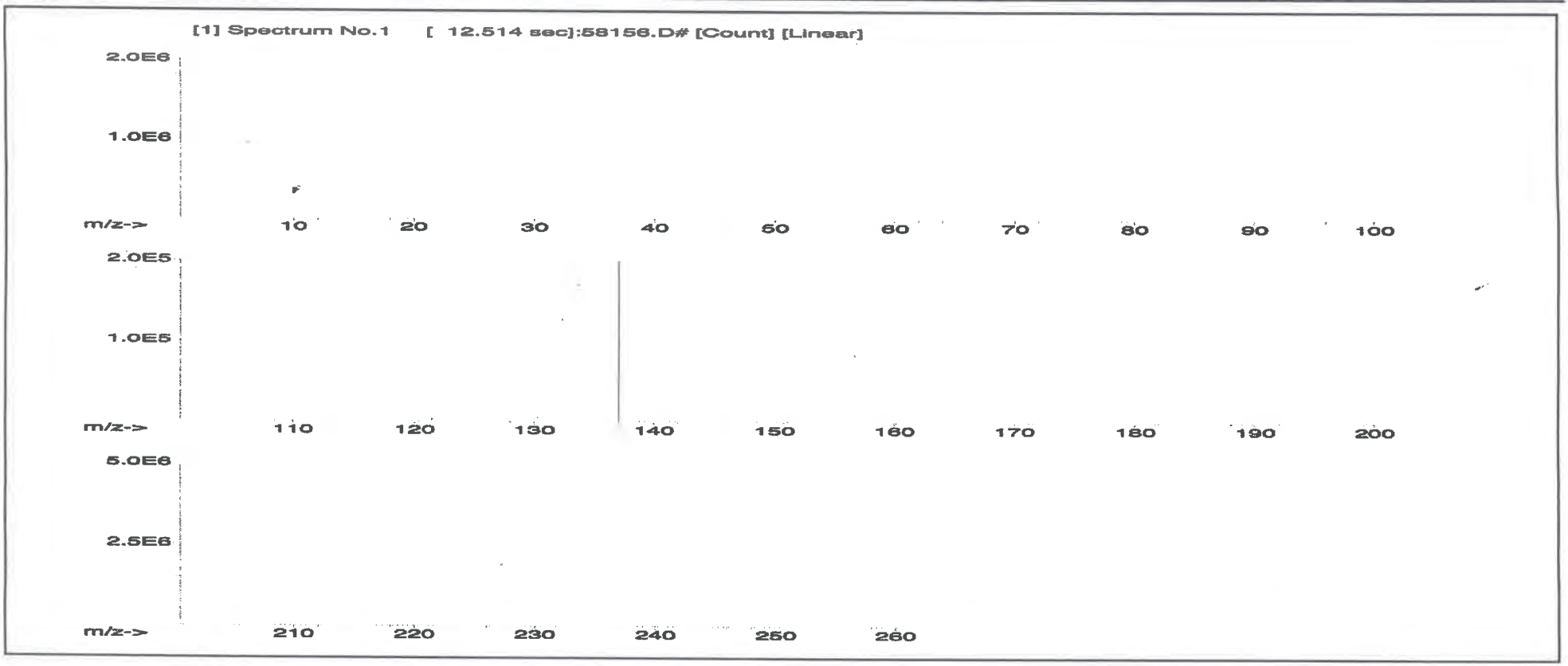
Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

	Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

M5448
R: 04/01/22

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea: Bismuth, Indium, Rhodium, Terbium, Holmium, 6-Lithium, Scandium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael J. Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/14/23 M5468

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

682

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 120922
Description: Magnesium (Mg)

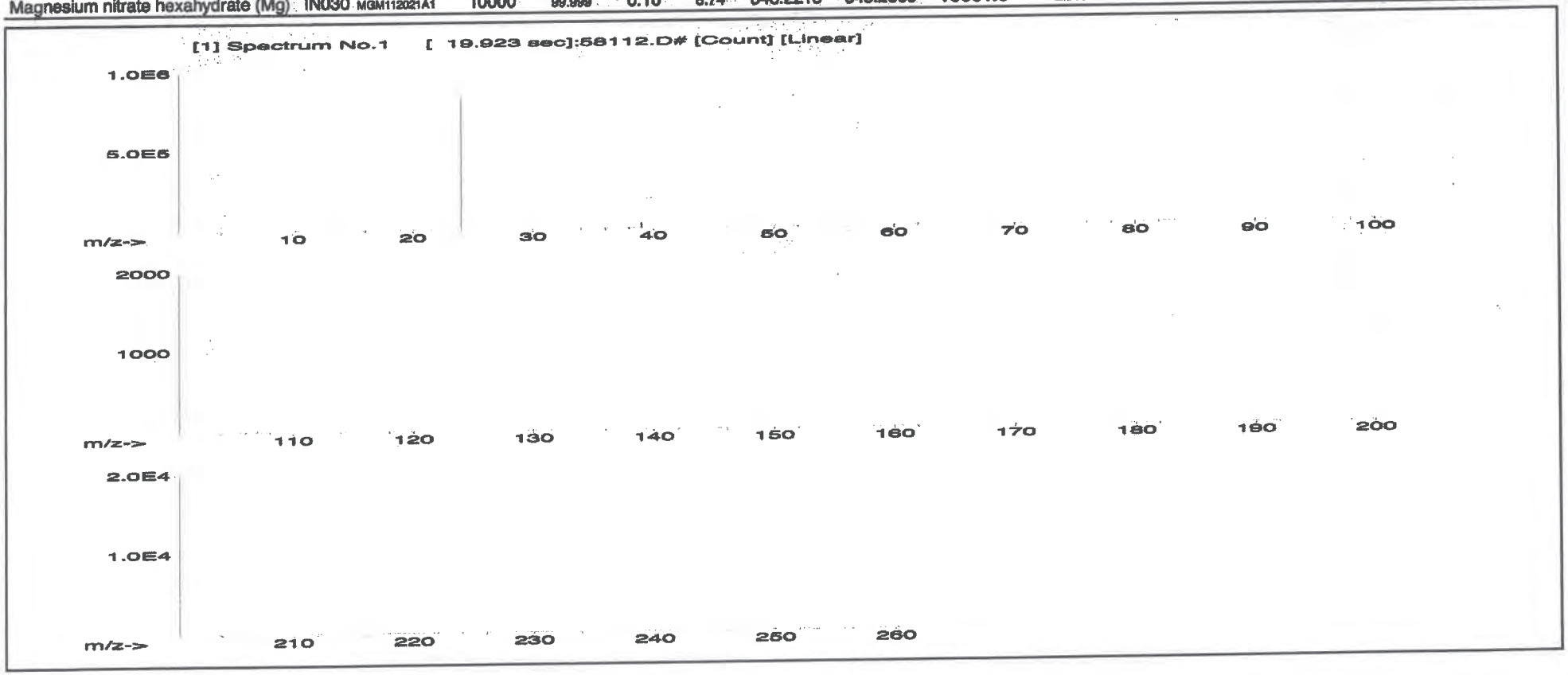
Expiration Date: 120925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

Giovanni Esposito

Formulated By:	Giovanni Esposito	120922
Reviewed By:	Pedro L. Rentas	120922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

683

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

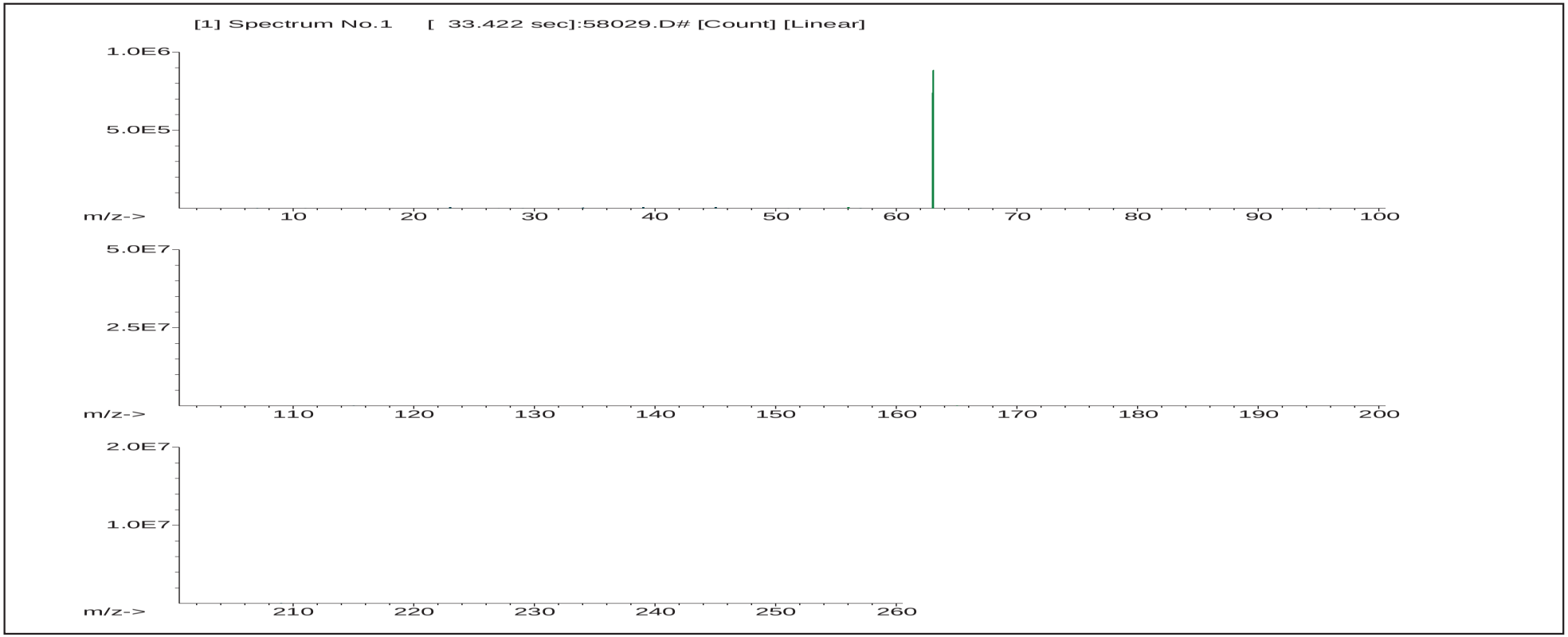
684

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	20510011	Nitric Acid	
Lot Number:	**102622**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102625			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Eli Aliaga	102622
Reviewed By:	Pedro L. Rentas	102622

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



685

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5555 M5556 M5557
M5558

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

M5575 M5576 M5577
M5578 M5579 M5580

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

RE 03/16/23, M5469, M5470, M5471, M5472

707

CERTIFIED WEIGHT REPORT:

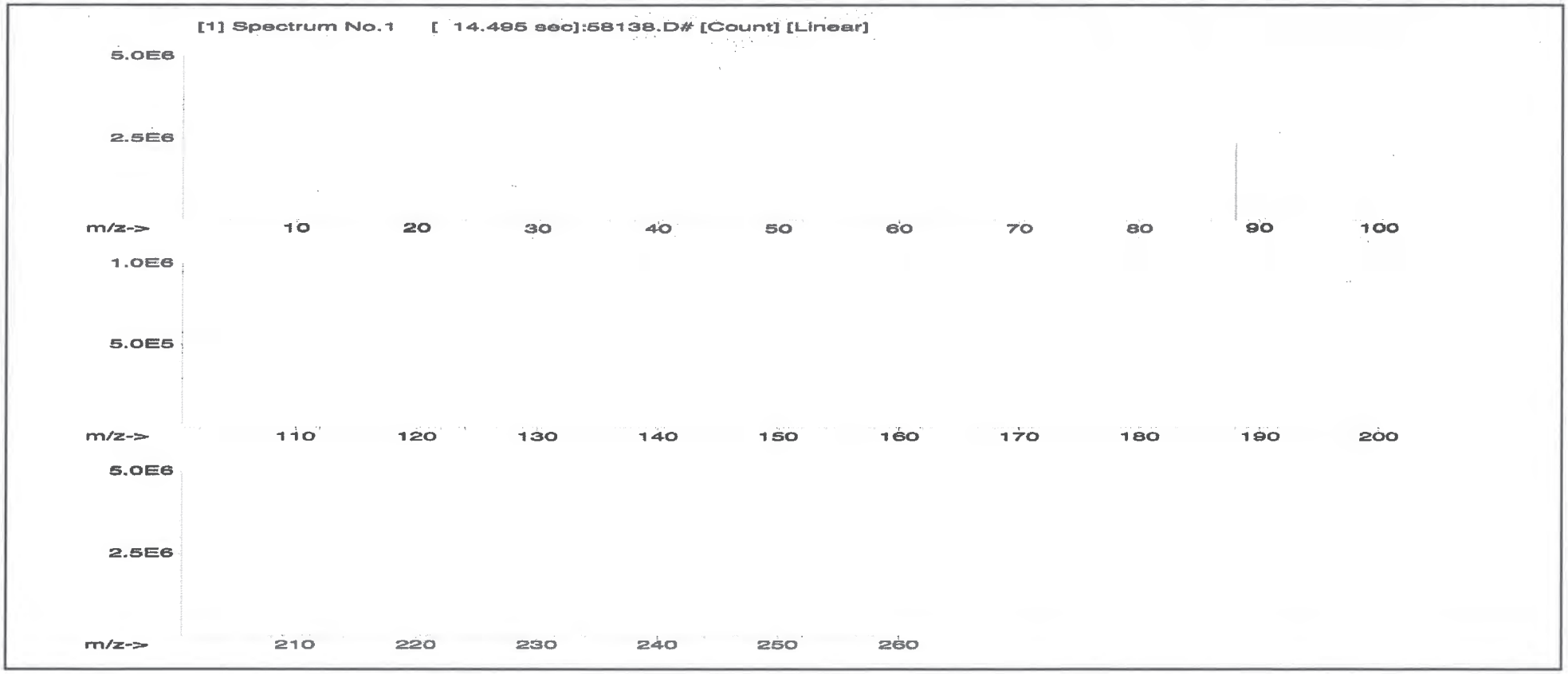
Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



708

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 03/16/23 M5473 M5474, M5475, M5476

709

CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

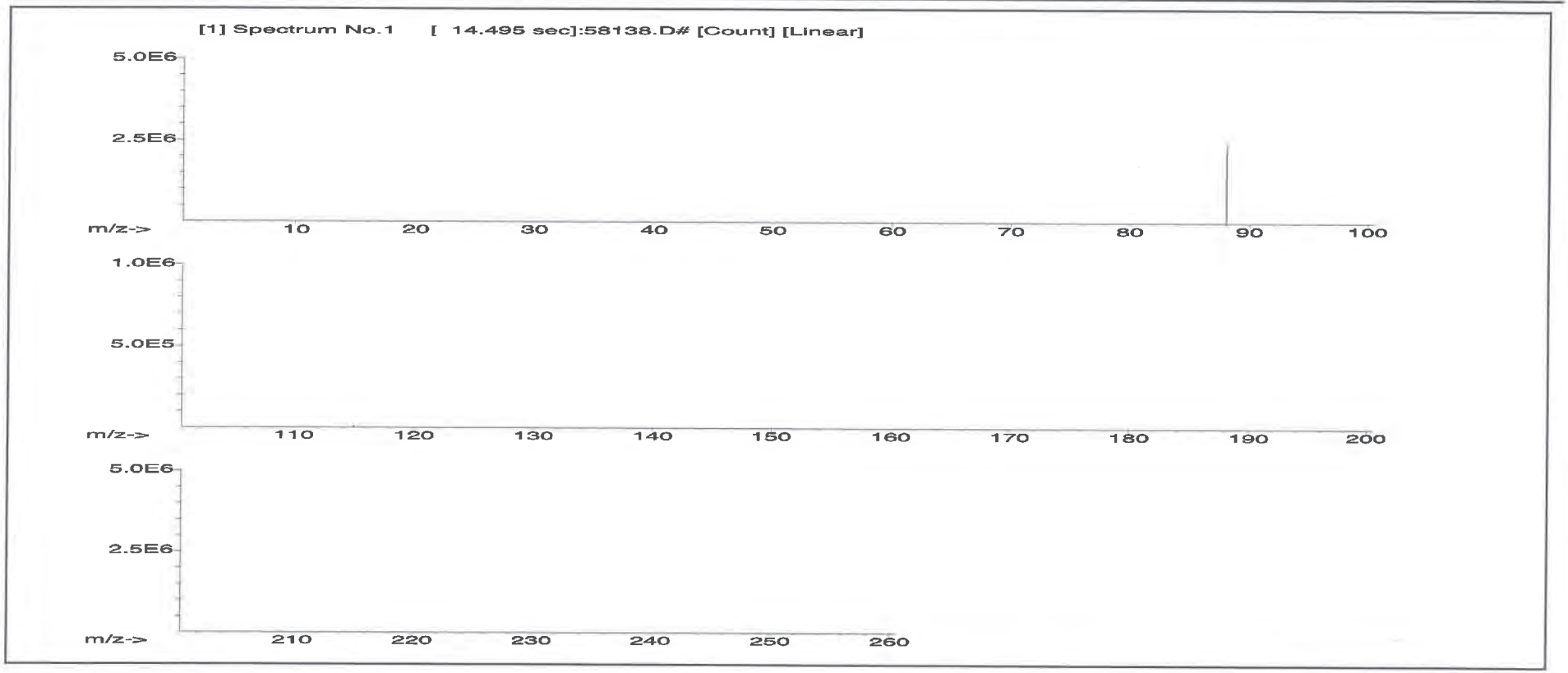
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 082922
Reviewed By: Pedro L. Rentas 082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



710

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153920

SOP ID : M200.8-Trace Elements-21, MSFAM01.1-Metals ICPMS-2

SDG No : MH0F02

Start Digest Date: 06/30/2023 **Time :** 12:30 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 06/30/2023 **Time :** 13:00 **Temp :** 95 °C

Pippete ID: ICP A

Digestion tube ID: M5593

Balance ID : M SC-2

Block thermometer ID: MET-DIG. #3

Filter paper ID : N/A

Dig Technician Signature: AJ

pH Strip ID : N/A

Supervisor Signature: BH

Hood ID : #3

Block ID: **1.** HOT BLOCK#3 **2.** N/A

Temp : **1.** 95°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP75815
Spike Sol. B	1.00	MP75816
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP75962
1:4 HCl Solution	10.00	MP74931
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/30/23 13:10	AJ/Dig. lab	BH / Metals lab
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153920

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
O3446-01	MH0F02	N/A	1.22	500	Brown	Brown	Medium	N/A	N/A	3-1
O3446-02	MH0F02D	N/A	1.27	500	Brown	Brown	Medium	N/A	N/A	2
O3446-03	MH0F02S	N/A	1.32	500	Brown	Brown	Medium	N/A	MP75816	3
O3446-04	MH0F03	N/A	1.26	500	Brown	Brown	Medium	N/A	N/A	4
O3446-05	MH0F07	N/A	1.18	500	Brown	Brown	Medium	N/A	N/A	5
O3446-06	MH0F08	N/A	1.12	500	Brown	Brown	Medium	N/A	N/A	6
O3446-07	MH0F09	N/A	1.31	500	Brown	Brown	Medium	N/A	N/A	7
O3446-08	MH0F10	N/A	1.18	500	Brown	Brown	Medium	N/A	N/A	8
O3446-09	MH0F11	N/A	1.29	500	Brown	Brown	Medium	N/A	N/A	9
O3446-10	MH0F12	N/A	1.13	500	Brown	Brown	Medium	N/A	N/A	10
O3446-11	MH0F13	N/A	1.09	500	Brown	Brown	Medium	N/A	N/A	11
O3446-12	MH0F14	N/A	1.31	500	Brown	Brown	Medium	N/A	N/A	12
O3446-13	MH0F27	N/A	1.03	500	Brown	Brown	Medium	N/A	N/A	13
O3446-14	MH0F28	N/A	1.18	500	Brown	Brown	Medium	N/A	N/A	14
O3446-15	MH0F29	N/A	1.20	500	Brown	Brown	Medium	N/A	N/A	15
O3446-16	MH0F30	N/A	1.28	500	Brown	Brown	Medium	N/A	N/A	16
O3446-17	MH0F31	N/A	1.25	500	Brown	Brown	Medium	N/A	N/A	17
O3446-18	MH0F32	N/A	1.22	500	Brown	Brown	Medium	N/A	N/A	18
O3446-19	MH0F33	N/A	1.18	500	Brown	Brown	Medium	N/A	N/A	19
O3446-20	MH0F34	N/A	1.19	500	Brown	Brown	Medium	N/A	N/A	20
O3446-21	MH0F35	N/A	1.46	500	Brown	Brown	Medium	N/A	N/A	21
O3446-22	MH0F36	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	22
PB153920BL	PBS920	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	23
PB153920BS	LCS920	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP75815	24

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE075	TUNE	07/12/23 09:39		Jaswal	OK
2	S00	S0	CAL1	07/12/23 12:09		Jaswal	OK
3	S02	S02	CAL3	07/12/23 12:12		Jaswal	OK
4	S03	S03	CAL4	07/12/23 12:15		Jaswal	OK
5	S04	S04	CAL5	07/12/23 12:18		Jaswal	OK
6	S05	S05	CAL6	07/12/23 12:21		Jaswal	OK
7	S06	S06	CAL7	07/12/23 12:24		Jaswal	OK
8	S07	S07	CAL8	07/12/23 12:27		Jaswal	OK
9	S08	S08	CAL9	07/12/23 12:30		Jaswal	OK
10	ICV075	ICV075	ICV	07/12/23 13:14		Jaswal	OK
11	ICB075	ICB075	ICB	07/12/23 13:17		Jaswal	OK
12	ICSA075	ICSA075	ICSA	07/12/23 13:20		Jaswal	OK
13	ICSAB075	ICSAB075	ICSAB	07/12/23 13:23		Jaswal	OK
14	CCV023	CCV023	CCV	07/12/23 13:26	%RSD Fail For Ca	Jaswal	OK
15	CCB023	CCB023	CCB	07/12/23 13:29		Jaswal	OK
16	PB154039BL	PBW039	MB	07/12/23 13:32	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
17	PB154039BS	LCS039	LCS	07/12/23 13:35	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
18	O3524-01	MH0F96	SAM	07/12/23 13:38	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
19	O3524-02	MH0F97	SAM	07/12/23 13:41	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
20	O3524-03	MH0F97D	DUP	07/12/23 13:44	CCV023 %RSD Fail For Ca	Jaswal	Not Ok

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

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ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

21	O3524-02L	MH0F97L	SD	07/12/23 13:47	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
22	O3524-04	MH0F97S	MS	07/12/23 13:50	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
23	O3524-05	MH0F98	SAM	07/12/23 13:53	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
24	O3524-06	MH0F99	SAM	07/12/23 13:56	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
25	O3524-07	MH0FA0	SAM	07/12/23 13:59	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
26	PB153920BL	PBS920	MB	07/12/23 14:05		Jaswal	OK
27	PB153920BS	LCS920	LCS	07/12/23 14:09		Jaswal	OK
28	O3446-01	MH0F02	SAM	07/12/23 14:12	0.055ml	Jaswal	OK
29	O3446-02	MH0F02D	DUP	07/12/23 14:15		Jaswal	OK
30	O3446-01L	MH0F02L	SD	07/12/23 14:18		Jaswal	OK
31	O3446-03	MH0F02S	MS	07/12/23 14:21	MS Fail For AS	Jaswal	OK
32	O3446-04	MH0F03	SAM	07/12/23 14:24		Jaswal	OK
33	O3446-05	MH0F07	SAM	07/12/23 14:27		Jaswal	OK
34	O3446-06	MH0F08	SAM	07/12/23 14:30		Jaswal	OK
35	O3446-07	MH0F09	SAM	07/12/23 14:33		Jaswal	OK
36	O3446-08	MH0F10	SAM	07/12/23 14:35		Jaswal	OK
37	O3446-09	MH0F11	SAM	07/12/23 14:38		Jaswal	OK
38	O3446-10	MH0F12	SAM	07/12/23 14:41		Jaswal	OK
39	O3446-11	MH0F13	SAM	07/12/23 14:44		Jaswal	OK
40	O3446-12	MH0F14	SAM	07/12/23 14:47		Jaswal	OK
41	O3446-13	MH0F27	SAM	07/12/23 14:50		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

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CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

42	O3446-14	MH0F28	SAM	07/12/23 14:53		Jaswal	OK
43	O3446-15	MH0F29	SAM	07/12/23 14:56		Jaswal	OK
44	CCV024	CCV024	CCV	07/12/23 15:05		Jaswal	OK
45	CCB024	CCB024	CCB	07/12/23 15:08		Jaswal	OK
46	O3446-16	MH0F30	SAM	07/12/23 15:11		Jaswal	OK
47	O3446-17	MH0F31	SAM	07/12/23 15:14		Jaswal	OK
48	O3446-18	MH0F32	SAM	07/12/23 15:17		Jaswal	OK
49	O3446-19	MH0F33	SAM	07/12/23 15:20		Jaswal	OK
50	O3446-20	MH0F34	SAM	07/12/23 15:23		Jaswal	OK
51	O3446-21	MH0F35	SAM	07/12/23 15:26		Jaswal	OK
52	O3446-22	MH0F36	SAM	07/12/23 15:29		Jaswal	OK
53	O3446-01A	MH0F02A	PS	07/12/23 15:32	PS For As(0.055ml mp76208-10ml sample)	Jaswal	OK
54	PB153921BL	PBS921	MB	07/12/23 15:38		Jaswal	OK
55	PB153921BS	LCS921	LCS	07/12/23 15:41		Jaswal	OK
56	O3447-01	MH0F15	SAM	07/12/23 15:44		Jaswal	OK
57	O3447-02	MH0F16	SAM	07/12/23 15:47		Jaswal	OK
58	O3447-03	MH0F17	SAM	07/12/23 15:50	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
59	O3447-04	MH0F18	SAM	07/12/23 15:53	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
60	O3447-05	MH0F21	SAM	07/12/23 15:56		Jaswal	OK
61	O3447-06	MH0F22	SAM	07/12/23 15:59		Jaswal	OK
62	O3447-07	MH0F23	SAM	07/12/23 16:02		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

63	O3447-08	MH0F23D	DUP	07/12/23 16:05		Jaswal	OK
64	O3447-07L	MH0F23L	SD	07/12/23 16:08		Jaswal	OK
65	O3447-09	MH0F23S	MS	07/12/23 16:11	MS Fail For Zn	Jaswal	OK
66	O3447-10	MH0F24	SAM	07/12/23 16:14		Jaswal	OK
67	O3447-11	MH0F25	SAM	07/12/23 16:17		Jaswal	OK
68	O3447-12	MH0F26	SAM	07/12/23 16:20		Jaswal	OK
69	O3447-13	MH0F37	SAM	07/12/23 16:23		Jaswal	OK
70	O3447-14	MH0F38	SAM	07/12/23 16:26		Jaswal	OK
71	O3447-15	MH0F39	SAM	07/12/23 16:29		Jaswal	OK
72	O3447-16	MH0F40	SAM	07/12/23 16:32		Jaswal	OK
73	O3447-17	MH0F45	SAM	07/12/23 16:35		Jaswal	OK
74	O3447-18	MH0F46	SAM	07/12/23 16:38		Jaswal	OK
75	CCV025	CCV025	CCV	07/12/23 16:50		Jaswal	OK
76	CCB025	CCB025	CCB	07/12/23 16:54		Jaswal	OK
77	O3447-19	MH0F47	SAM	07/12/23 16:57		Jaswal	OK
78	O3447-20	MH0F48	SAM	07/12/23 17:00		Jaswal	OK
79	O3447-21	MH0F49	SAM	07/12/23 17:03		Jaswal	OK
80	O3447-22	MH0F50	SAM	07/12/23 17:06		Jaswal	OK
81	O3447-03DL	MH0F17	SAM	07/12/23 17:09	2X For INT_STD 89Y(1&2)	Jaswal	Confirms
82	O3447-04DL	MH0F18	SAM	07/12/23 17:12	2X For INT_STD 89Y(1&2)	Jaswal	Confirms
83	O3447-07A	MH0F23A	PS	07/12/23 17:14	PS For Zn(0.0046ml m4891-10ml sample)	Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

84	PB153993BL	PBS993	MB	07/12/23 17:19		Jaswal	OK
85	PB153993BS	LCS993	LCS	07/12/23 17:22		Jaswal	OK
86	O3448-12	MH0F68	SAM	07/12/23 17:26		Jaswal	OK
87	O3448-13	MH0F68D	DUP	07/12/23 17:28		Jaswal	OK
88	O3448-12L	MH0F68L	SD	07/12/23 17:31		Jaswal	OK
89	O3448-14	MH0F68S	MS	07/12/23 17:34		Jaswal	OK
90	O3448-05	MH0F57	SAM	07/12/23 17:37		Jaswal	OK
91	O3448-06	MH0F58	SAM	07/12/23 17:41		Jaswal	OK
92	O3448-07	MH0F59	SAM	07/12/23 17:44		Jaswal	OK
93	O3448-08	MH0F60	SAM	07/12/23 17:47		Jaswal	OK
94	O3448-09	MH0F61	SAM	07/12/23 17:50		Jaswal	OK
95	O3448-10	MH0F62	SAM	07/12/23 17:52		Jaswal	OK
96	O3448-11	MH0F63	SAM	07/12/23 17:55		Jaswal	OK
97	O3448-01	MH0F51	SAM	07/12/23 17:58		Jaswal	OK
98	O3448-02	MH0F54	SAM	07/12/23 18:01		Jaswal	OK
99	O3448-03	MH0F55	SAM	07/12/23 18:04		Jaswal	OK
100	O3448-04	MH0F56	SAM	07/12/23 18:07		Jaswal	OK
101	O3448-15	MH0F69	SAM	07/12/23 18:10		Jaswal	OK
102	O3448-16	MH0F70	SAM	07/12/23 18:13		Jaswal	OK
103	O3448-17	MH0F71	SAM	07/12/23 18:16		Jaswal	OK
104	O3448-18	MH0F72	SAM	07/12/23 18:19		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

105	O3448-19	MH0F73	SAM	07/12/23 18:22		Jaswal	OK
106	CCV026	CCV026	CCV	07/12/23 18:44		Jaswal	OK
107	CCB026	CCB026	CCB	07/12/23 18:48		Jaswal	OK
108	O3448-20	MH0F74	SAM	07/12/23 18:51		Jaswal	OK
109	O3448-21	MH0F75	SAM	07/12/23 18:54		Jaswal	OK
110	O3448-22	MH0F76	SAM	07/12/23 18:56		Jaswal	OK
111	PB153966BL	PBS966	MB	07/12/23 19:01		Jaswal	OK
112	PB153966BS	LCS966	LCS	07/12/23 19:04		Jaswal	OK
113	O3433-04	MJVA92	SAM	07/12/23 19:07		Jaswal	OK
114	O3433-05	MJVA92D	DUP	07/12/23 19:10		Jaswal	OK
115	O3433-04L	MJVA92L	SD	07/12/23 19:13		Jaswal	OK
116	O3433-06	MJVA92S	MS	07/12/23 19:16		Jaswal	OK
117	O3450-04	MH0F80	SAM	07/12/23 19:19		Jaswal	OK
118	O3450-05	MH0F80D	DUP	07/12/23 19:22		Jaswal	OK
119	O3450-04L	MH0F80L	SD	07/12/23 19:25		Jaswal	OK
120	O3450-06	MH0F80S	MS	07/12/23 19:28		Jaswal	OK
121	O3449-01	MH0F81	SAM	07/12/23 19:31		Jaswal	OK
122	O3449-02	MH0F81D	DUP	07/12/23 19:34		Jaswal	OK
123	O3449-01LRE	MH0F81L	SD	07/12/23 19:37	Not Use	Jaswal	Not Ok
124	O3449-03	MH0F81S	MS	07/12/23 19:40	MS Fail For Ba	Jaswal	OK
125	O3449-01L	MH0F81L	SD	07/12/23 19:43		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

126	O3433-01	MJVA80	SAM	07/12/23 19:46		Jaswal	OK
127	O3433-02	MJVA90	SAM	07/12/23 19:49		Jaswal	OK
128	O3433-03	MJVA91	SAM	07/12/23 19:52		Jaswal	OK
129	O3450-01	MH0F01	SAM	07/12/23 19:55		Jaswal	OK
130	O3450-02	MH0F05	SAM	07/12/23 19:58		Jaswal	OK
131	O3450-03	MH0F06	SAM	07/12/23 20:01		Jaswal	OK
132	O3449-04	MH0F82	SAM	07/12/23 20:04		Jaswal	OK
133	O3449-05	MH0F83	SAM	07/12/23 20:07		Jaswal	OK
134	O3449-06	MH0F84	SAM	07/12/23 20:10		Jaswal	OK
135	O3449-07	MH0F85	SAM	07/12/23 20:13		Jaswal	OK
136	O3449-08	MH0F86	SAM	07/12/23 20:16		Jaswal	OK
137	CCV027	CCV027	CCV	07/12/23 20:32		Jaswal	OK
138	CCB027	CCB027	CCB	07/12/23 20:36		Jaswal	OK
139	O3449-09	MH0F87	SAM	07/12/23 20:39		Jaswal	OK
140	O3449-10	MH0F88	SAM	07/12/23 20:42		Jaswal	OK
141	O3433-04A	MJVA92A	PS	07/12/23 20:45	Not Required	Jaswal	Not Ok
142	O3449-01A	MH0F81A	PS	07/12/23 20:48	PS For Ba(0.0082ml m5387-10ml sample)	Jaswal	OK
143	CCV028	CCV028	CCV	07/12/23 20:55		Jaswal	OK
144	CCB028	CCB028	CCB	07/12/23 20:58		Jaswal	OK

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 46.60 LB
CAD: 6754017/SSF02422
DIMS: 24x14x13 IN
BILL THIRD PARTY

Part # 156287-430-BRRB2/EXP05/24

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24
INV:
PO: DEPT:

CR
6/27/23
13:30
17.8°C

FedEx Express

AM1405230423221

1 of 6

TRK# 0201 7802 8789 1515

MASTER

TE KBCA

TUE - 27 JUN 4:30P
** 2DAY **

07092
NJ-US EWR

Copy
Original Documents are included in CSF MIAQF02

Signature

6/27/23
Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 44.10 LB
CAD: 6754017/SSF02422
DIMS: 25x14x14 IN

BILL THIRD PARTY

Part # 156287-495-RRDRD-FRDS-06/24

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24
INV:
PO: DEPT:

6/27/23
13:30
20.1-C

FedEx Express

E

TUE - 27 JUN 4:30P
** 2DAY **

3 of 6
MPS# 0263 7802 8789 1537
Mstr# 7802 8789 1515 0201

TE KBCA

07092
NJ-US EWR

Copy
Original Documents are included in CSF MHQFQL

Signature

6/27/23
Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 24.95 LB
CAD: 6754017/SSF02422
DIMS: 26x14x14 IN

BILL THIRD PARTY

Part # 158297-405-FEDEX02-E26050524

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140

INV:
PO:

REF: HIGHWAY 24

DEPT:

cl.
6/27/23
13:30
21.2°C

FedEx Express

J23202304050 1uv

4 of 6

MPS# 0263 **7802 8789 1548**

Mstr# 7802 8789 1515

0201

TE KBCA

TUE - 27 JUN 4:30P
**** 2DAY ****

07092
NJ-US **EWR**

Copy

Original Documents are included in CSF MHDCA2

Signature

6/27/23

Date

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3446	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Sohil
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	6/30/2023 9:37:14 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3446-01	MH0F02	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-02	MH0F02D	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-03	MH0F02S	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-04	MH0F03	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-05	MH0F07	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-06	MH0F08	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-07	MH0F09	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-08	MH0F10	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-09	MH0F11	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-10	MH0F12	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

O3446-11	MH0F13	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-12	MH0F14	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-13	MH0F27	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-14	MH0F28	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-15	MH0F29	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-16	MH0F30	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-17	MH0F31	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-18	MH0F32	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-19	MH0F33	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-20	MH0F34	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-21	MH0F35	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3446-22	MH0F36	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153920 **WorkList ID :** 171515 **Department :** Digestion **Date :** 06-30-2023 10:39:32

725

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3446-01	MH0F02	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-02	MH0F02D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-03	MH0F02S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-04	MH0F03	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-05	MH0F07	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-06	MH0F08	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-07	MH0F09	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-08	MH0F10	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-09	MH0F11	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-10	MH0F12	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-11	MH0F13	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-12	MH0F14	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-13	MH0F27	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/12/2023	SFAM_MS
O3446-14	MH0F28	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/12/2023	SFAM_MS
O3446-15	MH0F29	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/12/2023	SFAM_MS
O3446-16	MH0F30	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/12/2023	SFAM_MS
O3446-17	MH0F31	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-18	MH0F32	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-19	MH0F33	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-20	MH0F34	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS
O3446-21	MH0F35	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS

Date/Time 6/30/23 11:30

Raw Sample Received by: AH/Dig. Lab

Raw Sample Relinquished by: IT (SM)

Date/Time 6/30/23 12:45

Raw Sample Received by: IT (SM)

Raw Sample Relinquished by: AH/Dig. Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153920 **WorkList ID :** 171515 **Department :** Digestion **Date :** 06-30-2023 10:39:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3446-22	MH0F36	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B23	06/13/2023	SFAM_MS

Date/Time 6/30/23 11:30
Raw Sample Received by: AHBigLab
Raw Sample Relinquished by: JT (SM)

Date/Time 6/30/23 12:45
Raw Sample Received by: JT (SM)
Raw Sample Relinquished by: AHBigLab

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0F15

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0F15	O3447-01		X		
MH0F16	O3447-02		X		
MH0F17	O3447-03		X		
MH0F18	O3447-04		X		
MH0F21	O3447-05		X		
MH0F22	O3447-06		X		
MH0F23	O3447-07		X		
MH0F23D	O3447-08		X		
MH0F23S	O3447-09		X		
MH0F24	O3447-10		X		
MH0F25	O3447-11		X		
MH0F26	O3447-12		X		
MH0F37	O3447-13		X		
MH0F38	O3447-14		X		
MH0F39	O3447-15		X		
MH0F40	O3447-16		X		
MH0F45	O3447-17		X		
MH0F46	O3447-18		X		
MH0F47	O3447-19		X		
MH0F48	O3447-20		X		
MH0F49	O3447-21		X		
MH0F50	O3447-22		X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name: APPROVED

By Nimisha Pandya QA/QC Supervisor at 11:49 am, Jul 17, 2023

Date: 7/17/2023 Title:

68HERH20D0011 SDG # MH0F15

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS06-0-1	MH0F15	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1051, 1052 (2)	06A	06/12/2023 14:57	1 ~~1~~ 1
HWY-SS06-1-6	MH0F16	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1054, 1055 (2)	06A	06/12/2023 14:57	1 ~~2~~ 2
HWY-SS07-0-1	MH0F17	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1057, 1058 (2)	7	06/13/2023 12:10	1 ~~3~~ 3
HWY-SS07-1-6	MH0F18	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1060, 1061 (2)	7	06/13/2023 12:10	1 ~~4~~ 4
HWY-SS10-0-1	MH0F21	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1069, 1070 (2)	10	06/13/2023 09:15	2 ~~4~~ 5
HWY-SS10-1-6	MH0F22	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1072, 1073 (2)	10	06/13/2023 09:15	2 ~~5~~ 6
HWY-SS11-0-1	MH0F23	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1075, 1076 (2)	11	06/13/2023 10:00	2 7 ~~6~~ 6
HWY-SS11-1-6	MH0F24	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1078, 1079 (2)	11	06/13/2023 10:00	2 ~~8~~ 6
HWY-SS12-0-1	MH0F25	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1081, 1082 (2)	12	06/12/2023 10:31	2 ~~9~~ 9
HWY-SS12-1-6	MH0F26	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1084, 1085 (2)	12	06/12/2023 10:30	2 ~~10~~ 10

Sample(s) to be used for Lab QC: HWY-SS11-0-1 Tag 1075, HWY-SS11-0-1 Tag 1076, HWY-SS11-1-6 Tag 1078, HWY-SS11-1-6 Tag 1079	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	IR-Gun #1
					Custody Seal Intact
					No temp Blank
					17.8°, 20.1°, 21.2°, 19.3°, 19.1°

68HERH20D0011 SDG # MH0F15

USEPA CLP COC (LAB COPY)
DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002
Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS18-0-1	MH0F37	Soil/ leyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1117, 1118 (2)	18	06/12/2023 11:18	3 11
HWY-SS18-1-6	MH0F38	Soil/ leyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1120, 1121 (2)	18	06/12/2023 11:18	3 12
HWY-SS19-0-1	MH0F39	Soil/ leyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1123, 1124 (2)	19	06/12/2023 11:55	3 13
HWY-SS19-1-6	MH0F40	Soil/ leyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1126, 1127 (2)	19	06/12/2023 11:55	3 14
HWY-SS21-1-6	MH0F45	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1141, 1142 (2)	21	06/12/2023 09:40	3 15
HWY-SS22-0-1	MH0F46	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1143, 1144 (2)	22	06/12/2023 15:18	3 16
HWY-SS22-1-6	MH0F47	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1145, 1146 (2)	22	06/12/2023 15:18	3 17
HWY-SS23-0-1	MH0F48	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1147, 1148 (2)	23	06/13/2023 12:15	3 18
HWY-SS23-1-6	MH0F49	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1149, 1150 (2)	23	06/13/2023 12:15	3 19
HWY-SS24-0-1	MH0F50	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1151, 1152 (2)	24	06/13/2023 08:40	3 20

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[signature]	6/23/23 1700	[signature]	13:30 6/27/23	~~FP-Cont~~ 1
					Custody Seal Intact
					No temp Blank
					17.8, 20.1, 21.2, 19.3, 19.1°C

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 3
Received By (Print Name) Cassanova Reña		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F15	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891515 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	17.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH0F15	N/A	1051,52	O3447-01	Intact
2	MH0F16	N/A	1054,55	O3447-02	Intact
3	MH0F17	N/A	1057,58	O3447-03	Intact
4	MH0F18	N/A	1060,61	O3447-04	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 2 of 3
Received By (Print Name) Roganova Rerie		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F15	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891537 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	20.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F21	N/A	1069,70	O3447-05	Intact
2	MH0F22	N/A	1072,73	O3447-06	Intact
3	MH0F23	N/A	1075,76	O3447-07	Intact
4	MH0F23D	N/A	1075,76	O3447-08	Intact
5	MH0F23S	N/A	1075,76	O3447-09	Intact
6	MH0F24	N/A	1078,79	O3447-10	Intact
7	MH0F25	N/A	1081,82	O3447-11	Intact
8	MH0F26	N/A	1084,85	O3447-12	Intact
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 3 of 3
Received By (Print Name) Casanova		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F15	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891548 3
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	21.2 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F37	N/A	1117,18	O3447-13	Intact
2	MH0F38	N/A	1120,21	O3447-14	Intact
3	MH0F39	N/A	1123,24	O3447-15	Intact
4	MH0F40	N/A	1126,27	O3447-16	Intact
5	MH0F45	N/A	1141,42	O3447-17	Intact
6	MH0F46	N/A	1143,44	O3447-18	Intact
7	MH0F47	N/A	1145,46	O3447-19	Intact
8	MH0F48	N/A	1147,48	O3447-20	Intact
9	MH0F49	N/A	1149,50,	O3447-21	Intact
10	MH0F50	N/A	1151,52	O3447-22	Intact
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0F15**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	6	✓	
4 . CSF Inventory Sheet (DC-2)	7	9	✓	
5 . SDG Narrative	10	13	✓	
6 . Communication Logs	14	35	✓	
7 . Percent Solids Log	36	38	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	39	58	✓	
18 . Instrument raw data by instrument in analysis order	59	740	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	741	888	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	889	890	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	891	897	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 3)	898	900	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	901	902	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	903	904	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)	N. N. Pandya (Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	7/17/2023 (Date)
Audited by: (EPA)	(Signature)	(Print Name & Title)	(Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0F15
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3447

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Metals CLP MS Full = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium & Zinc.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**
Cooler: 17.8^{o}C, 20.1^{o}C, 21.2^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 3: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Issue 4: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 5: Air bill numbers are missing on all COCs.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 4: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 5: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0F15 for Arsenic:

If C = 18.81 ppb
Vf = 500 ml
W = 1.48 g
S = 1(100/100)
DF = 1

$$\text{Concentration (mg/kg)} = 18.81 \times \frac{500}{1.48 \times 1} \times 1 / 1000$$

$$= 6.3547 \text{ mg/kg}$$

$$= 6.4 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Internal standard 89Y(1&2) was out Side qc limit for samples MH0F17, MH0F18 in Original so for these samples affected parameters are reported from 2X Dilution.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya

Name: Nimisha Pandya

Date 7/17/2023

Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett'; Britz, Helen; Gambrah, Derrick
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL
Attachments: Revised COC_8-061523-134849-0002_v20230707.pdf

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247

303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick

Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen'

<Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
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303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,
Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356

Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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T 703.995.5356
Samantha.Sosko@gdit.com
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

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Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

CHEMTECH

PERCENT SOLID

Supervisor: Sohil
Analyst: JIGNESH
Date: 7/12/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 14:05
In Date: 06/30/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:40
Out Date: 07/01/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126267

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3447-01	MH0F15	1	1.00	1.00	2.00	2.00	100.0	
O3447-02	MH0F16	2	1.00	1.00	2.00	2.00	100.0	
O3447-03	MH0F17	3	1.00	1.00	2.00	2.00	100.0	
O3447-04	MH0F18	4	1.00	1.00	2.00	2.00	100.0	
O3447-05	MH0F21	5	1.00	1.00	2.00	2.00	100.0	
O3447-06	MH0F22	6	1.00	1.00	2.00	2.00	100.0	
O3447-07	MH0F23	7	1.00	1.00	2.00	2.00	100.0	
O3447-08	MH0F23D	8	1.00	1.00	2.00	2.00	100.0	
O3447-09	MH0F23S	9	1.00	1.00	2.00	2.00	100.0	
O3447-10	MH0F24	10	1.00	1.00	2.00	2.00	100.0	
O3447-11	MH0F25	11	1.00	1.00	2.00	2.00	100.0	
O3447-12	MH0F26	12	1.00	1.00	2.00	2.00	100.0	
O3447-13	MH0F37	13	1.00	1.00	2.00	2.00	100.0	
O3447-14	MH0F38	14	1.00	1.00	2.00	2.00	100.0	
O3447-15	MH0F39	15	1.00	1.00	2.00	2.00	100.0	
O3447-16	MH0F40	16	1.00	1.00	2.00	2.00	100.0	
O3447-17	MH0F45	17	1.00	1.00	2.00	2.00	100.0	
O3447-18	MH0F46	18	1.00	1.00	2.00	2.00	100.0	
O3447-19	MH0F47	19	1.00	1.00	2.00	2.00	100.0	
O3447-20	MH0F48	20	1.00	1.00	2.00	2.00	100.0	
O3447-21	MH0F49	21	1.00	1.00	2.00	2.00	100.0	
O3447-22	MH0F50	22	1.00	1.00	2.00	2.00	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WB 126267

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3447 **WorkList ID :** 171512 **Department :** Wet-Chemistry **Date :** 06-30-2023 10:32:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3447-01	MH0F15	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-02	MH0F16	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-03	MH0F17	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-04	MH0F18	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-05	MH0F21	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-06	MH0F22	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-07	MH0F23	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-08	MH0F23D	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-09	MH0F23S	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-10	MH0F24	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-11	MH0F25	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-12	MH0F26	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-13	MH0F37	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-14	MH0F38	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-15	MH0F39	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-16	MH0F40	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-17	MH0F45	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-18	MH0F46	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-19	MH0F47	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/12/2023	Chemtech -SO
O3447-20	MH0F48	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO
O3447-21	MH0F49	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO

37

Date/Time 06/30/23 13:00

Raw Sample Received by: JD/WC

Raw Sample Relinquished by: CP SM

Date/Time 06/30/23 14:10

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JD/WC

VB 126267

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3447 **WorkList ID :** 171512 **Department :** Wet-Chemistry **Date :** 06-30-2023 10:32:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3447-22	MH0F50	Solid	Percent Solids	Cool 4 deg C	USEP01	B21	06/13/2023	Chemtech -SO

38

Date/Time 06/30/23 13:00
Raw Sample Received by: JD (WC)
Raw Sample Relinquished by: CP Smi

Date/Time 06/30/23 14:10
Raw Sample Received by: CP Smi
Raw Sample Relinquished by: JD (WC)

EPA SAMPLE NO.

MH0F15

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-01

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.14	J	07/12/2023	1544
7440-38-2	Arsenic	6.4		07/12/2023	1544
7440-39-3	Barium	130		07/12/2023	1544
7440-41-7	Beryllium	0.43		07/12/2023	1544
7440-43-9	Cadmium	0.27	J	07/12/2023	1544
7440-47-3	Chromium	7.9		07/12/2023	1544
7440-48-4	Cobalt	4.6		07/12/2023	1544
7440-50-8	Copper	11		07/12/2023	1544
7439-92-1	Lead	18		07/12/2023	1544
7439-96-5	Manganese	230		07/12/2023	1544
7440-02-0	Nickel	9.3		07/12/2023	1544
7782-49-2	Selenium	1.7	U	07/12/2023	1544
7440-22-4	Silver	0.095	J	07/12/2023	1544
7440-28-0	Thallium	0.14	J	07/12/2023	1544
7440-62-2	Vanadium	19		07/12/2023	1544
7440-66-6	Zinc	57	*	07/12/2023	1544

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F16

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-02

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.16	J	07/12/2023	1547
7440-38-2	Arsenic	8.8		07/12/2023	1547
7440-39-3	Barium	140		07/12/2023	1547
7440-41-7	Beryllium	0.45		07/12/2023	1547
7440-43-9	Cadmium	0.33	J	07/12/2023	1547
7440-47-3	Chromium	8.1		07/12/2023	1547
7440-48-4	Cobalt	5.3		07/12/2023	1547
7440-50-8	Copper	11		07/12/2023	1547
7439-92-1	Lead	21		07/12/2023	1547
7439-96-5	Manganese	250		07/12/2023	1547
7440-02-0	Nickel	11		07/12/2023	1547
7782-49-2	Selenium	0.36	J	07/12/2023	1547
7440-22-4	Silver	0.12	J	07/12/2023	1547
7440-28-0	Thallium	0.14	J	07/12/2023	1547
7440-62-2	Vanadium	21		07/12/2023	1547
7440-66-6	Zinc	56	*	07/12/2023	1547

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F17

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-03

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.14	J	07/12/2023	1550
7440-38-2	Arsenic	7.6	D	07/12/2023	1709
7440-39-3	Barium	260		07/12/2023	1550
7440-41-7	Beryllium	2.2		07/12/2023	1550
7440-43-9	Cadmium	0.63		07/12/2023	1550
7440-47-3	Chromium	6.6		07/12/2023	1550
7440-48-4	Cobalt	5.9		07/12/2023	1550
7440-50-8	Copper	13		07/12/2023	1550
7439-92-1	Lead	34		07/12/2023	1550
7439-96-5	Manganese	1500		07/12/2023	1550
7440-02-0	Nickel	10		07/12/2023	1550
7782-49-2	Selenium	1.3	JD	07/12/2023	1709
7440-22-4	Silver	0.13	J	07/12/2023	1550
7440-28-0	Thallium	0.23	J	07/12/2023	1550
7440-62-2	Vanadium	18		07/12/2023	1550
7440-66-6	Zinc	150	*	07/12/2023	1550

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F18

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-04

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.12	J	07/12/2023	1553
7440-38-2	Arsenic	7.6	D	07/12/2023	1712
7440-39-3	Barium	240		07/12/2023	1553
7440-41-7	Beryllium	2.0		07/12/2023	1553
7440-43-9	Cadmium	0.65		07/12/2023	1553
7440-47-3	Chromium	5.9		07/12/2023	1553
7440-48-4	Cobalt	5.1		07/12/2023	1553
7440-50-8	Copper	11		07/12/2023	1553
7439-92-1	Lead	31		07/12/2023	1553
7439-96-5	Manganese	1300		07/12/2023	1553
7440-02-0	Nickel	9.1		07/12/2023	1553
7782-49-2	Selenium	1.2	JD	07/12/2023	1712
7440-22-4	Silver	0.13	J	07/12/2023	1553
7440-28-0	Thallium	0.22	J	07/12/2023	1553
7440-62-2	Vanadium	16		07/12/2023	1553
7440-66-6	Zinc	130	*	07/12/2023	1553

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F21

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-05

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.29	J	07/12/2023	1556
7440-38-2	Arsenic	18		07/12/2023	1556
7440-39-3	Barium	180		07/12/2023	1556
7440-41-7	Beryllium	0.80		07/12/2023	1556
7440-43-9	Cadmium	0.89		07/12/2023	1556
7440-47-3	Chromium	11		07/12/2023	1556
7440-48-4	Cobalt	9.8		07/12/2023	1556
7440-50-8	Copper	42		07/12/2023	1556
7439-92-1	Lead	42		07/12/2023	1556
7439-96-5	Manganese	680		07/12/2023	1556
7440-02-0	Nickel	21		07/12/2023	1556
7782-49-2	Selenium	0.83	J	07/12/2023	1556
7440-22-4	Silver	0.25	J	07/12/2023	1556
7440-28-0	Thallium	0.19	J	07/12/2023	1556
7440-62-2	Vanadium	31		07/12/2023	1556
7440-66-6	Zinc	160	*	07/12/2023	1556

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F22

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-06

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.27	J	07/12/2023	1559
7440-38-2	Arsenic	18		07/12/2023	1559
7440-39-3	Barium	120		07/12/2023	1559
7440-41-7	Beryllium	0.65		07/12/2023	1559
7440-43-9	Cadmium	0.69		07/12/2023	1559
7440-47-3	Chromium	7.9		07/12/2023	1559
7440-48-4	Cobalt	10		07/12/2023	1559
7440-50-8	Copper	35		07/12/2023	1559
7439-92-1	Lead	37		07/12/2023	1559
7439-96-5	Manganese	850		07/12/2023	1559
7440-02-0	Nickel	22		07/12/2023	1559
7782-49-2	Selenium	0.82	J	07/12/2023	1559
7440-22-4	Silver	0.27	J	07/12/2023	1559
7440-28-0	Thallium	0.15	J	07/12/2023	1559
7440-62-2	Vanadium	25		07/12/2023	1559
7440-66-6	Zinc	120	*	07/12/2023	1559

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F23

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-07

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.28	J	07/12/2023	1602
7440-38-2	Arsenic	6.8		07/12/2023	1602
7440-39-3	Barium	130		07/12/2023	1602
7440-41-7	Beryllium	1.1		07/12/2023	1602
7440-43-9	Cadmium	0.61		07/12/2023	1602
7440-47-3	Chromium	6.2		07/12/2023	1602
7440-48-4	Cobalt	4.5		07/12/2023	1602
7440-50-8	Copper	12		07/12/2023	1602
7439-92-1	Lead	40		07/12/2023	1602
7439-96-5	Manganese	240		07/12/2023	1602
7440-02-0	Nickel	9.0		07/12/2023	1602
7782-49-2	Selenium	0.57	J	07/12/2023	1602
7440-22-4	Silver	0.23	J	07/12/2023	1602
7440-28-0	Thallium	0.096	J	07/12/2023	1602
7440-62-2	Vanadium	17		07/12/2023	1602
7440-66-6	Zinc	100	*	07/12/2023	1602

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F24

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-10

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.19	J	07/12/2023	1614
7440-38-2	Arsenic	6.5		07/12/2023	1614
7440-39-3	Barium	140		07/12/2023	1614
7440-41-7	Beryllium	1.6		07/12/2023	1614
7440-43-9	Cadmium	0.50		07/12/2023	1614
7440-47-3	Chromium	8.8		07/12/2023	1614
7440-48-4	Cobalt	6.0		07/12/2023	1614
7440-50-8	Copper	17		07/12/2023	1614
7439-92-1	Lead	40		07/12/2023	1614
7439-96-5	Manganese	290		07/12/2023	1614
7440-02-0	Nickel	11		07/12/2023	1614
7782-49-2	Selenium	0.57	J	07/12/2023	1614
7440-22-4	Silver	0.29	J	07/12/2023	1614
7440-28-0	Thallium	0.14	J	07/12/2023	1614
7440-62-2	Vanadium	20		07/12/2023	1614
7440-66-6	Zinc	100	*	07/12/2023	1614

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F25

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-11

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.45	J	07/12/2023	1617
7440-38-2	Arsenic	5.5		07/12/2023	1617
7440-39-3	Barium	140		07/12/2023	1617
7440-41-7	Beryllium	0.65		07/12/2023	1617
7440-43-9	Cadmium	1.2		07/12/2023	1617
7440-47-3	Chromium	12		07/12/2023	1617
7440-48-4	Cobalt	3.8		07/12/2023	1617
7440-50-8	Copper	18		07/12/2023	1617
7439-92-1	Lead	85		07/12/2023	1617
7439-96-5	Manganese	330		07/12/2023	1617
7440-02-0	Nickel	7.2		07/12/2023	1617
7782-49-2	Selenium	0.44	J	07/12/2023	1617
7440-22-4	Silver	1.1		07/12/2023	1617
7440-28-0	Thallium	0.12	J	07/12/2023	1617
7440-62-2	Vanadium	20		07/12/2023	1617
7440-66-6	Zinc	160	*	07/12/2023	1617

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F26

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-12

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.23	J	07/12/2023	1620
7440-38-2	Arsenic	4.6		07/12/2023	1620
7440-39-3	Barium	93		07/12/2023	1620
7440-41-7	Beryllium	0.46		07/12/2023	1620
7440-43-9	Cadmium	0.95		07/12/2023	1620
7440-47-3	Chromium	9.8		07/12/2023	1620
7440-48-4	Cobalt	3.1		07/12/2023	1620
7440-50-8	Copper	13		07/12/2023	1620
7439-92-1	Lead	68		07/12/2023	1620
7439-96-5	Manganese	330		07/12/2023	1620
7440-02-0	Nickel	6.6		07/12/2023	1620
7782-49-2	Selenium	0.33	J	07/12/2023	1620
7440-22-4	Silver	0.81		07/12/2023	1620
7440-28-0	Thallium	0.081	J	07/12/2023	1620
7440-62-2	Vanadium	15		07/12/2023	1620
7440-66-6	Zinc	120	*	07/12/2023	1620

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F37

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-13

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.17	J	07/12/2023	1623
7440-38-2	Arsenic	3.7		07/12/2023	1623
7440-39-3	Barium	96		07/12/2023	1623
7440-41-7	Beryllium	0.46		07/12/2023	1623
7440-43-9	Cadmium	0.63		07/12/2023	1623
7440-47-3	Chromium	9.4		07/12/2023	1623
7440-48-4	Cobalt	3.3		07/12/2023	1623
7440-50-8	Copper	12		07/12/2023	1623
7439-92-1	Lead	28		07/12/2023	1623
7439-96-5	Manganese	170		07/12/2023	1623
7440-02-0	Nickel	6.9		07/12/2023	1623
7782-49-2	Selenium	0.35	J	07/12/2023	1623
7440-22-4	Silver	0.19	J	07/12/2023	1623
7440-28-0	Thallium	0.085	J	07/12/2023	1623
7440-62-2	Vanadium	13		07/12/2023	1623
7440-66-6	Zinc	71	*	07/12/2023	1623

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F38

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-14

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.15	J	07/12/2023	1626
7440-38-2	Arsenic	4.0		07/12/2023	1626
7440-39-3	Barium	94		07/12/2023	1626
7440-41-7	Beryllium	0.45		07/12/2023	1626
7440-43-9	Cadmium	0.52		07/12/2023	1626
7440-47-3	Chromium	7.5		07/12/2023	1626
7440-48-4	Cobalt	3.1		07/12/2023	1626
7440-50-8	Copper	9.4		07/12/2023	1626
7439-92-1	Lead	24		07/12/2023	1626
7439-96-5	Manganese	160		07/12/2023	1626
7440-02-0	Nickel	5.7		07/12/2023	1626
7782-49-2	Selenium	1.9	U	07/12/2023	1626
7440-22-4	Silver	0.14	J	07/12/2023	1626
7440-28-0	Thallium	0.078	J	07/12/2023	1626
7440-62-2	Vanadium	12		07/12/2023	1626
7440-66-6	Zinc	49	*	07/12/2023	1626

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F39

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-15

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.20	J	07/12/2023	1629
7440-38-2	Arsenic	6.4		07/12/2023	1629
7440-39-3	Barium	80		07/12/2023	1629
7440-41-7	Beryllium	0.46		07/12/2023	1629
7440-43-9	Cadmium	0.82		07/12/2023	1629
7440-47-3	Chromium	9.0		07/12/2023	1629
7440-48-4	Cobalt	4.7		07/12/2023	1629
7440-50-8	Copper	15		07/12/2023	1629
7439-92-1	Lead	13		07/12/2023	1629
7439-96-5	Manganese	270		07/12/2023	1629
7440-02-0	Nickel	11		07/12/2023	1629
7782-49-2	Selenium	0.84	J	07/12/2023	1629
7440-22-4	Silver	0.10	J	07/12/2023	1629
7440-28-0	Thallium	0.10	J	07/12/2023	1629
7440-62-2	Vanadium	18		07/12/2023	1629
7440-66-6	Zinc	110	*	07/12/2023	1629

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F40

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 28HERH60D0011

Lab Code: CHM Case No.: 50852 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-12

% Solids: 100 Date Received: 02/67/6063

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-32-0	Antimony	0.15	J	07/16/6063	1236
7440-38-6	Arsenic	10		07/16/6063	1236
7440-39-3	Barium	72		07/16/6063	1236
7440-41-7	Beryllium	0.25		07/16/6063	1236
7440-43-9	Cadmium	0.55		07/16/6063	1236
7440-47-3	Chromium	8.8		07/16/6063	1236
7440-48-4	Cobalt	2.5		07/16/6063	1236
7440-50-8	Copper	12		07/16/6063	1236
7439-96-1	Lead	60		07/16/6063	1236
7439-92-5	Manganese	120		07/16/6063	1236
7440-06-0	Nickel	17		07/16/6063	1236
7786-49-6	Selenium	0.83	J	07/16/6063	1236
7440-66-4	Silver	0.14	J	07/16/6063	1236
7440-68-0	Thallium	0.15	J	07/16/6063	1236
7440-26-6	Vanadium	66		07/16/6063	1236
7440-22-2	Zinc	73	*	07/16/6063	1236

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F45

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-17

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.083	J	07/12/2023	1635
7440-38-2	Arsenic	2.9		07/12/2023	1635
7440-39-3	Barium	76		07/12/2023	1635
7440-41-7	Beryllium	0.49		07/12/2023	1635
7440-43-9	Cadmium	0.13	J	07/12/2023	1635
7440-47-3	Chromium	7.9		07/12/2023	1635
7440-48-4	Cobalt	2.7		07/12/2023	1635
7440-50-8	Copper	7.9		07/12/2023	1635
7439-92-1	Lead	9.5		07/12/2023	1635
7439-96-5	Manganese	180		07/12/2023	1635
7440-02-0	Nickel	6.1		07/12/2023	1635
7782-49-2	Selenium	0.29	J	07/12/2023	1635
7440-22-4	Silver	0.038	J	07/12/2023	1635
7440-28-0	Thallium	0.087	J	07/12/2023	1635
7440-62-2	Vanadium	13		07/12/2023	1635
7440-66-6	Zinc	32	*	07/12/2023	1635

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F46

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-18

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.22	J	07/12/2023	1638
7440-38-2	Arsenic	7.7		07/12/2023	1638
7440-39-3	Barium	83		07/12/2023	1638
7440-41-7	Beryllium	0.39	J	07/12/2023	1638
7440-43-9	Cadmium	0.84		07/12/2023	1638
7440-47-3	Chromium	10		07/12/2023	1638
7440-48-4	Cobalt	5.3		07/12/2023	1638
7440-50-8	Copper	15		07/12/2023	1638
7439-92-1	Lead	15		07/12/2023	1638
7439-96-5	Manganese	200		07/12/2023	1638
7440-02-0	Nickel	14		07/12/2023	1638
7782-49-2	Selenium	0.39	J	07/12/2023	1638
7440-22-4	Silver	0.14	J	07/12/2023	1638
7440-28-0	Thallium	0.13	J	07/12/2023	1638
7440-62-2	Vanadium	23		07/12/2023	1638
7440-66-6	Zinc	94	*	07/12/2023	1638

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F47

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-19

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.22	J	07/12/2023	1657
7440-38-2	Arsenic	8.3		07/12/2023	1657
7440-39-3	Barium	100		07/12/2023	1657
7440-41-7	Beryllium	0.43		07/12/2023	1657
7440-43-9	Cadmium	0.73		07/12/2023	1657
7440-47-3	Chromium	8.5		07/12/2023	1657
7440-48-4	Cobalt	5.5		07/12/2023	1657
7440-50-8	Copper	13		07/12/2023	1657
7439-92-1	Lead	15		07/12/2023	1657
7439-96-5	Manganese	200		07/12/2023	1657
7440-02-0	Nickel	14		07/12/2023	1657
7782-49-2	Selenium	0.39	J	07/12/2023	1657
7440-22-4	Silver	0.15	J	07/12/2023	1657
7440-28-0	Thallium	0.22	J	07/12/2023	1657
7440-62-2	Vanadium	22		07/12/2023	1657
7440-66-6	Zinc	66	*	07/12/2023	1657

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F48

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-20

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.49	J	07/12/2023	1700
7440-38-2	Arsenic	17		07/12/2023	1700
7440-39-3	Barium	210		07/12/2023	1700
7440-41-7	Beryllium	0.84		07/12/2023	1700
7440-43-9	Cadmium	1.3		07/12/2023	1700
7440-47-3	Chromium	13		07/12/2023	1700
7440-48-4	Cobalt	6.3		07/12/2023	1700
7440-50-8	Copper	31		07/12/2023	1700
7439-92-1	Lead	160		07/12/2023	1700
7439-96-5	Manganese	520		07/12/2023	1700
7440-02-0	Nickel	13		07/12/2023	1700
7782-49-2	Selenium	0.43	J	07/12/2023	1700
7440-22-4	Silver	0.44		07/12/2023	1700
7440-28-0	Thallium	0.18	J	07/12/2023	1700
7440-62-2	Vanadium	26		07/12/2023	1700
7440-66-6	Zinc	260	*	07/12/2023	1700

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F49

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F15

Matrix: SOIL Lab Sample ID: O3447-21

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.39	J	07/12/2023	1703
7440-38-2	Arsenic	16		07/12/2023	1703
7440-39-3	Barium	180		07/12/2023	1703
7440-41-7	Beryllium	0.78		07/12/2023	1703
7440-43-9	Cadmium	1.2		07/12/2023	1703
7440-47-3	Chromium	8.9		07/12/2023	1703
7440-48-4	Cobalt	6.6		07/12/2023	1703
7440-50-8	Copper	25		07/12/2023	1703
7439-92-1	Lead	130		07/12/2023	1703
7439-96-5	Manganese	470		07/12/2023	1703
7440-02-0	Nickel	13		07/12/2023	1703
7782-49-2	Selenium	0.46	J	07/12/2023	1703
7440-22-4	Silver	0.34	J	07/12/2023	1703
7440-28-0	Thallium	0.15	J	07/12/2023	1703
7440-62-2	Vanadium	26		07/12/2023	1703
7440-66-6	Zinc	180	*	07/12/2023	1703

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F80

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 65HERH20D0011

Lab Code: CHM Case No.: 80586 MA No. : SDG No.: MH0F18

Matrix: SOIL Lab Sample ID: O3447-22

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.89	J	07/12/2023	1706
7440-35-2	Arsenic	25		07/12/2023	1706
7440-39-3	Barium	190		07/12/2023	1706
7440-41-7	Beryllium	0.59		07/12/2023	1706
7440-43-9	Cadmium	1.0		07/12/2023	1706
7440-47-3	Chromium	11		07/12/2023	1706
7440-45-4	Cobalt	8.7		07/12/2023	1706
7440-80-5	Copper	41		07/12/2023	1706
7439-92-1	Lead	94		07/12/2023	1706
7439-96-8	Manganese	870		07/12/2023	1706
7440-02-0	Nickel	14		07/12/2023	1706
7752-49-2	Selenium	0.68	J	07/12/2023	1706
7440-22-4	Silver	0.48		07/12/2023	1706
7440-25-0	Thallium	0.18	J	07/12/2023	1706
7440-62-2	Vanadium	28		07/12/2023	1706
7440-66-6	Zinc	230	*	07/12/2023	1706

NOTE: Hardness (total) is reported in mg/L

Comments:

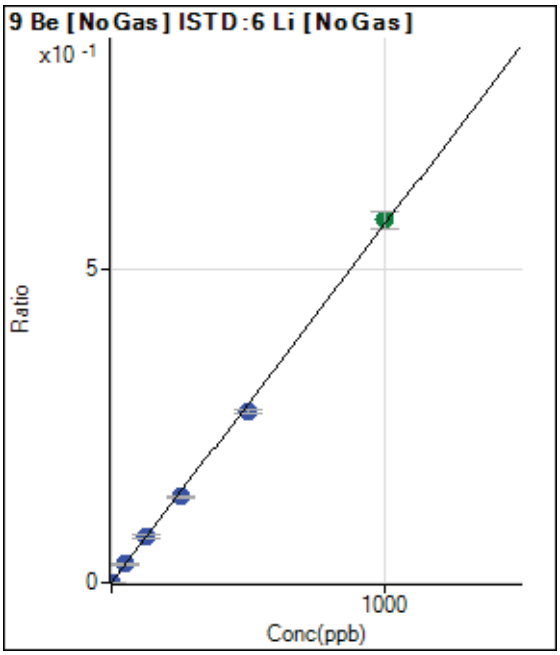
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

Calibration for 160AREF.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071223 MS.b\
Analysis File: P8071223 MS.batch.bin
DA Date-Time: 2023-07-13 00:23:33
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-07-12 12:09:14
2	005CALS.d	S02	2023-07-12 12:12:16
3	006CALS.d	S03	2023-07-12 12:15:20
4	007CALS.d	S04	2023-07-12 12:18:18
5	008CALS.d	S05	2023-07-12 12:21:19
6	009CALS.d	S06	2023-07-12 12:24:17
7	010CALS.d	S07	2023-07-12 12:27:18
8	011CALS.d	S08	2023-07-12 12:30:16

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	27.50	0.0000	P	16.3
2		1.000	0.988	1510.31	0.0006	P	1.8
3		50.000	51.041	72184.15	0.0292	P	4.5
4		125.000	129.205	170713.20	0.0739	P	8.5
5		250.000	239.879	320875.91	0.1371	P	0.9
6		500.000	476.986	610456.96	0.2726	P	2.5
7		1000.000	1013.460	1229631.46	0.5793	A	4.8
8				262.47	0.0001	P	13.9

y = 5.7157E-004 * x + 1.0563E-005

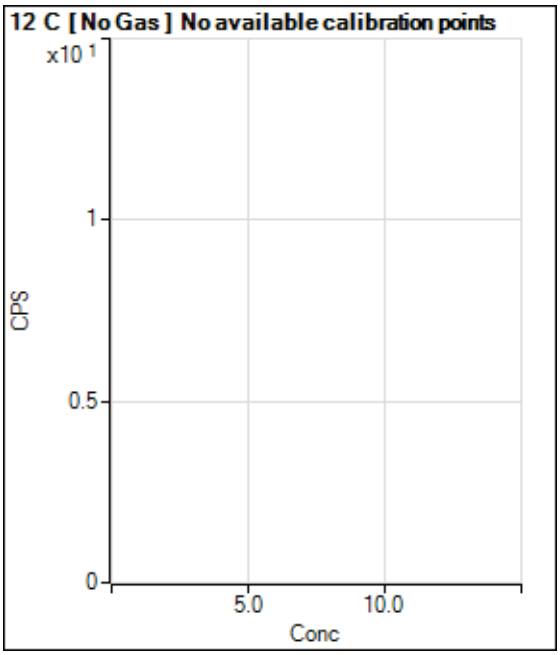
R = 0.9995

DL = 0.009038

BEC = 0.01848

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2342645.15		A	1.2
2				2315175.66		A	1.2
3				2528228.73		A	1.4
4				2481670.78		A	0.2
5				2385645.65		A	1.4
6				2442886.55		A	1.1
7				2508340.38		A	3.1
8				2363346.88		A	3.0

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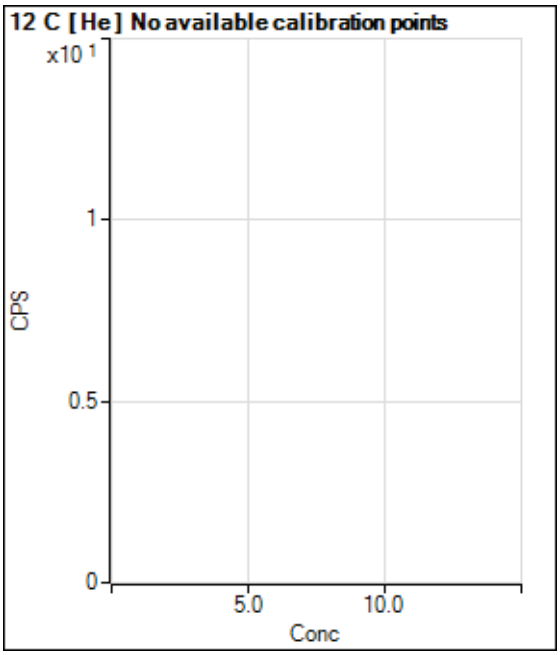
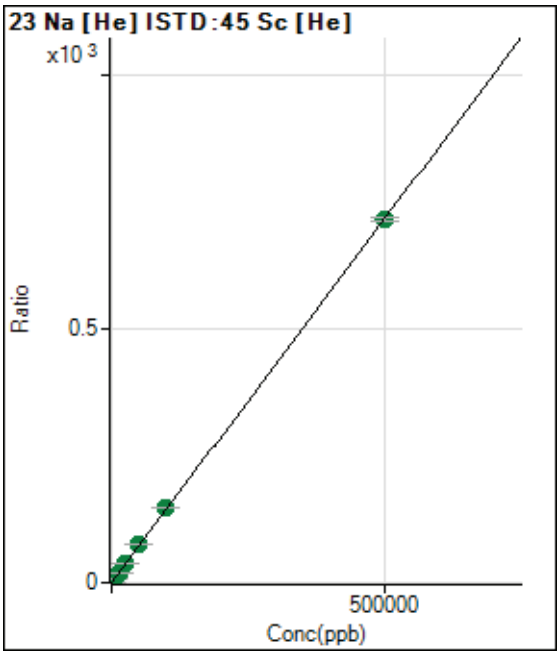


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				29591.46		P	3.4
2				29443.98		P	1.5
3				31178.06		P	0.8
4				30810.79		P	1.6
5				30621.29		P	1.4
6				32428.01		P	0.3
7				34680.43		P	3.9
8				34847.47		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	20353.51	0.1367	P	2.0
2		500.000	484.701	121660.68	0.8302	P	1.7
3		5000.000	5576.341	1136230.87	8.1148	A	1.6
4		12500.000	13568.820	2629601.60	19.5497	A	0.6
5		25000.000	25734.071	4921470.64	36.9546	A	4.9
6		50000.000	53378.812	9917915.06	76.5060	A	1.4
7		100000.00	103501.81	19873362.42	148.2173	A	1.4
8		500000.00	498892.58	95545543.11	713.9047	A	0.9

y = 0.0014 * x + 0.1367
R = 1.0000
DL = 5.722
BEC = 95.56

Weight: <None>
Min Conc: 0

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On:7/14/2023 8:48:56 AM
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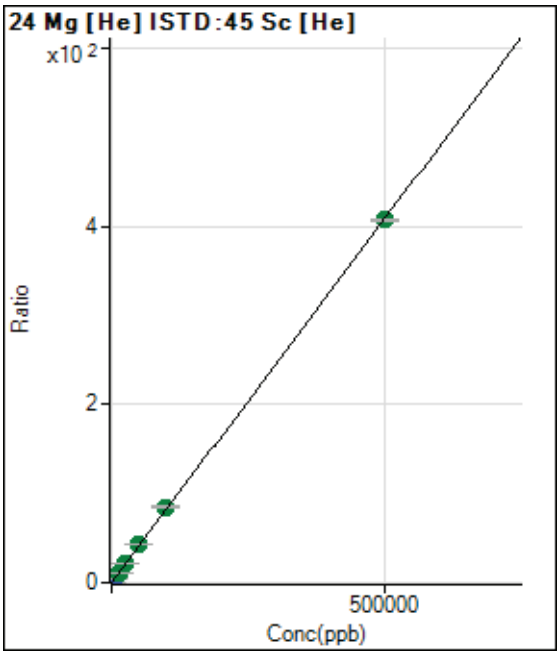
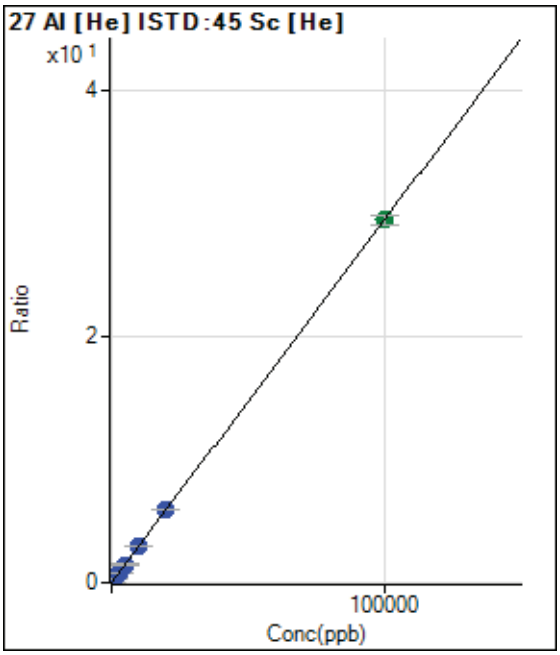


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.00	0.0005	P	68.2
2		500.000	480.583	57528.53	0.3926	P	2.1
3		5000.000	5371.637	613639.56	4.3826	P	1.8
4		12500.000	13767.603	1510656.59	11.2320	A	1.7
5		25000.000	26085.991	2834248.85	21.2812	A	4.7
6		50000.000	52833.024	5587332.41	43.1013	A	1.8
7		100000.00	103692.44	11342111.97	84.5920	A	1.6
8		500000.00	498888.52	54470326.91	406.9897	A	0.3

y = 8.1579E-004 * x + 5.0506E-004
R = 1.0000
DL = 1.266
BEC = 0.6191

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	102.91	0.0007	P	3.2
2		20.000	19.313	934.92	0.0064	P	1.8
3		1000.000	1054.996	43589.33	0.3113	P	0.6
4		2500.000	2578.388	102196.62	0.7598	P	1.2
5		5000.000	4926.850	193268.65	1.4512	P	4.8
6		10000.000	10180.422	388642.18	2.9979	P	0.8
7		20000.000	19935.137	787093.98	5.8699	P	0.6
8		100000.00	99996.078	3939917.36	29.4408	A	2.5

y = 2.9441E-004 * x + 6.9131E-004
R = 1.0000
DL = 0.2261
BEC = 2.348

Weight: <None>
Min Conc: 0

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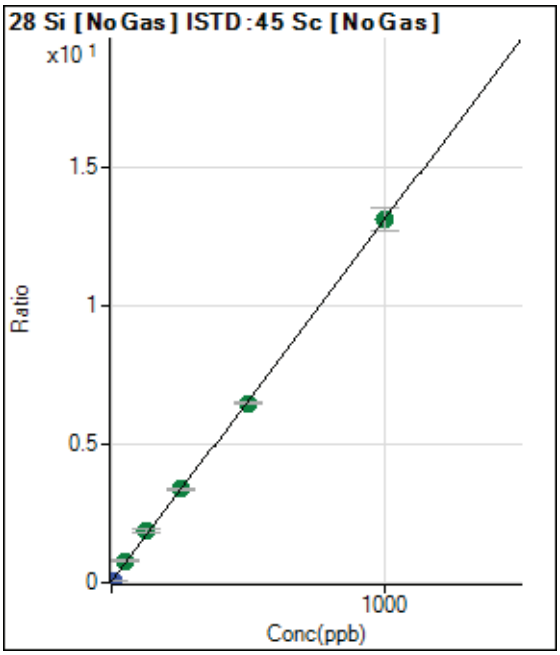
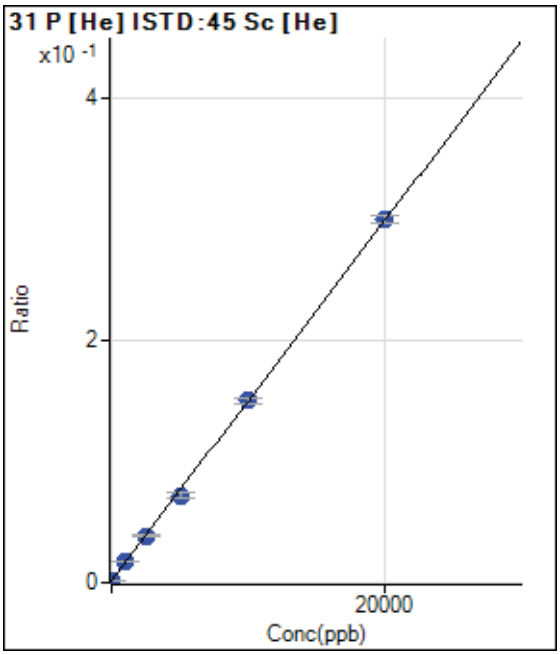


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	176439.60	0.0405	P	0.7
2		10.000	0.661	210875.84	0.0492	P	1.8
3		50.000	56.832	3120866.80	0.7825	A	7.5
4		125.000	138.468	7019926.46	1.8483	A	8.1
5		250.000	256.169	13285599.60	3.3849	A	2.5
6		500.000	493.679	25324063.93	6.4857	A	0.5
7		1000.000	999.686	49579840.35	13.0918	A	6.2
8				759609.40	0.2106	P	16.5

y = 0.0131 * x + 0.0405
R = 0.9998
DL = 0.06132
BEC = 3.104

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-8.137	252.78	0.0017	P	29.5
2		0.000	8.137	283.34	0.0019	P	21.0
3		1000.000	1032.698	2400.27	0.0171	P	1.4
4		2500.000	2457.693	5148.26	0.0383	P	4.0
5		5000.000	4726.797	9581.21	0.0720	P	5.2
6		10000.000	10017.075	19502.43	0.1504	P	3.2
7		20000.000	20063.417	40158.93	0.2995	P	2.3
8				216.67	0.0016	P	19.5

y = 1.4838E-005 * x + 0.0018
R = 0.9999
DL = 91.59
BEC = 122.5

Weight: <None>
Min Conc: 0

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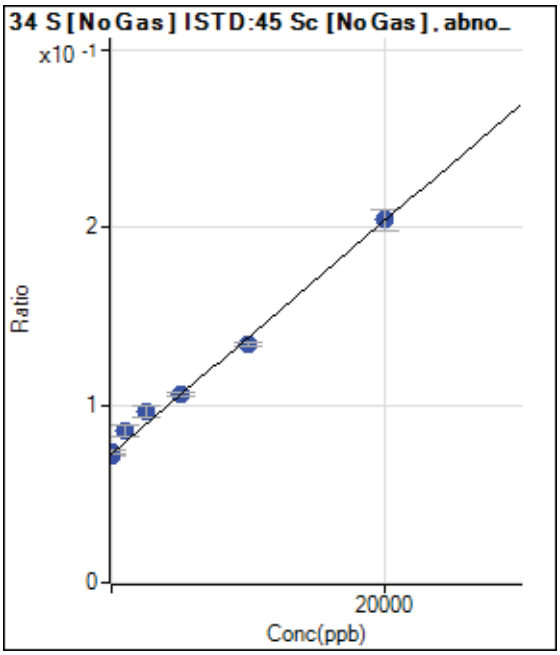
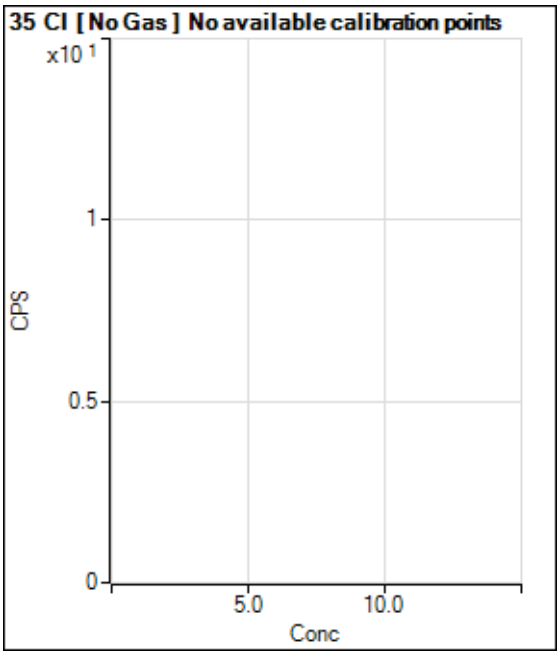
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-142.033	312135.98	0.0717	P	1.0
2		0.000	142.033	315554.01	0.0736	P	2.3
3		1000.000	1965.609	341180.05	0.0855	P	7.1
4		2500.000	3631.464	366698.86	0.0965	P	6.2
5		5000.000	5137.690	417461.67	0.1064	P	2.2
6		10000.000	9423.765	525094.67	0.1345	P	1.2
7		20000.000	20063.982	773992.49	0.2044	P	6.0
8				273045.24	0.0755	P	7.1

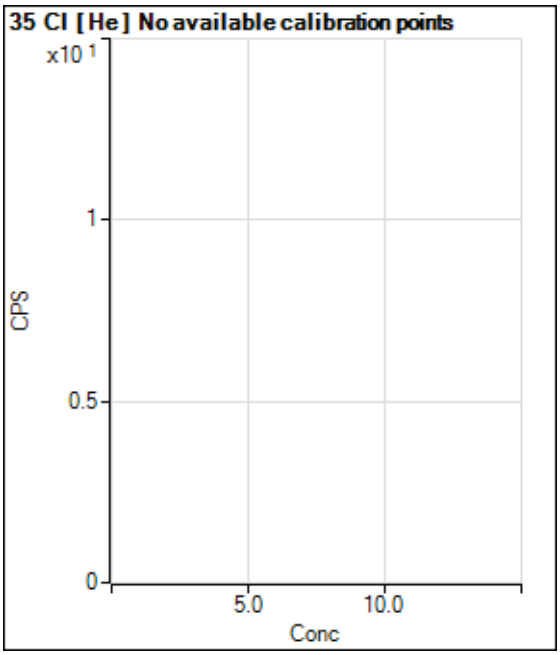
y = 6.5659E-006 * x + 0.0726
R = 0.9969
DL = 563.2
BEC = 1.106E+04

Weight: <None>
Min Conc: 0

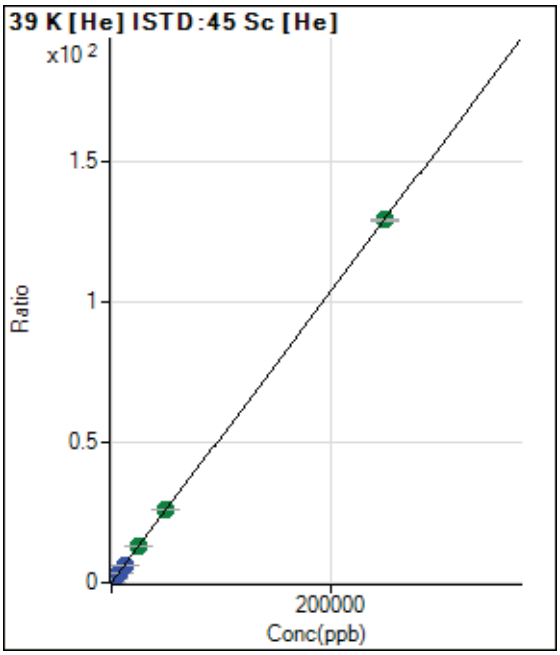


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				92860.89		P	3.3
2				95105.90		P	2.9
3				136610.42		P	1.0
4				131409.75		P	1.1
5				124916.40		P	0.1
6				122636.51		P	1.8
7				122238.72		P	1.7
8				136391.31		P	2.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				705.59		P	9.5
2				716.71		P	9.3
3				1044.52		P	15.4
4				933.39		P	11.8
5				952.83		P	15.8
6				850.05		P	8.5
7				986.18		P	14.0
8				1152.86		P	10.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	10262.29	0.0689	P	1.0
2		500.000	461.927	45157.58	0.3081	P	1.6
3		2500.000	2533.612	193324.52	1.3806	P	0.8
4		6250.000	6186.305	440058.14	3.2717	P	2.0
5		12500.000	11769.699	820863.53	6.1623	P	3.9
6		25000.000	25372.359	1711912.20	13.2046	A	1.8
7		50000.000	50424.732	3510249.12	26.1746	A	0.9
8		250000.00	249915.66	17325119.66	129.4540	A	0.8

y = 5.1771E-004 * x + 0.0689
R = 1.0000
DL = 4.044
BEC = 133.2

Weight: <None>
Min Conc: 0

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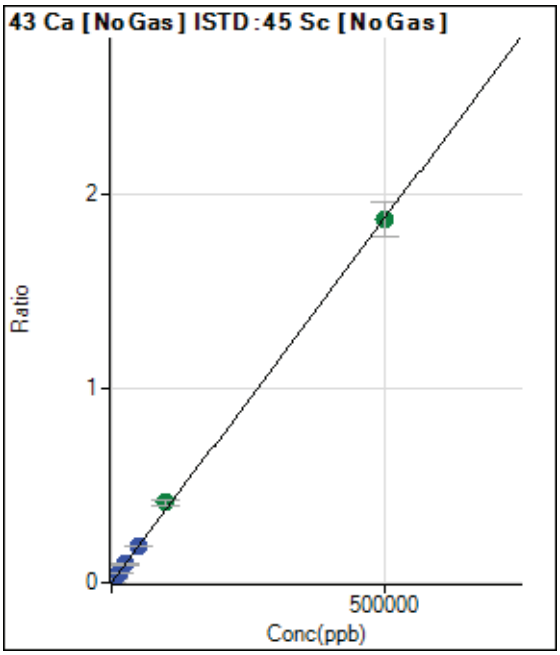
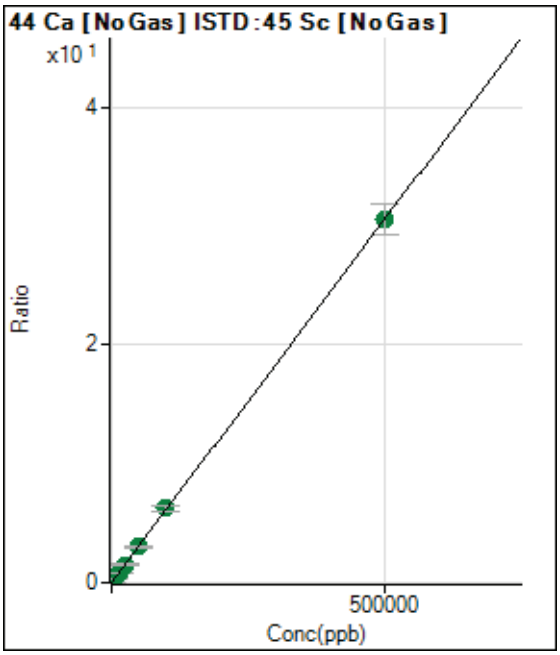
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	253.72	0.0001	P	3.7
2		500.000	432.127	7192.58	0.0017	P	3.4
3		5000.000	5468.159	81944.21	0.0205	P	6.7
4		12500.000	13663.418	194597.12	0.0512	P	8.1
5		25000.000	25147.023	369943.28	0.0942	P	2.0
6		50000.000	49372.763	722149.27	0.1850	P	2.2
7		100000.00	110031.79	1560345.02	0.4122	A	7.6
8		500000.00	498015.31	6736010.51	1.8654	A	9.4

y = 3.7455E-006 * x + 5.8285E-005
R = 0.9998
DL = 1.72
BEC = 15.56

Weight: <None>
Min Conc: 0

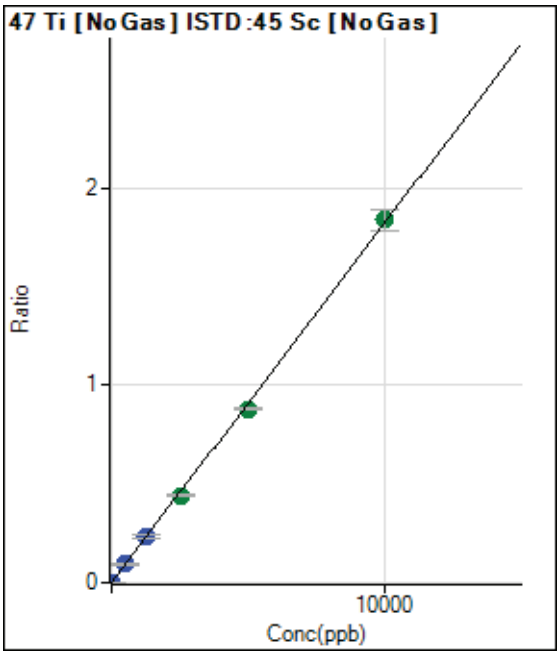


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	28454.41	0.0065	P	1.1
2		500.000	436.588	142327.06	0.0332	P	2.8
3		5000.000	5378.982	1336026.05	0.3348	A	6.2
4		12500.000	13409.951	3133769.30	0.8249	A	7.8
5		25000.000	24830.132	5973834.85	1.5218	A	1.9
6		50000.000	49487.637	11814656.83	3.0266	A	2.6
7		100000.00	102022.80	23600225.42	6.2326	A	6.7
8		500000.00	499628.69	110160001.0	30.4969	A	8.6

y = 6.1026E-005 * x + 0.0065
R = 1.0000
DL = 3.611
BEC = 107.1

Weight: <None>
Min Conc: 0

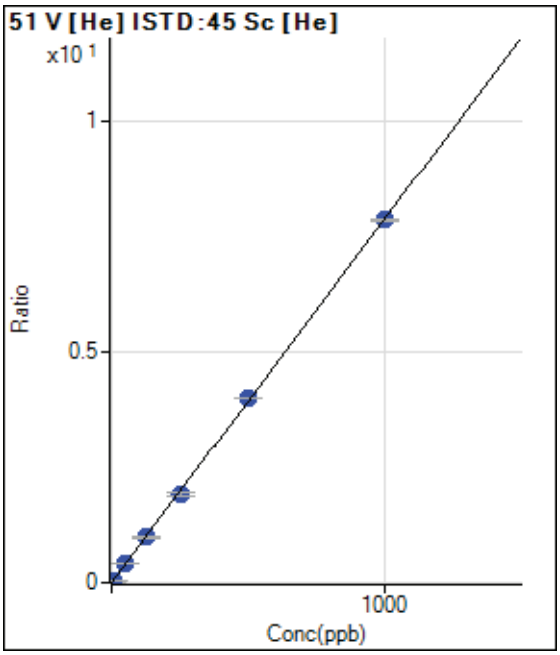
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	175.00	0.0000	P	20.3
2		5.000	4.483	3672.79	0.0009	P	1.4
3		500.000	512.003	371899.76	0.0932	P	6.1
4		1250.000	1291.335	892745.15	0.2350	P	7.6
5		2500.000	2425.947	1732609.85	0.4414	A	2.6
6		5000.000	4834.709	3434062.88	0.8796	A	1.8
7		10000.000	10095.392	6956230.54	1.8368	A	6.1
8				1897.54	0.0005	P	25.2

y = 1.8194E-004 * x + 4.0253E-005
R = 0.9997
DL = 0.1346
BEC = 0.2212

Weight: <None>
Min Conc: 0

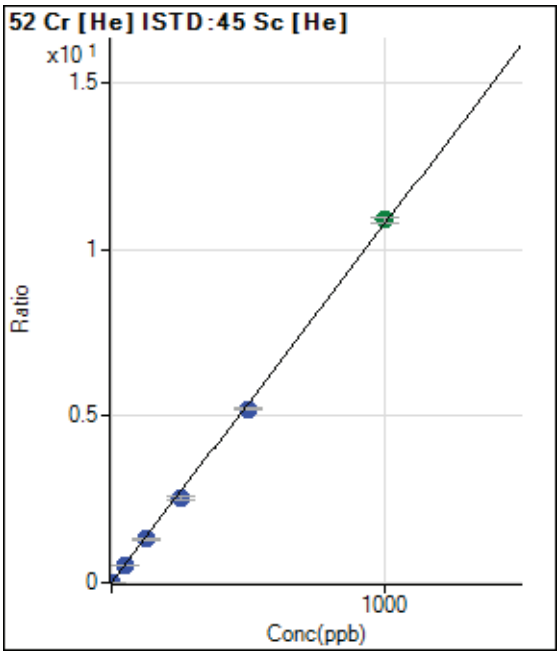


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.78	0.0001	P	29.2
2		5.000	4.719	5466.65	0.0373	P	2.5
3		50.000	51.464	56796.67	0.4056	P	1.7
4		125.000	125.873	133415.73	0.9919	P	2.7
5		250.000	243.276	255284.44	1.9170	P	5.0
6		500.000	506.333	517232.80	3.9898	P	0.0
7		1000.000	998.334	1054808.79	7.8665	P	0.8
8				374.45	0.0028	P	9.0

y = 0.0079 * x + 1.1955E-004
R = 0.9999
DL = 0.01331
BEC = 0.01517

Weight: <None>
Min Conc: 0

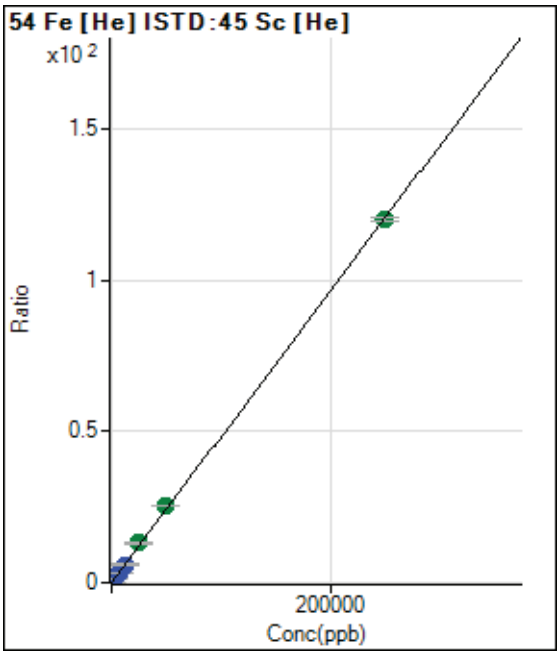
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1118.94	0.0075	P	9.7
2		2.000	1.921	4127.31	0.0282	P	1.2
3		50.000	49.532	75570.68	0.5397	P	2.2
4		125.000	120.875	175715.62	1.3063	P	2.0
5		250.000	233.952	335781.26	2.5214	P	4.8
6		500.000	485.060	676653.93	5.2195	P	0.2
7		1000.000	1012.021	1459095.62	10.8818	A	1.8
8				8626.01	0.0645	P	2.3

y = 0.0107 * x + 0.0075
R = 0.9997
DL = 0.2034
BEC = 0.6998

Weight: <None>
Min Conc: 0

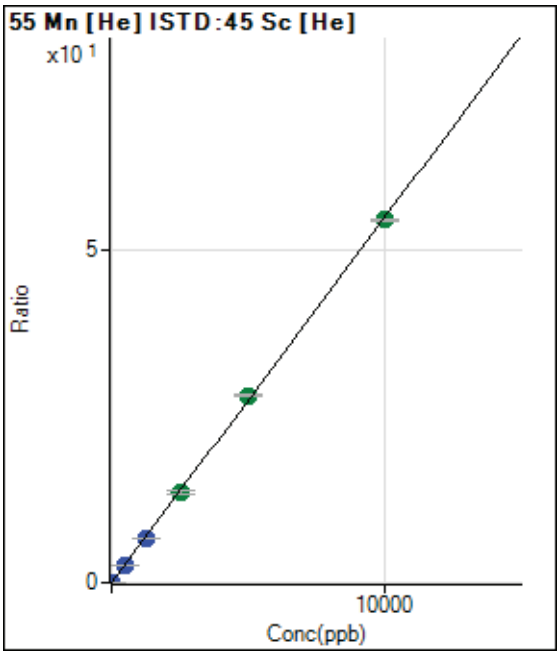


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	357.42	0.0024	P	11.6
2		50.000	49.879	3867.26	0.0264	P	4.2
3		2500.000	2599.697	175449.70	1.2531	P	1.7
4		6250.000	6472.075	419110.56	3.1160	P	1.4
5		12500.000	12386.491	793936.68	5.9613	P	4.6
6		25000.000	27210.446	1697366.40	13.0928	A	1.2
7		50000.000	52569.437	3391448.60	25.2925	A	1.0
8		250000.00	249264.19	16049717.60	119.9183	A	0.9

y = 4.8108E-004 * x + 0.0024
R = 0.9999
DL = 1.735
BEC = 4.99

Weight: <None>
Min Conc: 0

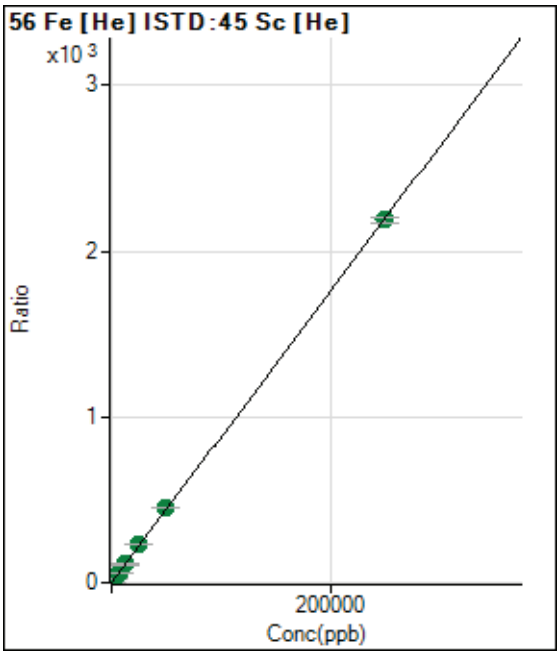
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	43.33	0.0003	P	27.4
2		1.000	0.911	773.36	0.0053	P	6.3
3		500.000	496.242	380129.22	2.7148	P	1.6
4		1250.000	1218.768	896747.82	6.6672	P	1.8
5		2500.000	2479.645	1806531.14	13.5644	A	5.0
6		5000.000	5135.452	3641977.27	28.0922	A	1.4
7		10000.000	9941.455	7292849.34	54.3819	A	0.5
8				5393.30	0.0403	P	1.4

y = 0.0055 * x + 2.9084E-004
R = 0.9999
DL = 0.04366
BEC = 0.05317

Weight: <None>
Min Conc: 0

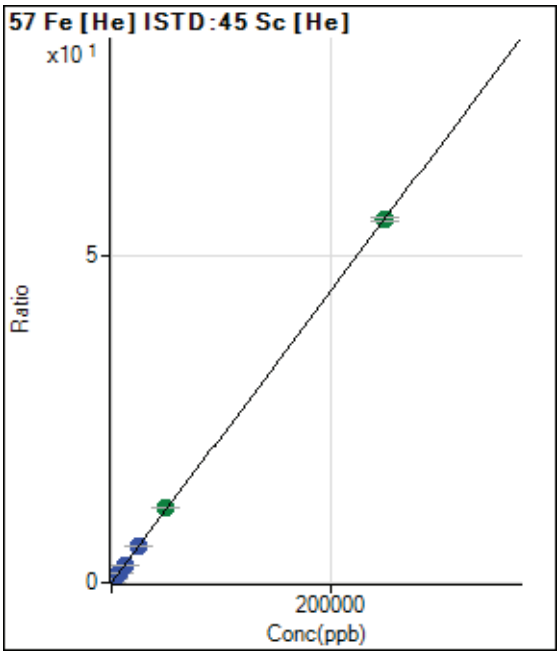


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2748.46	0.0185	P	1.6
2		50.000	48.086	64512.12	0.4402	P	2.0
3		2500.000	2721.331	3344776.52	23.8871	A	0.8
4		6250.000	6653.382	7851581.48	58.3750	A	1.2
5		12500.000	12763.257	14914576.49	111.9644	A	3.9
6		25000.000	26266.094	29867877.98	230.3971	A	1.0
7		50000.000	51507.907	60582020.80	451.7918	A	2.0
8		250000.00	249546.34	292932439.8	2,188.777	A	1.5

y = 0.0088 * x + 0.0185
R = 1.0000
DL = 0.09814
BEC = 2.105

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	120.37	0.0008	P	30.6
2		50.000	46.777	1646.42	0.0112	P	4.7
3		2500.000	2552.326	79748.26	0.5696	P	2.3
4		6250.000	6306.192	189130.31	1.4060	P	1.4
5		12500.000	12080.754	358579.58	2.6928	P	5.2
6		25000.000	25129.953	726052.24	5.6006	P	0.6
7		50000.000	51912.531	1551287.06	11.5686	A	0.8
8		250000.00	249623.53	7444441.37	55.6251	A	1.1

y = 2.2283E-004 * x + 8.0953E-004

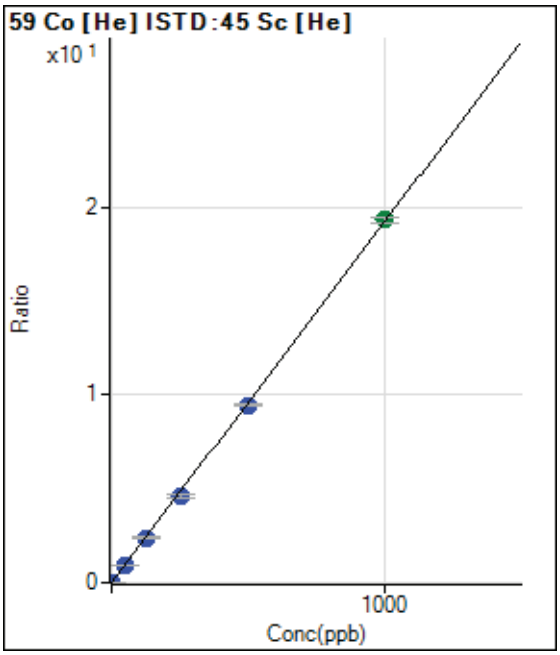
R = 1.0000

DL = 3.331

BEC = 3.633

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	51.11	0.0003	P	20.5
2		1.000	0.957	2744.74	0.0187	P	0.5
3		50.000	50.154	134951.06	0.9638	P	1.6
4		125.000	125.227	323597.15	2.4059	P	1.5
5		250.000	239.192	611853.25	4.5951	P	5.4
6		500.000	493.158	1228150.57	9.4736	P	0.6
7		1000.000	1006.087	2591334.82	19.3266	A	1.9
8				6103.58	0.0456	P	0.6

y = 0.0192 * x + 3.4311E-004

R = 0.9999

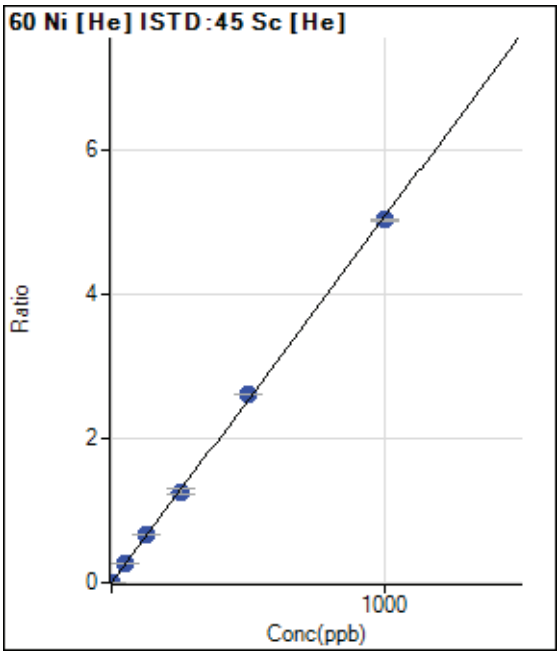
DL = 0.01096

BEC = 0.01786

Weight: <None>

Min Conc: 0

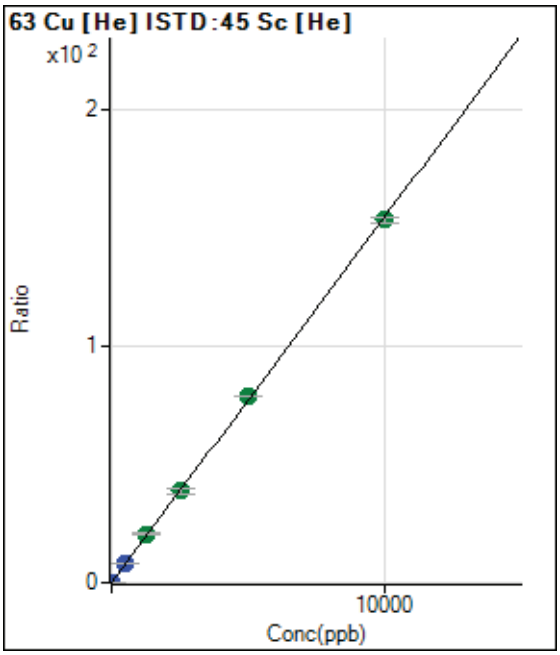
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	46.67	0.0003	P	19.1
2		1.000	1.108	870.04	0.0059	P	4.1
3		50.000	53.701	38209.02	0.2729	P	1.8
4		125.000	131.135	89563.16	0.6659	P	1.9
5		250.000	249.350	168566.02	1.2659	P	5.5
6		500.000	514.254	338421.53	2.6105	P	0.5
7		1000.000	992.083	675257.45	5.0359	P	0.7
8				3362.65	0.0251	P	3.2

y = 0.0051 * x + 3.1358E-004
R = 0.9998
DL = 0.03546
BEC = 0.06178

Weight: <None>
Min Conc: 0

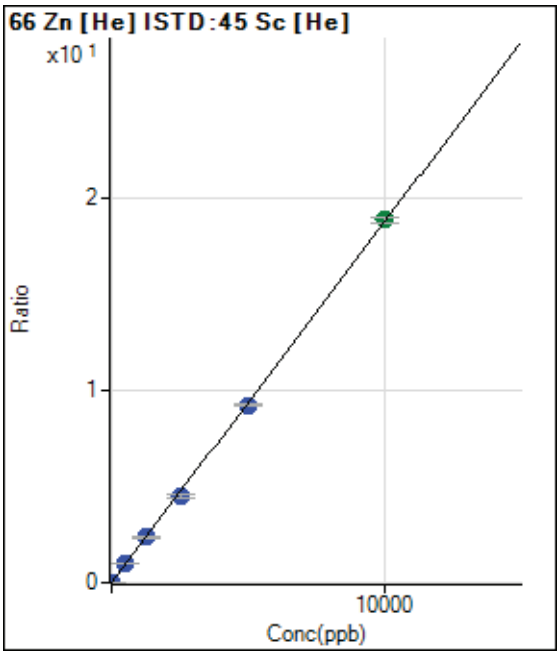


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	486.68	0.0033	P	13.6
2		2.000	1.866	4703.05	0.0321	P	2.1
3		500.000	506.527	1095803.45	7.8262	P	1.5
4		1250.000	1326.137	2755233.88	20.4844	A	3.2
5		2500.000	2503.925	5149760.38	38.6743	A	5.4
6		5000.000	5120.236	10251899.99	79.0811	A	0.3
7		10000.000	9929.057	20561382.75	153.3493	A	1.4
8				7277.51	0.0544	P	0.8

y = 0.0154 * x + 0.0033
R = 0.9999
DL = 0.08633
BEC = 0.2117

Weight: <None>
Min Conc: 0

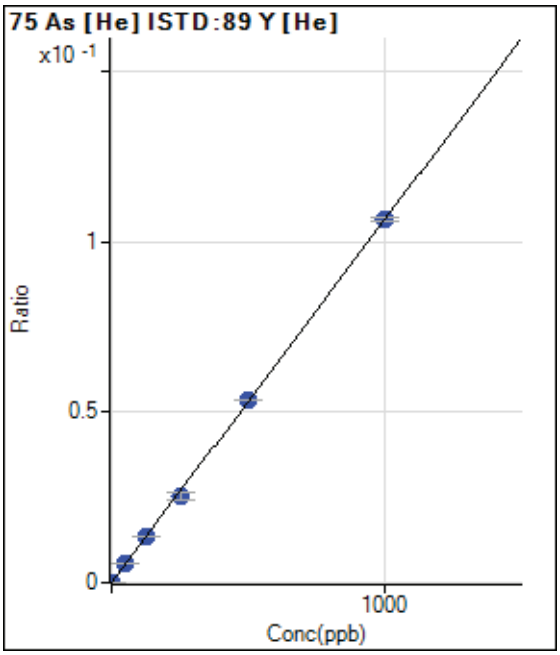
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	130.00	0.0009	P	3.1
2		2.000	2.231	741.13	0.0051	P	6.8
3		500.000	514.977	135465.48	0.9675	P	1.8
4		1250.000	1255.301	317041.67	2.3571	P	1.4
5		2500.000	2396.977	599312.34	4.5001	P	4.8
6		5000.000	4925.858	1198747.77	9.2469	P	0.4
7		10000.000	10061.415	2532381.87	18.8865	A	1.4
8				2828.08	0.0211	P	1.5

y = 0.0019 * x + 8.7341E-004
R = 0.9999
DL = 0.04371
BEC = 0.4653

Weight: <None>
Min Conc: 0

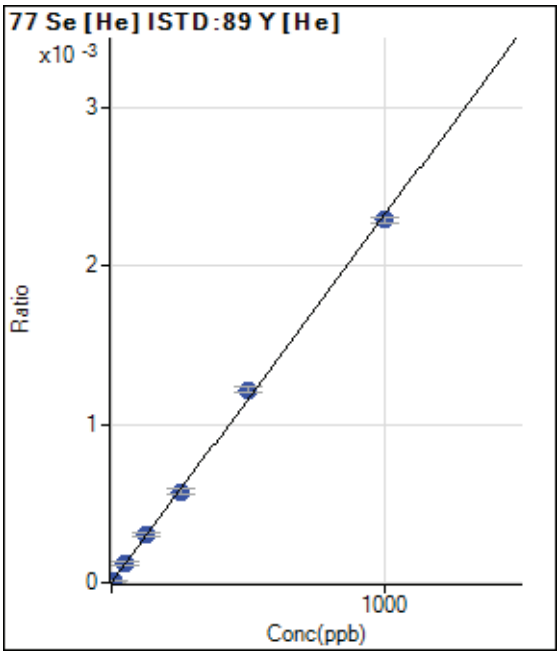


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.67	0.0000	P	91.9
2		1.000	1.052	145.35	0.0001	P	11.7
3		50.000	52.675	6876.38	0.0056	P	2.0
4		125.000	127.998	16015.34	0.0136	P	1.6
5		250.000	240.627	30547.58	0.0256	P	9.3
6		500.000	502.940	61851.86	0.0535	P	0.6
7		1000.000	1000.365	126555.21	0.1064	P	1.1
8				58.68	0.0000	P	22.7

y = 1.0633E-004 * x + 1.3078E-006
R = 0.9999
DL = 0.0339
BEC = 0.0123

Weight: <None>
Min Conc: 0

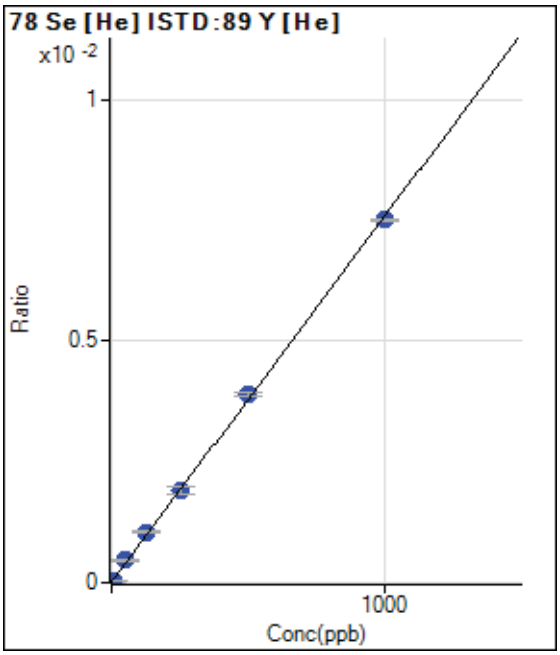
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.11	0.0000	P	173.
2		5.000	4.478	14.44	0.0000	P	35.8
3		50.000	52.489	151.12	0.0001	P	21.8
4		125.000	130.787	357.79	0.0003	P	10.8
5		250.000	247.575	687.80	0.0006	P	5.8
6		500.000	525.330	1410.09	0.0012	P	3.2
7		1000.000	987.096	2724.74	0.0023	P	1.3
8				13.33	0.0000	P	24.6

y = 2.3191E-006 * x + 8.7432E-007
R = 0.9995
DL = 1.959
BEC = 0.377

Weight: <None>
Min Conc: 0

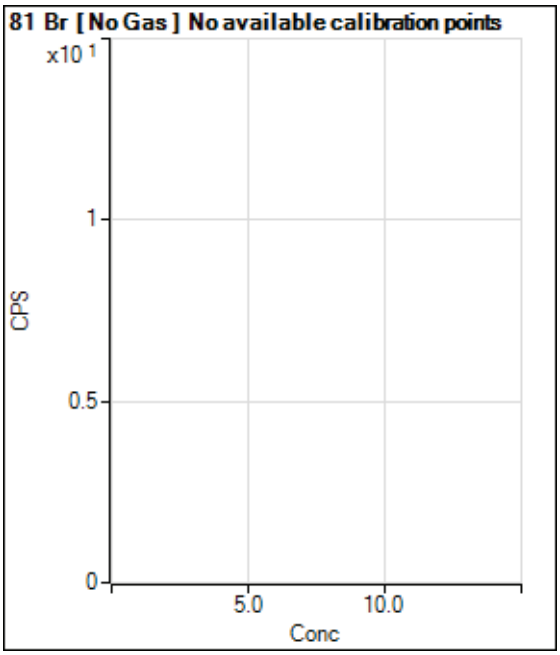


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14.33	0.0000	P	17.4
2		5.000	4.761	60.68	0.0000	P	18.3
3		50.000	59.240	563.74	0.0005	P	7.2
4		125.000	137.081	1234.18	0.0010	P	2.9
5		250.000	250.451	2277.42	0.0019	P	8.9
6		500.000	513.939	4512.85	0.0039	P	1.8
7		1000.000	990.947	8939.08	0.0075	P	0.6
8				69.68	0.0001	P	27.9

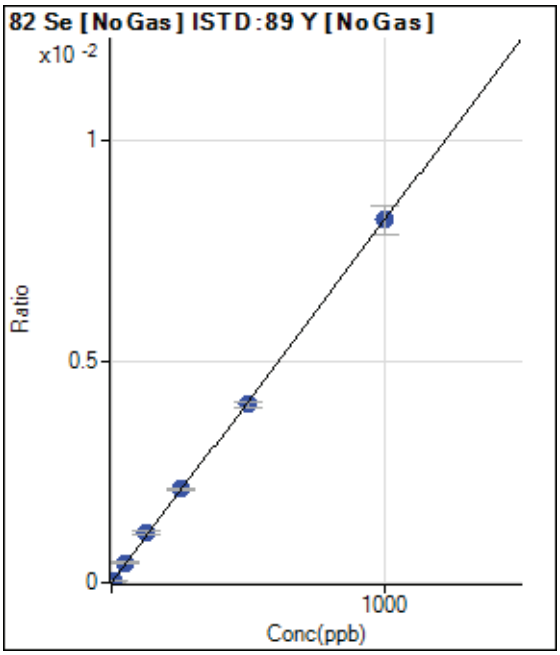
y = 7.5705E-006 * x + 1.1230E-005
R = 0.9998
DL = 0.7727
BEC = 1.483

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				4448.05		P	2.8
2				4359.13		P	4.5
3				4164.61		P	1.7
4				4006.24		P	4.2
5				3642.23		P	1.2
6				3442.18		P	6.4
7				3036.52		P	4.3
8				6890.81		P	16.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.91	0.0000	P	133.
2		5.000	4.764	480.38	0.0000	P	9.6
3		50.000	55.470	5059.55	0.0005	P	8.4
4		125.000	138.267	12061.39	0.0011	P	7.0
5		250.000	258.057	23293.85	0.0021	P	2.7
6		500.000	491.094	44487.68	0.0040	P	2.5
7		1000.000	1000.508	88921.33	0.0082	P	7.6
8				461.63	0.0000	P	11.5

y = 8.2046E-006 * x + 1.4905E-006

R = 0.9998

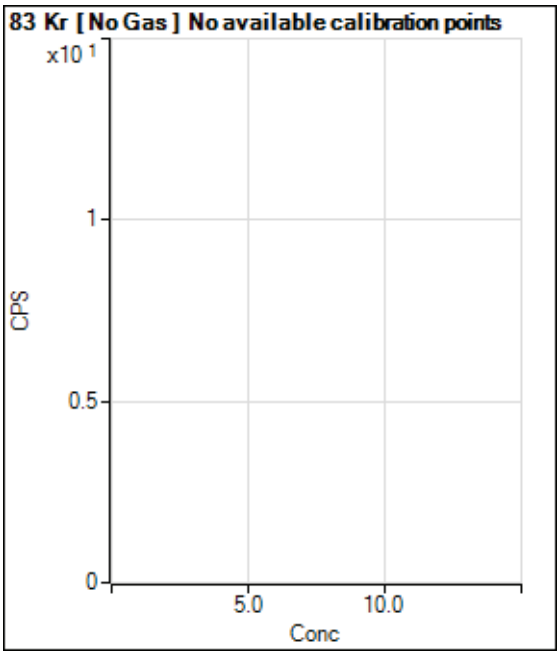
DL = 0.73

BEC = 0.1817

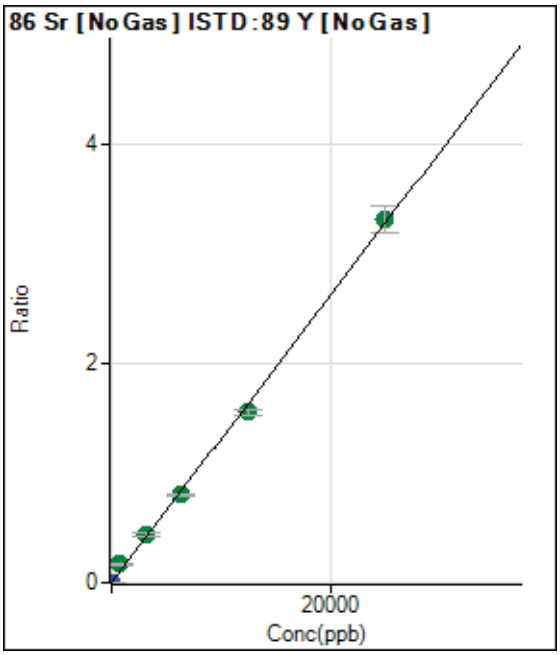
Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				230.39		P	11.8
2				244.97		P	5.4
3				244.97		P	1.4
4				238.30		P	1.1
5				247.47		P	8.9
6				231.22		P	2.5
7				232.47		P	4.6
8				236.22		P	7.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	450.02	0.0000	P	7.5
2		1.000	0.864	1775.16	0.0001	P	1.3
3		625.000	1300.834	1883127.97	0.1699	A	7.6
4		3125.000	3329.086	4613793.07	0.4349	A	8.8
5		6250.000	6125.626	8796843.42	0.8001	A	2.5
6		12500.000	11885.792	17132254.72	1.5525	A	3.3
7		25000.000	25295.791	35787979.96	3.3039	A	7.3
8				10237.76	0.0010	P	10.3

y = 1.3061E-004 * x + 3.7081E-005

R = 0.9991

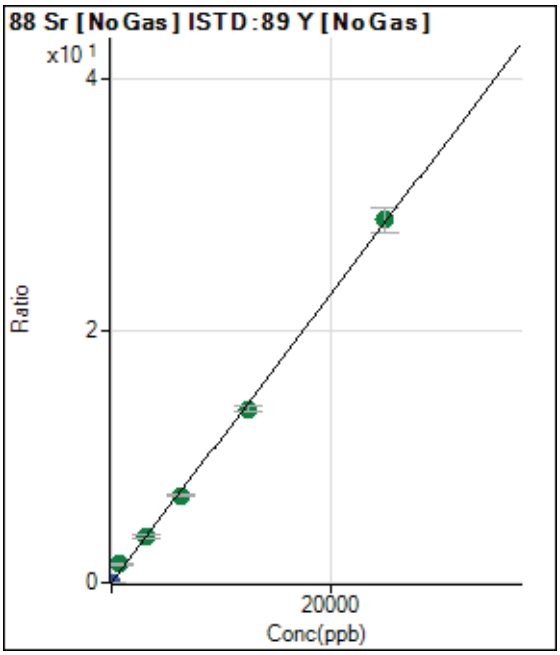
DL = 0.06414

BEC = 0.2839

Weight: <None>

Min Conc: 0

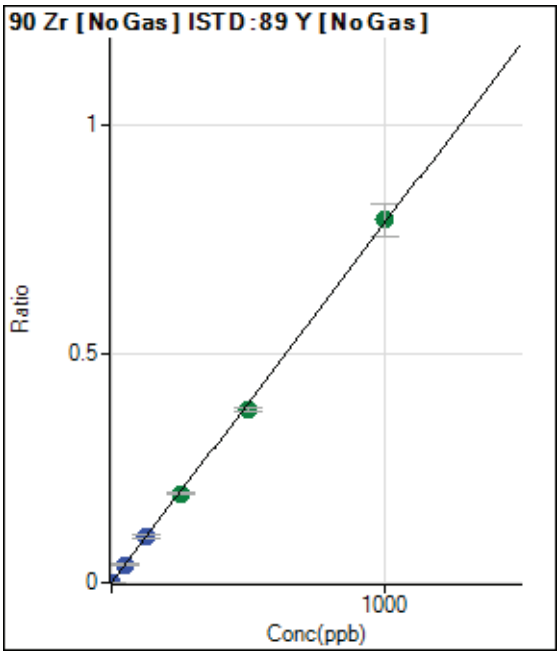
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	788.93	0.0001	P	21.7
2		1.000	0.904	12992.48	0.0011	P	3.6
3		625.000	1277.881	16171663.03	1.4592	A	7.5
4		3125.000	3234.830	39199335.95	3.6936	A	8.6
5		6250.000	6072.428	76217399.62	6.9336	A	3.6
6		12500.000	12049.721	151835599.2	13.7585	A	3.2
7		25000.000	25239.482	312222651.4	28.8187	A	6.9
8				75894.10	0.0072	P	16.8

y = 0.0011 * x + 6.4918E-005
R = 0.9993
DL = 0.03699
BEC = 0.05686

Weight: <None>
Min Conc: 0

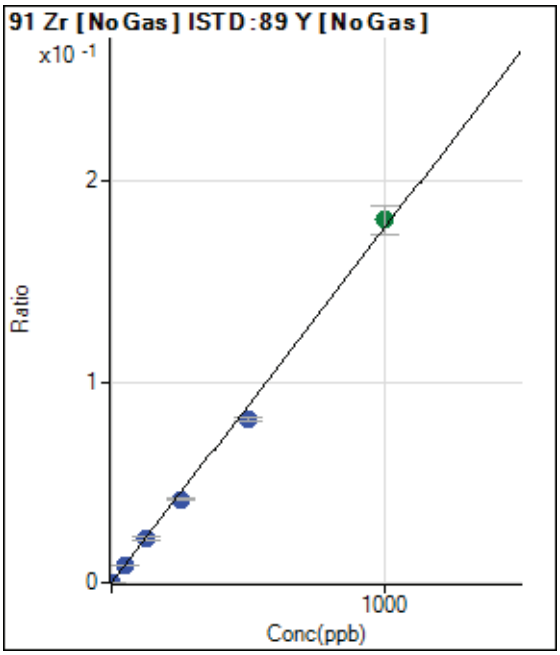


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	452.80	0.0000	P	3.3
2		1.000	0.802	7919.14	0.0007	P	9.3
3		50.000	49.731	434056.38	0.0392	P	6.9
4		125.000	126.812	1059009.83	0.0998	P	8.4
5		250.000	247.429	2140380.41	0.1947	A	2.4
6		500.000	481.359	4180522.06	0.3787	A	2.9
7		1000.000	1009.750	8598622.33	0.7943	A	8.8
8				5023.34	0.0005	P	8.1

y = 7.8663E-004 * x + 3.7318E-005
R = 0.9997
DL = 0.004753
BEC = 0.04744

Weight: <None>
Min Conc: 0

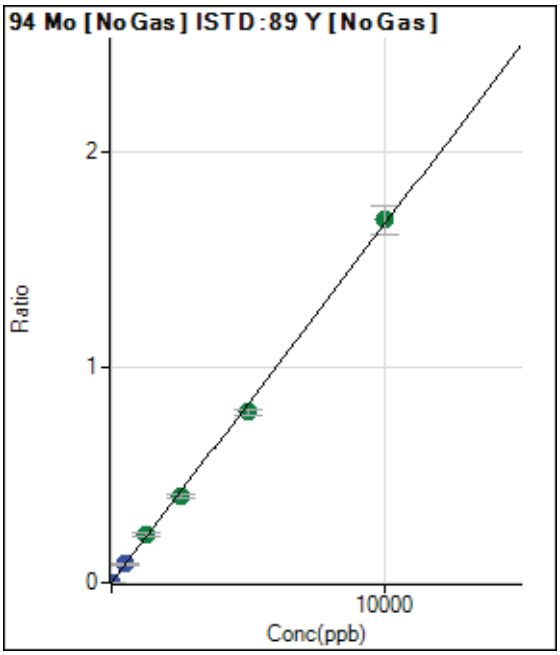
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.22	0.0000	P	57.1
2		1.000	0.816	1802.94	0.0002	P	7.4
3		50.000	49.482	96953.49	0.0088	P	8.0
4		125.000	125.772	236011.86	0.0222	P	7.6
5		250.000	234.074	454871.33	0.0414	P	1.9
6		500.000	460.982	899111.55	0.0815	P	2.5
7		1000.000	1023.420	1958471.09	0.1808	A	7.8
8				1166.76	0.0001	P	3.3

y = 1.7670E-004 * x + 8.0205E-006
R = 0.9987
DL = 0.07771
BEC = 0.04539

Weight: <None>
Min Conc: 0

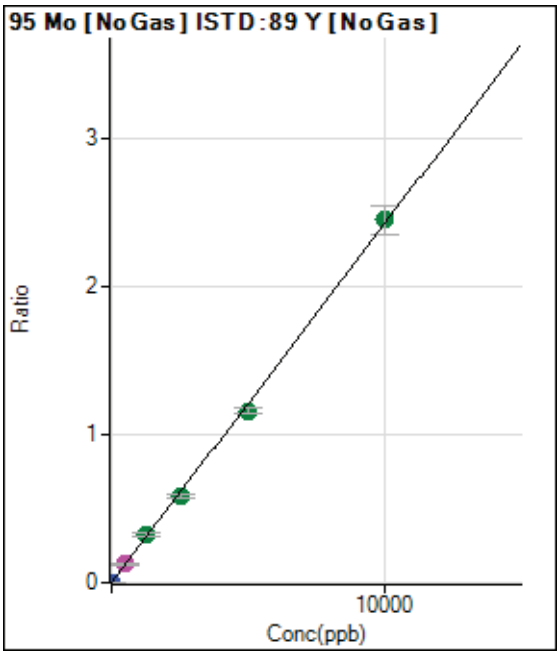


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.23	0.0000	P	39.3
2		5.000	5.135	10198.48	0.0009	P	3.1
3		500.000	514.489	947503.25	0.0855	P	7.6
4		1250.000	1338.814	2361455.72	0.2225	A	8.0
5		2500.000	2421.745	4424382.08	0.4025	A	3.2
6		5000.000	4765.724	8739875.11	0.7920	A	3.5
7		10000.000	10124.876	18219974.71	1.6826	A	8.0
8				7583.45	0.0007	P	12.0

y = 1.6618E-004 * x + 7.9901E-006
R = 0.9995
DL = 0.05667
BEC = 0.04808

Weight: <None>
Min Conc: 0

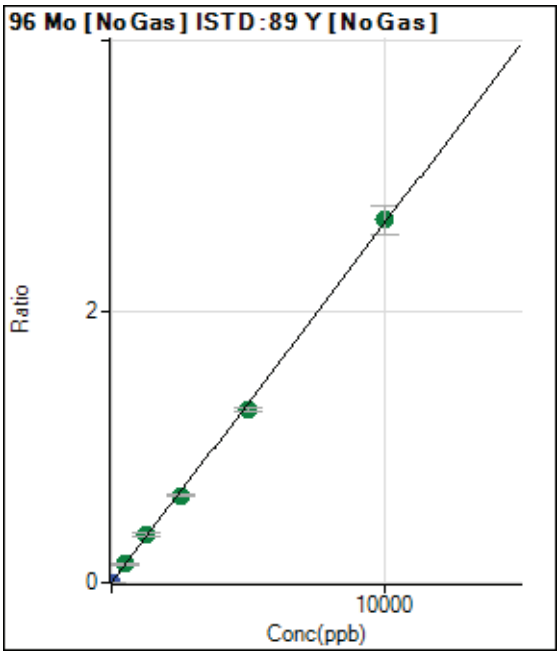
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	64.5
2		5.000	4.346	12492.05	0.0011	P	2.0
3		500.000	521.958	1402829.65	0.1265	M	5.9
4		1250.000	1331.530	3424512.99	0.3227	A	8.2
5		2500.000	2417.113	6439236.69	0.5857	A	3.1
6		5000.000	4793.704	12820952.98	1.1617	A	3.0
7		10000.000	10112.581	26540351.46	2.4506	A	7.8
8				9697.12	0.0009	P	7.1

y = 2.4233E-004 * x + 1.5982E-006
R = 0.9996
DL = 0.01275
BEC = 0.006595

Weight: <None>
Min Conc: 0

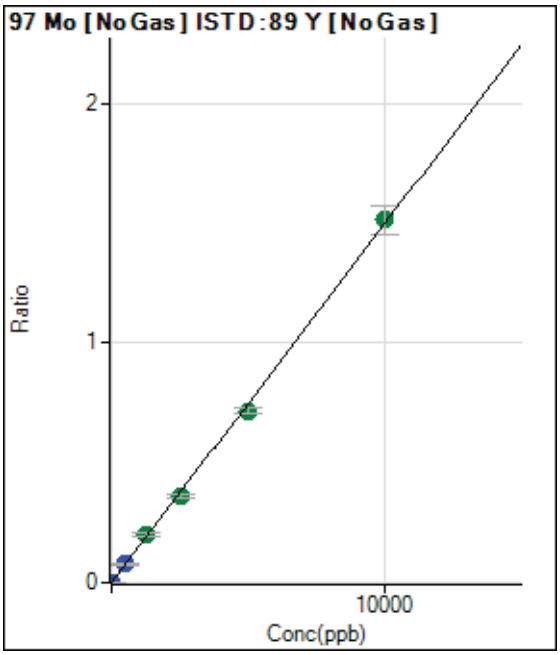


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	52.6
2		5.000	4.424	13951.80	0.0012	P	1.5
3		500.000	526.939	1546705.06	0.1396	A	7.5
4		1250.000	1331.101	3741091.10	0.3526	A	8.6
5		2500.000	2424.997	7061547.99	0.6423	A	2.6
6		5000.000	4813.106	14069251.88	1.2748	A	2.9
7		10000.000	10100.714	28974517.66	2.6753	A	7.7
8				11468.58	0.0011	P	8.8

y = 2.6486E-004 * x + 6.4040E-006
R = 0.9996
DL = 0.03812
BEC = 0.02418

Weight: <None>
Min Conc: 0

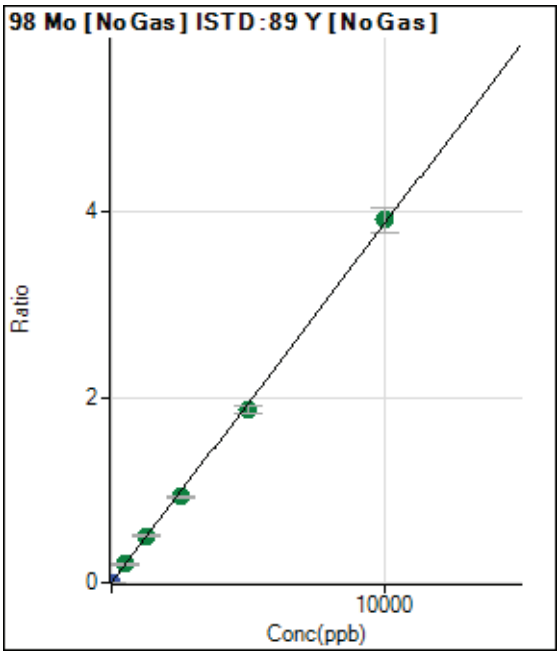
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	13.89	0.0000	P	173.
2		5.000	4.289	7618.97	0.0006	P	2.1
3		500.000	515.462	855123.19	0.0772	P	8.2
4		1250.000	1323.875	2103208.38	0.1983	A	9.0
5		2500.000	2413.645	3973036.85	0.3614	A	3.9
6		5000.000	4788.550	7914238.37	0.7171	A	2.9
7		10000.000	10117.307	16408439.60	1.5151	A	7.7
8				6179.89	0.0006	P	7.9

y = 1.4975E-004 * x + 1.1623E-006
R = 0.9996
DL = 0.04033
BEC = 0.007762

Weight: <None>
Min Conc: 0

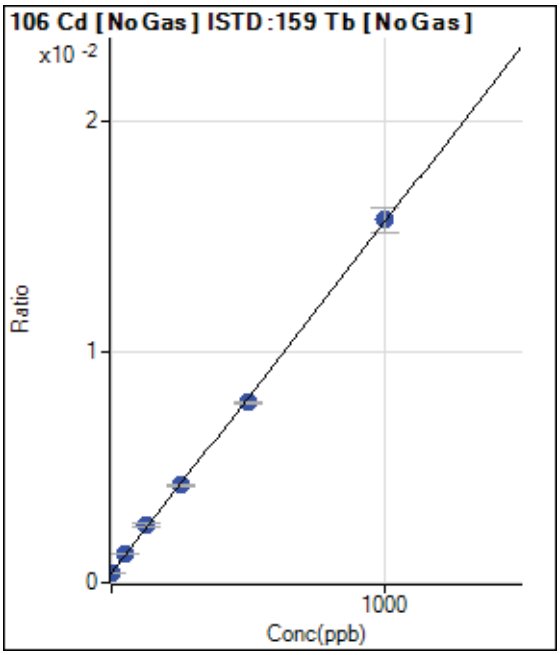


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	41.67	0.0000	P	52.7
2		5.000	4.403	20254.15	0.0017	P	3.8
3		500.000	524.856	2254053.00	0.2035	A	8.4
4		1250.000	1309.056	5387929.72	0.5075	A	7.6
5		2500.000	2399.565	10227669.85	0.9304	A	3.1
6		5000.000	4815.017	20600312.96	1.8669	A	3.8
7		10000.000	10108.976	42464659.98	3.9194	A	7.0
8				15731.31	0.0015	P	16.9

y = 3.8772E-004 * x + 3.4356E-006
R = 0.9996
DL = 0.01401
BEC = 0.008861

Weight: <None>
Min Conc: 0

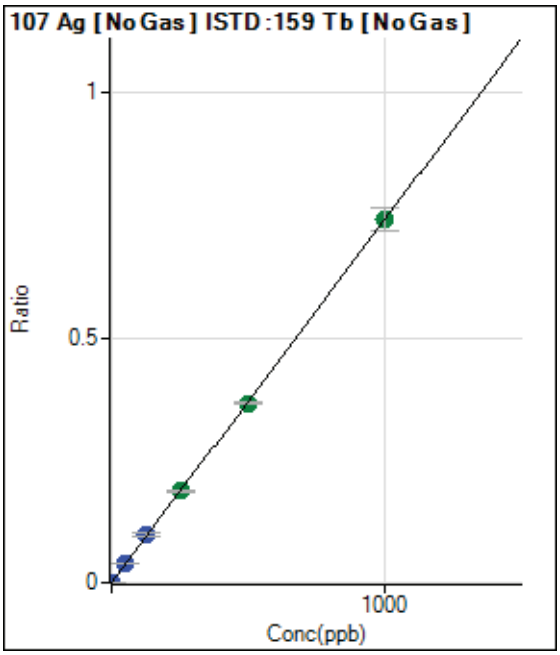
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	4056.27	0.0004	P	5.6
2		1.000	-0.389	4006.24	0.0004	P	8.5
3		50.000	51.945	10787.84	0.0012	P	2.3
4		125.000	137.207	21086.11	0.0025	P	7.8
5		250.000	249.627	36774.93	0.0042	P	1.9
6		500.000	484.423	68914.30	0.0078	P	1.8
7		1000.000	1006.260	136160.71	0.0157	P	6.9
8				3356.06	0.0004	P	4.0

y = 1.5172E-005 * x + 4.3926E-004
R = 0.9997
DL = 4.821
BEC = 28.95

Weight: <None>
Min Conc: 0

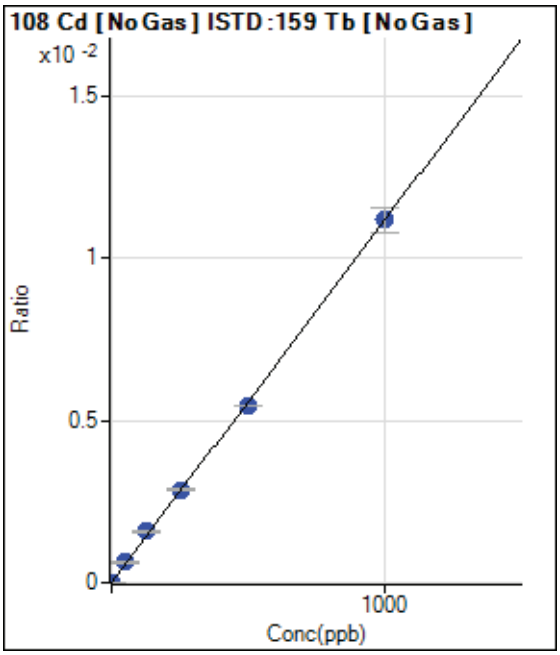


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	41.0
2		1.000	0.956	6621.19	0.0007	P	3.0
3		50.000	52.715	342870.51	0.0391	P	5.0
4		125.000	132.985	824751.23	0.0985	P	6.2
5		250.000	253.191	1632364.13	0.1876	A	2.2
6		500.000	495.488	3248248.51	0.3671	A	1.1
7		1000.000	1000.325	6426623.15	0.7412	A	6.4
8				1161.19	0.0001	P	17.4

y = 7.4091E-004 * x + 8.3755E-006
R = 0.9999
DL = 0.01392
BEC = 0.0113

Weight: <None>
Min Conc: 0

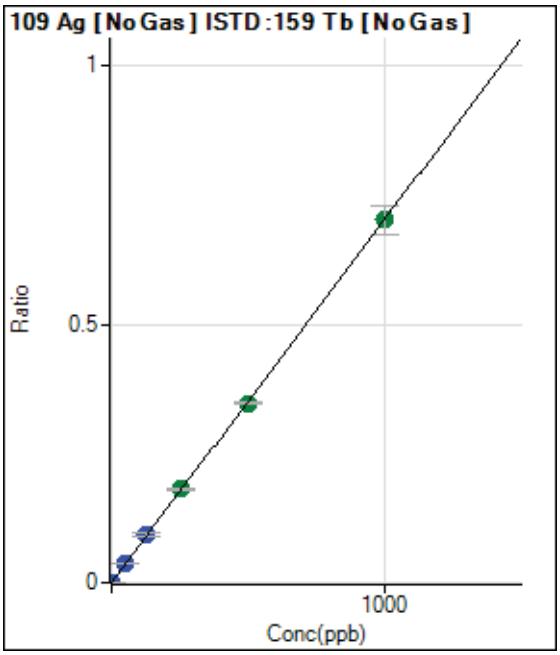
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	18.06	0.0000	P	13.9
2		1.000	0.981	119.45	0.0000	P	15.0
3		50.000	55.750	5478.93	0.0006	P	7.7
4		125.000	140.731	13178.68	0.0016	P	5.6
5		250.000	256.009	24900.42	0.0029	P	2.8
6		500.000	489.309	48387.62	0.0055	P	0.2
7		1000.000	1001.589	97036.29	0.0112	P	6.6
8				95.84	0.0000	P	7.8

y = 1.1172E-005 * x + 1.9565E-006
R = 0.9998
DL = 0.07316
BEC = 0.1751

Weight: <None>
Min Conc: 0

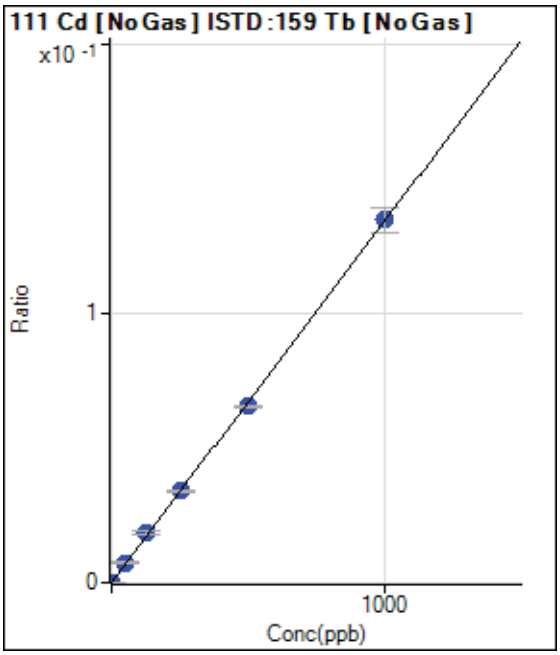


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	38.89	0.0000	P	33.3
2		1.000	0.934	6104.30	0.0007	P	2.9
3		50.000	52.232	321974.90	0.0367	P	6.6
4		125.000	133.677	785630.96	0.0939	P	8.1
5		250.000	258.033	1577344.48	0.1813	A	2.7
6		500.000	494.477	3074513.85	0.3475	A	0.8
7		1000.000	999.557	6086561.16	0.7024	A	8.1
8				1075.07	0.0001	P	10.0

y = 7.0267E-004 * x + 4.2142E-006
R = 0.9999
DL = 0.005998
BEC = 0.005997

Weight: <None>
Min Conc: 0

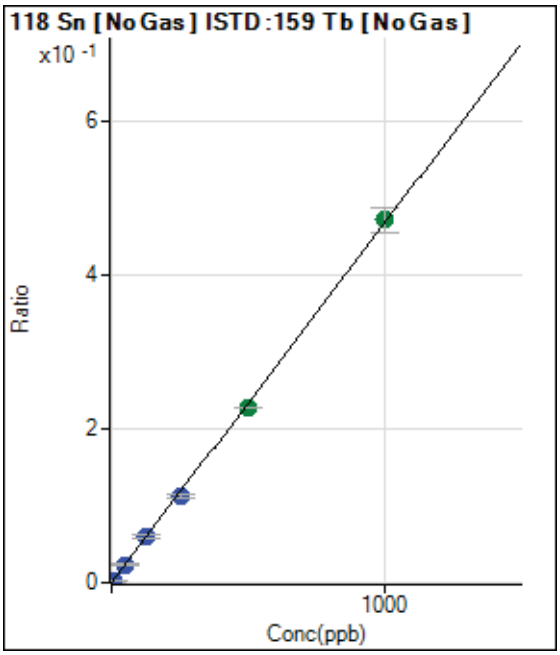
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	399.93	0.0000	P	4.8
2		1.000	0.910	1529.59	0.0002	P	5.0
3		50.000	54.070	64106.60	0.0073	P	5.5
4		125.000	138.137	155500.79	0.0186	P	8.5
5		250.000	253.951	297086.91	0.0341	P	2.6
6		500.000	487.127	579234.42	0.0655	P	1.1
7		1000.000	1003.603	1168861.51	0.1348	P	7.0
8				925.49	0.0001	P	5.3

y = 1.3430E-004 * x + 4.3302E-005
R = 0.9998
DL = 0.04613
BEC = 0.3224

Weight: <None>
Min Conc: 0

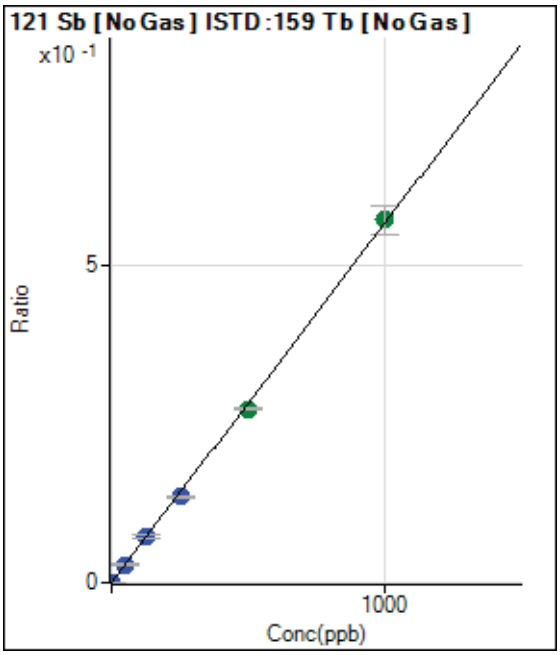


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1150.08	0.0001	P	5.9
2		5.000	4.367	19998.44	0.0022	P	1.4
3		50.000	50.468	207905.42	0.0237	P	6.2
4		125.000	128.767	503778.28	0.0603	P	9.7
5		250.000	241.551	982390.00	0.1130	P	4.1
6		500.000	485.149	2006356.34	0.2267	A	0.2
7		1000.000	1009.047	4087329.43	0.4715	A	6.9
8				3325.72	0.0004	P	1.0

y = 4.6711E-004 * x + 1.2451E-004
R = 0.9998
DL = 0.0468
BEC = 0.2666

Weight: <None>
Min Conc: 0

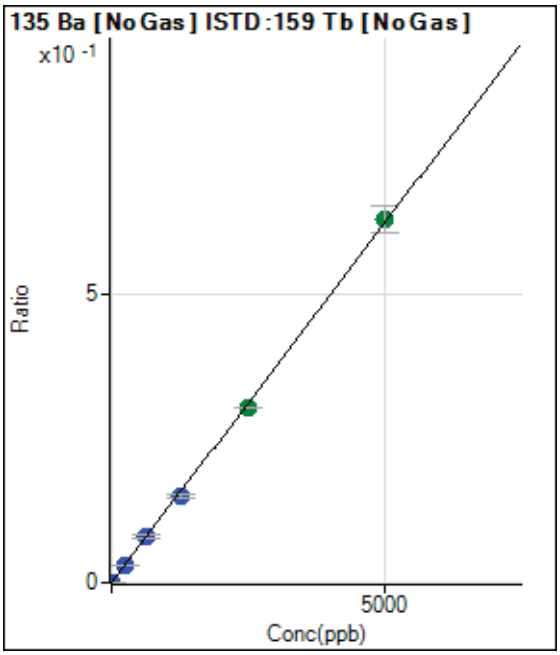
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	8.33	0.0000	P	98.7
2		2.000	1.772	9289.49	0.0010	P	4.4
3		50.000	49.584	246587.72	0.0281	P	6.8
4		125.000	127.626	605171.75	0.0724	P	8.2
5		250.000	239.823	1182853.35	0.1360	P	2.9
6		500.000	483.180	2423906.59	0.2740	A	1.1
7		1000.000	1010.647	4965539.91	0.5730	A	8.1
8				3156.07	0.0004	P	20.9

y = 5.6697E-004 * x + 8.9398E-007
R = 0.9997
DL = 0.004667
BEC = 0.001577

Weight: <None>
Min Conc: 0

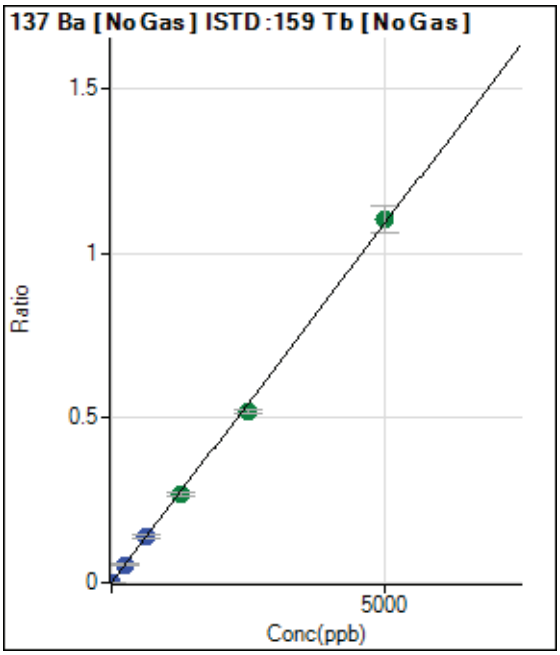


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.45	0.0000	P	8.7
2		10.000	8.678	10001.29	0.0011	P	3.8
3		250.000	246.750	269003.97	0.0306	P	4.8
4		625.000	638.835	663448.28	0.0793	P	8.4
5		1250.000	1205.523	1302285.81	0.1497	P	3.2
6		2500.000	2423.922	2663568.10	0.3010	A	0.1
7		5000.000	5047.594	5433437.58	0.6268	A	7.4
8				3792.41	0.0005	P	4.0

y = 1.2418E-004 * x + 4.8070E-006
R = 0.9998
DL = 0.01013
BEC = 0.03871

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	58.33	0.0000	P	15.6
2		10.000	9.221	18641.14	0.0020	P	6.2
3		250.000	249.862	478092.41	0.0545	P	5.4
4		625.000	645.538	1177185.99	0.1407	P	7.9
5		1250.000	1235.843	2343625.90	0.2694	A	3.5
6		2500.000	2391.120	4612181.27	0.5213	A	2.0
7		5000.000	5055.421	9553340.06	1.1022	A	7.5
8				6891.35	0.0008	P	6.7

y = 2.1802E-004 * x + 6.3265E-006

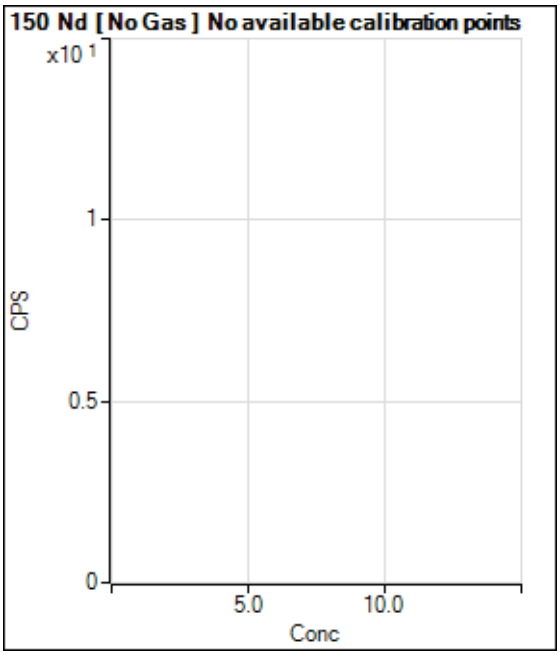
R = 0.9996

DL = 0.01361

BEC = 0.02902

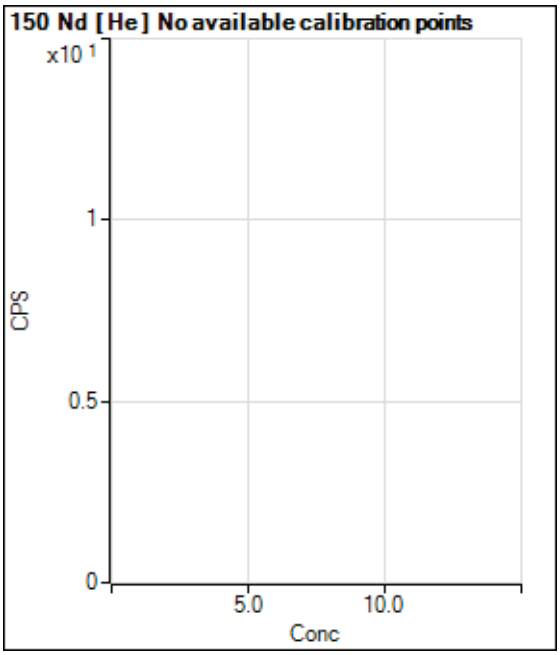
Weight: <None>

Min Conc: 0

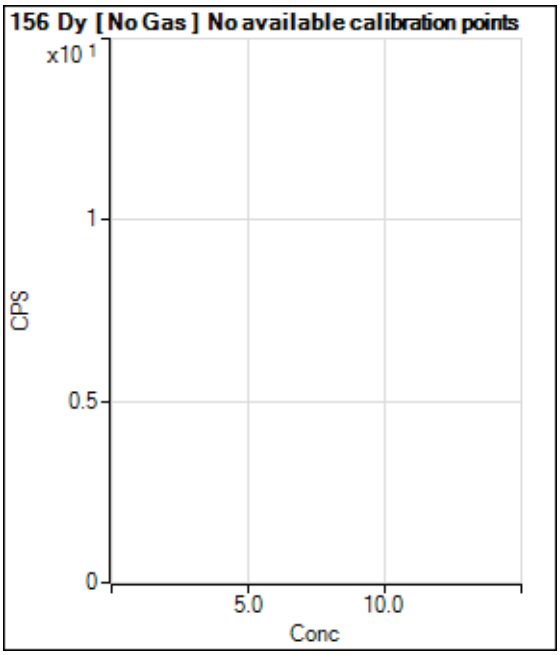


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				8.89		P	114.
2				15.55		P	24.8
3				24.44		P	31.5
4				71.11		P	46.3
5				102.23		P	7.5
6				177.78		P	13.2
7				320.01		P	9.5
8				200.01		P	NaN

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

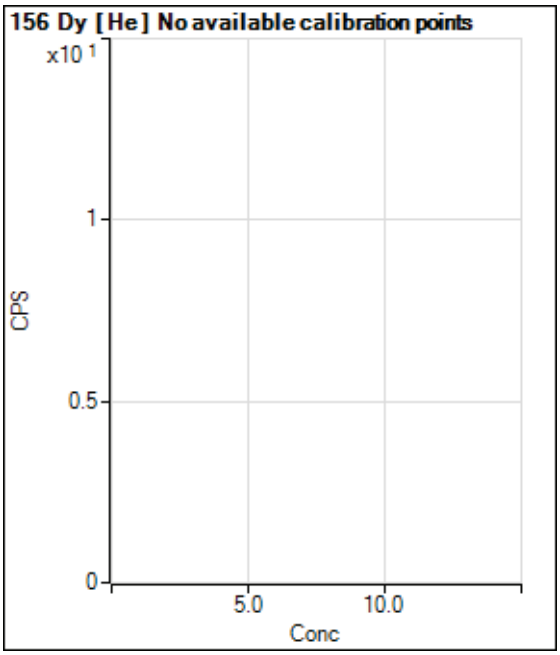


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	173.
2				3.33		P	0.0
3				4.44		P	43.4
4				8.89		P	21.6
5				10.00		P	33.3
6				12.22		P	15.7
7				48.89		P	19.7
8				53.33		P	33.1

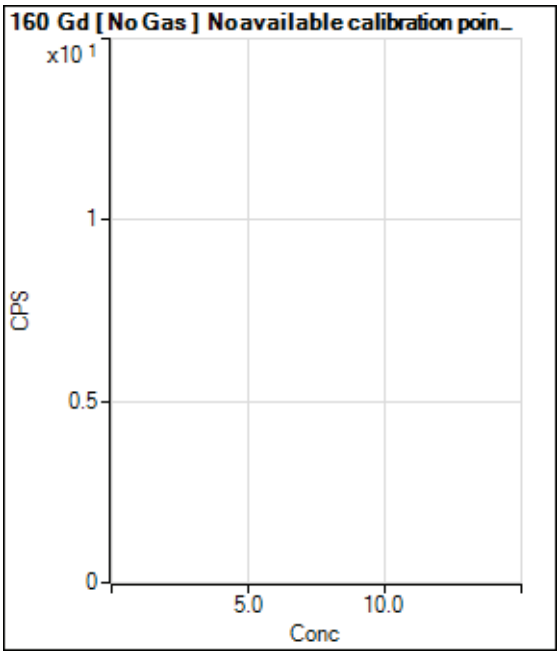


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				13.89		P	34.7
2				5.56		P	173.
3				19.45		P	24.7
4				86.12		P	24.4
5				111.11		P	11.5
6				175.01		P	36.0
7				363.90		P	25.7
8				1055.63		P	4.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

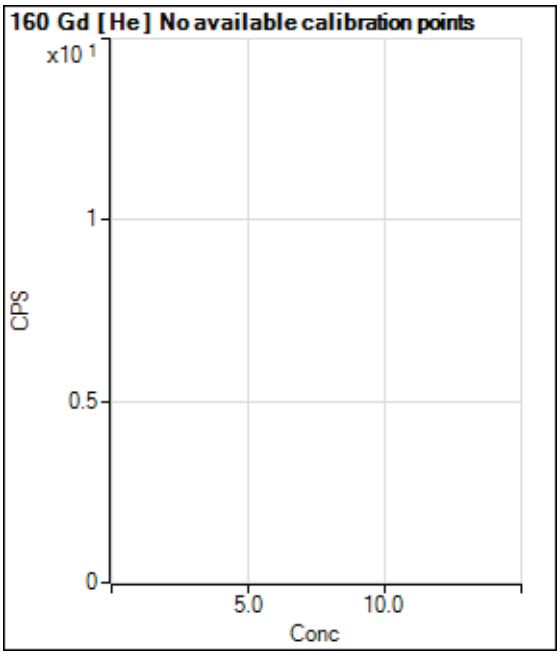


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	86.6
2				4.44		P	114.
3				10.00		P	66.7
4				26.67		P	45.1
5				32.22		P	6.0
6				77.78		P	17.8
7				180.00		P	18.8
8				497.79		P	0.4

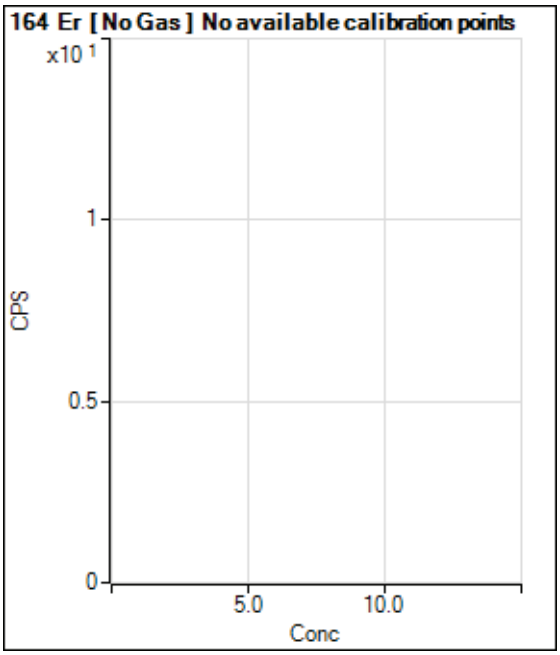


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				111.11		P	8.7
2				86.11		P	31.1
3				77.78		P	48.3
4				102.78		P	20.4
5				186.12		P	24.7
6				225.01		P	14.8
7				325.01		P	13.6
8				1183.42		P	10.2

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

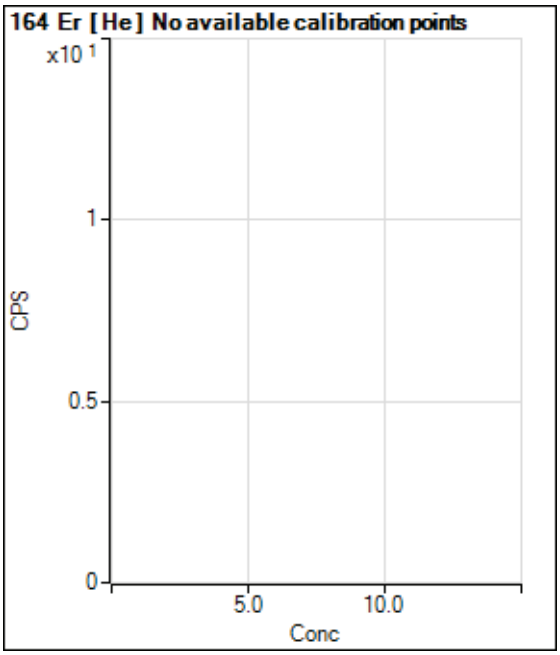


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				130.00		P	9.2
2				100.00		P	23.3
3				114.45		P	8.9
4				161.12		P	12.1
5				147.78		P	14.7
6				196.67		P	11.1
7				291.12		P	15.8
8				796.70		P	9.1

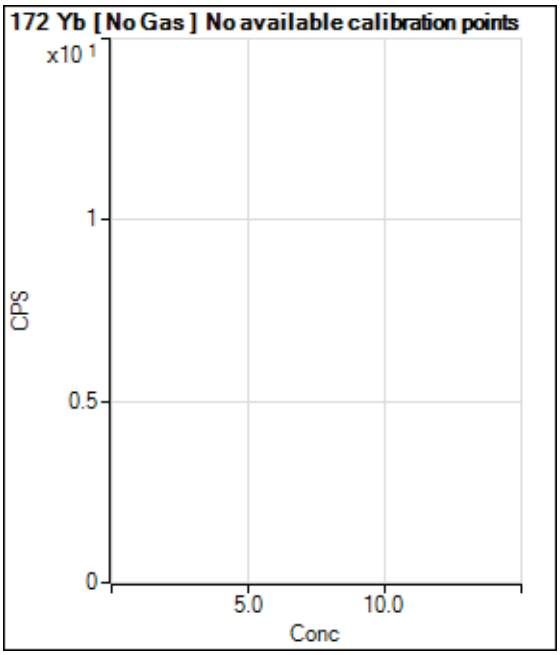


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				55.56		P	17.3
2				55.56		P	48.2
3				61.11		P	41.7
4				66.67		P	12.5
5				77.78		P	16.4
6				125.01		P	17.6
7				200.01		P	23.2
8				194.45		P	20.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

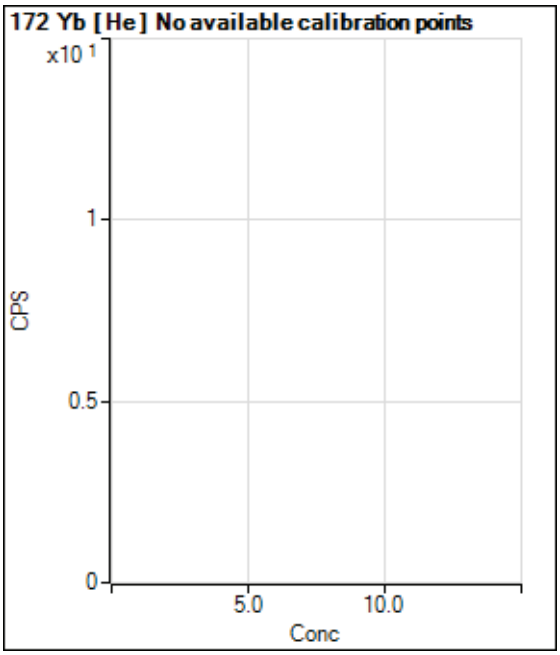


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				20.00		P	57.7
2				24.45		P	28.4
3				21.11		P	59.8
4				25.56		P	32.8
5				33.33		P	17.3
6				44.45		P	35.4
7				56.67		P	17.6
8				107.78		P	44.2

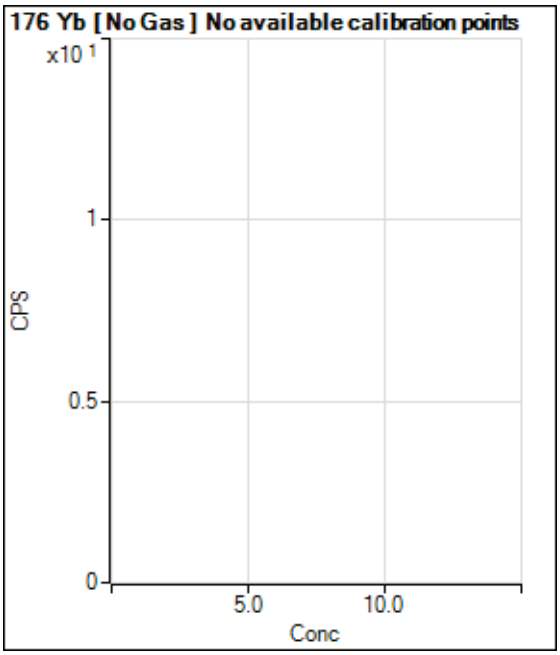


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				58.34		P	37.8
2				66.67		P	12.5
3				66.67		P	12.5
4				72.23		P	26.7
5				100.01		P	14.4
6				150.00		P	5.6
7				191.67		P	15.7
8				155.56		P	38.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

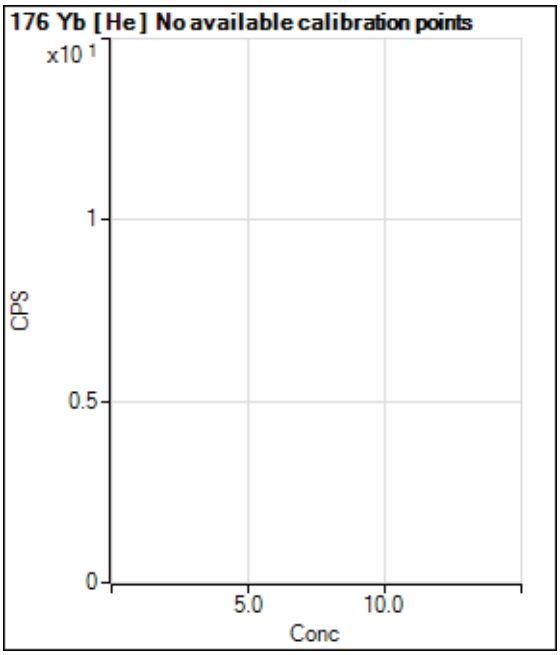


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				37.04		P	22.9
2				18.52		P	62.4
3				29.63		P	10.8
4				61.11		P	36.4
5				50.00		P	11.1
6				85.19		P	30.1
7				122.23		P	16.4
8				66.67		P	14.4

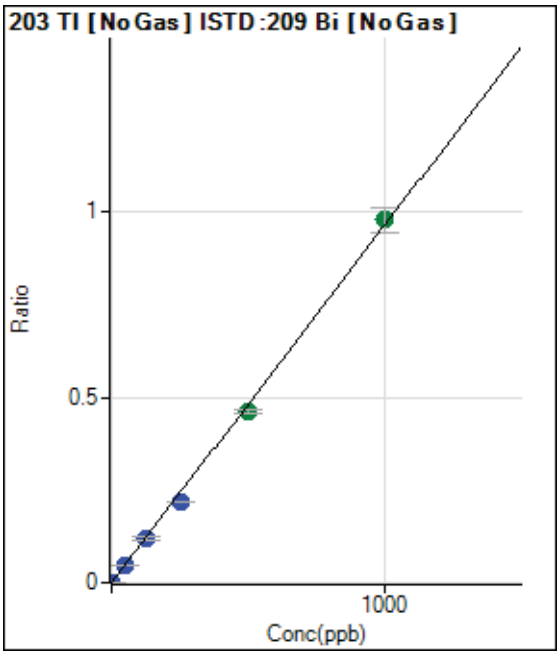


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1450.12		P	2.5
2				1450.13		P	14.5
3				2361.40		P	9.0
4				4248.01		P	4.8
5				7079.84		P	3.9
6				12828.78		P	3.5
7				25639.48		P	2.0
8				1391.78		P	11.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				10070.66		P	3.1
2				9731.51		P	4.5
3				9627.73		P	1.8
4				9879.79		P	1.0
5				11697.98		P	4.0
6				14224.54		P	1.4
7				19459.03		P	1.7
8				9679.61		P	1.5

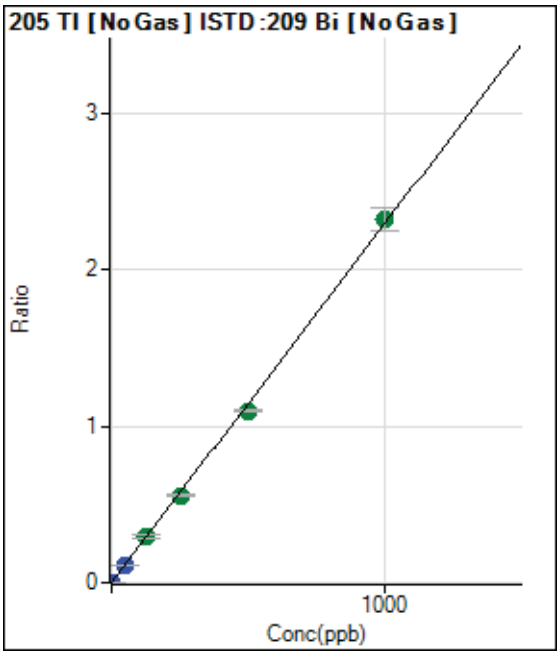


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.44	0.0000	P	22.0
2		1.000	0.841	5198.41	0.0008	P	4.5
3		50.000	48.050	278594.21	0.0463	P	8.5
4		125.000	123.877	694183.61	0.1192	P	7.0
5		250.000	226.963	1345888.70	0.2185	P	1.4
6		500.000	480.048	2840542.45	0.4620	A	2.1
7		1000.000	1015.973	5774780.03	0.9778	A	6.8
8				1614.06	0.0003	P	4.8

y = 9.6246E-004 * x + 6.9558E-006
R = 0.9994
DL = 0.004776
BEC = 0.007227

Weight: <None>
Min Conc: 0

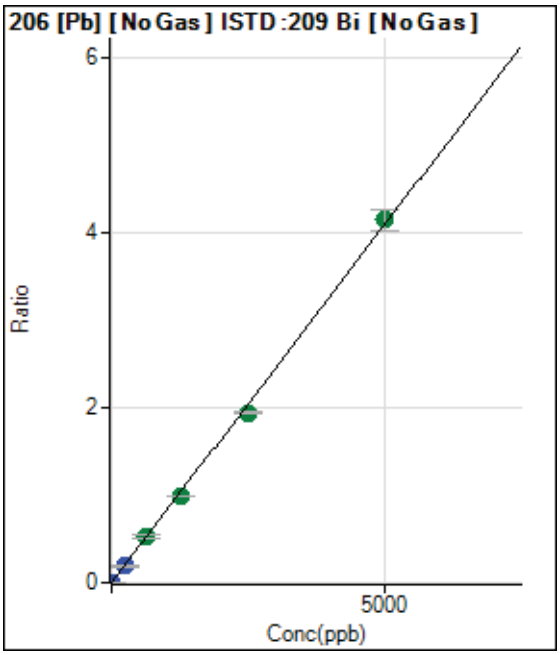
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	186.12	0.0000	P	16.6
2		1.000	0.883	13070.91	0.0021	P	1.2
3		50.000	47.993	662478.07	0.1101	P	9.8
4		125.000	130.521	1741112.63	0.2993	A	8.7
5		250.000	243.467	3439669.87	0.5582	A	0.5
6		500.000	478.942	6750475.50	1.0980	A	1.4
7		1000.000	1011.573	13698404.82	2.3191	A	6.5
8				4131.52	0.0008	P	5.4

y = 0.0023 * x + 2.9099E-005
R = 0.9996
DL = 0.006323
BEC = 0.01269

Weight: <None>
Min Conc: 0

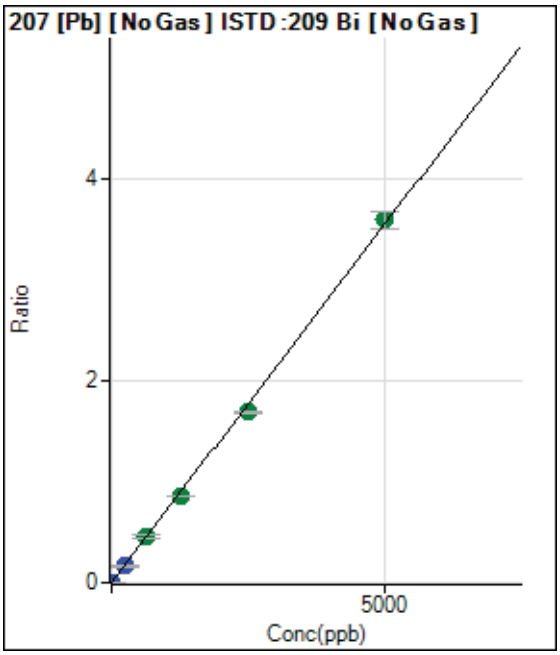


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	651.88	0.0001	P	8.2
2		1.000	0.849	5069.59	0.0008	P	1.3
3		250.000	234.630	1156358.40	0.1920	P	8.6
4		625.000	653.547	3112666.16	0.5346	A	6.8
5		1250.000	1210.719	6101427.05	0.9903	A	0.6
6		2500.000	2373.779	11935490.31	1.9414	A	1.4
7		5000.000	5070.131	24500926.01	4.1466	A	5.5
8				12600.47	0.0024	P	3.2

y = 8.1783E-004 * x + 1.0194E-004
R = 0.9995
DL = 0.03081
BEC = 0.1247

Weight: <None>
Min Conc: 0

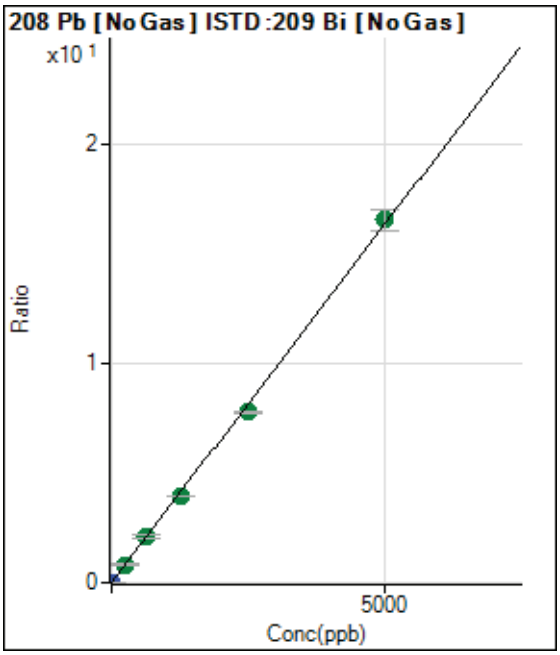
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	557.43	0.0001	P	5.9
2		1.000	0.854	4404.54	0.0007	P	3.9
3		250.000	235.112	1004484.19	0.1667	P	7.4
4		625.000	648.938	2675715.48	0.4599	A	8.7
5		1250.000	1208.510	5276119.73	0.8564	A	1.1
6		2500.000	2383.559	10383160.88	1.6889	A	1.5
7		5000.000	5066.345	21214783.34	3.5897	A	5.1
8				10896.18	0.0020	P	8.7

y = 7.0853E-004 * x + 8.7189E-005
R = 0.9995
DL = 0.02174
BEC = 0.1231

Weight: <None>
Min Conc: 0

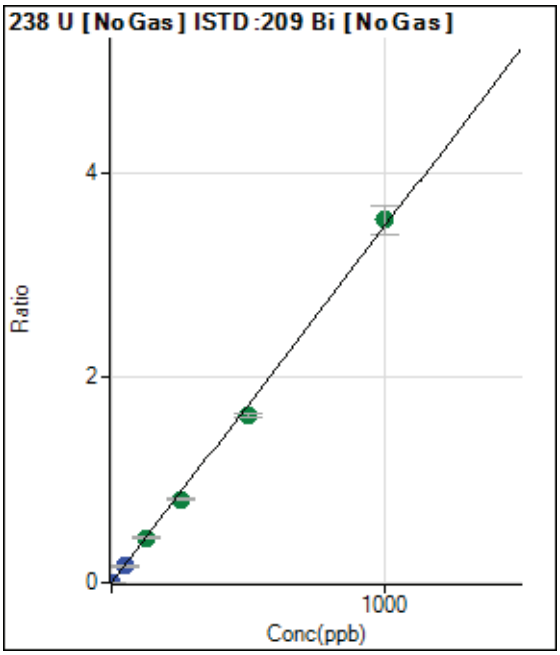


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2594.60	0.0004	P	2.1
2		1.000	0.841	20074.96	0.0032	P	2.2
3		250.000	246.724	4857126.80	0.8063	A	8.2
4		625.000	645.757	12276075.94	2.1096	A	8.2
5		1250.000	1209.189	24336955.29	3.9499	A	0.7
6		2500.000	2379.131	47777896.90	7.7712	A	1.0
7		5000.000	5068.207	97811839.22	16.5543	A	5.6
8				50987.96	0.0096	P	4.7

y = 0.0033 * x + 4.0581E-004
R = 0.9995
DL = 0.007974
BEC = 0.1242

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	49.7
2		1.000	0.833	18416.62	0.0029	P	4.2
3		50.000	46.996	982838.76	0.1631	P	8.1
4		125.000	126.287	2552268.22	0.4384	A	7.1
5		250.000	234.390	5012756.10	0.8136	A	1.4
6		500.000	470.288	10037671.84	1.6325	A	2.3
7		1000.000	1018.748	20872726.85	3.5364	A	8.3
8				4078.86	0.0008	P	7.7

y = 0.0035 * x + 3.0456E-006

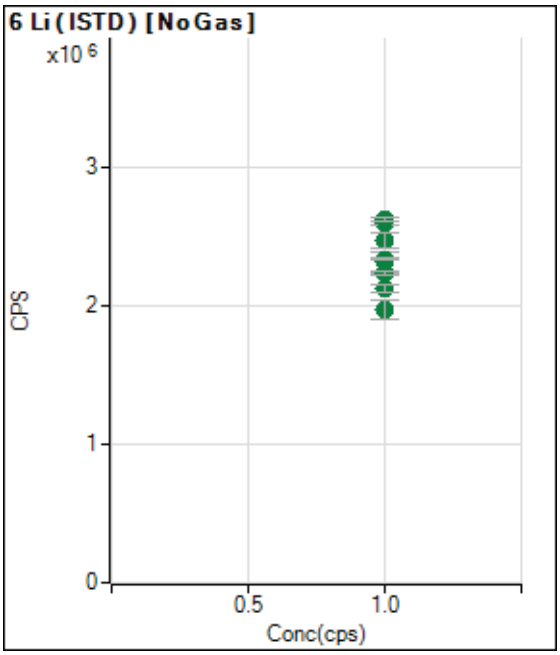
R = 0.9992

DL = 0.001309

BEC = 0.0008774

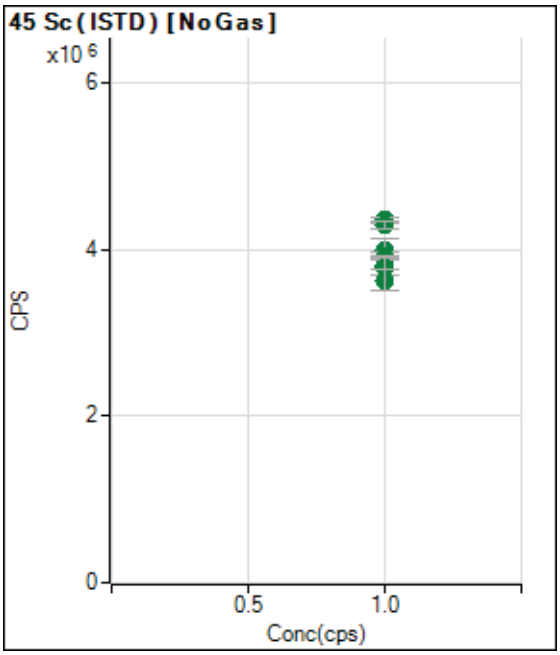
Weight: <None>

Min Conc: 0

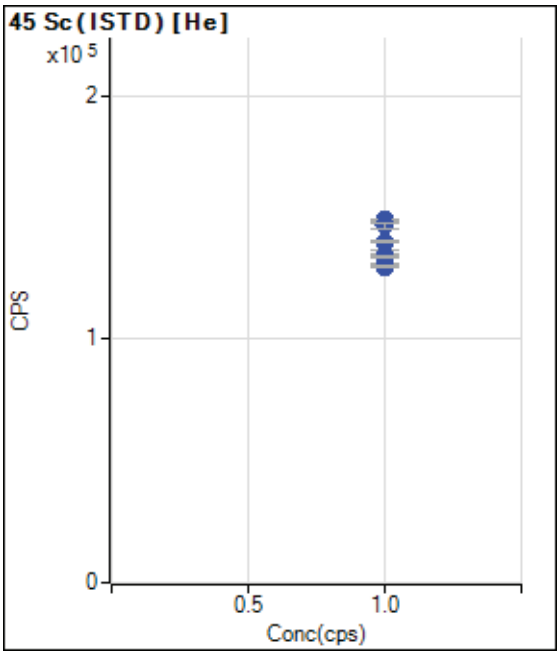


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2603032.20		A	1.0
2		1.000		2623846.94		A	0.9
3		1.000		2476707.42		A	4.4
4		1.000		2320087.36		A	6.7
5		1.000		2340265.67		A	0.9
6		1.000		2239711.47		A	1.8
7		1.000		2124741.75		A	3.0
8		1.000		1974910.39		A	7.0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4354339.21		A	1.6
2		1.000		4291225.14		A	1.9
3		1.000		4000697.19		A	6.2
4		1.000		3811369.08		A	6.4
5		1.000		3926135.50		A	1.8
6		1.000		3904489.28		A	1.3
7		1.000		3795074.73		A	5.1
8		1.000		3627130.68		A	7.2



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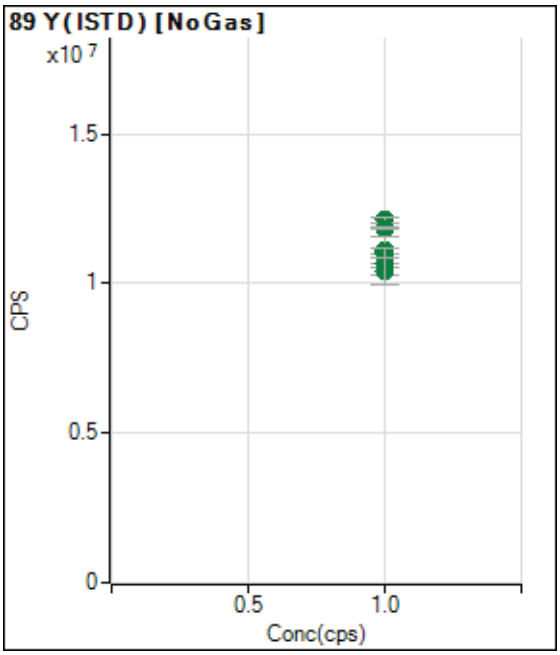
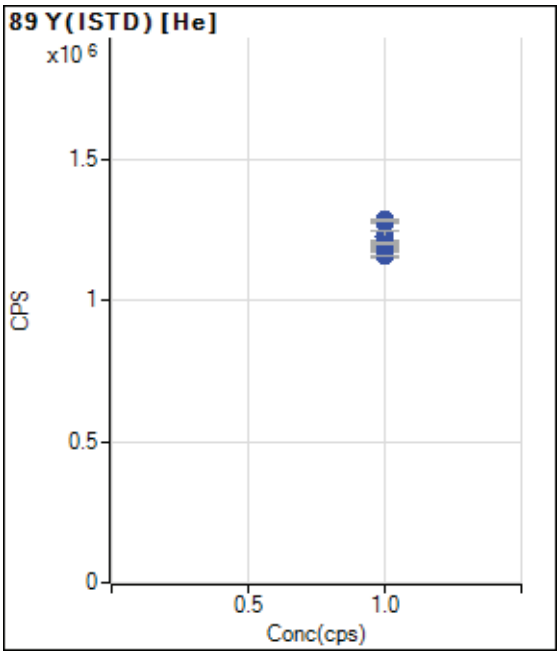
1		1.000		148863.48		P	0.6
2		1.000		146575.32		P	1.7
3		1.000		140030.43		P	0.9
4		1.000		134510.23		P	0.9
5		1.000		133351.78		P	4.1
6		1.000		129639.02		P	0.4
7		1.000		134098.09		P	1.3
8		1.000		133836.89		P	0.7

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

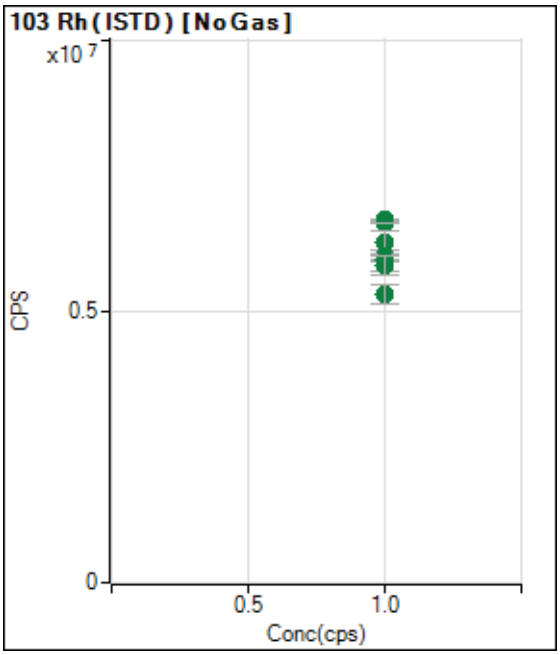


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		12130107.46		A	1.4
2		1.000		11841834.96		A	0.5
3		1.000		11123813.31		A	7.6
4		1.000		10651010.88		A	6.6
5		1.000		10999835.60		A	2.9
6		1.000		11042027.68		A	2.7
7		1.000		10865748.59		A	6.4
8		1.000		10413027.97		A	8.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1275974.76		P	0.5
2		1.000		1284286.62		P	0.5
3		1.000		1227872.11		P	2.7
4		1.000		1176561.98		P	0.5
5		1.000		1199825.75		M	8.1
6		1.000		1156567.87		P	0.1
7		1.000		1189821.89		P	0.6
8		1.000		1199068.12		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



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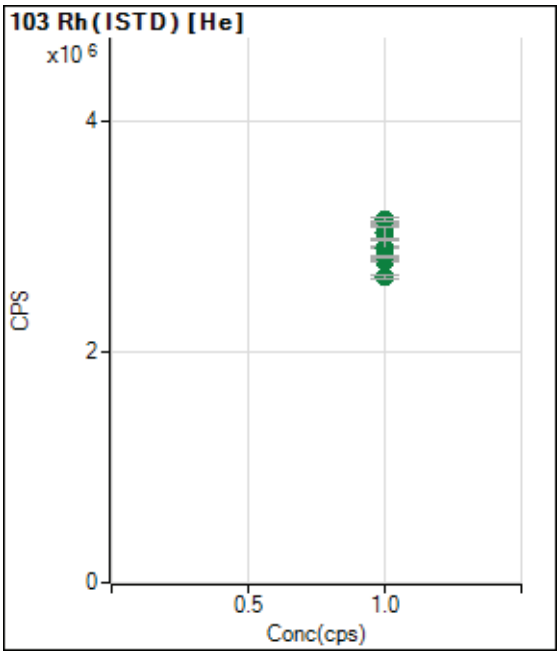
2		1.000		6622575.97		A	0.3
3		1.000		6263544.67		A	6.3
4		1.000		5938899.09		A	6.6
5		1.000		6005473.66		A	1.6
6		1.000		5958188.50		A	2.1
7		1.000		5837414.06		A	5.9
8		1.000		5306734.97		A	6.8



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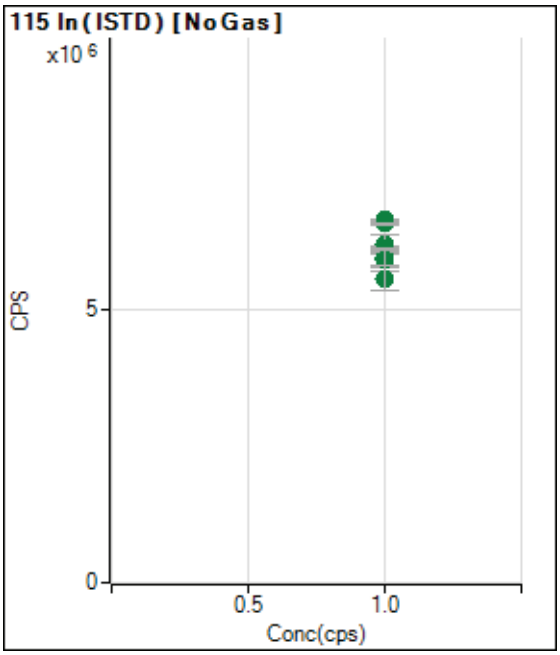
1		1.000		3114670.75		A	0.6
2		1.000		3146957.73		A	1.2
3		1.000		3034344.64		A	3.1
4		1.000		2905751.49		A	0.4
5		1.000		2903493.64		A	4.9
6		1.000		2792840.93		A	0.8
7		1.000		2827706.45		A	1.0
8		1.000		2656534.92		A	1.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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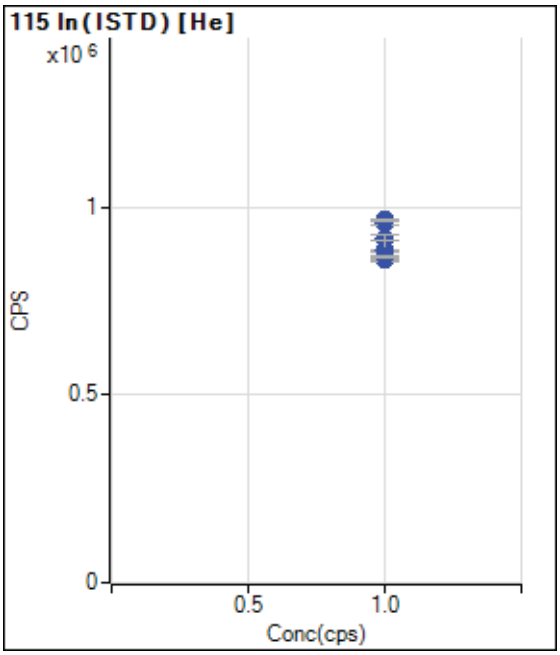
2		1.000		6587001.59		A	0.7
3		1.000		6204830.67		A	5.6
4		1.000		5959874.15		A	5.2
5		1.000		6141761.97		A	0.7
6		1.000		6097470.25		A	0.6
7		1.000		5933258.15		A	6.7
8		1.000		5593864.69		A	7.7



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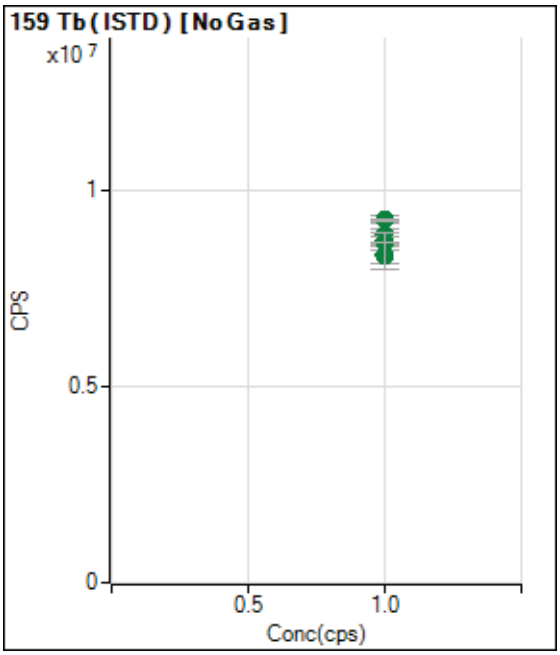
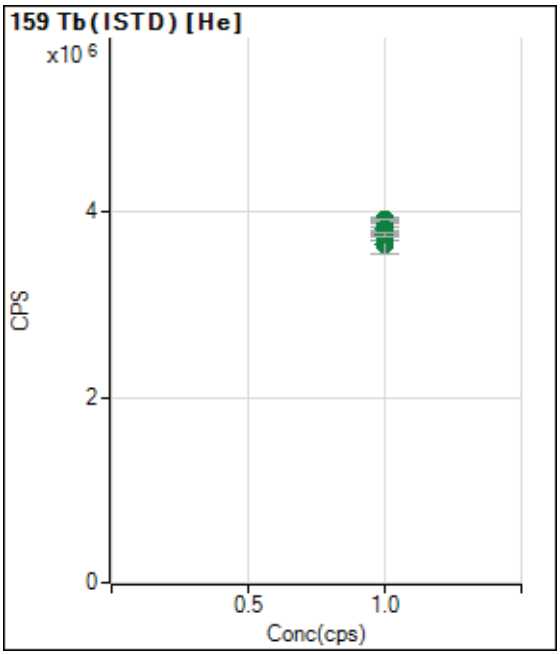
1		1.000		959068.76		P	0.6
2		1.000		967323.42		P	0.2
3		1.000		919145.54		P	1.5
4		1.000		884820.23		P	0.4
5		1.000		886993.07		P	5.5
6		1.000		860787.32		P	0.6
7		1.000		871186.62		P	0.2
8		1.000		871080.35		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9235681.18		A	2.1
2		1.000		9240800.70		A	0.8
3		1.000		8792578.13		A	5.4
4		1.000		8390581.40		A	6.0
5		1.000		8704279.11		A	3.1
6		1.000		8848541.12		A	1.1
7		1.000		8690576.96		A	5.3
8		1.000		8319441.61		A	8.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3919389.80		A	1.4
2		1.000		3916865.43		A	0.7
3		1.000		3819436.40		A	0.8
4		1.000		3734282.48		A	1.4
5		1.000		3662839.39		A	5.6
6		1.000		3757439.94		A	1.2
7		1.000		3793328.80		A	0.5
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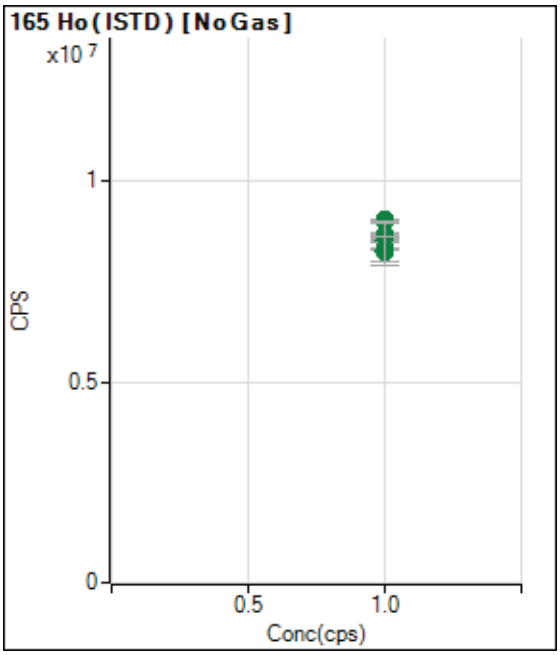
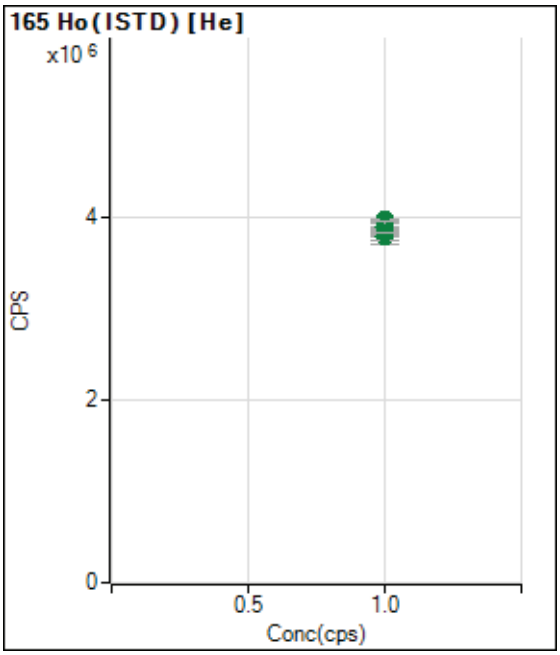
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

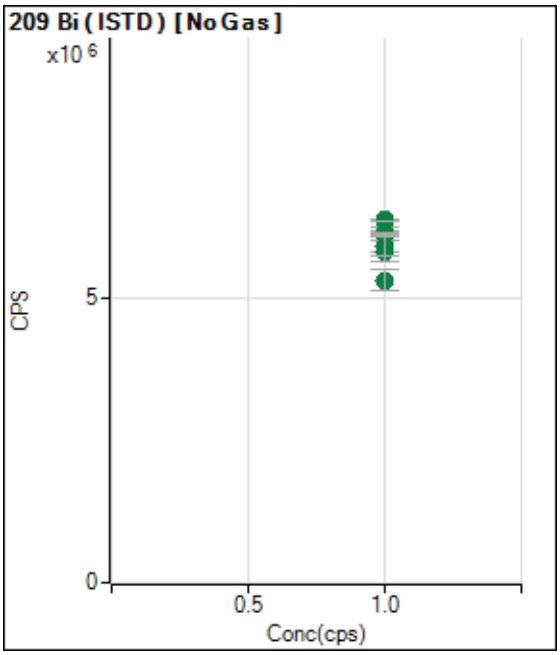


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9043296.91		A	0.6
2		1.000		8998541.69		A	0.3
3		1.000		8503689.25		A	5.0
4		1.000		8266835.43		A	6.7
5		1.000		8545550.63		A	0.9
6		1.000		8690898.20		A	0.7
7		1.000		8639384.05		A	7.4
8		1.000		8271170.32		A	8.3

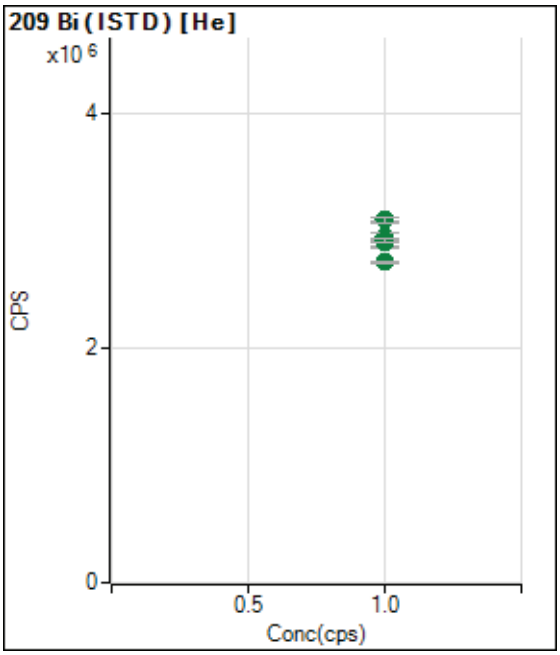


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3980551.61		A	0.4
2		1.000		3971211.16		A	1.0
3		1.000		3874259.84		A	1.0
4		1.000		3810003.21		A	0.8
5		1.000		3804769.63		A	4.4
6		1.000		3793520.43		A	1.5
7		1.000		3911079.87		A	2.7
8		1.000		3841472.68		A	0.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6393530.67		A	0.5
2		1.000		6365132.34		A	0.2
3		1.000		6048848.52		A	7.5
4		1.000		5838978.53		A	6.2
5		1.000		6161777.20		A	1.7
6		1.000		6148096.02		A	0.8
7		1.000		5921521.92		A	5.9
8		1.000		5332219.29		A	7.2



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1		1.000		3093564.29		A	1.0
2		1.000		3095061.59		A	1.4
3		1.000		2956754.16		A	1.7
4		1.000		2896746.13		A	1.3
5		1.000		2923960.93		A	4.4
6		1.000		2907002.56		A	0.7
7		1.000		2919972.60		A	1.3
8		1.000		2731748.68		A	0.4

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8071223 MS.b
Acq. Date-Time	2023-07-12 09:39:12
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9014	90140.09			2.552	5.000
24		368357	3683569.46			2.338	5.000
25		48006	480058.03			2.199	5.000
26		56968	569677.38			2.515	5.000
59		72216	722163.49			3.971	5.000
113		8162	81623.54			1.946	5.000
115		105309	1053092.38			2.916	5.000
206		27278	272775.17			2.065	5.000
207		24422	244220.42			2.541	5.000
208		59663	596630.07			2.043	5.000
220		0	1.80			31.672	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

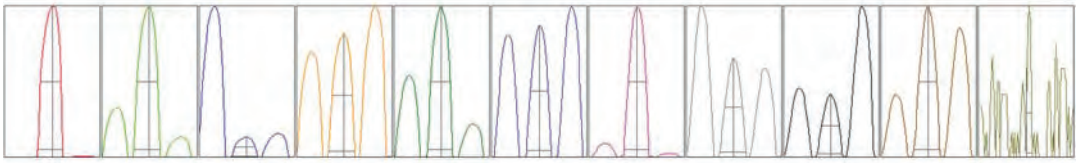
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9329	9125	8726	9007	8883
24	375525	371893	353426	369828	371113
25	49498	48063	46537	47781	48150
26	59211	56844	55207	56788	56789
59	76893	72374	69150	71455	71209
113	8336	8173	7924	8268	8110
115	109675	105847	101060	105202	104762
206	27668	27261	26333	27736	27390
207	24889	24259	23408	24687	24867
208	60223	60011	57550	59869	60663

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14938.29	9.05	8.90 - 9.10	
24	603107.28	24.00	23.90 - 24.10	
25	79799.58	25.00	24.90 - 25.10	
26	94110.22	26.00	25.90 - 26.10	
59	126702.00	59.00	58.90 - 59.10	
113	15450.12	113.05	112.90 - 113.10	
115	196437.37	115.05	114.90 - 115.10	
206	50983.21	206.00	205.90 - 206.10	
207	45744.55	207.00	206.90 - 207.10	
208	109964.61	208.00	207.90 - 208.10	
220	0.35	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.65	0.831	0.900	
25	0.64	0.792	0.900	
26	0.64	0.830	0.900	
59	0.60	0.780	0.900	
113	0.55	0.771	0.900	
115	0.55	0.775	0.900	
206	0.55	0.826	0.900	
207	0.55	0.794	0.900	
208	0.56	0.814	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16458	164584.20			3.791	
89		39407	394074.21			3.812	
205		21515	215146.59			3.059	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16651	16919	15781	17123	15819
89	39846	40389	38099	41105	37597
205	21824	21756	20499	22216	21278

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	3.8 V

US EPA Tune Check Report

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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c C&b nC/	12171	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
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Bsp Amb	1- y71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
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Br p/ PAmb	J71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
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. sPqAmb	4471	71F- 2	1F54	SF2N	SFSS	u 5c	l l e
. spenC	1271						ql w
. spenC	1272						ql w
. hPmpAOr	- y71						ql w
. hPmpAOr	- y72						ql w
. hpmb Amb	y272	7SF56	7SF52	SF50	SFSS	u 5c	l l e
. nesP&	yJ72	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
. nl l r p	6- 72	SF5-	7SF5-	SFSS	SFSS	u 5c	l l e
t / wl pnwAmb	1y671						ql w
t / wl pnwAmb	1y672						ql w
Epe Amb	16471						ql w
Epe Amb	16472						ql w
Gs OnPACAmb	16S71						ql w
Gs OnPACAmb	16S72						ql w
Hn P Amb	16y71				1SS		%
Hn P Amb	16y72				1SS		%
DOOAmb	11y71				1SS		%
DOOAmb	11y72				1SS		%
DpnC	y472	7SF2N	SF60	7SF- N	SFSS	u 5c	l l e
DpnC	y672	7SF5-	SF54	7SF51	SFSS	u 5c	l l e
DpnC	y072	71F1-	SF5y	1F5J	SFSS	u 5c	l l e
Kp/ l &aC	N- 71						ql w
Lr sO	2S671	SFSS	7SF51	SF51	SFSS	u 5c	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RC&w
LrsO	2S071	SFSS	SFS1	SFSS	SFSS	u5c	l l e
LrsO	2SN71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
LA&nAnb	671				1SS		%
9 sMOr wAnb	2472	7SF21	7SF2N	SF4J	SFSS	u5c	l l e
9 sOMsOr w	yy72	SFSS	SFS1	7SFS2	SFSS	u5c	l l e
9 nP eOr Onb	J471	SFS2	7SFS1	7SFS1	SFSS	u5c	l l e
9 nP eOr Onb	Jy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
9 nP eOr Onb	J671	7SFS1	7SFS1	SFS1	SFSS	u5c	l l e
9 nP eOr Onb	J071	7SFS1	SFS2	7SFS1	SFSS	u5c	l l e
9 nP eOr Onb	JN71	SFSS	SFSS	SFS1	SFSS	u5c	l l e
u r nO b Anb	1yS71						ql w
u r nO b Anb	1yS72						ql w
u A kr P	6S72	SFSS	7SFS1	SFS1	SFSS	u5c	l l e
8hnwl hnpmw	- 172	16F46	yF6y	746Fy2	7NF14		l l e
8n&swwAnb	- J72	71F41	SF14	1F20	SFSS	u5c	l l e
v hnOAnb	1S- 71				1SS		%
v hnOAnb	1S- 72				1SS		%
3qsCOAnb	4y71				1SS		%
3qsCOAnb	4y72				1SS		%
3r P CAnb	N271	7SF2N	SF14	SF14	SFSS	u5c	l l e
3r P CAnb	0072	7SF- N	SF0y	7SF- N	SFSS	u5c	l l e
3r P CAnb	0N72	SF2N	7SF2-	7SFS4	SFSS	u5c	l l e
3 A qnC	2N71	SFSS	SFS2	7SFS2	SFSS	u5c	l l e
3 A gr p	1S071	SFSS	SFSS	SFS1	SFSS	u5c	l l e
3 A gr p	1SJ71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
3nOAnb	2- 72	2F2S	71FSy	71F1y	SFSS	u5c	l l e
3 &nC&Anb	N671	SFSS	7SFS2	SFS2	SFSS	u5c	l l e
3 &nC&Anb	NN71	SFS1	7SFS1	SFSS	SFSS	u5c	l l e
3 mP mp	- 471	71J6FJS	711F00	7210F42	7142FS-		l l e
i r peAnb	1yJ71				1SS		%
i r peAnb	1yJ72				1SS		%
i hsP Anb	2S- 71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i hsP Anb	2Sy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i AC	11N71	7SFS2	SFS1	SFS1	SFSS	u5c	l l e
i A&sCAnb	4071	SFSS	SFSy	7SFS4	SFSS	u5c	l l e
RpsCAnb	2- N71	SFSS	SFSS	SFSS	SFSS	u5c	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D w&pmb Cr &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nCvr l 1	. nCvr l 2	. nCvr l -	cgMF. nCqF	. nCqv 3t	RC&w
VsCsOAmb	y172	SFSS	SFSS	SFSS	SFSS	u5c	l l e
Y&pe Amb	10271						ql w
Y&pe Amb	10272						ql w
Y&pe Amb	10671						ql w
Y&pe Amb	10672						ql w
Y&p Amb	NJ71				1SS		%
Y&p Amb	NJ72				1SS		%
ZACq	6672	7SFS1	SFSS	SFS1	SFSS	u5c	l l e
ZAqnCAmb	JS71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
ZAqnCAmb	J171	SFS2	SFS1	7SFS-	SFSS	u5c	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju rwo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju rwo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
i vNu TbTNu	2072	1MGSn	1MGD6	1MG12	1MG 1	2GS2	r r m
i oDDu Coy	12171	1GP6	1GD1	1GDn	1GD0	4G 0	r r m
i eeaboTA	0n72	1G1-	1G12	SGM1	1GSn	11GP6	r r m
BJeTNu	1- n71	MGS6	PGD4	PG44	PG6P	- GP1	r r m
BJeTNu	1- 071	PGD2	MGPn	MG1S	MG22	6G22	r r m
Bbeyw TNu	M71	SGM0	1GS1	SGMM	SGMM	1GPn	r r m
BTau NDn	2SM71				1SS		%
BTau NDn	2SM72				1SS		%
BeOu Tbb	P171						A r a
5 Jqu TNu	1SP71	SGPS	1G1n	SGMM	SGMP	10G60	r r m
5 Jqu TNu	1S671	72G1	2G M	71G4n	7SG M		r r m
5 Jqu TNu	11171	SGP4	SGM-	SGM6	SGM1	6GDP	r r m
5 JvATNu	4- 71	414G4n	441G1P	44SGDn	4- 2G1-	- GD4	r r m
5 JvATNu	4471	41MG4P	440GPM	442G M	4- 6GDM	- G4n	r r m
5 JemOo	1271						A r a
5 JemOo	1272						A r a
5 hwOeTbb	- n71						A r a
5 hwOeTbb	- n72						A r a
5 heOu TNu	n272	1GPP	1GMh	1GM-	1GM2	1G6M	r r m
5 OmJwD	nM72	SGM6	SGM6	SGMh	SGM6	SG4P	r r m
5 Orr be	6- 72	1GPM	1GP2	1GPM	1GP0	2G S	r r m
I yar eOaTNu	1n671						A r a
I yar eOaTNu	1n672						A r a
EemTNu	16471						A r a
EemTNu	16472						A r a
GJqOwbTNu	16S71						A r a
GJqOwbTNu	16S72						A r a
HOw TNu	16n71				1SS		%
HOw TNu	16n72				1SS		%
poqTNu	11n71				MM		%
poqTNu	11n72				1S1		%
peOo	n472	nSGDM	40G20	n1GD4P	4MGPP	4G6S	r r m
peOo	n672	4PG61	46GMh	4PG6M	4PGSM	2GSn	r r m
peOo	n072	44GS6	40GP4	4PG4-	46GDP	nGS0	r r m
Keyr DDo	P- 71						A r a
LbJq	2S671	SGPn	SGP6	SGP4	SGPn	1GD4	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
LbJq	2S071	SCPM	SCP2	SCPn	SCPn	4C44	r r m
LbJq	2SP71	SCP4	SCP6	SCP2	SCP4	2C06	r r m
LTDTNu	671				1S1		%
g JvobaTNu	2472	404C40	40nC11	4M2C10	4PSC0P	2CSM	r r m
g JovJobab	nn72	SCM6	SCM4	SCP4	SCM1	6C62	r r m
g OymqboNu	M471	nCSS	nCSM	nG 2	nC1-	- C1P	r r m
g OymqboNu	Mn71	4G P	4C41	4C2n	4G n	2CSS	r r m
g OymqboNu	M671	4C42	4C4M	4G 6	4C42	1C46	r r m
g OymqboNu	M071	4G 2	4C1M	4G 6	4C2M	2C12	r r m
g OymqboNu	MP71	4C0n	4C2-	4C4-	4C4S	- C06	r r m
8 bOqyu TNu	1nS71						A r a
8 bOqyu TNu	1nS72						A r a
8 TAkbw	6S72	1CS6	1C1S	1C16	1C11	4G -	r r m
I hOarhOaNa	- 172	4C16	710CS4	- 0G S	PC14	- - 6C00	r r m
I CDJaaTNu	- M72	40- CS1	4n6C66	4n6C11	4610C4	2CSP	r r m
UhOqTNu	1S- 71				MM		%
UhOqTNu	1S- 72				1S1		%
3 AJoqTNu	4n71				MM		%
3 AJoqTNu	4n72				MP		%
3 bwboTNu	P271	nC12	4C2-	4C04	4C06	MC06	r r m
3 bwboTNu	0072	2C00	6G P	4CSM	4C4P	- PCPS	r r m
3 bwboTNu	0P72	- C0h	6CS0	4C26	4C06	24CS4	r r m
3 TWACo	2P71	SC0M	SC02	SC60	SC66	1SC4M	r r m
3 TWbe	1S071	SCM2	SCM0	SCMP	SCM6	- CS6	r r m
3 TWbe	1SM71	SCM1	SCM0	SCM2	SCM4	2CM4	r r m
3 OqTNu	2- 72	4P0CM2	40- C4n	4M2C04	4P4C0S	2CS0	r r m
3 DaOoDTNu	P671	SCPP	SCPn	SCP0	SCP6	1C0-	r r m
3 DaOoDTNu	PP71	SCM4	SCPM	SCP0	SCMS	- CP4	r r m
3 NvNe	- 471	716SC0S	2MPC1-	2PPC60	142CS-	1P4C62	r r m
&bemTNu	1nM71				1SS		%
&bemTNu	1nM72				1SS		%
&hJwTNu	2S- 71	SCPM	SCP-	SCP1	SCP4	4C0P	r r m
&hJwTNu	2Sn71	SCP0	SCPP	SCPM	SCPP	1C2-	r r m
&Tb	11P71	4G 4	4G 2	4C44	4G 0	1C40	r r m
&TDJoTNu	4071	4C46	4C4-	4C06	4C4P	1C42	r r m
F eJoTNu	2- P71	SCP1	SCP0	SCP1	SCP-	4C22	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD9Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F o TDa
VJoJqTNu	n172	4CPn	4C62	4C6P	4CC2	2C04	r r m
YDDbemTNu	10271						Ar a
YDDbemTNu	10272						Ar a
YDDbemTNu	10671						Ar a
YDDbemTNu	10672						Ar a
YDD9TNu	PMV71				MP		%
YDD9TNu	PMV72				1S1		%
ZTbA	6672	2C1M	2CS0	2C4-	2C2-	PC2S	r r m
ZTbACoTNu	MS71	SCC0	SCPM	SCC4	SCPS	MCPM	r r m
ZTbACoTNu	M171	SCC0	SCPS	SCPM	SCP2	0CP1	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARVC5oncC	5oncU3D	Fnits
Aluminium	2072	1S90C92	1S9M40	1S48CSS	1S99CSS	SC98	ppb
Antimony	12171	9- C49	40C28	48CS-	4MC98	6C0M	ppb
Arsenic	0972	91C9S	9- CS2	9- C9S	92C60	10CM	ppb
Barium	1- 971	26SC 2	2- 8C30	241CS6	246C09	4C08	ppb
Barium	1- 071	269C48	241C24	242C36	24MC36	9C42	ppb
Beryllium	M71	9- C68	4M4M	4MC09	91CS4	4C9S	ppb
Bismuth	2SM71				M9		%
Bismuth	2SM72				M6		%
Bromine	8171						cps
5admium	1S871	6SC66	94CS2	92C98	99C09	0C0-	ppb
5admium	1S671	9- CS6	92CM	4MCM	91C44	- C9M	ppb
5admium	11171	90C28	91C 6	9- C90	94CS0	9C9-	ppb
5alcium	4- 71	98M2C 9	92- - C16	9208CM0	9468C16	6C0-	ppb
5alcium	4471	9062C9-	9114C6M	929MC02	9- 08CM8	6C 2	ppb
5arbon	1271						cps
5arbon	1272						cps
5hlorine	- 971						cps
5hlorine	- 972						cps
5hromium	9272	9SC S	9SCS9	48C29	4MC9-	2C26	ppb
5obalt	9M72	91CS0	4MC32	4MC90	9SC19	1C6S	ppb
5opper	6- 72	912C26	9SMC6-	4MC06M	9S6C9-	1C9-	ppb
Dysprosium	19671						cps
Dysprosium	19672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16S71						cps
Gadolinium	16S72						cps
Holmium	16971				M4		%
Holmium	16972				M0		%
Indium	11971				M4		%
Indium	11972				M6		%
Iron	9472	26S- C26	2641C6-	2994C2S	29MMC0S	1C6M	ppb
Iron	9672	2010C31	2049C0S	20SSC4M	2021C-	SC34	ppb
Iron	9072	2618C 4	29- 1C6M	29S6CM9	2992C-	2C2M	ppb
Krypton	8- 71						cps
Lead	2S671	290C6M	22SCS9	226C19	2- 4C6-	8C61	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	Fnits
Lead	2S071	299CS8	224C04	229C92	2- 9C11	0C6	ppb
Lead	2S871	26M8-	2- 2C29	2- 8CSM	246C02	8C2S	ppb
Lithium	671				M9		%
g avnesium	2472	94- M026	941- C4-	9262C22	9- 01C64	1C08	ppb
g anvanese	9972	9S- C09	4M6C49	488C2	4M6C24	1C90	ppb
g olybdenum	M471	99M62	480C89	4M9C1M	914C4M	0C64	ppb
g olybdenum	M971	996C69	4M0C19	912CS0	921C06	9C04	ppb
g olybdenum	M671	901C01	4M0C6M	911C42	926C04	0C40	ppb
g olybdenum	M071	96- C6S	484C8S	4M0C1M	919C46	8C1M	ppb
g olybdenum	M871	909C4-	4M- C14	9S6CSS	924C86	8C4-	ppb
Neodymium	19S71						cps
Neodymium	19S72						cps
Nickel	6S72	94C09	9- C9-	92C82	9- C0S	1C82	ppb
Phosphorus	- 172	1S10C21	1S- 2C2S	1S48C6M	1S- 2C0S	1C92	ppb
Potassium	- M72	2990C2M	2926C09	2916C9M	29- - C61	SC8-	ppb
Uhodium	1S- 71				M4		%
Uhodium	1S- 72				M0		%
3candium	4971				M2		%
3candium	4972				M4		%
3elenium	8271	6SC0S	9- C0M	91C02	99C40	8C42	ppb
3elenium	0072	69C6S	40C86	44CSS	92C4M	21C09	ppb
3elenium	0872	94C00	9M4S	6- C96	9M24	0C42	ppb
3ilicon	2871	61C09	9- C61	94C04	96C8-	0C68	ppb
3ilRer	1S071	99C01	9SC84	91C9M	92C02	4C00	ppb
3ilRer	1SM71	96C1M	9SCS-	9SC40	92C2-	6C98	ppb
3odium	2- 72	9669C00	998SC98	9482C60	9906C4	1C64	ppb
3trontium	8671	1419C16	12- 9C64	1291C0S	1- SSC8-	0C64	ppb
3trontium	8871	1- 80C08	1226CS6	121M8S	1200C88	0C49	ppb
3ulfur	- 471	- S29C4-	1- M9C2-	1406C10	1M69C1	46C04	ppb
Terbium	19M71				M9		%
Terbium	19M72				M0		%
Thallium	2S- 71	92C06	49C49	49C04	48CS9	8C9S	ppb
Thallium	2S971	9- C9	44C91	46C12	40C0M	M8C1	ppb
Tin	11871	94C12	48C4M	48C0M	9SC40	6C28	ppb
Titanium	4071	940C8S	4M2C8	4M9C8-	912CSS	6CS6	ppb
Franium	2- 871	91C8	44C44	49C18	40CSS	8C11	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	F nits
Vanadium	9172	91C2S	92C42	9SC00	91C46	1C66	ppb
Ytterbium	10271						cps
Ytterbium	10272						cps
Ytterbium	10671						cps
Ytterbium	10672						cps
Yttrium	8M71				M2		%
Yttrium	8M72				M6		%
Zinc	6672	921CSS	91M48	9S4C49	9140M8	1C08	ppb
Zirconium	MS71	9- C6M	40C M	48C12	4MC0-	6C04	ppb
Zirconium	M171	9- C0	46C44	48CS-	4MC48	8CS2	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
i lNu TbTNu	2072	26S45- 2	2g4- 524	2g9056S	2g095- M	1522	r r m
i oDu Coy	12171	116569	1- 05- M	129591	12056-	951g	r r m
i esboTA	0g72	1- S5- S	126592	126599	1295SS	15g6	r r m
BaeTNu	1- g71	g92511	69M5SS	64g5- M	6- 9594	9541	r r m
BaeTNu	1- 071	gM- 560	6M65S-	6465M1	64g5g4	05M-	r r m
BbeylITNu	M71	11M5- 9	14155S1	12052-	12M52S	9540	r r m
BTsu NDn	2SM71				M1		%
BTsu NDn	2SM72				M4-		%
BeOu Tbb	9171						Ar s
n aqu TNu	1S971	1- - 5SS	1495MS	14S52M	14S50-	g566	r r m
n aqu TNu	1S671	12456M	1gS564	1- 652M	1- 0521	M540	r r m
n aqu TNu	11171	12g5- 2	1495- 2	14S500	1- 9514	954M	r r m
n alATNu	4- 71	126SM5- S	1492252-	1- gg9502	1- 66- 542	951-	r r m
n alATNu	4471	122915MM	14- 9S52g	1- g60562	1- 4SM5Mg	059M	r r m
n aemOo	1271						Ar s
n aemOo	1272						Ar s
n hlOeTbb	- g71						Ar s
n hlOeTbb	- g72						Ar s
n heOu TNu	g272	12- 560	11M51M	11M500	12S590	25S1	r r m
n OmalD	gM72	1265M1	12- 516	12g5SS	12g52-	15g2	r r m
n Or r be	6- 72	1- 02526	1290512	1- 1M5S-	1- 26514	- 524	r r m
I ysr eOs TNu	1g671						Ar s
I ysr eOs TNu	1g672						Ar s
EemTNu	16471						Ar s
EemTNu	16472						Ar s
GaqOTbTNu	16S71						Ar s
GaqOTbTNu	16S72						Ar s
HOlu TNu	16g71				M1		%
HOlu TNu	16g72				M6		%
poqTNu	11g71				9M		%
poqTNu	11g72				M2		%
peOo	g472	6g4051S	6- 01520	64M0596	64025S9	154S	r r m
peOo	g672	60S2544	6g6S5- 9	66M05- -	66g- 5- 9	1521	r r m
peOo	g072	64SM524	626- 52S	624651-	6- S651M	1542	r r m
Keyr DDo	9- 71						Ar s
Lbaq	2S671	61- 5M0	0S1591	644596	6g- 5gg	6592	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	gM454M	0S052g	64g5S0	6495M4	950S	r r m
Lbaq	2S971	gM0540	0S256g	6- 051g	64g506	9522	r r m
LTbTNu	671				9M		%
v aRobsTNu	2472	1- 022509	1- ggg529	14S24506	1- 06056S	150-	r r m
v aoRaobsb	gg72	12- 65M4	11M4599	122454M	12195 00	1500	r r m
v Clymqboi Nu	M471	12g259-	14g9506	1- S459g	1- - 9591	95SS	r r m
v Clymqboi Nu	Mg71	12- g512	144M5M2	1- SM5gg	1- - 15g-	951M	r r m
v Clymqboi Nu	M671	122M544	14g450g	1- SM512	1- - 151S	95g9	r r m
v Clymqboi Nu	M071	12295g4	14g955S2	129g5S0	1- 2- 599	M5S-	r r m
v Clymqboi Nu	M971	12295gM	141M5g1	120M5S6	1- SM5S6	05g6	r r m
8 bOqyu TNu	1gS71						Ar s
8 bOqyu TNu	1gS72						Ar s
8 TAkbl	6S72	1- 156g	129542	1- - 5- 4	1- 1514	15M1	r r m
PhOsr hOaNs	- 172	244M594	2- g95- S	2g645M4	24g056M	4521	r r m
PODassTNu	- M72	6- 10596	6S6- 560	61005- 9	61965- 1	25S6	r r m
F hOqTNu	1S- 71				9M		%
F hOqTNu	1S- 72				M4		%
3 AaoqTNu	4g71				99		%
3 AaoqTNu	4g72				M5		%
3 blboTNu	9271	1- S521	14M5S0	1- g5g-	1- 9520	05S-	r r m
3 blboTNu	0072	12450 6	12S561	1465M9	1- S50M	1S594	r r m
3 blboTNu	0972	1- 45- 1	141562	1- g5- 1	1- 05S9	259M	r r m
3 TTAOo	2971	1205- 1	1gS5- -	1- 0500	1- 9540	95- 2	r r m
3 TUbe	1S071	12- 596	1- M5M9	1- g512	1- 25M9	6522	r r m
3 TUbe	1SM71	12150M	14- 5S1	1- 6524	1- - 569	9511	r r m
3 OqTNu	2- 72	1- 6g454-	1- 4965M5	1- g6g51-	1- g6959 2	S562	r r m
3 DaOoDTNu	9671	- SM150M	- 6g452g	- 241522	- - 2M5SM	950g	r r m
3 DaOoDTNu	9971	2Mg652-	- g11590	- 2- 65- M	- 2- 459-	95gM	r r m
3 NifNe	- 471	29gM51g	46- 6522	- - MM5S2	- 6- 1546	2g5SM	r r m
&bemTNu	1gM71				M1		%
&bemTNu	1gM72				Mg		%
&hallTNu	2S- 71	116542	1- - 5- 9	1215 9-	12- 599	65MM	r r m
&hallTNu	2Sg71	11M5MM	1425g4	12M5S-	1- S5g2	950S	r r m
&Tb	1197 1	1145M0	1- M5- M	1- 15M4	129500	M502	r r m
&DaoTNu	4071	11MS50M	1- 9g59-	12M05- 9	12M15- -	05g6	r r m
. eaoTNu	2- 971	1105MM	1- g50-	12g514	12652M	05S0	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDeNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	g172	1295M4	122520	12654S	12g590	2560	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDeTNu	9M71				99		%
YDDeTNu	9M72				M2		%
ZTbA	6672	120S529	12- 654-	12gM52S	12gg5- S	15- 0	r r m
ZTeACoTNu	MS71	1105Ig	1- 952S	12g5S9	12659 1	95- 9	r r m
ZTeACoTNu	M171	1165DS	1- g50M	1245 92	12g500	0561	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA 5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rrl 1	Cn5Rrl 2	Cn5Rrl 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
cPmb A5Amb	20 2	-111.-1	-SS6.4J	4662.-6	4J26.N-	4.00	l l e
c5&b n5y	121 1	240.J0	276.S1	27-.4J	27J.N2	2.J4	l l e
cpwr 5Aq	0- 2	26S.JS	244.24	216.04	24S.67	J.20	l l e
BspAmb	17- 1	124J.1J	11NJ.6-	1100.07	12S-.-2	7.1N	l l e
BspAmb	170 1	12N4.2J	1227.64	11JJ.-J	127-.N4	7.-7	l l e
Br pyPAmb	J 1	24S.-1	270.--	241.-N	27J.NN	S.N0	l l e
BAwb m&a	2SJ 1				J6		%
BAwb m&a	2SJ 2				J-		%
Bpmb A5r	N1 1						ql w
CsOb Amb	1SN 1	267.44	24J.20	2--.77	2-6.S1	2.0N	l l e
CsOb Amb	1S6 1	2--.02	24-.42	240.04	24J.67	2.16	l l e
CsOb Amb	111 1	261.66	2-S.7J	24J.N1	2-7.J-	2.67	l l e
CsPqAmb	47 1	2-664.00	2-111.S1	2466-.2J	2-140.S2	1.JJ	l l e
CsPqAmb	44 1	2-1NJ.JJ	2-S16.S1	242N4.7J	24N7S.17	1.J4	l l e
Cspen5	12 1						ql w
Cspen5	12 2						ql w
ChPmp5r	7- 1						ql w
ChPmp5r	7- 2						ql w
Chpmb Amb	-2 2	241.N6	27J.S-	22S.J-	277.J-	4.N-	l l e
CnesP&	-J 2	24J.6J	247.S7	224.N6	27J.1J	-.70	l l e
CnI l r p	67 2	2620.NS	2-27.6J	276S.2J	2-S7.J7	-.7J	l l e
t ywl pnwAmb	1-6 1						ql w
t ywl pnwAmb	1-6 2						ql w
EpeAmb	164 1						ql w
EpeAmb	164 2						ql w
GsOnP5Amb	16S 1						ql w
GsOnP5Amb	16S 2						ql w
HnPb Amb	16- 1				J4		%
HnPb Amb	16- 2				J6		%
D5OAmb	11- 1				J2		%
D5OAmb	11- 2				J2		%
Dpn5	-4 2	120N0.6-	12647.70	1102N.4-	127N6.4J	4.64	l l e
Dpn5	-6 2	171SS.6N	17SS2.N-	121N6.24	12067.26	7.J7	l l e
Dpn5	-0 2	12627.0J	12222.-1	117J-.J6	12SNS.0-	-.1N	l l e
Kpyl &a5	N7 1						ql w
LrsO	2S6 1	1210.22	1212.7S	12S2.64	121S.02	S.61	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8sp sb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
LrsO	2S0 1	1221.62	12SJ.-4	11J4.70	12SN.-1	1.17	l l e
LrsO	2SN 1	1210.S-	12SJ.2N	12S1.24	12SJ.1J	S.6-	l l e
LA&mAmb	6 1				JS		%
Msg5rwAmb	24 2	20126.-N	267NN.77	24047.S0	26SN-.JJ	4.6N	l l e
Ms5gs5rwr	- - 2	2-2J.-4	2-0S.- -	277N.N4	240J.64	4.JJ	l l e
MnPyeOr 5mb	J4 1	2-S6.70	27- - .6N	24S7.1J	2421.0-	7.1N	l l e
MnPyeOr 5mb	J- 1	2-S2.J7	2762.S0	27N6.77	2410.11	7.12	l l e
MnPyeOr 5mb	J6 1	24J0.S2	27N7.12	27J4.N-	242-.SS	2.-N	l l e
MnPyeOr 5mb	J0 1	2-14.60	27J-.-4	277S.02	2417.64	7.N0	l l e
MnPyeOr 5mb	JN 1	24N4.42	27-4.16	276S.11	27JJ.-0	7.S0	l l e
urnOybAmb	1-S 1						ql w
urnOybAmb	1-S 2						ql w
uAqkrP	6S 2	262.4S	2-S.66	274.JJ	24J.7-	-.-2	l l e
8hnwlhnpmw	71 2	4J7-.J2	40JN.SN	4446.7J	4026.NS	-.74	l l e
8n&swwAmb	7J 2	12141.-7	11J22.S0	1124-.-S	1106J.0S	7.J0	l l e
RhnOAmb	1S7 1				JS		%
RhnOAmb	1S7 2				J7		%
3qs5OAmb	4- 1				JS		%
3qs5OAmb	4- 2				JS		%
3rP5Amb	N2 1	26-.J0	2-7.J0	2-4.27	2-N.S6	2.66	l l e
3rP5Amb	00 2	261.14	24J.12	272.46	240.-N	-.N2	l l e
3rP5Amb	0N 2	26N.J4	2-6.06	22-.66	2-S.4-	N.J1	l l e
3AAqn5	2N 1	267.64	2-2.S2	2-2.N-	2-6.10	2.-7	l l e
3ARrp	1S0 1	2-N.-J	240.4N	2-7.-S	2-7.1J	2.2S	l l e
3ARrp	1SJ 1	266.16	2-4.4-	2-7.4J	2-N.S7	2.07	l l e
3nOAmb	27 2	26NJ0.NN	2-JS7.1S	244S1.27	2-074.S0	4.NN	l l e
3&m5&Amb	N6 1	62JJ.6N	6S00.NN	-JJJ.71	612-.67	2.-4	l l e
3&m5&Amb	NN 1	671-.S4	-NN2.02	6S1J.-7	6S02.47	7.64	l l e
3mPmp	74 1	- - 7N.N0	4JNS.70	4NJ7.N7	-170.6J	6.N1	l l e
irpeAmb	1-J 1				J4		%
irpeAmb	1-J 2				J7		%
ihsPAmb	2S7 1	27S.24	226.00	227.NN	226.J6	1.4S	l l e
ihsPAmb	2S- 1	242.N2	242.6N	244.JS	247.40	S.-1	l l e
iA5	11N 1	2-2.77	27J.26	277.S0	241.- -	4.S0	l l e
iA&s5Amb	40 1	240-.76	244N.16	27-4.77	242-.J-	2.62	l l e
Ups5Amb	27N 1	274.SS	270.J2	271.2-	274.7J	1.47	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	o l r ps&mp9	aswl sP
Lse:3sb l Pr:Dr:9	3S-	D5w&mb 5r &u sb r :9	8N
CPA5&3sb l Pr:Dr:9	3S-	t Ar8A5:Fsq&mp9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219 1J	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
Vs5sOAmb	- 1 2	2- 7.4-	246.02	22J.66	247.2N	- .S4	l l e
Y&&pe Amb	102 1						ql w
Y&&pe Amb	102 2						ql w
Y&&pe Amb	106 1						ql w
Y&&pe Amb	106 2						ql w
Y&&pAmb	NJ 1				J1		%
Y&&pAmb	NJ 2				J4		%
ZA5q	66 2	24J0.27	242S.J4	2202.06	27J6.JN	4.06	l l e
ZAqn5Amb	JS 1	2- 4.11	247.21	244.J6	240.47	2.70	l l e
ZAqn5Amb	J1 1	27J.1J	271.2-	271.0N	274.S0	1.JS	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b :	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b :	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
i wNu TbTNu	2072	1S2010MM	1S1-2G4S	1S1-0G1	1S1PSG42	SGPP	r r m
i oDu Coy	12171	4P4GPM	400G6	4P0G-	4P-GP	1GS0	r r m
i eeaboTA	0M72	MS1GPP	MS6G10	MSSG00	MS2G04	SGM0	r r m
BJeTNu	1-M71	242MG00	242MG41	242SGn	242-G02	SG1-	r r m
BJeTNu	1-071	24-PGSS	2-4-GMS	2-n1GP6	2-n1G12	1G0P	r r m
Bbeywi TNu	n71	401G2n	4nSG6M	46nGS2	406G0n	2G4n	r r m
BTau NDn	2Sn71				n6		%
BTau NDn	2Sn72				n4		%
BeOu Tbb	P171						Ara
5 Jqu TNu	1SP71	4PnG6	4PPGM	4nSG22	4PnG1	SG1n	r r m
5 Jqu TNu	1S671	4P2G26	406G01	4n4G2n	4P4G42	1GPM	r r m
5 Jqu TNu	11171	4n-G22	4P-GM2	4P4G64	4P0G1-	1GSn	r r m
5 JvATNu	4-71	4P1-PG02	4nP66GSM	MS11-G2	4n-02G06	2G1P	r r m
5 JvATNu	4471	4PSS6GM0	4nnP1G2S	MS40MG14	4n4P0G64	2G64	r r m
5 JemOo	1271						Ara
5 JemOo	1272						Ara
5 hwOeTbb	-M71						Ara
5 hwOeTbb	-M72						Ara
5 heOu TNu	M272	4PMGMM	4PMG01	4P-G02	4PMGS6	SG2S	r r m
5 OmJwD	Mh72	4nSG04	4n2GS0	4n6G46	4n-G16	SGMh	r r m
5 Orr be	6-72	M1-6G1S	M1S1GM6	M12-GSM	M12SG24	SG4	r r m
I yar eOaTNu	1M671						Ara
I yar eOaTNu	1M672						Ara
EemTNu	16471						Ara
EemTNu	16472						Ara
GJqOwbTNu	16S71						Ara
GJqOwbTNu	16S72						Ara
HOw TNu	16M71				n6		%
HOw TNu	16M72				nM		%
poqTNu	11M71				n2		%
poqTNu	11M72				nS		%
peOo	M472	26Pn-GP	201PnGP4	20M4PG12	2021SG4M	1G2S	r r m
peOo	M672	26-P2GS0	2Mh0PG6-	264-0GMP	26266GSn	SG0M	r r m
peOo	M072	2MSP1G1P	2MSSSG0n	2M-S0GPP	2M12nG0M	SG6-	r r m
Keyr DDo	P-71						Ara
LbJq	2S671	2-nSG2-	2-nMG20	2--MGP4	2-0-GGP	1Gn	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b:	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq:	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b:	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
LbJq	2S071	2-PMSSn	2410G41	2-4PC1P	2-P-0M6	1G4M	r r m
LbJq	2SP71	2-66G26	24S6GS0	2-6MSS0	2-0nC1-	SG0P	r r m
LTDTNu	671				P6		%
g JvobaTNu	2472	M-P0SC0S	M2S20G64	M26SSG0-	M2P--GS2	1C0n	r r m
g JovJobab	MW72	MSM-G04	M1n1CM2	M16SG0S	M1-MG4M	1G41	r r m
g OymqboNu	n471	4MP2G-4	4nSMC04	4PSnG2n	406MC02	-G4P	r r m
g OymqboNu	nM71	462nG0P	4Pn2GP0	4PMPG26	40n-C0S	2G0P	r r m
g OymqboNu	n671	466MG61	4n41G66	4P-2GSM	4P1-C11	2GPn	r r m
g OymqboNu	n071	46P2G-M	4n40G01	40-MG-P	40PPC0M	2G0-	r r m
g OymqboNu	nP71	466SG-S	MS1PGP1	406MG04	4P1MSS2	-GP-	r r m
8 bOqyu TNu	1MS71						Ara
8 bOqyu TNu	1MS72						Ara
8 TAkbw	6S72	M16G0n	M12C1M	M1-G62	M14G2M	SG4P	r r m
I hOarhOaNa	-172	1S2M-G62	n646C14	1S1M1G40	1SS10GS0	-G2M	r r m
I CDJaaTNu	-n72	24n1MG0n	2MP2SC0M6	2M-PSC0M2	2M-02G6	1C0P	r r m
UhOqTNu	1S-71				Pn		%
UhOqTNu	1S-72				nS		%
3AJoqTNu	4M71				nS		%
3AJoqTNu	4M72				P0		%
3bwoTNu	P271	400G6n	MS2G-2	4n-G20	4n1GSn	2C04	r r m
3bwoTNu	0072	M1-G40	M10G00	M440CM	M2MG-	-G2S	r r m
3bwoTNu	0P72	M24C1-	M11G-1	MS6G-0	M1-G04	1C0P	r r m
3TWAOo	2P71	4n6G4P	4n1G-S	4n-G26	4n-G6P	SC04	r r m
3TWbe	1S071	4n6G66	4PnG-4	MSSG40	4nMG4n	1G14	r r m
3TWbe	1Sn71	4n6G0P	4n6G42	4nSGS-	4n4G4P	SG0P	r r m
3OqTNu	2-72	M-62MC1S	M2M12C01	M-nnPG6-	M--0PGP1	1G4M	r r m
3DaOoDTNu	P671	1140SGS-	12240GP6	11n-nG4n	11PPMC0n	-G-S	r r m
3DaOoDTNu	PP71	11641C04	1241-G-	12Sn4G2n	12S4nC02	-G22	r r m
3NvNe	-471	n1P-GP6	n-nMSSS	n6n2G4-	n42-G00	2C01	r r m
&bemTNu	1Mh71				n6		%
&bemTNu	1Mh72				n6		%
&hJwTNu	2S-71	400C0M1	4n1GS6	401C0M0	4PSGSM	2GSP	r r m
&hJwTNu	2SM71	4P1GS0	4P4G46	401G-S	40PG04	1G4-	r r m
&Tb	11P71	4P4C01	4P6GSP	4P4G6M	4PMC1M	SG10	r r m
&TDJoTNu	4071	404PG61	4P-2GS-	4n2-G4P	4P-4C01	1GP1	r r m
FeJoTNu	2-P71	4MPG24	40nG4M	40-G10	40SG2n	2G-2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S6	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:24:10	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
VJoJqTNu	M172	MS6G 0	MS6G2P	MS6G M	MS6G -	SGS1	r r m
YDDemTNu	10271						Ar a
YDDemTNu	10272						Ar a
YDDemTNu	10671						Ar a
YDDemTNu	10672						Ar a
YDDeTNu	Pn71				n1		%
YDDeTNu	Pn72				n1		%
ZTbA	6672	4n4MD10	4n24G4P	4nS0G-	4n2MDP6	SG P	r r m
ZTbACoTNu	nS71	460GD2	4PSG41	4nMGM	4P1G 6	2G4	r r m
ZTbACoTNu	n171	44PG2M	40SGM0	464G12	46SGP	2G4n	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
i lNu TbTNu	2072	1g90g590	2SS0M52-	1g9MS5-1	1gg-M514	S561	r r m
i oDu Coy	12171	g-4590	1Sg0590	ggg52S	1S1S56M	9512	r r m
i esboTA	0M72	1SS650M	g9051-	1SS0522	1SSS5-6	151M	r r m
BaeTNu	1-M71	46g2524	M4--56M	MS1659g	MS405Mg	05-6	r r m
BaeTNu	1-071	40--5M0	M40-50-	4gM95g6	MSMM642	05MS	r r m
BbeylITNu	g71	gg1514	1S6g5M9	g0g566	1S1-546	459-	r r m
BTsu NDn	2Sg71				g-		%
BTsu NDn	2Sg72				g4		%
BeOu Tbb	9171						Ar s
naqu TNu	1S971	g-05-2	1S6g52g	gg951M	1SS15Mg	65Mg	r r m
naqu TNu	1S671	g-0510	1S0g59g	1SS1502	1SS6526	051S	r r m
naqu TNu	11171	g4S52g	1S09594	gg1569	1SS-56S	65g9	r r m
nalATNu	4-71	1S-S4S501	11g-415M6	1S001-511	11SS-150g	056-	r r m
nalATNu	4471	g6S2M5gg	1Sg4M15-9	1SSMg15S4	1S2S2259S	656g	r r m
naemOo	1271						Ar s
naemOo	1272						Ar s
nhlOeTbb	-M71						Ar s
nhlOeTbb	-M72						Ar s
nheOu TNu	M272	1S26569	1S10522	gg2510	1S1252	1506	r r m
nOmalD	Mg72	1S19510	1S16519	g9-5g1	1SS65Sg	15g1	r r m
nOr r be	6-72	g90M5S1	1SS9-5-4	g929592	gg2g5S6	15-0	r r m
I ysr eOs TNu	1M671						Ar s
I ysr eOs TNu	1M672						Ar s
EemTNu	16471						Ar s
EemTNu	16472						Ar s
GaqOTbTNu	16S71						Ar s
GaqOTbTNu	16S72						Ar s
HOlu TNu	16M71				g6		%
HOlu TNu	16M72				g9		%
poqTNu	11M71				9g		%
poqTNu	11M72				g1		%
peOo	M472	M290954M	M29Mg544	M1g0S542	M2M6g544	S5gg	r r m
peOo	M672	M26S954M	M1-645gS	MSMMS5-0	M1MS05g1	25S1	r r m
peOo	M072	M2-1-51M	M1g-65gS	M14905M4	M1g125M4	S59S	r r m
Keyr DDo	9-71						Ar s
Lbaq	2S671	496256M	M-9956S	4gMg51M	MS0S51-	M5M2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	49- - 50M	M-44512	MS21516	MS665-M	M61S	r r m
Lbaq	2S971	494S526	M-94566	4g0g50S	MS69521	M5M9	r r m
LTDbTNu	671				92		%
v aRobsTNu	2472	1S-g94501	1SM16252S	1S1g-S544	1S-6g254M	15M9	r r m
v aoRaobsb	MM72	ggM-514	g99452M	gg965g9	gg4154M	S5M-	r r m
v Clymqboi Nu	g471	gM26540	11SM25-4	g0gM592	1S124599	95S4	r r m
v Clymqboi Nu	gM71	g410560	1Sg6-521	ggM6590	1S1125M9	0506	r r m
v Clymqboi Nu	g671	g-g05- -	1Sg-9511	gg6650S	1S1SS501	0501	r r m
v Clymqboi Nu	g071	g4g954-	1Sgg451g	g9Mg5-1	1S1105-1	0501	r r m
v Clymqboi Nu	g971	g42S561	1S9-M52g	1SS0155 2	1S1S95g9	05SS	r r m
8 bOqyu TNu	1MS71						Ar s
8 bOqyu TNu	1MS72						Ar s
8 TAkbl	6S72	gg2524	gg95g4	g9M5S0	gg25S9	S50S	r r m
PhOsr hOaNs	- 172	1g6S155 4	2SM2-5g1	2SS6M5-S	2SS6-542	25-S	r r m
PODassTNu	- g72	MS4M-519	4gg-g50g	MS99152-	MS4245 0-	S5g-	r r m
F hOqTNu	1S-71				90		%
F hOqTNu	1S-72				g1		%
3 AaoqTNu	4M71				90		%
3 AaoqTNu	4M72				gS		%
3 blboTNu	9271	g-9526	1S9M566	g0056S	1SSS5M1	056-	r r m
3 blboTNu	0072	g0-54S	g9059g	1SSS5SS	g9051S	15-M	r r m
3 blboTNu	0972	gg15-M	g94506	gg650-	ggS5gM	S561	r r m
3 TTAOo	2971	g42561	1S66549	g9g5g9	ggg56g	652M	r r m
3 TUbe	1S071	g46590	1S015-S	g9259S	1SSS5-2	654S	r r m
3 TUbe	1Sg71	g2059g	1S965g0	g9-591	ggg5M6	95S0	r r m
3 OqTNu	2-72	1S20S1564	1SM1- - 526	1S260S5MM	1S-MS1591	15-0	r r m
3 DaOoDTNu	9671	2-9SS54g	20-665g9	2401g5gS	2M2gM50g	05-2	r r m
3 DaOoDTNu	9971	2-9S650S	2016M51S	24046564	2M2-g549	6596	r r m
3 NifNe	- 471	19-145g4	22S1M5g1	1g96151S	2SS6-5g9	g526	r r m
&bemTNu	1Mg71				g4		%
&bemTNu	1Mg72				g0		%
&hallTNu	2S-71	g665g1	1SgM540	g9M5M4	1S1M5g0	6594	r r m
&hallTNu	2SM71	g01529	1S96599	g065M6	1S115M0	654M	r r m
&To	11971	g4952g	1S94569	gg4516	1SSg5SM	6599	r r m
&TaoTNu	4071	g4M05gg	1S6065SM	1S1M2514	1SSgM5-g	65SM	r r m
. eaoTNu	2-971	gM05- -	111450S	g94522	1S1950M	9526	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	M172	gg45gg	1SS05g-	gg25S9	gg95-	S59M	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDaTNu	9g71				gS		%
YDDaTNu	9g72				g-		%
ZTbA	6672	ggMM50M	1S21M55S6	1SS1- 544	1SS6154-2	15- M	r r m
ZTbAOoTNu	gS71	g4M5gg	1111500	g0154g	1SSg50M	9594	r r m
ZTbAOoTNu	g171	gM-520	111S569	1SS65- 1	1S2- 542	059-	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0e:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNEbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTs
i lNu TbTNu	20 2	g- M-150M	g- M715-2	1S2- 04566	gggg65S-	254g	r r m
i oDu Coy	121 1	S5M6	S562	S5-2	S560	2S5g6	r r m
i esboTA	0M2	S570	S54S	S5M0	S54M	2757S	r r m
BaeTNu	17M1	750g	75MS	75Mg	7567	455-	r r m
BaeTNu	170 1	756-	455 0	756S	750-	6501	r r m
Bbey/lTNu	g 1	S527	S51-	S527	S521	1M516	r r m
BTsu NDn	2Sg 1				- 7		%
BTsu NDn	2Sg 2				- -		%
BeOu Tbb	- 1 1						Ar s
n aqu TNu	1S- 1	S5g2	S500	S5-0	S5-M	g54S	r r m
n aqu TNu	1S6 1	75MM	156S	15-2	2572		r r m
n aqu TNu	111 1	S5M2	S5M4	S546	S5M1	- 502	r r m
n alATNu	47 1	46240254 4	MMSgg25-g	4- SM-S561	4g- S1M572	g57g	r r m
n alATNu	44 1	40SS7- 5-1	M4g1M15-2	40g6gM64M	4gg62- 56g	- 564	r r m
n aemOo	12 1						Ar s
n aemOo	12 2						Ar s
n hlOeTbb	7M1						Ar s
n hlOeTbb	7M2						Ar s
n heOu TNu	M2 2	M51-	M544	M52-	M57S	25MM	r r m
n OmalD	Mg 2	2574	2570	257M	2576	S561	r r m
n Or r be	67 2	757S	752g	7574	7571	S5-1	r r m
l ysr eOs TNu	1M6 1						Ar s
l ysr eOs TNu	1M6 2						Ar s
EemTNu	164 1						Ar s
EemTNu	164 2						Ar s
GaqOTbTNu	16S 1						Ar s
GaqOTbTNu	16S 2						Ar s
HOlu TNu	16M1				g1		%
HOlu TNu	16M2				g0		%
poqTNu	11M1				- 4		%
poqTNu	11M2				g1		%
peOo	M4 2	24gS675M0	2M1M-45gM	2401445S6	24g2645 1g	S5-g	r r m
peOo	M6 2	2467- 156g	2M70425-M	24- M145M1	24gM4657M	15M2	r r m
peOo	M0 2	24- 66452g	24046S562	2M204M66g	24g6275M7	1511	r r m
Keyr DDo	- 7 1						Ar s
Lbaq	2S6 1	2566	250g	25-M	2500	757M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTb
Lbaq	2S0 1	755 4	25M6	2566	250M	g51S	r r m
Lbaq	2S- 1	25g6	2501	2507	25- S	45g1	r r m
LTbTNu	6 1				06		%
v aRobsTNu	24 2	4gg- M452M	4g01425 02	4gg66- 5Mg	4g- - - - 5M2	S57S	r r m
v aoRaobsb	MM2	0527	052-	0547	0571	1541	r r m
v Clymqboi Nu	g4 1	45MS	7501	450S	4571	12514	r r m
v Clymqboi Nu	gM1	4517	756S	7506	75- 7	0511	r r m
v Clymqboi Nu	g6 1	457M	750S	452g	4511	- 5- 1	r r m
v Clymqboi Nu	g0 1	75gg	7561	4522	75g4	05- 0	r r m
v Clymqboi Nu	g- 1	4576	7512	45S-	75- M	165g2	r r m
8 bOqyu TNu	1MS 1						Ar s
8 bOqyu TNu	1MS 2						Ar s
8 TAkbl	6S 2	M5S0	45- 4	4506	45- g	7520	r r m
PhOsr hOeNs	71 2	745g2	0501	12566	1752g		r r m
PODassTNu	7g 2	24- 1g- 54g	24g7S7544	2M224M5S6	24gg1M560	S5- 4	r r m
F hOqTNu	1S7 1				0g		%
F hOqTNu	1S7 2				- M		%
3 AaoqTNu	4M1				- 7		%
3 AaoqTNu	4M2				gS		%
3 blboTNu	- 2 1	M50g	M574	45MM	M527	115g4	r r m
3 blboTNu	00 2	7524	M5Mg	4541	4541	26560	r r m
3 blboTNu	0- 2	M52-	4566	- 564	651g	745MM	r r m
3 TTAOo	2- 1	1S5S4	1M51-	175- 6	175S7	2S54-	r r m
3 TUbe	1S0 1	S516	S522	S516	S51-	1- 5MM	r r m
3 TUbe	1Sg 1	S51-	S51g	S516	S51-	1S576	r r m
3 OqTNu	27 2	4gM2715 1M	MS7- 17540	4g0677517	4g- - g25M-	S5- g	r r m
3 DaOoDTNu	- 6 1	- 51S	655-	65- 0	0522	1S566	r r m
3 DaOoDTNu	- - 1	0512	M5S0	6562	6520	105SS	r r m
3 NfNe	74 1	7152S	17- 2522	- 7502	447527	1- 75g2	r r m
&bemTNu	1Mg 1				gS		%
&bemTNu	1Mg 2				g6		%
&hallTNu	2S7 1	S571	S572	S52g	S571	45g7	r r m
&hallTNu	2SM1	S574	S57S	S577	S572	M5M0	r r m
&Tb	11- 1	S56S	S5Mg	S5M-	S5Mg	15M2	r r m
&DaoTNu	40 1	25g7	15- S	7517	2562	2052g	r r m
. eaoTNu	27- 1	S527	S52S	S527	S522	056g	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaDDe:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posDaNu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTs
VaoaqTNu	M1 2	S57M	S57S	S570	S574	g54M	r r m
YDDbemTNu	102 1						Ar s
YDDbemTNu	102 2						Ar s
YDDbemTNu	106 1						Ar s
YDDbemTNu	106 2						Ar s
YDDbTNu	- g 1				- 6		%
YDDbTNu	- g 2				g4		%
ZTbA	66 2	1S5g1	1S5Mg	1S5- 0	1S50g	15Mg	r r m
ZTbACoTNu	gS 1	S5M4	S5M4	S562	S5M6	- 5- 1	r r m
ZTbACoTNu	g1 1	S5M	S561	S5M	S5Mg	75M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t &pJ&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- &pCTDwe t &pJ&JaJ	3- 7 S0	&cbT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc&pJmwe pJa	S1 3- 7.o

Nwlwe pTpl	Mwl l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
q&be cCcbe	2092	4y: .uy	4u2.16	4u1.Sy	4u .02	1.46	t t r
qCTce 5Ch	12191	1y0.21	1u4.6u	1u6. u	1uy.4y	: . 6	t t r
qll pCcd	0 92	2S: .1	2Sy.S0	2S6.SS	2S6.Su	1.44	t t r
Bwlcbe	1: 91	yu.: 1	y1.: 1	y4.yu	y4.u0	: .6y	t t r
Bwlcbe	1: 091	yu.y1	yS. 1	y2.10	y: .u6	4.04	t t r
Bplh&cbe	y91	yu.16	y4. u	1SS.2u	y0.60	2.y	t t r
Bdc e bT%	2Sy91				1S1		E
Bdc e bT%	2Sy92				1S2		E
Bl5e cCp	u191						dt l
- woe cbe	1Su91	uy.21	u1.u4	u2.6S	u4.	4.0y	t t r
- woe cbe	1S691	u .0	0u.6u	04.6S	0y.6u	0.Su	t t r
- woe cbe	11191	1S4.uy	yy.y:	1SS.40	1S1.06	2.60	t t r
- w&lcbe	4: 91	1u: S.12	1001.0u	10 u.yy	10u6.y6	2.12	t t r
- w&lcbe	4491	1u: : .11	10 S.: 4	1uS4.: 2	10y .y2	2.: 4	t t r
- wlr 5C	1291						dt l
- wlr 5C	1292						dt l
- %&5lcCp	: 91						dt l
- %&5lcCp	: 92						dt l
- %l5e cbe	292	y .S4	y .41	y4. 1	y4.yy	S.40	t t r
- 5r w&T	y92	yu.0	y0.4S	y0. 1	y0.uu	S.00	t t r
- 5t t pl	6: 92	y6.1:	y6.Sy	y: .11	y .11	1.u2	t t r
&hl t l5l cbe	1 691						dt l
&hl t l5l cbe	1 692						dt l
Glr cbe	16491						dt l
Glr cbe	16492						dt l
Hwo5&Ccbe	16S91						dt l
Hwo5&Ccbe	16S92						dt l
K5&e cbe	16 91				yy		E
K5&e cbe	16 92				1S1		E
3Ccbe	11 91				1SS		E
3Ccbe	11 92				1S1		E
35C	492	1yu .0y	1y6 .4S	1y04.: 6	1y0 .1u	S. 2	t t r
35C	692	2S: 2.1u	2S1: .6S	2S2 .1:	2S2: .64	S.46	t t r
35C	092	1y2S.u0	1uy .y2	1y1y.y4	1y12.24	S.04	t t r
klht T5C	u: 91						dt l
Lpwo	2S691	1y4.06	1y2.4u	1y: . u	1y: .6S	S. y	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- 8pCTDwe t 8pJ8&JaJ	3- 7 S0	&cbT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFcbJmwe pJa	S1 3- 7.o

NwIwe pTpl	MwI l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
Lpwo	2S091	1y2.: 2	1u .01	1uu.Su	1uu.01	1.00	t t r
Lpwo	2Su91	2S .61	2SS.S:	1yy.0u	2S1.u1	1.6:	t t r
LdP%cbe	691				y4		E
MwgCpl cbe	2492	11: S. u	1120.46	112u.u4	112u.y6	S.14	t t r
MwCgwCpl p	92	y: .2S	y4.10	y: .46	y: .61	S. :	t t r
M58hr opCbe	y491	S.10	S.14	S.1u	S.16	12.16	t t r
M58hr opCbe	y 91	S.11	S.1:	S.Sy	S.11	2S.S4	t t r
M58hr opCbe	y691	S.1:	S.1u	S.1u	S.16	1u.26	t t r
M58hr opCbe	y091	S.Sy	S.11	S.Sy	S.1S	14.24	t t r
M58hr opCbe	yu91	S.12	S.12	S.12	S.12	2.16	t t r
mp5ohe cbe	1 S91						dt l
mp5ohe cbe	1 S92						dt l
mcdf p8	6S92	1Sy.:	1S0.20	1S6.y2	1S0.u	1.22	t t r
N%5l t %5lbl	: 192	9S.: 2	91u.0	92: .4	914.10		t t r
N5TWl cbe	: y92	1u6y.0y	1u 4.: u	1u: S.20	1u 1.4u	1.Su	t t r
R%5ocbe	1S: 91				yy		E
R%5ocbe	1S: 92				1S2		E
DdwCocbe	4 91				yu		E
DdwCocbe	4 92				yy		E
Dp8pCcbe	u291	2Sy.11	21S.2y	2S . :	2Su.: 1	1.1y	t t r
Dp8pCcbe	0092	2S: .SS	214.yy	2S4.01	2S0. 0	: .1:	t t r
Dp8pCcbe	0u92	21: .64	21y.26	210.: u	216.06	1.: 2	t t r
Dc8d5C	2u91	S.4	S.1y	S.2:	S.2y	4u.yS	t t r
Dc8vpl	1S091	4y.u6	46.6y	40.: 0	40.y0	: .4u	t t r
Dc8vpl	1Sy91	4y.4S	46.0u	40.:	40.u4	2.uy	t t r
D5ocbe	2: 92	1y6y. u	1y S.Su	1y42.60	1y 4.11	S.01	t t r
DT5CTbe	u691	S.44	S.21	S.24	S.: S	42.10	t t r
DT5CTbe	uu91	S.: 1	S.2	S.24	S.20	14. 1	t t r
Db8%l	: 491	106.4y	94: S.SS	91 2.01	91: .41		t t r
Aplr cbe	1 y91				1S1		E
Aplr cbe	1 y92				1S2		E
A%w8bbe	2S: 91	2S6.6u	2S: .10	1y0.y:	2S2. y	2.10	t t r
A%w8bbe	2S 91	21: .62	21S.1	211.yS	211.uy	S.u2	t t r
AcC	11u91	S.12	S.S:	S.S1	S.S	1Su.y	t t r
AcTWCcbe	4091	S.Su	S.S	S.S4	S.S	: y.02	t t r
UlwCcbe	2: u91	S.S1	S.S1	S.S1	S.S1	: .SS	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r pIJa	LB1264S0	n t pIwT5IJa	swI Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3C1 TIbe CpTJmwe pJa	Nu
- 8pCTJDwe t 8pJ8&JaJ	3- 7 S0	&c8bT5CJFwdT5IJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

NwIwe pTpI	MwI I	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
7wCwodbe	192	y6.4y	y0.1:	y0.6	y0.Sy	S.6S	t t r
YTTpIr dbe	10291						dt I
YTTpIr dbe	10292						dt I
YTTpIr dbe	10691						dt I
YTTpIr dbe	10692						dt I
YTTrdbe	uy91				yu		E
YTTrdbe	uy92				1S2		E
ZdCd	6692	1yS. 2	1uy.y	1u6.6S	1uy.S2	1.12	t t r
Zdd5Cdbe	yS91	S.S2	S.S2	S.S1	S.S2	41.1:	t t r
Zdd5Cdbe	y191	S.Su	S.Su	S.S0	S.S0	.S2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t 8p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- 8pCT9Dwe t 8p9&9J9	3- BS07	&8bT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l Jl0Jla	&wTwUd8p9mwe p9J	S16- - B. Fo

Nwlwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
q8be cCbe	20:2	SF22	SF56	:SF16	SF54	40aFua	t t r
qCTe 5Ch	121:1	SF12	SF11	SF16	SF1	21F06	t t r
qll pCcd	07:2	SF5u	SF56	SF5	SF57	40Fau	t t r
Bwlcbe	1 7:1	SF51	SF5	SF5	SF52	66F67	t t r
Bwlcbe	1 0:1	SF52	SF51	SF5	SF52	77F7S	t t r
Bplh8bbe	a:1	SF5	SF5	SF52	SF5	1aFu	t t r
Bdc e bT%	2Sa:1				1S2		E
Bdc e bT%	2Sa:2				1SS		E
Bl5e cCp	u1:1						dt l
- woe cbe	1Su:1	:SF51	SF1u	SF11	SF5a	1S4F0u	t t r
- woe cbe	1S6:1	:SF66	:7F42	: F5S	: F5		t t r
- woe cbe	111:1	SF52	:SF57	:SF51	:SF51		t t r
- w8lcbe	4 :1	:2Fa2	:SF S	:2Fa7	:2F56		t t r
- w8lcbe	44:1	1 F1a	17F0a	14Fa7	14F64	aF5a	t t r
- wlr 5C	12:1						dt l
- wlr 5C	12:2						dt l
- %5lcCp	7:1						dt l
- %5lcCp	7:2						dt l
- %5e cbe	72:2	:SF51	:SF52	:SF51	:SF52		t t r
- 5r w8T	7a:2	SF52	SF5S	SF52	SF51	6uF1S	t t r
- 5t t pl	6 :2	SF5u	SF56	SF50	SF50	14F47	t t r
&hl t l5l cbe	176:1						dt l
&hl t l5l cbe	176:2						dt l
. lr cbe	164:1						dt l
. lr cbe	164:2						dt l
Gwo58Ccbe	16S:1						dt l
Gwo58Ccbe	16S:2						dt l
H58e cbe	167:1				1SS		E
H58e cbe	167:2				1SS		E
3Ccbe	117:1				aa		E
3Ccbe	117:2				1SS		E
35C	74:2	1F61	1F2	1F00	1F7	1uF2	t t r
35C	76:2	SF74	SF u	SF 0	SF4	21F07	t t r
35C	70:2	:1F56	:SF60	:SF71	:SF04		t t r
KIht T5C	u :1						dt l
Lpwo	2S6:1	SF50	SF57	SF50	SF56	10F0	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l Jl0Jla	&wTwUdp9mwe p9J	S16- - B. Fo

NwIwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
Lpwo	2S0:1	SF5S7	SF5S4	SF5S7	SF5S7	17F6u	t t r
Lpwo	2Su:1	SF5S0	SF5S0	SF5S7	SF5S6	10Fu1	t t r
LdT%dbe	6:1				a		E
y wMCpl dbe	24:2	SF17	SF 1	SF u	SF2u	4SFu6	t t r
y wCMwCpl p	77:2	SF5SS	SF5S1	SF5S2	SF5S1	12 F21	t t r
y 58hr opCbe	a4:1	SF5S7	SF5S	SF5S1	SF5S	61Fu	t t r
y 58hr opCbe	a7:1	SF5S2	SF5SS	SF5SS	SF5S1	16aF 6	t t r
y 58hr opCbe	a6:1	SF5S2	SF5S2	SF5S2	SF5S2	uF2S	t t r
y 58hr opCbe	a0:1	SF5S2	SF5SS	SF5S2	SF5S1	117Fu1	t t r
y 58hr opCbe	au:1	SF5S1	SF5S1	SF5S1	SF5S1	44F60	t t r
mp5ohe dbe	17S:1						dt l
mp5ohe dbe	17S:2						dt l
mdkp8	6S:2	SF5S2	SF5S2	:SF5S1	SF5S1	17SFa7	t t r
N%5l t %5lbl	1:2	:21Fau	26F0	:2SF60	:7F 1		t t r
N5TWl dbe	a:2	uF66	4Fu	6FaS	6FuS	2uF2	t t r
v %5odbe	1S :1				1S1		E
v %5odbe	1S :2				aa		E
DdwCodbe	47:1				aa		E
DdwCodbe	47:2				a0		E
Dp&pCdbe	u2:1	:SF60	SF5S1	:SF 6	:SF 4		t t r
Dp&pCdbe	00:2	SF04	:SF u	:SF u	:SF5S1		t t r
Dp&pCdbe	0u:2	SF16	SFu2	SF62	SF7	64FS2	t t r
Dc&d5C	2u:1	SF5S1	SF5S4	:SF5S0	:SF5S1		t t r
Dc&gpl	1S0:1	SF5S2	SF5S4	SF5S4	SF5S	27F67	t t r
Dc&gpl	1Sa:1	SF5S4	SF5S2	SF5S4	SF5S	7Fu4	t t r
D5odbe	2 :2	24F S	21F4	22F60	22FuS	6F 2	t t r
DTT5CTbe	u6:1	SF5S7	SF5Su	:SF5S1	SF5S4	1S0F10	t t r
DTT5CTbe	uu:1	SF5S7	SF5S1	SF5S1	SF5S2	124Faa	t t r
Db&bl	4:1	:4uuF0	:1a1F62	:26 Fa7	: 14F00		t t r
Aplr dbe	17a:1				1SS		E
Aplr dbe	17a:2				1SS		E
A%w&bbe	2S :1	SF5Sa	SF5S0	SF5Su	SF5Su	16F7	t t r
A%w&bbe	2S7:1	SF5Su	SF5Su	SF5Su	SF5Su	FaS	t t r
AdC	11u:1	:SF5S	:SF5S	SF5SS	:SF5S2		t t r
AdTWdbe	40:1	:SF1S	:SF5S	SF5SS	:SF5S4		t t r
RlwCdbe	2 u:1	SF5SS	SF5SS	SF5SS	SF5SS	26aF 2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129I J10J1a	&wTwUc&p9mwe p9J	S16- - B. Fo

NwIwe pTpI	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
VwCwodbe	71:2	SF5	:SF51	SF5S	SF51	S0Fu4	t t r
YTTpIr dbe	102:1						dt l
YTTpIr dbe	102:2						dt l
YTTpIr dbe	106:1						dt l
YTTpIr dbe	106:2						dt l
YTTrdbe	ua:1				aa		E
YTTrdbe	ua:2				1SS		E
ZdCd	66:2	SF57	SF50	SF27	SF12	a1F64	t t r
Zdcd5Cdbe	aS:1	SF5S	SF51	SF5S	SF51	01Fu1	t t r
Zdcd5Cdbe	a1:1	:SF52	:SF52	:SF51	:SF52		t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otIDTnDas	wIP8IN
LIpa7IrtNa&aa	3-7 S0:	5PTder 5lTabIrIas	um
-N5TA7IrtNa&aa	3-7 S0:	&dNTn5aIqTnDas	1
&ITaiaAcrIaqdedDOas	2S29JS0J12a19s2Ss24	&IT.dNabIrIas	S103-7 CC

ulDrITD	gIPP	-n5UIt1	-n5UIt2	-n5UIt9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M24SCm4	Mm16MCm0	Mm21:C49	M02SmC01	1C0:	ttp
5Tcn5y	121J1	1C4:	1C90	1C24	1C9:	0C02	ttp
DPI5cq	0:J2	SCm	SC69	SCm	SC6S	:CS6	ttp
BIDcer	19:J1	1C4m	1C9:	1C4S	1C41	4C6	ttp
BIDcer	190J1	1C42	1C9S	1C94	1C96	4C41	ttp
BIDyNder	MJ1	SC9S	SC92	SC2m	SC9S	6C40	ttp
BcPreTn	2SMJ1				M9		%
BcPreTn	2SMJ2				M4		%
BDnrc5I	m1J1						qtP
-IOrcer	1SmJ1	10C10	14C06	14Cm4	1:CM	mC06	ttp
-IOrcer	1S6J1	J1C4S	J1Cmm	J:CS9	J2C00		ttp
-IOrcer	111J1	SC6	SC6M	SC4M	SCm	1mC2M	ttp
-INqcer	49J1	M2m4MC6S	M9m4MC69	M92:C46	M4SSmC29	1C92	ttp
-INqcer	44J1	M2M06CM1	M1M9CS9	M2mMmC20	M26SMC4S	SC62	ttp
-IDpn5	12J1						qtP
-IDpn5	12J2						qtP
-hNDc5I	9:J1						qtP
-hNDc5I	9:J2						qtP
-hDnrcer	:2J2	1MC4S	1MC19	1MCDS	1MC41	1C4m	ttp
-npINT	:MJ2	1C2S	1C22	1C1m	1C2S	1C66	ttp
-nttID	69J2	0C24	0C4S	0C12	0C2:	1CM6	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GIOnNscer	16SJ1						qtP
GIOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				Mm		%
5Ocer	11:J1				M2		%
5Ocer	11:J2				M9		%
3Dn5	:4J2	1SSM04C10	MMSm4C94	MMS21CS0	MM6M9C1M	1C11	ttp
3Dn5	:6J2	MmM2mC64	1SS2MSCCm	Mm6m2CS9	MM9SSC4M	SCm0	ttp
3Dn5	:0J2	1S1264C42	1S9SS9C9m	1S10:SCMS	1S2SS6C29	SCmm	ttp
KDytTn5	m9J1						qtP
LIIO	2S6J1	4C9:	4C61	4Cm0	4C61	:C64	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 S0:	35PTDer 5lTabl r las	um
-Nl5Ta7lrtNla8&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcr la qdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablr las	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LllO	2S0J1	4C14	4C24	4C2S	4C1M	1C22	ttp
LllO	2SmJ1	4C29	4C9M	4CCS	4C90	9CS4	ttp
LdThcer	6J1				mm		%
glv5lPcer	24J2	M4020CM9	M62S2C62	M S::C9M	M 92mC6:	SC01	ttp
gl5vl5lPl	::J2	0C9m	0C61	0C62	0CC9	1C01	ttp
gnNypCl5er	M4J1	1466C9S	140mCM2	14MSC10	140mC6M	SC09	ttp
gnNypCl5er	M J1	10M4CCM	101MCCM	10MCC9	100SCCS	2CCS	ttp
gnNypCl5er	M6J1	1061CCM	10S2CMm	10:4CM9	109MCm4	1Cm4	ttp
gnNypCl5er	M0J1	10mmC62	10:1CC1	100mCm	1002CC0	1CSm	ttp
gnNypCl5er	MmJ1	1mSMCM1	1069C6M	10MMC9m	10MSCCM	1C9:	ttp
blnOyrcer	1:SJ1						qtP
blnOyrcer	1:SJ2						qtP
bcqklN	6SJ2	:CM6	:Cm1	6CSm	:CM	2C2:	ttp
uhnPthnDeP	91J2	M0M6SCCm	MMSS2C69	M00:4CCS	Mm29MCCS	SC6m	ttp
unTPPcer	9MJ2	M 0M9C96	M4m26C9:	M611mCm	M:0MCC2	SCCS	ttp
UhnOcer	1S9J1				M1		%
UhnOcer	1S9J2				M9		%
7ql5Ocer	4:J1				M2		%
7ql5Ocer	4:J2				M1		%
7lNl5cer	m2J1	JSCS6	JSC24	JSCSM	JSC19		ttp
7lNl5cer	00J2	JSC9m	JSC9m	JSC9m	JSC9m		ttp
7lNl5cer	0mJ2	JSC9m	JSC61	SC10	JSC2m		ttp
7dqn5	2mJ1	2C92	2C10	2C2S	2C29	9C0:	ttp
7dNlD	1S0J1	SCS2	SCS2	SCS9	SCS2	10C00	ttp
7dNlD	1SMJ1	SCS2	SCS4	SCS2	SCS2	41CS0	ttp
7nOcer	29J2	1S260MC6:	1S2141C4M	1S1006C6:	1S21MMC26	SC44	ttp
7TDn5Tcer	m6J1	910CM1	9SCmS	910CM9	91C:	2CS:	ttp
7TDn5Tcer	mmJ1	92C60	91C4m	91C2	91CmM	2C11	ttp
7eNeD	94J1	04::C4M	04S61C4:	04MS:C42	04:S6C4:	SC0	ttp
AlDpcer	1:MJ1				M6		%
AlDpcer	1:MJ2				Mm		%
AhlNter	2S9J1	SC24	SC24	SC1M	SC22	12CS1	ttp
AhlNter	2S:J1	SC1m	SC2:	SC2S	SC21	10C90	ttp
Ac5	11mJ1	SC94	SC29	SC41	SC99	2mC4M	ttp
AcT5cer	40J1	1MS6C2:	1M62C66	1M62C24	1M49C01	1C60	ttp
FD5cer	29mJ1	SCS9	SCS2	SCS9	SCS9	19C91	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDTnDas	wlP8lN
LIpa7lrtNa&aa	3-7 S0:	35PTDer 5lTabIrlas	um
-Nv5Ta7lrtNa&aa	3-7 S0:	&dvTn5alqTnDas	1
&lTiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	SC24	SC1:	SC1m	SC1M	2:CS0	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M9		%
YTDcer	mMJ2				M4		%
Zc5q	66J2	1SC4m	1SCM2	1SCS1	1SC40	4C96	ttp
ZcDqn5cer	M6J1	SCS2	SCS1	SCS9	SCS2	09C91	ttp
ZcDqn5cer	M1J1	SCS4	SCS2	SCS9	SCS9	26CGM	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otIDTnDas	wIP8IN
LIpa7IrtNa&aa	3-7 BS0:	5PTDer 5lTabIrIas	um
-N5TA7IrtNa&aa	3-7 BS0:	&dNTn5aIqTnDas	1
&ITaiaAcrIaqdedDOas	2S29JS0J12a19s29s19	&IT.dNabIrIas	S1m3-7BCC

ulDrITD	gIPP	-n5UIt1	-n5UIt2	-n5UIt9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M644M90	M10mCS0	M4120C4M	M2:1C6:	1C22	ttp
5Tcn5y	121J1	2SC9:	1M96	2SC24	1MCMm	2C01	ttp
DPI5cq	0:J2	21CS0	2SCCM	2SCCM	2SC0m	SC00	ttp
BIDcer	19:J1	1MCM	1MCC6	2SC1:	1MCM	SCMm	ttp
BIDcer	190J1	21CS9	2SC1M	1MC09	2SC9:	9CS9	ttp
BIDyNer	MJ1	1MC6	1MC12	1MCCM	1MC9	2CS1	ttp
BcPreTn	2SMJ1				M4		%
BcPreTn	2SMJ2				M6		%
BDnr 5I	m1J1						qtP
-IOrcer	1SmJ1	9SC6m	2MC69	9SC91	9SC21	1C06	ttp
-IOrcer	1S6J1	12C12	1SC04	12CS1	11C66	6CSm	ttp
-IOrcer	111J1	2SC1S	1mCM4	1MCM	1MC4	2CM0	ttp
-INqcer	49J1	M0024C0S	M9S42C49	M9S2SC09	M4:M6CS2	2C06	ttp
-INqcer	44J1	M40:4C6m	M6mMCC10	M99:0C9m	M9SS9CSm	2C1S	ttp
-IDpn5	12J1						qtP
-IDpn5	12J2						qtP
-hNDc5I	9:J1						qtP
-hNDc5I	9:J2						qtP
-hDnrcer	:2J2	9mC1m	90C04	90CC0	90CM9	SC0	ttp
-npINT	:M2	2SC24	2SC9:	1MC6m	2SCSM	1CCM	ttp
-nttID	69J2	26C1S	2:C0S	2:C9m	2:CC6	1C4S	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GIOnNscer	16SJ1						qtP
GIOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				1SS		%
5Ocer	11:J1				M2		%
5Ocer	11:J2				M		%
3Dn5	:4J2	1SS261C06	MM69SC91	1SS41MCC2	1SS1S9CM6	SC42	ttp
3Dn5	:6J2	1SS2m2C46	1SS40MC19	1SS62:CC:	1SS462C44	SC10	ttp
3Dn5	:0J2	1SS4m6C29	1SS261CC0	MM MC9M	1SS11:C19	SC46	ttp
KDytTn5	m9J1						qtP
LIIO	2S6J1	26CCM	24CCM	2:C26	2:C6:	9C0M	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aa	3-7 BS0:	35PTDer 5lTabrlas	um
-Nt5Ta7lrtNla&aa	3-7 BS0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s29s19	&lT.dNablrlas	S1m3-7BCC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LlIO	2S0J1	2:0Mm	24G46	24Gm1	2:GSm	9Clm	ttp
LlIO	2SmJ1	2:0M4	24G46	2:GSM	2:C16	20M	ttp
LdTher	6J1				m0		%
glv5lPer	24J2	M4049G91	M966C6	M4m6Gm4	M4MmmGMS	SG9:	ttp
gl5vl5lPl	::J2	26C1	26C19	2:G20	2:0M0	2G4:	ttp
gnNypCl5er	M4J1	14M0G9	1:1MG24	1:S1G92	1:S6C16	SG06	ttp
gnNypCl5er	MJ1	10m6G24	1000Clm	1062G2M	100:G24	SG6m	ttp
gnNypCl5er	M6J1	100SG66	1096Gm0	10mmGM9	106:G4M	1CS	ttp
gnNypCl5er	M0J1	10m4G6S	1001GMm	1mS0C1:	10m0GM1	1GSS	ttp
gnNypCl5er	MmJ1	1m11GS6	1040G69	1m12Gm4	10MSC1	2GS0	ttp
blnOyrer	1:SJ1						qtP
blnOyrer	1:SJ2						qtP
bqkIN	6SJ2	240GMM	2:G2m	2:GS:	2:C1	SG6S	ttp
uhnPthnDeP	91J2	Mm24GmS	M0020G12	M14mG49	M0199G4:	1Gm2	ttp
unTPPer	9MJ2	Mm0M4Gm9	M9SSSGm1	M6S:1G0:	MM4MG19	9GS2	ttp
UhnOer	1S9J1				MS		%
UhnOer	1S9J2				M9		%
7ql5Oer	4:J1				M4		%
7ql5Oer	4:J2				M9		%
7lN5er	m2J1	1MG96	10G62	10G0:	1mG24	:G9S	ttp
7lN5er	00J2	16G2M	21G9M	2SC1	1MG4S	14GS6	ttp
7lN5er	0mJ2	21G4M	1MGS:	2SGS6	2SG2S	6GS0	ttp
7dqn5	2mJ1	2CS	2GSm	2G29	2G20	MG9m	ttp
7dRD	1S0J1	1MGS1	10G66	10Gmm	1mGlm	90Mm	ttp
7dRD	1SMJ1	1mGm4	10G09	1mG99	1mG9S	9GS4	ttp
7nOer	29J2	1SSmS:Gm9	1SS9SmG09	1SS6:9C16	1SS:mMG24	SG2:	ttp
7TDn5Ter	m6J1	99G22	910MS	99G2S	92G00	2G91	ttp
7TDn5Ter	mmJ1	92G24	91G6M	92G06	92G29	1G60	ttp
7eNeD	94J1	0MS44G2m	029mmGS	02:1SG41	04640GmS	:GlS	ttp
AlDper	1:MJ1				M0		%
AlDper	1:MJ2				Mm		%
AhlNter	2S9J1	21G49	2SG1:	2SGm	2SG02	9G1:	ttp
AhlNter	2S:J1	21G90	1MGM4	2SC4	2SG62	9G4M	ttp
Ac5	11mJ1	SG91	SG99	SG92	SG92	2G2:	ttp
AdT5er	40J1	2S16G2m	1MSG21	2SS9G16	1MmMGm	1G06	ttp
FD5er	29mJ1	SGS9	SGS2	SGS9	SGS9	mGS6	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 BS0:	35PTDer 5lTabl r las	um
-Nl5TA7lrtNla8&aaa	3-7 BS0:	&dNTn5alqTnDas	1
&lTiaAcr la qdedDOas	2S29JS0J12a19s29s19	&lT.dNlabl r las	S1m3-7BCC

ulDr lTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvCa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	1MCS	1MC26	1MCm	1MCm	1C4:	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M4		%
YTDcer	mMJ2				M0		%
Zc5q	66J2	2MC0	2MC24	2mC04	2MC1m	1C49	ttp
ZcDqn5cer	M6J1	SCS2	SCS9	SCS9	SCS9	26Cm9	ttp
ZcDqn5cer	M1J1	SCS9	SCSS	SCSS	SCS1	146Cm	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb cOcmb	20 2	J21J. F46	JSJ11F74	JS612F2S	J1S. 4F77	1FN1	DDe
q CTb 5Ch	121 1	J7NF41	4. 0FJ4	4. 6F. .	J1SF. N	4F6J	DDe
q pwr Ccd	0J 2	J27F0J	J20F0J	J1JF17	J22F21	1F24	DDe
Bspcmb	17J 1	20JSFNJ	2JN0FSJ	2J71F4N	2627F17	4F7J	DDe
Bspcmb	170 1	26. SF10	2J17FJ4	2JSJF41	2J6. F01	4FS6	DDe
Br phPmb	. 1	JSJF4J	4NJF66	4NNF77	4. 7F1J	2F1N	DDe
Bcwb mT%	2S. 1				. S		E
Bcwb mT%	2S. 2				. 1		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	JJ1F1J	J17F. 7	J16FN0	J20F72	7F. 2	DDe
3 sob cmb	1S6 1	JJSF6S	JS6F4J	JS2F77	J1. F0.	JF1J	DDe
3 sob cmb	111 1	JJ7FS2	J1JF1J	J1NFNS	J2NF. .	7F. J	DDe
3 sPdcmb	47 1	26. 4S7F27	2761. 2F41	24466. F67	2JSSNNF42	6F. S	DDe
3 sPdcmb	44 1	2612J0F27	2741. SFNS	27. 0SSF7N	24JS4. F40	JFN4	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %F5pcCr	7J 1						dDw
3 %F5pcCr	7J 2						dDw
3 %p5b cmb	J2 2	4. 0F20	4NNF62	4NJF4S	4. SF47	1F2J	DDe
3 5esFT	J. 2	4NNF44	4. 2F0.	40. F16	4N6FNS	1F47	DDe
3 5DDr p	67 2	J7S4FNJ	J24SF2N	JS6NF77	J2S4F4.	2F7J	DDe
&hwDp5wcmb	1J6 1						dDw
&hwDp5wcmb	1J6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PdCcmb	16S 1						dDw
Hso5PdCcmb	16S 2						dDw
K5Pb cmb	16J 1				. 6		E
K5Pb cmb	16J 2				. N		E
tCocmb	11J 1				. S		E
tCocmb	11J 2				. 1		E
tp5C	J4 2	12667SF7S	120. N4F1S	120S6JFN2	120226F04	SFJ4	DDe
tp5C	J6 2	12N764FNS	120161FJ2	126N16F04	120440F6N	SF64	DDe
tp5C	J0 2	126447F01	12. 1. 1F06	12J0SJF16	120117FJ4	1F4J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	20SNFN7	2JSJF46	2JSSF76	2J01FJJ	4F62	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8spsb r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	20JSF26	2J70F77	24N1F0S	2JN. F06	JF40	DDe
Lr so	2SN 1	2011F44	2J42F66	2J20FN.	2J. 4FSS	7F. 7	DDe
LdP%omb	6 1				N4		E
y sMOr womb	24 2	2J0N14F26	2JS021FN2	2J4267FJ4	2J4266FJ4	1F7.	DDe
y sOMsOr wr	JJ 2	J2S0F1S	JS26F0S	JSNNF. S	J1S0FJ0	1F0.	DDe
y 5Pheor Omb	. 4 1	J47. F06	JS. 6F0N	4. S6FJ6	J140F0S	JF2J	DDe
y 5Pheor Omb	. J 1	J72NF41	J177FS6	4. SNFJ6	J127F74	4F1S	DDe
y 5Pheor Omb	. 6 1	J2N6F64	J111F. 0	4. . 0F7.	J172FSS	2FN4	DDe
y 5Pheor Omb	. 0 1	J4S2F11	JS. . F7J	JSSJFJ7	J16. FSS	4FS1	DDe
y 5Pheor Omb	. N 1	J721FJS	J171F67	4. NNF1.	J140F11	7F2J	DDe
ur 5ohb omb	1JS 1						dDw
ur 5ohb omb	1JS 2						dDw
udfr P	6S 2	JS0FJ2	JSSF6S	4. 7F02	JSSF61	1F7N	DDe
8 %5wD%5pmw	71 2	1SS. 1F2.	1S2. . FSS	1S2N2FS6	1S224F12	1F17	DDe
8 5Tswwomb	7. 2	1261. . FJS	126276F61	126JS1F1.	126712F44	SF17	DDe
v %5oomb	1S7 1				NN		E
v %5oomb	1S7 2				N.		E
I dsOomb	4J 1				. 2		E
I dsOomb	4J 2				. 1		E
I r POomb	N2 1	J24FSS	JS6FS7	4NJF. 0	JSJF77	7F00	DDe
I r POomb	00 2	4JJF74	J2SFJ.	JS1FJ7	4. 2F4N	6FN1	DDe
I r POomb	0N 2	J2JFJ2	J11FN4	J74F0.	J24FSJ	2F2S	DDe
I dd5C	2N 1	J6JFS.	4. 0FN1	J10FSN	J26F66	6FJN	DDe
I dgr p	1S0 1	J72F7.	JS2F77	JS1F6.	J12F14	7F47	DDe
I dgr p	1S. 1	J7NFJJ	4. 1FJ.	JS7FN6	J11F77	4F06	DDe
I 5oomb	27 2	2JN4S6F1.	2J2. 61FJ6	2J262JF6J	2J4664F40	1F20	DDe
I Tp5CTomb	N6 1	17JS. F6J	126S4F40	12147F7S	120J2F40	JF4J	DDe
I Tp5CTomb	NN 1	17217F4N	12404F17	12S7SF26	12J02F62	4F0J	DDe
I mPVmp	74 1	1117SF14	NN44F42	. J44FJS	. N7. F6.	11F. S	DDe
Ar peomb	1J. 1				. 6		E
Ar peomb	1J. 2				. 6		E
A%sPomb	2S7 1	JJSF14	J12F27	JS7F60	J22FS1	4F04	DDe
A%sPomb	2SJ 1	J47F44	J12F2S	J14F1N	J27F20	7F74	DDe
AdC	11N 1	J71FJ0	4. JF07	JS1F10	JS. F4.	7F0.	DDe
AdSOomb	40 1	J4S4FN.	4N42F70	JS01F44	J1S6F24	JFJ4	DDe
RpsOomb	27N 1	J2. F7.	JS6F74	J1SF4.	J1JF41	2F7N	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	J1 2	J20FN7	J16FS.	J2SF41	J21F44	1F14	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N. 1				. 7		E
YTTpomb	N. 2				. 4		E
ZdCd	66 2	JS61F01	4. . JF. 2	4. 40FSJ	JSS1FJ6	1F1J	DDe
Zqpd5Comb	. S 1	J71F4N	JSSF. J	4N7F0S	JSJF7N	4F0.	DDe
Zqpd5Comb	. 1 1	J10F02	4. JF02	4N2F02	4. NF02	7FJJ	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	2072	9.y0	2.y4	1.49	4.y-	96.99	I I b
c 5&mn5h	12171	S.19	S.21	S.22	S.21	y.y1	I I b
c rse5Aq	0y72	S.S8	S.S2	S.S4	S.Sy	y0.y2	I I b
BarAum	1- y71	S.2S	S.18	S.2S	S.2S	y.2y	I I b
BarAum	1- 071	S.1y	S.16	S.21	S.10	18.66	I I b
BerhllAum	971	S.S0	S.S0	S.S6	S.S0	y.- 8	I I b
BAsmu&%	2S971				1S1		E
BAsmu&%	2S972				98		E
BrnmA5e	8171						ql s
3 aOmAum	1S871	S.20	S.S6	S.S8	S.14	81.- 8	I I b
3 aOmAum	1S671	74.00	72.66	72.y1	7- .- 1		I I b
3 aOmAum	11171	S.Sy	S.S2	S.S8	S.Sy	61.69	I I b
3 alqAum	4- 71	22.24	2S.41	19.46	2S.01	6.82	I I b
3 alqAum	4471	86.98	6y.48	y6.6S	69.68	22.41	I I b
3 arbn5	1271						ql s
3 arbn5	1272						ql s
3 %nrA5e	- y71						ql s
3 %nrA5e	- y72						ql s
3 %nmAum	y272	S.S4	S.S-	7S.S-	S.S1	29- .y2	I I b
3 nbal&	y972	S.Sy	S.SS	S.S1	S.S2	142.61	I I b
3 nI I er	6- 72	S.92	S.yS	S.4S	S.6S	4y.60	I I b
t hsI rnsAum	1y671						ql s
t hsI rnsAum	1y672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
GaOnlA5Aum	16S71						ql s
GaOnlA5Aum	16S72						ql s
HnlmAum	16y71				1SS		E
HnlmAum	16y72				1S1		E
D5OAum	11y71				1SS		E
D5OAum	11y72				1SS		E
Dn5	y472	1- .SS	y.20	6.18	8.1y	y1.84	I I b
Dn5	y672	12.88	- .- S	- .SS	6.4S	80.86	I I b
Dn5	y072	11.- -	y.2-	6.- S	0.62	42.09	I I b
Krhl &n5	8- 71						ql s
LeaO	2S671	S.4y	S.- 4	S.26	S.- y	20.9y	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
LeaO	2S071	S.- -	S.- 4	S.29	S.- 2	8.26	I I b
LeaO	2S871	S.- 6	S.- 1	S.28	S.- 2	12.26	I I b
LA%Aum	671				9S		E
Mag5esAum	2472	- 2.06	4.- 9	y.20	14.14	114.S9	I I b
Ma5ga5ese	yy72	S.- y	S.11	S.1y	S.2S	6- .96	I I b
MnlhbOe5um	9471	S.88	S.66	S.y6	S.0S	2- .62	I I b
MnlhbOe5um	9y71	S.86	S.04	S.68	S.06	12.S0	I I b
MnlhbOe5um	9671	S.9-	S.6y	S.60	S.0y	2S.46	I I b
MnlhbOe5um	9071	S.89	S.6-	S.69	S.04	18.01	I I b
MnlhbOe5um	9871	S.8S	S.60	S.82	S.06	1S.92	I I b
NenOhmAum	1yS71						ql s
NenOhmAum	1yS72						ql s
NAqkel	6S72	S.S4	S.S4	S.S4	S.S4	6.S8	I I b
P%nsI %nrus	- 172	7- 8.18	714.68	7- S.y9	720.81		I I b
Pn&assAum	- 972	66.84	yS.42	y1.68	y6.- 2	16.2-	I I b
R%nOAum	1S- 71				99		E
R%nOAum	1S- 72				1S1		E
pqa5OAum	4y71				90		E
pqa5OAum	4y72				94		E
pele5Aum	8271	S.yS	7S.- 9	S.- -	S.1y	- 18.01	I I b
pele5Aum	0072	7S.- 8	7S.- 8	7S.- 8	7S.- 8		I I b
pele5Aum	0872	7S.- 2	7S.yy	S.S9	7S.26		I I b
pAAqn5	2871	S.66	S.10	7S.S2	S.20	1- S.90	I I b
pAver	1S071	S.S2	S.S2	S.S-	S.S2	2S.yS	I I b
pAver	1S971	S.S-	S.S2	S.S2	S.S2	4.26	I I b
pnOAum	2- 72	142.84	1S0.98	1Sy.SS	118.61	10.04	I I b
p&n5&Aum	8671	1.26	S.0-	S.06	S.92	- 2.6y	I I b
p&n5&Aum	8871	S.86	S.02	S.08	S.09	8.0-	I I b
pulfur	- 471	9- y.8-	7- S0.y0	7814.99	762.2y		I I b
i erbAum	1y971				1SS		E
i erbAum	1y972				98		E
i %allAum	2S- 71	S.26	S.21	S.2S	S.22	1- .9-	I I b
i %allAum	2Sy71	S.2-	S.22	S.2S	S.22	0.y1	I I b
i A5	11871	S.S4	S.SS	S.Sy	S.S-	0y.20	I I b
i A&a5Aum	4071	S.4-	S.49	S.- y	S.42	16.94	I I b
Ura5Aum	2- 871	S.S4	S.S-	S.S-	S.S-	9.86	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D) :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D) :	3 3 BS2-	t Au&An5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	y172	S.S-	S.S2	S.SS	S.S2	1S4.20	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				98		E
Y&&Aum	8972				99		E
ZA5q	6672	S.yy	S.19	S.S8	S.20	9S.- 2	l l b
ZAqn5Aum	9S71	S.S4	S.S-	S.Sy	S.S4	- 6.y1	l l b
ZAqn5Aum	9171	S.S-	S.S1	S.Sy	S.S-	0- .y8	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Aluminium	2572	6.48	3.61	9.- 1	3.99	24.4-	ppb
Antimony	12171	P.11	P.12	P.P8	P.11	15.31	ppb
Arsenic	5372	P.P9	P.P6	P.P3	P.P4	99.45	ppb
Barium	19371	P.14	P.13	P.16	P.13	4.2-	ppb
Barium	19571	P.18	P.21	P.14	P.18	21.8-	ppb
Beryllium	- 71	P.P8	P.P6	P.P4	P.P6	9P.24	ppb
Bismuth	2P- 71				- -		%
Bismuth	2P- 72				- 5		%
Bromine	8171						cps
Cadmium	1P871	7P.P1	7P.P1	7P.P3	7P.P9		ppb
Cadmium	1P671	79.81	72.5-	74.13	79.38		ppb
Cadmium	11171	P.P1	P.P5	P.P1	P.P9	11P.29	ppb
Calcium	4971	23.84	24.44	16.1-	22.16	29.34	ppb
Calcium	4471	62.65	63.3-	34.25	6P.84	- .63	ppb
Carbon	1271						cps
Carbon	1272						cps
Chlorine	9371						cps
Chlorine	9372						cps
Chromium	3272	P.P-	P.P4	P.P4	P.P6	44.19	ppb
Cobalt	3- 72	P.P2	P.P2	P.P2	P.P2	- .28	ppb
Copper	6972	P.4-	P.4P	P.49	P.44	1P.24	ppb
Dysprosium	13671						cps
Dysprosium	13672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16P71						cps
Gadolinium	16P72						cps
Holmium	16371				1PP		%
Holmium	16372				- 5		%
Indium	11371				- 8		%
Indium	11372				- 6		%
Iron	3472	- .- 1	1P.- 9	4.86	8.35	95.- 6	ppb
Iron	3672	- .P4	- .3-	8.58	- .14	4.39	ppb
Iron	3572	5.8-	- .P6	3.- 3	5.64	2P.36	ppb
Krypton	8971						cps
Lead	2P671	P.9P	P.26	P.2P	P.23	18.89	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Lead	2P571	P.94	P.28	P.22	P.28	22.6-	ppb
Lead	2P871	P.9P	P.26	P.2P	P.23	1- .26	ppb
Lithium	671				- P		%
Magnesium	2472	19.4P	12.24	5.88	11.15	26.P3	ppb
Manganese	3372	P.21	P.18	P.19	P.15	29.- 6	ppb
Molybdenum	- 471	P.62	P.4-	P.95	P.4-	23.P1	ppb
Molybdenum	- 371	P.69	P.32	P.96	P.3P	26.5P	ppb
Molybdenum	- 671	P.31	P.31	P.94	P.43	21.24	ppb
Molybdenum	- 571	P.61	P.4-	P.45	P.32	14.92	ppb
Molybdenum	- 871	P.4-	P.44	P.42	P.43	8.82	ppb
Neodymium	13P71						cps
Neodymium	13P72						cps
Nickel	6P72	P.P6	P.P9	P.P3	P.P3	28.P5	ppb
0hosphorus	9172	79P.92	24.4-	26.54	6.- 5	469.6P	ppb
0otassium	9- 72	3- .81	44.48	96.48	46.- 2	23.25	ppb
Rhodium	1P971				- 8		%
Rhodium	1P972				- 5		%
Scandium	4371				- 8		%
Scandium	4372				- 4		%
Selenium	8271	P.P9	7P.P8	7P.3P	7P.18		ppb
Selenium	5572	2.P5	7P.98	P.56	P.82	14- .65	ppb
Selenium	5872	P.34	7P.32	P.P-	P.P9	134P.9-	ppb
Silicon	2871	P.12	P.14	P.P1	P.P-	58.- 1	ppb
Silver	1P571	P.P1	P.P2	P.P1	P.P1	48.- 6	ppb
Silver	1P- 71	P.PP	P.P1	P.PP	P.P1	56.56	ppb
Sodium	2972	- 5.25	88.- 3	82.33	8- .3-	8.29	ppb
Strontium	8671	P.83	1.P9	P.32	P.8P	92.81	ppb
Strontium	8871	P.88	P.56	P.62	P.53	15.51	ppb
Sulfur	9471	7255.P8	18.35	79P5.29	7188.38		ppb
Terbium	13- 71				- -		%
Terbium	13- 72				- 8		%
Thallium	2P971	P.15	P.18	P.16	P.15	3.66	ppb
Thallium	2P371	P.1-	P.16	P.19	P.16	16.4P	ppb
Tin	11871	P.P1	P.P1	P.PP	P.P1	115.49	ppb
Titanium	4571	P.63	P.49	P.42	P.3P	23.62	ppb
Uranium	29871	P.P3	P.P9	P.P2	P.P9	42.11	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Vanadium	3172	P.P9	P.P2	P.P4	P.P9	96.13	ppb
Ytterbium	15271						cps
Ytterbium	15272						cps
Ytterbium	15671						cps
Ytterbium	15672						cps
Yttrium	8- 71				1PP		%
Yttrium	8- 72				- 6		%
Zinc	6672	P.98	P.16	P.15	P.24	32.55	ppb
Zirconium	- P71	P.P4	P.P9	P.P1	P.P9	63.62	ppb
Zirconium	- 171	7P.P1	7P.P2	P.P9	P.PP	2P81.49	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpla	LB1264S0	olrpw8apla	swlPw8
LweJ wbl8JD JaJ	3B1-4S7 B:	D5l8pmb5r&uwbrJa	3N
C8A5&l wbl8JD JaJ	LC: S7	t A8m8A5JJwq8apla	1
tw&JTJ Aorjcqdmpr Qla	2S279S0912J17a7-a46	tw&wJA8JuwbrJa	S22LC: . FO

3wpwbr&p	ywl	Cn5vrl1	Cn5vrl2	Cn5vrl7	cgMFCn5qF	Cn5qv:t	R5A&
c8mb A5Amb	2092	71FN0	74F6	72F2S	77FS1	-F14	Ile
c58Ab n5h	12191	7F7-	7F24	7F71	7F7S	1F02	Ile
cplr5Aq	0-92	1F64	1F7	1F6	1F0-	NF N	Ile
BwpAmb	17-91	10FSN	1-F62	16FS-	16F2-	4F61	Ile
BwpAmb	17091	16F1-	16F70	16FS2	16F1N	1FS0	Ile
Brph8Amb	91	1F07	1F61	1F=6	1F67	-F40	Ile
BAAbm8%	2S 91						E
BAAbm8%	2S 92				1S1		E
Bpmb A5r	N191						qll
CwOb Amb	1SN91	1F67	1F76	1F=6	1F=2	F72	Ile
CwOb Amb	1S691	91F70	SF0-	1F4-	SF2N	-2NF11	Ile
CwOb Amb	11191	1FN2	1F07	1F4	1F6N	1SF1S	Ile
Cw8qAmb	4791	064F6	07SFN0	041F22	04-F6	2F74	Ile
Cw8qAmb	4491	N10FS6	00-F66	060F4N	0N6F07	7F7N	Ile
Cwpen5	1291						qll
Cwpen5	1292						qll
C%8np5r	7-91						qll
C%8np5r	7-92						qll
C%pmb Amb	-292	2F0	7F7N	7F20	7F2S	6F=N	Ile
Cnew8&	- 92	1F=6	1FN1	1F6N	1F6N	0F=	Ile
CnIlrp	6792	7F4	7F0-	7F0-	7F66	4FSN	Ile
thllpnlAmb	1-691						qll
thllpnlAmb	1-692						qll
.peAmb	16491						qll
.peAmb	16492						qll
GwOn85Amb	16S91						qll
GwOn85Amb	16S92						qll
Hn8bAmb	16-91				1SS		E
Hn8bAmb	16-92				1S1		E
D5OAmb	11-91				1SS		E
D5OAmb	11-92				1S1		E
Dpn5	-492	714F7N	761F2N	77NF0S	77NF12	6F4	Ile
Dpn5	-692	71NF=0	74-F24	77 F2	774F70	4F1	Ile
Dpn5	-092	716F=-	7-7F12	740FS	77NF2	-F0N	Ile
Kphl8a5	N791						qll
LrwO	2S691	1F=6	1F64	1F6S	1F6S	2F41	Ile

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J17a7-a46	t w&WJA8 Juwb r Ja	S22LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F62	1F-	1F-0	1F-	1F7	l l e
Lr wO	2SN91	1F67	1F-	1F-0	1F6S	2FS1	l l e
LA&%Amb	691				1		E
y wW5r l Amb	2492	NS1F71	N NF1	N2NF2	N42F6S	-F 7	l l e
y w5Mw5r l r	- - 92	1F6S	1F66	1F6	1F6-	2F60	l l e
y n8neOr 5mb	491	NFN2	NF61	NF	NFNS	2F12	l l e
y n8neOr 5mb	-91	NFS1	0F77	0F00	0F0S	4F-7	l l e
y n8neOr 5mb	691	0F 0	0F- -	0F6N	0F04	2F0-	l l e
y n8neOr 5mb	091	0F4N	0F66	0F-	0F-N	1F22	l l e
y n8neOr 5mb	N91	0F-6	0F4-	0F67	0F- -	1F1	l l e
u r nOnb Amb	1-S91						ql l
u r nOnb Amb	1-S92						ql l
u Aqkr 8	6S92	1F0S	2FS	1FN-	1FNN	1SF-2	l l e
3%nl l %npm	7192	9- - FN7	1-F42	94F0-	91-FS-		l l e
3n&wl l Amb	7 92	0NSFSS	NN6FSS	N-7F06	N7 F2	6F40	l l e
v %nOAmb	1S791						E
v %nOAmb	1S792						E
: qw5OAmb	4-91				0		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F 7	0F47	0F42	0F-	7FNS	l l e
: r 8 5Amb	0092	11FS0	1SF1	6F42	F27	26F00	l l e
: r 8 5Amb	0N92	FN	1SFN2	FN6	1SF1	-F74	l l e
: A8qn5	2N91	1F7-	1FSN	1FS1	1F1-	1-F-4	l l e
: A8gr p	1S091	1F67	1F64	1F62	1F67	SF00	l l e
: A8gr p	1S 91	1F06	1F01	1F67	1F0S	4FS0	l l e
: nOAmb	2792	N-6F42	4-F06	N 7FS0	N NF42	-FSS	l l e
: 8pn5&Amb	N691	1FN7	1F00	1FN7	1FN1	1F 7	l l e
: 8pn5&Amb	NN91	1F04	1F-6	1F66	1F66	-F26	l l e
: m8mp	7491	676F 4	1-SF0S	912SF24	222F40	102F46	l l e
i r peAmb	1- 91				1SS		E
i r peAmb	1- 92						E
i %w8Amb	2S791	1F0S	1F60	1F6S	1F66	7F2S	l l e
i %w8Amb	2S-91	1F00	1F-	1F-4	1F67	0F16	l l e
i A5	11N91	SFS2	SFS1	SFS1	SFS1	41F66	l l e
i A&w5Amb	4091	NF-6	NF-1	NF71	NF46	1F6S	l l e
Rpw5Amb	27N91	1F-1	1F4N	1F4-	1F4N	1F 1	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J17a7-a46	t w&WJA8 Ju wb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	0F 1	NF60	NF40	NF7-	4F06	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				N		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	0F-	NF- -	F1-	NF47	F7-	l l e
ZAqn5Amb	S91	1F-4	1F4	1F-6	1F-7	2F71	l l e
ZAqn5Amb	191	1F6-	1F- -	1F6S	1F6S	2F -	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	- 6U57	- 6U1-	- 7U06	- 7U1J	SU77	DDe
q5Tb n5%	121 1	SU1a	SU16	SU1a	SU1J	0U1S	DDe
qpl r 5cd	07 2	SU17	SU24	SU21	SU2S	2- U4-	DDe
Bwpcmb	1- 7 1	26U50	27U00	27U2S	27U6J	1U0-	DDe
Bwpcmb	1- 0 1	20U4J	27U6S	27U44	26U10	4UJ4	DDe
Br p%8cmb	a 1	SU11	SU1S	SU1S	SU1S	7UJ0	DDe
Bdb mTE	2Sa 1				a4		G
Bdb mTE	2Sa 2				a6		G
Bpmb d5r	J1 1						dDl
v wob cmb	1SJ 1	SU5S	SU16	SU51	SU57	1a1U16	DDe
v wob cmb	1S6 1	- U1-	2U74	4U2-	- UJS		DDe
v wob cmb	111 1	SU5S	SU51	SU52	SU51		DDe
v w8dcmb	4- 1	1- 0J4U2S	1- a- - U47	1- JJ4U61	1- J60U42	SU77	DDe
v w8dcmb	44 1	14177U14	14- 4- U42	14Sa- U00	141a0U44	SUa2	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	4U1S	4U24	4U12	4U17	1UJ0	DDe
v new8T	7a 2	SU26	SU20	SU2-	SU26	0UJ1	DDe
v nDDr p	6- 2	SUJ1	SUaa	SUJ0	SUJa	aUJ1	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				a7		G
h n8b cmb	167 2				a6		G
t5ocmb	117 1				a6		G
t5ocmb	117 2				a7		G
tpm5	74 2	- 2JU0a	- 46U52	- - 7UJ7	- - 6UJa	2U70	DDe
tpm5	76 2	- 26U2-	- 4JUJa	- - 6U76	- - 0U2-	- UJ6	DDe
tpm5	70 2	- 44U70	- 7aU56	- 72U54	- 71UJa	2U56	DDe
Kp%DTh5	J- 1						dDl
Lr wo	2S6 1	SUJJ	SUJ0	SU4S	SUJJ	- U61	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	SUJ J	SU4S	SUJ6	SUJ J	7U40	DDe
Lr wo	2SJ 1	SUJ J	SU4S	SUJ0	SUJ J	- U0J	DDe
LdEomb	6 1				Ja		G
y wW5r l omb	24 2	2J20U46	- S16U2J	2aSaUJa	2a10U01	- U27	DDe
y w5Mw5r l r	77 2	11U66	12U1J	11U0J	11UJ0	2UJ2	DDe
y n8%eor 5mb	a4 1	1UJ1	1U2S	1UJS	1U20	4U0-	DDe
y n8%eor 5mb	a7 1	1U20	1UJ1	1U1a	1U26	7U5a	DDe
y n8%eor 5mb	a6 1	1UJ-	1U2J	1U21	1U20	4U00	DDe
y n8%eor 5mb	a0 1	1U40	1U2a	1UJJ	1UJJ	6U72	DDe
y n8%eor 5mb	aJ 1	1U27	1U21	1U24	1U2-	1U0J	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	1U70	1UJa	1U0-	1U0-	aUJS	DDe
NEnl DEnpm	- 1 2	21U2S	2Ua4	10Ua2	14U52	6aU4-	DDe
NnTwl omb	- a 2	1672U22	1076UJ1	16J2U57	16a0U5-	- U10	DDe
CEnoomb	1S- 1				a4		G
CEnoomb	1S- 2				a6		G
l dw5oomb	47 1				a-		G
l dw5oomb	47 2				a2		G
l r 8 5omb	J2 1	SU1S	SU64	SU12	SU14	- S7U5J	DDe
l r 8 5omb	00 2	SUJ J	2U5a	SUJ J	SU44	- 2SU50	DDe
l r 8 5omb	0J 2	SU74	1U6a	SUJ1	1U51	7aUJ6	DDe
l d8dn5	2J 1	2S2U64	212U22	2S0U1J	2S0UJ7	2UJ1	DDe
l d8gr p	1S0 1	SU51	SU5S	SU51	SU5S	62UJ0	DDe
l d8gr p	1Sa 1	SU51	SU51	SU5S	SU51	4aU2S	DDe
l noomb	2- 2	1S62JUJJ	11107U0-	1S047U26	1SJ4aUa6	2U66	DDe
l Tpm5Tomb	J6 1	66U6S	0SU20	67U60	60U71	- U6S	DDe
l Tpm5Tomb	JJ 1	66U07	60UJ0	66Ua2	60U1J	SUaS	DDe
l m8mp	- 4 1	41J6U2-	- aJ4UaJ	4121U76	4Sa0U7a	2U71	DDe
Ar peomb	17a 1				a7		G
Ar peomb	17a 2				a0		G
AEw8omb	2S- 1	SU12	SU5a	SU11	SU1S	1- Uaa	DDe
AEw8omb	2S7 1	SU5J	SU50	SU56	SU50	1- U7a	DDe
Ad5	11J 1	SUJ1	SU2a	SU1a	SU20	2- UJJ	DDe
AdTw5omb	40 1	SUJ-	1U57	SUJ6	SUa1	1- U21	DDe
Rpw5omb	2- J 1	SUa7	SUaa	SUa-	SUa7	- U27	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5TI wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gM:v n5dU	v n5dCI &	R5dT
Vw5wocmb	71 2	SU-a	SU71	SU44	SU47	1- U1S	DDe
YTTr pecmb	102 1						dDI
YTTr pecmb	102 2						dDI
YTTr pecmb	106 1						dDI
YTTr pecmb	106 2						dDI
YTTpcmb	Ja 1				a4		G
YTTpcmb	Ja 2				a7		G
Zc5d	66 2	16U24	16Ua0	17U-7	16U1a	7US-	DDe
Zqcdn5cmb	aS 1	SUSa	SU11	SU17	SU12	27U17	DDe
Zqcdn5cmb	a1 1	SUS7	SUSa	SU17	SUSa	74US-	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	4JFJS	4- F77	44F02	47F6h	6FS4	l l b
cn&mon%	121 1	SF12	SF1-	SF12	SF12	0F1-	l l b
crwenAq	07 2	SF7S	SF- 7	SF4S	SF41	1JFh4	l l b
BsrAum	1- 7 1	4- F- 2	46FS1	47F4h	44Fh4	- F1J	l l b
BsrAum	1- 0 1	4- F2S	47F67	44FJ1	44F77	2F0h	l l b
Ber%BAum	h 1	SF14	SF16	SF17	SF17	4F61	l l b
BAumu&E	2Sh 1				1SS		G
BAumu&E	2Sh 2				1S2		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF02	SF16	SF6-	SF7S	6SF16	l l b
RsOmAum	1S6 1	- F20	- F16	- Fh0	- F40		l l b
RsOmAum	111 1	SFS1	SFSS	SFS2	SFS1		l l b
RsRqAum	4- 1	20207F60	20670F4-	2J6J0F42	20J0- F71	2F62	l l b
RsRqAum	44 1	2JhhSF1-	2J111Fh7	2h7- hF42	2JJJSF7S	2F4h	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	1FhJ	1F02	1F02	1FJ1	JF4-	l l b
RobsR&	7h 2	SF74	SF72	SF70	SF74	4F0J	l l b
Rol l er	6- 2	1FS1	SFJ4	1FS2	SFh6	1SF4h	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				1SS		G
y oFmAum	167 2				1S4		G
DrOAum	117 1				hJ		G
DrOAum	117 2				1S1		G
Don	74 2	JhJF16	0h1F42	J16F0h	J- 7F46	6F60	l l b
Don	76 2	JJSFS1	0h1FSS	J- hFSS	J- 6F60	7F- 2	l l b
Don	70 2	JJJF20	J- 6FS7	JJ6F60	J0SF- -	- F41	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF- -	SF- 6	SF- 4	SF- 4	7F66	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	SF- -	SF- 2	SF2h	SF- 2	6FJJ	l l b
LesO	2SJ 1	SF- -	SF- 4	SF- 1	SF- -	4Fh4	l l b
LAEAum	6 1				JJ		G
MsgnewAum	24 2	0- 4hF- -	602SFSh	0S22F10	0S- SF7-	4F4J	l l b
Msngsnewe	77 2	61FJ1	76F- -	7hF04	7hF2h	4F66	l l b
MoP%bOenum	h4 1	7F- 1	7F7J	7F11	7F- -	4F47	l l b
MoP%bOenum	h7 1	6F2S	6F74	6F1-	6F2h	- F4h	l l b
MoP%bOenum	h6 1	6F14	6F2h	6F14	6F1h	1F- 0	l l b
MoP%bOenum	h0 1	6F1J	6F24	6F47	6F2h	2F20	l l b
MoP%bOenum	hJ 1	6FS0	6F- h	6FSJ	6F1J	2FhJ	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ7	SFJJ	SFJ1	SFJ7	4F47	l l b
8EowI Eoruw	- 1 2	- SF1h	JFJ2	JhFS6	22F76	26hF4J	l l b
8o&swwAum	- h 2	2JJSFJ7	27h7F00	206SFJ1	2047FJ1	7F21	l l b
5EoOAum	1S- 1				h6		G
5EoOAum	1S- 2				1S1		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				hh		G
pe?enAum	J2 1	SF27	SF42	SF76	SF41	- 0F16	l l b
pe?enAum	00 2	SF0h	SF- J	1F0J	SF0-	140F01	l l b
pe?enAum	0J 2	SFhh	SFSh	1F1h	SF0S	hJF4h	l l b
pAAqon	2J 1	- 22Fh-	- - SFSJ	- 24F26	- 27F06	1F10	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	21JF4h	l l b
pA?er	1Sh 1	SFS1	SFSS	SFS1	SFS1	1SSFJ0	l l b
poOAum	2- 2	2174- FJS	1h- 17Fh7	1h4J6F04	2S117F7S	6F16	l l b
p&on&Aum	J6 1	167F76	107F- 0	166F00	16hF2-	- F16	l l b
p&on&Aum	JJ 1	10SF67	1J1F1S	104F47	107F4S	- FS2	l l b
pulPur	- 4 1	1- S1JF4-	12h41F02	1- 106F21	1- S47F46	SFh2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				1S2		G
i EsPAum	2S- 1	SFSJ	SFS0	SFSJ	SFSJ	hF7h	l l b
i EsPAum	2S7 1	SFSh	SFS0	SFSJ	SFSJ	JFJ0	l l b
i An	11J 1	SF27	SF- 1	SF- S	SF2J	11F7J	l l b
i A&snAum	40 1	1F21	SFJJ	SFhS	1FSS	1JF07	l l b
UrsnAum	2- J 1	1Fh1	1FhJ	1Fh-	1Fh4	1F0h	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Re:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	SF4S	SF- 7	SF4S	SF- J	6Fh7	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				1S4		G
ZAnq	66 2	4- Fh6	- hF6J	4- F0-	42F47	7F60	l l b
ZAqonAum	hS 1	SF12	SF12	SF1S	SF11	12F62	l l b
ZAqonAum	h1 1	SF1S	SF57	SF50	SF50	- 6F- J	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	44F7J	44F21	44FS0	44F2h	SF6S	l l b
cn&mon%	121 1	SF14	SF10	SF1S	SF14	24Fh7	l l b
crwenAq	07 2	SF72	SF41	SF47	SF46	11F74	l l b
BsrAum	1- 7 1	40F26	7SF41	44F0h	40F4h	7Fh-	l l b
BsrAum	1- 0 1	46FSS	7SF2J	47Fh6	40F41	7F27	l l b
Ber%RAum	h 1	SF12	SF14	SF11	SF1-	hFh1	l l b
BAumu&E	2Sh 1				h6		G
BAumu&E	2Sh 2				h0		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF7J	SF- 7	SF40	SF40	24F14	l l b
RsOmAum	1S6 1	2Fh6	- F42	- F2h	- F22		l l b
RsOmAum	111 1	SFS2	SFS2	SFS1	SFSS		l l b
RsRqAum	4- 1	2JS14F44	- S1- SF4J	2J11JF11	2J074F- 4	4F17	l l b
RsRqAum	44 1	2J7S6FJ1	- 1- hJF21	2Jh26Fhh	2h61SF60	7F2J	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- 7 1						ql w
REPrAne	- 7 2						ql w
REromAum	72 2	1FJ6	1FhJ	1FJ0	1FhS	- F- J	l l b
RobsR&	7h 2	SF7h	SF62	SF72	SF7J	JF61	l l b
Rol l er	6- 2	SFJJ	SFJJ	SFh2	SFJh	2F7S	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoRhAum	16S 1						ql w
HsOoRhAum	16S 2						ql w
y oRmAum	167 1				h0		G
y oRmAum	167 2				1SS		G
DnOAum	117 1				h6		G
DnOAum	117 2				h0		G
Don	74 2	0h7F70	J2SF00	J1hF4-	J11Fh2	1F07	l l b
Don	76 2	J24F- 6	J27FJ1	J1JF2h	J22FJ2	SF4J	l l b
Don	70 2	J46F77	J- 6F- 1	J47F21	J42F6h	SF66	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF2h	SF- 4	SF2J	SF- S	1SF6-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	SF2J	SF2J	SF26	SF20	- F6-	l l b
LesO	2SJ 1	SF20	SF- 1	SF26	SF2J	hF1J	l l b
LA&EAum	6 1				JJ		G
MsgnewAum	24 2	044hF72	0- 01F0S	07S1F1-	044SF0J	SFJJ	l l b
Msngsnewe	77 2	61FJ2	62FJ4	61F0h	62F17	SFh6	l l b
MoP%bOenum	h4 1	7F17	7F- 6	7F- 1	7F20	2FSh	l l b
MoP%bOenum	h7 1	6FSJ	6F- h	6F- S	6F27	2F70	l l b
MoP%bOenum	h6 1	6FS4	6F76	7Fh4	6F1J	7F- 6	l l b
MoP%bOenum	h0 1	6F1S	6F7h	7FJS	6F16	6F46	l l b
MoP%bOenum	hJ 1	6F2J	6F0S	7Fh1	6F- S	6F- -	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ6	SFh0	SF00	SFJ0	11F- 7	l l b
8 EowI Eoruw	- 1 2	hF42	1JF04	14F77	4F74		l l b
8 o&swwAum	- h 2	2J02F47	2J77Fh-	2J44F66	2J70F6J	SF4h	l l b
5 EoOAum	1S- 1				h4		G
5 EoOAum	1S- 2				h0		G
pqsnOAum	47 1				h4		G
pqsnOAum	47 2				h4		G
pe?enAum	J2 1	SF42	SFJS	1FS2	SF07	4SF67	l l b
pe?enAum	00 2	SF- J	- F1S	- F1-	1Fh7	1S- F- 2	l l b
pe?enAum	0J 2	SF- S	SF44	1F- 1	SF6J	JSF14	l l b
pAAqon	2J 1	- 22FJS	- 47F- S	- 14FJ6	- 20F67	4FJ2	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	217F11	l l b
pA?er	1Sh 1	SFSS	SFS1	SFSS	SFSS	h4F64	l l b
poOAum	2- 2	211h1F06	2Sh60Fh4	21442F41	212SSF0S	1F12	l l b
p&on&Aum	J6 1	166F7-	1JSF4J	160F11	101F- 0	4F61	l l b
p&on&Aum	JJ 1	101F66	1J0FJJ	100F1h	10JFh1	4F61	l l b
pu?ur	- 4 1	12h60FJS	147- 4F0-	124h0F40	1- - - - F- -	JFSS	l l b
i erbAum	17h 1				h6		G
i erbAum	17h 2				hh		G
i EsPAum	2S- 1	SFS0	SFS7	SFSJ	SFS6	27FS4	l l b
i EsPAum	2S7 1	SFS7	SFS6	SFS7	SFS7	1- F2J	l l b
i An	11J 1	SF2-	SF21	SF1h	SF21	JF66	l l b
i A&snAum	40 1	SFJ0	SFhS	SF0J	SFJ7	6FhS	l l b
UrsnAum	2- J 1	1Fh2	2FS0	1Fh4	1FhJ	4F12	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Re:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	71 2	SF71	SF- -	SF- 7	SF- h	24Fh6	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h7		G
Y&&Aum	Jh 2				h0		G
ZAnq	66 2	42F0J	4- F- 1	4- F61	4- F2-	SFh0	l l b
ZAqonAum	hS 1	SF50	SF50	SF50	SF50	7F71	l l b
ZAqonAum	h1 1	SF50	SF50	SF50	SF50	7F40	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Aluminium	23X2	8.81	9.8O	9.66	9.4-	0.66	ppb
Antimony	121X1	O.O-	O.O-	O.O4	O.O-	23.O2	ppb
Arsenic	30X2	O.1O	O.O3	O.O3	O.O3	2O.3O	ppb
Barium	1- 0X1	9.1O	9.O9	9.36	9.- 2	4.11	ppb
Barium	1- 3X1	8.99	9.11	9.62	9.24	- .6O	ppb
Beryllium	9X1	O.O4	O.O4	O.O0	O.O4	- .92	ppb
Bismuth	2O9X1				1O2		%
Bismuth	2O9X2				1O2		%
Bromine	81X1						cps
Cadmium	1O8X1	O.- 4	O.10	O.01	O.- -	04.81	ppb
Cadmium	1O6X1	X2.0-	X1.48	X1.03	X1.86		ppb
Cadmium	111X1	XO.O4	XO.O1	XO.O-	XO.O-		ppb
Calcium	4- X1	0489.16	0323.03	08O- .21	063- .- 1	2.89	ppb
Calcium	44X1	0398.18	6O44.4O	6180.30	6OO9.44	- .26	ppb
Carbon	12X1						cps
Carbon	12X2						cps
Chlorine	- 0X1						cps
Chlorine	- 0X2						cps
Chromium	02X2	O.- 0	O.4-	O.- 9	O.- 9	1O.66	ppb
Cobalt	09X2	O.12	O.O9	O.12	O.11	16.99	ppb
Copper	6- X2	O.28	O.- -	O.- 4	O.- 2	11.41	ppb
Dysprosium	106X1						cps
Dysprosium	106X2						cps
Erbium	164X1						cps
Erbium	164X2						cps
Gadolinium	16OX1						cps
Gadolinium	16OX2						cps
Holmium	160X1				1O2		%
Holmium	160X2				1O4		%
Indium	110X1				1O2		%
Indium	110X2				1O2		%
Iron	04X2	166.01	166.03	163.28	166.39	O.26	ppb
Iron	06X2	166.- 4	169.40	16- .48	166.42	1.39	ppb
Iron	03X2	136.32	191.- 4	132.- 6	18O.14	0.02	ppb
Krypton	8- X1						cps
Lead	2O6X1	O.O8	O.O9	O.O9	O.O8	0.- -	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Lead	2O3X1	O.O0	O.O3	O.O0	O.O6	2O.82	ppb
Lead	2O8X1	O.O3	O.O6	O.O3	O.O3	0.90	ppb
Lithium	6X1				92		%
Magnesium	24X2	1438.11	1484.20	141- .8-	1408.3-	2.63	ppb
Manganese	00X2	12.41	12.1-	11.34	12.O9	2.38	ppb
Molybdenum	94X1	1.19	1.19	1.O4	1.14	3.01	ppb
Molybdenum	90X1	1.O8	1.14	1.2-	1.10	6.- 0	ppb
Molybdenum	96X1	1.14	1.22	1.- 2	1.2-	3.- 6	ppb
Molybdenum	93X1	1.13	1.20	1.4O	1.23	9.- -	ppb
Molybdenum	98X1	1.13	1.22	1.- O	1.2-	0.4O	ppb
Neodymium	10OX1						cps
Neodymium	10OX2						cps
Nickel	6OX2	O.21	O.10	O.21	O.19	13.98	ppb
Phosphorus	- 1X2	X13.8O	X- 4.O1	X26.98	X26.23		ppb
Potassium	- 9X2	084.- 4	084.16	003.- 8	030.29	2.3O	ppb
Rhodium	1O- X1				1OO		%
Rhodium	1O- X2				1O-		%
Scandium	40X1				98		%
Scandium	40X2				98		%
Selenium	82X1	O.2-	XO.- 0	XO.22	XO.11		ppb
Selenium	33X2	XO.- 8	XO.- 8	XO.- 8	XO.- 8		ppb
Selenium	38X2	O.44	O.O0	O.O3	O.19	118.0-	ppb
Silicon	28X1	62.18	60.6O	63.08	60.12	4.2O	ppb
Silver	1O3X1	O.OO	O.OO	O.O1	O.OO	18- .6-	ppb
Silver	1O9X1	O.OO	O.OO	O.OO	O.OO		ppb
Sodium	2- X2	4210.O4	4140.10	41O2.OO	4104.O6	1.- 3	ppb
Strontium	86X1	- - .82	- 4.18	- 4.18	- 4.O6	O.62	ppb
Strontium	88X1	- 2.64	- 4.O2	- - .21	- - .29	2.O9	ppb
Sulfur	- 4X1	1630.83	2O98.11	2216.04	1996.84	14.2-	ppb
Terbium	109X1				1O1		%
Terbium	109X2				1O-		%
Thallium	2O- X1	O.O4	O.O4	O.O0	O.OO	16.14	ppb
Thallium	2OOX1	O.O4	O.O4	O.O4	O.O4	11.22	ppb
Tin	118X1	O.12	O.O6	O.O6	O.O8	41.03	ppb
Titanium	43X1	O.14	O.14	O.13	O.10	12.29	ppb
Uranium	2- 8X1	O.- 8	O.- 8	O.- 9	O.- 8	1.4O	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Vanadium	01X2	O.O8	O.O8	O.O0	O.O3	19.86	ppb
Ytterbium	132X1						cps
Ytterbium	132X2						cps
Ytterbium	136X1						cps
Ytterbium	136X2						cps
Yttrium	89X1				1OO		%
Yttrium	89X2				1O1		%
Zinc	66X2	9.28	9.46	8.94	9.2-	2.84	ppb
Zirconium	9OX1	O.OO	O.O2	O.O1	O.O1	1O1.91	ppb
Zirconium	91X1	O.OO	O.O1	O.OO	O.OO	2693.40	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	210hFh1	220SFS4	224- F- 1	22- 1FSh	2FS0	l l b
cn&mon%	121 1	hhF0S	hhF1S	1SSF6h	hhFJ-	SFJ1	l l b
crwenAq	07 2	41F- -	42F07	41F67	41Fh1	1F0h	l l b
BsrAum	1- 7 1	2- 2JF4J	2- - 6FJJ	2242FJ7	2- S2F0-	2F26	l l b
BsrAum	1- 0 1	226SF26	22- 4FJh	22S0F- 4	22- 4F16	1F1J	l l b
Ber%BAum	h 1	7- FS4	77FSS	77F11	74F- J	2F14	l l b
BAumu&E	2Sh 1				hJ		G
BAumu&E	2Sh 2				hJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	41F44	47F10	47F- 0	4- Fhh	7FS4	l l b
RsOmAum	1S6 1	- hFS7	- JF21	- hF- h	- JFJJ	1F70	l l b
RsOmAum	111 1	7- F- 4	72F1J	7SFhJ	72F10	2F26	l l b
RsRqAum	4- 1	2061SF6S	20h17F0h	2J- 0SF72	20h67F64	1F- 0	l l b
RsRqAum	44 1	2J40- F46	2J6- hFJh	2Jh40FS1	2J6J6F0h	SFJ4	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	216F64	227F04	221F6-	221F- -	2FS6	l l b
RobsR&	7h 2	700FS1	611F4S	611F6S	6SSFSS	- F- 2	l l b
Rol l er	6- 2	20SFS4	2JSF64	206F21	207F6-	1Fh-	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				hh		G
y oFmAum	167 2				hh		G
DnOAum	117 1				hJ		G
DnOAum	117 2				h0		G
Don	74 2	16- 7Fh1	16hJFJ7	167SF46	1661F04	1FhJ	l l b
Don	76 2	176- FJ2	1642FS6	1614F1S	16S6F66	2F40	l l b
Don	70 2	1407F21	17JSF44	17- 4F0J	17- SF14	- F47	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	1JFS6	1JF64	1JF2-	1JF- 1	1F62	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	1JF41	1JF74	1JF46	1JF40	SF-0	l l b
LesO	2SJ 1	1JF1h	1JF77	1JF76	1JF4-	1F14	l l b
LAEAum	6 1				hS		G
MsgnewAum	24 2	0140F26	046SF0J	04S1F64	0- - 6F76	2F20	l l b
Msngsnewe	77 2	70JFS1	612F0J	7h2F2-	7h4F-4	2Fh4	l l b
MoP%bOenum	h4 1	7F2J	7F7S	7F22	7F-4	2F0-	l l b
MoP%bOenum	h7 1	6F16	6FS0	6FS4	6FSh	1FS-	l l b
MoP%bOenum	h6 1	6F14	6F2-	7Fh0	6F11	2F22	l l b
MoP%bOenum	h0 1	6FS-	6F41	6FS-	6F17	- F77	l l b
MoP%bOenum	hJ 1	6FS2	6F-0	7FhJ	6F12	- F77	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	700F4J	7h6F12	7h7F-0	7JhF67	1F0h	l l b
8EowI Eoruw	- 1 2	2JF0-	hFS1	7F-6	1SF0h		l l b
8o&swwAum	- h 2	200SF2-	2J42F4h	2J40FSh	2J1hFh4	1F7-	l l b
5EoOAum	1S- 1				h7		G
5EoOAum	1S- 2				hJ		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				h7		G
peRenAum	J2 1	h7F7h	1SSF12	h6F47	h0F-h	2F40	l l b
peRenAum	00 2	114F4J	1S0FS2	J4F77	1S2FS2	17F20	l l b
peRenAum	0J 2	1S6F0S	1S7F71	1S6F22	1S6F14	SF76	l l b
pARqon	2J 1	- 21F0S	- 2JF40	- - 4F27	- 2JF14	1Fh1	l l b
pARer	1S0 1	4- FJ7	4- Fh6	42Fh-	4- F7J	1F2h	l l b
pARer	1Sh 1	4- F42	42FhJ	4- FJS	4- F4S	SFh7	l l b
poOAum	2- 2	2S0- 6FS2	217S0F6S	21116F2h	2111hFh0	1FJ-	l l b
p&ona&Aum	J6 1	167FS6	10- FS-	167F4h	160FJ6	2F60	l l b
p&ona&Aum	JJ 1	102F44	104F1S	104F42	10- F66	SF61	l l b
pufFur	- 4 1	12010F64	12J- JF07	1- S72FJ4	12J6hF04	1F-2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				hh		G
i EsRAum	2S- 1	44FhJ	46F21	46F21	47FJS	1F77	l l b
i EsRAum	2S7 1	46F27	46FJ7	40F17	46F07	SFhJ	l l b
i An	11J 1	SF21	SF2J	SF-4	SF2J	2- F2h	l l b
i A&snAum	40 1	1FS1	1F17	1F1-	1F1S	6Fh4	l l b
UrsnAum	2- J 1	1FJJ	1FhS	1Fh0	1Fh2	2F4-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&w
VsnsOAum	71 2	76JF4h	7JJF20	7JSF40	70hFSJ	1F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				hJ		G
ZAnq	66 2	7JSF10	6SJF76	7h4F20	7h4F- -	2F- h	l l b
ZAqonAum	hS 1	SF5J	SF5J	SF5J	SF5J	- Fh2	l l b
ZAqonAum	h1 1	SF1-	SF12	SF5J	SF11	2- F- 0	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	44F61	46F1-	48F86	46F7-	4F6-	I I b
c n&Amon%	121 1	SF2S	SF21	SF18	SF2S	hFS1	I I b
c rsenAq	07 2	SF- 8	SF46	SF48	SF44	1SF8-	I I b
BarAum	1- 7 1	47F17	47F14	4SF60	4- F67	7Fh2	I I b
BarAum	1- 0 1	47F41	46FS7	4SF44	4- Fh0	6Fh8	I I b
Ber%lAum	h 1	SF14	SF14	SF17	SF17	- F8S	I I b
BAsmu&E	2Sh 1				1S2		G
BAsmu&E	2Sh 2				1SS		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SF24	SF4-	SFSS	SF22	h7F80	I I b
RaOmAum	1S6 1	4F4S	4F1h	- F10	- Fh2		I I b
RaOmAum	111 1	SFS1	SFS2	SFS-	SFS1	- 4hF8S	I I b
RalqAum	4- 1	20718F0-	20- 12F1h	242- SF64	26- 7- F87	6Fhh	I I b
RalqAum	44 1	28S87FS2	20hS1F1h	246h0Fh6	268h4F02	0FS8	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- 7 1						ql s
REIorAne	- 7 2						ql s
REromAum	72 2	2F48	2F78	2F7-	2F7-	2FS0	I I b
Robal&	7h 2	SF00	SF0-	SF06	SF07	2F4h	I I b
RoI I er	6- 2	SFh6	SFh7	SFh8	SFh6	1F7-	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				1S4		G
y olmAum	167 2				1S1		G
DnOAum	117 1				1S4		G
DnOAum	117 2				hh		G
Don	74 2	146F7-	14- F20	176F2S	148F60	4F7-	I I b
Don	76 2	146FS-	140F2S	146F4h	146F70	SF4S	I I b
Don	70 2	180F8S	187FS-	1h4F11	188Fh8	2F46	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	SF4-	SF48	SF41	SF44	8F87	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	SF- h	SF42	SF- 6	SF- h	8F14	I I b
LeaO	2S8 1	SF42	SF46	SF- 8	SF42	hF- 8	I I b
LA&EAum	6 1				h2		G
MagnesAum	24 2	0120F61	02S4FS7	0282F01	02S4F0h	1FS8	I I b
Manganese	77 2	6SFS-	78F62	6SF6-	7hF06	1F0-	I I b
Mol%bOenum	h4 1	7F- 2	7F- S	4F6S	7FS8	8F1S	I I b
Mol%bOenum	h7 1	6FSS	6FSh	7F48	7F36	7F61	I I b
Mol%bOenum	h6 1	7FhS	7Fh1	7F21	7F60	0FSh	I I b
Mol%bOenum	h0 1	6F16	6FS4	7F4S	7F30	0FS2	I I b
Mol%bOenum	h8 1	6F2-	7Fh8	7F- h	7F30	0F- 8	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	1F44	1F71	1F7h	1F71	7FS1	I I b
PEosI Eorus	- 1 2	7F4S	2F2h	18Fh0	0F- 6		I I b
Po&assAum	- h 2	20h- Fh7	2087F- 6	2828F7S	28S2F6S	SF31	I I b
5 EoOAum	1S- 1				1S1		G
5 EoOAum	1S- 2				hh		G
pqanOAum	47 1				1S2		G
pqanOAum	47 2				h6		G
pelenAum	82 1	SF0S	SF7h	SF36	SF02	1hF18	I I b
pelenAum	00 2	SF- 8	SF06	SF- 8	SFSS	h4208F31	I I b
pelenAum	08 2	SF10	SF01	SF- 4	SF4S	68FS7	I I b
pAAqon	28 1	- 21F0h	- 18F38	281FSh	- S0F27	0F- h	I I b
pAver	1S0 1	SFSS	SFSS	SFS1	SFSS	h- F- -	I I b
pAver	1Sh 1	SFS1	SFS1	SFSS	SFS1	- 2F31	I I b
poOAum	2- 2	2S77- F31	21S72F2S	2S884F06	2S8- SF26	1F22	I I b
p&ona&um	86 1	162F2-	167F12	146Fh2	178FSh	6F1h	I I b
p&ona&um	88 1	16hF- -	102FSh	148F77	16- F- 2	0F38	I I b
pulfur	- 4 1	12- 80F20	11h01F70	h217F7S	111h1F47	17F4S	I I b
i erbAum	17h 1				1S4		G
i erbAum	17h 2				1SS		G
i EallAum	2S- 1	SFS8	SFS0	SFS6	SFS0	1SF46	I I b
i EallAum	2S7 1	SFS0	SFS6	SFS0	SFS0	6F74	I I b
i An	118 1	2Fhh	- FS8	2F6S	2F3h	8F0S	I I b
i A&anAum	40 1	SF08	SFh0	SF60	SF31	1hF27	I I b
UranAum	2- 8 1	1Fh1	1F37	1F0-	1F3-	4Fh6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	71 2	SF76	SF4h	SF60	SF70	17F2-	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8h 1				1S2		G
Y&&Aum	8h 2				hh		G
ZAnq	66 2	40F71	47Fh6	46F02	46F0-	1F66	I I b
ZAqonAum	hS 1	SF58	SF56	SF58	SF50	16F76	I I b
ZAqonAum	h1 1	SF58	SF50	SF56	SF50	1- F16	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:1- 976974	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	46U2	40U45	44U42	46U58	-U6	I I b
c n&Amon%	121 1	SU15	SU10	SU17	SU10	12U08	I I b
c rsenAq	07 2	SU47	SU47	SU71	SU40	0U18	I I b
BarAum	1- 7 1	7SU17	47U71	42U55	46U22	0U36	I I b
BarAum	1- 0 1	45U62	42U62	4- U37	47U6	8U27	I I b
Ber%IAum	5 1	SU17	SU1-	SU12	SU1-	5U67	I I b
BAsmu&E	2S5 1				57		G
BAsmu&E	2S5 2				1SS		G
BromAne	81 1						ql s
v aOmAum	1S8 1	SU45	SU5	SU77	SU48	16U7S	I I b
v aOmAum	1S6 1	7US	2U25	SU46	2U68		I I b
v aOmAum	111 1	SUS-	SUS4	SUS2	SUS1	474US5	I I b
v alqAum	4- 1	- - 571U0-	28- 48U50	25200US	- S726USS	5U34	I I b
v alqAum	44 1	- 4024U10	258SSU0-	- SS75U42	- 1728U11	8U05	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	- 7 1						ql s
v ElorAne	- 7 2						ql s
v EromAum	72 2	SU74	SU71	SU72	SU72	-U8	I I b
v obal&	75 2	SU64	SU6-	SU6S	SU62	-U7S	I I b
v ol I er	6- 2	SU52	SU3S	SU34	SU37	0U14	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	167 1				54		G
h olmAum	167 2				1S1		G
DnOAum	117 1				5-		G
DnOAum	117 2				1SS		G
Don	74 2	04U10	02U37	0SU05	02U61	2U7	I I b
Don	76 2	00U0	02U48	65U3-	0- U2-	7U22	I I b
Don	70 2	1S0U70	1S5U51	110US2	111U7S	4U42	I I b
Kr%I &on	8- 1						ql s
LeaO	2S6 1	SUS	SU15	SU21	SU2-	2- U34	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	SU1	SU15	SU15	SU2-	28U52	I I b
LeaO	2S8 1	SU28	SU22	SU22	SU24	14U71	I I b
LA&EAum	6 1				80		G
y aMhesAum	24 2	8287U S	81S6US6	0574U14	8117U16	2US4	I I b
y anManese	77 2	70U66	77U08	74U1	77U52	- USS	I I b
y ol%bOenum	54 1	8U2	0U77	0U5	0U06	6U41	I I b
y ol%bOenum	57 1	6U84	6U17	6U18	6U5	6U17	I I b
y ol%bOenum	56 1	0U18	6U2	6U44	6U64	6U50	I I b
y ol%bOenum	50 1	0US1	6U48	6US4	6U71	0U40	I I b
y ol%bOenum	58 1	0US4	6U12	6U24	6U40	0U01	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	SU68	SU05	SU60	SU01	5U48	I I b
PEosI Eorus	- 1 2	- SU1-	- - U56	26U45	0U77		I I b
Po&assAum	- 5 2	286- US7	2002U4-	2686U66	2004US7	- U18	I I b
CEoOAum	1S- 1				5-		G
CEoOAum	1S- 2				1SS		G
pqanOAum	47 1				52		G
pqanOAum	47 2				56		G
pelenAum	82 1	1U10	1US0	SU81	1US2	10U55	I I b
pelenAum	00 2	1U51	SU00	2U52	1U80	70U06	I I b
pelenAum	08 2	SU02	SU72	SU84	SU65	2- U46	I I b
pAAqon	28 1	- 65U8-	- 17U10	- 2- U77	- - 6U18	8U06	I I b
pAger	1S0 1	SUS1	SUS1	SUSS	SUS1	6- US8	I I b
pAger	1S5 1	SUS1	SUSS	SUSS	SUSS	180U10	I I b
poOAum	2- 2	22825U76	22228U4-	22- 51U85	2248- U S	1U8	I I b
p&ona&Aum	86 1	211U7-	108U50	105U74	15SUS1	5U81	I I b
p&ona&Aum	88 1	210U51	181U0	18- U22	154U10	1SU6S	I I b
pulfur	- 4 1	1584- U46	17160U86	17855U14	1650SU17	14U82	I I b
i erbAum	175 1				57		G
i erbAum	175 2				1S1		G
i EallAum	2S- 1	SUS0	SUS4	SUS7	SUS7	26U4	I I b
i EallAum	2S7 1	SUS6	SUS4	SUS4	SUS4	22U65	I I b
i An	118 1	SU42	2U42	SU7	1US6	11SU-	I I b
i A&anAum	40 1	1U25	1U2	SU81	1U14	24U06	I I b
RranAum	2- 8 1	2U7	1U55	2US-	2U12	5U24	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	71 2	SU7	SU8	SU7	SU6	4U06	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	85 1				52		G
Y&&Aum	85 2				1SS		G
ZAnq	66 2	- 6U47	- 7U87	- 4U61	- 7U64	2U64	I I b
ZAqonAum	5S 1	1U76	1U7	1U0	1U4-	8U2-	I I b
ZAqonAum	51 1	1U04	1U22	1U25	1U42	15U84	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J97 2	&sTsFdPP:u sb r :9	S- SqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	0U76	7UJ1	6U71	6U66	12U70	DDe
q5Tb n5%	121 1	SUS0	SUS6	SUSJ	SUS0	1NUJ4	DDe
qpwr 5cd	07 2	SUS2	SUS-	SUS1	SUS2	4- USJ	DDe
Bspcmb	1- 7 1	2U6-	2UJ4	2U6S	2U7-	6U20	DDe
Bspcmb	1- 0 1	2U67	2U64	2U76	2U62	1UN-	DDe
Br p%PPmb	J 1	SUS2	SUS2	SUS1	SUS2	2- U26	DDe
Bcvb mTE	2SJ 1				J6		G
Bcvb mTE	2SJ 2				JJ		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUS7	SUS-	SUJ-	SU1S	1J1UN4	DDe
v sob cmb	1S6 1	2UJ0	- U62	6U12	4U24		DDe
v sob cmb	111 1	SUS1	SUS2	SUSN	SUS4		DDe
v sPdcmb	4- 1	67UJ0	6JU1J	64U4-	66U7-	- U67	DDe
v sPdcmb	44 1	11- UN7	117U14	1SJUJ-	112UJ0	2U4S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	1UJ1	1UJ4	1U06	1UN0	7US2	DDe
v nesPT	7J 2	SU16	SU12	SU1-	SU14	12UN7	DDe
v nDDr p	6- 2	SU40	SU71	SU41	SU46	1SU2J	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				J6		G
h nPb cmb	167 2				1SS		G
t5ocmb	117 1				J7		G
t5ocmb	117 2				J0		G
tpn5	74 2	404U11	406USJ	40- U61	404U6S	SU2N	DDe
tpn5	76 2	401U0-	4N6USO	40- UJS	400U2-	1U62	DDe
tpn5	70 2	407U7S	4JSU76	476U06	404U20	- U70	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	SUJN	SUJ-	SUJN	SUJ0	0UJ-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 724 S0	t5wTpmb 5r Tusb r :9	8 N
v R 5TI sb DP:t&:9	y h SFqS	&dmTm5:FsdTnp:9	1
&sT :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdP:usb r :9	S- SqC. Fub

8spsb r Tp	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	SU4	SU1	SU4S	SU7	12U4-	DDe
Lr so	2SN 1	SU6	SU4	SU0	SU6	- UJJ	DDe
LdEmb	6 1				N7		G
y sM5r wmb	24 2	0U02	JU6	6U44	0UN4	1NU6N	DDe
y s5Ms5r wr	77 2	- U7N	- U0N	- U4-	- U6S	4UJ4	DDe
y nP%eor 5mb	J4 1	SUS-	SUSJ	SU1-	SUSN	7NU0	DDe
y nP%eor 5mb	J7 1	SUS0	SUS-	SUSJ	SUS6	42U64	DDe
y nP%eor 5mb	J6 1	SUS7	SU11	SUS6	SUS0	4- USN	DDe
y nP%eor 5mb	J0 1	SUS6	SUS6	SUS4	SUS7	22U74	DDe
y nP%eor 5mb	JN 1	SUS4	SUS6	SUS0	SUS6	- 2U17	DDe
u r no%b mb	17S 1						dDw
u r no%b mb	17S 2						dDw
u dkr P	6S 2	1U07	1U04	1U02	1U04	1US0	DDe
8 EnwDEnpmw	- 1 2	0UJS	JU6-	JUJ7	2U04		DDe
8 nTswwmb	- J 2	40U61	72UN0	44U7J	4NU6	NU66	DDe
CEnomb	1S- 1				J7		G
CEnomb	1S- 2				JN		G
I ds5omb	47 1				J4		G
I ds5omb	47 2				J6		G
I r P 5mb	N2 1	SU11	SU0-	SU14	SU2-		DDe
I r P 5mb	00 2	SUJN	SUJN	1UJS	SUJN	- 44U7-	DDe
I r P 5mb	0N 2	SU7-	SU72	SU1-	SU1	121U00	DDe
I dRdn5	2N 1	1U7S	1U-	1U2	1UN	0U24	DDe
I dgr p	1S0 1	SUSS	SUS1	SUS1	SUSS	102U12	DDe
I dgr p	1SJ 1	SUSS	SUSS	SUSS	SUSS		DDe
I nomb	2- 2	266UNN	267U42	26SU76	264U2N	1U27	DDe
I Tpm5Tmb	N6 1	SU26	SU22	SU2-	SU24	NU72	DDe
I Tpm5Tmb	NN 1	SU21	SU21	SU22	SU22	1U67	DDe
I mPmp	- 4 1	22U27	26NU7-	44NU4	246U0		DDe
Ar pemb	17J 1				J0		G
Ar pemb	17J 2				JN		G
AEs Rmb	2S- 1	SUS7	SUS4	SUS7	SUS7	JU6	DDe
AEs Rmb	2S7 1	SUS4	SUS-	SUS2	SUS-	1JUSN	DDe
Ad5	11N 1	SU0	SU4	SU6	SU6	- U64	DDe
AdS5mb	40 1	1U4	1U62	1U42	1U46	1SUS4	DDe
Rps5mb	2- N 1	SUSS	SUSS	SUSS	SUSS	- 4U4	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdP:u sb r :9	S- SqC. Fub

8 sspsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	SUS4	SUS7	SUS7	SUS7	10U66	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	NJ 1				J7		G
YTTpomb	NJ 2				JN		G
Zc5d	66 2	NU0S	NU7-	NU60	NU64	1US7	DDe
Zqpdn5omb	JS 1	SUS1	SUS2	SUSS	SUS1	NNU0S	DDe
Zqpdn5omb	J1 1	SUS4	SUS1	SUS2	SUS2	17NU41	DDe

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Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	:SF11	:SF5-	SF50	:SF57		l l b
c5&mn5h	121:1	SF51	SF51	SF51	SF51	74F0-	l l b
crwe5Aq	0-:2	SF57	SF5S	SF51	SF51	1S7F 6	l l b
BsrAum	17-:1	SF5S	SF51	SF5S	SF5S	181F04	l l b
BsrAum	170:1	SF5S	SF51	:SF51	SF5S	1---F41	l l b
BerhFAum	:1	SF5S	SF51	SF5S	SF51	1- F40	l l b
BAumu&%	2S :1				1S2		E
BAumu&%	2S :2				1S7		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF74	SF-7	SF14	SF74	-8F00	l l b
CsOmAum	1S6:1	:7F6-	:2F52	:7F88	:7F18		l l b
CsOmAum	111:1	:SF5-	:SF5-	:SF54	:SF5-		l l b
CsRqAum	47:1	SF7	:SF8	:1F57	:SF-1		l l b
CsRqAum	44:1	28F88	26F68	20F1	20F-8	4F18	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	:SF51	SF5-	:SF56	:SF51		l l b
CnbsR&	- :2	:SF51	:SF51	SF5S	:SF51		l l b
CnI l er	67:2	SF50	SF50	SF14	SF5	78F82	l l b
t hwl rnwAum	1-6:1						ql w
t hwl rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S1		E
HnRmAum	16-:2				1S4		E
D5OAum	11-:1				1S1		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	SF22	:SF52	SF14	SF11	111F22	l l b
Dn5	-6:2	SF5	SF54	SF2S	SF11	04F2	l l b
Dn5	-0:2	:1F22	:SF-S	:SF74	:SF6		l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF51	SF5S	:SF51	SF5S	70-F	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S1	SF5S1	SF5S2	SF5S1	4-F1S	I I b
LesO	2S8:1	SF5S2	SF5SS	SF5SS	SF5S1	6F84	I I b
LA&%Aum	6:1				7		E
y sM5ewAum	24:2	SF24	SF1	:SF5-	SF17	127F-2	I I b
y s5Ms5ewe	- - :2	SF54	SF52	SF54	SF57	40F1-	I I b
y nPbOe5um	4:1	SF51	SF5-	SF5-	SF54	-6F1-	I I b
y nPbOe5um	- :1	SF5S	SF51	SF51	SF51	70F24	I I b
y nPbOe5um	6:1	SF51	SF52	SF51	SF51	-4F71	I I b
y nPbOe5um	0:1	SF5S	SF54	SF5S	SF51	1-8F2	I I b
y nPbOe5um	8:1	SF51	SF5S	SF5S	SF51	7F78	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF51	SF51	SF5S	SF51	- -F21	I I b
3%nwl %nruw	71:2	:7 F26	SF14	:44F46	:20F86		I I b
3n&swwAum	7 :2	4F60	6F8S	1SF8-	0F44	42F21	I I b
v %nOAum	1S7:1				1S1		E
v %nOAum	1S7:2				1S-		E
pqs5OAum	4- :1				1S1		E
pqs5OAum	4- :2				1S1		E
pefe5Aum	82:1	:SF61	:SF20	:SF1	:SF76		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	:SF-0	:SF10	SF48	:SF5		I I b
pAAqn5	28:1	SF22	SF57	SF58	SF11	SF58	I I b
pAger	1S0:1	SF51	SF51	SF5S	SF51	0F27	I I b
pAger	1S :1	SF5S	SF51	SF51	SF5S	81F6S	I I b
pnOAum	27:2	72F42	70F74	48F41	7 F7	2SF8S	I I b
p&n5&Aum	86:1	:SF57	SF50	:SF51	SF51	4-8F21	I I b
p&n5&Aum	88:1	SF57	SF57	SF5S	SF52	6F4S	I I b
pufur	74:1	:-S6F-6	:8- -F-2	:4-4F 2	:6S-F60		I I b
i erbAum	1- :1				1S2		E
i erbAum	1- :2				1S7		E
i %sPAum	2S7:1	SF57	SF54	SF54	SF54	18F7S	I I b
i %sPAum	2S-:1	SF52	SF52	SF54	SF57	24F52	I I b
i A5	118:1	:SF51	SF5S	SF1-	SF5-	1 6F21	I I b
i A&5Aum	40:1	SF5S	:SF5-	SF52	:SF51		I I b
Rrs5Aum	278:1	SF5S	SF5S	SF5S	SF5S	2F48	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 4JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	-1:2	:SF5S1	SF5SS	:SF5S1	SF5SS		l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S2		E
Y&&Aum	8 :2				1S8		E
ZA5q	66:2	:SF5S8	:SF5S0	SF5S7	:SF5S4		l l b
ZAqn5Aum	S:1	:SF5S1	SF5S1	SF5SS	SF5SS	1-86F4-	l l b
ZAqn5Aum	1:1	SF5SS	:SF5S1	:SF5S1	:SF5S1		l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l 8pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J14aS a14	t w&wJA8 Ju wb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	77F6	74F-S	4SF-0	76F2-	1SF70	l l e
c58Ab n5h	12191	7F1N	7F2-	7F2N	7F27	1F-4	l l e
cpl r 5Aq	0-92	1FNS	1F 1	1F62	1F0N	NF7S	l l e
BwpAmb	17-91	1-F76	16F41	16F72	16FS7	7F62	l l e
BwpAmb	17091	1-F6N	16F7-	16F10	16FS0	2F16	l l e
Br ph8Amb	91	1F62	1F6S	1F-1	1F-N	7F6-	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S-		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	2FSN	1F 0	2FN4	2F2	2SF-	l l e
CwCb Amb	1S691	SF1-	9-F4N	SF74	91F66		l l e
CwCb Amb	11191	1F S	1F00	1F64	1F00	0F2N	l l e
Cw8qAmb	4791	04SF02	024FN2	02NF-0	071F70	1F14	l l e
Cw8qAmb	4491	0-4F06	07 F61	062F01	0-2F76	1F-6	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%8np5r	7-91						ql l
C%8np5r	7-92						ql l
C%pmb Amb	-292	7F27	7F1N	7F21	7F21	SF0N	l l e
Cnew8&	- 92	1F6N	1F6	1F6	1F6	SF7S	l l e
CnI l r p	6792	7F6S	7F67	7F6S	7F61	SF-7	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn85Amb	16S91						ql l
GwOn85Amb	16S92						ql l
Hn8b Amb	16-91				1S7		E
Hn8b Amb	16-92				1S-		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S7		E
Dpn5	-492	774F0N	742F70	776FN2	770F	1F16	l l e
Dpn5	-692	774FN4	77 F-N	772F2-	77-F-6	1F11	l l e
Dpn5	-092	726F0-	726F-N	720FS4	726F0	SFS0	l l e
Kphl 8a5	N791						ql l
LrwO	2S691	1F4	1F-2	1F4N	1F-S	1F42	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 2SB:	D5l &pmb 5r &uwb r Ja	3N
C&A5&J wb l &JD JaJ	LC: 2S	t A&m&A5JJwq&apJa	1
t w&JTJ A&r Jcqdm&r QJa	2S279S0912J14aS a14	t w&wJA&JuwbrJa	S77LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
LrwO	2S091	1F-	1F40	1F4	1F- S	2F06	I l e
LrwO	2SN91	1F4	1F- 1	1F40	1F4	1F7	I l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N- 7F- 1	N- 2F14	N7NF76	N4NFSS	SF	I l e
y w5Mw5r l r	- - 92	1F02	1FN6	2FSS	1FN6	0F4	I l e
y n8neOr 5mb	491	NFNS	NF- 1	NF6-	NF0	1F- 2	I l e
y n8neOr 5mb	- 91	0F71	0F7S	0F- 6	0F7	1F 6	I l e
y n8neOr 5mb	691	0F46	0F- 1	0F6-	0F- 4	1F7S	I l e
y n8neOr 5mb	091	0FS4	0F6N	0F7	0F70	4F76	I l e
y n8neOr 5mb	N91	0F4S	0F2-	0F40	0F70	1F- 0	I l e
u r nOhb Amb	1- S91						q l l
u r nOhb Amb	1- S92						q l l
u Aqkr 8	6S92	1FN6	2F1S	2FS6	2FSS	6F74	I l e
3 %nl l %npm	7192	920FN-	916FN2	971F6	92- F4-		I l e
3 n&w l Amb	7 92	N12F N	N2 F-	NS0F- N	N16F0S	1F4S	I l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4- 91				1S1		E
: qw5OAmb	4- 92				1S1		E
: r & 5Amb	N291	NFSN	NF- 4	NF- 0	NF4S	7F2	I l e
: r & 5Amb	0092	12F66	1SF62	4F00	F7-	47FNS	I l e
: r & 5Amb	0N92	F4S	1SF- 4	NFS0	F74	17F2-	I l e
: A&qn5	2N91	1F22	SF 4	1F11	1FS	17FS7	I l e
: A&gr p	1S091	1F4	1F64	1F01	1F61	6F N	I l e
: A&gr p	1S 91	1F64	1F67	1F62	1F67	SF6S	I l e
: nOAmb	2792	NN7FNN	S1F4N	N- SF7	N0NF- N	2F -	I l e
: &m5&Amb	N691	1F02	1F- 6	1F6S	1F67	- F1-	I l e
: &m5&Amb	NN91	1F6S	1F- 4	1F- 4	1F- 6	2FS0	I l e
: m&mp	7491	9476FS0	956- F2N	9470F27	9- 12FN6		I l e
i r peAmb	1- 91				1S2		E
i r peAmb	1- 92				1S4		E
i %w&Amb	2S791	1F- 0	1F- 0	1F- N	1F- 0	SF2N	I l e
i %w&Amb	2S- 91	1F- -	1F- 2	1F- 6	1F- 4	1F2N	I l e
i A5	11N91	SFS4	9SFS2	SFS2	SFS1	24SF- 0	I l e
i A&w5Amb	4091	NF7S	0FN2	0F64	0F 2	4F71	I l e
Rpw5Amb	27N91	1F47	1F46	1F46	1F4-	1F26	I l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J14aS a14	t w&WJA8 Ju wb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	- 192	NF74	NF- N	NF- 7	NF4N	1F4N	l l e
Y8& pe Amb	10291						ql l
Y8& pe Amb	10292						ql l
Y8& pe Amb	10691						ql l
Y8& pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S-		E
ZA5q	6692	NF S	F41	NF42	NF 1	- F- 0	l l e
ZAqn5Amb	S91	1F41	1F4N	1F40	1F4-	2F61	l l e
ZAqn5Amb	191	1F- -	1F- S	1F47	1F4	7F 0	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 896Fh1	1- 0h9F96	1- 2hhF88	1- 69SF08	2F24	l l b
cn&Amon%	12171	SF0-	SF81	SF81	SF0h	9F68	l l b
crsenAq	0972	28F89	26F98	26F- 6	20F26	9FS6	l l b
BarAum	1- 971	- 0hF4S	- 88F28	- h0F24	- 88F- 1	2F- S	l l b
BarAum	1- 071	- 00F2S	- 86Fhh	- hhFS-	- 80F04	2F82	l l b
Ber%lAum	h71	1F81	1F86	1F08	1F82	2FS4	l l b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	2FS8	- F16	1F0S	2F- 2	- 2F60	l l b
RaOmAum	1S671	7SF91	1FSh	7SF- 2	SFSh	h84F69	l l b
RaOmAum	11171	1F90	1F44	1F90	1F9-	9FSS	l l b
RalqAum	4- 71	1819SF4-	189h- FS4	1h- - 0F60	186h- F01	- F21	l l b
RalqAum	4471	18880F86	1h6- 1FS2	1h4S6F- 2	1h- S8F4S	1Fh0	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22F- 0	22F64	21F2S	22FS0	- F46	l l b
Robal&	9h72	16F98	10FS0	16FS1	16F99	- F2S	l l b
Rol l er	6- 72	09F9h	06F41	01F22	04F41	- F09	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S9		G
y olmAum	16972				1S6		G
DnOAum	11971				1S9		G
DnOAum	11972				1S4		G
Don	9472	4- 2S4Fh-	4- Sh2FSS	4S611F06	42- S2FhS	- F46	l l b
Don	9672	424- 4F48	422S4F80	4S262F41	416- - Fh2	2F80	l l b
Don	9072	42- - 0F6h	42814F20	4S2- 0F00	410h6F90	- F28	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	89F44	89Fh8	88Fh1	86F00	2F19	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	82F4S	8- F9-	84F6S	8- F91	1F- 1	l l b
LeaO	2S871	84F99	89F90	80F14	89F09	1F92	l l b
LA&EAum	671				h-		G
MagnesAum	2472	6691F91	66S4F88	6- 69FS-	694SF40	2F- 9	l l b
Manganese	9972	1S21F61	1S1SF14	h90FS9	hh6F20	- F46	l l b
Mol%bOenum	h471	12F14	12F29	12F99	12F- 1	1F0-	l l b
Mol%bOenum	h971	1F66	1F04	1FB1	1F0-	4F- 0	l l b
Mol%bOenum	h671	2FB4	2FBS	2Fh-	2FB6	2F20	l l b
Mol%bOenum	h071	1F01	1FB9	1F06	1F00	- FB4	l l b
Mol%bOenum	h871	1F08	1F09	1FB1	1F08	1Fh4	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- - F29	- - F10	- 1F22	- 2F94	- F9-	l l b
PEosI Eorus	- 172	- 62SFh2	- 208F4h	- 496F- S	- 491FhS	4Fh6	l l b
Po&assAum	- h72	9- 01FS-	9- 4SF- 8	9S84Fh6	9269F46	2Fh8	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S2		G
pelenAum	8271	2FSh	1F92	1F9h	1F0-	18FS2	l l b
pelenAum	0072	49FB8	- 0F- 1	4- F66	42F28	1SF91	l l b
pelenAum	0872	hF1h	0Fh1	8F- 0	8F4h	0F60	l l b
pAAqon	2871	2- 6FB4	242Fh4	29SFS2	24- F26	2F01	l l b
pAver	1S071	SF- 0	SF- 0	SF- 6	SF- 0	SF- 6	l l b
pAver	1Sh71	SF- 4	SF- 4	SF- h	SF- 6	hF29	l l b
poOAum	2- 72	22SF4h	22- Fh8	2ShFS-	210FB-	- F9h	l l b
p&on&Aum	8671	101F40	166F04	16hF64	16hF28	1F41	l l b
p&on&Aum	8871	109F- 2	10- F68	108F4S	109FBS	1F- 6	l l b
pulfur	- 471	718SF91	7216F48	7168Fh9	7188F64		l l b
i erbAum	19h71				1S0		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 6	SF- 6	SF- 9	SF- 6	SF69	l l b
i EallAum	2S971	SF- -	SF- 9	SF- 9	SF- 4	- FB2	l l b
i An	11871	1F98	1F62	1F09	1F69	9F- S	l l b
i A&anAum	4071	116F28	12SF- h	124F6S	12SF42	- F46	l l b
UranAum	2- 871	- F29	- F- -	- F42	- F- -	2F98	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	9hFS1	98F49	99F8-	90F06	2Fh4	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S8		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 21F8h	- 21F92	- S2F04	- 19F- h	- F40	l l b
ZAqonAum	hS71	6F11	6FSh	6F- 9	6F18	2F- 9	l l b
ZAqonAum	h171	6F11	6FS2	6FS1	6FS9	SF86	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 6S4F14	19S61F84	1- 619F80	14Sh- Fh9	9Fh9	l l b
cn&Amon%	12171	SF82	SF08	SF08	SF8S	- F2-	l l b
crsenAq	0972	29FhS	- 1F49	29Fh1	20F09	11F9-	l l b
BarAum	1- 971	- h- F- 6	- 6hF26	- h2F96	- 89FS6	- F96	l l b
BarAum	1- 071	- hSF68	- 04F19	4SSF8-	- 88F96	- F40	l l b
Ber%lAum	h71	1F01	1F04	1F0S	1F02	1F11	l l b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	2FS9	2FS9	2F14	2FS8	2F49	l l b
RaOmAum	1S671	1F29	1F82	7SF42	SF88	1- 1F61	l l b
RaOmAum	11171	1F9S	1F46	1F48	1F48	1F- 6	l l b
RalqAum	4- 71	1821SF44	184S- F01	18102F90	18262F24	SF68	l l b
RalqAum	4471	1hS- 6F8S	18614F40	18689F09	1800hFSS	1F2S	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22FS4	24FS4	21F99	22F94	9F89	l l b
Robal&	9h72	16F84	18F02	16F61	10F- h	6F68	l l b
Rol l er	6- 72	02Fh1	81F42	0- F96	09Fh6	6F2-	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1Sh		G
y olmAum	16972				1S9		G
DnOAum	11971				1Sh		G
DnOAum	11972				1S-		G
Don	9472	4126- F- -	46S82F9-	418S0F44	4- S91F1S	6F1-	l l b
Don	9672	41826F18	49- 11F8S	41- h4F- h	42844F12	9FS1	l l b
Don	9072	4268- F49	46- - 2F1h	41614F91	4- 94- F- 8	9F68	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	86F96	89F96	80F60	86F6S	1F22	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	8- F4h	82F86	84F99	8- F6-	1FS2	I I b
LeaO	2S871	89F01	84F4-	89F0h	89F- 1	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	694- F88	02S8F6-	649hF2h	60- 0F20	6FSh	I I b
Manganese	9972	h89F81	1S8- F81	hhSFh-	1S2SF18	9F41	I I b
Mol%bOenum	h471	11F04	11F49	11Fh6	11F02	2F21	I I b
Mol%bOenum	h971	1Fh-	1F02	1F00	1F81	6F12	I I b
Mol%bOenum	h671	2F09	2F01	2F89	2F00	2F64	I I b
Mol%bOenum	h071	1F84	1F04	1F66	1F09	9F19	I I b
Mol%bOenum	h871	1F06	1F09	1F00	1F06	SF99	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2F46	- 6F- 8	- 2F60	- - F8-	6F92	I I b
PEosI Eorus	- 172	- 4h4F49	- 8- 4F44	- - 48F96	- 99hF19	0FS1	I I b
Po&assAum	- h72	91h0F8h	9084F64	9169F- 0	9- 82F6-	6F48	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1Sh		G
pqanOAum	4972				1S2		G
pelenAum	8271	1F48	1F9h	1F06	1F61	8F88	I I b
pelenAum	0072	- 9F- 8	48F6S	4SF8-	41F61	19Fh0	I I b
pelenAum	0872	6F82	hFh2	6F61	0F08	2- F8-	I I b
pAAqon	2871	2- 9F8-	241F6S	2- SF04	2- 6FS9	2F- S	I I b
pAver	1S071	SF- 0	SF- 4	SF- 0	SF- 6	9F- 2	I I b
pAver	1Sh71	SF41	SF- 0	SF41	SF4S	6F- 8	I I b
poOAum	2- 72	21- F2S	249F89	212FS9	22- F0S	8F98	I I b
p&ona&um	8671	16- F61	198F16	162F9S	161F4-	1F08	I I b
p&ona&um	8871	101FS4	166F20	10SF21	16hF10	1F91	I I b
pulfur	- 471	7928F- h	762SFhS	78- hF0h	766- FS-		I I b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 0	SF- 2	SF41	SF- 0	12F28	I I b
i EallAum	2S971	SF- 0	SF- 9	SF- 8	SF- 0	4F41	I I b
i An	11871	1F01	1F9h	1F6h	1F60	- F80	I I b
i A&anAum	4071	119F21	118F8S	116F61	116F80	1F99	I I b
UranAum	2- 871	- F24	- F2h	- F- 0	- F- S	2FS1	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	96F8-	6- F14	98F- 2	9hF4-	9F94	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 1- F0S	- - 8Fh4	- 12F89	- 21F8-	4F61	l l b
ZAqonAum	hS71	9F0h	9F8-	6FSS	9F80	1F89	l l b
ZAqonAum	h171	6F11	9FhS	6F1-	6FS9	2FS8	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARuminium	23O2	2944.- 4	2974.73	- 1- - .36	- O1O.J9	- .74	ppb
Antimony	12101	O.16	O.1J	O.17	O.16	3.J9	ppb
Arwenic	37O2	6.43	7.3O	6.- 6	6.1J	6.34	ppb
Bsrium	1- 701	34.63	3J.4J	3J.3J	33.- 1	2.96	ppb
Bsrium	1- 301	37.J4	39.39	J1.O6	3J.9O	- .47	ppb
BeryRRum	901	O- 6	O- 2	O.4O	O- 6	1O.J1	ppb
Biwmuth	2O901				1OJ		%
Biwmuth	2O9O2				1O4		%
Bromine	J101						cpw
Csdmium	1OJ01	O- 3	O.2-	O.23	O.29	24.46	ppb
Csdmium	1O601	04.7O	02.12	04.24	0- .62		ppb
Csdmium	11101	O.2J	O- 6	O- 6	O- -	14.- -	ppb
CsRium	4- 01	- 6O6.99	- 912.46	- J77.J2	- 391.36	4.29	ppb
CsRium	4401	- 6OJ.61	- J93.J9	- JJ1.O3	- 397.J6	4.2J	ppb
Csrbon	1201						cpw
Csrbon	12O2						cpw
ChRorine	- 701						cpw
ChRorine	- 7O2						cpw
Chromium	72O2	4.3J	4.67	4.J6	4.36	2.2J	ppb
CobsRR	79O2	- .6O	- .76	- .J3	- .63	4.79	ppb
Copper	6- O2	17.J-	17.J9	16.6J	16.14	2.94	ppb
Dywprowium	1760 1						cpw
Dywprowium	1760 2						cpw
Erbium	1640 1						cpw
Erbium	1640 2						cpw
GsdoRRnium	16O01						cpw
GsdoRRnium	16O02						cpw
HoRRnium	1670 1				1O9		%
HoRRnium	1670 2				1O4		%
Indium	1170 1				1OJ		%
Indium	1170 2				1O-		%
Iron	74O2	J726.2-	J- 1O.77	J9JJ.- -	J6OJ.- 3	4.O2	ppb
Iron	76O2	J9J- .32	J9OJ.24	9- 37.3O	9OJ9.22	2.36	ppb
Iron	73O2	J794.- 2	J2J- .41	J92J.- J	J6O2.O4	- .37	ppb
Krypton	J- 01						cpw
Lesd	2O601	13.- 6	1J.13	1J.3J	1J.1O	- .94	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.34	13.1-	13.94	13.23	- .76	ppb
Lesd	2OJ01	13.1-	13.6J	1J.2O	13.63	- .O4	ppb
Lithium	601				99		%
Msgnewium	24O2	1- 92.93	1- J6.79	17OJ.6J	1429.41	4.J1	ppb
Msngsnewe	77O2	216.O2	21- .O4	224.1O	213.32	2.6-	ppb
MoRybdenum	9401	2.61	2.62	2.62	2.62	O.26	ppb
MoRybdenum	9701	O.- 7	O.41	O.- 9	O.- J	J.11	ppb
MoRybdenum	9601	O.6O	O.77	O.6O	O.7J	4.41	ppb
MoRybdenum	9301	O.- 9	O.4J	O.4-	O.4-	1O.1-	ppb
MoRybdenum	9J01	O.- 9	O.- 9	O.4-	O.4O	4.32	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	6.39	3.O-	3.46	3.O9	4.33	ppb
8howphoruw	- 102	364.3O	314.O4	J31.94	3J- .76	1O.29	ppb
8otswwium	- 902	1161.42	1OJ6.22	1222.O4	1176.76	7.JJ	ppb
Rhodium	1O- 01				1OJ		%
Rhodium	1O- 02				1O4		%
Scsndium	4701				1O9		%
Scsndium	4702				1O1		%
SeRenium	J201	O.16	O.O3	O.O7	O.1O	73.42	ppb
SeRenium	3302	4.96	3.3J	6.- -	6.- 6	22.19	ppb
SeRenium	3J02	1.- 6	2.13	- .14	2.22	4O.O6	ppb
SiRcon	2J01	43.1J	49.43	49.J3	4J.J4	2.93	ppb
SiRver	1O301	O.O6	O.OJ	O.O3	O.O3	12.66	ppb
SiRver	1O901	O.OJ	O.O3	O.O6	O.O3	17.19	ppb
Sodium	2- 02	36.16	6J.43	J7.3-	36.39	11.26	ppb
Strontium	J601	- 7.- 9	- 6.- 3	- 6.73	- 6.11	1.34	ppb
Strontium	JJ01	- 4.22	- 7.JJ	- 7.2J	- 7.1-	2.- 9	ppb
SuRfur	- 401	021- 9.1-	01462.74	01391.J-	01393.J-		ppb
Terbium	17901				11O		%
Terbium	17902				1O4		%
ThsRium	2O- 01	O.17	O.14	O.1-	O.14	6.49	ppb
ThsRium	2O701	O.14	O.1-	O.14	O.14	7.JO	ppb
Tin	11J01	O.- 1	O.- 2	O.- 4	O.- 2	7.J2	ppb
Titsnium	4301	2- .66	27.- -	26.O1	27.OO	4.J-	ppb
Ursnium	2- J01	O.67	O.66	O.66	O.66	1.OJ	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	12.- 4	12.2O	1- .1O	12.77	- .J9	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1OJ		%
Yttrium	J90l2				1O6		%
Zinc	660l2	63.- 1	67.- 4	31.76	6J.O3	4.63	ppb
Zirconium	9O0l	1.2O	1.26	1.- O	1.27	- .67	ppb
Zirconium	910l	1.11	1.- -	1.41	1.2J	12.O9	ppb

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14401.P2	14- - 4.Sy	14y14.0P	14h0- .h6	2.SP	ppm
Aotiu Oo%	12171	1P.6h	24.P-	1P.- S	2S.hy	10.Ph	ppm
Aeaboic	0h72	- 4.S-	- 4.Sh	- h.10	- 4.42	1.Py	ppm
BJeiNu	1- h71	0P- .PP	1S6h.2P	006.- P	P0h.1P	1P.P2	ppm
BJeiNu	1- 071	P- 1.26	1Syy.01	P- S.6P	y2S.hh	16.Ph	ppm
Bbe%wiNu	y71	11.0S	14.yh	11.P1	12.P2	14.41	ppm
Biau NtE	2Sy71				1S1		G
Biau NtE	2Sy72				1S0		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1S.SS	12.yS	1S.S1	1S.y0	1h.2h	ppm
UJdu iNu	1S671	P.h-	12.24	0.PP	y.hh	24.61	ppm
UJdu iNu	11171	11.21	1h.42	11.16	12.6S	1y.42	ppm
UJwiNu	4- 71	1Phy2.P4	2h1hP.P0	1y6S4.S2	2111P.hP	16.04	ppm
UJwiNu	4471	1yh26.h2	2hP00.P4	1yP4P.6-	210h1.SS	16.4h	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	61.PS	62.2S	6h.SS	6- .SS	2.00	ppm
UOmJwv	hy72	11P.- 1	11P.- S	12- .04	12S.11	2.61	ppm
UOppbe	6- 72	126.hh	12h.41	1- S.P4	120.6S	2.2h	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S2		G
MOw iNu	16h72				11S		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S0		G
IeOo	h472	4261h.hS	4- - - P.12	4- yP4.64	4- - 12.0h	1.hP	ppm
IeOo	h672	41Py0.yP	4- S- S.- h	4- y4y.12	42yhy.1h	2.- y	ppm
IeOo	h072	42S- h.44	42P24.P1	440- 2.4y	4- 1y0.hP	- .21	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	yh.16	12S.10	y4.yS	1S- .41	14.S-	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	y1.hh	116.1-	y2.S2	yy.yS	14.S0	ppm
LbJd	2SP71	y- .04	110.y-	y- .2S	1S1.62	1- .yS	ppm
LitEiNu	671				yh		G
g JvobaiNu	2472	664P.0S	60- 6.- 2	606y.0S	601P.24	S.y-	ppm
g JovJobab	hh72	11S4.S2	1Syh.4P	1122.P4	11S0.4h	1.26	ppm
g O%mdboNu	y471	11.42	14.0S	12.16	12.06	1- .4P	ppm
g O%mdboNu	yh71	1.01	2.26	1.6y	1.Py	10.- 4	ppm
g O%mdboNu	y671	2.0P	- .- P	2.0S	2.y6	12.40	ppm
g O%mdboNu	y071	1.hy	2.14	1.6S	1.0P	10.h2	ppm
g O%mdboNu	yP71	1.6P	2.11	1.6-	1.P1	14.0h	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	142.0S	142.0-	146.22	14- .PP	1.41	ppm
I EOapEOeNa	- 172	- h4h.yy	- h10.S2	- 0Sh.y-	- hPy.64	2.P-	ppm
I OtJaaiNu	- y72	h- 66.04	h- 6y.S6	hh60.2S	h4- 4.- -	2.12	ppm
n EOdiNu	1S- 71				yy		G
n EOdiNu	1S- 72				1SP		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S6		G
r bwboiNu	P271	1y.h0	2h.- 0	1y.yS	21.61	1h.S0	ppm
r bwboiNu	0072	h0.SS	4y.S1	6y.h6	hP.h2	10.0S	ppm
r bwboiNu	0P72	2h.14	20.- 2	20.yP	26.P1	h.hh	ppm
r iwcOo	2P71	26S.2y	- - 1.41	262.21	2P4.64	14.2-	ppm
r iwRbe	1S071	P.hh	11.61	P.66	y.61	1P.S0	ppm
r iwRbe	1Sy71	P.hh	11.- 0	P.h-	y.4P	10.21	ppm
r OdiNu	2- 72	26S.0h	261.26	26y.- 2	26- .0P	1.P2	ppm
r teOotiNu	P671	164.- 1	221.1h	101.y2	1Ph.0y	16.61	ppm
r teOotiNu	PP71	101.S4	22P.22	1PS.y6	1y- .41	1h.PS	ppm
r NwNe	- 471	71S62.1y	224S.4h	702- .Py	1h1.46	11yy.6P	ppm
TbemiNu	1hy71				1S2		G
TbemiNu	1hy72				1SP		G
TEJwiNu	2S- 71	P.P-	11.16	P.P4	y.61	1- .y6	ppm
TEJwiNu	2Sh71	P.P0	11.1S	P.y4	y.64	1- .1P	ppm
Tio	11P71	1.y0	2.P6	2.S1	2.2P	21.P2	ppm
TitJoiNu	4071	112.hy	140.16	114.- y	124.01	1h.61	ppm
F eJoiNu	2- P71	- .44	4.- 2	- .44	- .0-	1- .hh	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	161.SP	162.- 1	160.S1	16- .40	1.y1	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1S0		G
YtteiNu	Py72				11y		G
Zioc	6672	42y.- y	42h.y2	4- 6.S0	4- S.46	1.2S	ppm
ZiecOoiNu	yS71	h.06	0.0S	6.1S	6.h2	1h.Ph	ppm
ZiecOoiNu	y171	h.Ph	0.4P	h.y6	6.4-	14.10	ppm

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	16849F- S	148h0F21	16289F92	1h998F81	6F42	I I b
c n&Amon%	12171	SFh-	SF49	SF46	SF49	0F- S	I I b
c rsenAq	0h72	- 1F20	29F29	29Fh1	- SFS-	- F61	I I b
BarAum	1- h71	6S6F86	h22F4S	hS4F89	h44F02	1SFS1	I I b
BarAum	1- 071	618F64	h28F6h	h14F88	hh4FS6	1SF10	I I b
Ber%lAum	971	2F22	2FS4	1F9-	2FS6	0F12	I I b
BAsmu&E	2S971				1S-		G
BAsmu&E	2S972				112		G
BromAne	8171						ql s
RaOmAum	1S871	1F62	1Fh1	1F0-	1F62	6F0h	I I b
RaOmAum	1S671	71F8h	1F48	71F28	7SFhh		I I b
RaOmAum	11171	1F69	1F- 2	1F2-	1F41	10F19	I I b
RalqAum	4- 71	220- hF28	19494FS9	19140F16	2S4h8F84	9F60	I I b
RalqAum	4471	2- 662F0h	2S24- F12	19h94F18	21166F68	1SF- -	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	- SF98	20F69	29Fh8	29F42	hF62	I I b
Robal&	h972	2- F9-	21FSh	2- F41	22F09	6F04	I I b
RoI I er	6- 72	68Fhh	61F20	60FS-	6hF61	hF8h	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S4		G
y olmAum	16h72				11-		G
DnOAum	11h71				1S2		G
DnOAum	11h72				11S		G
Don	h472	h46- 8F0-	48904F84	h261hF- 2	h2S06F- S	hFh1	I I b
Don	h672	h- 6- 1F88	48488F48	h2S90F06	h14S6FS4	hF14	I I b
Don	h072	hh641F11	4096- F08	h2860F2h	h21h0F- 8	0F4h	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S4F0-	89FSh	88F8-	94F2S	9F68	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	98F2-	84F92	8hF11	89F42	8Fh-	I I b
LeaO	2S871	1S1Fh1	80F22	86F88	91F80	9FS9	I I b
LA&EAum	671				96		G
MagnesAum	2472	0h88F96	6684F66	0- 04F9h	0216F19	6Fhh	I I b
Manganese	hh72	1112F99	1SShF- 9	1S6SF22	1Sh9Fh-	hFS8	I I b
Mol%bOenum	9471	1SF82	8F84	9FhS	9F02	1SF- 8	I I b
Mol%bOenum	9h71	2F12	1F01	1F08	1F80	11F80	I I b
Mol%bOenum	9671	2F99	2Fh2	2F6-	2F01	8F96	I I b
Mol%bOenum	9071	2F2h	1F6S	1F00	1F80	10F92	I I b
Mol%bOenum	9871	2FS8	1F06	1F09	1F88	9F48	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	49F00	4- F99	40F04	40F10	6F22	I I b
PEosI Eorus	- 172	- - 19FSS	2886F89	- 194F4-	- 1- - F44	0F1S	I I b
Po&assAum	- 972	4SShF48	- h- - F42	- 862F80	- 8SSFh9	6F- 0	I I b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				112		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S9		G
pelenAum	8271	2F40	1F- 6	1F01	1F84	- SF0h	I I b
pelenAum	0072	4SF- 2	4- Fh4	2hF44	- 6F4-	26FhS	I I b
pelenAum	0872	1SF10	9F- 1	8F18	9F22	1SF84	I I b
pAAqon	2871	- 28F4-	282F80	28- F- -	298F21	8F08	I I b
pAver	1S071	SF40	SF40	SF4S	SF4h	8F69	I I b
pAver	1S971	SFh1	SF41	SF4h	SF4h	1SF08	I I b
poOAum	2- 72	42SF61	- h6F80	4S2F11	- 9- F2S	8F- 4	I I b
p&on&Aum	8671	212FSh	182F81	18hF61	19- F49	8F- 4	I I b
p&on&Aum	8871	21- F10	19SFh0	19SF19	190F98	6F6h	I I b
pulfur	- 471	7100Fh2	71h99F0-	716h8F18	7114hF14		I I b
i erbAum	1h971				1S2		G
i erbAum	1h972				111		G
i EallAum	2S- 71	SFh2	SF- 9	SF4h	SF4h	14F08	I I b
i EallAum	2Sh71	SFhS	SF4-	SF4h	SF46	8F- 8	I I b
i An	11871	1F88	1F62	1Fh0	1F69	9Fhh	I I b
i A&anAum	4071	94F88	82FS9	8SFS-	8hF60	9F- 9	I I b
UranAum	2- 871	4F8h	4F21	4F24	4F4-	8FS6	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	h172	0- F1h	6hF92	01FS4	0SFS-	hF- 1	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				1S9		G
Y&&Aum	8972				122		G
ZAnq	6672	29SFS6	2h4F61	20- Fh2	202F0-	6FhS	l l b
ZAqonAum	9S71	hF19	4Fh6	4Fhh	4F00	0F01	l l b
ZAqonAum	9171	hF- 6	4F46	4F- -	4F02	11F9-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:1492209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJ:v onqU	v onqCpt	RnA&w
cRmAAm	2072	146 SU0J	14246U 1	1441JUS2	144- JU44	1U41	l l b
cn&mon%	12171	SUJ 1	SU0	SU05	SU0J	- UJ 1	l l b
crwenAq	0 72	4SU66	- JUJ 1	- JU64	- 5U2S	- U2-	l l b
BsrAm	1- 71	- J6UJ0	- 54U6	- J5U25	- 5SU20	1US2	l l b
BsrAm	1- 071	- 51U2	- 5JUS0	- 54UJ-	- 54U02	SUJ6	l l b
Ber%RAm	571	2U1S	2U1S	2US5	2U1S	SUJ 2	l l b
BAmu&E	2S571				1SJ		G
BAmu&E	2S572				1S5		G
BromAe	J171						ql w
v sOmAm	1SJ71	1UJ4	1U50	1UJ0	1UJ5	- U45	l l b
v sOmAm	1S671	2US5	1U44	7SU0-	SU5-	1 JUJ	l l b
v sOmAm	11171	1U6	1U-	1U	1UJ	4U15	l l b
v sRqAm	4- 71	4120 U40	41 2SU14	410 1U16	41 1 U5	SU0	l l b
v sRqAm	4471	42J15U41	4242- UJ	421S- USJ	4244JU62	SUJ	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAe	- 71						ql w
v ERrAe	- 72						ql w
v EromAm	272	- - U14	- 2U22	- - U1	- 2UJ4	1U62	l l b
v obsR&	572	2SU0	2SU1J	2SUJ	2SU4-	1U44	l l b
v ol l er	6- 72	JUSS	0U1S	0U62	0UJ	SU05	l l b
t %wl rowAm	1 671						ql w
t %wl rowAm	1 672						ql w
. rbAm	16471						ql w
. rbAm	16472						ql w
HsOoRAm	16S71						ql w
HsOoRAm	16S72						ql w
hoRmAm	16 71				1S5		G
hoRmAm	16 72				11S		G
DrOAm	11 71				1S		G
DrOAm	11 72				1S0		G
Don	472	4- 20- US	425- U05	4- 650UJ	4- - S2US0	SUJJ	l l b
Don	672	4- S20US6	42 55U-	425- US1	42J - UJ0	SU-	l l b
Don	072	44S22U6	4- 6 4UJ0	42J- 4U60	4- S- U5S	1U4S	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	6JU4	65US1	6JU11	6JU2	SU66	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:1492209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	6 U05	6 U64	64U6-	6 U6	SU56	I I b
LesO	2SJ71	60U1J	66U52	66U54	60US1	SU22	I I b
LA&EAum	671				55		G
y sMnewAum	2472	12 JJU24	12126U21	12154U64	12- S- US-	2US-	I I b
y snMsnewe	72	21- 6U44	2S 5UJ	216 U50	212SU0	2U J	I I b
y oP%bOenum	5471	0UJ	0U56	JU26	JUS2	2U65	I I b
y oP%bOenum	5 71	- U52	- U5	4U2	4US4	4U46	I I b
y oP%bOenum	5671	4U45	4U-4	4U4	4U4-	1U01	I I b
y oP%bOenum	5071	4U16	4U26	4US	4U1	2U2	I I b
y oP%bOenum	5J71	- U52	- UJJ	4U15	4USS	4U2S	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	44US6	4- U4J	4- U60	4- U0-	SU6J	I I b
8 EowI Eoruw	- 172	- 515U50	- 04JU-1	- 5S0U0	- J JU6J	2U4J	I I b
8 o&swwAum	- 572	J- 5U0J	665U65	5- 5U01	J16U4S	2U-	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S5		G
pqsnOAum	4 71				1S6		G
pqsnOAum	4 72				1S6		G
pe?enAum	J271	2U21	2US1	2U10	2U1-	US6	I I b
pe?enAum	0072	44UJ0	4U24	40U62	4JU51	5UJ6	I I b
pe?enAum	0J72	1SU-S	JU5S	5U-J	5U2	0U4J	I I b
pA?qon	2J71	2 6US4	2 U6	261U2	2 0U61	1U2-	I I b
pA?ger	1S071	SU4J	SU40	SU45	SU4J	2U50	I I b
pA?ger	1S571	SUS	SU1	SU46	SU45	U45	I I b
poOAum	2- 72	- 6JU55	- 4U4S	- 6SU	- 61U-1	2US-	I I b
p&ona&Aum	J671	1J2U56	1J1U-	1J5U05	1J4U0S	2U4-	I I b
p&ona&Aum	JJ71	151U25	1J6UJ6	15SU22	1J5U46	1U22	I I b
pu?Pur	- 471	2454U42	26- - U2	2J1 U62	2640UJ	6USJ	I I b
i erbAum	1 571				1S5		G
i erbAum	1 572				111		G
i EsPAum	2S- 71	SU4	SU4	SU46	SU4	1U2J	I I b
i EsPAum	2S 71	SU40	SU44	SU4	SU4	- US	I I b
i A	11J71	1SU60	1SU6-	1SU04	1SU6J	SU	I I b
i A&snAum	4071	141US	141UJ1	144US0	142U46	SU55	I I b
RrsnAum	2- J71	U6	U4-	U40	U2	2U1-	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
VsnsOAum	172	0SU66	65U-J	0SUSJ	0SUS4	SU52	I I b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				11		G
Y&&Aum	J572				121		G
ZAnq	6672	- 02U2-	- 60U2	- 04U52	- 01U40	1US	I I b
ZAqonAum	5S71	2U	2U -	2U06	2U62	4U54	I I b
ZAqonAum	5171	2U0-	2U0S	2U6J	2U01	SU51	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	yy16.S1	y640.11	yhP1.0y	y014.y0	1.P2	ppm
Aotiu Oo%	12171	S.PS	S.06	S.0y	S.0P	2.0P	ppm
Aeaboic	0h72	2y.S-	2P.S6	20.1P	2P.Sy	- .- 1	ppm
BJeiNu	1- h71	204.- P	24y.- 1	240.PP	2h0.1y	h.PS	ppm
BJeiNu	1- 071	20y.1P	24y.14	2hS.yh	2hy.06	6.4P	ppm
Bbe%wiNu	y71	1.61	1.hh	1.h0	1.hP	1.04	ppm
Biau NtE	2Sy71				1S6		G
Biau NtE	2Sy72				1SP		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6h	1.y1	1.y1	1.P2	P.2h	ppm
UJdu iNu	1S671	S.PP	S.2-	1.2-	S.0P	64.61	ppm
UJdu iNu	11171	1.y1	1.60	1.hP	1.02	1S.S6	ppm
UJwiNu	4- 71	4214h.Sy	- P624.61	- PhS1.S0	- y0h6.y2	h.2S	ppm
UJwiNu	4471	42yS- .y1	- y2- 0.yy	4SPhy.P6	41SSS.hy	4.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	22.11	21.h6	21.Sh	21.h0	2.44	ppm
UOmJw	hy72	12.00	12.S1	12.1-	12.- S	- .- -	ppm
UOppbe	6- 72	- 6.6h	- h.yP	- h.y-	- 6.1y	1.1S	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sy		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				1Sh		G
IeOo	h472	- 1SPS.2-	- 11Py.4-	- Sh16.h0	- Sy2P.04	1.10	ppm
IeOo	h672	- SPhP.- 4	- SS6S.yS	2yy40.y4	- S2Py.S6	1.64	ppm
IeOo	h072	2PyyS.6-	2P2- P.11	2P2Ph.S6	2PhS4.6S	1.4P	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	44.62	41.- 4	41.S6	42.- 4	4.6P	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	42.0h	- P.hh	- y.Py	4S.4S	h.- 1	ppm
LbJd	2SP71	4- .4h	- y.yS	4S.yy	41.4h	4.- y	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	121P4.44	12SS- .21	11y2y.- y	12S- y.S1	1.Sy	ppm
g JovJobab	hh72	1- h- .SP	1- 22.44	1- 1S.PP	1- 2P.PS	1.64	ppm
g O%mdboNu	y471	0.62	0.20	0.2S	0.- 6	- .1-	ppm
g O%mdboNu	yh71	4.0-	4.h2	4.- 6	4.h4	4.S-	ppm
g O%mdboNu	y671	4.yP	4.6y	4.0h	4.P1	- .11	ppm
g O%mdboNu	y071	4.y1	4.0y	4.hh	4.0h	- .P6	ppm
g O%mdboNu	yP71	4.0S	4.h1	4.42	4.hh	- .Sy	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	2y.4P	2P.SP	2P.1y	2P.hy	2.01	ppm
I EOapEOeNa	- 172	2y6y.46	26S0.S4	2PP- .0P	2P2S.Sy	6.02	ppm
I OtJaaiNu	- y72	- 6P2.h-	- h- - .P1	- h- P.y6	- hPh.1S	2.- h	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1Sh		G
r cJodiNu	4h71				1S6		G
r cJodiNu	4h72				1S2		G
r bwboiNu	P271	1.P4	1.P2	1.hP	1.04	P.1y	ppm
r bwboiNu	0072	2P.h-	- 4.hh	- 2.hy	- 1.Py	y.62	ppm
r bwboiNu	0P72	1S.S-	P.hy	0.y6	P.P6	11.y6	ppm
r iwcOo	2P71	1PP.SS	106.S6	104.yh	10y.60	4.S-	ppm
r iwRbe	1S071	S.41	S.42	S.4-	S.42	2.4y	ppm
r iwRbe	1Sy71	S.46	S.- P	S.42	S.42	y.yS	ppm
r OdiNu	2- 72	- P1.y4	- 60.P1	- 6S.y4	- 0S.2-	2.Py	ppm
r teOotiNu	P671	12y.1-	11y.0P	11P.01	122.h4	4.6P	ppm
r teOotiNu	PP71	1- 4.hS	124.2P	126.h0	12P.4h	4.10	ppm
r NwNe	- 471	1S06.- 6	20h.41	214.1S	h21.y6	y2.10	ppm
TbemiNu	1hy71				1S6		G
TbemiNu	1hy72				1Sy		G
TEJwiNu	2S- 71	S.- 6	S.2y	S.2y	S.- 1	12.- -	ppm
TEJwiNu	2Sh71	S.- 2	S.- 4	S.- 2	S.- -	- .4S	ppm
Tio	11P71	1.y2	1.6-	1.P1	1.0y	P.2S	ppm
TitJoiNu	4071	124.21	114.21	116.- -	11P.2h	4.46	ppm
FeJoiNu	2- P71	- .P-	- .hS	- .h6	- .6-	4.Py	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	4h.21	44.10	44.4h	44.61	1.21	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				111		G
YtteiNu	Py72				116		G
Zioc	6672	- 0- .1y	- 02.- S	- 0S.2h	- 01.y2	S.41	ppm
ZieoOoiNu	yS71	2.14	2.S4	2.SP	2.SP	2.4-	ppm
ZieoOoiNu	y171	2.2S	1.P6	2.S-	2.S-	P.4-	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14yy- .60	1h1- P.2S	1h14- .Sy	1hSy1.6h	S.h6	ppm
Aotiu Oo%	12171	1.4S	1.2P	1.2S	1.2y	0.y6	ppm
Aeaboic	0h72	60.P4	6y.40	6P.0S	6P.60	1.1y	ppm
BJeiNu	1- h71	4Py.40	422.- 1	4S1.10	4- 0.6h	1S.h4	ppm
BJeiNu	1- 071	4y0.y0	41P.64	4S6.14	44S.y2	11.- S	ppm
Bbe%wiNu	y71	2.- S	2.SS	1.yP	2.1S	P.6-	ppm
Biau NtE	2Sy71				1S4		G
Biau NtE	2Sy72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.64	2.S2	2.4h	2.- 0	1- .- y	ppm
UJdu iNu	1S671	S.- y	1.1h	S.0-	S.06	hS.S2	ppm
UJdu iNu	11171	- .1-	2.0-	2.- y	2.0h	1- .4-	ppm
UJwiNu	4- 71	106- y.- -	14h0h.2y	1- y6P.6y	1h- y4.4-	12.0P	ppm
UJwiNu	4471	1P21h.hP	14044.1P	14- 6S.02	1h00- .hS	1- .46	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOaiob	- h71						cpa
UEwOaiob	- h72						cpa
UEeOu iNu	h272	21.y1	22.S-	21.01	21.PP	S.0-	ppm
UOmJw	hy72	1- .- 4	1- .P2	1- .- -	1- .hS	2.S6	ppm
UOppbe	6- 72	40.00	4P.1-	4P.1P	4P.S2	S.40	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5 emiNu	16471						cpa
5 emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S4		G
MOw iNu	16h72				1S0		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S-		G
IeOo	h472	- hS1y.hh	- h61h.2h	- h1- 4.- y	- h2h6.4S	S.yS	ppm
IeOo	h672	- 460S.6P	- hSy4.y0	- - y1S.P0	- 4hhP.P4	1.04	ppm
IeOo	h072	- 21h6.yP	- 266h.0P	- 2- 1h.- S	- 2- 0y.- h	S.PS	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21- .P1	1P6.- 0	106.P-	1y2.- 4	y.yP	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	2S- .00	10- .0y	10- .h4	1P- .0S	y.46	ppm
LbJd	2SP71	21y.h1	1P4.Py	1P1.yh	1yh.4h	1S.6y	ppm
LitEiNu	671				y0		G
g JvobaiNu	2472	hy26.Ph	hy10.0h	hPS- .6S	hPP2.0-	1.10	ppm
g JovJobab	hh72	12P- .h-	12y2.1y	1204.SS	12P- .24	S.01	ppm
g O%mdboNu	y471	y.SS	0.60	6.06	0.P1	14.46	ppm
g O%mdboNu	yh71	- .y0	- .1S	- .S1	- .- 6	1h.04	ppm
g O%mdboNu	y671	4.4S	- .4h	- .- 6	- .04	1h.- 6	ppm
g O%mdboNu	y071	- .h6	- .- y	- .S1	- .- 2	P.h1	ppm
g O%mdboNu	yP71	- .01	- .24	- .1-	- .- 6	y.S6	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.h2	20.6-	20.2P	20.4P	S.60	ppm
I EOapEOeNa	- 172	266h.4S	2P1S.hP	26- 6.h1	20S4.16	- .4h	ppm
I OtJaaiNu	- y72	hy41.6-	6S2P.1y	6S4S.61	6SS- .4P	S.yS	ppm
n EOdiNu	1S- 71				1S1		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S-		G
r bwboiNu	P271	1.46	S.01	1.14	1.1S	- 4.20	ppm
r bwboiNu	0072	46.4y	40.4-	44.4-	46.12	- .- -	ppm
r bwboiNu	0P72	P.20	6.00	0.2S	0.41	1S.46	ppm
r iwcOo	2P71	2Ph.4-	2- 1.00	22S.h2	24h.y1	14.11	ppm
r iwRbe	1S071	1.- 6	1.14	1.12	1.21	11.S-	ppm
r iwRbe	1Sy71	1.- 4	1.1y	1.12	1.21	P.yy	ppm
r OdiNu	2- 72	220.y1	2- 2.y-	2- 2.01	2- 1.1P	1.2-	ppm
r teOotiNu	P671	120.P0	1S6.24	1S1.- 0	111.P-	12.62	ppm
r teOotiNu	PP71	1- 1.62	11S.hS	1Sh.41	11h.Ph	12.SS	ppm
r NwNe	- 471	12hh.40	71S02.14	71h10.PS	7444.P2		ppm
TbemiNu	1hy71				1Sh		G
TbemiNu	1hy72				1S6		G
TEJwiNu	2S- 71	S.h2	S.40	S.40	S.4y	6.S2	ppm
TEJwiNu	2Sh71	S.h-	S.46	S.46	S.4P	P.26	ppm
Tio	11P71	0.2y	6.- -	6.Sy	6.h0	y.62	ppm
TitJoiNu	4071	221.41	1P- .60	104.22	1y- .1S	12.y-	ppm
FeJoiNu	2- P71	- .64	- .16	- .Sy	- .- S	y.2S	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	62.h0	6- .Sy	62.- h	62.60	S.61	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				116		G
Zioc	6672	- hy.SP	- 6h.02	- 6h.- P	- 6- .- y	1.S-	ppm
ZiecOoiNu	yS71	- .2h	2.0P	2.hP	2.P0	12.Sh	ppm
ZiecOoiNu	y171	- .2P	2.60	2.02	2.Py	11.0y	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9Ja	&wTwFd8 :u wb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMb:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1S602U2-	1SJ0 U6-	1S606U0S	1S642UJ2	SUJ2	DDe
q5Tb n5%	12171	SU0	SUa2	SU 0	SU J	UJ1	DDe
qpl r 5cd	0J72	J U6	JaU2S	J U06	J Ua4	SUJa	DDe
Bwpcmb	1- J71	206UJ-	2 2U26	2 6USS6	2 1UJJ	1U04	DDe
Bwpcmb	1- 071	20- USS1	2 JU0J	2 1U 1	2 SU1a	2UJ-	DDe
Br p%8cmb	a71	1UJa	1U4-	1U4J	1U4-	2U2a	DDe
Bdb mTE	2Sa71				1S		G
Bdb mTE	2Sa72				1S6		G
Bpmb d5r	171						dDl
v wob cmb	1S 71	2USS0	2USS1	2USS6	2USSJ	1U62	DDe
v wob cmb	1S671	SU2S	7SU20	1U0-	SUJJ	1 aUSS0	DDe
v wob cmb	11171	1Ua	2US-	1Uaa	2USSS	1U22	DDe
v w8dcmb	4- 71	aJ- 6UJJ	a466U 1	a6 JUSS0	aJ62U 1	1U10	DDe
v w8dcmb	4471	1SSS- U4	aa1SUa2	1S2- UJ-	1SSJSUa	1U6	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- J71						dDl
v E8hpd5r	- J72						dDl
v Epmb cmb	J272	16UJ4	16UJ-	16UJS	16UJ2	SU14	DDe
v new8T	Ja72	aUaS	aU40	aU6a	aU6a	2U2S	DDe
v nDDr p	6- 72	- aU -	- aUaa	- aUa2	- aUa1	SU1a	DDe
&%Dpnl cmb	1J671						dDl
&%Dpnl cmb	1J672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16J71				1Sa		G
h n8b cmb	16J72				1S0		G
t5ocmb	11J71				1S		G
t5ocmb	11J72				1S4		G
tpn5	J472	26- 44U 6	26Sa1UJ0	26J0SU41	26- - JUJJ	SUa1	DDe
tpn5	J672	26- 22U4S	2JJ6aUSS	26- - - U2J	26S04U	1U6	DDe
tpn5	J072	242 JU16	24S1JUJ2	24- SU24	24226Ua1	SU0	DDe
Kp%DTn5	- 71						dDl
Lr wo	2S671	1J6U61	1JaU26	162U14	1JaUJ4	1U04	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149-J9Ja	&wTwFd8 :uwb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S071	1J- U0	1J- U11	1J6UJ	1J4UJ2	1U1	DDe
Lr wo	2S 71	16- UJS	16JUa1	166UJ4	16JU2J	SUa-	DDe
LdEcmb	671				1SS		G
y wW5r l cmb	2472	422SU2	41J- UJ	41 1UJS	41 JU14	SUJS	DDe
y w5Mw5r l r	JJ72	4SUaa	2aU01	4SU2S	- 6Ua6	SU0J	DDe
y n8%eor 5mb	a471	4U44	4UJ0	4UJ4	4UJ2	1UJ2	DDe
y n8%eor 5mb	aJ71	1Ua6	2USS	1Ua	1Ua	SUaa	DDe
y n8%eor 5mb	a671	2UJ	2UJ2	2U41	2UJ6	2US-	DDe
y n8%eor 5mb	a071	2U10	2U14	2USJ	2U12	- US-	DDe
y n8%eor 5mb	a 71	2USJ	1Ua6	2US	2US-	- US	DDe
u r no%b cmb	1JS71						dDl
u r no%b cmb	1JS72						dDl
u cdkr 8	6S72	21U1J	2SUJ2	1aUaS	2SU62	- U1J	DDe
NEnl DEnpm	- 172	1J4aUJS	1641Ua2	1J11U4S	1J60U61	4U2	DDe
NnTwl cmb	- a72	- J1- UJ	- 4aSU22	- 410UaS	- 40- U2	1U4-	DDe
CEnocmb	1S- 71				1S		G
CEnocmb	1S- 72				1S6		G
l dw5ocmb	4J71				1Sa		G
l dw5ocmb	4J72				1S2		G
l r 8 5cmb	271	1US1	SU-	SUJ6	SUJS	2 U1S	DDe
l r 8 5cmb	0072	41UJa	4SUSS	64U0S	4 U06	2 UJJ	DDe
l r 8 5cmb	0 72	6USJ	aU6J	aU12	U20	2- U4	DDe
l 8dn5	2 71	21SU1	2SaUa4	21- U04	211U2a	1US1	DDe
l 8gr p	1S071	SU0J	SU6a	SU06	SU04	JUS	DDe
l 8gr p	1Sa71	SU0-	SU02	SU02	SU02	SU1	DDe
l nocmb	2- 72	2- 2UJ2	2- 0U6J	241U61	2- 0U1a	1Ua6	DDe
l Tpm5Tcmb	671	6- UJS	64UJa	6JUa0	64UJJ	2US	DDe
l Tpm5Tcmb	71	64U6S	64USa	64UaS	64UJ-	SU6-	DDe
l m8mp	- 471	72Sa- U01	72- 6- UJ0	72S- U12	7216JU1-		DDe
Ar pecmb	1Ja71				1Sa		G
Ar pecmb	1Ja72				1S0		G
AEw8cmb	2S- 71	SUJ-	SUJ4	SUJJ	SUJ4	- U60	DDe
AEw8cmb	2SJ71	SUJ4	SUJJ	SUJ	SUJ6	JUJ-	DDe
Ac5	11 71	- UJS	- UJ	- UJ	- UJJ	1UJ6	DDe
AcTw5cmb	4071	121USS	116UJ-	12SUJS	11aU44	2U12	DDe
Rpw5cmb	2- 71	2USS2	2USJ	2US6	2USS4	1U22	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9Ja	&wTwFd8 :u wb r :9	S42q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J172	4- U1	42Ua2	4- U46	4- U1	SU62	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	a71				11-		G
YTTpcmb	a72				11J		G
Zc5d	6672	24 U0S	240U6a	24aUSJ	24 U4	SU2	DDe
Zqpdn5cmb	aS71	1UJ0	1U S	1U0J	1U01	0U12	DDe
Zqpdn5cmb	a171	1U0S	1U6S	1U0J	1U6	4UJa	DDe

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LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1- 660UJ1	1- 6 2U-6	1- 0J1U42	1- 01- UJ6	SU44	DDe
q5Tb n5%	12171	SU-1	SU-1	SU-6	SU-	JUSS	DDe
qpl r 5cd	0a72	12U14	12U11	11UaS	11U2	- US4	DDe
Bwpcmb	1- a71	- 21U0	- 2SU12	- 20UaS	- 2- U2S	1U1	DDe
Bwpcmb	1- 071	- 1JU2J	- 2- U2-	- 2aU-6	- 22U2	1U1-	DDe
Br p%8cmb	71	1UJ	2USa	1U J	1U0	4U14	DDe
Bdl b mTE	2S 71				1SJ		G
Bdl b mTE	2S 72				1S4		G
Bpmb d5r	J171						dDl
v wob cmb	1SJ71	1UaS	SU4	1US6	1U10	2aU4S	DDe
v wob cmb	1S671	7SU26	72U21	71U0-	71U4S		DDe
v wob cmb	11171	1US1	SUJJ	1USS	SU6	0Ua2	DDe
v w8dcmb	4- 71	144SaUa-	1461 U20	14641U0	14aaaUa	SUS	DDe
v w8dcmb	4471	14 62U44	1a1- 0U41	14 a0U10	1aS1 US1	SU6J	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- a71						dDl
v E8hpd5r	- a72						dDl
v Epmb cmb	a272	1aU40	14UJ	1aUJ6	1aU41	- U10	DDe
v new8T	a 72	U44	JU-	U62	U-	- UJS	DDe
v nDDr p	6- 72	2- U40	2- UaJ	2- U61	2- Uaa	SU-	DDe
&%Dpnl cmb	1a671						dDl
&%Dpnl cmb	1a672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16a71				1SJ		G
h n8b cmb	16a72				1S-		G
t5ocmb	11a71				1S6		G
t5ocmb	11a72				1SS		G
tpn5	a472	21 a U1a	2146 UJ2	221J6Uaa	21J01UJ4	1U60	DDe
tpn5	a672	21424U00	21Sa0UJJ	21024U0	214S2Ua4	1Ua6	DDe
tpn5	a072	1 11U2J	2S14 US0	2S- 04U6S	2S144UJ	1U1a	DDe
Kp%DTn5	J- 71						dDl
Lr wo	2S671	a U41	aJU-	aJU-S	aJU0S	1USa	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S071	a6U0	a4U2-	a6U2J	aaU00	2U4-	DDe
Lr wo	2SJ71	a0U -	a6U2	a0UJ-	a0U6	1Ua0	DDe
LdEomb	671						G
y wW5r l omb	2472	4aS2USJ	4aS6U21	4aa4U0S	4a21USS	SU6a	DDe
y w5Mw5r l r	aa72	J4- U4	J4SU4-	JaSU a	J4aU11	SU6-	DDe
y n8%eor 5mb	471	0US-	0U42	0UJ J	0U2J	2U a	DDe
y n8%eor 5mb	a71	SUJS	SUJ1	SUJ-	SUJ2	1UJ6	DDe
y n8%eor 5mb	671	1Ua1	1Ua2	1UaJ	1Ua-	2UJ1	DDe
y n8%eor 5mb	071	SU00	SU S	1US1	SUJ	1- UJ0	DDe
y n8%eor 5mb	J71	SUJ1	SUJ2	SUJ1	SUJ1	SUa6	DDe
u r no%b omb	1aS71						dDl
u r no%b omb	1aS72						dDl
u cdkr 8	6S72	1aUJ1	1aU4-	14UJ	1aUSa	- U0J	DDe
NEnl DEnpm	- 172	1421UJa	16S6U6	1614U6a	1a40Ua6	0USS0	DDe
NnTwl omb	- 72	4142UJJ	41a2UJ-	422SUJS	4102USS1	1USS2	DDe
CEnoomb	1S- 71				1S0		G
CEnoomb	1S- 72				1S-		G
l dw5oomb	4a71				1S6		G
l dw5oomb	4a72				J		G
l r 8 5omb	J271	1USS	1Ua4	SU00	1U1S	- aUaa	DDe
l r 8 5omb	0072	4 U40	a2UJ6	4SU22	40UJa	1- U4S	DDe
l r 8 5omb	0J72	11UJ	1SU1-	U01	1SUaJ	1SU a	DDe
l c8dn5	2J71	246U40	2aSUJ6	24JUa-	24JU4a	SU0J	DDe
l c8gr p	1S071	SU26	SU22	SU24	SU24	JUaS	DDe
l c8gr p	1S 71	SU26	SU22	SU2a	SU24	0UJ-	DDe
l noomb	2- 72	11SUJS	1SaUJJ	11SUaJ	1SJU2	2U42	DDe
l Tpn5Tomb	J671	UJ	1S1UJ1	1SSU12	1SSU44	SU06	DDe
l Tpn5Tomb	JJ71	1SaU1S	1S4UJ	1S- UJ	1S4U66	SU64	DDe
l m8mp	- 471	71J2 UaS	716S6U04	710J6U10	7104SUJS		DDe
Ar peomb	1a 71				1SJ		G
Ar peomb	1a 72				1S-		G
AEw8omb	2S- 71	SU2J	SU2J	SUJ2	SU2	0USJ	DDe
AEw8omb	2Sa71	SUJ1	SU20	SUJS	SU2	6U1a	DDe
Ac5	11J71	1U4a	1U44	1UJ	1U4-	2UJ	DDe
AcTw5omb	4071	14SUSS	141U S	141UJ0	141U26	SU00	DDe
Rpw5omb	2- J71	2U2S	2U1a	2U22	2U1	1U6	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	a172	- a00	- 4la0	- 6U20	- ala4	2U46	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	J 71				11-		G
YTTpcmb	J 72				111		G
Zc5d	6672	14aUS6	14 U1S	14 USS2	140U0-	1Ua6	DDe
Zqpdn5cmb	S71	- U0-	- UJS	- UJ4	- U0	1UaS	DDe
Zqpdn5cmb	171	- U6-	- Ua	- UJS	- UJS	4U2a	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	096hF42	096SF-6	60- SFS8	0286F62	6F61	I I b
c n&Amon%	12171	SF4S	SF4-	SF42	SF42	- F86	I I b
c rsenAq	0972	11F2h	12F06	1SF0-	11F6S	hFS4	I I b
BarAum	1- 971	169F8S	164F11	16hF44	166F49	1F64	I I b
BarAum	1- 071	160F-4	164F0-	10SFS-	160F-0	1F98	I I b
Ber%lAum	h71	1FS0	1F19	1FSh	1F1S	- F48	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				112		G
BromAne	8171						ql s
RaOmAum	1S871	SFh-	SF90	SF6-	SF01	20F28	I I b
RaOmAum	1S671	72FS8	7- Fh2	7- F2-	7- FS8		I I b
RaOmAum	11171	SF90	SF9-	SF96	SF99	- F6h	I I b
RalqAum	4- 71	4821FS2	4861F44	48h0F21	489hF8h	SF08	I I b
RalqAum	4471	4hhSF2-	9129F6h	9S26F1S	9S40F-4	1F-h	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 971						ql s
REIorAne	- 972						ql s
REromAum	9272	10F22	10F16	19F2-	16F94	6F89	I I b
Robal&	9h72	6F68	6F6h	9Fh-	6F4-	6F06	I I b
RoI I er	6- 72	1- Fh6	14F4-	1- FS6	1- F82	9FS9	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				11S		G
DnOAum	11971				1S8		G
DnOAum	11972				1S6		G
Don	9472	14S92FhS	14S1- F-2	12912F1S	1- 926F11	6F4h	I I b
Don	9672	144- SF20	140S2F12	1- - 99F01	14162F0S	9FS-	I I b
Don	9072	1- 8S4F46	1- 818F6h	12- 04F81	1- - - 2F69	6F22	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	49F16	46F90	49F8S	49F84	1F94	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4- F89	44F5-	44F2S	44F52	SF4S	l l b
LeaO	2S871	44F49	49F4h	44Fh0	44Fh0	1F16	l l b
LA&EAum	671				h6		G
MagnesAum	2472	1h12F4h	1h26F86	1014F6h	1891F- 9	6F4S	l l b
Manganese	9972	401FhS	40- F98	421F88	499F08	6F44	l l b
Mol%bOenum	h471	- F89	4F12	4F22	4F56	4F0-	l l b
Mol%bOenum	h971	1F59	1F54	1F10	1F58	6F89	l l b
Mol%bOenum	h671	1F- -	1F44	1F42	1F4S	4F41	l l b
Mol%bOenum	h071	1F19	1F1-	1F50	1F11	- F62	l l b
Mol%bOenum	h871	1F29	1F12	1F26	1F21	6F42	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	12F- 6	12F44	1SF89	11F88	0F94	l l b
PEosI Eorus	- 172	980F- 6	984F91	486Fh8	992Fh9	1SF- 4	l l b
Po&assAum	- h72	189- F02	1848F04	16S4F10	1068F88	8F50	l l b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S8		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S4		G
pelenAum	8271	SFh4	SF- 1	SF92	SF9h	9- F68	l l b
pelenAum	0072	- 0F40	- 9F66	- hF2S	- 0F44	4F02	l l b
pelenAum	0872	9F8-	6Fhh	4F- S	9F01	2- F62	l l b
pAAqon	2871	11hF16	11hF49	12SF14	11hF98	SF42	l l b
pAver	1S071	SF1h	SF10	SF21	SF1h	1SF- 2	l l b
pAver	1Sh71	SF1h	SF2S	SF22	SF2S	6F14	l l b
poOAum	2- 72	8hF2h	h9F- 2	06F00	80F1-	1SF86	l l b
p&ona&um	8671	4SF02	42F80	42F42	42F5S	2F0S	l l b
p&ona&um	8871	41F4-	42F9-	42F64	42F2S	1F98	l l b
pulfur	- 471	72964F6-	72401Fh2	72- 09F6h	7240SF09		l l b
i erbAum	19h71				1S6		G
i erbAum	19h72				1Sh		G
i EallAum	2S- 71	SF1h	SF22	SF21	SF21	6F2h	l l b
i EallAum	2S971	SF2S	SF2S	SF21	SF21	2F48	l l b
i An	11871	2F9S	2F46	2F9-	2F9S	1F4h	l l b
i A&anAum	4071	h8F26	1S1F2S	1S- F- 4	1SSFh-	2F9-	l l b
UranAum	2- 871	1F42	1F40	1F4S	1F4-	2F94	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	26F6-	20F- 1	24F21	26FS9	6F29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				112		G
Y&&Aum	8h72				116		G
ZAnq	6672	60F49	0SF96	62F48	66FB-	6F1S	l l b
ZAqonAum	hS71	1F0-	1F08	1FB6	1F0h	- F62	l l b
ZAqonAum	h171	1F66	1FB1	1F66	1F01	4Fn-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	19194F96	1426hF10	141h0F00	1494SF9S	- F60	I I b
cn&Amon%	12171	SF46	SF91	SF40	SF48	9F0h	I I b
crsenAq	0972	11F48	11F12	1SF86	11F19	2F0h	I I b
BarAum	1- 971	- S- F4S	2h0F80	2h8Fh1	- SSFS6	SFh8	I I b
BarAum	1- 071	- S2F62	- S1F11	- S4F00	- S2F8-	SF61	I I b
Ber%lAum	h71	2F1-	2F12	2F1-	2F1-	SF26	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F48	1F92	1Fh4	1F69	19F1h	I I b
RaOmAum	1S671	SF6S	7SFS9	7SF91	SFS1	922- FSS	I I b
RaOmAum	11171	1F- 9	1F41	1F- -	1F- 6	- F28	I I b
RalqAum	4- 71	88h6F68	88- 0F61	h1- 1F4h	8h99F26	1F04	I I b
RalqAum	4471	h22- F4S	h14hF21	h694F4S	h- 42F- 4	2Fh2	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	18F2-	10Fh2	10FS2	10F02	- F96	I I b
Robal&	9h72	12F6S	11F84	11F02	12FS6	- Fh4	I I b
Rol I er	6- 72	28F98	20F9-	20F- 8	20F8-	2F- 4	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S9		G
DnOAum	11971				1S6		G
DnOAum	11972				1S2		G
Don	9472	- 4h96F19	- - 0h2F64	- - 119Fh1	- - h94FhS	2F04	I I b
Don	9672	- 9129FhS	- - - SSF18	- 282SF1-	- - 048F04	- F6S	I I b
Don	9072	- 2h89FhS	- 1109F- 4	- 11ShF60	- 1096Fh0	- F- 9	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	6- FSS	61F6h	64F90	6- FSh	2F2h	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	9hF80	98F0h	61F-9	6SFSS	2F14	l l b
LeaO	2S871	61Fh6	6SF6S	62F00	61F08	1F00	l l b
LA&EAum	671				hh		G
MagnesAum	2472	496SF86	4420F9S	44S0FS1	4469F12	1F80	l l b
Manganese	9972	h8hFS1	h9SFh9	h-4Fhh	h98F-1	2FhS	l l b
Mol%bOenum	h471	0F-6	0F-6	0F2h	0F-4	SF9S	l l b
Mol%bOenum	h971	1F8h	2FSS	1Fh1	1Fh4	-FSS	l l b
Mol%bOenum	h671	2F98	2F96	2F40	2F94	2F9S	l l b
Mol%bOenum	h071	1F89	2F12	2F14	2FS4	0Fh0	l l b
Mol%bOenum	h871	1Fh-	2FSS	2FS9	1Fhh	-FS9	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	-6F01	-4F14	- -F0S	-4F89	4F60	l l b
PEosI Eorus	-172	1696F8-	1496F-S	1900F06	196-F6-	6F46	l l b
Po&assAum	-h72	6128F90	909SF06	90-0F68	9802F-4	-F08	l l b
5 EoOAum	1S-71				1S0		G
5 EoOAum	1S-72				1S4		G
pqanOAum	4971				1S0		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F-4	1F4h	1F0S	1F91	12FS8	l l b
pelenAum	0072	90F18	91F1-	6SF86	96F-h	8F02	l l b
pelenAum	0872	1-F09	1SF-9	hF86	11F-2	18F01	l l b
pAAqon	2871	180F60	186F94	1h4Fh6	18hF02	2F41	l l b
pAver	1S071	SF22	SF24	SF26	SF24	1SF2-	l l b
pAver	1Sh71	SF2-	SF20	SF20	SF26	8FS1	l l b
poOAum	2-72	11SF6-	1S4F-9	1S9F0-	1S6FhS	-FSh	l l b
p&ona&um	8671	91F2-	48F6h	9SF00	9SF2-	2F6h	l l b
p&ona&um	8871	9SF4h	48F6h	9SF01	4hFh0	2F21	l l b
pulfur	-471	72S81F29	72-40F4S	72S1-F86	72140F91		l l b
i erbAum	19h71				1S8		G
i erbAum	19h72				1S-		G
i EallAum	2S-71	SF42	SF-8	SF48	SF42	12FS1	l l b
i EallAum	2S971	SF4-	SF41	SF-h	SF41	4F42	l l b
i An	11871	2FS4	2FS1	2F12	2FS9	2F68	l l b
i A&anAum	4071	-16F0S	-10F-	-18F44	-10F4h	SF28	l l b
UranAum	2-871	2F46	2F46	2F9S	2F40	SFh2	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	42F29	4SF42	- hF02	4SF8S	- F21	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				110		G
Y&&Aum	8h72				110		G
ZAnq	6672	216F28	2S0FS-	2S4F6-	2ShF- 2	2Fh4	l l b
ZAqonAum	hS71	- F2-	- F26	- F- 0	- F2h	2F28	l l b
ZAqonAum	h171	- F2h	- FS-	- F- 1	- F21	4F86	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	18- 11Fh8	1844- F4h	18281F21	18- 49F96	SF40	I I b
c n&Amon%	12171	SF- 1	SF- 2	SF- 9	SF- -	6F12	I I b
c rsenAq	0972	12FS6	11F40	11F04	11F06	2F4h	I I b
BarAum	1- 971	- 04FS1	- 61F- -	- 68F14	- 60FB-	1F0-	I I b
BarAum	1- 071	- 6hF22	- 64F00	- 68Fh8	- 60F66	SF68	I I b
Ber%lAum	h71	2F09	2F01	2F01	2F02	1FSS	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F2S	1F- S	1F68	1F- h	18F2-	I I b
RaOmAum	1S671	7SFS4	SF4h	71FS4	7SF1h		I I b
RaOmAum	11171	1F21	1F19	1F1h	1F18	2F- 9	I I b
RalqAum	4- 71	11SS6FS-	1S000F28	1S08SF- S	1S894F9-	1F21	I I b
RalqAum	4471	11498F6-	11- 1SF66	11- 49F11	11- 01F40	SF68	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	26F19	26F21	26F10	26F18	SF11	I I b
Robal&	9h72	19FS2	14FB8	19F14	19FS1	SFB4	I I b
RoI I er	6- 72	28FBh	28Fh2	2hF46	2hFSh	1F1S	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S0		G
DnOAum	11971				1S8		G
DnOAum	11972				1S2		G
Don	9472	42h8hF48	4- 9- 4F4-	4- 124F06	4- 216F22	SF66	I I b
Don	9672	42h62F4-	42288F14	42982FS8	4261SFB8	SF0h	I I b
Don	9072	4- 0h4FB2	44122F0-	4- 400Fh6	4- 0h8F9S	SF04	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	90Fh8	98F14	90F6S	90Fh1	SF40	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	96F28	96F9h	99F2S	96FS-	1F- S	I I b
LeaO	2S871	98F18	90F04	90F16	90F6h	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	9- 14F88	929hF44	9290F82	9200F- 8	SF62	I I b
Manganese	9972	1260F26	1262F80	120hF16	126hF06	SF66	I I b
Mol%bOenum	h471	9F00	9F0h	9F90	9F01	2FSh	I I b
Mol%bOenum	h971	2F- 6	2F2S	2F22	2F26	- F81	I I b
Mol%bOenum	h671	2F64	2F92	2F94	2F90	2F4h	I I b
Mol%bOenum	h071	2F1h	2F- S	2F22	2F24	2F46	I I b
Mol%bOenum	h871	2F- -	2F4-	2F22	2F- -	4F94	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- SFh4	- SFS6	2hF88	- SF- S	1F88	I I b
PEosI Eorus	- 172	1441FS6	1929F44	1- - 8F88	14- 9F1-	6F91	I I b
Po&assAum	- h72	626- F2S	6102F90	61S1FS4	6108Fh-	1F- 2	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S8		G
pqanOAum	4972				1S1		G
pelenAum	8271	1F06	1F- -	1F18	1F4-	21F2h	I I b
pelenAum	0072	0- FSh	06F- 6	61F94	0SF- -	11FS0	I I b
pelenAum	0872	19Fh9	14F41	16F0-	19F0S	0F9-	I I b
pAAqon	2871	240F99	248FS8	244F4-	246F6h	SF8S	I I b
pAver	1S071	SF24	SF22	SF2S	SF22	8FS1	I I b
pAver	1Sh71	SF28	SF2S	SF26	SF29	10F28	I I b
poOAum	2- 72	122F6-	12- F28	12SF62	122F18	1F1-	I I b
p&ona&um	8671	61F88	61F28	90F62	6SF26	- F8-	I I b
p&ona&um	8871	6SF06	6SF- h	98F- -	9hF8-	2F1h	I I b
pulfur	- 471	72618F22	72862F29	7204- FS1	72041F16		I I b
i erbAum	19h71				11S		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF9S	SF99	SF4h	SF91	9F90	I I b
i EallAum	2S971	SF40	SF40	SF91	SF48	4F89	I I b
i An	11871	- F- 4	- F12	- F41	- F2h	4F99	I I b
i A&anAum	4071	200F- 4	206F0h	20hFh6	208FS-	SF61	I I b
UranAum	2- 871	2F84	2Fh0	- FS1	2Fh4	2Fh8	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	9SF2S	4hF08	4hF9h	4hF86	SF62	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				121		G
Y&&Aum	8h72				12S		G
ZAnq	6672	2S8Fh6	211FSh	211F-4	21SF40	SF62	l l b
ZAqonAum	hS71	2F2h	2F20	2F21	2F26	1F86	l l b
ZAqonAum	h171	2F- -	2F24	2F14	2F24	4F2-	l l b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	2S909F16	1h620F90	2SS98F11	2SS86Fh9	2F- 6	l l b
cn&Amon%	12171	2F29	2F- 1	2F1h	2F29	2F98	l l b
crsenAq	0972	46FS6	46FSS	44F92	49F9-	1Fh2	l l b
BarAum	1- 971	6- 4F2-	616FhS	614F61	621Fh1	1F02	l l b
BarAum	1- 071	6- 4F- 6	622F81	62- F96	626Fh1	1FS-	l l b
Ber%lAum	h71	- F21	- FSS	- F21	- F14	- F09	l l b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	- F66	- F44	- F92	- F94	- F10	l l b
RaOmAum	1S671	- F81	1F80	71FS6	1F94	19hF10	l l b
RaOmAum	11171	- F- S	- F91	- F- -	- F- 8	- F- 4	l l b
RalqAum	4- 71	41S48F- 1	41912F88	4S44- F- 4	41SS1F91	1F- 1	l l b
RalqAum	4471	42996FhS	42h84F44	418h6F61	4240hF- 2	1F2h	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	- - F82	- 2Fhh	- - FSh	- - F- S	1F- 6	l l b
Robal&	9h72	12F6-	11FhS	12F- h	12F- 1	- FS-	l l b
Rol l er	6- 72	h9F99	hSFh0	h4FSS	h- F9S	2F4h	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S6		G
DnOAum	11971				1S0		G
DnOAum	11972				1S-		G
Don	9472	- 6206F96	- 499- F09	- 99- - F91	- 9494F6S	2F44	l l b
Don	9672	- 6299F62	- - 04SF8-	- 6- 99FS4	- 949SF9S	4F18	l l b
Don	9072	- - 648F12	- 2406FS0	- - - 29F04	- - 14hFh0	1F8-	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	9h1F8-	9h- F64	909Fh0	980F19	1F66	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	969Fh1	968F6h	999F6-	96- F41	1F22	l l b
LeaO	2S871	969F1h	90- F80	99hF40	966F18	1F28	l l b
LA&EAum	671				h6		G
MagnesAum	2472	0886F28	0910F69	0696F91	0686F81	2F42	l l b
Manganese	9972	1222F49	110- F98	11h4F84	11h6Fh6	2FS9	l l b
Mol%bOenum	h471	hF2S	hF42	hF= 0	hF= -	1F24	l l b
Mol%bOenum	h971	- F28	- F1-	- F= 1	- F24	2Fh6	l l b
Mol%bOenum	h671	- F80	- F02	- F82	- F8S	2FS-	l l b
Mol%bOenum	h071	- F29	- FS4	- FS8	- F12	- F90	l l b
Mol%bOenum	h871	- F29	- F2-	- F= 4	- F20	1F8h	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	20F02	29F0h	26F90	26F6h	- F69	l l b
PEosI Eorus	- 172	208- F91	2011F6-	20h4FS4	206- FS6	1F62	l l b
Po&assAum	- h72	96hhF6S	9412FS1	966hFS8	99h- F96	2F82	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S6		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F96	1F44	1F84	1F62	12F08	l l b
pelenAum	0072	- hF8-	- 0F92	- 8F19	- 8F9S	- F11	l l b
pelenAum	0872	8F9h	8F41	8F08	8F9h	2F11	l l b
pAAqon	2871	2- 2F= 0	2- SF04	226F= 6	22hF82	1F= 9	l l b
pAver	1S071	1F12	1F11	1F1S	1F11	SFh4	l l b
pAver	1Sh71	1F11	1F18	1F1S	1F1-	- Fh2	l l b
poOAum	2- 72	990F= S	942F46	998F18	992F69	1F6S	l l b
p&onA&um	8671	- S9F16	- SSF1h	- S1FS9	- S2F1-	SF88	l l b
p&onA&um	8871	- S9F26	- S6F84	- 11F90	- S0F8h	1FS0	l l b
pulfur	- 471	7606F= 0	7- 46F24	76- 0F= 4	799- F= 2		l l b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF= 0	SF= 9	SF= -	SF= 9	6F0-	l l b
i EallAum	2S971	SF= -	SF= -	SF= 1	SF= 2	2F00	l l b
i An	11871	12F6-	12F61	1- FS2	12F09	1F81	l l b
i A&anAum	4071	416FS8	42- FS8	4ShFS1	416FS6	1F6h	l l b
UranAum	2- 871	2F= 0	2F94	2F40	2F46	- F92	l l b

Reviewed By:Bin
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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	6- F29	6SF96	61F2S	61F60	2F28	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				114		G
Y&&Aum	8h72				11-		G
ZAnq	6672	1SS1F08	h6SF69	h6hFS4	h00F16	2F22	l l b
ZAqonAum	hS71	- F06	- F98	- F04	- F6h	2F60	l l b
ZAqonAum	h171	- F84	- F89	- F9S	- F0-	9F- 8	l l b

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pt 5Tl sb DPP t&:	y h SF2N	&dPmTm5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdPP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	1JS49U26	1J1S1U24	1J2SJUN-	1J11NU00	SU44	DDe
q5Tb n5%	12171	SUJ1	SUNN	SUNS	SUN0	6UJN	DDe
qpwr 5cd	0972	46U62	49UNS	46U10	46U2S	SUNN	DDe
Bspcmb	1- 971	4JSU1S	4J1UJN	40JU64	4N0U24	1UJ6	DDe
Bspcmb	1- 071	4J- U60	4N0U29	406U0S	4N9UN0	1U06	DDe
Br p%PPmb	J71	2U94	2U41	2U4-	2U46	2U0S	DDe
Bcvb mTE	2SJ71				1S6		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U11	1UJS	1U92	1UN9	16U2S	DDe
v sob cmb	1S671	71U14	SUJN	7- US6	71U20		DDe
v sob cmb	11171	1UJ4	1UN0	1UN4	1UNN	2U6-	DDe
v sPdcmb	4- 71	269NSUN1	26S69U1N	26902USN	264S6US2	1U12	DDe
v sPdcmb	4471	20069U2S	26N00U2N	20SN6U96	2024- US1	1U0S	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- 971						dDw
v EPmpc5r	- 972						dDw
v Epmb cmb	9272	20U6-	20UJS	2NU26	20UJ-	1U1-	DDe
v nesPT	9J72	19UJ6	19U99	19U66	19U92	SUJJ	DDe
v nDDr p	6- 72	0SU0J	0SU96	01U9S	0SUJ9	SU6J	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1S0		G
h nPb cmb	16972				1S9		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1S2		G
tpn5	9472	41S16U22	4SJ60UJ6	42101UN1	41- N9U1-	1U69	DDe
tpn5	9672	4S2J9U9S	4S222UJ4	4144NU9S	4S699U49	1U6J	DDe
tpn5	9072	4S092US1	- N- S- U96	- JS- NUJ4	- J- 64U64	- U1J	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	2S2U0-	1J4U22	1J4U4-	1J0U1-	2U46	DDe

Reviewed By:Bin
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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5Tl sb DP t&:	y h SF2N	&dPmTm5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	1J4USS	1N6U94	1JSU2-	1JSU29	1UJ6	DDe
Lr so	2SN71	2SJU9-	1JJU69	2S- U4J	2S4U22	2U44	DDe
LdEcmb	671				JN		G
y sM5r wcmb	2472	02J0UJ4	0- 10UJ	0- 1NU26	0- 11U2S	SU16	DDe
y s5Ms5r wr	9972	114SUJ-	11- 0U2J	119JU6S	1149UJ4	1US4	DDe
y nP%eor 5mb	J471	NUSS	NU12	0U01	0UJ4	2U64	DDe
y nP%eor 5mb	J971	- U11	- US-	2UJ6	- US-	2U42	DDe
y nP%eor 5mb	J671	- U4N	- U9N	- U9-	- U9-	1UJ4	DDe
y nP%eor 5mb	J071	2UN6	2UJ0	2UN9	2UNU	2U42	DDe
y nP%eor 5mb	JN71	2UNU	- US0	2U0N	2UJ1	4UJ0	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	- 6U10	- 6U64	- 0U2N	- 6U0S	1U92	DDe
8 EnwDEnpmw	- 172	101- U20	1NJ4US2	10N4U20	10J0U1J	9US0	DDe
8 nTswwcmb	- J72	9NS6UN2	9J4NUJN	9J- 0U04	9NJ0U64	1UJ4	DDe
CEnocmb	1S- 71				1S9		G
CEnocmb	1S- 72				1S-		G
l ds5ocmb	4971				1S0		G
l ds5ocmb	4972				1S1		G
l r P 5cmb	N271	2USN	1UJ6	1UJ4	1U9J	26U9N	DDe
l r P 5cmb	0072	- 0UJ6	9SU2J	44UJ1	44UJJ	1- UJ-	DDe
l r P 5cmb	0N72	1SUJN	NU69	1SUS1	JUNN	11UN9	DDe
l dcdn5	2N71	2- 9US-	2- SUJ-	2- JU9S	2- 4UJ9	1UJ9	DDe
l dgr p	1S071	SU66	SU01	SU02	SU0S	9US-	DDe
l dgr p	1SJ71	SU02	SU69	SU09	SU01	0UJ1	DDe
l nocmb	2- 72	2J- UN9	- S0UNS	- S9U10	- S2U20	2U49	DDe
l Tpm5Tcmb	N671	2S1U24	2S9U9N	1JJUJN	2S2U20	1U49	DDe
l Tpm5Tcmb	NN71	21SUJS	212U60	2SJUS1	21SUN6	SUN0	DDe
l mPmp	- 471	71964UJ0	71N1SUN6	714- 2US9	716S2U42		DDe
Ar pecmb	19J71				1SJ		G
Ar pecmb	19J72				1S9		G
AEs Pbmb	2S- 71	SU4N	SU4S	SU4S	SU4-	11UJ6	DDe
AEs Pbmb	2S971	SU44	SU41	SU4-	SU4-	- U2S	DDe
Ad5	11N71	NU2-	NU21	NU24	NU2-	SU16	DDe
Ad5 5cmb	4071	1- 9U92	12JU69	1- 4U60	1- - U2N	2UJN	DDe
Rps5cmb	2- N71	2U2S	2USJ	2U21	2U10	- U1S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse I sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5TI sb DPP t&:	y h SF2N	&dPnTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	09U2J	00U4-	09U1J	09UJ0	1U66	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11-		G
YTTpomb	NJ72				114		G
Zd5d	6672	- 4NU1S	- 44U24	- 99USJ	- 4JU14	1U90	DDe
Zqpdn5omb	JS71	- USS	- U1S	2UJ1	- USS	- USN	DDe
Zqpdn5omb	J171	2UJ9	- U19	- U16	- USJ	- UNN	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ro&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAum	2072	10SSJUS5	1042 US4	10222U06	1021JU6-	1U21	l l b
cn&mon%	12171	SU42	SUJ	SUJ5	SU4S	U0J	l l b
crwenAq	0 72	1 UJ5	1 UJS	1 UJJ	1 U2	2US1	l l b
BsrAum	1- 71	- S U0J	- 11U21	- S- U20	- S6U0	1UJ2	l l b
BsrAum	1- 071	- S5UJS	- 12U52	- S2U	- SJU42	1U0-	l l b
Ber%RAum	571	2U11	2U11	2US1	2USJ	2U0J	l l b
BAumu&E	2S571				1S0		G
BAumu&E	2S572				1S4		G
BromAne	J171						ql w
v sOmAum	1SJ71	SU01	SU54	SU55	SUJJ	10U25	l l b
v sOmAum	1S671	72U25	2U0S	72UJ1	7SU6-		l l b
v sOmAum	11171	SU0	SUJ5	SUJS	SUJ1	5USS2	l l b
v sRqAum	4- 71	121- 6U5S	12- 6SU1J	12SJ5U0-	1215 U6S	1U1J	l l b
v sRqAum	4471	1255- U51	12021U2-	12651U4	12JS2U2-	1UJS	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAne	- 71						ql w
v ERrAne	- 72						ql w
v EromAum	272	1JU5-	15UJ-	15U64	15U40	2U4-	l l b
v obsR&	572	12U65	12UJ-	12UJ0	12U05	SU0-	l l b
v ol l er	6- 72	2JU5	- SUJ1	25U00	25U6J	2UJS	l l b
t %w l rowAum	1 671						ql w
t %w l rowAum	1 672						ql w
. rbAum	16471						ql w
. rbAum	16472						ql w
HsOoRAum	16S71						ql w
HsOoRAum	16S72						ql w
hoRmAum	16 71				1S5		G
hoRmAum	16 72				1S4		G
DnOAum	11 71				1SJ		G
DnOAum	11 72				1SS		G
Don	472	- 14- - U6	- - 1SJU4	- 2 0- U42	- 2- 01UJ4	2U64	l l b
Don	672	- 1JJ5USS6	- 26- 1U0S	- 2S6JUSJ	- 2156U2J	1U2S	l l b
Don	072	- S- 26U-	- S- SJU22	25512U65	- S1J2U4J	SU00	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	05U04	J- U41	JSU40	J1U21	2UJ5	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psmI Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psmI Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	06U14	JSU1S	00U0	0JUSS	2U	I I b
LesO	2SJ71	0JU42	J1USS	0JU05	05U41	1U06	I I b
LA&EAum	671				5J		G
y sMnewAum	2472	220US4	4JSU-	4JJUS6	- 5JU4J	2U0	I I b
y snMsnewe	72	656U5J	011U-	0S US	0S4U2	1US-	I I b
y oP%bOenum	5471	U1J	U2	U5	US	1U5J	I I b
y oP%bOenum	5 71	1U10	1U2J	1U15	1U21	4U60	I I b
y oP%bOenum	5671	1U6	1U6-	1U2	1U6S	4U16	I I b
y oP%bOenum	5071	1U20	1U1	1U24	1U22	US0	I I b
y oP%bOenum	5J71	1U2-	1U21	1U2J	1U24	- US6	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	26U50	2JUSJ	20U40	20US	2US1	I I b
8EowI Eoruw	- 172	5 1UJ4	J15USS	J0- U21	JJ1U	0UJ	I I b
8o&swwAum	- 572	4JJ- U02	45J U-	4562U1	454- U0J	1USJ	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S-		G
pqsnOAum	4 71				1S0		G
pqsnOAum	4 72				5J		G
pe&enAum	J271	SU55	SU	1US-	SUJ6	- 1U21	I I b
pe&enAum	0072	4 UJ0	1U1S	64U4J	- UJ2	10UJ-	I I b
pe&enAum	0J72	1SUJ2	1SU2S	11U22	1SU0	4U0	I I b
pAqon	2J71	10 U6S	1J- U5	1J2UJ-	1JSU60	2U44	I I b
pAger	1S071	SU	SU4	SU0	SU	2US	I I b
pAger	1S571	SU0	SUJ	SU4	SU6	- U66	I I b
poOAum	2- 72	54U55	1SSUS	1SSUJ	5JU6-	- U22	I I b
p&on&Aum	J671	52UJS	5- U6-	51U64	52U65	1USJ	I I b
p&on&Aum	JJ71	5 U46	54U4-	5JU66	56U1J	2U25	I I b
pu&ur	- 471	72- 40U2	721S4U50	72251UJ4	7224JU11		I I b
i erbAum	1 571				11S		G
i erbAum	1 572				1S-		G
i EsPAum	2S- 71	SUJ0	SUJ5	SU46	SU41	11U0-	I I b
i EsPAum	2S 71	SU4S	SU4S	SUJ0	SUJ5	UJ6	I I b
i An	11J71	2U1J	2U2	2USS	2U10	- U00	I I b
i A&snAum	4071	1 1U64	1 - U2J	1 4U2	1 - U1	SU54	I I b
RrsnAum	2- J71	1UJS	1UJ1	1U2-	1U2J	- UJS	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUD

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	U4	JUJ0	0U02	0UJ	2U54	I I b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				116		G
Y&&Aum	J572				111		G
ZAnq	6672	1 4U5-	1 5U1	1 0UJ5	1 0U44	1U4J	I I b
ZAqonAum	5S71	2U44	2U45	2US	2U4J	1U10	I I b
ZAqonAum	5171	2U0	2U4	2UJ1	2U40	U51	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20 2	9S92N.Sy	91491.07	91y12.01	912y0.91	1.70	DDe
qCTb 5Ch	121 1	4y7.S6	9S0.21	4y6.yN	4yy.SN	1.46	DDe
qpwr Ccd	09 2	922.7y	920.27	929.y1	929.10	S.4N	DDe
Bspcmb	179 1	246S.Ny	2406.yS	29S2.99	24NS.11	S.N9	DDe
Bspcmb	170 1	2429.y4	291N.16	2926.29	24yS.12	2.24	DDe
Br phPmb	y 1	4N0.S9	409.21	4y7.y9	4N9.4S	1.y9	DDe
Bcwb mT%	2Sy 1				y6		E
Bcwb mT%	2Sy 2				y7		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	9S1.24	4y9.60	4y0.7S	4yN.S0	S.9N	DDe
3 sob cmb	1S6 1	4N6.92	9S0.yN	4y1.9S	4y9.77	2.20	DDe
3 sob cmb	111 1	4y9.7y	9S1.04	9S1.1N	4yy.44	S.0S	DDe
3 sPlcmb	47 1	27NS71.46	27yS1y.y6	246y79.4S	24172N.y4	2.S2	DDe
3 sPlcmb	44 1	279909.2S	2709S7.N1	27y201.42	27049S.14	S.0N	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %P5pCr	79 1						dDw
3 %P5pCr	79 2						dDw
3 %p5b cmb	92 2	4N4.S2	4N0.69	4N6.S2	4N9.yS	S.70	DDe
3 5esPT	9y 2	4N0.47	4N4.04	4y1.S9	4N0.04	S.69	DDe
3 5DDr p	67 2	9791.06	91N7.40	9720.46	92N0.96	1.02	DDe
&hwDp5wcmb	196 1						dDw
&hwDp5wcmb	196 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PCcmb	16S 1						dDw
Hso5PCcmb	16S 2						dDw
K5Pb cmb	169 1				1S1		E
K5Pb cmb	169 2				1SS		E
tCocmb	119 1				y6		E
tCocmb	119 2				y2		E
tp5C	94 2	17S6S0.61	1294S2.91	126721.SN	120447.07	2.1N	DDe
tp5C	96 2	1266yS.4y	126SSN.S4	1266N0.22	126461.y1	S.71	DDe
tp5C	90 2	12y970.S9	126941.42	12091S.yN	120N67.19	1.2S	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	27y1.27	2979.67	2927.64	24N7.9S	7.27	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sT:i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sp sb r Tp	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0 1	27NN.0S	2941.17	2919.0y	24N1.N0	7.2y	DDe
Lr so	2SN 1	24S1.00	294S.61	291y.0y	24N0.7y	7.S1	DDe
LdP%mb	6 1				N6		E
MsgOr wmb	24 2	297NN2.y7	296269.79	29yNy4.22	2966NS.N7	1.1N	DDe
MsOgsOr wr	99 2	92Sy.90	9171.N1	91S7.1y	914N.1y	1.S0	DDe
M5Pheor Omb	y4 1	4y9N.20	4y07.NS	4y17.4y	4y4N.92	S.67	DDe
M5Pheor Omb	y9 1	4y2y.74	4y61.7N	4ySy.12	4y77.2N	S.97	DDe
M5Pheor Omb	y6 1	4y07.17	4y24.46	4NNS.N1	4y26.17	S.y4	DDe
M5Pheor Omb	y0 1	4N97.y0	4y29.S0	4NyN.4y	4Ny2.91	S.07	DDe
M5Pheor Omb	yN 1	4N4y.N4	9S27.40	9S66.24	4y0y.N9	2.7S	DDe
u r 5ohb omb	19S 1						dDw
u r 5ohb omb	19S 2						dDw
u dfr P	6S 2	9S4.22	4y6.NS	9S4.90	9S1.N0	S.N0	DDe
8 %5wD%5pmw	71 2	y622.07	1S2Ny.96	y02y.24	yNNS.91	7.67	DDe
8 5Tswwmb	7y 2	126y16.16	126710.9y	124722.4y	129N92.SN	1.SN	DDe
R%5omb	1S7 1				y2		E
R%5omb	1S7 2				y1		E
I dsOomb	49 1				y9		E
I dsOomb	49 2				y1		E
I rPOmb	N2 1	40y.y0	4N6.y4	400.76	4N1.42	1.S7	DDe
I rPOmb	00 2	9S6.N6	4y6.2y	94S.9N	914.9N	4.4y	DDe
I rPOmb	0N 2	910.0N	929.66	974.24	929.Ny	1.90	DDe
I dd5C	2N 1	9S9.71	9Sy.77	920.y0	914.2S	2.79	DDe
I dPr p	1S0 1	4N0.71	4N9.1S	4N2.1N	4N4.N6	S.97	DDe
I dPr p	1Sy 1	4y2.4N	4N2.N9	4yS.1S	4NN.4N	1.S7	DDe
I 5omb	27 2	29y414.N9	29N0y4.47	29y66N.1N	29y2y2.4y	S.10	DDe
I Tp5CTomb	N6 1	129S0.14	1296N.0N	121N2.19	1241y.76	1.60	DDe
I Tp5CTomb	NN 1	122N1.64	126Sy.N9	122S6.9S	12766.SS	1.07	DDe
I mPVp	74 1	y779.04	N009.29	y922.6N	y211.22	4.22	DDe
Ar pemb	19y 1				1S1		E
Ar pemb	19y 2				yy		E
A%sPmb	2S7 1	4Ny.N2	9S7.y6	911.yy	9S1.y2	2.24	DDe
A%sPmb	2S9 1	4y0.S6	9S0.4N	9S9.10	9S7.24	1.Sy	DDe
AdC	11N 1	4y2.4S	9S6.7S	4Ny.N6	4y6.1N	1.0N	DDe
AdsOomb	40 1	4y47.69	4yN7.6y	9S9S.yN	4yy2.00	1.Sy	DDe
UpsOomb	27N 1	4yS.74	9S2.62	9Sy.S6	9SS.6N	1.yS	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	91 2	91N.Sy	911.yS	922.49	910.4N	1.S2	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	Ny 1				y6		E
YTTpomb	Ny 2				y4		E
ZdCd	66 2	4yN6.67	4y76.6N	9S11.2N	4y0N.2S	S.06	DDe
Zqpd5Comb	yS 1	4y2.12	4N6.1N	4yy.y6	4y2.09	1.4S	DDe
Zqpd5Comb	y1 1	400.44	402.64	40y.N9	406.64	S.00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5&w
cRmA5Aum	2072	1.2J	- .0J	: .- 1	- .46	: J.06	l l b
c5&mn5y	12171	S.22	S.2J	S.- 1	S.20	1J.S1	l l b
crwe5Aq	0: 72	S.S-	S.Sh	S.SJ	S.S0	42.- h	l l b
BsrAum	1- : 71	S.2-	S.20	S.Sh	S.1h	4J.h0	l l b
BsrAum	1- 071	S.2-	S.2:	S.14	S.21	20.h6	l l b
BeryPAum	h71	S.11	S.11	S.S0	S.1S	24.S:	l l b
BAumu&%	2Sh71				1SS		E
BAumu&%	2Sh72				1SS		E
BrnmA5e	J171						ql w
3 sOmAum	1SJ71	S.1:	S.S-	S.1:	S.11	6: .0-	l l b
3 sOmAum	1S671	74.42	74.- 1	71.1h	7- .- 1		l l b
3 sOmAum	11171	S.S:	S.S6	S.S-	S.S:	- 1.61	l l b
3 sRqAum	4- 71	20.0h	- 6.26	11.2:	2: .1S	: S.66	l l b
3 sRqAum	4471	60.14	66.S:	4- .: 1	: J.hS	22.6:	l l b
3 srbn5	1271						ql w
3 srbn5	1272						ql w
3 %nrA5e	- : 71						ql w
3 %nrA5e	- : 72						ql w
3 %nmAum	: 272	S.S6	S.11	S.S6	S.SJ	- J.10	l l b
3 nbsR&	: h72	S.SS	S.S4	S.S4	S.S2	1SS.: 0	l l b
3 nl l er	6- 72	S.0-	S.h0	1.SS	S.hS	16.21	l l b
t ywl rnwAum	1: 671						ql w
t ywl rnwAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
GsOnP5Aum	16S71						ql w
GsOnP5Aum	16S72						ql w
HnPmAum	16: 71				1S1		E
HnPmAum	16: 72				1SS		E
D5OAum	11: 71				hh		E
D5OAum	11: 72				h6		E
Dn5	: 472	- .0S	h.S1	1S.SS	0.: 0	44.00	l l b
Dn5	: 672	- .J6	J.- h	1S.- -	0.: -	44.1-	l l b
Dn5	: 072	: .h-	J.24	1S.SJ	J.SJ	2: .01	l l b
Kryl &n5	J- 71						ql w
LesO	2S671	S.- J	S.- h	S.- 1	S.- 6	1S.h4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
LesO	2S071	S.42	S.4S	S.2:	S.- 6	2: .2S	I I b
LesO	2SJ71	S.- h	S.4S	S.- 1	S.- 0	1- .SJ	I I b
LA&%Aum	671				JJ		E
Msg5ewAum	2472	4.: J	1- .14	21.0S	1- .14	6: .16	I I b
Ms5gs5ewe	: : 72	S.1S	S.20	S.: :	S.- 1	0: .2J	I I b
MnPybOe5um	h471	S.h1	S.h-	S.06	S.J0	1S.6:	I I b
MnPybOe5um	h: 71	1.10	1.42	S.6h	1.1S	- - .61	I I b
MnPybOe5um	h671	1.S1	1.S1	S.6J	S.hS	21.: h	I I b
MnPybOe5um	h071	S.J0	S.J-	S.0-	S.J1	J.h1	I I b
MnPybOe5um	hJ71	S.h6	1.Sh	S.6:	S.hS	24.h:	I I b
NenOymAum	1: S71						ql w
NenOymAum	1: S72						ql w
NAqkeP	6S72	S.SS	S.S-	S.S4	S.S2	1SJ.6J	I I b
8 %nwl %nruw	- 172	76S.- 2	2.Jh	7- .S4	72S.16		I I b
8 n&swwAum	- h72	: J.1h	: J.J0	: 2.h1	: 6.66	: .06	I I b
R%nOAum	1S- 71				hJ		E
R%nOAum	1S- 72				hh		E
pqs5OAum	4: 71				h4		E
pqs5OAum	4: 72				h1		E
pere5Aum	J271	7S.- 1	7S.61	7S.S4	7S.- 2		I I b
pere5Aum	0072	7S.- J	7S.- J	7S.- J	7S.- J		I I b
pere5Aum	0J72	1.S4	S.JJ	S.24	S.02	: J.hh	I I b
pAqn5	2J71	S.60	S.4h	S.4S	S.: 2	2: .h-	I I b
pAer	1S071	S.S:	S.S4	S.S4	S.S4	16.- h	I I b
pAer	1Sh71	S.S:	S.S:	S.S4	S.S:	J.hJ	I I b
pnOAum	2- 72	1: 1.0J	16S.0:	1: 4.41	1: : .6:	2.h6	I I b
p&n5&Aum	J671	1.2J	1.- 1	S.6:	1.SJ	- 4.10	I I b
p&n5&Aum	JJ71	1.: 1	1.1S	S.6:	1.SJ	- h.00	I I b
pufur	- 471	0J.6:	7- S.h-	7124.: 2	72: .6S		I I b
i erbAum	1: h71				1SS		E
i erbAum	1: h72				hJ		E
i %sPAum	2S- 71	S.- 2	S.- 1	S.2-	S.2J	1J.2J	I I b
i %sPAum	2S: 71	S.2:	S.20	S.22	S.2:	1S.44	I I b
i A5	11J71	S.62	S.S6	S.S0	S.2:	12J.4:	I I b
i A&s5Aum	4071	S.h0	S.J4	S.- -	S.02	40.21	I I b
Urs5Aum	2- J71	S.S4	S.S0	S.S-	S.S:	- 6.Sh	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsqa&r 9	1
t s&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
Vs5sOAum	: 172	S.S2	S.S-	S.S0	S.S4	04.h0	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				hJ		E
Y&&Aum	Jh72				h6		E
ZA5q	6672	S.1J	S.- 1	S.: 6	S.- :	: : .JS	l l b
ZAqn5Aum	hS71	S.S6	S.S6	S.S-	S.S:	- - .- 0	l l b
ZAqn5Aum	h171	S.S2	S.S6	S.S-	S.S4	4J.06	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	2S0JhFJ-	2S1JJF64	2S42: FJ2	2S46JF1S	1F4J	l l b
cn&Amon%	12171	SF0h	SFhJ	SFJh	SFJh	1SF02	l l b
crwenAq	0: 72	1- F44	1- F60	1- F2h	1- F40	1F4-	l l b
BsrAum	1- : 71	- - 2FS6	- - 6F- h	- : : F2J	- 41F24	- F62	l l b
BsrAum	1- 071	- - 0F. 1	- - hF16	- : 0F0S	- 44F0h	- F2:	l l b
Ber%RAum	h71	2F. h	2F0-	2FJ1	2F01	4F1h	l l b
BAumu&E	2Sh71				1S-		G
BAumu&E	2Sh72				1SS		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFJS	SF0J	SF6h	SF06	0F12	l l b
RsOmAum	1S671	71F1h	72F41	7SFh-	71F. 1		l l b
RsOmAum	11171	SF40	SF4J	SF44	SF46	- FJ2	l l b
RsRqAum	4- 71	1J6- hF21	1h1- SFJ0	1hJJ: FJ6	1h21JF6:	- F20	l l b
RsRqAum	4471	1Jh24FhS	1h: SSF6-	2S: ShF41	1h644FhJ	4FSJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REROrAne	- : 71						ql w
REROrAne	- : 72						ql w
REromAum	: 272	26Fh0	26F2J	26F- h	26F. :	1F- h	l l b
RobsR&	: h72	14F46	1- F01	14F1J	14F11	2F6h	l l b
Rol l er	6- 72	26F41	2: F22	2: F. h	2: F04	2F- 0	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoRhAum	16S71						ql w
HsOoRhAum	16S72						ql w
y oRmAum	16: 71				1S:		G
y oRmAum	16: 72				1S1		G
DnOAum	11: 71				1S1		G
DnOAum	11: 72				h0		G
Don	: 472	- 6: - 0FJ4	- : S20F. 6	- : SJ1F2h	- : : 4JFhS	2F41	l l b
Don	: 672	- : 06: F6h	- 4: 01F. 2	- : 2h6Fhh	- : 211F4S	1F01	l l b
Don	: 072	- - 440Fh0	- 2020FS1	- 2h0hF. 6	- - S: 1F. 1	1F11	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	- : F1:	- 6F0S	- 0F22	- 6F- 6	2Fh6	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
LesO	2S071	- 2F0S	- - F. 1	- 4F- 4	- - F. 2	2F4:	I I b
LesO	2SJ71	- - F0J	- 4Fh-	- : FJ-	- 4FJ:	2Fh:	I I b
LAEAum	671				h2		G
MsgnewAum	2472	: 2h6F- 0	: SJSF46	: 16SF01	: 10hF1J	2F11	I I b
Msngsnewe	: : 72	60hF. 4	6: 2FJh	6: 2F- :	661F. h	2F- :	I I b
MoP%bOenum	h471	: F2S	: F- -	: FJ2	: F4:	6FS2	I I b
MoP%bOenum	h: 71	1F14	1FSh	1F24	1F16	6F- J	I I b
MoP%bOenum	h671	1F6J	1F60	1F0S	1F6J	SF0J	I I b
MoP%bOenum	h071	1FSh	1F- 2	1F22	1F21	hF- J	I I b
MoP%bOenum	hJ71	1F16	1F20	1F. 6	1F- -	1: F. h	I I b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	- - F1S	- 1F6J	- 2F2-	- 2F- 4	2F21	I I b
8EowI Eoruw	- 172	4hJF. J	: 0SF46	44hF- 4	: S6F1-	12FS4	I I b
8o&swwAum	- h72	442: FJ-	4- 4hF64	44S0FJ4	4- h4F44	SFh1	I I b
5EoOAum	1S- 71				hh		G
5EoOAum	1S- 72				hh		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h4		G
peRenAum	J271	SFJ6	1F22	1FS0	1FS:	10F10	I I b
peRenAum	0072	64F- S	61F16	64FS1	6- F16	2F0:	I I b
peRenAum	0J72	1: FS-	14F1h	12FS4	1- F0:	11F1J	I I b
pARqon	2J71	242F20	24JF11	2: : FS4	24JF40	2F. 0	I I b
pARer	1S071	SF10	SF1J	SF1J	SF1J	1F. -	I I b
pARer	1Sh71	SF24	SF10	SF2S	SF2S	1hF- J	I I b
poOAum	2- 72	2S1F. 6	10: FJ:	1JJFJ0	1JJF06	6FJ1	I I b
p&on&Aum	J671	0hF2-	J1F0h	J: F04	J2F2:	- Fhh	I I b
p&on&Aum	JJ71	0JFh6	J2F6:	J4Fh0	J2F2S	- F6h	I I b
pufFur	- 471	71S0JF24	71162F0S	7h- 6Fh-	71S: hF2h		I I b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S2		G
i EsFAum	2S- 71	SF6:	SF6J	SF6h	SF60	- F60	I I b
i EsFAum	2S: 71	SF6:	SF6J	SF6J	SF60	2F4h	I I b
i An	11J71	2FS4	2F1-	2F16	2F11	- FS-	I I b
i A&snAum	4071	1- SF. h	12JF12	1- - F04	1- SFJ2	2F1:	I I b
UrsnAum	2- J71	1F26	1F- 1	1F- h	1F- 2	4Fh6	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9119 J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
VsnsOAum	: 172	64F4h	6- F16	6- F1S	6- F: J	1F24	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				111		G
Y&&Aum	Jh72				111		G
ZAnq	6672	11- FJ:	1ShF6h	112F- 1	111Fh:	1FJJ	l l b
ZAqonAum	hS71	2F4-	2F: 0	2F0S	2F: 0	: F- 2	l l b
ZAqonAum	h171	2F62	2F64	2F0-	2F60	2F20	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	JJhhFSJ	J061F1:	J611F24	J0: 0F16	1F64	l l b
cn&Amon%	12171	SF0-	SF0J	SFJ2	SF0J	: Fh1	l l b
crwenAq	0: 72	1SF2S	1SF24	1SF60	1SF- 0	2F. -	l l b
BsrAum	1- : 71	21: FJ6	22SF0J	21: F- S	210F- 1	1F- h	l l b
BsrAum	1- 071	21- F4-	22: F26	222FJ-	22SF. 1	2FJ-	l l b
Ber%BAum	h71	1F40	1F46	1F4J	1F40	SF66	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S2		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFhS	1F1S	1F41	1F14	22F. :	l l b
RsOmAum	1S671	71F. 0	7- F46	7SF41	71FJ1		l l b
RsOmAum	11171	1F- 4	1F26	1F20	1F2h	- F. 2	l l b
RsRqAum	4- 71	6: h1F60	60S4FS0	60JSF0-	66h2F16	1F42	l l b
RsRqAum	4471	6hh1FhS	0S4hFSS	0Sh- F0S	0S44FJ0	SF02	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REBrAne	- : 71						ql w
REBrAne	- : 72						ql w
REromAum	: 272	1- Fh:	1- F. 2	1- F6S	1- F6h	1F6:	l l b
RobsR&	: h72	6F0-	6FJJ	6FJ6	6FJ2	1F2S	l l b
Rol l er	6- 72	4SFSJ	- JF0h	- hFS1	- hF2h	1F0:	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oFmAum	16: 71				1S:		G
y oFmAum	16: 72				1S4		G
DnOAum	11: 71				1S2		G
DnOAum	11: 72				hh		G
Don	: 472	101SJFh0	16: 14F6J	16061Fhh	160h: F21	1F0J	l l b
Don	: 672	10J2- F04	100- JF60	10042Fh1	1006JF44	SF20	l l b
Don	: 072	16060F2:	164- 2FhS	16- 1: F40	16: S: F2S	1F42	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	12hF. S	12hF- h	1- 1F- h	1- SFSh	SFJ6	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
LesO	2S071	12- F- 2	120F21	12JF. h	126F- 0	2F16	l l b
LesO	2SJ71	120FS2	1- 4FS6	1- SFJ0	1- SF6:	2F0S	l l b
LAEAum	671				h4		G
MsgnewAum	2472	21J4F2S	211hFJh	211hF4-	2141F1J	1F04	l l b
Msngsnewe	: : 72	4: 1F61	44: FJ4	44: FhS	440F0J	SF04	l l b
MoP%bOenum	h471	4F. 0	4F06	4F4h	4F61	- FS6	l l b
MoP%bOenum	h: 71	1F2S	1F2:	1F- S	1F2:	- FJ0	l l b
MoP%bOenum	h671	1F. h	1F02	1F62	1F64	4F2:	l l b
MoP%bOenum	h071	1F2S	1F- 4	1F- 1	1F2J	: F42	l l b
MoP%bOenum	hJ71	1F21	1F20	1F22	1F2-	2F6-	l l b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	1SFh0	1SF4-	1SF- 1	1SF. 0	- F- 2	l l b
8 EowI Eoruw	- 172	1J60F26	2S1hFSh	1Jh: F00	1h20F- 0	4F1h	l l b
8 o&swwAum	- h72	- 622FS:	- 6S0F6J	- 622F- -	- 610F- 6	SF2-	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1SS		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h6		G
pe?enAum	J271	SF00	SF6h	SFh1	SF0h	14F2h	l l b
pe?enAum	0072	- 4F. 0	- 6F21	- 1F1S	- - Fh6	0F60	l l b
pe?enAum	0J72	: F00	6F- 6	0F6S	6F. J	14F10	l l b
pAqon	2J71	1J- F- 0	1J6F20	1J0F4:	1J: F0S	1F1-	l l b
pAer	1S071	SF. 0	SF. 4	SF. h	SF. 6	4F6h	l l b
pAer	1Sh71	SF. 0	SF64	SF6S	SF6S	: F- 2	l l b
poOAum	2- 72	1JSFh6	10SFh0	1JJF14	1JSFS2	4F0h	l l b
p&on&Aum	J671	JJF0:	h2Fh2	h2F44	h1F- 0	2F. S	l l b
p&on&Aum	JJ71	JhF41	h: Fh-	h: FJ2	h- F02	- FhJ	l l b
pufur	- 471	7J0- F24	7120hFJh	71S0hF20	71S00F40		l l b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S1		G
i EsPAum	2S- 71	SF- -	SF- -	SF- -	SF- -	SF. 1	l l b
i EsPAum	2S: 71	SF- 1	SF- 1	SF- 1	SF- 1	SF0-	l l b
i An	11J71	4F- 2	4F4S	4F62	4F44	- F4-	l l b
i A&snAum	4071	12hF- S	1- 4F26	1- 4F22	1- 2F. h	2F1:	l l b
UrsnAum	2- J71	2F26	2F1h	2F- 1	2F2:	2F6h	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
VsnsOAum	: 172	2JFh0	20F6h	20FJS	2JF1:	2F: 1	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				1S6		G
Y&&Aum	Jh72				1S2		G
ZAnq	6672	224FS0	21hF00	22SF1h	221F- 4	1FS0	l l b
ZAqonAum	hS71	1Fh:	2F10	1Fh:	2FS2	6F4:	l l b
ZAqonAum	h171	1Fh-	2FS-	2F1J	2FS:	6F21	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t AR&on:. sq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	9 00F-9	9h- hF09	9h- 1F-2	9h16F14	SF90	l l b
cn&mon%	12171	SF6S	SF9	SF66	SF61	6F41	l l b
crwenAq	0972	F20	F01	F4	F4h	2F61	l l b
BsrAum	1- 971	144F42	141FS	1- hF 6	141F0h	1F60	l l b
BsrAum	1- 071	146FSh	14SFS9	14SF49	142F2S	2F-0	l l b
Ber%BAum	h71	1F16	1F24	1F19	1F1	4F1h	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S4		G
BromAne	171						ql w
RsOmAum	1S 71	SF9S	SFh2	SF66	SF6h	- SF0	l l b
RsOmAum	1S671	SF0-	71F66	7- F2h	71F4S		l l b
RsOmAum	11171	SFh1	SFh2	SFh-	SFh2	SF 1	l l b
RsRqAum	4- 71	- 9hhF29	- 6S F42	- 990F1-	- 9 F20	SF06	l l b
RsRqAum	4471	- 9 1F6-	- 69SF-6	- 6S2F 1	- 611F6S	SFh0	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- 971						ql w
REPrAne	- 972						ql w
REromAum	9272	11F-4	11F16	11F49	11F-2	1F-S	l l b
RobsR&	9h72	9F 9	9F09	9F01	9F00	1F2-	l l b
RoI I er	6- 72	26F4-	26F- -	26F-9	26F-0	SF21	l l b
t %wI rowAum	19671						ql w
t %wI rowAum	19672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoPnAum	16S71						ql w
HsOoPnAum	16S72						ql w
y oPmAum	16971				1S4		G
y oPmAum	16972				1S-		G
DnOAum	11971				1S-		G
DnOAum	11972				1SS		G
Don	9472	122S2F6S	122S- F0S	12S92F-0	12192F h	SF02	l l b
Don	9672	12 14F6-	1- S- 9F9	1- SSSF60	12h9SF2h	SFh2	l l b
Don	9072	12S- 0F62	12S 9F-h	1212hF11	12S 4FS4	SF-	l l b
Kr%&on	- 71						ql w
LesO	2S671	00FS4	09F92	04F6	09F04	1F9	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	My S. - 2	t AR&on:. sq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
LesO	2S071	0- F9h	0- F19	02F10	02Fh0	SFhh	l l b
LesO	2S 71	09F49	04F62	0- F9	04F99	1F26	l l b
LAEAum	671				h9		G
MsgnewAum	2472	1- 19F22	1- 99F66	1- - 9F- -	1- - 9F4S	1F91	l l b
Msngsnewe	9972	441F4	446F9S	442F0S	44- F96	SF9h	l l b
MoP%bOenum	h471	- F- 4	- F- S	- F19	- F26	- FS-	l l b
MoP%bOenum	h971	1F1	1FS-	SFh6	1FS6	1SF6S	l l b
MoP%bOenum	h671	1F- 6	1F2	1F- 2	1F- 2	2F00	l l b
MoP%bOenum	h071	1F2S	1FSh	1F11	1F1-	9F10	l l b
MoP%bOenum	h 71	1F14	1FS9	1FS4	1FS0	4Fhh	l l b
NeoO%mAum	19S71						ql w
NeoO%mAum	19S72						ql w
NAqkeP	6S72	0F -	F29	FSS	FS-	2F66	l l b
8 EowI Eoruw	- 172	062F9h	h- 2F9h	h14F- 2	6hF -	1SF0-	l l b
8 o&swwAum	- h72	1h SF12	2S26F 4	2S2hF 1	2S12F26	1F- h	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqsnOAum	4971				1S1		G
pqsnOAum	4972				h0		G
pe?enAum	271	SF29	SF4h	SF- 2	SF- 6	- 4Fhh	l l b
pe?enAum	0072	- SFS9	- 4F1	- 4F 2	- - FS2	0F 6	l l b
pe?enAum	0 72	0F- S	6F41	9FhS	6F94	1SFhS	l l b
pAAqon	2 71	10 F26	1 1F40	106F12	10 F62	1F91	l l b
pA?er	1S071	SF- 0	SF- 2	SF- 9	SF- 9	0F0S	l l b
pA?er	1Sh71	SF- 1	SF26	SF- 2	SF- S	1SF41	l l b
poOAum	2- 72	194FhS	196FS-	199F 2	199F9h	SF- h	l l b
p&on&Aum	671	91F0S	91F21	9SF1h	91FS-	1F91	l l b
p&on&Aum	71	9SF1h	9SF- 9	4hFh2	9SF19	SF4-	l l b
pu?ur	- 471	71622F24	719h F4-	716h0F69	716- hF44		l l b
i erbAum	19h71				1S9		G
i erbAum	19h72				1S1		G
i EsPAum	2S- 71	SF26	SF2-	SF24	SF29	9F- 1	l l b
i EsPAum	2S971	SF29	SF24	SF24	SF29	2F96	l l b
i An	11 71	2F- -	2F- S	2F46	2F- 6	- F69	l l b
i A&snAum	4071	h Fh	h Fh1	h6F26	h FS9	1F9	l l b
UrsnAum	2- 71	1F6S	1F9	1F99	1F9	1F64	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t Ro&on:. sq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	9172	22F69	22F6h	22F91	22F62	SF41	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				1S6		G
Y&&Aum	h72				1S2		G
ZAnq	6672	1- - F4S	1- F12	1- 2Fhh	1- 4F -	2F11	l l b
ZAqonAum	hS71	1F- 2	1F- -	1F20	1F- 1	2F2-	l l b
ZAqonAum	h171	1F26	1F2	1F- 2	1F2h	2F00	l l b

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	11- - SU1-	1194 U9S	110N2U11	1199- U 1	1U 6	DDe
q5Tb n5%	12171	SUJ	SUJ 9	SU4-	SUJ	1SUNN	DDe
qpwr 5cd	0972	12US1	1SU06	11U04	11U9S	9U09	DDe
Bspcmb	1- 971	240USN	290U49	296U62	29- U01	2U20	DDe
Bspcmb	1- 071	249U69	292U0	290U49	291U 6	2UJ 6	DDe
Br p%PPmb	71	2U11	2U14	2U1-	2U1-	SUN9	DDe
Bcvb mTE	2S 71				1S		G
Bcvb mTE	2S 72				1S-		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	1US-	1US1	1US4	1US2	1UJ 4	DDe
v sob cmb	1S671	7SUS0	72U41	71UNN	71U49		DDe
v sob cmb	11171	SUN0	SU6	SUN-	SUNS	11U00	DDe
v sPdcmb	4- 71	1S 14U9-	11S SU9-	11292U2-	11SN9U00	1U92	DDe
v sPdcmb	4471	1140- U2N	119N2U4S	110 NUSN	11610U 2	1U42	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpd5r	- 971						dDw
v EPmpd5r	- 972						dDw
v Epmb cmb	9272	19US	19U1	16U19	19U4N	- U00	DDe
v nesPT	9 72	11UJ 2	1SUNS	11U4	11U2S	- U2S	DDe
v nDDr p	6- 72	- 1UNN	- 2UJ 2	- - U 6	- 2U02	- UJ 9	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1SN		G
h nPb cmb	16972				1S-		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1SS		G
tpn5	9472	291S0U14	29640UJN	2611SUNS	29621U00	1U 6	DDe
tpn5	9672	2922SUJ 4	24N40U1N	264S6U1N	294 1U24	- U1	DDe
tpn5	9072	2- 422UJ 9	2- S16U61	246- NU0-	2- 6 2U96	- U96	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	64U4S	64UN6	69US1	64U09	SU4	DDe

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On:7/14/2023 8:48:56 AM
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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	61UJ 1	61U1	61U64	61UJ N	SUJ N	DDe
Lr so	2SN71	6- U1N	62U91	6- U20	62U	SU66	DDe
LdEcmb	671				0		G
y sM5r wcmb	2472	91- 4US4	9199U9S	9- 24U 9	92S4UN-	2US1	DDe
y s5Ms5r wr	9972	00SU94	000UJ 4	N19U46	0N0U0N	- US0	DDe
y nP%eor 5mb	471	9U90	9U9	9U90	9U9N	SU1	DDe
y nP%eor 5mb	971	1U1S	1U2-	1U21	1U1N	9U 4	DDe
y nP%eor 5mb	671	1U91	1U6	1U60	1U62	9U -	DDe
y nP%eor 5mb	071	1UJ 4	1U1S	1U2N	1U24	1SUS	DDe
y nP%eor 5mb	N71	1U1	1U14	1U2S	1U1N	2U9-	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	1 U12	1NJ 9	1 U04	1 US0	- U64	DDe
8 EnwDEnpmw	- 172	1269UN9	120SU	12 1U1S	1209U N	1US9	DDe
8 nTswwcmb	- 72	- 6N1UJ 2	- 660U22	- 000U6	- 0SNU04	1U62	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
I ds5ocmb	4971				1S6		G
I ds5ocmb	4972				0		G
I r P 5cmb	N271	SU0	SUN	1U90	1USN	- U26	DDe
I r P 5cmb	0072	4NU12	- 1UN0	46U1N	42US6	21U1S	DDe
I r P 5cmb	0N72	0U9-	NUN	NUJ S	NU24	NU20	DDe
I dcdn5	2N71	10NUS1	10- U49	1N4US2	10NU4	2U 0	DDe
I dgr p	1S071	SU1N	SU22	SU22	SU21	1SU12	DDe
I dgr p	1S 71	SU2S	SU21	SU22	SU21	4U40	DDe
I nocmb	2- 72	10SU 6	102U91	106UJ	10- U2	1U62	DDe
I Tpm5Tcmb	N671	0U6N	1SSUS2	NU6N	NUNS	1U1	DDe
I Tpm5Tcmb	NN71	1S- U4-	1S- U49	1S9U9-	1S4U14	1U16	DDe
I mPmp	- 471	71NN9U 4	710- SU14	716 2UN4	7106 U64		DDe
Ar pecmb	19 71				1SN		G
Ar pecmb	19 72				1S-		G
AEsPPcmb	2S- 71	SUJ -	SUJ 2	SUJ N	SUJ 4	U21	DDe
AEsPPcmb	2S971	SUJ 6	SUJ 2	SUJ 9	SUJ 4	6US-	DDe
Ad5	11N71	- U1 -	- U26	- U24	- U21	2US0	DDe
AdS5cmb	4071	1US9	2U -	2UN-	2U20	1U19	DDe
Rps5cmb	2- N71	2U N	- US9	- US9	- US2	1UJ S	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdP:u sb r :J	S90qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	- SUS6	2 UN9	- 1U6S	- SU91	- U1-	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				111		G
YTTpomb	N 72				1S6		G
Zd5d	6672	219U6	216U9	220U90	21 U9	- US1	DDe
Zqpdn5omb	S71	2U9N	2U64	2UN1	2U6N	4U26	DDe
Zqpdn5omb	171	2U69	2U9-	2U6	2U62	- U1	DDe

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LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RlAn&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	0hS2F24	0886FS-	0821F. 8	086hFh:	SF. 4	I I b
cn&Amon%	12171	SF04	SF8:	SF0h	SF0h	6F4:	I I b
crsenAq	0: 72	hFh4	hF0:	hF68	hF0h	1F- h	I I b
BarAum	1- : 71	266F- 2	260F60	260Fh4	260F- 1	SF- 2	I I b
BarAum	1- 071	201F02	20- F46	20SF81	202FSS	SF4h	I I b
Ber%lAum	h71	1F4:	1F- 2	1F4-	1F4S	: FS1	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	1F1-	1F10	SF8-	1FS4	18FS6	I I b
RaOmAum	1S671	71F8S	71F28	71F11	71F4S		I I b
RaOmAum	11171	SF. :	SF4h	SF. -	SF. 2	: F. :	I I b
RalqAum	4- 71	16: 0- F- S	1682hF26	10S0hF. -	16820F- 6	1F. S	I I b
RalqAum	4471	101S8F. -	104- 6F66	10012F82	1041hF- 4	1F04	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- : 71						ql s
RElorAne	- : 72						ql s
REromAum	: 272	- 4F- 0	- 4F0h	- 4Fh:	- 4F0S	SF88	I I b
Robal&	: h72	11F- :	11F44	11F18	11F- -	1F18	I I b
Rol I er	6- 72	- 1F08	- 1F1-	- 1F26	- 1F- h	1F1S	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S8		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S0		G
DnOAum	11: 72				1S-		G
Don	: 472	21- - 2F41	2121- F68	21S44F64	211h6Fh1	SF68	I I b
Don	: 672	2Sh14F22	2S04SF61	2S0- 6F82	2S0h0F22	SF4h	I I b
Don	: 072	1h: 26F. 4	1h181F02	1h482F. 6	1h- h6Fh4	SFh0	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	14SF1h	1- 8FS:	1- 4F. 1	1- 0F. 8	2FS8	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	12hF2S	128F. 0	124F86	120F. 4	1F84	I I b
LeaO	2S871	1- hF88	1- 0F- 8	1- 4F88	1- 0F- 8	1F82	I I b
LA&EAum	671				h0		G
MagnesAum	2472	- 812F26	- 0h4Fhh	- 8S: F1:	- 8S4F1-	SF2-	I I b
Manganese	: : 72	2Sh: Fh-	2S46Fh0	2S24F- 1	2S: : F0-	1F08	I I b
Mol%bOenum	h471	: F06	: F0-	: F04	: F0:	SF21	I I b
Mol%bOenum	h: 71	2F20	2FS-	2F2S	2F10	: F66	I I b
Mol%bOenum	h671	2F. 8	2F. 8	2F. 2	2F. 6	1F4:	I I b
Mol%bOenum	h071	2F16	2F1-	2F- S	2F2S	4F1S	I I b
Mol%bOenum	h871	2F28	2F20	2F- :	2F- S	1Fh2	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	10Fh:	18F21	18F- -	18F16	1FS8	I I b
PEosI Eorus	- 172	610F41	680FS0	6S4F68	6- 6F- h	6Fh0	I I b
Po&assAum	- h72	2S61F. :	2S- - FS4	2S: SF02	2S48F44	SF0S	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S:		G
pqanOAum	4: 71				1S0		G
pqanOAum	4: 72				1SS		G
pelenAum	8271	SF6S	SF42	SF08	SF6S	2hF- -	I I b
pelenAum	0072	- 6F28	2: F. 1	- 0F2-	- - FS1	1hF0-	I I b
pelenAum	0872	: F02	: Fh-	: F8S	: F82	1F08	I I b
pAAqon	2871	100F2h	108FSS	18- F2h	10hF. -	1F82	I I b
pAver	1S071	SF21	SF2:	SF24	SF2-	1SF20	I I b
pAver	1Sh71	SF2-	SF21	SF2-	SF22	: F42	I I b
poOAum	2- 72	26- Fhh	2: 8F2:	2: 1F80	2: 8FS4	2F- :	I I b
p&ona&um	8671	11- F82	11: FS2	114F- h	114F41	SF. -	I I b
p&ona&um	8871	11hF. 2	122F66	12SF11	12SF06	1F- 8	I I b
pulfur	- 471	721h- F64	71h: : F4:	71: h0FS-	71h1: F- 8		I I b
i erbAum	1: h71				1S8		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF26	SF24	SF24	SF2:	: F8:	I I b
i EallAum	2S: 71	SF26	SF28	SF24	SF26	0F18	I I b
i An	11871	4FS4	- Fhh	4FS6	4FS-	SF88	I I b
i A&anAum	4071	h1F40	h1F40	h2Fh:	h1Fh6	SFh-	I I b
UranAum	2- 871	1F02	1F6h	1F68	1F0S	1F1-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	: 172	2: F04	26F22	2: F28	2: F0:	1F82	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11S		G
Y&&Aum	8h72				112		G
ZAnq	6672	1- 4F2h	1- 2FS1	1- 1F4:	1- 2F. h	1F1-	I I b
ZAqonAum	hS71	2F2S	2F- 6	2F2h	2F28	- F60	I I b
ZAqonAum	h171	2F21	2F24	2F42	2F2h	: FS:	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	226- 1U51	22: - 1USS	25686U22	24545U01	16U44	I I b
c n&Amon%	12171	- 0U6-	41U66	42U-1	4SU-4	6U2:	I I b
c rsenAq	0: 72	0S1U68	6: SU-5	850U2S	045U82	10U-6	I I b
BarAum	1- : 71	1016U-:	1844U22	18: - U-:	18S4U64	4U24	I I b
BarAum	1- 071	101: U-6	1818U16	185: U6:	18S5U02	: USS	I I b
Ber%IAum	571	- U01	- U50	- U08	- U82	- U-S	I I b
BAsmu&E	2S571				112		G
BAsmu&E	2S572				50		G
BromAne	8171						ql s
v aOmAum	1S871	5U00	12U48	11U40	11U24	12U15	I I b
v aOmAum	1S671	5U84	8U66	5U5-	5U48	0U48	I I b
v aOmAum	11171	5U5S	1SU66	1SU5-	1SU-S	: U12	I I b
v alqAum	4- 71	- 4S21U66	- 0S: 6U54	- 6416U65	- : 8- 1U06	4U40	I I b
v alqAum	4471	- : 2S6U22	- 8SS1USS6	- 0466U--	- 6851U2S	4USS2	I I b
v arbon	1271						ql s
v arbon	1272						ql s
v ElorAne	- : 71						ql s
v ElorAne	- : 72						ql s
v EromAum	: 272	- 0U-S	- 8U8-	: 1U1S	42U48	10U6:	I I b
v obal&	: 572	22U00	2- U64	- SU64	2: U68	16U8S	I I b
v ol I er	6- 72	12: USS8	126U2-	16: U-1	1- 8U54	16U-0	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
. rbAum	16471						ql s
. rbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
h olmAum	16: 71				112		G
h olmAum	16: 72				56		G
DnOAum	11: 71				11S		G
DnOAum	11: 72				5-		G
Don	: 472	- 84- 0USS5	- 8- 0SU6-	: 1- 0- U6-	42020U12	10U--	I I b
Don	: 672	- 0525U84	- 8: 51U52	: S25: U1S	42202U25	16U4:	I I b
Don	: 072	- : : 0- U10	- 6211U-1	40564U5S	- 5516U--	10U48	I I b
Kr%I &on	8- 71						ql s
LeaO	2S671	6: 0U-5	65- U-2	015U5:	65SU-:	4U--	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	6: SU2	601U0	65- U2	601U81	- U2S	I I b
LeaO	2S871	66- U6-	651U84	0S5US-	688U10	- U-	I I b
LA&EAum	671				1S2		G
y aMhesAum	2472	11- 26U46	11458U82	14524US2	12: 8- U1S	16U1-	I I b
y anManese	: : 72	61S: U28	6245U18	822- U05	68: 5U42	10U26	I I b
y ol%bOenum	5471	04U5	81U8S	8SU8	08U86	4U55	I I b
y ol%bOenum	5: 71	46US4	: 1US0	: SU50	45U6	: U8-	I I b
y ol%bOenum	5671	45U05	: - U:	: 4U80	: 2U04	: USS	I I b
y ol%bOenum	5071	40U8S	: 1US5	: SU62	45U84	- U0	I I b
y ol%bOenum	5871	46U0	: SU02	: SU50	45U:	: U24	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	- : U25	- : U1	40U10	- 5U26	10U4:	I I b
PEosI Eorus	- 172	6448U4	66- 4U8S	8818U68	0- SSU60	18US:	I I b
Po&assAum	- 572	865- U2-	8685US:	1144- US	56S8U-	16U4	I I b
CEoOAum	1S- 71				1S8		G
CEoOAum	1S- 72				5:		G
pqanOAum	4: 71				111		G
pqanOAum	4: 72				5-		G
pelenAum	8271	SU44	SU28	1U16	SU6-	0: U06	I I b
pelenAum	0072	6: U5S	68US5	80U-	0- U00	1: U55	I I b
pelenAum	0872	14U66	14U84	2- U2S	10U0	20U06	I I b
pAAqon	2871	160U24	182U68	105U80	106U6S	4U66	I I b
pAger	1S071	11U20	12U5	12U8	12US1	: U6	I I b
pAger	1S571	11U00	12U4:	12U66	12U25	- U08	I I b
poOAum	2- 72	11S1U2	111- US	1: S1U4-	12- 8U82	18U6	I I b
p&ona&Aum	8671	42: U6S	40SU81	4: 6U0-	4: 1US4	: U1-	I I b
p&ona&Aum	8871	4- : U0:	404U6	466U5S	4: 5US0	4U48	I I b
pulfur	- 471	72S1SU08	71261U4	71- 42U5	71: - 8U24		I I b
i erbAum	1: 571				111		G
i erbAum	1: 572				5:		G
i EallAum	2S- 71	- US4	- US4	- U2:	- U11	- U54	I I b
i EallAum	2S: 71	2U5-	- U14	- U24	- U1S	: U1:	I I b
i An	11871	1U52	2U2-	2U20	2U14	8U00	I I b
i A&anAum	4071	4S- U6-	444U46	4- 5U1:	425US8	: U10	I I b
RranAum	2- 871	11U46	12U4-	12US	12US6	4U6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4467 21	Dns&umne&Name 9	P8
v lAn&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S07 12 1: 9269 14	t a&aFAe Name 9	S: 5c C. FUD

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	: 172	- 40U18	- : 6U61	464U60	- 85U45	16U06	I I b
Y&erbAum	1027 1						ql s
Y&erbAum	1027 2						ql s
Y&erbAum	1067 1						ql s
Y&erbAum	1067 2						ql s
Y&&Aum	857 1				118		G
Y&&Aum	857 2				1S1		G
ZAnq	667 2	1865U85	1512U26	2: 16U6:	2S55U6S	10U2-	I I b
ZAqonAum	5S7 1	2SU 5	22U6S	22U15	21U05	4U88	I I b
ZAqonAum	517 1	21U42	22U6:	22U45	22U15	- US2	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DPP t& 9	y h SF- 6	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdPP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2- - N: U4J	2- 1: JU0-	22J2: U6-	2- 1: 6UJ:	SUJJ	DDe
q5Tb n5%	12171	41U0-	- 0U21	41U-6	4SU10	6U-N	DDe
qpwr 5cd	0: 72	0- 2UJ0	0- : U4S	0- : USS6	0- 4U40	SU1N	DDe
Bspcmb	1- : 71	0- NUSN	6: JUSS6	0- : U00	01SUJ0	6U-2	DDe
Bspcmb	1- 071	0NNU22	0S2UN-	002U-:	0: 4U40	6USS2	DDe
Br p%PPmb	J71	4USS1	- U-S	- U06	- U06	6UNS	DDe
Bcvb mTE	2SJ71				1SJ		G
Bcvb mTE	2SJ72				1S-		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1- U-S	1SU24	12U2N	11UJ4	1- USS-	DDe
v sob cmb	1S671	NU2S	JU-4	1SUS0	JU20	1SU42	DDe
v sob cmb	11171	11U1J	1SU22	1SU46	1SU62	4U0-	DDe
v sPdcmb	4- 71	4- 662U-	- J4- : U2:	420S: U60	41J- 4U42	: U2J	DDe
v sPdcmb	4471	4460SU4-	4S4N6U-2	440N1U16	4- - 12U64	: U6:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- : 71						dDw
v EPhpc5r	- : 72						dDw
v Epmb cmb	: 272	- SUNJ	- SU-0	- SU-4	- SU6S	SUJS	DDe
v nesPT	: J72	22U-0	22U2J	22U2:	22U-1	SU20	DDe
v nDDr p	6- 72	1: NU6S	1: 6U1S	1: 0UJ-	1: 0U-4	SUN2	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				11S		G
h nPb cmb	16: 72				1S:		G
t5ocmb	11: 71				1SN		G
t5ocmb	11: 72				JN		G
tpn5	: 472	- 0140USS6	- 02S- UN-	- 62: JUNN	- 6N0SU26	1U44	DDe
tpn5	: 672	- 6- 66U44	- 61- 1UNN	- : 6: 4U-4	- 6S: SUJ:	1USS1	DDe
tpn5	: 072	- 42: 2U1S	- - 0J4U4:	- - 02NU-	- - J2: USS-	SUN4	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	6- NU1-	: : 1U66	6S4U-N	: JNU12	0U2J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	610U6	: 46US2	: J2U42	: N: U20	6U1J	DDe
Lr so	2SN71	620UJS	: 4JUJJ	6S2UJ	: J- U4-	6U6J	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	J60SU6:	J64- U2J	JN61UJ0	J02: UJS	1U2-	DDe
y s5Ms5r wr	: : 72	6440UNt	6- - : UJ:	62NSU20	6- : 4U6J	1UJ4	DDe
y nP%eor 5mb	J471	N6UJJ	06UJJ	N2U24	N1UN0	: U0:	DDe
y nP%eor 5mb	J: 71	: NUJ2	: 2U14	: 4UN2	: : U16	: UNS	DDe
y nP%eor 5mb	J671	61U6N	: 4U42	: NU6S	: NU2-	6U26	DDe
y nP%eor 5mb	J071	: NU6N	: - U4:	: 4UNt	: : U66	4UN0	DDe
y nP%eor 5mb	JN71	: NU0:	: - U1-	: : U44	: : U00	: US6	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	- 6U0:	- : UJ2	- 6UJ-	- 6UJ-	1U1:	DDe
8 EnwDEnpmw	- 172	: : 1: U2:	: : N: U2-	: 4: SUS4	: : 16UN4	1U2-	DDe
8 nTswwcmb	- J72	NNJ4U46	JSS0U44	NN2NUSS	NJSJUJ0	1US2	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
l ds5ocmb	4: 71				1SN		G
l ds5ocmb	4: 72				JJ		G
l r P 5cmb	N271	SUJS	SU6N	1US1	SUN6	1JU2N	DDe
l r P 5cmb	0072	: 0UJ4	: 1U21	: JUJ1	: 6U22	0UN4	DDe
l r P 5cmb	0N72	1- U21	16U0J	12U6-	14U21	1: UNN	DDe
l dcdn5	2N71	1J: UN2	10: U2-	1J1U1N	1N0U41	: U06	DDe
l dgr p	1S071	12USJ	1SU6-	11U4J	11U4S	6U4:	DDe
l dgr p	1SJ71	11UJ0	1SUJ:	11UJ0	11UJS	4U40	DDe
l nocmb	2- 72	1SS0UN1	1SS4U26	1SS1US0	1SS4UJN	SUJ4	DDe
l Tpn5Tcmb	N671	: : JUJ6	4NNU60	: - SU1-	: 26U26	6UNS	DDe
l Tpn5Tcmb	NN71	: 6- UJ-	: SJU66	: - NU02	: - 0U24	: USS	DDe
l mPmp	- 471	0142USN	: - 06U42	0S66U40	6: 2NUJ2	1: U2J	DDe
Ar pecmb	1: J71				1SJ		G
Ar pecmb	1: J72				1S4		G
AEs Pbmb	2S- 71	2UN1	2U44	2UJ0	2U61	0U2:	DDe
AEs Pbmb	2S: 71	2UN1	2U4S	2U0-	2U64	NU2J	DDe
Ad5	11N71	2USN	2U1J	2U11	2U1-	2U0-	DDe
AdS5cmb	4071	- 00UN6	- - : UJJ	- 60U4N	- 6SU24	6U1:	DDe
Rps5cmb	2- N71	1- US1	11U1:	12UJ-	12U16	0U06	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Rt 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	- 1- UJ0	- 16U60	- 12UN0	- 14U S	SU62	DDe
YTTr pe omb	10271						dDw
YTTr pe omb	10272						dDw
YTTr pe omb	10671						dDw
YTTr pe omb	10672						dDw
YTTpomb	NJ71				114		G
YTTpomb	NJ72				1S4		G
Zc5d	6672	1N- 2U J	1N- 4UJ-	10J- U66	1N2SU4S	1U20	DDe
Zqpdn5omb	JS71	21U0:	1JU11	21U26	2SU01	6UNS	DDe
Zqpdn5omb	J171	22U44	1JU2N	21U2J	21U$S	0U J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UndTw
Pmb cncmb	2072	1- h6hFN-	1- N90F2h	1- 022FSS	1- N4hF01	SFhS	DDe
nTb on%	12171	SF09	SF06	SF0h	SF06	2F0N	DDe
pwr ncq	0972	N2FS2	N9F11	N6F46	N4F9-	2F6h	DDe
Bspcmb	1- 971	- 04F99	- N1F6S	- N- F49	- 0hFN0	1F24	DDe
Bspcmb	1- 071	- 0NF6-	- 0NFh1	- N4F4-	- NSF66	SFN6	DDe
Br p%PPmb	h71	1F69	1F6N	1F69	1F66	1F2N	DDe
Bcwb mTE	2Sh71				1S0		G
Bcwb mTE	2Sh72				1S9		G
Bpob cnr	N171						qDw
RsCb cmb	1SN71	1Fh6	1Fh4	2F1N	2FS2	6F6S	DDe
RsCb cmb	1S671	SF96	7- FS9	71FS2	71F10		DDe
RsCb cmb	11171	1F9-	1F- 9	1F- h	1F42	6F61	DDe
RsPqcmb	4- 71	1N- 1- F04	1N244Fh9	1N24- F- 6	1N260F- 9	SF22	DDe
RsPqcmb	4471	1h1- 4FNS	1hSS- F9S	1NN46F2S	1Nhh4FN-	SF06	DDe
Rspeon	1271						qDw
Rspeon	1272						qDw
REPpcnr	- 971						qDw
REPpcnr	- 972						qDw
REpob cmb	9272	22F91	22F49	22FS0	22F- 4	1FS0	DDe
RoesFT	9h72	16Fh1	10F94	16FN0	10F1S	2F1h	DDe
RoDDr p	6- 72	09F92	04FN6	04Fh2	09F1S	SF4N	DDe
&%wDpowcmb	19671						qDw
&%wDpowcmb	19672						qDw
Cpecmb	16471						qDw
Cpecmb	16472						qDw
HsCbPhcmb	16S71						qDw
HsCbPhcmb	16S72						qDw
y oPb cmb	16971				1Sh		G
y oPb cmb	16972				1S4		G
tnOcmb	11971				1S6		G
tnOcmb	11972				hh		G
tpon	9472	42NS6F21	42hS6FN9	4- S62F42	42h29F16	SF- S	DDe
tpon	9672	4264NF9N	42- 1SFNh	41N6NF02	42206FS6	SFh-	DDe
tpon	9072	42916FNN	42hN2F16	4199NF6N	42- 92F9N	1F01	DDe
Kp%DTon	N- 71						qDw
Lr sO	2S671	NhF91	N6F0h	N0Fh6	NNFSN	1F99	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTop.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 4467S1	tnwTpmb nr T.u sb r :J	8 N
RPr nTI sb DPP:t&:.J	My S. S2	&dPmTon:. sqTop.J	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF.RonqF	Ronq5 I &	UndTw
Lr sO	2S071	N9F92	N2FN2	N- FNh	N4FSN	1F62	DDe
Lr sO	2SN71	N6F4N	N4F9-	N0FS4	N6FS2	1F94	DDe
LdEomb	671				hh		G
Msgnr womb	2472	69h1FN6	6091FhS	66N9F46	6606F41	1F2S	DDe
Msngsnr wr	9972	hh6F6S	1SS1F6N	hh4F9-	hh0F6S	SF- 0	DDe
MoP%eOr nnmb	h471	12FS9	11FNh	11Fh6	11Fh0	SF66	DDe
MoP%eOr nnmb	h971	1FN6	1FNS	1F6-	1F06	6FN2	DDe
MoP%eOr nnmb	h671	2Fh1	2F06	2FN1	2FN-	2F6-	DDe
MoP%eOr nnmb	h071	1F6-	1F6N	1F01	1F60	2F29	DDe
MoP%eOr nnmb	hN71	1F04	1F0h	1F00	1F00	1F4S	DDe
u r oO%b omb	19S71						qDw
u r oO%b omb	19S72						qDw
u oqkr P	6S72	- - F24	- - F- h	- - F14	- - F26	SF- 0	DDe
8 EowDEopmw	- 172	- 62SFN-	- 4- 1F96	- - 4NF29	- 466FNN	4FS-	DDe
8 oTswwomb	- h72	92SNF- h	9- 91Fhh	9210F20	929hF22	1F9-	DDe
5 EoOomb	1S- 71				1S6		G
5 EoOomb	1S- 72				1S-		G
I qsnOomb	4971				1SN		G
I qsnOomb	4972				hh		G
I r PnomB	N271	1Fh2	1F96	1F69	1F01	11FS0	DDe
I r PnomB	0072	- 0F- -	4SF06	2hF94	- 9FNN	16FS2	DDe
I r PnomB	0N72	NFN2	6F06	1SF6h	NF06	22F4h	DDe
I dRqon	2N71	290F- 1	29- F0-	24SF- 2	29SF46	- F9N	DDe
I dPr p	1S071	SF- 6	SF4S	SF- 0	SF- N	9F6N	DDe
I dPr p	1Sh71	SF- h	SF- N	SF- 9	SF- 0	9FhS	DDe
I oOomb	2- 72	1hNF60	1h4F4h	1hhF02	1h0F6-	1F4S	DDe
I TponTomb	N671	162F6S	169F11	162FSh	16- F20	SFhh	DDe
I TponTomb	NN71	16NFh-	101F06	16hF20	16hFhN	SFh1	DDe
I mPmp	- 471	7h0NF4S	712N2F1N	71- 2SFNN	711h- FN2		DDe
Ar peomb	19h71				11S		G
Ar peomb	19h72				1S-		G
AEsRPmb	2S- 71	SF- 6	SF- 9	SF- 6	SF- 9	2F10	DDe
AEsRPmb	2S971	SF- 1	SF- 1	SF- 2	SF- 1	SF6S	DDe
Aon	11N71	1F46	1F94	1F91	1F9S	2F96	DDe
AdSnomb	4071	11hF46	110F- 0	119F4h	110F44	1F6h	DDe
Upsnomb	2- N71	- F- 4	- F20	- F- 9	- F- 2	1F20	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 sspsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UncTw
VsnsOomb	9172	9hF96	9NFh1	9hF9-	9hF- -	SF62	DDe
YTTr peomb	10271						qDw
YTTr peomb	10272						qDw
YTTr peomb	10671						qDw
YTTr peomb	10672						qDw
YTTpomb	Nh71				11-		G
YTTpomb	Nh72				1SN		G
Zonq	6672	- 2- FS2	- 1hFS6	- 10F06	- 1hFh4	SFN6	DDe
Zqpqonomb	hS71	9Fh1	9FN2	9Fh-	9FNh	SFh0	DDe
Zqpqonomb	h171	9FN6	6F44	6FS-	6F11	4FN6	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WJA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
c&umA5Aum	20:2	1F7a	1F52	1F 1	1F47	71F71	l l b
c5&Amn5h	121:1	SF51	SF51	SF5S	SF51	4aF26	l l b
crl e5Aq	0-:2	SF52	SF57	SF52	SF52	27Fa	l l b
BwrAum	17-:1	SF1S	SF51	SF54	SF5-	a0F60	l l b
BwrAum	170:1	SF17	SF52	SF51	SF56	121F-6	l l b
Berh&Aum	:1	SF52	SF52	SF51	SF52	74F1a	l l b
BAmu&%	2S :1				1S-		E
BAmu&%	2S :2				1S2		E
BrnmA5e	a1:1						ql l
CwOmAum	1Sa:1	:SF1S	:SF1S	:SF52	:SF50		l l b
CwOmAum	1S6:1	:6F22	:0Fa7	:6F2-	:6F00		l l b
CwOmAum	111:1	:SF54	:SF5-	:SF5-	:SF5-		l l b
Cw&qAum	47:1	2F 4	1F56	:SF1S	1F7S	110F 6	l l b
Cw&qAum	44:1	10F51	12F66	1-F2-	14F 0	14F64	l l b
Cwrbn5	12:1						ql l
Cwrbn5	12:2						ql l
C%&nrA5e	7-:1						ql l
C%&nrA5e	7-:2						ql l
C%nnmAum	-2:2	SF57	:SF57	SF12	SF54	1a-F0	l l b
Cnbw&&	- :2	SF5S	SF5S	SF5S	SF5S		l l b
CnI l er	67:2	SF26	SF1-	SF22	SF21	26F -	l l b
t hl l rnl Aum	1-6:1						ql l
t hl l rnl Aum	1-6:2						ql l
. rbAum	164:1						ql l
. rbAum	164:2						ql l
GwOn&5Aum	16S:1						ql l
GwOn&5Aum	16S:2						ql l
Hn&nAum	16-:1				1S4		E
Hn&nAum	16-:2				1S4		E
D5OAum	11-:1				1S4		E
D5OAum	11-:2				1SS		E
Dn5	-4:2	1Fa-	2F7-	1F5S	1F07	7 F22	l l b
Dn5	-6:2	SF0a	2F7a	1F4S	1F-2	-7F5S	l l b
Dn5	-0:2	:SF50	7F51	2F14	1F6	4F57	l l b
Krhl &n5	a7:1						ql l
LewO	2S6:1	SF17	SF5a	SF5a	SF1S	2aF6a	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw8ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8&e5&pwml &e9D 9J9	3Bp 21	t A&u8&n59Jwq8ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WJA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
LewO	2S0:1	SF14	SF5	SF5	SF11	27F16	I I b
LewO	2Sa:1	SF12	SF5a	SF5	SF1S	27F46	I I b
LA&%Aum	6:1				-		E
y wW5el Aum	24:2	SF- -	1F-4	SFa	SF	- 1F5	I I b
y w5Mw5el e	- - :2	SF11	SF16	SF40	SF2-	0aF0a	I I b
y n8nbOe5um	4:1	SF56	SF5-	SF5S	SF54	a4F06	I I b
y n8nbOe5um	- :1	SF52	SF52	SF57	SF52	7- F26	I I b
y n8nbOe5um	6:1	SF56	SF52	SF51	SF57	00F4S	I I b
y n8nbOe5um	0:1	SF57	SF52	SF5S	SF52	1S4F-4	I I b
y n8nbOe5um	a:1	SF52	SF51	SF51	SF51	0SFaa	I I b
NenOhmAum	1- S:1						ql l
NenOhmAum	1- S:2						ql l
NAqke8	6S:2	:SF52	SF52	SF51	SF5S	1S- 6F2S	I I b
3%nl l %nrul	71:2	:0SF7-	:4 F- -	:71Fa6	:- SF-		I I b
3n&wl l Aum	7 :2	:SF60	:6F44	7F52	:1F76		I I b
v %nOAum	1S7:1				1S7		E
v %nOAum	1S7:2				1S4		E
pqw5OAum	4- :1				1S2		E
pqw5OAum	4- :2				6		E
pe&e5Aum	a2:1	:SF10	:SF27	:SF14	:SF1a		I I b
pe&e5Aum	00:2	1F S	:SF7a	:SF7a	SF7a	744F50	I I b
pe&e5Aum	0a:2	SF5	:SF1-	SF62	SF1	21SF0S	I I b
pA&qn5	2a:1	SF5S	:SF12	SF5S	:SF54		I I b
pA&ger	1S0:1	SF51	SF51	SF51	SF51	40F74	I I b
pA&ger	1S :1	SF52	SF52	SF51	SF52	7SF4	I I b
pnOAum	27:2	F64	0F7S	F41	aF0a	14F0S	I I b
p&n5&Aum	a6:1	SF50	SF50	SF1S	SF5a	21F12	I I b
p&n5&Aum	aa:1	SF5	SF54	SF57	SF5-	- 1F S	I I b
pu&ur	74:1	:270SFaa	:22 6F54	:2S42F-	:2276F-S		I I b
i erbAum	1- :1				1S4		E
i erbAum	1- :2				1S7		E
i %w8Aum	2S7:1	SF54	SF56	SF56	SF5-	24F2-	I I b
i %w8Aum	2S- :1	SF5-	SF54	SF5-	SF5-	12F	I I b
i A5	11a:1	:SF57	SF5S	SF5S	:SF51		I I b
i A&w5Aum	40:1	:SF54	:SF5-	:SF52	:SF54		I I b
Rrw5Aum	27a:1	SF5S	SF5S	SF5S	SF5S	144F07	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw8ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8Ae5&pwml &e9D 9J9	3Bp 21	t A&u&Ah59Uwq8ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
Vw5wOAum	-1:2	SF5S1	SF5S2	SF5S1	SF5S1	41F10	l l b
Y&erbAum	102:1						ql l
Y&erbAum	102:2						ql l
Y&erbAum	106:1						ql l
Y&erbAum	106:2						ql l
Y&&Aum	a :1				1S1		E
Y&&Aum	a :2				1S4		E
ZA5q	66:2	:SF5S0	SF12	SF1S	SF5-	222F66	l l b
ZAqn5Aum	S:1	SF5S1	:SF5S1	:SF5S2	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S7	SF5SS	:SF5S1	:SF5S1		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WUA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	72F-2	7-F--	77F6S	77FN	4F-2	l l e
c5&b n5h	12191	7FS0	7F1S	7F17	7F1S	SF 1	l l e
cpl r 5Aq	0-92	1F01	1F00	1FN	1F0	-F12	l l e
BwpAmb	17-91	1-F 1	1-F6	1-F7S	1-F67	1F 6	l l e
BwpAmb	17091	1-F20	1-F2	1-F7	1-F72	SF4S	l l e
Br ph8Amb	91	1F66	1F-4	1F-N	1F-	4FS0	l l e
BAb m8%	2S 91				1S7		E
BAb m8%	2S 92				1S7		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F77	1F-4	1F17	1F77	1-F67	l l e
CwCb Amb	1S691	92F74	94F74	92F71	97FSS		l l e
CwCb Amb	11191	1FNN	1F6-	1F61	1F02	NF--	l l e
Cw&pAmb	4791	00NF10	6 6F41	6 -F46	027F74	6F-6	l l e
Cw&pAmb	4491	0NNF66	0SSF-0	01NFN	076FS4	6F72	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	7F76	7F40	7F16	7F77	4F0	l l e
Cnew&&	- 92	1F0S	1F0	1F6	1F07	7F2-	l l e
CnI l r p	6792	7F-7	7FN6	7F62	7F60	4F-0	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8A5Amb	16S91						ql l
GwOn8A5Amb	16S92						ql l
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S4		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S1		E
Dpn5	-492	722F---	776F0N	77SF 6	77SF1S	2F10	l l e
Dpn5	-692	777F62	742F10	771F4N	77-F06	1F6	l l e
Dpn5	-092	71 F1-	77-F 1	724F4N	726F-1	2F62	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F-0	1F-S	1F-7	1F-7	2F2-	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ A8 r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&wUA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-N	1F-S	1F-N	4F-	I l e
Lr wO	2SN91	1F67	1F-2	1F-S	1F-	4F20	I l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N-1F S	S6F5-	N6SFN-	N02F 7	7F77	I l e
y w5Mw5r l r	- - 92	1F64	1F04	1F62	1F60	7F S	I l e
y n8neOr 5mb	491	F22	NF6	NF1	NF0S	- F 6	I l e
y n8neOr 5mb	- 91	0FN7	0F1S	0F7S	0F41	- F5	I l e
y n8neOr 5mb	691	0F S	0F56	0F4N	0F4N	- F-0	I l e
y n8neOr 5mb	091	NF17	0F21	0F52	0F4-	0F -	I l e
y n8neOr 5mb	N91	0F67	0F22	0F2S	0F7-	7F7-	I l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1F 0	1FN2	1F 1	4F46	I l e
3 %nl l %npm	7192	914F-4	9-NF27	9-6FN7	947F2S		I l e
3 n&w l Amb	7 92	N11F17	N4NFS6	NS-F00	N21F6-	2FNS	I l e
v %nOAmb	1S791				1SS		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4-91				1S1		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F42	NF07	0F--	0F S	F1-	I l e
: r 8 5Amb	0092	NF12	1SF51	FN-	F77	11F24	I l e
: r 8 5Amb	0N92	0F4S	F52	0F 1	NF11	1SF2S	I l e
: A8qn5	2N91	1F77	SFN7	SF 4	1F57	2-F24	I l e
: A8gr p	1S091	1F60	1F-	1F-S	1F-	- F74	I l e
: A8gr p	1S 91	1F62	1F-6	1F6S	1F-	1FN-	I l e
: nOAmb	2792	N77F-	NN7FN-	N16F16	N44F-4	4F16	I l e
: 8qn5&Amb	N691	1F60	1F-0	1F-7	1F-	4F-7	I l e
: 8qn5&Amb	NN91	1F60	1F-4	1F-1	1F-0	- F21	I l e
: m8mp	7491	91266FSS	922N-F-	91 61F-0	91N70F02		I l e
i r peAmb	1- 91				1S4		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F-6	1F40	1F-S	1F-1	2F 0	I l e
i %w8Amb	2S-91	1F-0	1F-1	1F-6	1F-	2F50	I l e
i A5	11N91	SF5S	SF52	SF57	SF52	N2F4S	I l e
i A&w5Amb	4091	NF-4	0F7-	0F5N	0F66	1SF12	I l e
Rpw5Amb	27N91	1F-S	1F7-	1F70	1F41	- F0N	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 21	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WJA8 Ju wb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF-N	NF4	NF-2	NF-7	SF-2	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	NF66	NFSN	NF4	NF41	7F-	l l e
ZAqn5Amb	S91	1F-4	1F4-	1F41	1F40	4F04	l l e
ZAqn5Amb	191	1F6	1F70	1F4N	1F-1	1SF-4	l l e

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 944946	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1h26: F1S	1h- 0: F46	1hSh4F2S	1h244Fh2	SF04	l l b
c n&Amon%	12171	SF- 8	SF42	SF42	SF41	4F0:	l l b
c rsenAq	0: 72	18F0-	1hFS:	18F6:	18FB1	1F1-	l l b
BarAum	1- : 71	- : 1F6S	- 08F08	412F66	- 81FS1	8FS-	l l b
BarAum	1- 071	- 6: FB2	- 8SF66	410F0h	- 88FSh	6FhS	l l b
Ber%lAum	h71	1F16	1F28	1F- 0	1F20	8F. 4	l l b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F16	SF0:	SFh:	SFh:	21F68	l l b
RaOmAum	1S671	7- F28	74FS1	7SF01	72F60		l l b
RaOmAum	11171	SFB1	SF06	SFB:	SFB1	: F. 1	l l b
RalqAum	4- 71	- hS0SF08	42S- SFh1	4: - S1F01	421- 4F46	0F4S	l l b
RalqAum	4471	- h82hFB1	4- 164F00	46ShSFS0	4- S28F21	0F28	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- : 71						ql s
RElorAne	- : 72						ql s
REromAum	: 272	2- Fh1	22FBS	2- F11	2- F20	2F46	l l b
Robal&	: h72	1- F4S	1- F. :	1- F0h	1- F. 8	1F40	l l b
Rol l er	6- 72	- 2F. -	- 2Fh6	- 2F24	- 2F. 0	1F11	l l b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S4		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	- 6126F1h	- 06S1Fh6	- 6242F1:	- 66: 6F00	2F24	l l b
Don	: 672	- 6: 00F0S	- 062hF- 6	- : h10FSS	- 60S8FS2	2F- :	l l b
Don	: 072	- 44S6F6:	- 4612F68	- 4146FB0	- 4- 88F0-	SF68	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	: 1F0:	: : F60	: hF0h	: : F04	0F21	l l b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	4hFS6	: 2F62	: 6F0:	: 2FB1	0F2h	I I b
LeaO	2S871	: SF4-	: 4FS-	: 8F0-	: 4F4S	0F64	I I b
LA&EAum	671				1SS		G
MagnesAum	2472	1: 626F2:	1: 88: F46	1: h6- F21	1: 824Fh0	1F11	I I b
Manganese	: : 72	60- F06	682Fh1	66hF4-	60: F- 0	1FS2	I I b
Mol%bOenum	h471	4F0:	: F40	: F62	: F28	8F08	I I b
Mol%bOenum	h: 71	1F4h	1F6S	1FBS	1F6-	hF4h	I I b
Mol%bOenum	h671	1F00	2F1S	2F1:	2FS1	1SF42	I I b
Mol%bOenum	h071	1F. 1	1F66	1F66	1F61	: F- :	I I b
Mol%bOenum	h871	1F46	1F62	1FB6	1F6:	12FSh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	20F- 0	28FSS	20F- 1	20F. 6	1F- h	I I b
PEosI Eorus	- 172	1h8- F04	2Sh2F40	1hh0F- 0	2S24F. 2	2Fh-	I I b
Po&assAum	- h72	624hF21	62- 2FhS	6264F62	6248Fh1	SF2:	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S1		G
pqanOAum	4: 71				1Sh		G
pqanOAum	4: 72				h8		G
pelenAum	8271	SF- h	SF. 8	SFh4	SF64	44F1:	I I b
pelenAum	0072	2SF10	2: F4S	- : F. 2	20FS-	28FB8	I I b
pelenAum	0872	0F48	0F- S	4FB2	6F. -	22FB2	I I b
pAAqon	2871	21: FB1	2- 2F- S	2: 1F20	2- - F1-	0F61	I I b
pAver	1S071	SF- 1	SF24	SF20	SF28	1- F20	I I b
pAver	1Sh71	SF2h	SF2h	SF- :	SF- 1	11F00	I I b
poOAum	2- 72	4: 1FB8	40- F1h	466F1:	46- F04	2F- 4	I I b
p&ona&um	8671	- - 2F28	- 0- F- h	- 8- F1S	- 62Fh2	0F4-	I I b
p&ona&um	8871	- 41FS1	- 8SF1h	- 8hF- 0	- 0SF1h	6Fh4	I I b
pulfur	- 471	72S6hF- 0	7144hFB2	78S1F62	7144SF20		I I b
i erbAum	1: h71				112		G
i erbAum	1: h72				1S:		G
i EallAum	2S- 71	SF- 6	SF42	SF4S	SF4S	0F08	I I b
i EallAum	2S: 71	SF4S	SF4S	SF44	SF41	: FB4	I I b
i An	11871	1FS6	1F16	1F- -	1F1h	11F40	I I b
i A&anAum	4071	8hF28	h0FB-	1S1F- S	h6F14	6F4-	I I b
UranAum	2- 871	2FS0	2F1-	2F- 4	2F18	6F68	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: : F- S	: : Fn:	: : F20	: : F. 1	SF68	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11-		G
Y&&Aum	8h72				1S6		G
ZAnq	6672	168F0-	101FS1	164F. 8	168F11	1Fn4	l l b
ZAqonAum	hS71	2FS1	2F- h	2F44	2F28	1SF28	l l b
ZAqonAum	h171	2FS6	2F- 0	2F. -	2F- 2	1SF- S	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1624SF0-	1: 064FSS	1: 62: F00	1: 806F8-	2FS-	I I b
cn&Amonh	12171	SF= 4	SF4:	SF= %	SF= %	1- F2%	I I b
crsenAq	0: 72	21F28	21F88	2SF4%	21F22	- F28	I I b
BarAum	1- : 71	- 16F2S	- 6- F6S	- 26F68	- - : F4%	0F42	I I b
BarAum	1- 071	- 18F. 4	- 64F8%	- - %F06	- 41FS0	6F8S	I I b
BerhlIAum	%71	1FS-	1F22	1FS2	1FS%	1SF6%	I I b
BAsmu&E	2S%71				1S-		G
BAsmu&E	2S%72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	SF0%	1FS2	SF04	SF8:	10F41	I I b
RaOmAum	1S671	72F%6	7SF2S	1FS4	7SF01		I I b
RaOmAum	11171	SF08	SF8:	SF06	SF8S	6F= -	I I b
RalqAum	4- 71	- 6S: %F64	4S248F= %	- 6002F8%	- 06% F64	: F%	I I b
RalqAum	4471	- 6: 80FS:	41%%%F1-	- 6%6%F0%	- 8: 18F66	0F84	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1%F: %	1%F: 0	1%F: 4	1%F: 0	SF1:	I I b
Robal&	: %72	12F08	12F%8	12F62	12F0%	1F= 8	I I b
RoI I er	6- 72	20F88	20F: 4	20F6-	20F68	SF6-	I I b
t hsI rosAum	1: 671						ql s
t hsI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S:		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S-		G
DnOAum	11: 72				1SS		G
Don	: 472	- - : 01F01	- - 264F= 4	- 28: SF06	- - 228F%4	1FS%	I I b
Don	: 672	- - 1: 8F88	- 26%4F%	- 2: 04F24	- 28S%F= 6	SF%4	I I b
Don	: 072	- 1126F86	- 111- F41	- S1% F: %	- S811F28	1F04	I I b
Krhl &on	8- 71						ql s
LeaO	2S671	48F68	: 2F%d	: 1F= 2	: SF%0	4F2S	I I b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	46F0%	: 1F86	4%F- %	4%F- :	: F14	I I b
LeaO	2S871	40F6%	: 2P%0	4%F- %	: SF52	: F- %	I I b
LA&EAum	671				%		G
MagnesAum	2472	122S2F02	1186- F4%	116- - F40	118%%F8%	2F41	I I b
Manganese	: : 72	6S8P%2	: %%P%6	: %6F24	6S1F01	1FS8	I I b
MolhbOenum	%471	4F66	: F- S	: FS-	: FSS	6F- 0	I I b
MolhbOenum	% 71	1F. 1	1F0-	1F6-	1F62	6F01	I I b
MolhbOenum	%671	1F88	2FS8	1P%6	1P%0	4P%4	I I b
MolhbOenum	%071	1F. -	1F82	1F. 8	1F64	%F64	I I b
MolhbOenum	%871	1F40	1F6%	1F. 6	1F. 0	6P%	I I b
NeoChmAum	1: S71						ql s
NeoChmAum	1: S72						ql s
NAqkel	6S72	20F41	26FS2	26F1S	26F. 1	2P%4	I I b
PEosI Eorus	- 172	148SF14	12%%F11	1- 0- F46	1- 84F24	6F. 0	I I b
Po&assAum	- %72	484: F22	460SF- 2	40- 0FS2	40: SF8:	1F86	I I b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4: 71				1S-		G
pqanOAum	4: 72				%%		G
pelenAum	8271	SF00	SP%	SP%.	SF88	1SP%8	I I b
pelenAum	0072	28F80	- %F41	- 1F- 1	- - F1%	16F62	I I b
pelenAum	0872	0F18	: F14	: F40	: P%.	18F40	I I b
pAAqon	2871	224FS6	248F44	242F1-	2- 8F21	: F- 1	I I b
pAver	1S071	SF28	SF- 2	SF20	SF2%	%P%%	I I b
pAver	1S%71	SF- 1	SF- 4	SF- S	SF- 2	0F0S	I I b
poOAum	2- 72	442F4-	4- 2FS%	428F44	4- 4F- 2	1F60	I I b
p&on&Aum	8671	2%0F41	- 22FS0	- S- F64	- S0F01	4F10	I I b
p&on&Aum	8871	- S2F1-	- - 4F42	- 16FS0	- 10F. 4	: F1S	I I b
pulfur	- 471	71440F21	7- 0: F26	712: - F- 2	71S2: F26		I I b
i erbAum	1: %71				1S6		G
i erbAum	1: %72				1S4		G
i EallAum	2S- 71	SF- 1	SF- -	SF- 0	SF- 4	8F10	I I b
i EallAum	2S: 71	SF- -	SF- :	SF- :	SF- :	2F86	I I b
i An	11871	SP%1	1FS%	1F- 4	1F11	1%F18	I I b
i A&anAum	4071	06F- 0	8- FS8	0: F60	08F- 0	: F22	I I b
UranAum	2- 871	1F08	1P%8	1F80	1F88	: F- S	I I b

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LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: SF%	: 2F2:	: SF%0	: 1F- 8	1F46	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				1S0		G
Y&&Aum	8%72				1S6		G
ZAnq	6672	1- 0F88	1- SF4:	1- : F%%	1- 4F00	2F80	l l b
ZAqonAum	%S71	1F%%	2F2S	1F%	2FS:	6F: S	l l b
ZAqonAum	%171	1F%8	2F2S	1F88	2FS2	0F%4	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18h: - F- h	1818: F2:	10: 1SFh:	18216F. -	- Fh6	I I b
c n&Amon%	12171	SF- S	SF- 4	SF- 1	SF- 2	: F04	I I b
c rsenAq	0: 72	16F22	1: F26	1: F- 4	1: F61	- F41	I I b
BarAum	1- : 71	: 04F46	: 61F. :	: 6: F8h	: 60F- S	1F16	I I b
BarAum	1- 071	: 8hF. 1	: 0- F. S	: 6hF12	: 00F- 0	1F86	I I b
Ber%lAum	h71	: F1 S	4Fh2	4Fh:	4Fhh	1Fh2	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	1F60	1F- 6	1FhS	1F64	16F4:	I I b
RaOmAum	1S671	: F20	6F- 4	- F. :	: FS:	20Fh-	I I b
RaOmAum	11171	1F4S	1F41	1F4-	1F41	1F1h	I I b
RalqAum	4- 71	12060F68	1- S00F80	120- 8F28	12861F28	1F46	I I b
RalqAum	4471	1- : 82F- h	1- 2: 6F6S	1- - : 1F. S	1- - h6F8-	1F2:	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1: F2-	14Fh0	14F44	14F88	2F0S	I I b
Robal&	: h72	1- F. 8	1- F- S	12Fh4	1- F28	2F42	I I b
RoI I er	6- 72	2hF44	28FS:	20FS:	28F18	4F26	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	: 800hF- S	: 8668F- 2	: 4h21F2-	: 04: 6F28	- F82	I I b
Don	: 672	: hS6- F. 6	: 684hF. S	: : 1S: F- -	: 0SS6F1-	- F48	I I b
Don	: 072	6S64SFh:	: 68h8Fh:	: 6S- hF86	: 08: hFh2	4F2-	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	06FhS	0: F08	04F- 6	0: F68	1F68	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	02Fh0	02F01	0SF- S	02FSS	2FS4	I I b
LeaO	2S871	00F21	0: Fh-	04F86	06FSS	1F: :	I I b
LA&EAum	671				h0		G
MagnesAum	2472	: 08hF62	: 612F0S	: - hhF48	: 6SSF6S	- F4h	I I b
Manganese	: : 72	- : S8F4h	- 4- 4F44	- 206F48	- 4S6F40	- F48	I I b
Mol%bOenum	h471	4F60	4F02	4F64	4F68	SFh:	I I b
Mol%bOenum	h: 71	2F- 1	2F4S	2F21	2F- 1	4FS2	I I b
Mol%bOenum	h671	2F: 1	2F: :	2F46	2F: 1	1F8:	I I b
Mol%bOenum	h071	2F- 4	2F- h	2F2:	2F- -	- FSS	I I b
Mol%bOenum	h871	2F- 6	2F2-	2F1-	2F24	4Fhh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	24F- h	2- F2-	22F46	2- F- 6	4F14	I I b
PEosI Eorus	- 172	1- : 0F2:	1- 88Fh4	1- 16F: 4	1- : 4F24	2F68	I I b
Po&assAum	- h72	h8- 6F40	h608F- 1	h16: F68	h: 6SF1:	- F60	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				hh		G
pelenAum	8271	2F0h	2F02	- FS1	2F84	: F28	I I b
pelenAum	0072	100F4-	101F- h	16: F: :	101F46	- F40	I I b
pelenAum	0872	- 2F64	- 6F88	- - F22	- 4F24	6F01	I I b
pAAqon	2871	2- : F- 0	2: SFh4	2- 6Fh:	241FSh	- F: :	I I b
pAver	1S071	SF2h	SF2h	SF26	SF28	6F6S	I I b
pAver	1Sh71	SF- S	SF- :	SF28	SF- 1	12F11	I I b
poOAum	2- 72	122Fh4	11- F84	1S: FS:	11- Fh:	0F8:	I I b
p&on&Aum	8671	0: F: 6	06F84	04F04	0: F01	1F4S	I I b
p&on&Aum	8871	82F11	0hFh8	00F61	0hFhS	2F82	I I b
pulfur	- 471	716- 6F64	71: 2hF1h	72SS- Fh6	7102- F26		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF: 1	SF: 1	SF48	SF: S	2F80	I I b
i EallAum	2S: 71	SF: -	SF: S	SF: 2	SF: 1	2F82	I I b
i A	11871	- F28	- F- :	- F1h	- F20	2F: 4	I I b
i A&anAum	4071	: 44F: S	: 60F- 4	: : SFh8	: : 4F20	2F12	I I b
UranAum	2- 871	4F- 0	4F- h	4F- :	4F- 0	SF: 1	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	42F16	41F41	- 8F. 4	4SF0S	4F0S	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				14-		G
Y&&Aum	8h72				1- h		G
ZAnq	6672	- - hF4S	- - 1F11	- 22F- -	- - SFh:	2F. 8	l l b
ZAqonAum	hS71	1F6-	1F6:	1F60	1F6:	1F22	l l b
ZAqonAum	h171	1F64	1F. :	1F62	1F6S	- FS4	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18: 08F28	18- : 2F- h	18284FSh	184S4Fh2	SFB4	I I b
c n&Amon%	12171	SF- S	SF2h	SF- 1	SF- S	- F- -	I I b
c rsenAq	0: 72	16FS0	16FS4	16F- 1	16F14	SFhS	I I b
BarAum	1- : 71	6S0F. 4	: h2F62	6S- F- :	6S1F10	1F28	I I b
BarAum	1- 071	612F60	6S8F18	6S0F02	6ShF. 2	SF4:	I I b
Ber%lAum	h71	: F11	4Fh6	: F10	: FS8	2F1:	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	1F- 1	1F42	1F- -	1F- 6	4F1:	I I b
RaOmAum	1S671	: Fh-	4F6S	6F12	: F. :	14Fh6	I I b
RaOmAum	11171	1F61	1F68	1F66	1F6:	2F42	I I b
RalqAum	4- 71	1- - S0F6:	1- 488F. h	1- 22- F- -	1- - - hFB6	1FS2	I I b
RalqAum	4471	1- 0h4F. S	1- 66: F2h	14SS4FS6	1- 821F28	1F24	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	14Fh8	1: F- 0	14FBS	1: FS:	1Fh1	I I b
Robal&	: h72	12Fhh	1- F1:	12FB0	1- FSS	1FS8	I I b
RoI I er	6- 72	20F- 0	20F12	20F1h	20F2-	SF48	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1Sh		G
y olmAum	16: 72				1S8		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1S-		G
Don	: 472	: 0: 4: F. :	: 88: 1F18	: h- 8SF- 6	: 8: h2F- 6	1F61	I I b
Don	: 672	: 8S1hF12	: 8h- : FSS	: 824hFh-	: 84S1F- :	SFB2	I I b
Don	: 072	: h664F1S	6SS- : FB:	: h6h6F24	: h0h8F0-	SF- 4	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	8SF- 6	0hFBS	08F- 2	0hF4h	1F- 2	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	06F81	04F22	04F40	0: F16	1FhS	I I b
LeaO	2S871	8SF26	08F11	08F: :	08Fh0	1F44	I I b
LA&EAum	671				h8		G
MagnesAum	2472	: - 8SF61	: - h0F62	: - 02FhS	: - 8- F01	SF24	I I b
Manganese	: : 72	- - 04F6h	- 461F- 6	- 4- SF28	- 422F11	1F28	I I b
Mol%bOenum	h471	6F- -	4F61	4Fh0	: F- S	10FS6	I I b
Mol%bOenum	h: 71	2F4S	2F- -	2F42	2F- 8	1F8:	I I b
Mol%bOenum	h671	2F: 0	2F6S	2F64	2F6S	1F2S	I I b
Mol%bOenum	h071	2F4h	2F- 6	2F2h	2F- 8	4F- 6	I I b
Mol%bOenum	h871	2F42	2F2h	2F- 6	2F- 6	2F6h	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	2- F16	2- F41	2- F1S	2- F2-	SF0S	I I b
PEosI Eorus	- 172	1- 2hF: 4	1144F: 1	12h8FS0	12: 0F- 0	0F80	I I b
Po&assAum	- h72	868- F- 6	80S0F- 6	86h: F10	86h: F- S	SF14	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				1S2		G
pelenAum	8271	- FS2	- F06	2F61	- F1-	18F04	I I b
pelenAum	0072	1: 8F82	1: 4F: 4	162F- 2	1: 8F: 6	2F46	I I b
pelenAum	0872	- SF86	- - F20	- 2F64	- 2F26	- F88	I I b
pAAqon	2871	264F1h	201F6S	260F4h	260F06	1F- h	I I b
pAver	1S071	SF- -	SF- 2	SF- 1	SF- 2	- F46	I I b
pAver	1Sh71	SF- :	SF- -	SF- 8	SF- :	6FhS	I I b
poOAum	2- 72	2S2F68	2S- F12	2SSF81	2S2F2S	SF61	I I b
p&ona&um	8671	8- F64	82F6h	81F00	82F0S	1F1-	I I b
p&ona&um	8871	80Fhh	84F06	84F44	8: F0-	2F2h	I I b
pulfur	- 471	72S1- F6S	72S1hF1h	72- 21F00	72118F1h		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S8		G
i EallAum	2S- 71	SF: 6	SF: 8	SF: h	SF: 8	2F: 6	I I b
i EallAum	2S: 71	SF: h	SF: :	SF: 6	SF: 0	4FSh	I I b
i An	11871	: F2S	: FS-	: F- S	: F18	2F64	I I b
i A&anAum	4071	: h4F42	: h- F66	: 8- Fh2	: hSF60	SFhh	I I b
UranAum	2- 871	4F: :	4F42	4F4S	4F46	1F8-	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	4SF. S	41F2:	- hF80	4SF. 4	1F0S	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				142		G
Y&&Aum	8h72				142		G
ZAnq	6672	- 4: F- 4	- - 8F. 2	- 44F- 4	- 42F04	1FS8	I I b
ZAqonAum	hS71	1F. h	1F. 8	1F62	1F6S	1F4h	I I b
ZAqonAum	h171	1F. 6	1F61	1F6S	1F. h	1F42	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1 4S8F- S	1 - - F56	1 - 1- F4-	1 - 2F26	SF- 2	I I b
c n&Amonh	12171	SF6	SF60	SF62	SF64	4F2S	I I b
c rsenAq	0 72	- %F1%	- %F 8	- %F58	- %F28	SF66	I I b
BarAum	1- 71	- 80F8-	4S- F0%	- %0F8-	- %6F48	2FS-	I I b
BarAum	1- 071	- 81F66	4S0F18	- %8F68	- % F84	- F28	I I b
BerhlIAum	%71	1F80	1F0%	1F04	1F8S	- F82	I I b
BAsmu&E	2S%71				111		G
BAsmu&E	2S%72				1S		G
BromAne	8171						ql s
RaOmAum	1S871	2F14	2F28	2F10	2F2S	- F 4	I I b
RaOmAum	1S671	7SF- 1	71F42	71F88	71F2S		I I b
RaOmAum	11171	1F8%	1P%6	2F11	1P%%	F0S	I I b
RalqAum	4- 71	261% F2%	20444F24	260 FS2	260%8F18	2F- -	I I b
RalqAum	4471	201S0F18	282S%F0-	206%2F60	2066%F86	1P%%	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 71						ql s
REIorAne	- 72						ql s
REromAum	272	2 F24	24F20	24F84	24F08	1P%	I I b
Robal&	%72	22FS1	21P%6	21F	21F84	1F16	I I b
RoI I er	6- 72	%2F6%	%, F84	%2FS8	%2F80	SP%6	I I b
t hsI rosAum	1 671						ql s
t hsI rosAum	1 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16 71				111		G
y olmAum	16 72				1S4		G
DnOAum	11 71				111		G
DnOAum	11 72				%%		G
Don	472	602- F- 0	S1%F62	1%F60	0 4F22	1F 0	I I b
Don	672	88- F- %	80%P%8	4 - 2F- 1	4- 1F8%	1F41	I I b
Don	072	6828F-	6 86F26	6- 14F86	6 06F4%	SF4	I I b
KrhI &on	8- 71						ql s
LeaO	2S671	% F00	%4F 6	%6F18	% F S	SF8%	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S071	%. P%0	%1P%.	%2FS8	%2F66	1F2-	I I b
LeaO	2S871	% F- 2	%. F66	%4F12	%4F- 0	SP%1	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1- 86%F86	1- 020F41	1- %. 6FS-	1- 844F44	SF00	I I b
Manganese	72	1 4SF-	1 S0P%S	1 1 P%6	1 21F4S	1F11	I I b
MolhbOenum	%471	0F12	0F62	0F 8	0F44	- F0	I I b
MolhbOenum	% 71	- F12	- F21	- F1	- F16	1F4%	I I b
MolhbOenum	%671	- F- S	- F0S	- F62	- F 4	P%.	I I b
MolhbOenum	%071	- F11	- F- S	- F1%	- F2S	2P%	I I b
MolhbOenum	%871	- F1-	- F22	- FS8	- F14	2F2	I I b
NeoChmAum	1 S71						ql s
NeoChmAum	1 S72						ql s
NAqkel	6S72	4 F0%	46F24	46FS6	46FS-	SF4%	I I b
PEosI Eorus	- 172	- - %P%4	- - 8F86	- 6- 1F81	- 1SF2S	- P%6	I I b
Po&assAum	- %72	0 84F 2	0 24F 1	00- %F8	0616F2%	1F46	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4 71				11S		G
pqanOAum	4 72				%8		G
pelenAum	8271	1F0-	1P%4	1F88	1F8	F66	I I b
pelenAum	0072	SF 6	44F0-	- 6P%8	44FS%	1 F4	I I b
pelenAum	0872	8F2	1SF11	%F28	%F21	1SF11	I I b
pAAqon	2871	22%F41	24SP%4	2- P%4	2- F4-	2F4	I I b
pAver	1S071	SF 4	SF6S	SF 0	SF 0	4F 8	I I b
pAver	1S%71	SF	SF62	SF %	SF %	6F46	I I b
poOAum	2- 72	2- 8F48	228F- 1	222P%S	22%P%S	- F44	I I b
p&ona&um	8671	1 4F84	16SF-	1 %F4	1 8F21	1F80	I I b
p&ona&um	8871	162F80	16 F6	16 F84	164F0%	1FS1	I I b
pulfur	- 471	71- F16	7041F6-	71164P%0	71S80F2		I I b
i erbAum	1 %71				112		G
i erbAum	1 %72				1S4		G
i EallAum	2S- 71	SF4	SF4-	SF44	SF44	1F6-	I I b
i EallAum	2S 71	SF4S	SF46	SF42	SF4-	6F6%	I I b
i An	11871	1F 0	1F0-	1F6	1F6	4F64	I I b
i A&anAum	4071	1S0F14	11SF88	1S0F0	1S8F %	1F8	I I b
UranAum	2- 871	2F 4	2F 4	2F 1	2F -	SF02	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69-	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	172	0SF- S	0SF2	0SFS0	0SF21	SF10	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				116		G
Y&&Aum	8%72				111		G
ZAnq	6672	- 6- F- 8	- 61F10	- 6- F0S	- 62F0	SF- 8	I I b
ZAqonAum	%S71	2F64	2F6%	2F0S	2F68	1F1S	I I b
ZAqonAum	%171	2F 1	2F 6	2F02	2F6S	4F16	I I b

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Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y h SF22	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdPP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	11: - 4UN6	114NJU1N	11: 26UJ6	11: 10USS	SU21	DDe
q5Tb n5%	12171	SU60	SU60	SU64	SU66	- US4	DDe
qpwr 5cd	0: 72	44U0S	4- UJS	4: US-	44U4	1U1	DDe
Bspcmb	1- : 71	2J2U06	2N1US1	206U4-	2N- U4S	2UJ0	DDe
Bspcmb	1- 071	2JNUN-	20JU6-	2NSU2	2N6U-	- U0N	DDe
Br p%PPmb	J71	1U64	1U6S	1U2	1UJ	- U04	DDe
Bcvb mTE	2SJ71				1S0		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1U0	1UN2	2U2S	1UNS	22UJ:	DDe
v sob cmb	1S671	7SU4	SU2-	7SU24	7SU12		DDe
v sob cmb	11171	1U6N	1U06	1U60	1U0S	2UJ1	DDe
v sPdcmb	4- 71	- - S16U01	- S0- 6U41	- 126SU6:	- 1601U26	- U00	DDe
v sPdcmb	4471	- - JSSU0:	- 2- : 1U00	- 2S: 1U0N	- 206NU1S	- US-	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- : 71						dDw
v EPmpc5r	- : 72						dDw
v Epmb cmb	: 272	1JU0-	1JUS:	1JU0	1JU4:	1UN1	DDe
v nesPT	: J72	2: UN2	2: U1S	2: U1:	2: U:	1UJ	DDe
v nDDr p	6- 72	N0U66	N4U6-	N6U2N	N6U1J	1U06	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				1S6		G
h nPb cmb	16: 72				1S6		G
t5ocmb	11: 71				1S4		G
t5ocmb	11: 72				1SS		G
tpn5	: 472	: 6621U6-	: - - 62U24	: 4- N: UJN	: 40NJUJ:	- US4	DDe
tpn5	: 672	: : S16U02	: 2N0: UJJ	: 41NSU2-	: 4S24U1	2USS	DDe
tpn5	: 072	: 0S: SU44	: - - 6: UJ:	: : S14U40	: : 14- U62	- UJ:	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	J: U0S	J1U2	J1U61	J2UNN	2U64	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JSU24	N0U1S	N0U0-	NNUJ6	1UWN	DDe
Lr so	2SN71	J- US6	NJU-6	NJUJ-	JSUW:	2U11	DDe
LdEcmb	671				J0		G
y sM5r wcmb	2472	1S104U4S	1S11SU21	1S1J0U4-	1S16SU6N	SU44	DDe
y s5Ms5r wr	: : 72	21SNUJN	2S4- UJJ	2SN2U10	2S00UJN	1U0	DDe
y nP%eor 5mb	J471	JU2S	JU1-	NUJ-	JUSN	1U6	DDe
y nP%eor 5mb	J: 71	4U6J	4UN	4U41	4U6	- U12	DDe
y nP%eor 5mb	J671	: U4-	: US:	: USN	: U1J	4US:	DDe
y nP%eor 5mb	J071	4U00	4U0S	4U6:	4U01	1U26	DDe
y nP%eor 5mb	JN71	4UWJ	4U66	4U-	4U0S	- UW0	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	: - U40	: 2UJ4	: - U6	: - U-	SU6-	DDe
8 EnwDEnpmw	- 172	2- S4U1N	2- 6- U2J	22- 6UJ1	2- S1U46	2U0:	DDe
8 nTswwcmb	- J72	420- UJ	4S26U4	41J- U10	4164U44	- US-	DDe
CEnocmb	1S- 71				1S2		G
CEnocmb	1S- 72				1S-		G
I ds5ocmb	4: 71				1S4		G
I ds5ocmb	4: 72				JJ		G
I r P 5cmb	N271	2U22	1U04	2USJ	2US2	12U0	DDe
I r P 5cmb	0072	- 0U2N	41U01	40U2:	42USN	11UW6	DDe
I r P 5cmb	0N72	0UJ0	NU04	NU11	NU20	4UJJ	DDe
I dcdn5	2N71	1JSU1S	1N2US6	1N1UJJ	1N4U02	2U-	DDe
I dgr p	1S071	SU01	SU6-	SU66	SU60	: UW6	DDe
I dgr p	1SJ71	SU0S	SU0S	SU0S	SU0S	SU62	DDe
I nocmb	2- 72	201U46	202UJN	204UJ6	20- U1-	SU64	DDe
I Tpn5Tcmb	N671	1: NU:	1: 1US4	14JU21	1: 2UJ-	- U24	DDe
I Tpn5Tcmb	NN71	164UW:	16SUSS	1: 6UN	16SU4N	2UJ	DDe
I mPmp	- 471	NN12U06	001SU2-	N166U1N	N22JU0-	6U0-	DDe
Ar pecmb	1: J71				1SN		G
Ar pecmb	1: J72				1S-		G
AEsPmb	2S- 71	SUJN	SU4S	SUJJ	SUJJ	2UJN	DDe
AEsPmb	2S: 71	SU4S	SUJN	SUJ6	SUJN	: U2S	DDe
Ad5	11N71	1UWJ	1UW2	1U01	1UW1	: US-	DDe
AdS5cmb	4071	J- UWJ	N: U1-	NNUJJ	NJUJ4	4UJ1	DDe
Rps5cmb	2- N71	- US-	2UW:	2U0J	2UWJ	4U46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9-S	&sTsFdP u sb r 9	S6JqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	62U-2	61U2N	61U-0	61U66	SUJ4	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				111		G
YTTpomb	NJ72				111		G
Zd5d	6672	2J6U4:	2JSUN4	2J- U2	2J- U6S	SUJ6	DDe
Zqpdn5omb	JS71	- USJ	- USS	2UJ1	- USS	2UJS	DDe
Zqpdn5omb	J171	- U1S	2UJN	2UN2	2UJ6	4U00	DDe

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LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	y0y9.S1	y06S.2S	yy11.4-	y92- .21	S.9S	ppm
Aotiu Ooh	12171	S.61	S.64	S.69	S.64	%0%	ppm
Aesboic	0%72	16.- S	1%21	1%Sy	1%%	4.29	ppm
BaeiNu	1- %71	29y.94	2yS.%6	290.02	29y.- 0	S.%1	ppm
BaeiNu	1- 071	2y- .00	2y%SS	2y1.y-	2y- .%0	S.%	ppm
BbehlliNu	y71	2.6S	2.6y	2.%4	2.61	2.yS	ppm
Bisu NtE	2Sy71				1S9		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	- .S2	- .S1	2.4-	2.92	11.y%	ppm
Uadu iNu	1S671	S.42	1.yS	- .%0	1.y6	9S.- 1	ppm
Uadu iNu	11171	1.4-	1.- y	1.- y	1.4S	1.0%	ppm
UalciNu	4- 71	2- - - S.1S	2296- .1-	2- 22%60	2- 1- y.6-	1.S6	ppm
UalciNu	4471	241- 2.y6	24- 02.- S	2- 010.yy	24S04.42	1.- 9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%272	14.S2	1- .9%	14.- %	14.S0	1.91	ppm
UOmalt	%y72	1S.- 4	1S.- S	1S.- 4	1S.- -	S.21	ppm
UOppbe	6- 72	29.S0	20.y%	29.44	29.1%	S.y2	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				1S9		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				1S6		G
IodiNu	11%72				y9		G
IeOo	%472	26S2- .4y	26469.6-	20S- y.40	26%1S.%	1.y2	ppm
IeOo	%672	26226.y0	2614%1%	2%9S- .2y	26S%9.40	S.96	ppm
IeOo	%072	24%14.%2	244y6.41	246- y.96	24%%S.26	S.- 2	ppm
KehptOo	9- 71						cps
Lbad	2S671	y4.%2	y2.6%	yS.90	y2.69	1.y0	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	yS.y1	yS.49	90.14	9y.%1	2.- 1	ppm
Lbad	2S971	y2.S4	y1.91	9y.6S	y1.1%	1.49	ppm
LitEiNu	671				yy		G
g avobsiNu	2472	6292.y%	6- 64.y-	6619.6-	6422.10	2.0-	ppm
g aovaobsb	%%72	%40.4S	%%6S.y0	%%9.1-	%%2.10	S.yy	ppm
g OhmdboNu	y471	2- .1S	22.9-	22.2y	22.04	1.91	ppm
g OhmdboNu	y%71	1.- 4	1.42	1.- %	1.- 0	- .2%	ppm
g OhmdboNu	y671	- .%	- .%6	- .66	- .%9	1.y2	ppm
g OhmdboNu	y071	1.1%	1.- 0	1.4S	1.- 1	1S.%1	ppm
g OhmdboNu	y971	1.44	1.20	1.- %	1.- %	6.- 0	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	2S.19	2S.%	21.Sy	2S.6S	2.22	ppm
PEOspEOeNs	- 172	22S- .y9	2- 10.16	2- 60.%1	22y6.22	- .6%	ppm
POtassiNu	- y72	% 4- .yy	% S%- 1	% - S.4%	% 26.%9	S.- 0	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				1S9		G
r caodiNu	4%72				y0		G
r blboiNu	9271	1.S6	1.%6	1.2%	1.2y	1y.4-	ppm
r blboiNu	0072	%S.42	4S.- S	%2.1-	40.62	1- .4-	ppm
r blboiNu	0972	1S.44	9.9S	9.26	y.16	12.- 0	ppm
r ilicOo	2971	21- .Sy	2S6.94	21S.6%	21S.1y	1.%S	ppm
r ilRbe	1S071	S.%	S.%	S.%2	S.%	1.26	ppm
r ilRbe	1Sy71	S.6S	S.%6	S.%%	S.%0	4.04	ppm
r OdiNu	2- 72	1%0.%1	1%4.4S	162.%y	1%9.10	2.61	ppm
r teOotiNu	9671	112.24	1Sy.1%	1S0.91	1Sy.0-	2.S0	ppm
r teOotiNu	9971	110.%2	112.S4	114.- 1	114.62	2.4S	ppm
r NfNe	- 471	71- 24.%0	7149- .y0	711%9.%9	71- 22.- 0		ppm
TbemiNu	1%y71				1S6		G
TbemiNu	1%y72				1S-		G
TEalliNu	2S- 71	S.22	S.26	S.21	S.2-	12.S0	ppm
TEalliNu	2S%71	S.21	S.2-	S.2S	S.22	0.1S	ppm
Tio	11971	- .16	- .2%	- .4S	- .20	- .9S	ppm
TitaoiNu	4071	162.29	16S.2%	162.69	161.04	S.91	ppm
F eaoiNu	2- 971	2.0-	2.00	2.62	2.01	2.yy	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%172	- 9.66	- 9.- -	- y.%9	- 9.96	1.69	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				11-		G
YtteiNu	9y72				1Sy		G
Zioc	6672	220.91	229.y6	2- S.- 2	22y.S-	S.%%	ppm
ZiecOoiNu	yS71	12.- y	12.S2	11.y0	12.1-	1.96	ppm
ZiecOoiNu	y171	12.24	12.S6	11.02	12.S1	2.2S	ppm

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	h0 2F41	h62SFh2	h0S2F4-	h0S1Fh2	SF -	l l b
cn&mon%	12171	SF61	SF6S	SF64	SF61	- F12	l l b
crwenAq	0J72	1JF2	1JFh0	1JF1h	1JF4	2F06	l l b
BsrAum	1- J71	2 - F62	26 F44	2 1F26	200F00	2Fh4	l l b
BsrAum	1- 071	2 4F 6	202FSS	2 4F00	2 SFJ4	2F64	l l b
Ber%BAum	h71	2FJJ	2F41	2FJS	2F4h	2FhS	l l b
BAumu&E	2Sh71				11S		G
BAumu&E	2Sh72				1SJ		G
BromAne	171						ql w
RsOmAum	1S 71	2F6J	2F2S	2FJ-	2F46	hFJ4	l l b
RsOmAum	1S671	1F1-	71F44	71F06	7SF6h		l l b
RsOmAum	11171	1F40	1F- 1	1F- J	1F-	JFh-	l l b
RsRqAum	4- 71	2- 1h- F00	221h4F00	2- 4SSF- J	22h2hF6-	2F 1	l l b
RsRqAum	4471	2- 0 F2-	2- 2S1F02	2- 12FJS	2- 6- SF 2	1FJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- J71						ql w
REPrAne	- J72						ql w
REromAum	J272	14FS1	1- F0	1- F6-	1- F 1	1F4S	l l b
RobsR&	Jh72	1SFJ0	1SF1S	1SFJ6	1SF41	2FJ4	l l b
Rol l er	6- 72	2 F6-	2 F4S	2 F1J	2 F4S	SF J	l l b
t %wl rowAum	1J671						ql w
t %wl rowAum	1J672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oPmAum	16J71				112		G
y oPmAum	16J72				1S6		G
DrOAum	11J71				11S		G
DrOAum	11J72				1SS		G
Don	J472	260 JFJ-	2014- FJh	26122Fh1	266 4FS1	1Fh4	l l b
Don	J672	26446F00	262- 1F40	26- 4JF60	26- 41F- S	SF41	l l b
Don	J072	24614F	24J64F6-	24- h1FJ1	24J2- F60	SF4	l l b
Kr%l &on	- 71						ql w
LesO	2S671	h- F62	hF4-	h2FJh	h1F	2F-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RAen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S071	0Fh2	6F12	hF2	0F00	1F 1	l l b
LesO	2S 71	hSF64	0F0h	hSF1h	hFJ4	1F02	l l b
LAEAum	671				1S1		G
MsgnewAum	2472	6- 00F 4	6- S2FS2	622JF- 2	6- S1F0-	1F21	l l b
Msngsnewe	JJ72	J62F1S	J4hF- 1	JJ2FSS	JJ4F40	1F22	l l b
MoP%bOenum	h471	22F- -	21F11	2- F1h	22F21	4F01	l l b
MoP%bOenum	hJ71	1F- J	1F- -	1F- J	1F- J	SF S	l l b
MoP%bOenum	h671	- FJh	- F-	- F 4	- F6S	6F-	l l b
MoP%bOenum	h071	1FJJ	1F- 2	1F4S	1F42	FS0	l l b
MoP%bOenum	h 71	1F44	1F- 0	1F- -	1F-	- Fh2	l l b
NeoO%mAum	1JS71						ql w
NeoO%mAum	1JS72						ql w
NAqkeP	6S72	2SF 6	2SF22	2SF- 4	2SF40	1F66	l l b
8 EowI Eoruw	- 172	220hF2	2- - SF41	22 6F2J	22h F6J	1F21	l l b
8 o&swwAum	- h72	J- 61F0h	J10JF- h	J2h F42	J20 FJ-	1F S	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S4		G
pqsnOAum	4J71				1S		G
pqsnOAum	4J72				h		G
pe?enAum	271	1F10	SF 2	1F60	1F22	- JF14	l l b
pe?enAum	0072	4SF04	JhFSJ	4SFJ-	46F00	22F04	l l b
pe?enAum	0 72	6F 1	hFSJ	F2S	FS2	14FSh	l l b
pAqon	2 71	2S0F- 0	2SSF16	216Fhh	2S F1	4FS6	l l b
pAer	1S071	SFJS	SF4h	SFJ1	SFJS	2F10	l l b
pAer	1Sh71	SFJ2	SFJS	SFJ	SFJ-	0Fh	l l b
poOAum	2- 72	166F4	1J6F14	16- F6-	162FS	- F2h	l l b
p&on&Aum	671	1S F- 0	1S- F4	1S F6J	1S6F 4	2F02	l l b
p&on&Aum	71	111FhS	1ShF1h	11JF41	112F16	2F0	l l b
pufur	- 471	712- SF01	716- JF60	71SJ6FJ6	71- S0F6J		l l b
i erbAum	1Jh71				112		G
i erbAum	1Jh72				1S4		G
i EsPAum	2S- 71	SF2-	SF1h	SF2-	SF21	11F20	l l b
i EsPAum	2SJ71	SF22	SF22	SF2-	SF22	2F J	l l b
i An	11 71	- F10	2Fh0	- FS1	- FSJ	- F44	l l b
i A&snAum	4071	161F06	1J4F6h	1JhF60	1J F01	2F2h	l l b
UrsnAum	2- 71	2F6h	2F6S	2F0S	2F66	2F1h	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J172	- hFJ-	- F1-	- F11	- FJh	2F1S	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				116		G
Y&&Aum	h72				11S		G
ZAnq	6672	226F- -	22hF01	224F6h	226Fh1	1F1-	l l b
ZAqonAum	hS71	12F21	11F01	12F26	12FS6	2FJ1	l l b
ZAqonAum	h171	12F 2	11FJJ	11Fh6	12F11	JF- J	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARminium	23O2	1J- 1.4J	1J74.2-	1969.72	1JJ7.OJ	- .9-	ppb
Antimony	1210 1	O.11	O.1-	O.14	O.1-	14.- 3	ppb
Arwenic	37O2	- .72	2.JJ	- .- 1	- .2-	1O.O9	ppb
Bsrium	1- 70 1	72.24	72.- 4	7- .JO	72.JO	1.67	ppb
Bsrium	1- 30 1	71.24	74.J9	7- .J9	7- .- 4	- .7-	ppb
BeryRRum	90 1	O.46	O.49	O.44	O.46	7.J6	ppb
Biwmuth	2O90 1				1O7		%
Biwmuth	2O9O2				1OO		%
Bromine	J10 1						cpw
Csdmium	1OJ0 1	O.7O	O.J2	O.7O	O.61	29.J9	ppb
Csdmium	1O60 1	0- .1J	0- .64	O2.13	0- .OO		ppb
Csdmium	111 0 1	O.2J	O.19	O.27	O.24	1J.- 1	ppb
CsRium	4- 0 1	4292.J4	4- 43.1O	4- 4J.32	4- 29.77	O.3-	ppb
CsRium	44 0 1	444- .69	4741.O1	4779.O9	4714.79	1.- 3	ppb
Csrbon	12 0 1						cpw
Csrbon	12O2						cpw
ChRrine	- 70 1						cpw
ChRrine	- 70 2						cpw
Chromium	72O2	2.64	2.32	- .O1	2.39	6.9O	ppb
CobsRR	79O2	1.9-	1.97	1.9J	1.97	1.4J	ppb
Copper	6- O2	7.42	7.4J	7.J3	7.79	4.47	ppb
Dywprowium	176 0 1						cpw
Dywprowium	176O2						cpw
Erbium	164 0 1						cpw
Erbium	164O2						cpw
GsdoRRnium	16O 0 1						cpw
GsdoRRnium	16O O2						cpw
HoRRnium	167 0 1				1O3		%
HoRRnium	167O2				1O1		%
Indium	117 0 1				1O6		%
Indium	117O2				96		%
Iron	74O2	4623.17	4311.O4	4937.1O	4331.1O	- .J1	ppb
Iron	76O2	4929.24	499J.OJ	7292.O6	7O3- .1-	- .JO	ppb
Iron	73O2	473- .J9	4631.33	4J9J.2J	4314.67	- .7-	ppb
Krypton	J- 0 1						cpw
Lesd	2O60 1	13.O3	13.6O	13.69	13.47	1.92	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.- 3	16.92	16.91	16.3-	1.J3	ppb
Lesd	2OJ01	16.9O	13.19	13.- 1	13.1-	1.2O	ppb
Lithium	601				97		%
Msgnewium	24O2	11J1.J1	1131.2-	129- .99	1217.6J	7.6O	ppb
Msngsnewe	77O2	1O4.O6	1O6.37	112.74	1O3.3J	4.O2	ppb
MoRybdenum	9401	4.4J	4.- 1	4.47	4.41	2.O6	ppb
MoRybdenum	9701	O.29	O.24	O.2J	O.23	J.73	ppb
MoRybdenum	9601	O.34	O.64	O.32	O.3O	3.J9	ppb
MoRybdenum	9301	O.2O	O.29	O.2J	O.26	13.J2	ppb
MoRybdenum	9J01	O.2J	O.29	O.24	O.23	1O.22	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	- .J2	4.11	- .91	- .97	- .3O	ppb
8howphoruw	- 1O2	- J2.6-	- 47.- J	- 7- .O2	- 6O.- 4	7.46	ppb
8otswwium	- 9O2	994.7O	992.97	1O67.96	1O13.JO	4.1O	ppb
Rhodium	1O- 01				1O-		%
Rhodium	1O- 02				99		%
Scsndium	4701				1O-		%
Scsndium	47O2				94		%
SeRenium	J201	0O.1-	0O.7J	0O.- 2	0O.- 7		ppb
SeRenium	33O2	1- .- 9	11.9J	12.J6	12.34	7.7J	ppb
SeRenium	3JO2	1.- 6	2.O-	- .- J	2.26	47.6-	ppb
SiRcon	2J01	- J.67	- J.J2	4O.43	- 9.- 1	2.77	ppb
SiRver	1O301	O.11	O.11	O.1O	O.1O	2.22	ppb
SiRver	1O901	O.12	O.11	O.11	O.11	4.93	ppb
Sodium	2- 02	29.33	2J.3O	- 6.22	- 1.76	12.J9	ppb
Strontium	J601	2O.- -	21.27	21.29	2O.96	2.79	ppb
Strontium	JJ01	2O.- 6	2O.96	2O.J4	2O.32	1.7-	ppb
SuRfur	- 401	02OJ9.O6	02- 2O.O9	022J7.J9	022- 1.6J		ppb
Terbium	17901				1O3		%
Terbium	17902				1OO		%
ThsRium	2O- 01	O.O6	O.OJ	O.O3	O.O3	14.31	ppb
ThsRium	2O701	O.O7	O.O6	O.O7	O.O7	3.4J	ppb
Tin	11J01	O.7-	O.72	O.64	O.73	11.24	ppb
Titsnium	4301	29.4-	29.J6	29.91	29.34	O.JJ	ppb
Ursnium	2- J01	O.7O	O.72	O.72	O.71	2.39	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CIrent Ssmpre ID :	MHOF2- L	DirRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	3.44	3.44	3.J1	3.76	2.J4	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1O6		%
Yttrium	J90l2				93		%
Zinc	660l2	44.43	4- .2O	46.46	44.31	- .6J	ppb
Zirconium	9O0l	2.- -	2.- 4	2.42	2.- 6	2.O7	ppb
Zirconium	910l	2.19	2.- 9	2.46	2.- 7	7.J3	ppb

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	11814F52	11 h F1S	118- 8F2h	1180SF4h	SF6h	I I b
c n&Amon%	12171	1 F6S	1 F10	1 F58	1 F28	1F46	I I b
c rsenAq	0h72	2- F88	24F8S	26F58	24F 2	4F4-	I I b
BarAum	1- h71	024F 4	01SF21	018F0S	010F h	1F5-	I I b
BarAum	1- 071	0 SF -	0h6F11	06 F16	002F50	2F28	I I b
Ber%lAum	71	1- Fh4	1- F4-	12F 4	1- F- 1	2F-	I I b
BAsmu&E	2S 71				11S		G
BAsmu&E	2S 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	11Fh	1SF4h	11F11	11F5h	hF10	I I b
RaOmAum	1S671	hF86	0F- 6	8F8-	0F- h	2SF22	I I b
RaOmAum	11171	11F00	11F62	11F64	11F68	SF0-	I I b
RalqAum	4- 71	264SSF64	26h22Fh1	2h12hF 6	26S16F- 0	2F 0	I I b
RalqAum	4471	20- 1hF0S	206 F h	2h646F64	26880F4-	4F56	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	h F 8	61F4S	6SF4	6SF62	1F1	I I b
Robal&	h 72	12- F- h	124F88	12- F01	12- F 8	SF64	I I b
RoI I er	6- 72	8hF4	86F68	80F54	86F41	SF 4	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S8		G
y olmAum	16h72				1Sh		G
DnOAum	11h71				1S8		G
DnOAum	11h72						G
Don	h472	- S246Fh1	- S 14F86	- S 4SF 1	- S0SSF06	1F28	I I b
Don	h672	- S2- 1F12	- S2- 1F24	- Sh- SF18	- S- - SF8h	SFh0	I I b
Don	h072	28288Fh	28644F1h	2861SF58	28h14F28	SF6	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S6Fhh	1ShF42	1S- F11	1ShF52	1F60	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
LeaO	2S071	1S2F4-	F60	8F10	1SSFS	2F16	I I b
LeaO	2S871	1S- FnS	1S2F- 1	1S2F- 4	1S2F01	SF66	I I b
LA&EAum	671				0		G
MagnesAum	2472	0224Fn0	02hhFn	02 6FS2	02h8F0-	SF4	I I b
Manganese	hh72	0- F61	0h- F8	040F02	040FS0	SF 6	I I b
Mol%bOenum	471	24F 2	2hF41	2- F60	24F60	- F6h	I I b
Mol%bOenum	h71	1F48	1F- 6	1F41	1F42	4FS4	I I b
Mol%bOenum	671	- F86	- F 1	- F84	- F80	SF8	I I b
Mol%bOenum	071	1F48	1F- -	1F-	1F4S	hF46	I I b
Mol%bOenum	871	1F- h	1F41	1F4-	1F4S	- F12	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	14- F- 4	144F4h	144F86	144F22	SFnh	I I b
PEosI Eorus	- 172	24- - F21	26S8F 4	2h28F22	2h2- F46	- F4	I I b
Po&assAum	- 72	6SS6F14	6100F60	6Sh- FS8	6S08F 0	1F46	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4h71				1S0		G
pqanOAum	4h72				0		G
pelenAum	8271	1 F 2	1 F04	18F06	1 F48	- F22	I I b
pelenAum	0072	0SF- S	08FS2	0SF0-	0- FS2	hF 4	I I b
pelenAum	0872	28F- 1	- - FSh	28FnS	2 F h	8F 6	I I b
pAAqon	2871	261FS0	2h1F -	2- hF0h	24 Fn8	hF14	I I b
pAver	1S071	FS4	8F86	8F0S	8F86	1F 2	I I b
pAver	1S 71	FS	8F88	FSS	8F	1F16	I I b
poOAum	2- 72	2- 6Fnh	2h2F6	2- SFn0	2- F 4	4F00	I I b
p&onA&um	8671	126FS	11 F1	121F82	122F- 0	2F84	I I b
p&onA&um	8871	1- 1F6S	128F- 2	12hF- S	128F4S	2F4h	I I b
pulfur	- 471	7 08FS-	71S- SF22	7142hF2S	71144F48		I I b
i erbAum	1h 71				11S		G
i erbAum	1h 72				1S4		G
i EallAum	2S- 71	8F8	8F61	8F46	8F6h	2F4	I I b
i EallAum	2Sh71	8F 0	8F81	8F64	8F81	1F86	I I b
i An	11871	4F14	4FS1	4F2S	4F12	2F4h	I I b
i A&anAum	4071	181F02	1 2F1-	10- F14	182F- -	hF22	I I b
UranAum	2- 871	- FS2	2F 4	2F 8	2F 8	1F42	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
VanaOAum	h172	1hhF88	1h0F	1h0F86	1h0F24	SF0h	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8 71				114		G
Y&&Aum	8 72				11S		G
ZAnq	6672	4h F61	401F60	408F11	46 F8S	2FSS	I I b
ZAqonAum	S71	14FS6	1- F4-	1- F1S	1- Fh-	- Fh0	I I b
ZAqonAum	171	14FS4	1- F 1	1- F- 4	1- F00	2F01	I I b

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	11yyh.- 2	1y0S2.hh	12S2h.yS	1- Sh0.20	10.- 2	ppm
Aotiu Oo%	12171	S.42	S.41	S.44	S.42	- .4y	ppm
Aeaboic	0y72	11.P-	16.PS	1- .y-	14.Sy	10.h0	ppm
BJeiNu	1- y71	2hh.2S	- S1.06	- S6.4h	- S2.4P	1.22	ppm
BJeiNu	1- 071	- S- .4y	- S- .2h	- S2.Sh	- S2.h4	S.2y	ppm
Bbe%wiNu	h71	- .4y	- .20	- .4-	- .- P	2.h0	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				h6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.P0	1.yP	1.hP	1.P1	11.6y	ppm
UJdu iNu	1S671	7S.12	S.10	1.PS	S.61	16P.Py	ppm
UJdu iNu	11171	1.S1	1.1-	1.S0	1.S0	y.06	ppm
UJwiNu	4- 71	12hP1.4P	1206S.4h	1- S1- .SP	12h1P.- y	1.S0	ppm
UJwiNu	4471	1- - y2.41	1- Sh- .4y	1- 40P.P2	1- - SP.2-	1.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	16.h-	2- .- -	10.S4	1h.1S	1h.16	ppm
UOmJw	yh72	11.y4	1y.y4	12.S1	1- .S-	16.0h	ppm
UOppbe	6- 72	- - .SP	4- .0y	- 4.- 4	- 0.S6	1y.04	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOwoiNu	16S71						cpa
HJdOwoiNu	16S72						cpa
MOw iNu	16y71				111		G
MOw iNu	16y72				h6		G
IodiNu	11y71				1S0		G
IodiNu	11y72				h1		G
IeOo	y472	2h42- .42	- Py02.- 2	- S016.6S	- 2hS4.11	1y.Sy	ppm
IeOo	y672	2h1- 0.02	- h2P4.64	2hP- 0.61	- 20y- .- 2	10.- S	ppm
IeOo	y072	201yy.6h	- 6122.h0	2PSS4.6S	- S420.0y	16.20	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	P0.y2	Ph.Py	P4.y-	P0.- S	- .Sy	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	P4.y6	P4.P1	PS.00	P- .- P	2.02	ppm
LbJd	2SP71	Py.02	P0.- -	P2.Ph	Py.- 2	2.6-	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	y- P- .- y	0- 4y.2P	y640.06	612y.40	10.- P	ppm
g JovJobab	yy72	yyh.60	04y.y-	y0h.14	62P.11	16.26	ppm
g O%mdboNu	h471	14.6S	14.- h	14.y0	14.y2	S.0h	ppm
g O%mdboNu	hy71	S.h6	1.S1	1.S1	1.SS	- .S4	ppm
g O%mdboNu	h671	2.4y	2.y6	2.44	2.4P	2.6h	ppm
g O%mdboNu	h071	S.hh	1.S6	1.SP	1.S4	4.4-	ppm
g O%mdboNu	hP71	S.hh	1.SP	1.S2	1.S-	4.0-	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	2S.- P	2P.46	21.h4	2- .yh	1P.10	ppm
I EOapEOeNa	- 172	1624.Py	21- 6.2y	14P0.12	104h.41	1h.yy	ppm
I OtJaaiNu	- h72	4S14.46	y- 16.2S	4SP4.6-	4401.06	16.- 0	ppm
n EOdiNu	1S- 71				1SP		G
n EOdiNu	1S- 72				hy		G
r cJodiNu	4y71				1SP		G
r cJodiNu	4y72				Ph		G
r bwboiNu	P271	1.4P	1.12	1.12	1.24	16.P1	ppm
r bwboiNu	0072	40.yh	0h.- 1	62.h2	6- .20	2y.S0	ppm
r bwboiNu	0P72	1S.6P	10.42	11.1y	1- .SP	2P.0-	ppm
r iwcOo	2P71	1h0.yy	1hy.h4	1h0.- -	1h6.h4	S.44	ppm
r iwRbe	1S071	S.62	S.66	S.62	S.6-	- .- h	ppm
r iwRbe	1Sh71	S.64	S.60	S.6P	S.60	- .Sh	ppm
r OdiNu	2- 72	1y- .66	2- 0.yh	16- .0-	1P4.hh	24.00	ppm
r teOotiNu	P671	11- .60	116.y2	116.0h	11y.66	1.yS	ppm
r teOotiNu	PP71	11h.66	12y.S2	12- .S2	122.y0	2.21	ppm
r NwNe	- 471	721S6.40	722yS.1y	72SyP.y4	721- P.- h		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				h6		G
TEJwiNu	2S- 71	S.- 1	S.- 6	S.20	S.- 1	1- .hh	ppm
TEJwiNu	2Sy71	S.- 2	S.- -	S.2h	S.- 1	y.06	ppm
Tio	11P71	4.- -	4.- h	4.yy	4.42	2.yy	ppm
TitJoiNu	4071	1y2.4h	140.46	1yS.04	1yS.2-	1.0S	ppm
FeJoiNu	2- P71	- .- 1	- .41	- .24	- .- 2	2.yP	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- P.- 2	yS.yh	- P.0-	42.yy	16.- h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				114		G
YtteiNu	Ph72				1S-		G
Zioc	6672	1h1.Sy	26y.- 1	2S- .h4	22S.1S	1P.S-	ppm
ZiecOoiNu	hS71	0.hS	0.Ph	0.P2	0.P0	S.y4	ppm
ZiecOoiNu	h171	0.6P	P.S2	0.yy	0.0y	- .12	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	2072	121SPFn4	110PhF42	11h14F26	11h- 0Fn4	1F- n	ppm
Aotiu Oo%	12171	1F1-	SFnS	1FS1	1FS1	11Fnh	ppm
Aeaboic	0n72	1- FS6	12F1h	12F- 1	12Fn2	- F0n	ppm
BJeiNu	1- n71	- 66FP2	- S4Fn0	- SSFPP	- 24F22	11F4S	ppm
BJeiNu	1- 071	- 0SFPh	- S2F0P	- SSFn-	- 24FP0	12F20	ppm
Bbe%wiNu	h71	1F64	1F44	1F- -	1F40	1SF6S	ppm
Biau NtE	2Sh71				hP		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
RJdu iNu	1SP71	2Fn6	2F1h	- F20	2FP1	1hFPn	ppm
RJdu iNu	1S671	SF0h	7SF16	72FSP	7SF4P		ppm
RJdu iNu	11171	- FSh	2F60	2F4-	2F0-	12F2h	ppm
RJwciNu	4- 71	12664FS4	1Sn62FnS	hP41F61	11S22F02	1- F- S	ppm
RJwciNu	4471	1- S42F06	11SS- F62	1S2S6Fh2	11410F00	12FP1	ppm
RJemOo	1271						cpa
RJemOo	1272						cpa
REwOeiob	- n71						cpa
REwOeiob	- n72						cpa
REeOu iNu	n272	2PF1-	20F- h	20F44	20F66	1FnS	ppm
ROmJwv	nh72	PF6h	PFnP	PFnn	PF61	SFP-	ppm
ROppbe	6- 72	41FSP	- hF6S	- hFPh	4SF1h	1Fn6	ppm
D%apeOaiNu	1n671						cpa
D%apeOaiNu	1n672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
y Ow iNu	16n71				h0		G
y Ow iNu	16n72				1S6		G
IodiNu	11n71				h0		G
IodiNu	11n72				hh		G
IeOo	n472	2n004F2n	2n20nFSS	24PPSFhn	2n- 1SFS0	1F00	ppm
IeOo	n672	2n162F60	24n24F02	241S6FP0	24nhPFSh	2F16	ppm
IeOo	n072	2- Sh1F06	22h- 0F- S	2260SF- 0	22PhhFP1	SFn-	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21PF41	104F2P	16hF60	1P0F4n	14F- 6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
LbJd	2S071	211F1P	160F61	16- Fn6	1PSF0P	14F61	ppm
LbJd	2SP71	222FPP	1PSF4P	102Fn4	1h2F1S	14FS1	ppm
LitEiNu	671				hS		G
MJgobaiNu	2472	- 2- - Fnh	- 1- 6F04	- 16nF4h	- 10PF04	1Fn0	ppm
MJogJobab	nn72	0nnFn4	040FPn	042F1P	04PF66	SFn2	ppm
MO%mdboNu	h471	nF0S	4FPP	4F46	nFS1	12F6S	ppm
MO%mdboNu	hn71	1FP0	1F01	1F4P	1F6h	11F4-	ppm
MO%mdboNu	h671	2F24	1Fn0	1Fn4	2FSn	PF24	ppm
MO%mdboNu	h071	2F11	1F64	1F6P	1FP1	14F- h	ppm
MO%mdboNu	hP71	1FPh	1Fn4	1Fn6	1F66	11Fn0	ppm
8 bOd%u iNu	1nS71						cpa
8 bOd%u iNu	1nS72						cpa
8 ickbw	6S72	16FPS	16F2S	1nFn-	16F1P	- Fn-	ppm
I EOapEOeNa	- 172	2- - - F42	224PF24	22S6FnP	2262F04	2FP6	ppm
I OtJaaiNu	- h72	41hPFn6	41- 4F- 1	4120FS4	41n- F- S	SFnn	ppm
5 EOdiNu	1S- 71				h6		G
5 EOdiNu	1S- 72				1S4		G
r cJodiNu	4n71				hn		G
r cJodiNu	4n72				hn		G
r bwboiNu	P271	1F2S	SFn0	SFP1	SFnh	1hF0P	ppm
r bwboiNu	0072	- PF2n	24FP1	4- F04	- nF6S	20F- n	ppm
r bwboiNu	0P72	6FP-	nF20	0Fn4	6Fnn	10F0-	ppm
r iwcOo	2P71	1hSF- n	1n6F60	140F- S	164F00	1- F04	ppm
r iwbe	1S071	2F0-	2F2P	2F10	2F- h	12F- S	ppm
r iwbe	1Sh71	2F66	2F2-	2F2h	2F- h	hF6S	ppm
r OdiNu	2- 72	144F4n	1- 4FS0	142Fnn	14SF4h	- Fnh	ppm
r teOotiNu	P671	1nPFP1	12PF42	12nF0n	1- 0F66	1- F- 4	ppm
r teOotiNu	PP71	102F2S	1- 4F20	1- SF46	14nF64	1nFPn	ppm
r NwNe	- 471	hn1Fnn	71S- nFn4	710S- FSn	7nhnF6P		ppm
TbemiNu	1nh71				hP		G
TbemiNu	1nh72				1S4		G
TEJwiNu	2S- 71	SF- 1	SF20	SF20	SF2P	hF62	ppm
TEJwiNu	2Sn71	SF- S	SF22	SF2n	SF26	1nF62	ppm
Tio	11P71	0F0n	6F- 2	6F12	6F0-	1- F2n	ppm
TitJoiNu	4071	2S- FPP	160F6n	1n4FP-	10nF4n	14FnS	ppm
UeJoiNu	2- P71	2FnS	2F- S	2F2-	2F40	14F0h	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n172	4nF06	44F4n	4nF41	4nF21	1F4h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				1S1		G
YtteiNu	Ph72				1S4		G
Zioc	6672	- nPf64	- nnF40	- n- FP1	- nnFh0	SF6h	ppm
ZiecOoiNu	hS71	2F- P	1Fnh	1FP-	2FS0	1- Fh1	ppm
ZiecOoiNu	h171	2FnP	1FPh	1FP0	2F11	1hFSS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1S148F89	h8hhF9S	h94SFh0	h86- F11	- F1S	I I b
c n&Amon%	12171	SF99	SF94	SF92	SF9-	2F02	I I b
c rsenAq	0972	11FS4	1SFh0	1SFS8	1SF0S	9FS-	I I b
BarAum	1- 971	22- F- 1	21- F28	221F9S	21hF- 6	2F44	I I b
BarAum	1- 071	22SF- 6	211Fh-	22- F99	218F61	2F09	I I b
Ber%lAum	h71	1FS2	1FS0	1F11	1FS0	4F1h	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F09	1Fh6	2F09	2F19	24F- 2	I I b
RaOmAum	1S671	72F6S	72F62	7SF1h	71FBS		I I b
RaOmAum	11171	2F41	2FS2	2F20	2F2-	8FB9	I I b
RalqAum	4- 71	6242Fh0	6111F68	6100F02	6100F46	1FS6	I I b
RalqAum	4471	6664F92	64- 6FS0	6444F2h	6914Fh6	1Fhh	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	2- F4h	22Fh2	22F6h	2- FS-	1F08	I I b
Robal&	9h72	0F40	0F19	0FS0	0F2-	2Fh-	I I b
RoI I er	6- 72	2hFBh	2hF44	28F0-	2hF- 9	2FSS	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S6		G
y olmAum	16972				1S4		G
DnOAum	11971				1S6		G
DnOAum	11972				h8		G
Don	9472	18h1hF28	10h26F60	10646FS0	18164FS1	- F68	I I b
Don	9672	1h842FB6	1h911F4S	1882hFS2	1h- h4F42	2F60	I I b
Don	9072	18- 89F6S	1816SFS-	10410F21	10h80F61	2FB2	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	194F99	14hFS2	19- FB8	192F4h	1Fh8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	148F- 6	149F59	140F29	146F8h	1F14	l l b
LeaO	2S871	161F- 4	196F50	198F99	198F69	1F66	l l b
LA&EAum	671				h8		G
MagnesAum	2472	224hF65	22S1F42	2Sh0F45	2182F81	- F96	l l b
Manganese	9972	0hSF62	06- F46	049F1-	066F45	2Fhh	l l b
Mol%bOenum	h471	- F42	- F44	- F4h	- F49	SFh8	l l b
Mol%bOenum	h971	SFhh	1F55	1F59	1F51	- F1-	l l b
Mol%bOenum	h671	1F18	1F20	1F- S	1F29	4Fhh	l l b
Mol%bOenum	h071	1F59	SFh1	SFh4	SFh0	0F08	l l b
Mol%bOenum	h871	SFhh	SF88	SFh4	SFh4	9F96	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	16F52	19F- 4	19F26	19F94	2F05	l l b
PEosI Eorus	- 172	1- h0F94	1289F90	1189FhS	128hF60	8F21	l l b
Po&assAum	- h72	2994F04	2918F91	2- 0hF06	2484F- 4	- F02	l l b
5 EoOAum	1S- 71				1S4		G
5 EoOAum	1S- 72				1S4		G
pqanOAum	4971				1S9		G
pqanOAum	4972				h9		G
pelenAum	8271	SF6S	SFhh	SF01	SF06	26F9S	l l b
pelenAum	0072	- 4F42	- 0F41	22F40	- 1F4-	29F19	l l b
pelenAum	0872	- Fh9	9F46	4F- 2	4F98	10F2S	l l b
pAAqon	2871	2ShF91	2S2F89	2S0F16	2S6F9S	1F64	l l b
pAver	1S071	1F89	1F88	1Fh6	1FhS	- F5S	l l b
pAver	1Sh71	1Fh0	1Fh-	2F5-	1Fh0	2F40	l l b
poOAum	2- 72	1h6F66	18hF68	182F5h	18hF48	- F84	l l b
p&ona&um	8671	86F88	86F89	88F98	80F44	1F1-	l l b
p&ona&um	8871	80Fh9	89F4-	80F98	86Fhh	1F96	l l b
pulfur	- 471	72298F- 0	720h2F9S	72409F89	729S8FhS		l l b
i erbAum	19h71				1S6		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF1h	SF2S	SF22	SF2S	8F10	l l b
i EallAum	2S971	SF18	SF1h	SF18	SF1h	- F9-	l l b
i An	11871	4F59	- Fh9	4F56	4F52	1F94	l l b
i A&anAum	4071	1S1F9S	1SSF14	1S2F80	1S1F9S	1F- 4	l l b
UranAum	2- 871	1F09	1F01	1F0-	1F0-	1F24	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	- 0F14	- 4F96	- - FhS	- 9F2S	4F86	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S0		G
Y&&Aum	8h72				1S1		G
ZAnq	6672	284F10	206Fh9	20SF91	200F21	2F40	l l b
ZAqonAum	hS71	1F44	1F49	1F46	1F49	SF9-	l l b
ZAqonAum	h171	1F9-	1F94	1F42	1F4h	4F49	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1S161.- -	1S1yS.0P	1S214.Sy	1S1PP.0-	S.26	ppm
Aotiu Ooh	12171	S.4-	S.4%	S.4S	S.4-	6.6y	ppm
Aeaboic	0%72	P.P6	y.46	P.y1	y.SP	- .6P	ppm
BJeiNu	1- %71	240.- 2	242.S6	216.0P	2- %- y	6.y4	ppm
BJeiNu	1- 071	2%S.01	242.0y	222.1S	2- P.%	6.1y	ppm
BbehwiNu	y71	1.1P	1.16	1.S%	1.1-	%y1	ppm
Biau NtE	2Sy71				11%		G
Biau NtE	2Sy72				1S%		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6y	2.S4	1.20	1.60	22.y6	ppm
UJdu iNu	1S671	71.4y	7- .01	72.12	72.44		ppm
UJdu iNu	11171	1.62	1.%P	1.%2	1.%0	- .S1	ppm
UJwiNu	4- 71	2141%2-	2124P.%0	1P%2P.22	2S- y0.- 4	0.y%	ppm
UJwiNu	4471	22S02.yS	221y%41	1ySPS.PP	21116.4S	P.- %	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- %71						cpa
UEwOeiob	- %72						cpa
UEeOu iNu	%272	2- .1y	2- .11	2- .y4	2- .42	1.y0	ppm
UOmJwv	%y72	P.1S	P.2-	P.12	P.1%	S.PP	ppm
UOppbe	6- 72	2y.22	2y.PS	- S.1%	2y.02	1.%P	ppm
DhapeOaiNu	1%671						cpa
DhapeOaiNu	1%672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiioiNu	16S71						cpa
HJdOiioiNu	16S72						cpa
MOw iNu	16%71				116		G
MOw iNu	16%72				1S4		G
IodiNu	11%71				11%		G
IodiNu	11%72				yy		G
IeOo	%472	1yy44.6y	1yPP1.S6	2S4- 6.- %	2SSP0.- 0	1.%l	ppm
IeOo	%672	1y024.y4	1y%%P.- 0	2SS%%10	1y00y.4y	1.2P	ppm
IeOo	%072	1P610.06	1P4%2.y2	1P060.0%	1P612.P1	S.P%	ppm
KehptOo	P- 71						cpa
LbJd	2S671	04.0%	02.1P	66.12	01.S1	6.24	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	02.14	6y.%l	62.- -	60.yy	0.40	ppm
LbJd	2SP71	0- .62	0S.4y	64.2-	6y.4%	6.PP	ppm
LitEiNu	671				1S1		G
g JvobaiNu	2472	%06- .Sy	%Py1.PS	%P0P.- %	%P44.41	1.21	ppm
g JovJobab	%%72	420.21	42y.20	4- 2.%l	42y.66	S.62	ppm
g OwmdboNu	y471	4.46	4.- 0	4.S4	4.2y	%SP	ppm
g OwmdboNu	y%71	S.yS	S.PP	S.06	S.P%	P.01	ppm
g OwmdboNu	y671	1.- -	1.20	1.S4	1.21	12.4-	ppm
g OwmdboNu	y071	S.yP	S.y2	S.0%	S.PP	1- .- 0	ppm
g OwmdboNu	yP71	S.P6	S.P4	S.0P	S.P-	4.P%	ppm
8 bOdhu iNu	1%S71						cpa
8 bOdhu iNu	1%S72						cpa
8 ickbw	6S72	16.P0	16.P2	10.%	10.S0	2.- 1	ppm
I EOapEOeNa	- 172	2%6.P1	2600.- -	24y2.y1	2%6y.S2	- .0%	ppm
I OtJaaiNu	- y72	%2S0.62	%14y.- 0	%2PS.y4	%212.64	1.26	ppm
n EOdiNu	1S- 71				112		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4%71				112		G
r cJodiNu	4%72				y6		G
r bwboiNu	P271	S.PP	S.%6	1.14	S.P6	- 4.20	ppm
r bwboiNu	0072	1y.- 2	20.1-	- 1.6S	26.S1	2- .Py	ppm
r bwboiNu	0P72	6.P1	6.2S	0.S-	6.6P	6.- y	ppm
r iwcOo	2P71	14P.11	146.%P	126.- -	14S.- 4	P.66	ppm
r iwRbe	1S071	S.4y	S.4-	S.44	S.46	0.42	ppm
r iwRbe	1Sy71	S.4P	S.46	S.44	S.46	4.- 4	ppm
r OdiNu	2- 72	1%P.04	1%.0%	1%4.4S	1%%6-	1.0%	ppm
r teOotiNu	P671	22S.6P	22S.yy	1Py.11	21S.26	P.01	ppm
r teOotiNu	PP71	2- - .2S	226.%y	1y6.42	21P.0-	P.y6	ppm
r NwNe	- 471	71Py6.- 2	71P00.1-	720y4.%2	721Py.- -		ppm
TbemiNu	1%y71				11%		G
TbemiNu	1%y72				1S4		G
TEJwiNu	2S- 71	S.2%	S.21	S.1y	S.21	1%Sy	ppm
TEJwiNu	2S%71	S.24	S.21	S.10	S.21	16.4-	ppm
Tio	11P71	2.%2	2.4P	2.1P	2.- y	0.y1	ppm
TitJoiNu	4071	1S0.04	1Sy.%	y0.%S	1S4.y-	6.1y	ppm
F eJoiNu	2- P71	2.22	2.16	1.y6	2.12	6.4S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	%172	- S.y6	- 2.11	- 2.1y	- 1.0%	2.1P	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				116		G
YtteiNu	Py72				1S4		G
Zioc	6672	102.06	10P.- 4	10P.yP	106.6y	1.y4	ppm
ZiecOoiNu	yS71	2.1P	2.2S	1.P4	2.S0	y.00	ppm
ZiecOoiNu	y171	2.12	2.S6	1.y0	2.S%	- .%6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	112- S.Py	h6SS.2P	hh61.yP	1S264.24	P.- 4	ppm
Aotiu Oo%	12171	S.- h	S.- -	S.42	S.- P	11.P1	ppm
Aeaboic	0y72	11.- 0	h.y6	h.P-	1S.2y	h.yS	ppm
BJeiNu	1- y71	2- P.1-	2- P.- P	246.yh	241.S-	2.SS	ppm
BJeiNu	1- 071	244.00	2- P.hS	246.- 2	24- .- -	1.61	ppm
Bbe%wiNu	h71	1.16	1.1P	1.11	1.1y	- .1-	ppm
Biau NtE	2Sh71				1Sh		G
Biau NtE	2Sh72				1S-		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.y-	1.h-	1.2P	1.yP	2S.hS	ppm
UJdu iNu	1S671	S.1-	7- .- h	72.60	71.hP		ppm
UJdu iNu	11171	1.- 1	1.20	1.41	1.- -	y.2y	ppm
UJwiNu	4- 71	2S0hh.6P	2S444.y4	2Sh04.- S	2S0- h.y1	1.- S	ppm
UJwiNu	4471	212yP.14	2ShSS.04	21y01.1S	2124- .- -	1.yP	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEWeiob	- y71						cpa
UEWeiob	- y72						cpa
UEeOu iNu	y272	21.14	1P.1y	1P.02	1h.- 4	P.2-	ppm
UOmJw	yh72	P.4P	0.64	0.yh	0.hS	6.- 2	ppm
UOppbe	6- 72	26.6P	22.6-	2- .2S	24.10	h.S6	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S2		G
IodiNu	11y71				1SP		G
IodiNu	11y72				h6		G
IeOo	y472	2S- y- .6h	1021P.h0	104y- .44	1P- 42.S-	h.y2	ppm
IeOo	y672	2Sh41.0h	1P- S- .0S	1P0Sh.40	1h- 1P.- 2	0.- y	ppm
IeOo	y072	1h6h0.44	10Shh.P4	104SS.0-	1PS66.SS	0.P6	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	64.yy	64.22	64.y2	64.4-	S.2P	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	61.04	62.Sy	61.6P	61.P2	S.- 2	ppm
LbJd	2SP71	62.6y	62.y0	62.06	62.66	S.1y	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	4- 62.- y	- 00h.- -	- h2- .2-	4S21.64	0.yy	ppm
g JovJobab	yy72	4y0.6P	- hy.00	4Sy.- S	41h.yP	0.h4	ppm
g O%mdboNu	h471	- .P4	- .h2	4.2-	4.SS	y.14	ppm
g O%mdboNu	hy71	S.6y	S.0S	S.6h	S.6P	- .04	ppm
g O%mdboNu	h671	S.hh	1.1S	1.S4	1.S4	y.S-	ppm
g O%mdboNu	h071	S.0S	S.66	S.P4	S.0-	1- .10	ppm
g O%mdboNu	hP71	S.64	S.02	S.0S	S.6h	6.Sh	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	1y.Py	14.SS	14.2S	14.6P	6.h1	ppm
I EOapEOeNa	- 172	1- 00.P2	1SPy.- 2	1S- 6.Py	1166.66	1y.P1	ppm
I OtJaaiNu	- h72	- 62- .h-	- 1- h.4y	- 2- 6.04	- - - - .- 0	0.6h	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				1SS		G
r cJodiNu	4y71				1Sy		G
r cJodiNu	4y72				h2		G
r bwboiNu	P271	S.4S	S.00	S.6h	S.62	- S.h6	ppm
r bwboiNu	0072	2S.S0	2y.2y	22.h1	22.04	11.41	ppm
r bwboiNu	0P72	y.yh	4.21	4.6-	4.P1	14.02	ppm
r iwcOo	2P71	164.0-	162.0h	16P.16	16y.22	1.6y	ppm
r iwRbe	1S071	S.- 6	S.- h	S.- y	S.- 0	y.1P	ppm
r iwRbe	1Sh71	S.- h	S.- 0	S.- P	S.- P	2.y0	ppm
r OdiNu	2- 72	20y.hP	220.12	2- 0.Sy	246.02	1S.40	ppm
r teOotiNu	P671	2SP.00	2Sy.S0	2S- .hS	2Sy.h2	1.24	ppm
r teOotiNu	PP71	221.P0	212.y6	212.- 0	21y.6S	2.y2	ppm
r NwNe	- 471	7212P.0P	72- 46.P6	71P26.- -	721SS.66		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S1		G
TEJwiNu	2S- 71	S.2S	S.1P	S.21	S.2S	0.P2	ppm
TEJwiNu	2Sy71	S.2S	S.1h	S.2S	S.2S	1.S6	ppm
Tio	11P71	2.61	2.- 6	2.y1	2.4h	y.S6	ppm
TitJoiNu	4071	hS.S0	hS.1h	h2.16	hS.PS	1.2h	ppm
F eJoiNu	2- P71	1.2S	1.26	1.26	1.24	2.64	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- 4.P-	- S.60	- S.64	- 2.Sy	0.y-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1SS		G
Zioc	6672	14S.yh	11h.14	12S.6-	126.0h	h.4y	ppm
ZiecOoiNu	hS71	1.P4	1.P-	1.P2	1.P-	S.44	ppm
ZiecOoiNu	h171	1.h4	1.P1	1.0-	1.P-	y.hP	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdPP:u sb r :9	S0JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	1SN 4U64	1S - 4U6-	1S- JUN4	1S N- US-	2U0	DDe
q5Tb n5%	12171	SU-	SU44	SU4-	SU40	11U02	DDe
qpwr 5cd	0 72	16USN	1 U4S	14U0	1 U	4UJ	DDe
Bspcmb	1- 71	22 U01	104U06	10SUJ	1JSU	16U12	DDe
Bspcmb	1- 071	222U N	10NU-	102U1-	1JSUJ	14U	DDe
Br p%PPmb	J71	1U24	1US	1USS	1U1S	11U21	DDe
Bcwb mTE	2SJ71				11-		G
Bcwb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1UJ4	1U44	2U14	1UN4	1JU1	DDe
v sob cmb	1S671	71U2N	7SU4J	7- U1	71U64		DDe
v sob cmb	11171	2U20	1UN0	1U0	1UJ6	1- UJ2	DDe
v sPdcmb	4- 71	4041- U4	- 0664U2	- 6J4- UNS	4S60- UN6	14U N	DDe
v sPdcmb	4471	4N66- U61	- J- - - U2	- NS - U1J	42S16U00	1- U0N	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- 71						dDw
v EPmpc5r	- 72						dDw
v Epmb cmb	272	21UJJ	21U46	21U2S	21U	1UNN	DDe
v nesFT	J72	11U N	11U1J	11USN	11U2N	2U2	DDe
v nDDr p	6- 72	- 0U4J	- 6U41	- 6UN-	- 6UJ1	1U4N	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonR5cmb	16S71						dDw
HsonR5cmb	16S72						dDw
h nPb cmb	16 71				114		G
h nPb cmb	16 72				1S6		G
t5ocmb	11 71				111		G
t5ocmb	11 72				1SS		G
tpn5	472	2JS06U1-	2J- S0US1	2NN6SU61	2JSN1U2	SU00	DDe
tpn5	672	2J6J4U0-	2N6J0U-1	2N262U2-	2NNN4U06	2U4	DDe
tpn5	072	20 - U0J	20122U4N	26 - UJ4	20S06U04	1UN	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	- 0U2J	- SU2	2NUN	- 2U1-	14USN	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:u sb r :9	S0JqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- 4U J	2NU14	20U6	- SUS-	1- U21	DDe
Lr so	2SN71	- U S	2NUJ1	2NU	- SUJ2	12UN	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	2S02NUJ4	2S2- 2UJ	1J66NU4J	2S21SU1-	2U6-	DDe
y s5Ms5r wr	72	64JUN2	642U1	62 UJ2	6- JUS	1UJ1	DDe
y nP%eor 5mb	J471	4UJ-	4U0	4US2	4U44	1SU6	DDe
y nP%eor 5mb	J 71	1U N	1U-	1U6	1U42	JU66	DDe
y nP%eor 5mb	J671	1UJ0	1U0	1U 1	1U04	1- UN	DDe
y nP%eor 5mb	J071	1U62	1UN	1U22	1U41	14U42	DDe
y nP%eor 5mb	JN71	1U6-	1U22	1U1	1UJ	1 U	DDe
u r no%b cmb	1 S71						dDw
u r no%b cmb	1 S72						dDw
u dkr P	6S72	20UN6	26U06	26U	20US6	2U61	DDe
8 EnwDEnpmw	- 172	46- NU6	4N2NUN	4626UJS	46JNUS	2U41	DDe
8 nTswwcmb	- J72	4S- 6UJ1	- J60U4	- J- 1U61	- J0NU66	1U	DDe
CEnocmb	1S- 71				11S		G
CEnocmb	1S- 72				1S4		G
I ds5ocmb	4 71				1SJ		G
I ds5ocmb	4 72				J0		G
I r P 5cmb	N271	2U4S	2U11	1U0	2US2	2SUN6	DDe
I r P 5cmb	0072	20US1	- - UN	21U1N	20U1J	22U44	DDe
I r P 5cmb	0N72	0U6N	NU4-	6U0-	0U61	11U1J	DDe
I dBdn5	2N71	1J- U2N	142U20	1- 6UJN	1 0U1	1JU04	DDe
I dBr p	1S071	SU2N	SU24	SU22	SU2	11USJ	DDe
I dBr p	1SJ71	SUS	SU22	SU21	SU2	2SU4J	DDe
I nocmb	2- 72	1N4NU24	1N10UNS	100NUS-	1N14U6J	1UJ4	DDe
I Tpm5Tcmb	N671	42JUN2	- 2UNS	- - JU01	- 04U11	1- US1	DDe
I Tpm5Tcmb	NN71	4 2U14	- 61UN0	- 4JU66	- N0UNU	14U4-	DDe
I mPmp	- 471	2S1- USJ	74 - U26	701JU04	2NSUS-	- NUSN	DDe
Ar pecmb	1 J71				114		G
Ar pecmb	1 J72				1S4		G
AEsPBmb	2S- 71	SU2J	SU2	SU22	SU2	14U6	DDe
AEsPBmb	2S 71	SU20	SU21	SU2-	SU24	12UJN	DDe
Ad5	11N71	1US-	SUN1	SU0-	SUN6	1NU N	DDe
AdS5cmb	4071	1S1U4N	NSU0J	06U4N	N6U2	1 U4J	DDe
Rps5cmb	2- N71	NUJ1	6U0J	6U6-	0U2	12U00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tusb r :9	8 N
v Rt 5TI sb DP:t&:9	y h SF- J	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:usb r :9	S0JqC. Fwb

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	172	44U1N	42US6	41U64	42U6-	- U2S	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11		G
YTTpomb	NJ72				1S		G
Zd5d	6672	206U0	201UN-	260U-1	201UJ6	1U04	DDe
Zqpdn5omb	JS71	2U16	1UN4	1UN-	1UJ4	JU	DDe
Zqpdn5omb	J171	2U10	1UN2	1U00	1UJ2	11U10	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1122y.60	1Sy06.- 1	1119y.- S	111- 1.06	1.22	ppm
Aotiu Ooh	12171	S.26	S.4S	S.- 2	S.- -	2S.%9	ppm
Aesboic	0%72	22.29	22.%9	2- .S6	22.64	1.0%	ppm
BaeiNu	1- %71	14S.99	1y9.1%	161.10	166.0-	10.42	ppm
BaeiNu	1- 071	14- .11	2S2.y6	16S.%4	169.90	19.2-	ppm
BbehlliNu	y71	1.29	1.69	1.- 9	1.4%	14.26	ppm
Bisu NtE	2Sy71				y0		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	1.1-	2.- 2	1.4%	1.6-	- 0.y4	ppm
Uadu iNu	1S671	7S.%y	72.- -	7S.9-	71.2%		ppm
Uadu iNu	11171	1.Sy	1.46	1.1-	1.22	16.62	ppm
UalciNu	4- 71	6626- .40	y0S%4.42	099yy.%S	9S0- y.1-	1y.10	ppm
UalciNu	4471	602- - .y1	y4999.6-	00S9%49	0y0- 6.S1	10.%9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%2772	1y.0y	1y.1-	1y.4%	1y.46	1.0S	ppm
UOmalt	%y72	14.%4	14.11	14.- S	14.- 2	1.49	ppm
UOppbe	6- 72	- %%0	- 4.00	- %%0	- %- 1	1.- 1	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				yy		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				y%		G
IodiNu	11%72				y9		G
IeOo	%472	- 0y04.10	- 0- 1S.12	- 09- y.16	- 00S0.92	S.y-	ppm
IeOo	%672	- 0142.6S	- 692%y4	- 0%14.- 6	- 016S.y0	S.y-	ppm
IeOo	%072	- 4y1%%S	- 420S.S6	- %S29.42	- 40- 0.yy	1.19	ppm
KehptOo	9- 71						cps
Lbad	2S671	- 9.9S	%%S%	44.20	46.S4	10.y6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	- 0.S4	%1.6S	41.%%	4- .4S	10.10	ppm
Lbad	2S971	- 9.S9	% .69	42.yy	44.y2	10.06	ppm
LitEiNu	671				99		G
g avobsiNu	2472	10yS4.42	10606.94	1060S.00	100%S.60	S.0%	ppm
g aovaobsb	%%72	- %%6S	- 4y.9-	- %9.40	- %4.6-	1.24	ppm
g OhmdboNu	y471	1S.S9	1- .%S	11.6y	11.06	14.%0	ppm
g OhmdboNu	y%71	1.- y	1.9%	1.61	1.62	14.- -	ppm
g OhmdboNu	y671	2.22	- .S0	2.66	2.6%	16.S2	ppm
g OhmdboNu	y071	1.40	1.06	1.%	1.%y	y.%0	ppm
g OhmdboNu	y971	1.- y	1.90	1.6S	1.62	14.62	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	- 9.26	- 6.- 0	- 0.21	- 0.29	2.%%	ppm
PEOspEOeNs	- 172	1412.2-	14y4.%9	14S2.9S	14- 6.%	- .%1	ppm
POtassiNu	- y72	206- .21	266S.y1	2019.11	2014.S9	1.9y	ppm
n EOdiNu	1S- 71				y4		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				y%		G
r caodiNu	4%72				y6		G
r blboiNu	9271	2.11	1.0-	1.60	1.94	1- .S0	ppm
r blboiNu	0072	- - .46	- - .06	2%46	- S.9y	1%2%	ppm
r blboiNu	0972	6.y4	9.S-	0.91	0.%y	0.%6	ppm
r ilicOo	2971	249.- 4	- - 9.12	20- .91	296.06	16.14	ppm
r ilRbe	1S071	S.2%	S.- 0	S.- S	S.- S	2S.%2	ppm
r ilRbe	1Sy71	S.2%	S.- 1	S.20	S.29	1S.y%	ppm
r OdiNu	2- 72	- 1- %09	- S- 2.y2	- S0%y2	- S91.%4	1.69	ppm
r teOotiNu	9671	- S- .99	42%29	- %6.Sy	- 61.0%	16.9-	ppm
r teOotiNu	9971	- 1y.0S	44- .y0	- 02.16	- 09.61	16.49	ppm
r NfNe	- 471	2140- .9y	- - 946.12	2%16%S-	26929.- %	2- .60	ppm
TbemiNu	1%y71				y9		G
TbemiNu	1%y72				1S2		G
TEalliNu	2S- 71	S.29	S.41	S.- -	S.- 4	1y.12	ppm
TEalliNu	2S%71	S.20	S.42	S.- -	S.- 4	21.%	ppm
Tio	11971	- .6y	%19	4.- %	4.41	16.y9	ppm
TitaoiNu	4071	% .1%	04.19	%9.42	61.y2	10.60	ppm
F eaoiNu	2- 971	- .0S	%1-	4.2%	4.- 6	16.62	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%l72	4y.64	49.12	49.S9	49.62	1.9-	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				yy		G
YtteiNu	9y72				1S2		G
Zioc	6672	16- .12	1%9.- 4	166.6y	162.02	2.%0	ppm
ZiecOoiNu	yS71	4.99	6.y0	%00	%90	10.92	ppm
ZiecOoiNu	y171	%Sy	6.y2	6.S%	6.S2	1%26	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	110hhF24	12S49FS8	11h6hF28	11h- 0FB0	1FS9	l l b
cn&Amon%	12171	SF1h	SF21	SF29	SF22	1- F2h	l l b
crsenAq	0972	6Fh2	0F6S	8FS0	0F9-	0F60	l l b
BarAum	1- 971	18hFS-	1h- F0S	221F4h	2S1F41	8F01	l l b
BarAum	1- 071	188Fhh	1h4Fh4	22SF6h	2S1F94	8F- 6	l l b
Ber%lAum	h71	1F29	1F26	1F- h	1F- S	6F22	l l b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	SF92	SF4-	SF14	SF- 0	9- FhS	l l b
RaOmAum	1S671	74F- 8	71F2-	72F- 0	72F66		l l b
RaOmAum	11171	SF- 1	SF- 6	SF- 0	SF- 9	8F9h	l l b
RalqAum	4- 71	4hh8F1S	91h1F2-	981SF0S	9- - - F- 4	0Fh6	l l b
RalqAum	4471	94- SF26	948- F99	61h0FSh	90S- F64	0F91	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	2SFh1	2SF06	2SFh-	2SFB0	SF49	l l b
Robal&	9h72	0F1h	0FSh	0F22	0F16	SFh9	l l b
Rol l er	6- 72	2SF0h	2SF0S	2SFh0	2SFB2	SF66	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S6		G
DnOAum	11971				1S8		G
DnOAum	11972				1SS		G
Don	9472	22984F60	228S- Fh8	220S2F60	226h0F11	SF48	l l b
Don	9672	222S6F- 0	229- 6F4S	22Sh2F08	22208F92	1FS-	l l b
Don	9072	21S- - Fh4	21210FS1	2S0h8FB0	21S16F61	1FSS	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	29F19	29F26	20F40	29Fh6	9FS9	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	2- F4S	2- F0S	29F9-	24F21	4F06	l l b
LeaO	2S871	24F49	24F98	26F4h	29F18	4F9-	l l b
LA&EAum	671				hh		G
MagnesAum	2472	200SFS4	2018F-	208SF02	2096F- 6	1F21	l l b
Manganese	9972	48- F08	480FSS	482F46	484F41	SF48	l l b
Mol%bOenum	h471	2F69	2F09	- FSh	2F8-	8F29	l l b
Mol%bOenum	h971	SF00	SF60	SF81	SF09	hF29	l l b
Mol%bOenum	h671	SFh9	1FS2	1FSh	1FS2	6F69	l l b
Mol%bOenum	h071	SF0-	SF00	SFh2	SF81	12F24	l l b
Mol%bOenum	h871	SF6h	SF04	SF8S	SF04	0F2h	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	19Fh8	16FSS	16F2S	16FS6	SF0-	l l b
PEosI Eorus	- 172	921F42	9h9F8-	9- 9F48	99SFh1	0F18	l l b
Po&assAum	- h72	262hF06	26hSF- h	2019Fhh	2608F01	1F69	l l b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4971				1S0		G
pqanOAum	4972				h0		G
pelenAum	8271	SF62	SF94	1F1-	SF00	41F61	l l b
pelenAum	0072	4hF- 2	40F6h	9SF6S	4hF2S	2Fh6	l l b
pelenAum	0872	0F96	0F94	0F2h	0F46	2FS2	l l b
pAAqon	2871	1h0F80	2S4F19	2- 1FS-	211FS1	8F- 9	l l b
pAver	1S071	SFS8	SF12	SF1S	SF1S	21F11	l l b
pAver	1Sh71	SFSh	SFSh	SF1S	SF1S	6F86	l l b
poOAum	2- 72	61F- 9	61F90	68F- 4	6- F09	6F2-	l l b
p&ona&um	8671	86F8-	8hFhh	h0F42	h1F41	9Fh9	l l b
p&ona&um	8871	h1F68	h4F06	1S2FSh	h6F10	9F96	l l b
pulfur	- 471	72- 6- Fh9	72421F- 1	71662Fh4	7214hF4S		l l b
i erbAum	19h71				11S		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF2-	SF24	SF20	SF29	8F12	l l b
i EallAum	2S971	SF2-	SF22	SF24	SF2-	- F44	l l b
i An	11871	1F- 1	1F40	1F0-	1F91	14F1S	l l b
i A&anAum	4071	124F9h	12hF41	144F92	1- 2F84	0F8-	l l b
UranAum	2- 871	1F41	1F44	1F9S	1F49	- FS4	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	- - F24	- - F1S	- - F1S	- - F19	SF29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				1S8		G
ZAnq	6672	84F9h	84FS4	89F09	84F0h	1FS-	l l b
ZAqonAum	hS71	1F24	1F- -	1F49	1F- 4	0F02	l l b
ZAqonAum	h171	1F2h	1F28	1F- 4	1F- S	2F48	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1S000. y	11- h1.61	12h16.-	116hy.2	h.42	ppm
Aotiu Oo%	12171	S.yS	S.4h	S.yS	S.4h	1.S2	ppm
Aesboic	0y72	1y.- y	16.4-	1 .h0	16.h1	1S.h	ppm
BaeiNu	1- y71	100.24	1 0.1S	1 2.S0	1 2.14	2.01	ppm
BaeiNu	1- 071	10h.00	1 - .- 1	1 4.- h	1 2.4h	1.- 2	ppm
Bbe%liNu	h71	S. 6	S. 6	S. 2	S. y	2.6S	ppm
Bisu NtE	2Sh71				11S		G
Bisu NtE	2Sh72				hh		G
BeOu iob	171						cps
Uadu iNu	1S 71	2.S2	1.0S	1.-	1.0S	1 .hh	ppm
Uadu iNu	1S671	71.yh	72.- h	72.22	72.S0		ppm
Uadu iNu	11171	1. S	1.00	1.h0	1. y	y.hS	ppm
UalciNu	4- 71	- S- 0- . -	- 1446.- 4	- S- .1h	- S0- 6.12	2.SS	ppm
UalciNu	4471	- 1- 04.24	- 2S1- .11	- 1- 12.SS	- 1y66.4y	1.2-	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- y71						cps
UElOeiob	- y72						cps
UEeOu iNu	y272	2S.- h	21.00	2y.14	22.4-	1S.hS	ppm
UOmalt	yh72	1S.02	11.4y	12. h	11.6h	h.4y	ppm
UOppbe	6- 72	- S. -	- 1. 1	- 6.S1	- 2.	.-	ppm
D%speOsiNu	1y671						cps
D%speOsiNu	1y672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16y71				111		G
MOlu iNu	16y72				h0		G
IodiNu	11y71				1Sh		G
IodiNu	11y72				h2		G
IeOo	y472	- S0S4.- -	- - S26.- -	- 64S1.S0	- - - 00.24	.y	ppm
IeOo	y672	2h h2.1	- 1yS6.0h	- 026 .- 4	- 2 h.1S	11.0h	ppm
IeOo	y072	2 110.Sh	- S2 - . 0	- - h 4.- h	- S0hy.12	h.6-	ppm
Ke%ptOo	- 71						cps
Lbad	2S671	- - .10	- 4.2S	- - .6S	- - .66	1.y4	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S071	- 1.y4	- 2.0h	- 2.Sy	- 2.1-	1.hy	ppm
Lbad	2S 71	- 2.- 6	- - .2y	- 2.42	- 2.6	1.y2	ppm
LitEiNu	671				hh		G
g avobsiNu	2472	1- 4Sy.y0	1- 41.y	16S2 .S0	1442y.S0	h.04	ppm
g aovaobsb	yy72	411.4	4- 6.24	4h6.h4	44 .22	h. 1	ppm
g Ol%mdboNu	h471	- .h-	- .hS	- . y	- .hS	1.1S	ppm
g Ol%mdboNu	hy71	1.06	1.y0	1.6-	1.6y	y. S	ppm
g Ol%mdboNu	h671	1.h6	1.hy	1.	1.h-	2.46	ppm
g Ol%mdboNu	h071	1.y6	1.4	1.yh	1.y4	- .40	ppm
g Ol%mdboNu	h 71	1.0y	1.0h	1.04	1.06	1.4S	ppm
8 bOd%u iNu	1yS71						cps
8 bOd%u iNu	1yS72						cps
8 ickbl	6S72	2h.11	- S.- -	- - .40	- S.h0	0.20	ppm
PEOspEOeNs	- 172	21y2.6	220h.2S	2y46.60	2- 26.1	.6y	ppm
POtassiNu	- h72	- h6y.yS	426y.Sh	40 - .y1	4- - .S4	h.y4	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				h6		G
r caodiNu	4y71				1S0		G
r caodiNu	4y72				h		G
r blboiNu	271	S.	S.	S. 1	S. 6	4.y4	ppm
r blboiNu	0072	1 .yh	20.62	21.h1	22.01	2S.12	ppm
r blboiNu	0 72	4.60	6.- 4	0.60	6.2-	24.10	ppm
r ilicOo	2 71	21S.S0	21y.4h	2S .S2	211.2S	1. -	ppm
r ilRbe	1S071	S.2	S.- 2	S.2h	S.- S	0.Sh	ppm
r ilRbe	1Sh71	S.- S	S.- 2	S.- -	S.- 2	4.64	ppm
r OdiNu	2- 72	1- y.Sy	14 .4S	1 1. y	1yy.1S	1y.yy	ppm
r teOotiNu	671	h0.- 0	h- .12	h6.2S	hy.y0	2.- S	ppm
r teOotiNu	71	1S1.- 1	1SS.04	1SS.10	1SS.04	S.y6	ppm
r NfNe	- 471	71- 40.21	7h06. -	7110- .20	7116y.00		ppm
TbemiNu	1yh71				111		G
TbemiNu	1yh72				h6		G
TEalliNu	2S- 71	S.2h	S.- 4	S.- 1	S.- 1	.S0	ppm
TEalliNu	2Sy71	S.2h	S.2h	S.- S	S.2h	1.42	ppm
Tio	11 71	S.6-	S.60	S.61	S.64	4.h-	ppm
TitaoiNu	4071	0 .yS	1.46	06.- 4	0 .00	- .26	ppm
FeaoiNu	2- 71	1.h4	2.Sy	2.S	2.S2	- . S	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y172	46.0h	4h.1h	y4.hy	yS.- 1	.- -	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	h71				111		G
YtteiNu	h72				h4		G
Zioc	6672	1h1. 0	2S- . 1	220.yh	2S0.06	.0y	ppm
ZieoOoiNu	hS71	1.- 6	1.41	1.- 4	1.- 0	2.	ppm
ZieoOoiNu	h171	1.4-	1.-	1.2-	1.- y	0.y-	ppm

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LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20:2	7 1yN.27	71 N4.1N	71 77.0	71y0y. y	2.S	DDe
qCTb 5Ch	121:1	4y .44	4y2.S4	4NS.	4NN.61	1.40	DDe
qpwr Ccl	07:2	720.62	722.6y	717.62	721.yN	1.16	DDe
Bspcmb	1 7:1	24yy.yS	24yS.27	24N4.N	24y1.66	S. 1	DDe
Bspcmb	1 0:1	24NN.7N	240N.2N	241S.66	247y.10	1.02	DDe
Br phPmb	y:1	47y.N7	404.N2	460.02	460.46	1.6S	DDe
Bcwb mT%	2Sy:1				yN		E
Bcwb mT%	2Sy:2				y		E
Bp5b cCr	N1:1						dDw
3 sob cmb	1SN:1	4yS. 2	4yS.SS	4y0.22	4y2.71	S.N	DDe
3 sob cmb	1S6:1	4yN.12	4N .y2	402.N6	4N4.y0	2.61	DDe
3 sob cmb	111:1	4Ny.7N	4N6.S2	400.17	4N4.27	1. 2	DDe
3 sPlcmb	4 :1	2714y .02	24y1N1.1y	24 N4S.S	24N101.67	1.7N	DDe
3 sPlcmb	44:1	24SySy.N7	241S21.	24S40y.S4	24SNS .41	S.12	DDe
3 spe5C	12:1						dDw
3 spe5C	12:2						dDw
3 %P5pcCr	7:1						dDw
3 %P5pcCr	7:2						dDw
3 %p5b cmb	72:2	4yy.1y	4y .47	4N0.y6	4y .7	1.14	DDe
3 5esPT	7y:2	4yy.N4	4y4.7N	4yS.y4	4y7.12	S.yS	DDe
3 5DDr p	6 :2	72y0. N	7 SN. 1	7 26.26	7 1S.67	S.20	DDe
&hwDp5wcmb	176:1						dDw
&hwDp5wcmb	176:2						dDw
Gpecmb	164:1						dDw
Gpecmb	164:2						dDw
Hso5PlCcmb	16S:1						dDw
Hso5PlCcmb	16S:2						dDw
K5Pb cmb	167:1				1S2		E
K5Pb cmb	167:2				yN		E
tCocmb	117:1				y0		E
tCocmb	117:2				Ny		E
tp5C	74:2	1 S010.6N	12y70S. 4	12N7N0.47	12y627.16	S.N2	DDe
tp5C	76:2	1 S1y4.61	1 1217.	12yS24.2N	1 S144.04	S.N4	DDe
tp5C	70:2	1 10N. 1	1 16y .06	1244S1. S	12y070.0y	.62	DDe
k phDT5C	N :1						dDw
Lr so	2S6:1	2402.	24 6.y	247y.y4	2476.4S	S.0	DDe

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Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0:1	24y2. N	246S.07	24N .yS	240y.S1	S.66	DDe
Lr so	2SN:1	24yS.Ny	24y0. y	27S0. 4	24yN.74	S.	DDe
LdP%mb	6:1				NN		E
MsgOr wmb	24:2	26444N.y4	261727.1y	26S077.26	26224 .1	S.04	DDe
MsOgsOr wr	77:2	72y1. 7	7260.6y	7207.SS	720N.S2	S.2	DDe
M5Pheor Omb	y4:1	4N44.21	4N .N1	4y 2.N1	4N0S.2N	1.12	DDe
M5Pheor Omb	y7:1	4N2N.S0	4N71.26	7S2N.1y	4yS2.71	2.2	DDe
M5Pheor Omb	y6:1	406y.44	4y21.Ny	7S 4.N1	4ySN.01	2.01	DDe
M5Pheor Omb	y0:1	4N47.7	4yS7. 0	7SS4.2N	4y1N. y	1.6	DDe
M5Pheor Omb	yN:1	4yS7.N	4y22.S6	7S7 .06	4y6S.77	1.64	DDe
ur 5ohb omb	17S:1						dDw
ur 5ohb omb	17S:2						dDw
udfr P	6S:2	7S0.2	7SN.71	7SN.S1	7S0.y2	S.1	DDe
8 %5wD%5pmw	1:2	yy2y.y0	y6 1.21	y0yy.4y	y0N6.Ny	1.7	DDe
8 5Tswwmb	y:2	1202Sy.17	12N1y .yy	126S7y.74	120174.2	S.N4	DDe
R%5omb	1S :1				y2		E
R%5omb	1S :2				Ny		E
I dsOomb	47:1				y4		E
I dsOomb	47:2				NN		E
I rPOmb	N2:1	462.44	46y.67	4N6.40	402.N7	2.61	DDe
I rPOmb	00:2	4yy. 7	7SS.2y	711.76	7S .0	1. 7	DDe
I rPOmb	0N:2	720.76	7SN.N4	7S0.N1	714.04	2.16	DDe
I dd5C	2N:1	722.7S	71N.7N	712.0N	710.y7	S.y4	DDe
I dPr p	1S0:1	4N0.0	402.60	406.N2	40y.S0	1.62	DDe
I dPr p	1Sy:1	4N6.44	404.N4	40y.7S	4NS.26	1.22	DDe
I 5omb	2 :2	20SSNy.7	264276.y4	264 2.20	266226.27	1.26	DDe
I Tp5CTomb	N6:1	1220 .41	12170.S7	120 1.67	12 N0. 0	2.47	DDe
I Tp5CTomb	NN:1	12SN0. 0	12Sy2.10	12260.10	1214N.yS	S.N4	DDe
I mPVp	4:1	y000.NS	y211.12	NN24.6y	y201.2S	7.10	DDe
Ar pemb	17y:1				1S		E
Ar pemb	17y:2				y0		E
A%sPmb	2S :1	71 .24	4yy. 7	4y0.20	7S .2y	1.0	DDe
A%sPmb	2S7:1	7S0.6S	4y4.24	7S1.24	7S1.S	1.	DDe
AdC	11N:1	40N.yy	7S2.1y	4N1.y2	4N0.0S	2.7y	DDe
AdSOmb	40:1	7S47.42	7S6 .72	4y00.77	7S2N.N	S.yS	DDe
UpsOmb	2 N:1	7S1.S4	7SS.2S	710.y	7S6. y	1.yN	DDe

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LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DrP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 RrCT9l sb DrP9l&9J9	3 3 - S27	&drmT5C9FsdT5p9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdrP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	71:2	72N.N6	724.7y	722.66	727. 0	S.6S	DDe
YTTr peomb	102:1						dDw
YTTr peomb	102:2						dDw
YTTr peomb	106:1						dDw
YTTr peomb	106:2						dDw
YTTpomb	Ny:1				yN		E
YTTpomb	Ny:2				y1		E
ZdCd	66:2	7S00.42	4yy4.y6	7S14.16	7S2N.N7	S.N6	DDe
Zqpd5Comb	yS:1	400. N	4y .yS	4y0.N4	4Ny.01	2.22	DDe
Zqpd5Comb	y1:1	461.S0	466.S6	40N.yN	46N.01	1.y0	DDe

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Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	20 2	1.y7	2.S6	1.- y	1.86	17.2S	I I b
c 5&Amn5h	121 1	S.1y	S.21	S.26	S.22	1- .70	I I b
c rse5Aq	0- 2	S.S2	S.S7	S.S2	S.S2	21.46	I I b
BarAum	17- 1	S.1-	S.14	S.1-	S.14	7.47	I I b
BarAum	170 1	S.17	S.16	S.27	S.10	28.21	I I b
BerhllAum	y 1	S.S0	S.S6	S.S0	S.S0	6.y8	I I b
BAsmu&%	2Sy 1				1S-		E
BAsmu&%	2Sy 2				1S4		E
BrnmA5e	81 1						ql s
3 aOmAum	1S8 1	S.10	S.1S	S.S6	S.SS	7111.14	I I b
3 aOmAum	1S6 1	- .S8	- .2S	- .64	- .71		I I b
3 aOmAum	111 1	S.S7	S.S6	S.S1	S.S7	6y.82	I I b
3 alqAum	47 1	16.y2	16.Sy	12.81	1- .28	14.24	I I b
3 alqAum	44 1	26.- S	7S.46	27.- -	26.84	12.y1	I I b
3 arbn5	12 1						ql s
3 arbn5	12 2						ql s
3 %nrA5e	7- 1						ql s
3 %nrA5e	7- 2						ql s
3 %nmAum	- 2 2	S.S1	S.S-	S.S0	S.S4	64.y2	I I b
3 nbal&	- y 2	S.S2	S.SS	S.SS	S.S1	11S.21	I I b
3 nI I er	67 2	S.62	S.6S	S.- 0	S.6S	4.- 6	I I b
t hsI rnsAum	1- 6 1						ql s
t hsI rnsAum	1- 6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
GaOnIA5Aum	16S 1						ql s
GaOnIA5Aum	16S 2						ql s
HnImAum	16- 1				1S-		E
HnImAum	16- 2				1S7		E
D5OAum	11- 1				1S7		E
D5OAum	11- 2				y0		E
Dn5	- 4 2	- .78	7.27	6.22	4.y4	71.16	I I b
Dn5	- 6 2	- .Sy	7.yS	4.77	4.44	17.- 8	I I b
Dn5	- 0 2	6.46	4.88	4.4y	- .28	1y.06	I I b
Krhl &a5	87 1						ql s
LeaO	2S6 1	S.2S	S.21	S.18	S.2S	y.0-	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
LeaO	2S0 1	S.24	S.21	S.22	S.22	- .- -	I I b
LeaO	2S8 1	S.24	S.22	S.2S	S.22	0.- S	I I b
LA%Aum	6 1				y7		E
Mag5esAum	24 2	0.- 8	0.72	8.S4	0.6-	4.04	I I b
Ma5ga5ese	- - 2	S.22	S.2S	S.22	S.21	6.4S	I I b
MnlhbOe5um	y4 1	S.- y	S.- 6	S.- 1	S.- -	0.60	I I b
MnlhbOe5um	y- 1	S.67	S.- 8	S.- S	S.- 0	11.60	I I b
MnlhbOe5um	y6 1	S.64	S.- 8	S.- 2	S.- 8	1S.10	I I b
MnlhbOe5um	y0 1	S.64	S.6S	S.- 2	S.- 8	1S.88	I I b
MnlhbOe5um	y8 1	S.60	S.- -	S.- S	S.- 8	1- .S1	I I b
NenOhmAum	1- S 1						ql s
NenOhmAum	1- S 2						ql s
NAqkel	6S 2	S.S7	S.S1	S.S8	S.S4	8- .18	I I b
P%nsI %nrus	71 2	71.- S	- 7.Sy	4- .10	47.2-		I I b
Pn&assAum	7y 2	28.yy	22.6-	7- .76	2y.SS	21.yS	I I b
R%nOAum	1S7 1				1S1		E
R%nOAum	1S7 2				1S2		E
pqa5OAum	4- 1				1SS		E
pqa5OAum	4- 2				y2		E
pele5Aum	82 1	S.22	S.S6	S.21	S.12		I I b
pele5Aum	00 2	S.78	S.78	S.0y	S.S1	- 2y0.S0	I I b
pele5Aum	08 2	S.7S	S.07	S.- 2	S.- 2		I I b
pAAqn5	28 1	S.10	S.26	S.14	S.1y	71.24	I I b
pAver	1S0 1	S.S4	S.S4	S.S7	S.S4	14.0S	I I b
pAver	1Sy 1	S.S4	S.S7	S.S7	S.S4	1y.64	I I b
pnOAum	27 2	08.S7	0S.- 8	07.41	04.S1	- .S8	I I b
p&n5&Aum	86 1	S.y8	S.86	S.60	S.84	1y.S0	I I b
p&n5&Aum	88 1	S.y2	S.04	S.0-	S.8S	12.64	I I b
pulfur	74 1	12y7.28	8SS.S1	1S28.88	1S4S.02		I I b
i erbAum	1- y 1				1S4		E
i erbAum	1- y 2				1S1		E
i %allAum	2S7 1	S.1y	S.1y	S.10	S.18	0.64	I I b
i %allAum	2S- 1	S.1y	S.1y	S.18	S.18	7.07	I I b
i A5	118 1	S.SS	S.S1	S.S7	S.SS		I I b
i A&a5Aum	40 1	S.77	S.77	S.42	S.76	14.- 1	I I b
Ura5Aum	278 1	S.S4	S.S7	S.S2	S.S7	20.16	I I b

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Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	- 1 2	S.S1	S.SS	S.S1	S.S1	40.46	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8y 1				1S1		E
Y&&Aum	8y 2				y6		E
ZA5q	66 2	S.12	S.20	S.70	S.2-	48.y-	I I b
ZAqn5Aum	yS 1	S.S-	S.S2	S.S4	S.S4	42.42	I I b
ZAqn5Aum	y1 1	S.S7	S.S1	S.S7	S.S2	67.2S	I I b

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LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPP:u sb r :9	SN6qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	12 4- US-	1- 2 1U1N	12 06U2	1- S0SU10	1U40	DDe
q5Tb n5%	12171	SUJ J	SU6S	SUJ6	SUJ0	4U2N	DDe
qpwr 5cd	0J72	21UN4	2SU24	21U02	21U20	4U2S	DDe
Bspcmb	1- J71	2J2U2S	2J2U-0	2641U6S	2J6U	2U00	DDe
Bspcmb	1- 071	2J6U4S	2JJUN-	2641U0	2J USS1	1U 4	DDe
Br p%PPmb	71	1U12	1US	1U1-	1U11	1UN0	DDe
Bcvb mTE	2S 71				1S6		G
Bcvb mTE	2S 72				1S4		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U26	1U42	1U 2	1UN0	22U44	DDe
v sob cmb	1S671	72USS	71U J	71U4N	71UN1		DDe
v sob cmb	11171	1UN-	1UN6	1U -	1UN0	2U01	DDe
v sPdcmb	4- 71	J20S0U21	J1N- 0U2J	J1 - 4U44	J21J U6-	SU 1	DDe
v sPdcmb	4471	J- 04 UN2	J- 4NU	J44 1UJJ	J4S6- U4J	SU01	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- J71						dDw
v EPmpc5r	- J72						dDw
v Epmb cmb	J272	21UJ6	21U0	21UJ6	21U64	SU61	DDe
v nesPT	J 72	1- U 1	14U-1	14U10	14U1-	1U46	DDe
v nDDr p	6- 72	- 2U22	- 2U02	- 1U -	- 2U2	1U24	DDe
&%wDpnwcmb	1J671						dDw
&%wDpnwcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16J71				1SN		G
h nPb cmb	16J72				1S4		G
t5ocmb	11J71				1S-		G
t5ocmb	11J72						G
tpn5	J472	- J J- UJS	- 6SN6U2	- J4 NU00	- JN46U1	SUN6	DDe
tpn5	J672	- 62N0US-	- J461U0J	- J- 0- UJJ	- J0S0U44	1U41	DDe
tpn5	J072	- - - 2- US1	- - - J1UN2	- - 1 2US-	- - 2NNU J	SU26	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	4SU6	- U4	- U6	4SU2	1U4J	DDe

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Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPP:u sb r :9	SN6qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- NUJ0	- 0UNN	- NUJ6	- NU2S	SU0-	DDe
Lr so	2SN71	- UJ-	- NU0S	- U11	- US4	SUN2	DDe
LdEomb	671				6		G
y sM5r womb	2472	1- 16JUN4	1- 00- UJ0	1- 2N- USN	1- 4S0U4-	2U4S	DDe
y s5Ms5r wr	JJ72	4 0U6	JS- U06	4 NUJ0	JSSUS1	SU66	DDe
y nP%eor 5mb	471	JUS1	4U06	4U00	4UNJ	2U 0	DDe
y nP%eor 5mb	J71	2UN-	2UJ-	2UJS	2U62	6U -	DDe
y nP%eor 5mb	671	- US6	2UNJ	2UJ	2UN-	NUJS	DDe
y nP%eor 5mb	071	2U0	2U6N	2U44	2U64	6U00	DDe
y nP%eor 5mb	N71	2U -	2U62	2U40	2U60	NU0S	DDe
u r no%b omb	1JS71						dDw
u r no%b omb	1JS72						dDw
u dkr P	6S72	- JU4J	- JUN1	- JUNN	- JU01	SU66	DDe
8 EnwDEnpmw	- 172	1201U02	12J U60	1241U	12J0U0	1U1	DDe
8 nTswwomb	- 72	- 10SUS-	- 2- 2U41	- 1N6U0J	- 1 6U4S	1US1	DDe
CEnoomb	1S- 71				1S1		G
CEnoomb	1S- 72				1S2		G
I ds5oomb	4J71				1S-		G
I ds5oomb	4J72				6		G
I r P 5omb	N271	1UJ-	SU02	SUJ6	1USS	- SU64	DDe
I r P 5omb	0072	- JU2S	24UJ1	2 U4S	2 U0S	1NUS-	DDe
I r P 5omb	0N72	JUS6	JUJ	JUJ1	JUJ1	NU1S	DDe
I dBdn5	2N71	2- 2UJ-	226UJ4	22 US4	22 UJS	1U4S	DDe
I dBr p	1S071	SUJ	SUJ0	SUJN	SUJN	- U14	DDe
I dBr p	1S 71	SUJ0	SUJ0	SUJ	SUJN	- UJ	DDe
I nomb	2- 72	2N0U4J	2 6U6S	20JUNS	2N6U61	- U64	DDe
I Tpm5Tomb	N671	1J1US-	14NU1J	14JUJN	14NU1	1U 1	DDe
I Tpm5Tomb	NN71	1J6USS	1J4U0N	1J1U64	1J4U14	1U46	DDe
I mPmp	- 471	7 J0USJ	71S41U01	71SJ6U0J	71S1NUJS		DDe
Ar peomb	1J 71				1S0		G
Ar peomb	1J 72				1S-		G
AEsPBmb	2S- 71	SUJ4	SUJ-	SUJ1	SUJ-	2UJ6	DDe
AEsPBmb	2SJ71	SUJ0	SUJ6	SUJ4	SUJ6	2U	DDe
Ad5	11N71	SU02	SU04	SU02	SU0-	1U01	DDe
AdS5omb	4071	JJUJ1	JJUN4	JJU61	JJUJN	SU4N	DDe
Rps5omb	2- N71	2U41	2UJ4	2UJ-	2UJ6	1U02	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DPr:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPr:t&:9	y h SF40	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPr:u sb r :9	SN6qC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	J172	J6UJ	JNUJ	J6U14	J0U11	2U2N	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				1S0		G
YTTpomb	N 72				1S4		G
Zd5d	6672	16NU0S	101UJ	160U0J	16 U40	1US	DDe
Zqpdn5omb	S71	1U4N	1U64	1UJJ	1UJ6	JU22	DDe
Zqpdn5omb	171	1UJ	1UJ6	1U40	1U40	JU0	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1yP06.- -	1yh22.1S	1yh2P.P6	1yhSh.1S	S.1P	ppm
Aotiu Oo%	12171	1.1-	1.10	1.1-	1.14	1.06	ppm
Aeaboic	0y72	- 0.6S	- h.66	4S.Sh	- h.12	- .4S	ppm
BJeiNu	1- y71	46- .4P	46P.h0	4Py.1-	402.y-	2.- P	ppm
BJeiNu	1- 071	40S.2P	40S.62	4P6.62	40y.P4	1.h6	ppm
Bbe%wiNu	h71	2.SS	1.h2	1.Ph	1.h4	- .S-	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	- .0h	2.04	- .24	- .26	16.11	ppm
UJdu iNu	1S671	7S.1S	71.2-	S.P1	7S.1P		ppm
UJdu iNu	11171	2.00	- .SP	- .Sh	2.hP	6.1y	ppm
UJwiNu	4- 71	4yP0- .2P	4P- 4P.1S	4601h.y1	46hPS.2h	2.6P	ppm
UJwiNu	4471	4P114.y1	yS- - y.1h	4P1hP.S-	4PPP2.y0	2.y0	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	- S.2y	- S.y1	- S.S6	- S.20	S.04	ppm
UOmJw	yh72	14.4-	14.66	14.0y	14.61	1.11	ppm
UOppbe	6- 72	01.S2	01.1P	0S.62	0S.h4	S.41	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S6		G
IodiNu	11y71				1SP		G
IodiNu	11y72				hh		G
IeOo	y472	- y260.60	- yh1P.64	- y0h6.- 4	- y66S.PP	S.h0	ppm
IeOo	y672	- ySS6.2h	- 464S.2P	- y141.S1	- 4h2h.1h	S.04	ppm
IeOo	y072	- 20S- .S6	- 204h.41	- - - h1.SP	- 2h40.Py	1.10	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	- PP.6P	- 0P.44	- h2.26	- P6.46	1.P6	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	- 0- .yh	- yh.06	- 6h.1y	- 60.yS	1.h2	ppm
LbJd	2SP71	- 06.16	- 6h.- y	- 0h.Py	- 0y.12	1.42	ppm
LitEiNu	671				hP		G
g JvobaiNu	2472	h02y.S6	h000.41	1SS46.00	hP4h.0y	1.0y	ppm
g JovJobab	yy72	12S6.h6	121h.- y	122- .01	1216.60	S.01	ppm
g O%mdboNu	h471	0.- 0	0.hh	P.1y	0.P4	y.2y	ppm
g O%mdboNu	hy71	2.2h	2.44	2.20	2.- -	- .hP	ppm
g O%mdboNu	h671	- .S4	- .S-	2.0S	2.h2	6.06	ppm
g O%mdboNu	h071	2.- y	2.- h	2.46	2.4S	2.- S	ppm
g O%mdboNu	hP71	2.- 0	2.- 0	2.41	2.- P	S.h1	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	- S.yP	- S.4y	- 1.2P	- S.00	1.46	ppm
I EOapEOeNa	- 172	y422.16	y4S1.Py	y20P.Sh	y- 60.- 0	1.4y	ppm
I OtJaaiNu	- h72	h240.yh	h2P4.hS	hy1h.04	h- yS.04	1.yP	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r cJodiNu	4y71				1S0		G
r cJodiNu	4y72				h6		G
r bwboiNu	P271	1.S1	S.64	1.- 4	1.SS	- 4.hP	ppm
r bwboiNu	0072	2P.20	- 1.12	- 0.P4	- 2.41	1y.16	ppm
r bwboiNu	0P72	0.h2	6.6S	0.hy	0.4h	1S.20	ppm
r iwcOo	2P71	2- 2.41	24S.2-	2- 4.0-	2- y.0h	1.0S	ppm
r iwRbe	1S071	1.SS	1.S2	1.Sy	1.S2	2.01	ppm
r iwRbe	1Sh71	S.h6	1.SS	S.hP	S.hP	1.h4	ppm
r OdiNu	2- 72	2- 2.4P	22y.12	222.4P	226.6h	2.2h	ppm
r teOotiNu	P671	- - 2.y1	- - h.0y	- - P.y6	- - 6.h4	1.1y	ppm
r teOotiNu	PP71	- 4P.S2	- 4P.21	- 4- .h-	- 46.02	S.0S	ppm
r NwNe	- 471	41.6-	yS6.PP	4S.y-	1h6.- 4	1- 6.h0	ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S-		G
TEJwiNu	2S- 71	S.44	S.4S	S.41	S.41	y.14	ppm
TEJwiNu	2Sy71	S.- h	S.41	S.4-	S.41	y.S6	ppm
Tio	11P71	0.yh	0.4h	0.6h	0.yh	1.- 1	ppm
TitJoiNu	4071	1P6.y0	1h0.04	1hS.- 4	1h1.yy	2.h0	ppm
F eJoiNu	2- P71	2.S0	2.Sy	2.16	2.Sh	2.0-	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	6S.hh	6S.6S	61.hh	61.1h	1.10	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1S6		G
Zioc	6672	6SS.2P	yh- .6-	6S1.h-	yhP.61	S.0-	ppm
ZiecOoiNu	hS71	- .11	- .- 0	- .- 1	- .26	4.12	ppm
ZiecOoiNu	h171	- .- h	- .- P	- .2-	- .- -	2.yh	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1- 21- .- 1	1- Shh.12	12P2y.0P	1- S- 2.04	1.4P	ppm
Aotiu Oo%	12171	S.PP	S.PS	S.P0	S.Ph	4.0-	ppm
Aeaboic	0h72	- 4.10	- 6.12	- h.44	- h.24	2.P1	ppm
BJeiNu	1- h71	42- .16	- y4.1S	- y1.21	4S2.P2	4.- y	ppm
BJeiNu	1- 071	414.P0	- yP.4S	- P0.yh	4SS.41	- .- y	ppm
Bbe%wiNu	y71	1.6-	1.02	1.02	1.6y	2.P6	ppm
Biau NtE	2Sy71				1S0		G
Biau NtE	2Sy72				1Sh		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.- 4	2.20	2.26	2.2y	1.0h	ppm
UJdu iNu	1S671	S.P0	71.02	1.40	S.21	P24.16	ppm
UJdu iNu	11171	2.06	2.6-	2.04	2.01	2.6h	ppm
UJwiNu	4- 71	2S62y.06	1yh21.66	1y2PP.- 0	1yP1- .20	- .62	ppm
UJwiNu	4471	21h- h.P4	2S- 1- .1h	2SS14.h0	2S621.1P	- .y1	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	1y.h4	1y.66	1P.Py	1y.- 6	2.12	ppm
UOmJw	hy72	14.44	14.4S	14.2P	14.- 0	S.hh	ppm
UOppbe	6- 72	hh.16	h- .PS	h- .P0	h4.2P	1.42	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sh		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				yy		G
IeOo	h472	- SSPy.21	2yPhh.2-	2yhy4.0P	2yP46.41	S.P-	ppm
IeOo	h672	- S226.2-	2y4S1.60	2yS- P.26	2yhhh.- y	2.S6	ppm
IeOo	h072	20061.h0	20002.41	20Sy1.P-	20h41.y4	1.42	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	20S.y0	- S- .0-	2yh.- 0	2yS.S2	h.P0	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	262.22	266.- 6	2h- .y0	26S.Ph	2.42	ppm
LbJd	2SP71	2Ph.- 6	2y2.20	2PP.0P	2PP.PS	1.2S	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	hS2y.4P	4y0S.4y	4P44.- h	4y4P.11	1.y1	ppm
g JovJobab	hh72	1S4S.2y	1S24.6P	1SSy.1P	1S24.01	1.h2	ppm
g O%mdboNu	y471	0.26	0.- y	0.26	0.- S	1.S1	ppm
g O%mdboNu	yh71	1.P0	1.y2	1.P4	1.P0	2.16	ppm
g O%mdboNu	y671	2.40	2.41	2.h1	2.46	2.S2	ppm
g O%mdboNu	y071	1.y6	1.y1	1.y1	1.y-	1.6S	ppm
g O%mdboNu	yP71	2.S6	1.y1	1.0-	1.yS	P.P2	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.6S	2P.14	20.4h	20.0-	1.- S	ppm
I EOapEOeNa	- 172	41Sy.hS	- y1S.SP	41- 4.yS	4Sh1.4y	- .S4	ppm
I OtJaaiNu	- y72	60- S.0y	6016.26	6hy2.P4	660y.y0	1.1-	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1S-		G
r cJodiNu	4h71				1S-		G
r cJodiNu	4h72				y6		G
r bwboiNu	P271	S.y-	S.P-	1.2h	1.SS	21.06	ppm
r bwboiNu	0072	- - .0y	4- .- 0	2S.26	- 2.40	- h.00	ppm
r bwboiNu	0P72	6.- 2	6.66	h.yS	6.2y	6.S2	ppm
r iwcOo	2P71	24h.0h	2- 6.0P	2- 4.yh	2- y.16	2.42	ppm
r iwRbe	1S071	S.0-	S.01	S.06	S.0-	- .1S	ppm
r iwRbe	1Sy71	S.P1	S.04	S.06	S.00	4.6h	ppm
r OdiNu	2- 72	106.h6	106.S4	10- .1h	10h.2h	1.Sh	ppm
r teOotiNu	P671	161.Ph	1hy.y0	1h0.P4	1hy.Py	1.26	ppm
r teOotiNu	PP71	104.S2	164.- 2	16P.2y	16P.PP	2.Py	ppm
r NwNe	- 471	761h.hS	7126S.- 2	71h16.h6	711- S.0y		ppm
TbemiNu	1hy71				1S0		G
TbemiNu	1hy72				1Sh		G
TEJwiNu	2S- 71	S.- 4	S.- 2	S.- 0	S.- 4	0.46	ppm
TEJwiNu	2Sh71	S.- 4	S.- -	S.- 2	S.- -	1.P0	ppm
Tio	11P71	P.SP	0.PP	0.0y	0.y2	1.yS	ppm
TitJoiNu	4071	14y.- 1	14- .Py	14- .01	14h.64	2.1y	ppm
FeJoiNu	2- P71	2.1y	2.1S	2.11	2.1-	2.- P	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	hh.P0	h4.yy	hh.06	hh.h4	S.P6	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				1Sh		G
Zioc	6672	4S2.S6	- y- .SS	- yS.yP	- yh.- h	1.4y	ppm
ZiecOoiNu	yS71	- .- -	- .- y	- .- S	- .- 4	1.- h	ppm
ZiecOoiNu	y171	- .- -	- .4S	- .6-	- .4h	4.6S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	12800U16	1- 104U40	1- 21- U1	1- S88U1	1U4S	I I b
c n&Amon%	1217 1	1U1	1U42	1U4S	1U8	4U90	I I b
c rsenAq	0972	61U5-	66U9-	69U2S	64U99	- U60	I I b
BarAum	1- 97 1	4S- US1	440U55	490U85	4- 6U S	6U0S	I I b
BarAum	1- 07 1	4S5U41	461U2-	498U86	44- U10	6U6S	I I b
Ber%lAum	57 1	1U51	2U18	2U16	2US8	0U28	I I b
BAsmu&E	2S57 1				114		G
BAsmu&E	2S57 2				1S9		G
BromAne	817 1						ql s
v aOmAum	1S87 1	- U29	- U95	- U6S	- U48	9U08	I I b
v aOmAum	1S67 1	1U21	SU19	2U40	1U28	5SU52	I I b
v aOmAum	1117 1	2US6	2U40	2U40	2U -	1SU2-	I I b
v alqAum	4- 7 1	- 8S8SU21	4- 6S2U60	42946U54	414S5U54	0US8	I I b
v alqAum	447 1	- 885SU69	4401SU52	44020U20	42006U28	0U80	I I b
v arbon	127 1						ql s
v arbon	127 2						ql s
v ElorAne	- 97 1						ql s
v ElorAne	- 97 2						ql s
v EromAum	927 2	26U15	26U91	26U69	26U49	SU85	I I b
v obal&	957 2	12U5-	1- U18	1- U98	1- U2-	2U40	I I b
v ol I er	6- 7 2	56U46	50U28	56U40	56U0-	SU45	I I b
t %sI rosAum	1967 1						ql s
t %sI rosAum	1967 2						ql s
. rbAum	1647 1						ql s
. rbAum	1647 2						ql s
HaOolAnAum	16S7 1						ql s
HaOolAnAum	16S7 2						ql s
h olmAum	1697 1				112		G
h olmAum	1697 2				1S4		G
DnOAum	1197 1				1S5		G
DnOAum	1197 2				50		G
Don	947 2	- 252- U41	- - 525U44	- - 6- SU8	- - 454U41	1U94	I I b
Don	967 2	- - 22- U46	- - 6- 4U16	- 295- U60	- - 19SU4-	1U98	I I b
Don	907 2	- S010U25	- 1950U40	- S884U60	- 1S66U40	1U9S	I I b
Kr%l &on	8- 7 1						ql s
LeaO	2S67 1	159U9S	21SU0S	224U11	21SU1S	6U81	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	188U06	2S4U0	219U15	2S2U08	6U99	I I b
LeaO	2S871	2S4U5	22SU01	2- 9U21	22SU11	0U&1	I I b
LA&EAum	671				58		G
y aMhesAum	2472	1- - S0U08	1- 45- U18	1- 152U49	1- - - 1U14	1U14	I I b
y anManese	9972	1- 20U&-	1- - 9U4S	1- - 2U25	1- - 1U90	SU2	I I b
y ol%bOenum	5471	1SU41	11U9S	11U86	11U29	6U0-	I I b
y ol%bOenum	5971	- U4-	- U98	- U64	- U99	- U&S	I I b
y ol%bOenum	5671	4U&-	4U41	4U46	4U S	9U94	I I b
y ol%bOenum	5071	- U12	- U99	- U0-	- U40	5U&9	I I b
y ol%bOenum	5871	- U S	- U90	- U02	- U9-	6U&-	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2U40	- 2U85	- - U2S	- 2U89	1U12	I I b
PEosI Eorus	- 172	25- 6U5S	2848U56	2610U16	28S1U&1	9U5S	I I b
Po&assAum	- 572	468SU1S	4612U45	46- SU54	4641U18	SU09	I I b
CEoOAum	1S- 71				1S0		G
CEoOAum	1S- 72				1S1		G
pqanOAum	4971				1S8		G
pqanOAum	4972				54		G
pelenAum	8271	1U68	1U6	1U45	1U91	1SU8S	I I b
pelenAum	0072	44U08	- 8U44	48U&1	4- U04	11U1-	I I b
pelenAum	0872	1SU1	5U22	1SU94	1SU&2	0U&9	I I b
pAAqon	2871	188U84	218U55	21SU&-	2S9U59	0U92	I I b
pAger	1S071	SU5-	1U12	1U&5	1U&9	5U95	I I b
pAger	1S571	1U&-	1U19	1U14	1U11	6U&2	I I b
poOAum	2- 72	482U54	450U1S	454U9S	451U91	1U9-	I I b
p&ona&um	8671	21- U99	220U48	2- 2U80	224U64	4U44	I I b
p&ona&um	8871	22SU&0	2- 1U89	244U0	2- 2U1S	9U2-	I I b
pulfur	- 471	71698U -	7608U94	7568U0S	711S1U86		I I b
i erbAum	19571				112		G
i erbAum	19572				1S4		G
i EallAum	2S- 71	SU S	SU9	SU5	SU9	1- U&5	I I b
i EallAum	2S971	SU -	SU0	SU8	SU6	0U16	I I b
i A	11871	9U1-	9U80	9U80	9U62	0U95	I I b
i A&anAum	4071	189U4-	2S0U09	2S9U05	155U66	6U15	I I b
RranAum	2- 871	- U&6	- U0	- U66	- U0	8U52	I I b

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LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAn&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUD

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	9172	98U22	95U64	95USS	98U59	1U21	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8571				114		G
Y&&Aum	8572				1S9		G
ZAnq	6672	925U-1	9- 2U45	920U6-	925U81	SU40	I I b
ZAqonAum	5S71	4U91	4U08	4U84	4U01	- U0-	I I b
ZAqonAum	5171	4U46	4U59	9USS1	4U81	6U20	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 I r SstoS:	aswl sP
Lse psb I P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb I P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr I 1	ConRr I 2	ConRr I -	Avg. Conc.	ConcRp X	Unitw
APmb inimb	23O2	N69J.N1	N693.6-	N36- .26	N6J- .93	O.6J	I I e
Antib ony	12101	O.16	O.2O	O.19	O.13	14.94	I I e
ASvr nic	39O2	N.63	N.- O	N.4-	N.43	2.1J	I I e
BsSmb	1- 901	2N3.- 1	236.13	231.4N	23N.- 2	2.J2	I I e
BsSmb	1- 301	2J1.JN	23N.N1	236.9O	2N2.4-	2.J6	I I e
Br SyPmb	J01	2.- 1	2.49	2.- N	2.- N	2.JJ	I I e
Biwb mth	2OJ01				1O6		%
Biwb mth	2OJO2				1O-		%
BSob inr	N101						cl w
Csdb imb	1ON01	1.O2	O.66	O.3-	O.NO	2- .J2	I I e
Csdb imb	1O601	2.6-	01.J6	0O.41	O.ON	236N.4N	I I e
Csdb imb	11101	O.N-	O.32	O.N1	O.3N	3.34	I I e
CsPimb	4- 01	63- 2.69	644O.29	62JJ.6O	64JO.N-	- .4O	I I e
CsPimb	4401	3O- O.N9	63- 1.2-	6NO3.34	6N96.61	2.23	I I e
CsSeon	1201						cl w
CsSeon	12O2						cl w
ChPSnr	- 901						cl w
ChPSnr	- 9O2						cl w
ChSob imb	92O2	3.19	3.29	3.2O	3.2O	O.66	I I e
CoesP	9JO2	6.- 4	6.- O	6.44	6.- 6	1.19	I I e
Col I r S	6- O2	14.12	1- .JN	14.16	14.OJ	O.63	I I e
XywI Sowimb	19601						cl w
XywI Sowimb	196O2						cl w
ESeimb	16401						cl w
ESeimb	164O2						cl w
GsdoPhimb	16O01						cl w
GsdoPhimb	16OO2						cl w
HoPb imb	16901				1O6		%
HoPb imb	169O2				1O9		%
Dndimb	11901				1O-		%
Dndimb	119O2				JJ		%
DSon	94O2	23- 69.N3	2NON2.11	2N- O9.3N	23J13.J2	1.36	I I e
DSon	96O2	266OJ.66	23- J3.63	2343J.O2	23162.12	1.33	I I e
DSon	93O2	291- 2.41	2911J.21	29J62.42	294O4.6N	1.JO	I I e
KSyI ton	N- 01						cl w
Lr sd	2O601	- 3.3-	- 3.22	- 6.11	- 3.O2	2.24	I I e

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Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l IP DX :	5 - 4430O- XL7 2	DnwtSmb nr t usb r :	8 N
CIPr nt psb l IP DX :	MHOF13	XiPntion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Lr sd	2O301	- 6.26	- 9.44	- 4.94	- 9.41	2.44	l l e
Lr sd	2ON01	- 3.N4	- 3.O-	- 6.O3	- 6.JN	2.4O	l l e
Lithimb	601				J6		%
Msgnr wimb	24O2	26N1.2-	264J.9-	26N2.43	2631.ON	O.3O	l l e
Msngsnr wr	99O2	19ON.3O	1919.6J	192- .4N	1919.J6	O.4J	l l e
MoPyedr nmb	J401	2.6O	2.NN	2.61	2.3O	6.O2	l l e
MoPyedr nmb	J901	1.29	1.2N	1.26	1.26	1.22	l l e
MoPyedr nmb	J601	1.9O	1.4-	1.4-	1.49	2.NO	l l e
MoPyedr nmb	J301	1.4O	1.22	1.42	1.- 9	N.ON	l l e
MoPyedr nmb	JN01	1.- O	1.29	1.29	1.23	2.- 6	l l e
u r odyb imb	19O01						cl w
u r odyb imb	19O02						cl w
u ickr P	6O02	11.4O	11.42	11.3O	11.91	1.46	l l e
8 howl hoSmw	- 1O2	6NJ.- 9	623.6N	6O3.J-	641.69	6.62	l l e
8 otswwimb	- JO2	4949.6O	49J6.42	4992.21	4964.39	O.61	l l e
Rhodimb	1O- 01				1O2		%
Rhodimb	1O- 02				1O-		%
p csndimb	4901				1O1		%
p csndimb	49O2				J9		%
pr IPnimb	N201	1.- 2	1.3-	1.- J	1.4N	14.3J	l l e
pr IPnimb	33O2	J6.- N	NJ.O6	JN.- 3	J4.6O	9.1N	l l e
pr IPnimb	3NO2	16.- J	16.6J	13.31	16.J-	4.11	l l e
piPcon	2N01	12N.6J	121.41	113.6N	122.9J	4.93	l l e
piPr S	1O301	O.19	O.13	O.14	O.19	N.NN	l l e
piPr S	1OJ01	O.13	O.16	O.14	O.16	11.22	l l e
podimb	2- O2	4- .J3	- J.JJ	44.41	42.3J	9.6J	l l e
ptSontimb	N601	4- .16	44.O6	42.93	4- .26	1.3-	l l e
ptSontimb	NN01	4- .2-	42.31	42.24	42.3-	1.13	l l e
pmPmS	- 401	011O- .22	0162N.NN	01J21.42	01991.13		l l e
Tr Seimb	19J01				1O9		%
Tr Seimb	19JO2				1O-		%
ThsPPmb	2O- 01	O.- O	O.- 1	O.29	O.2J	1O.1O	l l e
ThsPPmb	2O901	O.2J	O.2N	O.26	O.2N	- .N6	l l e
Tin	11N01	1.61	1.6O	1.9N	1.6O	O.N3	l l e
Titsnimb	4301	2N- .N6	2NO.11	23O.O6	23N.O1	2.93	l l e
USsnimb	2- N01	2.13	2.1-	2.1O	2.1-	1.3-	l l e

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Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Vsnsdimb	91O2	1J.O9	1J.N3	1J.6J	1J.94	2.21	l l e
Yttr Seimb	13201						cl w
Yttr Seimb	13202						cl w
Yttr Seimb	13601						cl w
Yttr Seimb	13602						cl w
YttSmb	NJ01				11J		%
YttSmb	NJ02				12O		%
Zinc	6602	16- .23	193.JN	166.J4	162.3-	2.33	l l e
ZiSconimb	JO01	O.J6	O.NJ	O.JO	O.J2	4.1-	l l e
ZiSconimb	J101	O.J-	O.N4	O.J2	O.JO	9.63	l l e

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LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
CITeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
i lumTbTum	23O2	nO38.96	n864.23	11932.83	1O131.nO	12.94	ppb
i oDTmdoy	12101	O.19	O.16	O.19	O.19	2.- 1	ppb
i rseoTA	39O2	8.68	n.99	1O.88	n.3O	11.- 8	ppb
BarTum	1- 901	236.62	23n.99	2n1.12	282.4-	2.31	ppb
BarTum	1- 301	236.9n	286.29	288.- 4	28- .3-	2.21	ppb
BerylITum	n01	2.4-	2.44	2.41	2.4-	O.4n	ppb
BTsmuDn	2Onn01				11O		%
BTsmuDn	2Onn02				n6		%
BrdmTbe	8101						Aps
CaqmTum	1O801	O.62	1.O8	O.33	O.8-	28.8-	ppb
CaqmTum	1O601	1.- 4	0O.34	0O.n2	0O.11		ppb
CaqmTum	11101	O.8O	O.36	O.83	O.81	6.6n	ppb
CalATum	4- 01	6- nn.O2	6- - 6.83	66O8.9O	6448.1-	2.21	ppb
CalATum	4401	68nO.36	6n91.n-	6839.n2	6nO6.2O	O.98	ppb
Carbdo	1201						Aps
Carbdo	1202						Aps
ChldrTbe	- 901						Aps
ChldrTbe	- 902						Aps
ChrdmTum	9202	3.- 9	3.nn	n.39	8.- 6	14.88	ppb
CdbalD	9nO2	6.48	6.nn	8.- n	3.28	1- .96	ppb
Cdpper	6- 02	1- .46	14.68	13.24	19.1-	12.39	ppb
XysprdsTum	19601						Aps
XysprdsTum	19602						Aps
ErbTum	16401						Aps
ErbTum	16402						Aps
GaqdlTbTum	16O01						Aps
GaqdlTbTum	16O02						Aps
HdlmTum	16901				111		%
HdlmTum	16902				nn		%
IoqTum	11901				1O6		%
IoqTum	11902				n2		%
Irdo	9402	2n33- .63	- 2- - - .81	- 3644.43	- - 29O.69	12.O3	ppb
Irdo	9602	2846n.- 9	- 2133.8n	- 346n.3-	- 23O9.69	1- .8-	ppb
Irdo	9302	2681- .3-	2n89n.O2	- 466O.86	- O444.94	12.nn	ppb
KrypDlo	8- 01						Aps
Leaq	2O601	- 8.O2	- 3.82	- 3.n6	- 3.n-	O.26	ppb

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LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
Leaq	2O301	- 9.66	- 9.1O	- 3.4n	- 6.On	- .46	ppb
Leaq	2O801	- 3.33	- 3.On	- 8.93	- 3.81	1.n9	ppb
LTDTum	601				1O1		%
MagoesTum	24O2	2688.41	2881.32	- - 99.O-	2n39.O9	11.9-	ppb
Maogaoese	99O2	1994.8-	13On.44	2O16.O1	136O.On	1- .- 4	ppb
Mdlybqeoum	n401	2.69	2.99	2.92	2.93	2.6-	ppb
Mdlybqeoum	n901	1.41	1.2-	1.- 4	1.- -	6.86	ppb
Mdlybqeoum	n601	1.4n	1.4O	1.4-	1.44	- .O9	ppb
Mdlybqeoum	n301	1.28	1.22	1.29	1.29	2.13	ppb
Mdlybqeoum	n801	1.- 1	1.2n	1.- O	1.- O	O.82	ppb
NedqymTum	19O01						Aps
NedqymTum	19O02						Aps
NTAkel	6O02	11.3O	12.8n	14.36	1- .12	11.38	ppb
Phdsphdrus	- 102	9- O.O3	6O6.4-	39O.31	62n.O3	13.81	ppb
PdDassTum	- nO2	4214.1n	46- - .36	9424.96	4393.9O	12.n2	ppb
RhdqTum	1O- 01				1O3		%
RhdqTum	1O- 02				n6		%
SAaoqTum	4901				1O3		%
SAaoqTum	49O2				8n		%
SeleoTum	8201	1.91	1.61	1.6-	1.98	4.14	ppb
SeleoTum	33O2	84.- -	88.3O	1O9.8-	n2.n9	12.2-	ppb
SeleoTum	38O2	1n.11	2O.96	24.99	21.41	1- .19	ppb
STTAdo	2801	1- 1.n1	126.3O	1- 6.69	1- 1.39	- .38	ppb
STver	1O301	O.19	O.16	O.19	O.16	9.14	ppb
STver	1On01	O.16	O.16	O.1n	O.13	11.46	ppb
SdqTum	2- 02	8- .OO	n4.21	1- 2.O6	1O- .On	24.n4	ppb
SDdoDTum	8601	49.89	44.O6	49.98	49.13	2.1-	ppb
SDdoDTum	8801	44.n2	4- .31	49.6-	44.39	2.13	ppb
Sulfur	- 401	022n2.O8	02941.13	02- n1.49	024O8.2-		ppb
&erbTum	19n01				11O		%
&erbTum	19n02				n3		%
&hallTum	2O- 01	O.2n	O.23	O.2n	O.28	- .- 8	ppb
&hallTum	2O901	O.23	O.2n	O.23	O.28	- .nn	ppb
&TD	11801	2.- 1	2.4-	2.98	2.44	9.96	ppb
&TaoTum	4301	282.3n	238.22	283.49	282.82	1.6-	ppb
UraoTum	2- 801	2.O3	2.16	2.12	2.12	2.1n	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0lr :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0lr :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
VaoaqTum	91O2	1n.nn	21.4-	29.12	22.18	11.n-	ppb
YDerbTum	13201						Aps
YDerbTum	13202						Aps
YDerbTum	13601						Aps
YDerbTum	13602						Aps
YDDTum	8n01				12-		%
YDDTum	8n02				111		%
ZTbA	6602	163.23	189.12	214.92	188.n3	12.6-	ppb
ZTAdoTum	nO01	O.86	O.88	O.n1	O.8n	2.68	ppb
ZTAdoTum	n101	O.n4	O.88	O.82	O.88	6.n4	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTop:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTI wb D8 :t&:9	y h SF2-	&8mTon:FwqTop:9	1
&wTr :i :Adb r : qdmqpr O:9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FU0

Nwpwb r Tr p	y wl l	v onCr D1	v onCr D2	v onCr D-	gM:v onqU	v onqCI &	RndT
8mb cncmb	2072	1S10aU46	1S245U21	1S1SaU5J	1S10aUa0	SU65	DDe
nTb on%	12171	SUJ5	SU61	SU6a	SU6-	0U02	DDe
pl r ncq	0J72	1JU0S	1JU5J	16U15	1JU5J	1UJ-	DDe
Bwpcmb	1- J71	202U06	206U0a	251Ua-	2aSU46	- UJ5	DDe
Bwpcmb	1- 071	20JU1S	205U42	25aUSJ	2a4U15	4U25	DDe
Br p%8cmb	571	2U40	2U4a	2U62	2UJ2	- U24	DDe
Bd b mTE	2S571				11S		G
Bd b mTE	2S572				1SJ		G
Bpob cnr	a171						qDl
v wOb cmb	1Sa71	2U02	1U54	2U6-	2U4-	10UJ0	DDe
v wOb cmb	1S671	1U-1	SU6a	7SUS0	SU64	1SaU-2	DDe
v wOb cmb	11171	1U2S	1U-0	1U2J	1U20	6U6S	DDe
v w8qcmb	4- 71	22- 0aU0a	22645Ua4	24124U26	2- SJSU56	4USa	DDe
v w8qcmb	4471	2- 4- 5UJ5	2- JJ2U16	24041U01	2- 511U1J	- US2	DDe
v wpeon	1271						qDl
v wpeon	1272						qDl
v E8pcnr	- J71						qDl
v E8pcnr	- J72						qDl
v Epob cmb	J272	14Ua1	14U6a	1JUS6	14UaJ	1U25	DDe
v oewBT	J572	1SU61	1SU-6	1SUJJ	1SUJ1	1U24	DDe
v oDDr p	6- 72	2aU0S	2aUJ1	2aUaS	2aU60	SUJ-	DDe
&%Dpol cmb	1J671						qDl
&%Dpol cmb	1J672						qDl
. pecmb	16471						qDl
. pecmb	16472						qDl
HwOo8ncmb	16S71						qDl
HwOo8ncmb	16S72						qDl
h o8b cmb	16J71				11-		G
h o8b cmb	16J72				1S4		G
tnOcmb	11J71				1Sa		G
tnOcmb	11J72				50		G
tpon	J472	20J46U10	20145U55	260- - UJ-	2014- U2-	1UJS	DDe
tpon	J672	26265U-J	20SJ1U15	26224U-1	26J14U5J	1U0J	DDe
tpon	J072	24aJ4U55	2J201U02	24515U2S	2JS1JU-S	SU5S	DDe
Kp%DTon	a- 71						qDl
Lr wO	2S671	5SU1S	52U4-	5- U52	52U1J	2US5	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTI wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O:9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FUD

NwpwbrTrp	ywll	vonCrD1	vonCrD2	vonCrD-	gMUvonqU	vonqCI &	RndT
LrwO	2S071	a6U45	a0Ua4	51U25	aaUJ4	2U05	DDe
LrwO	2Sa71	a5U11	a5UJ0	52U01	5SU40	2U10	DDe
LdEomb	671				1SS		G
ywMhrlomb	2472	6J16U16	64J-U02	640SU44	64aSU11	SUJS	DDe
ywnMwnrlr	JJ72	JJ4U1J	J61U6S	JJ2U1a	JJJU5a	SUa5	DDe
yo8%eOrnmb	5471	21U06	22UJ4	2-U0S	22U60	4U25	DDe
yo8%eOrnmb	5J71	1UJJ	1UJ5	1U40	1U4S	4UJ2	DDe
yo8%eOrnmb	5671	-UJ4	-UJ4	-U65	-UJ-	4U5-	DDe
yo8%eOrnmb	5071	1UJ4	1U21	1UJS	1UJJ	1SU6a	DDe
yo8%eOrnmb	5a71	1U24	1U26	1U4-	1UJ1	aUS2	DDe
uroO%bomb	1JS71						qDl
uroO%bomb	1JS72						qDl
ucqkr8	6S72	21U12	2SU4J	21U1J	2SU51	1U51	DDe
NEolDEopml	-172	246aU5S	2462U24	2-25U02	242SU25	-U24	DDe
NoTwlomb	-572	J-S2USO	J-21U6a	J424U6-	J-45U46	1U2-	DDe
CEoOomb	1S-71				1S6		G
CEoOomb	1S-72				1S2		G
lqwnOomb	4J71				1S6		G
lqwnOomb	4J72				5J		G
lr8nomb	a271	1US1	SUa5	1UJ1	1U14	25US1	DDe
lr8nomb	0072	4SUa5	4-U1S	-6US1	4SUSS	5USO	DDe
lr8nomb	0a72	11U6J	1SUJS	5US6	1SUJ4	12UJ0	DDe
lo8qon	2a71	2SJU5S	2SaUJ0	22-U1-	212U40	4UJa	DDe
lo8grp	1S071	SUJJ	SUJS	SUJ-	SUJ2	4Ua4	DDe
lo8grp	1S571	SU4a	SU62	SUJ4	SUJJ	12U0a	DDe
loOomb	2-72	146U22	146USJ	146USS	146US5	SUSa	DDe
lTponTomb	a671	1S-USO	1S6UJ4	11-U1-	1S0UJa	4U0J	DDe
lTponTomb	aa71	1S5U5-	11SUJ4	115U05	11-U42	4Ua0	DDe
lm8mp	-471	71-a4U41	7125-U6S	7J11U45	71S6-U10		DDe
Arpeomb	1J571				111		G
Arpeomb	1J572				1S-		G
AEw8omb	2S-71	SU2S	SU2S	SU22	SU21	6USS2	DDe
AEw8omb	2SJ71	SU22	SU2S	SU22	SU21	6U2-	DDe
Aon	11a71	4UJ-	-U16	-UJ1	-U60	16U4-	DDe
AcTwnomb	4071	1J0USS	1J0U22	164U11	1J5U44	2UJ4	DDe
Rpwnomb	2-a71	2U66	2U64	2U05	2U0S	-USS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTl wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O.9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FU0

NwpwbrTrp	y wl l	v onCr D1	v onCr D2	v onCr D-	gMU:v onqU	v onqCl &	RndT
VwnwOcmb	J172	- 5U44	- 5U46	4SU46	- 5U05	1U40	DDe
YTTr pecmb	10271						qDl
YTTr pecmb	10272						qDl
YTTr pecmb	10671						qDl
YTTr pecmb	10672						qDl
YTTpcmb	a571				11-		G
YTTpcmb	a572				1S6		G
Zcnq	6672	021Ua5	0- SU14	0- 1U2-	020U0J	SU0S	DDe
Zcpqonmb	5S71	11UJ6	12USS	12Ua1	12U12	JU24	DDe
Zcpqonmb	5171	11Ua5	11U50	12U05	12U22	4U1S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CRe5&psml Re9D 9J9	3Bp 7	t AR&N59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129I0J1 J-4	t s&sUAR9Nsme9J	S 7CCB. FO

3srsmea&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRumA5Aum	20:2	SF06	1F S	2F2S	1F62	46F81	l l b
c5&Amn5h	121:1	SF51	SF51	SF51	SF51	70F74	l l b
crwe5Aq	0-:2	SF57	:SF51	SF5S	SF51	7-SF87	l l b
BsrAum	17-:1	SF51	SF58	SF50	SF5-	06F17	l l b
BsrAum	170:1	SF56	SF51	SF56	SF54	02F 0	l l b
BerhFAum	:1	SF5S	SF51	SF51	SF51	42F 0	l l b
BAumu&%	2S :1				1S		E
BAumu&%	2S :2				-		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	:SF14	:SF1S	:SF52	:SF5		l l b
CsOmAum	1S6:1	:4F64	:6F08	: F56	:6F87		l l b
CsOmAum	111:1	:SF57	:SF50	:SF1S	:SF50		l l b
CsRqAum	47:1	:SF06	7F22	11F1	4F-	177F0-	l l b
CsRqAum	44:1	:1F 1	2F6S	F68	7F46	168F S	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%RrA5e	7-:1						ql w
C%RrA5e	7-:2						ql w
C%nmAum	-2:2	SF5-	SF20	SF1S	SF14	86F6-	l l b
CnbsR&	- :2	SF51	SF5S	SF5S	SF5S	60SF S	l l b
CnI I er	67:2	SF1-	SF74	SF10	SF22	40F62	l l b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S		E
HnRmAum	16-:2				4		E
D5OAum	11-:1				1S		E
D5OAum	11-:2				8		E
Dn5	-4:2	1F2-	2F1-	7F40	2F2	48F00	l l b
Dn5	-6:2	SF46	1F02	4F22	2F17	8 F0	l l b
Dn5	-0:2	:1F77	2F 8	0F7S	2F 8	144F67	l l b
KrhI &n5	87:1						ql w
LesO	2S6:1	SF52	SF51	SF54	SF52	07F87	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S2	SF5S0	SF5S-	SF5S4	-4F18	I I b
LesO	2S8:1	SF5S4	SF5S7	SF5S7	SF5S7	7F8S	I I b
LA&%Aum	6:1						E
y sM5ewAum	24:2	SF6	SF-8	1F88	1F5S-	68F7	I I b
y s5Ms5ewe	- - :2	SF5S6	SF14	SF18	SF17	4 F77	I I b
y nPbOe5um	4:1	SF5SS	SF5S1	SF5S-	SF5S2	14SF5S8	I I b
y nPbOe5um	- :1	SF5SS	SF5SS	SF5S7	SF5S1	127F5S8	I I b
y nPbOe5um	6:1	SF5S2	SF5SS	SF5S7	SF5S2	0 F-6	I I b
y nPbOe5um	0:1	SF5S7	SF5S1	SF5S2	SF5S2	-0F-7	I I b
y nPbOe5um	8:1	SF5S1	SF5SS	SF5S1	SF5SS	- F-6	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	:SF5S2	SF5SS	SF5S6	SF5S1	2-4F1S	I I b
3%nwl %nruw	71:2	:0SF-7	:-SF06	:4 F81	:-0F5S7		I I b
3n&swwAum	7 :2	:11F22	28F07	:8F08	2F 1	06 F72	I I b
v %nOAum	1S7:1				1S0		E
v %nOAum	1S7:2				7		E
pqs5OAum	4- :1				1S-		E
pqs5OAum	4- :2				8-		E
pe&e5Aum	82:1	:SF71	:SF28	:SF-8	:SF7		I I b
pe&e5Aum	00:2	:SF78	:SF78	SF0	SF5S1	64 2F46	I I b
pe&e5Aum	08:2	:SF41	SF78	SF12	SF5S7	1461F6-	I I b
pAqn5	28:1	:SF7S	:SF20	:SF24	:SF20		I I b
pAger	1S0:1	SF5S2	SF5S2	SF5S1	SF5S2	48F8S	I I b
pAger	1S :1	SF5S1	SF5S1	SF5S1	SF5S1	14F5S4	I I b
pnOAum	27:2	:14F-8	10F-1	:14F6-	:7F S		I I b
p&n5&Aum	86:1	:SF5S4	SF5S7	SF17	SF5S4	21 F84	I I b
p&n5&Aum	88:1	SF5S2	SF5S2	SF5S-	SF5S7	02F	I I b
pu&ur	74:1	:2 61F60	:2678F1-	:2448F5S7	:2682F62		I I b
i erbAum	1- :1				1S8		E
i erbAum	1- :2				2		E
i %sPAum	2S7:1	SF5S4	SF5S2	SF5S-	SF5S4	78F12	I I b
i %sPAum	2S-:1	SF5S2	SF5S7	SF5S7	SF5S7	14F2S	I I b
i A5	118:1	:SF5S7	SF5SS	SF5SS	:SF5S1		I I b
i A&5Aum	40:1	SF5SS	SF5S1	:SF5S	:SF5S2		I I b
Rrs5Aum	278:1	SF5SS	SF5SS	SF5SS	SF5SS	2 1F64	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129l0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	- 1:2	:SF5S2	SF5S1	SF5S2	SF5S1	266F20	l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S6		E
Y&&Aum	8 :2				8		E
ZA5q	66:2	SF5	SF17	SF20	SF16	- F4S	l l b
ZAqn5Aum	S:1	SF5S1	SF5S	SF5S	SF5S	160F2	l l b
ZAqn5Aum	1:1	:SF5S1	:SF5S2	SF5S1	SF5S		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J10a22a-	t w&WUA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c 8mb A5Amb	2092	77F6-	72FNS	7NF0N	7-FSN	F22	l l e
c 5&b n5h	12191	7F4S	2F 7	7F10	7F10	0F71	l l e
cpl r 5Aq	0-92	1F07	1F0N	1FN2	1F0N	2F64	l l e
BwpAmb	17-91	10F4S	1-F40	16F-N	16F4N	-FNN	l l e
BwpAmb	17091	10F14	1-F42	1-FN2	16F17	-F-N	l l e
Br ph8Amb	91	1F0-	1F64	1F-4	1F64	6F47	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S4		E
Bpmb A5r	N191						qll
CwOb Amb	1SN91	1F40	1F7	1FN1	1F-6	14F4	l l e
CwOb Amb	1S691	97FS-	94FS6	97F76	97F4		l l e
CwOb Amb	11191	1FN	1F6S	1F6S	1F0S	F6-	l l e
Cw8pAmb	4791	N11F0	04NF-N	0SNFS6	0-6F20	6F 1	l l e
Cw8pAmb	4491	N7SF77	077F04	02SF6N	061F-N	0FN6	l l e
Cwpen5	1291						qll
Cwpen5	1292						qll
C%8np5r	7-91						qll
C%8np5r	7-92						qll
C%pmb Amb	-292	7F72	7F7N	7F2N	7F77	1F-	l l e
Cnew8&	- 92	1F04	1F02	1F00	1F04	1F7	l l e
CnI l r p	6792	7F64	7F66	7F0S	7F60	SFN7	l l e
t hl l pnl Amb	1-691						qll
t hl l pnl Amb	1-692						qll
. peAmb	16491						qll
. peAmb	16492						qll
GwOn8A5Amb	16S91						qll
GwOn8A5Amb	16S92						qll
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S7		E
D5OAmb	11-91				1S1		E
D5OAmb	11-92				N		E
Dpn5	-492	776F-	7-4F66	740FNS	746F74	2F64	l l e
Dpn5	-692	741F60	746F1S	74 F27	74-F60	1F1S	l l e
Dpn5	-092	74-F61	77NF1S	74-F-N	747F1S	1F26	l l e
Kphl 8a5	N791						qll
LrwO	2S691	1F04	1F-4	1F44	1F-N	F-7	l l e

Reviewed By:Bin
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LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ A8 r Jc qdmAr QJa	2S279S0912J10a22a-	t w&wUA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-7	1F-1	1F-0	4F N	l l e
Lr wO	2SN91	1F6N	1F-7	1F4	1F-0	6F40	l l e
LA%Amb	691				4		E
y wW5r l Amb	2492	N6NF42	N61F0S	N00FS	N6 FS0	SFN	l l e
y w5Mw5r l r	- - 92	1FN6	1F0S	1F S	1FN2	- F60	l l e
y n8neOr 5mb	491	F6-	NF 6	NF16	NF 7	NF7-	l l e
y n8neOr 5mb	- 91	NFS1	0F-0	6F 4	0F-S	0F10	l l e
y n8neOr 5mb	691	NF7	0F40	0F-6	0FN1	6F4	l l e
y n8neOr 5mb	091	NF61	0F64	0F62	0F 6	0FSN	l l e
y n8neOr 5mb	N91	NF1S	0F66	0FS1	0F-	0F24	l l e
u r nOhb Amb	1- S91						ql l
u r nOhb Amb	1- S92						ql l
u Aqkr 8	6S92	1F66	1F0	1FN6	1F00	- F06	l l e
3 %nl l %npm	7192	966F42	94 F- -	904F71	967F47		l l e
3 n&wl Amb	7 92	0NSF6S	0 4F12	N2SF67	0 NF4-	2F- -	l l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S7		E
: qw5OAmb	4- 91				N		E
: qw5OAmb	4- 92				4		E
: r 8 5Amb	N291	F-2	FSN	0F00	NF0	1SF70	l l e
: r 8 5Amb	0092	NF 7	6F4N	1SF 4	NF0N	2- F41	l l e
: r 8 5Amb	0N92	0F01	FS2	- F2N	0F74	2- F S	l l e
: A8qn5	2N91	1F7-	SFN7	SF0-	SF N	77F20	l l e
: A8gr p	1S091	1F02	1F-	1F60	1F66	4FS7	l l e
: A8gr p	1S 91	1F04	1F-4	1F62	1F64	6F22	l l e
: nOAmb	2792	N2- FN6	N1NF76	N70F14	N20F12	1F14	l l e
: 8pn5 8Amb	N691	1F02	1F62	1F6	1F60	7FS-	l l e
: 8pn5 8Amb	NN91	1F04	1F60	1F-7	1F6-	6F61	l l e
: m8mp	7491	9126SF42	92120F2	92774F6S	91 S0F44		l l e
i r peAmb	1- 91				1S7		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F6	1F-1	1F-6	1F-	- FN	l l e
i %w8Amb	2S- 91	1F6-	1F4N	1F4N	1F-4	6F77	l l e
i A5	11N91	SFS	SFSS	9SFS7	SFS2	740F1	l l e
i A&w5Amb	4091	NF 2	0F67	0F-S	NFS2	F0N	l l e
Rpw5Amb	27N91	1F-N	1F46	1F42	1F4N	- F4N	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J10a22a-	t w&WJA8 Ju wb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF6S	NF-4	NFN7	NF66	1F00	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91						E
Y8&pAmb	N 92				N		E
ZA5q	6692	NF61	NFN1	NF06	NF02	1F1N	l l e
ZAqn5Amb	S91	1F64	1F4N	1F-6	1F-6	-FS0	l l e
ZAqn5Amb	191	1F60	1F-	1F-S	1F-0	-F6S	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fldl

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
AlNu ioiNu	20 2	215n6U6-	2S542U-1	21- n7U7n	2110nU27	2U65	ppm
Aotiu Oo%	121 1	SU7-	SU01	SU60	SU04	11U51	ppm
Aesboic	05 2	10U51	10U50	17U-5	10U71	2U61	ppm
BaeiNu	1- 5 1	- 4nUS1	- 2SUn5	- S7U10	- 26US4	6U41	ppm
BaeiNu	1- 0 1	- 5- U-4	- 2SU02	- 11US4	- 27U-0	6U05	ppm
Bbe%liNu	n 1	2US6	1Un0	1U74	1Un6	5U6S	ppm
Bisu NtE	2Sn 1				1S-		G
Bisu NtE	2Sn 2				1S0		G
BeOu iob	71 1						cps
v adu iNu	1S7 1	1U2S	1U17	1U14	1U10	2U72	ppm
v adu iNu	1S6 1	SU14	- U22	- U24	2U2S		ppm
v adu iNu	111 1	1U-1	1US5	1USS	1U12	15U17	ppm
v alciNu	4- 1	- 2612U50	2n- 07USS	277- - US-	- S204U54	6U05	ppm
v alciNu	44 1	- - 66nU45	2nn57U-1	2n1n0U10	- Sn41U65	0U0-	ppm
v aemOo	12 1						cps
v aemOo	12 2						cps
v ElOeiob	- 5 1						cps
v ElOeiob	- 5 2						cps
v EeOu iNu	52 2	26U77	26US5	26U57	26U5S	1U5n	ppm
v Omalt	5n 2	15U1S	14U64	15U06	15U10	- U02	ppm
v Oppbe	6- 2	- nU55	- 7US2	4SUn5	- nU51	- U0S	ppm
D%speOsiNu	156 1						cps
D%speOsiNu	156 2						cps
. emiNu	164 1						cps
. emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
h Olu iNu	165 1				1S5		G
h Olu iNu	165 2				1S5		G
IodiNu	115 1				1S-		G
IodiNu	115 2				1SS		G
IeOo	54 2	46- 71U-7	4515nU6n	40S00US2	462S6US-	2U1S	ppm
IeOo	56 2	45502U25	440S6U2n	46055U42	45600Unn	2U25	ppm
IeOo	50 2	46650U56	444S0Un6	406n0U16	46254U2-	- U6-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	6- U6-	50U1-	5- U00	57U17	7U61	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fud

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
Lbad	2S0 1	6SU4-	54U46	52U1n	55U6n	0U64	ppm
Lbad	2S7 1	61U57	55U7S	5- U14	56U74	0U5n	ppm
LitEiNu	6 1				nn		G
y aMobsiNu	24 2	1- S- 4U05	12222U-n	12n64U25	1204SU46	- U5-	ppm
y aoMaobsb	55 2	n1nUhn	nS4U64	n40U27	n2- Uh0	2U-4	ppm
y Ol%mdboNu	n4 1	7US1	0U1S	0U-S	0U40	6U44	ppm
y Ol%mdboNu	n5 1	2U21	2U11	2USS4	2U12	- Uh1	ppm
y Ol%mdboNu	n6 1	2U71	2U44	2U61	2U62	0U10	ppm
y Ol%mdboNu	n0 1	2U1S	1Uhn	2U14	2USS0	- U67	ppm
y Ol%mdboNu	n7 1	2U-0	1U7n	1Uh5	2USS0	12U04	ppm
8 bOd%u iNu	15S 1						cps
8 bOd%u iNu	15S 2						cps
8 ickbl	6S 2	- nUS1	- 7U44	4SUhS	- nU45	- U20	ppm
PEOspEOeNs	- 1 2	1n16U47	1015U62	1752U1S	1727USS0	5U61	ppm
POtassiNu	- n 2	6- 06U67	6122USS0	6467USS4	6- 22U26	2U74	ppm
CEOdiNu	1S- 1				1S1		G
CEOdiNu	1S- 2				1S4		G
r caodiNu	45 1				1S1		G
r caodiNu	45 2				n7		G
r blboiNu	72 1	1Uh6	2U21	1Uh4	2USS4	0U-0	ppm
r blboiNu	00 2	- 7US1	47USS7	45U1-	4- U04	11U74	ppm
r blboiNu	07 2	7U04	7U60	1SU70	nU4-	1- U2n	ppm
r ilicOo	27 1	2S- U44	17- U-n	171Uhn	17nU61	6U-	ppm
r ilgbe	1S0 1	SU-6	SU-1	SU27	SU-2	12U05	ppm
r ilgbe	1Sn 1	SU-0	SU-1	SU27	SU-2	14U60	ppm
r OdiNu	2- 2	161U17	147U-n	156U12	155U2-	4U15	ppm
r teOotiNu	76 1	1- 2U16	117U6-	115U-S	122USS-	0U-2	ppm
r teOotiNu	77 1	1- 4U14	124U70	117U-n	125U7S	6U2n	ppm
r NfNe	- 4 1	2U77	1S6- U75	1152U47	0- nU04		ppm
TbemiNu	15n 1				1S5		G
TbemiNu	15n 2				1S5		G
TEalliNu	2S- 1	SU6S	SU56	SU4n	SU55	1SU4-	ppm
TEalliNu	2S5 1	SU57	SU5-	SU5S	SU54	0U05	ppm
Tio	117 1	1Uh4	1U65	1U65	1U04	nU50	ppm
TitaoiNu	40 1	1- 0U7n	122U56	12SU5n	120USS1	0U45	ppm
ReaoiNu	2- 7 1	2U54	2U-	2U24	2U-0	6U46	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fldl

Paeau btbe	y ass	v CoCbp1	v CoCbp2	v CoCbp-	AgMJv CocU	v CocCr D	Roits
VaoadiNu	51 2	60U65	65U-	60U07	66Ul2	2U56	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				1S0		G
YtteiNu	7n 2				11-		G
Zioc	66 2	250U44	247U6-	262U5S	256U1n	2U04	ppm
ZiecCoiNu	nS 1	- U64	- U12	- US7	- U27	nU45	ppm
ZiecCoiNu	n1 1	- U-0	- U17	- US6	- U2S	4U70	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAm	20 2	2S4- 0U57	22524U60	21466U6J	216S5U00	JU07	l l b
cn&mon%	121 1	SU64	SU01	SU6S	SU6J	7U7J	l l b
crwenAq	0J 2	10U-6	2SU-1	17U47	17U02	0U5J	l l b
BsrAm	1- J 1	- SJU52	- 15U5J	- S7U40	- 11U4J	2U4S	l l b
BsrAm	1- 0 1	- S5U51	- 2JU22	- SJU4-	- 1- UJ2	- U1	l l b
Ber%RAm	5 1	1U74	1U72	1U71	1U72	SU54	l l b
BAmu&E	2S5 1				1S0		G
BAmu&E	2S5 2				1SJ		G
BromAe	71 1						ql w
v sOmAm	1S7 1	SU57	1U-1	1U2J	1U17	1JU12	l l b
v sOmAm	1S6 1	2U75	SU25	4UJ5	2U4S		l l b
v sOmAm	111 1	1US-	1US7	1US-	1USJ	2U07	l l b
v sRqAm	4- 1	27140U27	25677U76	26547U26	27261U40	4U76	l l b
v sRqAm	44 1	254JSU-7	- S02SU0-	27J- SUSS	25J60US4	- U02	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	- J 1						ql w
v ERrAe	- J 2						ql w
v EromAm	J2 2	2JU-5	27U77	20U60	20U-1	6U45	l l b
v obsR&	J5 2	14U71	16UJS	1JU6-	1JU6J	JU-5	l l b
v ol l er	6- 2	- 7U44	42UJ0	41USS0	4SU65	JU1J	l l b
t %w l rowAm	1J6 1						ql w
t %w l rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
h oRmAm	16J 1				1S5		G
h oRmAm	16J 2				1SJ		G
DnOAm	11J 1				1S7		G
DnOAm	11J 2				55		G
Don	J4 2	4J042U45	JS11SU46	47- 51U25	47S71U41	4UJ7	l l b
Don	J6 2	4- 50JU61	45J52U1J	46616U-6	46027USS4	6US1	l l b
Don	J0 2	4450- USS	457- - U60	4025JU1-	40- 60U20	JU1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J6U7-	J6U1J	JJU--	J6U11	1U-4	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	J-U65	J2U77	J1U51	J2U72	1U65	l l b
LesO	2S7 1	J4U56	J4U55	J-UJ2	J4U45	1UJJ	l l b
LA&EAum	6 1				1S2		G
y sMnewAum	24 2	12S0-U5S	1-2-JU21	12652UJ2	12660U14	4UJ5	l l b
y snMsnewe	JJ 2	775U7S	1SS5U21	546U01	547UJ7	6UJS	l l b
y oP%bOenum	54 1	0U14	0US0	6U5-	0USJ	1U47	l l b
y oP%bOenum	5J 1	1U76	1U77	1U50	1U5S	-US7	l l b
y oP%bOenum	56 1	2U42	2U47	2UJ5	2UJS	-UJ-	l l b
y oP%bOenum	50 1	2US-	1U5-	1U07	1U51	6UJ1	l l b
y oP%bOenum	57 1	1U5S	2USJ	1U5-	1U56	4US4	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	-7U6-	4-U10	41UJ-	41U11	JUJ5	l l b
8EowI Eoruw	-1 2	1661U5J	17S4U76	17-5U5-	1067U51	JUJ-	l l b
8o&swwAum	-5 2	J50JUJ2	60SJU05	6467U2S	6-7-U1S	JU74	l l b
CEoOAum	1S- 1				1S4		G
CEoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				50		G
pe&enAum	72 1	1UJ-	2U02	1UJ0	1U70	-5UJS	l l b
pe&enAum	00 2	-1U02	47US6	42U64	4SU71	2SUJ5	l l b
pe&enAum	07 2	0UJ4	5UJ5	7U64	7UJ2	1SU75	l l b
pAqon	27 1	171U7S	151U5-	101U4S	171U01	JU6J	l l b
pAger	1S0 1	SUJ2	SUJ-	SU20	SUJ1	5UJ4	l l b
pAger	1S5 1	SUJ2	SUJ-	SUJS	SUJ1	4U67	l l b
poOAum	2- 2	140U5S	165U42	1J0US6	1J7U1-	6U7-	l l b
p&ona&um	76 1	114UJ2	11JUS7	112UJJ	114USJ	1U10	l l b
p&ona&um	77 1	12SU40	12-U1S	110U5S	12SU45	2U16	l l b
pulPur	-4 1	12S6U40	7SJU67	16-1U04	1214U6-		l l b
i erbAum	1J5 1				1S5		G
i erbAum	1J5 2				1SJ		G
i EsPAum	2S- 1	SUJ6	SUJ2	SUJS	SUJ-	6U11	l l b
i EsPAum	2SJ 1	SUJ-	SUJ1	SUJ-	SUJ2	2U71	l l b
i An	117 1	1UJ7	1U6J	1U66	1U6-	2U7J	l l b
i A&snAum	40 1	117U22	124U45	11-U76	117U76	4UJS	l l b
RrsnAum	2-7 1	2UJ-	2UJ7	2UJS	2UJ4	1U06	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	J1 2	64U72	01U51	67UJ0	67U4-	JU15	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				11-		G
Y&&Aum	75 2				1S5		G
ZAnq	66 2	2JSUJS	207US2	26JUJ-	264U67	JU21	l l b
ZAqonAum	5S 1	- US7	- U11	- USS	- US6	1U5J	l l b
ZAqonAum	51 1	- US2	- USJ	- USS	- US2	SU0S	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Rent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
ARminium	23X2	R6 U4	- 616U1R	422RU33	46O- U33	26U43	ppb
Antimony	121X1	OU13	OU1	OU1	OU1	3U16	ppb
Arwenic	3 X2	U24	- U21	4UO3	4U10	24U0	ppb
Bsrium	1- X1	RU4O	6OU06	6 U2R	61U0	4UR6	ppb
Bsrium	1- 3X1	RU20	6 UOO	64U2	62UR6	UOO	ppb
BeryRium	RX1	OU	OU3	OU4O	OU3	3U24	ppb
Biwmuth	2ORX1				1OR		%
Biwmuth	2ORX2				1O-		%
Bromine	01X1						cpw
v sdmium	1O0X1	OUOO	OU46	OUOR	OU21	1OOUR2	ppb
v sdmium	1O6X1	X4U -	X2U30	X4U21	X UO4		ppb
v sdmium	111X1	OU10	OU1	OU13	OU13	3U6	ppb
v sRium	4- X1	226UO3	342U44	33 U6R	01U63	U 1	ppb
v sRium	44X1	0- U4-	R62U22	6124U12	00RUR2	4U31	ppb
v srbon	12X1						cpw
v srbon	12X2						cpw
v hRorine	- X1						cpw
v hRorine	- X2						cpw
v hromium	2X2	3U4	4U1	U 1	U32	26U3O	ppb
v obsRR	RX2	4UO	2U6O	- U13	- U6	2 U3-	ppb
v opper	6- X2	11U 1	6URO	0U2-	0UO0	26U33	ppb
Dywprowium	1 6X1						cpw
Dywprowium	1 6X2						cpw
Frbium	164X1						cpw
Frbium	164X2						cpw
GsdoRnium	16OX1						cpw
GsdoRnium	16OX2						cpw
9 oRnium	16 X1				1OR		%
9 oRnium	16 X2				1O2		%
Indium	11 X1				1O		%
Indium	11 X2				R0		%
Iron	4X2	12264UO1	3- 22U01	03- 2U02	R4- RU00	26URR6	ppb
Iron	6X2	12064U14	3001UO	R166U1O	RR3OU 1	2 UR	ppb
Iron	3X2	12OO6U	32R- UR2	0611UR0	R- O4UOR	26U1-	ppb
Krypton	0- X1						cpw
Lesd	2O6X1	1OUO3	1OU02	1OUR6	1OU62	4U43	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpPe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Pent:SsmpPe:ID:J	H9 O. 60L	DiPtion:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iPe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Lesd	2O3X1	RU3-	1OU2	1OU2R	1OU10	- URO	ppb
Lesd	2O0X1	RURO	1OU63	1OU32	1OU4	4UO	ppb
Lithium	6X1				RR		%
HsMhewium	24X2	- - 3- U23	2O1RU4-	242RU30	26O3UO	26U62	ppb
HsnMsnewe	X2	26OU 1	16OU4R	1R1U02	2O4U23	2 UO	ppb
HoPybdenum	R4X1	1U2	1U 2	1U43	1U41	1OU2R	ppb
HoPybdenum	R X1	OUJ O	OU4O	OUJ0	OUJ6	14U01	ppb
HoPybdenum	R6X1	OU4R	OU43	OU 4	OU O	3U31	ppb
HoPybdenum	R3X1	OU4O	OUJ4	OU 2	OU42	21U01	ppb
HoPybdenum	R0X1	OUJ3	OU4-	OU42	OU41	0U2O	ppb
Neodymium	1 OX1						cpw
Neodymium	1 OX2						cpw
NickeP	6OX2	11U3-	3U02	0U46	RU03	26U6O	ppb
8howphoruw	- 1X2	1 U3	214U -	- 20UJ6	- 2U00	4- U1O	ppb
8otswwium	- RX2	1012U4	1O10UJ0	126 U23	1- 6 UJ3	2RU36	ppb
Ehodium	1O- X1				1O6		%
Ehodium	1O- X2				1O1		%
Scsndium	4 X1				1O6		%
Scsndium	4 X2				R-		%
SePenium	02X1	OU0R	OU24	XOU0	OU0R	1 2U30	ppb
SePenium	33X2	0U36	0U66	3U 0	0UJ4	3U0	ppb
SePenium	30X2	- U04	1U 1	2U13	2U 1	43U04	ppb
SiPcon	20X1	- 2URO	- 6U03	- 6U66	- U2-	U64	ppb
SiPger	1O3X1	OU06	OU0	OU0	OU06	0U43	ppb
SiPger	1ORX1	OU03	OU00	OU00	OU00	0U31	ppb
Sodium	2- X2	2U01	X U33	1 U23	2OU33	142U0R	ppb
Strontium	06X1	21U01	2- U03	24U11	2- U26	U4-	ppb
Strontium	00X1	21URO	2- U32	24U33	2- U4R	URR	ppb
SuPur	- 4X1	X246OU0	X1R13UJ O	X1ROR U0-	X2OR U46		ppb
Terbium	1 RX1				1O0		%
Terbium	1 RX2				1O-		%
ThsPrum	2O- X1	OU12	OU12	OU12	OU12	1UJ0	ppb
ThsPrum	2O X1	OU0R	OU1O	OU11	OU1O	RU6	ppb
Tin	110X1	OU26	OU20	OU2O	OU2	10U10	ppb
Titsnium	43X1	22U26	2- U21	24U12	2- U2O	4U0O	ppb
Crsnium	2- 0X1	OU42	OU46	OU46	OU4	U06	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Rent:SsmpRe:ID:J	H 9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Vsnsdium	1X2	10U32	11U3	1- U6R	14U66	2 UD	ppb
Ytterbium	132X1						cpw
Ytterbium	132X2						cpw
Ytterbium	136X1						cpw
Ytterbium	136X2						cpw
Yttrium	0RX1				1O3		%
Yttrium	0RX2				RR		%
Zinc	66X2	34U64	44U3	1U10	6U06	23U63	ppb
Zirconium	ROX1	OU 0	OU6-	OU63	OU6-	3U06	ppb
Zirconium	R1X1	OU R	OU61	OU61	OU61	1U03	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
cRmAAm	20 2	2- S- 0U46	2- 11SU15	2- - J1U4J	2- 166U0	SU01	l l b
cn&mon%	121 1	17U4J	17U62	17U2S	17U42	1U14	l l b
crwenAq	0J 2	2JUJ-	2JU42	2JU6-	2JUJ-	SU42	l l b
BsrAm	1- J 1	016US6	0S5U6	010UJ1	014U1	SU61	l l b
BsrAm	1- 0 1	001U72	060U40	065U75	065U0-	SU27	l l b
Ber%RAm	5 1	12UJ6	12US5	11U70	12U10	2U75	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1SJ		G
BromAe	71 1						ql w
v sOmAm	1S7 1	5U21	5U2S	5U67	5U0	2U52	l l b
v sOmAm	1S6 1	7UJ4	7U7	0U42	7U11	0U44	l l b
v sOmAm	111 1	11US4	1SU02	11U42	11US6	- U17	l l b
v sRqAm	4- 1	27774U72	2752- U74	27727UJ7	27705US7	SU10	l l b
v sRqAm	44 1	250J6U4	2576- U47	25J4JU14	25021U66	SUJ4	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	- J 1						ql w
v ERrAe	- J 2						ql w
v EromAm	J2 2	01U4-	65U5	01U05	0SU70	1U7-	l l b
v obsR&	J5 2	122U4-	122U64	12- UJ-	122U70	SU47	l l b
v ol l er	6- 2	5- U56	54U0	5JU2S	54UJ1	SU60	l l b
t %wl rowAm	1J6 1						ql w
t %wl rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
hoRmAm	16J 1				1S7		G
hoRmAm	16J 2				1S6		G
DrOAm	11J 1				1SJ		G
DrOAm	11J 2				55		G
Don	J4 2	4722- U77	40J24U54	4052- UJ4	4075SU05	SU0-	l l b
Don	J6 2	40J- 6U0-	401- JU6	47S70U40	40J76UJ2	1USS	l l b
Don	J0 2	47727U2-	47S61U6J	45S0SUS2	476J- US	1US7	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J0U65	J7U61	J7U60	J7U2	SU54	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	JJU0S	JJU45	J6U10	JJU05	SU6-	l l b
LesO	2S7 1	J0U54	J0U45	J0U66	J0U65	SU4S	l l b
LA&EAum	6 1				55		G
y sMnewAum	24 2	1270SU51	120J7U05	12540UJ0	127J5US-	SU04	l l b
y snMsnewe	JJ 2	1SJ0US0	1S45U45	1S01UJJ	1SJ5UJ0	1US6	l l b
y oP%bOenum	54 1	0U26	0US7	0U45	0U27	2U77	l l b
y oP%bOenum	5J 1	1U51	1U04	1U7-	1U7-	4U60	l l b
y oP%bOenum	56 1	2U46	2UJ6	2U6J	2UJJ	-U02	l l b
y oP%bOenum	50 1	2US4	1U70	1U57	1U56	4U62	l l b
y oP%bOenum	57 1	2US0	1U77	2USS	1U57	4U77	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1J7U76	1J4UJ4	1J7U46	1J0U22	1UJ5	l l b
8EowI Eoruw	- 1 2	1671U0-	175SUJS	17SSU42	105SU72	JU74	l l b
8o&swwAum	- 5 2	661SU47	6452U0-	67S2U10	66- JU12	2UJJ	l l b
CEoOAum	1S- 1				1S-		G
CEoOAum	1S- 2				1SJ		G
pqsnOAum	4J 1				1SJ		G
pqsnOAum	4J 2				57		G
pe&enAum	72 1	21U4-	15UJJ	21U41	2SU7S	JU17	l l b
pe&enAum	00 2	6SU61	6- U77	J7U55	61U16	4US7	l l b
pe&enAum	07 2	24U01	24U07	27U66	26USJ	7U0S	l l b
pAqon	27 1	174UJ4	171U12	17JU24	17- U6-	1U2S	l l b
pAger	1S0 1	7U6S	7UJ5	7UJ-	7U44	1U66	l l b
pAger	1S5 1	7U6S	7UJJ	7UJ6	7UJ1	1UJS	l l b
poOAum	2- 2	22- UJ-	227U05	2- 2UJ7	227U2-	1U5J	l l b
p&on&Aum	76 1	12SU17	116UJJ	11JU6J	110U46	2US4	l l b
p&on&Aum	77 1	126U25	12- UJ1	12JU05	12JU1-	1U20	l l b
pulPur	- 4 1	0SSU70	065UJS	656US6	022US7		l l b
i erbAum	1J5 1				1S7		G
i erbAum	1J5 2				1S4		G
i EsPAum	2S- 1	7U5-	5US4	5U1-	5US-	1US7	l l b
i EsPAum	2SJ 1	5US1	5USJ	5US5	5USJ	SU44	l l b
i An	117 1	2U40	2U4J	2U46	2U46	SUJ-	l l b
i A&snAum	40 1	111U15	1SJU54	1S4U42	1S0U17	-UJ1	l l b
RrsnAum	2- 7 1	2UJ1	2U24	2U25	2U27	1U65	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ane:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJ:v onqU	v onqCpt	Rn&w
VsnsOAum	J1 2	105US0	10JUJJ	107U7-	100U72	1U11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	- 74U57	- 52U55	4S2USS	- 5- U2	2U10	l l b
ZAqonAum	5S 1	- U27	- U12	- U16	- U17	2U0J	l l b
ZAqonAum	51 1	- U1S	- U27	- U17	- U15	2U52	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&n&psml Re9D 9J9	y h SF: 0	t Ra&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J. S	t s&sFAe9Nsme9J	S55cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
cRmAnAm	20 2	156: 6U66	17254U5S	154: 2U7:	151-4U7S	-U74	l l b
cn&mon%	121 1	SU70	SU7S	SU72	SU7-	4U41	l l b
crwenAq	0: 2	-2US:	25U-4	-SU47	-SU65	4U12	l l b
BsrAm	1-: 1	4-4U60	422US5	41SU17	422U-1	2U5S	l l b
BsrAm	1-0 1	4-1U:	426U1-	4S6U0:	421U40	-US5	l l b
Ber%RAm	5 1	1U52	1U5-	1U07	1U70	4U-	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1S5		G
BromAne	71 1						ql w
v sOmAm	1S7 1	1U5S	1U55	1U-2	1U7S	1-U5:	l l b
v sOmAm	1S6 1	1US5	SU6:	1US2	SU52		l l b
v sOmAm	111 1	1U10	1US6	1US0	1U1S	:U2S	l l b
v sRqAm	4- 1	14S07U7-	141SSU57	1-52SU6S	14S--U40	SU0S	l l b
v sRqAm	44 1	1: S6: U6S	14716U07	147S-U52	1475: U4-	SU55	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	-: 1						ql w
v ERrAne	-: 2						ql w
v EromAm	: 2 2	-7U1S	-:U0	-6U1S	-6U2	-U76	l l b
v obsR&	: 5 2	20U21	24U55	26U42	26U21	4U27	l l b
v ol l er	6- 2	:6U24	:1U5S	: : U1:	:4U4-	4U1:	l l b
t %w l rowAm	1: 6 1						ql w
t %w l rowAm	1: 6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRnAm	16S 1						ql w
HsOoRnAm	16S 2						ql w
hoRnAm	16: 1				1S0		G
hoRnAm	16: 2				1S7		G
DnOAm	11: 1				1S0		G
DnOAm	11: 2				1S2		G
Don	: 4 2	:4471US2	:1624U67	:4S: : U42	: - -70US4	2U75	l l b
Don	: 6 2	: : 247U50	:S6S: US2	: -670U04	: -17SU7	4U44	l l b
Don	: 0 2	: : 541U-2	:1620U7S	: : 1-7U1S	:42-:U04	4U2-	l l b
Kr%&on	7- 1						ql w
LesO	2S6 1	6SU-	61U-0	:5U07	6SU6-	1U47	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 I ers&br9J	aswl sP
Lsb9psmI Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&nA&psmI Re9D 9J9	y h SF: 0	t Re&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I0J-0J S	t s&sFAe9Nsme9J	S55cC. FUO

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
LesO	2S0 1	: 7U27	: 7U-6	: 0US2	: 0U77	1U-S	I I b
LesO	2S7 1	: 5U61	: 5U61	: 7U-0	: 5U15	1U21	I I b
LA&EAum	6 1				55		G
y sMnewAum	24 2	7661US4	0752U-2	7- 51U6	7- 1: US4	4U65	I I b
y snMsnewe	: : 2	2: 26USS	2- S- U27	24: 1U21	2426U7-	4U60	I I b
y oP%bOenum	54 1	1SU64	1SU57	1SU0:	1SU05	1U-5	I I b
y oP%bOenum	5: 1	2U22	2U27	2U-1	2U20	1U55	I I b
y oP%bOenum	56 1	- U10	- U25	- U2S	- U22	1U5S	I I b
y oP%bOenum	50 1	2U21	2U42	2U22	2U27	: U17	I I b
y oP%bOenum	57 1	2U2-	2U26	2U10	2U22	1U55	I I b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	6: U52	62USS	6: U26	64U-5	- U26	I I b
8 EowI Eoruw	- 1 2	141SU01	1- - 6U42	1: 01U14	14- 5U4-	7U-	I I b
8 o&swwAum	- 5 2	4105U-1	4S- 0U7:	4147US-	4121U0-	1U7S	I I b
CEoOAum	1S- 1				1S:		G
CEoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S0		G
pqsnOAum	4: 2				1SS		G
pe&nAum	72 1	- U61	- U4-	- U-6	- U-	2U-2	I I b
pe&nAum	00 2	- 0US5	- : U70	46U44	- 5U7S	14U-4	I I b
pe&nAum	07 2	11US7	5U2-	11U4-	1SU-7	11U10	I I b
pAqon	27 1	10SUS7	102U-5	166U-S	165U-5	1U71	I I b
pAger	1S0 1	SU20	SU26	SU26	SU26	2U6S	I I b
pAger	1S5 1	SU27	SU-S	SU24	SU20	11U64	I I b
poOAum	2- 2	1162U67	1S61U-2	112: U21	1116U40	4U-7	I I b
p&onA&um	76 1	116U-7	11- U55	112U54	114U44	1U-4	I I b
p&onA&um	77 1	121U6-	115U-4	12SUS4	12SU4S	SU51	I I b
pu&ur	- 4 1	00U46	14- U-	- : 5U65	141U52		I I b
i erbAum	1: 5 1				1S5		G
i erbAum	1: 5 2				1S0		G
i EsPAum	2S- 1	SU47	SU46	SU44	SU46	- U6S	I I b
i EsPAum	2S: 1	SU47	SU46	SU4:	SU46	- U:	I I b
i A	117 1	2U-:	2U22	2U21	2U26	- U40	I I b
i A&snAum	40 1	02U-S	0- U00	01U52	02U0-	1U-S	I I b
RrsnAum	2- 7 1	- U12	- U1:	- US2	- U1S	2U16	I I b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Ae na&psml Re9D 9J9	y h SF: 0	t Ae a&on9Fsqa&br9J	1
t sa&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J S	t sa&sFAe9Nsme9J	S55c C. FU0

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
VsnsOAum	: 1 2	70U04	7SU2:	74U S	74U16	4U46	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	212U56	156U0S	2S2U52	2S-U75	-U05	l l b
ZAqonAum	5S 1	: U7	: U2:	: U27	: U S	1U2	l l b
ZAqonAum	51 1	: U2:	: US-	: U S	: U15	2U04	l l b

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	1y411.2h	16177.4-	1yy46.76	1y01y.y2	2.64	ppm
Aotiu Oo%	121 1	S.7y	S.70	S.hS	S.70	2.60	ppm
Aesboic	0y 2	22.y-	22.hS	2- .S2	22.72	1.12	ppm
BaeiNu	1- y 1	24y.11	247.02	262.67	2y2.10	- .67	ppm
BaeiNu	1- 0 1	2y1.- 2	24h.h1	266.y0	2yy.h-	- .61	ppm
Bbe%liNu	h 1	1.yS	1.y6	1.40	1.y1	- .Sy	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1S-		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.- -	2.71	1.h0	2.- 0	10.0y	ppm
Uadu iNu	1S6 1	1.- 7	- .24	1.60	2.1S		ppm
Uadu iNu	111 1	1.76	1.0y	2.S6	1.7h	7.2h	ppm
UalciNu	4- 1	1- 601.7y	1- yh2.74	14SS4.y4	1- 0y6.41	1.yh	ppm
UalciNu	44 1	144S7.6y	14111.h2	14024.47	1441y.S2	2.1-	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	26.y0	27.S6	26.hS	20.17	2.77	ppm
UOmalt	yh 2	12.46	1- .1-	12.27	12.62	- .y7	ppm
UOppbe	6- 2	- h.22	41.46	4S.2h	4S.- 2	2.07	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1S4		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	- 0h17.h2	4S620.S6	- 0- - 2.0y	- 7626.24	4.yy	ppm
IeOo	y6 2	- 76h- .2y	- h0Sh.40	- 0y20.y0	- 764- .4-	2.7-	ppm
IeOo	y0 2	- yyS2.- 0	- 0y2y.4y	- y4- - .22	- 61y- .67	- .2h	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	67.60	67.7y	6h.02	6h.S7	S.71	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	6y.- 7	64.46	60.14	6y.66	2.S0	ppm
Lbad	2S7 1	66.- -	66.07	67.01	60.20	1.77	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	6SSS.4-	64S2.72	6162.74	6177.0S	- .20	ppm
g aovaobsb	yy 2	62- .hy	64h.2h	622.y2	6- 1.h2	2.- 7	ppm
g Ol%mdboNu	h4 1	0.yh	0.66	7.12	0.0h	- .6h	ppm
g Ol%mdboNu	hy 1	2.S2	1.hS	2.14	2.S2	y.7-	ppm
g Ol%mdboNu	h6 1	2.6y	2.y2	2.72	2.60	y.6-	ppm
g Ol%mdboNu	h0 1	2.S7	2.Sh	2.S0	2.S7	S.- 6	ppm
g Ol%mdboNu	h7 1	2.S6	2.S1	2.S6	2.S4	1.yy	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	2h.76	- 1.0h	- S.- 0	- S.60	- .2y	ppm
PEOspEOeNs	- 1 2	- - 22.1S	- - - 2.02	- 2SS.6S	- 27y.14	2.2-	ppm
POtassiNu	- h 2	647y.14	6hh6.- S	6y70.- y	667h.6S	4.S4	ppm
n EOdiNu	1S- 1				1S7		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1S0		G
r caodiNu	4y 2				hy		G
r blboiNu	72 1	1.2S	1.4-	1.hS	1.y1	2- .76	ppm
r blboiNu	00 2	- 4.26	- 6.10	4S.41	- 6.h4	7.y2	ppm
r blboiNu	07 2	7.S0	0.76	0.y-	0.72	- .4-	ppm
r ilicOo	27 1	1y4.1h	1yy.y0	164.44	1y7.S0	- .y2	ppm
r ilRbe	1S0 1	S.41	S.4h	S.y1	S.40	11.y4	ppm
r ilRbe	1Sh 1	S.yS	S.y-	S.4h	S.y1	4.h6	ppm
r OdiNu	2- 2	2S2.1-	221.0-	2S- .02	2Sh.2S	y.2S	ppm
r teOotiNu	76 1	h6.26	h- .4h	1S- .SS	h0.y7	y.S1	ppm
r teOotiNu	77 1	1S2.16	hh.42	1S7.SS	1S- .1h	4.2y	ppm
r NfNe	- 4 1	14y4.y-	1420.27	1114.y1	1- - 2.11		ppm
TbemiNu	1yh 1				1Sh		G
TbemiNu	1yh 2				1S-		G
TEalliNu	2S- 1	S.- 1	S.- 4	S.- 6	S.- 4	6.07	ppm
TEalliNu	2Sy 1	S.- -	S.- 2	S.- -	S.- -	2.20	ppm
Tio	117 1	2.y7	2.4y	2.66	2.y6	4.21	ppm
TitaoiNu	40 1	1S0.66	112.41	11y.11	111.0-	- .- 7	ppm
FeaoiNu	2- 7 1	2.y7	2.6S	2.0y	2.64	- .yS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	y0.yh	yh.0h	y6.76	y7.S7	2.6-	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				1S2		G
Zioc	66 2	26h.S2	2hS.71	20y.72	207.yy	4.SS	ppm
ZieoOoiNu	hS 1	- .4h	- .46	- .07	- .y7	4.h-	ppm
ZieoOoiNu	h1 1	- .y2	- .y7	- .66	- .yh	2.S-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	17y0y.66	17446.10	17- 40.- y	174y6.- h	S.62	ppm
Aotiu Oo%	121 1	S.6h	S.02	S.72	S.04	7.60	ppm
Aesboic	0y 2	2y.y1	20.4S	26.h1	26.61	- .67	ppm
BaeiNu	1- y 1	2hh.h2	- S1.- 2	- S0.60	- S2.h0	1.- 6	ppm
BaeiNu	1- 0 1	2h7.2h	- S0.24	- 1- .0-	- S6.42	2.y-	ppm
Bbe%liNu	h 1	1.76	1.hS	1.hS	1.7h	1.1h	ppm
Bisu NtE	2Sh 1				112		G
Bisu NtE	2Sh 2				1S0		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.26	2.y0	2.2S	2.- 4	7.y6	ppm
Uadu iNu	1S6 1	1.27	1.41	- .S4	1.h1		ppm
Uadu iNu	111 1	2.44	2.- y	2.4y	2.41	2.1h	ppm
UalciNu	4- 1	10y46.67	17- 22.2S	172S1.12	17S2- .- -	2.- 1	ppm
UalciNu	44 1	1717S.70	17772.- 0	17610.0S	17y6S.- 2	1.h1	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	- - .S-	- 2.1S	- 1.h6	- 2.- 6	1.0h	ppm
UOmalt	yh 2	16.6h	16.hh	16.1h	16.62	2.42	ppm
UOppbe	6- 2	4S.04	4S.0S	- h.h1	4S.4y	1.1y	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5 emiNu	164 1						cps
5 emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				hh		G
IeOo	y4 2	4- 4y6.hh	4214- .26	4171S.12	4240S.12	2.Sy	ppm
IeOo	y6 2	422S0.- h	42114.4y	4S646.Sh	416yy.h7	2.1S	ppm
IeOo	y0 2	42y41.70	- h66y.7S	- 7- - y.S2	4S17S.hS	y.- y	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	72.y7	72.21	72.40	72.42	S.2-	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	7S.04	06.- h	07.- -	07.4h	2.00	ppm
Lbad	2S7 1	72.Sy	0h.7y	7S.22	7S.01	1.46	ppm
LitEiNu	6 1				1S1		G
g avobsiNu	24 2	04y1.0h	04Sh.1S	02y- .- 2	0- 01.4S	1.42	ppm
g aovaobsb	yy 2	h0S.14	h44.S7	h2- .70	h46.S-	2.4y	ppm
g Ol%mdboNu	h4 1	6.20	0.Sy	0.11	6.71	6.76	ppm
g Ol%mdboNu	hy 1	1.07	1.0-	1.77	1.7S	4.1h	ppm
g Ol%mdboNu	h6 1	2.- 7	2.4S	2.40	2.42	1.h1	ppm
g Ol%mdboNu	h0 1	1.61	2.S4	1.77	1.74	11.0y	ppm
g Ol%mdboNu	h7 1	1.04	1.7h	1.76	1.7-	4.1h	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	- 0.72	- 0.SS	- 6.20	- 0.S-	2.1S	ppm
PEOspEOeNs	- 1 2	217- .S4	2- 10.46	2221.y-	224S.60	- .Sh	ppm
POtassiNu	- h 2	y4h1.16	y44- .4-	y- 70.24	y44S.61	S.h6	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1Sy		G
r caodiNu	4y 1				1S7		G
r caodiNu	4y 2				h7		G
r blboiNu	72 1	1.y0	1.4S	1.6-	1.y-	0.7h	ppm
r blboiNu	00 2	4- .2-	44.02	4h.y-	4y.7-	0.17	ppm
r blboiNu	07 2	h.- 6	1S.7y	7.71	h.60	1S.h2	ppm
r ilicOo	27 1	1hy.46	2Sy.S0	2S- .70	2S1.40	2.6S	ppm
r ilRbe	1S0 1	S.0y	S.71	S.06	S.00	- .76	ppm
r ilRbe	1Sh 1	S.04	S.02	S.7-	S.06	0.27	ppm
r OdiNu	2- 2	447.22	447.7y	4- 0.- S	444.0h	1.46	ppm
r teOotiNu	76 1	1Sy.h0	1S7.- 2	111.S7	1S7.46	2.- 6	ppm
r teOotiNu	77 1	111.- S	11- .- 0	114.hh	11- .22	1.64	ppm
r NfNe	- 4 1	21S0.12	10h1.hS	16h6.y6	176y.1h		ppm
TbemiNu	1yh 1				11-		G
TbemiNu	1yh 2				1Sy		G
TEalliNu	2S- 1	S.- h	S.4S	S.- 0	S.- h	- .24	ppm
TEalliNu	2Sy 1	S.- 7	S.4S	S.4-	S.41	y.6S	ppm
Tio	117 1	1.h6	2.Sy	2.Sy	2.S2	2.4y	ppm
TitaoiNu	40 1	71.1y	74.- 6	74.21	7- .24	2.17	ppm
FeaoiNu	2- 7 1	2.4y	2.44	2.- h	2.4-	1.2-	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	6y.S7	64.4-	6- .11	64.2S	1.y6	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				11-		G
YtteiNu	7h 2				11S		G
Zioc	66 2	2y4.- 7	24h.7h	2yS.- 0	2y1.yy	S.h7	ppm
ZieoCoiNu	hS 1	- .S-	- .S4	- .1S	- .S6	1.10	ppm
ZieoCoiNu	h1 1	2.76	2.70	- .1S	2.h4	4.y7	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1171- F2J	11762Fh6	12ShhF6-	11h2JF27	1F27	l l b
cn&mon%	121 1	1F1J	1FSh	1F22	1F1J	JF47	l l b
crwenAq	0J 2	21Fh0	21FS0	22F07	21Fh4	- FhS	l l b
BsrAum	1- J 1	27- F06	2J4F7S	- SJFS1	271F1h	7Fh6	l l b
BsrAum	1- 0 1	27- F41	261F70	- S4FhJ	27- F41	0F6S	l l b
Ber%BAum	h 1	- F10	2Fh-	- F- J	- F1J	6F67	l l b
BAumu&E	2Sh 1				111		G
BAumu&E	2Sh 2				1S0		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F7h	2F12	2F40	2F16	1- F64	l l b
RsOmAum	1S6 1	2F- S	1F1h	1F6h	1F0-		l l b
RsOmAum	111 1	1F64	1F- h	1F6J	1FJ6	hF4-	l l b
RsRqAum	4- 1	1S747FSJ	hh4hFS0	11JJSF6S	1S072FJ0	0F4J	l l b
RsRqAum	44 1	111- hF17	1S44hF7J	110S7F- -	11ShhF12	JF67	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	10F26	10FS-	10FS4	10F11	SF0J	l l b
RobsR&	Jh 2	1SF4S	1SF- -	1SF64	1SF46	1FJ7	l l b
Rol l er	6- 2	- 6F4J	- 6F60	- 6F72	- 6F6J	SFJ1	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				111		G
y oFmAum	16J 2				1S0		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				hh		G
Don	J4 2	2hS07F04	2h074Fh4	- S- 40FS1	2h0- 6FhS	2F14	l l b
Don	J6 2	27647F24	2h201F11	2h76SF64	2h26SFSS	2FS0	l l b
Don	J0 2	26JJ2FJ2	20SS6F22	2001hF0h	20Sh2F74	2F10	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	1S1F70	h0F7h	11SF2J	1S- F- 4	6F1S	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	h0FS2	h4F1h	1SJF2J	h7F72	JF72	l l b
LesO	2S7 1	1SSFh2	h6FS0	1S0F7h	1S1F6-	JF7J	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	- 0S0F1J	- 6h7F6J	- 746F27	- 0JSF0S	2F21	l l b
Msngsnewe	JJ 2	7J7F2h	76hF10	777F44	701Fh6	1F0J	l l b
MoP%bOenum	h4 1	1JF17	14FJ1	10F1J	1JF61	7F7S	l l b
MoP%bOenum	hJ 1	2F6h	2F4S	2F00	2F62	0F4J	l l b
MoP%bOenum	h6 1	- F72	- F0J	4F16	- Fh1	JF62	l l b
MoP%bOenum	h0 1	2F24	2F2S	2F4J	2F- S	JFh0	l l b
MoP%bOenum	h7 1	2FJ0	2F4J	2F67	2FJ0	4F44	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	10F0-	10F06	17F- 6	10FhJ	1Fh7	l l b
8EowI Eoruw	- 1 2	1762F44	100hF72	2S21F70	1777FS4	6FJ2	l l b
8o&swwAum	- h 2	J042F- 6	J076Fhh	J766FSS	J0h7F4J	1FS7	l l b
5EoOAum	1S- 1				1S4		G
5EoOAum	1S- 2				1S4		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				h6		G
peRenAum	72 1	1F76	1F- h	1F0J	1F60	14F66	l l b
peRenAum	00 2	4hFJS	64FSh	JSF- 2	J4F6-	1JFS1	l l b
peRenAum	07 2	11F07	1SF6J	11FhS	11F44	6FS-	l l b
pARqon	27 1	127F06	11hF61	1- JF44	120Fh-	6F21	l l b
pARer	1S0 1	1F00	1F61	1FhS	1F06	7F- -	l l b
pARer	1Sh 1	1F07	1F04	1F77	1F7S	4FSS	l l b
poOAum	2- 2	hJFS-	h2F- h	hhF21	hJFJ4	- F6S	l l b
p&on&Aum	76 1	00F4-	0- FS2	76F14	07F76	7F40	l l b
p&on&Aum	77 1	00FS4	02F07	72Fh4	00FJh	6FJ7	l l b
pufFur	- 4 1	17S- F17	24JhF6h	1- 4JF04	176hFJ4		l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsFAum	2S- 1	SF- h	SF- 4	SF41	SF- 7	hF1-	l l b
i EsFAum	2SJ 1	SF- 7	SF- 4	SF4S	SF- 0	0Fh-	l l b
i An	117 1	4FS6	- F4h	4F- 2	- FhJ	1SF00	l l b
i A&snAum	40 1	20JF0S	2J4F77	277FJh	20- FS6	6F2-	l l b
UrsnAum	2- 7 1	4F- 4	- Fhh	4F47	4F20	JFhS	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109409SJ	t s&s. Re:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	4- F02	4- Fnh	4JF21	44F- 1	1F0h	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S0		G
ZAnq	66 2	- S1FJ6	- SJF67	- SJF6-	- S4F2h	SF07	l l b
ZAqonAum	hS 1	0F71	0FS0	7F1-	0F60	0FSh	l l b
ZAqonAum	h1 1	0F4h	0F11	7F16	0FJ7	0FS1	l l b

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Inst Id :P8

LB9u mb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	1: 7S2U2S	1: a21U4-	1: a07U6	1: 6- 4U$S	SU06	DDe
q5Tb n5%	121 1	4U6S	4U22	4U42	4U42	4U0	DDe
qpl r 5cl	0a 2	7SU$1	7SU17	72U1:	7SU0:	1UaS	DDe
Bwpcmb	1- a 1	6S6U0	a0SU27	a64U74	a7SU4:	- U7:	DDe
Bwpcmb	1- 0 1	611U$7	a71U44	a07U20	a: SU26	- U$0	DDe
Br p%8cmb	: 1	4U4	4U11	4U$a	4U10	- U07	DDe
Bdb mTE	2S: 1				11S		G
Bdb mTE	2S: 2				1Sa		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	2U-	- U21	2U07	2U0	0U2	DDe
v wob cmb	1S6 1	SU1a	SU2:	SU2S	SU$2		DDe
v wob cmb	111 1	2Ua2	2U42	2Ua4	2U4:	2UaS	DDe
v w8dcmb	4- 1	2- S07Ua6	22166U01	21: 01U:	224SaUaa	2U64	DDe
v w8dcmb	44 1	241S: Ua4	2- SSaU4	220- 2U2a	2- 272U7	- U1-	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- a 1						dDl
v E8hpd5r	- a 2						dDl
v Epmb cmb	a2 2	- : U-	- 7Ua:	- 7U07	- 7U S	1U$S	DDe
v new8T	a: 2	1aU77	1aU47	16U12	1aU72	2U$6	DDe
v nDDr p	6- 2	76U70	76U7	76U7-	76U6:	SU1	DDe
&%Dpnl cmb	1a6 1						dDl
&%Dpnl cmb	1a6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16a 1				1S:		G
h n8b cmb	16a 2				1S7		G
t5ocmb	11a 1				1S6		G
t5ocmb	11a 2				: :		G
tpn5	a4 2	4: : 7- U6-	477S6U01	4: : 71U02	4: a: SU6:	1U0	DDe
tpn5	a6 2	4: - 12U06	4: 4- SU6:	47: a1U76	4: 2- 1U00	SUa1	DDe
tpn5	a0 2	aS677U7	aS174U$-	aSa2- U0:	aS46aU4S	SUa1	DDe
Kp%DTn5	7- 1						dDl
Lr wo	2S6 1	- 40U1:	- 20U41	- 47U70	- 41U16	- UaS	DDe

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LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&c8mTcn59FwdTnp9J	1
&wTr 9 9Acb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFc8 9uwb r 9J	1S- qC. Flb

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5cT
Lr wo	2S0 1	2: 7U1:	276U4-	2: 6U71	2: - U71	2U1:	DDe
Lr wo	2S7 1	- - 1U7:	- 21U0S	- 26U6-	- 26U04	1Ua6	DDe
LcTEcmb	6 1				: 7		G
y wW5r l cmb	24 2	061- U6:	04- : US1	0aa- US0	0a- aU26	1U17	DDe
y w5Mw5r l r	aa 2	1a66U11	1a- : U2	1a6- U6:	1aa6Ua7	SU-	DDe
y n8%eor 5mb	: 4 1	21U a	2SU7:	2SUa6	21U1-	- U4-	DDe
y n8%eor 5mb	: a 1	7US2	0U0a	0U0-	0U7-	2US4	DDe
y n8%eor 5mb	: 6 1	: Ua4	: U2S	: U7	: U0	1U74	DDe
y n8%eor 5mb	: 0 1	7US:	0U64	7U21	0U7	- U0a	DDe
y n8%eor 5mb	: 7 1	7U11	0U02	0U7a	0US	2UaS	DDe
u r no%b cmb	1aS 1						dDl
u r no%b cmb	1aS 2						dDl
u cdkr 8	6S 2	- 4U7S	- - U12	- 4US:	- 4USS	2U40	DDe
NEnl DEnpml	- 1 2	1777Ua6	100- US0	17: 2U61	17a1U41	- U60	DDe
NnTwl cmb	- : 2	64: : US6	6- 1- U7	646- U47	642aUa1	1Ua-	DDe
CEnocmb	1S- 1				1Sa		G
CEnocmb	1S- 2				1Sa		G
l dw5ocmb	4a 1				1S6		G
l dw5ocmb	4a 2				: 0		G
l r 8 5cmb	72 1	1U4	2U11	1U a	1U7S	22U6:	DDe
l r 8 5cmb	00 2	64U42	0aU46	04U6S	01U4:	7Ua:	DDe
l r 8 5cmb	07 2	12U41	14USS	1- U4:	1- US	6US7	DDe
l c8dn5	27 1	122U6	116U0	110U10	117U6-	2U0a	DDe
l c8gr p	1S0 1	2U67	2U62	2Ua4	2U61	2U07	DDe
l c8gr p	1S: 1	2U06	2U6a	2U6-	2U67	2Ua4	DDe
l nocmb	2- 2	- 2: Ua7	- 1: U11	- 26U07	- 2aU16	1U60	DDe
l Tpn5Tcmb	76 1	10aU76	167U24	102U1	102U14	2U22	DDe
l Tpn5Tcmb	77 1	177U00	100U1a	104U27	17SUS0	4U26	DDe
l m8mp	- 4 1	12aaUa-	10- : Ua0	1604U61	1aa6Ua0		DDe
Ar pecmb	1a: 1				11S		G
Ar pecmb	1a: 2				1S6		G
AEw8cmb	2S- 1	SUa6	SUa4	SUa:	SUa6	- U67	DDe
AEw8cmb	2Sa 1	SU6S	SUa4	SU6S	SUa7	aUS7	DDe
Ac5	117 1	11U60	1SU72	1SU7S	11U1S	4Ua1	DDe
AcTw5cmb	40 1	- 14U0	2: 7U10	270Ua1	- SSUS2	4Ua1	DDe
Rpw5cmb	2- 7 1	4U76	4U62	4U76	4U07	2U2	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- q C. Fub

NwpwbrTrp	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
Vw5wocmb	a1 2	72U0	71US:	7SU4-	71U S	1U21	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	7: 1				116		G
YTTpcmb	7: 2				114		G
Zc5d	66 2	46aU06	402U66	401U0-	40SUSa	SU7S	DDe
Zcpdn5cmb	: S 1	7U6:	7USS	7U20	7U2	4U10	DDe
Zcpdn5cmb	: 1 1	7Ua0	7US0	7U47	7U0	- U10	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	22- - 1U60	2S- 7SU0	2S7JJUSJ	2117aUS-	4U7S	DDe
q5Tb n5%	121 1	1U1S	1U1J	1USO	1U11	- U7-	DDe
qpl r 5cd	0J 2	42US-	- 7U6S	42US-	4SU7a	4U7J	DDe
Bwpcmb	1- J 1	42SU7J	447U61	4- 6Ua6	4- JU40	- U2S	DDe
Bwpcmb	1- 0 1	417UJ1	4- 6U14	447U2S	4- 4U22	- U46	DDe
Br p%8cmb	a 1	2U01	2Ua0	2Ua6	2U77	4Ua4	DDe
Bdb mTE	2Sa 1				11S		G
Bdb mTE	2Sa 2				1S-		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	1U44	1UJ4	1U42	1U40	4UJ6	DDe
v wob cmb	1S6 1	1UaJ	1U6S	2U24	SU76		DDe
v wob cmb	111 1	1USS6	1UJ-	1U2-	1U21	11U2S	DDe
v w8dcmb	4- 1	0- 14- U1a	0J4- 2USa	04JJaU7a	04- 07UJa	1UJJ	DDe
v w8dcmb	44 1	0S00JU42	04- a4US7	04S06UaS	0- S72U14	2U04	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- J 1						dDl
v E8hpd5r	- J 2						dDl
v Epmb cmb	J2 2	- 6Ua-	- 4US6	- - U61	- 4U70	JU10	DDe
v new8T	Ja 2	24UJ7	22U06	2- U2J	2- U46	- UJ4	DDe
v nDDr p	6- 2	J6U41	J2U4S	J- U44	J4US7	- U74	DDe
&%Dpnl cmb	1J6 1						dDl
&%Dpnl cmb	1J6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16J 1				114		G
h n8b cmb	16J 2				1S6		G
t5ocmb	11J 1				11S		G
t5ocmb	11J 2				a0		G
tpm5	J4 2	6124JU64	J62a1UJ2	J0- 6JU62	J7- SSUa-	4U40	DDe
tpm5	J6 2	614SaU22	J6JaaU42	J07J1U27	J761aUa0	4U26	DDe
tpm5	J0 2	61aJ7UJ1	J01- 2U14	J76- aUS0	Ja24- U10	4U10	DDe
Kp%bTn5	7- 1						dDl
Lr wo	2S6 1	0- USJ	00US4	0aU20	06U4J	4U12	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r T:u wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	6aUaa	0- U71	04UJ1	02U00	- UJ4	DDe
Lr wo	2S7 1	01UaS	06U1S	00UJ7	0JU12	- U71	DDe
LdEomb	6 1				1S2		G
y wW5r l omb	24 2	- 6aa7UaJ	- - 720U6J	- J267U6S	- J- 6JUS0	4U4a	DDe
y w5Mw5r l r	JJ 2	21J0U4J	1aa- U20	2S- 6U64	2S62U4J	4U1-	DDe
y n8%eor 5mb	a4 1	0Ua2	7U4J	7UJ1	7U2a	- U7a	DDe
y n8%eor 5mb	aJ 1	- UJa	- UJ1	- U60	- UJ-	- Ua7	DDe
y n8%eor 5mb	a6 1	4US0	4US4	- Ua7	4US-	1U22	DDe
y n8%eor 5mb	a0 1	- U4J	- UJ2	- U64	- UJ4	2U67	DDe
y n8%eor 5mb	a7 1	- UJa	- U0S	- U67	- UJa	4U7J	DDe
u r no%b omb	1JS 1						dDl
u r no%b omb	1JS 2						dDl
u dkr 8	6S 2	JJUJ-	JSU0-	J2U2-	J2U06	4U44	DDe
NEnl DEnpm	- 1 2	2J7aUJa	2- J4USa	210aU22	2- 04U2-	7U60	DDe
NnTwl omb	- a 2	6aSaUSS	6- 7aUa6	6J4JU71	6614Ua2	4US-	DDe
CEnoomb	1S- 1				1S6		G
CEnoomb	1S- 2				1S1		G
l dw5oomb	4J 1				1S7		G
l dw5oomb	4J 2				a6		G
l r 8 5omb	72 1	1UJa	1U76	2U12	1U76	14US0	DDe
l r 8 5omb	00 2	J4UJ4	J7U17	02UJ7	61U6-	1JU42	DDe
l r 8 5omb	07 2	1SU66	1SUSS	1- US0	11U24	14UJ7	DDe
l d8dn5	27 1	176UJ-	1a4U72	1a4U02	1a2US2	2U47	DDe
l d8gr p	1S0 1	SU46	SUJ-	SUJJ	SUJ1	aUSa	DDe
l d8gr p	1Sa 1	SUJ1	SUJ0	SUJ2	SUJ4	6U42	DDe
l noomb	2- 2	41- U2J	- 00U17	- a2U04	- a4UJa	4UJa	DDe
l Tpn5Tomb	76 1	1J0U40	16JU22	162U7a	161U76	2U46	DDe
l Tpn5Tomb	77 1	160UJ1	10- U07	16aU1S	10SUS6	1Ua6	DDe
l m8mp	- 4 1	6J1UJ0	1S2UJa	110U60	212US-		DDe
Ar peomb	1Ja 1				11-		G
Ar peomb	1Ja 2				1S4		G
AEw8omb	2S- 1	SU47	SUJ2	SUJS	SUJS	- UaJ	DDe
AEw8omb	2SJ 1	SU4a	SUJ2	SUJ1	SUJ1	2U07	DDe
Ad5	117 1	2U1S	2U21	2U22	2U10	- U12	DDe
AdTw5omb	40 1	7aU2J	a2U42	a1U1S	aSUa2	1U0J	DDe
Rpw5omb	2- 7 1	- UJ2	- U02	- U6-	- U6-	2U06	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J1 2	76UJ4	7SU7a	71UaS	7- U1 1	- U6-	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	7a 1				110		G
YTTpcmb	7a 2				11S		G
Zc5d	66 2	- 42U01	- 1SU71	- 16U7a	- 2- U40	JU24	DDe
Zqcdn5cmb	aS 1	2Ua7	2UaJ	2Uaa	2Ua0	SU60	DDe
Zqcdn5cmb	a1 1	- U16	- U-	2Ua1	- U1-	6U6-	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6-	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1666hF- J	1J002F66	1Jh- SF2S	16124FS0	2Fh0	l l b
cn&mon%	121 1	1F20	1F17	1F20	1F24	4F2J	l l b
crwenAq	0J 2	41Fh-	- hF61	4SF10	4SFJ0	2Fhh	l l b
BsrAum	1- J 1	27- F6S	2h- FhS	2h- Fh0	2hSF4h	2FSJ	l l b
BsrAum	1- 0 1	270F16	2h6F- J	2hJF74	2h- F12	1F06	l l b
Ber%BAum	h 1	1F06	1F0h	1F04	1F06	1FJ0	l l b
BAumu&E	2Sh 1				112		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F4h	1F- 6	1F4S	1F42	4F61	l l b
RsOmAum	1S6 1	SF42	1F7-	1FS7	SF7-		l l b
RsOmAum	111 1	1FS0	SFh4	1FS6	1FS2	0F2S	l l b
RsRqAum	4- 1	17J07FJ0	17604FJS	17h0SF6-	17041F24	1FSh	l l b
RsRqAum	44 1	1h- 17F71	1hJ- 1F17	1h6- SF7-	1h4h- F61	SF72	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	4JFh-	42F4S	4- F11	4- F71	4F20	l l b
RobsR&	Jh 2	2SF61	1hF1-	1hF67	1hF71	- F00	l l b
Rol l er	6- 2	44FSh	41F- J	41F74	42F42	- F4J	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				111		G
y oPmAum	16J 2				1SJ		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				h0		G
Don	J4 2	J2Sh4Fh7	4h0h1FJ1	4hh10F24	JS6S1F24	2FJ6	l l b
Don	J6 2	J1404FJ6	47027F16	JS14- FJ-	JS11JF42	2F04	l l b
Don	J0 2	J174SF12	4h402F- 1	JSJ- 7F67	JS610FS4	2F- 4	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	JSF6J	J1F4-	JSF4S	JSF72	1FS6	l l b

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Inst Id :P8

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t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	47F-7	47Fh4	40F0J	47F-6	1F22	l l b
LesO	2S7 1	JSF-6	J1FSh	4hF-S	JSF2J	1F07	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	726hF40	0724F2S	0772FJ1	0hh2FS6	-FS-	l l b
Msngsnewe	JJ 2	2S60F4J	1hJ4FJS	1h66F7S	1hh6F2J	-F1S	l l b
MoP%bOenum	h4 1	1-FS0	1-F6J	1-F-J	1-F-6	2F1h	l l b
MoP%bOenum	hJ 1	JF04	JF60	JFJ4	JF6J	1F74	l l b
MoP%bOenum	h6 1	6F1h	6F-6	6F21	6F2J	1F40	l l b
MoP%bOenum	h0 1	JF6S	JF0S	JF44	JFJ7	2F42	l l b
MoP%bOenum	h7 1	JFJS	JF04	JF4h	JFJ7	2F4h	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	40F07	4JF-1	4JF-h	46F16	-FS4	l l b
8EowI Eoruw	-1 2	14-4F40	1-2JF0S	1-20F16	1-62F44	4FJ7	l l b
8o&swwAum	-h 2	4S24F44	-00SF0J	-hS1F-2	-7h7F7-	-F2J	l l b
5EoOAum	1S- 1				1Sh		G
5EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				111		G
pqsnOAum	4J 2				hJ		G
peRenAum	72 1	2FSh	2F74	2FS0	2F-	17Fh4	l l b
peRenAum	00 2	JhF-4	42F4-	40F2S	4hF6J	10FJ6	l l b
peRenAum	07 2	11F61	12F0h	11F72	12FS0	JF2S	l l b
pARqon	27 1	11JFh0	12SF40	122Fh0	11hF7S	2Fh6	l l b
pARer	1S0 1	SF-6	SF-2	SF-0	SF-J	6F-6	l l b
pARer	1Sh 1	SF-1	SF-0	SF-h	SF-J	11F0-	l l b
poOAum	2- 2	274F4J	260F-J	26JF10	202F-2	-F77	l l b
p&ona&Aum	76 1	70F42	77F2h	70F11	70F61	SF0S	l l b
p&ona&Aum	77 1	hSF67	h-F26	h2F2-	h2FS6	1F41	l l b
pulPur	-4 1	6JSF-7	7S2F46	626F2J	6h-FS-		l l b
i erbAum	1Jh 1				112		G
i erbAum	1Jh 2				1S-		G
i EsRAum	2S- 1	SF-J	SF-0	SF-4	SF-6	4FS-	l l b
i EsRAum	2SJ 1	SF-4	SF-0	SF-4	SF-J	4F20	l l b
i An	117 1	2FhS	-FS0	2FhJ	2Fh0	2Fh6	l l b
i A&snAum	40 1	1S4F11	1S4FS1	1S6F-h	1S4F74	1F27	l l b
UrsnAum	2-7 1	-F40	-F44	-F44	-F4J	SF4J	l l b

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RFen&psml Re:D :9	My S. 6-	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Re:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	02F11	60FJ2	60F74	6hF16	- F0S	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				110		G
Y&&Aum	7h 2				111		G
ZAnq	66 2	26- FJ6	246FJ1	2JSF21	2J- F4-	- FJ4	l l b
ZAqonAum	hS 1	4F0-	4Fhh	4F71	4F74	2F0h	l l b
ZAqonAum	h1 1	4F02	4F67	4Fh7	4F0h	- F42	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
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RFen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1046SF1S	1660JFh0	16167F0h	16067F2h	- F77	l l b
cn&mon%	121 1	1F0h	1F6J	1F70	1F00	6F20	l l b
crwenAq	0J 2	JJF0J	4hFfh	4hF71	J1F7J	6FJ1	l l b
BsrAum	1- J 1	4JSFh-	4- 1F-6	4- 6F1S	4- hF46	2F-2	l l b
BsrAum	1- 0 1	4J4F76	4- JF2S	4- - Fh2	441F- -	2F66	l l b
Ber%BAum	h 1	2FJ4	2F4-	2F-J	2F44	- F0h	l l b
BAumu&E	2Sh 1				1Sh		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F-0	- F4h	2F7J	- F24	1SFJ-	l l b
RsOmAum	1S6 1	1FS1	SF14	2F-S	1FS6	11JF0J	l l b
RsOmAum	111 1	2F7h	2FJ7	2F06	2F0J	JF62	l l b
RsRqAum	4- 1	6Sh0JF0J	J6166F6-	J61JhF-6	J0060F2J	4F71	l l b
RsRqAum	44 1	6- S- 2F64	J7242FJ0	J74hJF-1	Jhh2- FJ1	4FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	4JFh7	4- F76	42F0S	44F17	- F06	l l b
RobsR&	Jh 2	14F0S	1- Fh1	1- F07	14F1-	- FJ-	l l b
Rol l er	6- 2	hSF7J	76F2-	74F64	70F24	- F0S	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				111		G
y oFmAum	16J 2				1S6		G
DnOAum	11J 1				1S0		G
DnOAum	11J 2				h7		G
Don	J4 2	4- 41SFfh	- hJh4F64	- hh40F27	4Sh74F-S	JF1J	l l b
Don	J6 2	42- S0F66	4S- 6hFJ0	- h600F2h	4S074F74	- F-4	l l b
Don	J0 2	- 7076F70	- 7S1hF62	- 6466FJ4	- 00J0F67	- F1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	2- 7F24	226FS2	2- SFJ2	2- 1F6S	2F60	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
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RAen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	220F6S	217F21	221F74	222FJJ	2F1-	l l b
LesO	2S7 1	247F24	2- 6F4J	242F41	242F- 6	2F4-	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	1J07hF40	14606Fhh	14- 7hF02	14hJ2FS6	4Fh4	l l b
Msngsnewe	JJ 2	14JhF21	1- 0SF2J	1- J4F6h	1- h4F01	4FS4	l l b
MoP%bOenum	h4 1	1JFJ7	14F06	14F62	14Fhh	- F47	l l b
MoP%bOenum	hJ 1	4F- h	- Fh1	- Fh-	4FS7	6F67	l l b
MoP%bOenum	h6 1	JF4J	JF2-	JF2S	JF- S	2FJ0	l l b
MoP%bOenum	h0 1	4F26	4F- 4	- Fh6	4F1h	4F6h	l l b
MoP%bOenum	h7 1	4F- -	4F14	- FhS	4F1-	JF22	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	- 0F00	- 4F6J	- JFJS	- JFh0	4F4h	l l b
8 EowI Eoruw	- 1 2	2- S2F70	21h0F- 6	224SF10	2246F7S	2F- 6	l l b
8 o&swwAum	- h 2	J1JhF60	4h27F70	40h4Fh2	4h61F1J	- F02	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S7		G
pqsnOAum	4J 2				h6		G
pe?enAum	72 1	2FS4	1FJ-	1F70	1F71	14F2J	l l b
pe?enAum	00 2	67FJS	41F27	J- F66	J4F47	2JFS1	l l b
pe?enAum	07 2	11F7h	7F77	11F12	1SF6-	14F0S	l l b
pAqon	27 1	104F62	1J6F01	16SF12	16- F72	JF71	l l b
pAer	1S0 1	1F1-	1F14	1F1-	1F14	SF66	l l b
pAer	1Sh 1	1F16	1FSh	1F1-	1F1-	- F17	l l b
poOAum	2- 2	002FS1	01hF4-	02JF4S	0- 7FhJ	- FhS	l l b
p&on&Aum	76 1	266FSJ	2JJFS1	2J4FJ4	2J7FJ-	2FJ2	l l b
p&on&Aum	77 1	207FJ6	262Fh4	264F26	267FJh	- F22	l l b
pufur	- 4 1	12SJF42	- 7SF6h	4S- FJS	66- F2S	0SF72	l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsPAum	2S- 1	SF41	SF4S	SF- 0	SF4S	JFh4	l l b
i EsPAum	2SJ 1	SF42	SF4S	SF- 7	SF4S	JFJ7	l l b
i An	117 1	4F74	4FJ7	4F64	4F6h	2FhJ	l l b
i A&snAum	40 1	27SFh1	2J0F7h	2J6F- h	26JFS6	JF17	l l b
UrsnAum	2- 7 1	4FS0	- F72	- Fh2	- Fh4	- F2-	l l b

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RFen&psml Re:D :9	My S. J1	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:109J79J1	t s&s. Re:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	J1 2	60FJS	64FJ0	61Fh0	64F67	4F27	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S7		G
ZAnq	66 2	J- 1F06	4h7F- J	4h1FS7	JS0FS6	4F27	l l b
ZAqonAum	hS 1	0FSS	6F72	6F0h	6F70	1F64	l l b
ZAqonAum	h1 1	0F14	6F70	6F72	6Fh4	2F4J	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
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RFen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
cRmAAum	20 2	1hh0- F44	1hhh- F0J	22477F6S	2S717FJh	6FhJ	l l b
cn&mon%	121 1	SFh-	SF74	SF76	SF77	JFJ2	l l b
crwenAq	0J 2	1- FSJ	12F41	14F06	1- F4S	hFS6	l l b
BsrAum	1- J 1	J6JFS-	4h- FS2	4hJF24	J10F00	0Fh1	l l b
BsrAum	1- 0 1	J67FJS	4h- F- 6	4hSF60	J10FJ1	7FJ4	l l b
Ber%BAum	h 1	1F60	1F47	1F4-	1FJ2	7F- 0	l l b
BAumu&E	2Sh 1				1S0		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F04	1FJ2	1F4-	1FJ6	1SF1h	l l b
RsOmAum	1S6 1	1F4-	SF00	1F6S	SF- 1		l l b
RsOmAum	111 1	1FJS	1F20	1F4S	1F- h	7F4h	l l b
RsRqAum	4- 1	2- 166F71	21S44Fh2	2S47SF41	21J64FSJ	6FJ0	l l b
RsRqAum	44 1	2- hhSF7S	21676F67	2S066F2-	22140FhS	0FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	2- F- 4	2- F76	20FS4	24F0J	7F1S	l l b
RobsR&	Jh 2	1- F10	1- F- 2	14F7-	1- F00	6F67	l l b
Rol l er	6- 2	- hF67	4SF7S	4JF16	41F77	6Fh1	l l b
t %w l rowAum	1J6 1						ql w
t %w l rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16J 1				1S0		G
y oFnAum	16J 2				1SJ		G
DnOAum	11J 1				1S4		G
DnOAum	11J 2				hh		G
Don	J4 2	- 7J00F04	- 72J0F4J	42J0SF- -	- h7S1F74	6FS4	l l b
Don	J6 2	- 0160FJ1	- 0246F01	417- - F- 1	- 704hF10	6F7h	l l b
Don	J0 2	- J11hF62	- J4S2F0J	- 776JF2h	- 6462FJJ	JF02	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7hFJ0	74F21	00FS7	7- F62	0FJS	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
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RAen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	7JF06	0hF2-	0- Fh4	0hF6J	0F4-	l l b
LesO	2S7 1	70FJJ	71F2-	06F66	71F71	6F67	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	66- 2F4h	6014F22	04- JFJ1	6h20F41	6F- 7	l l b
Msngsnewe	JJ 2	0S2F16	0ShFhS	076F- 6	0- 2F71	6F- J	l l b
MoP%bOenum	h4 1	0FhS	7FS6	0FJJ	0F74	- F- 2	l l b
MoP%bOenum	hJ 1	1F46	1F- h	1F- 1	1F- h	JFJ2	l l b
MoP%bOenum	h6 1	2F4-	2FS0	1Fh0	2F16	11F- 4	l l b
MoP%bOenum	h0 1	1F64	1F- 0	1F- 2	1F44	11Fhh	l l b
MoP%bOenum	h7 1	1F46	1F- J	1F4-	1F41	- FhS	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	2- F- -	24F6h	26F62	24F77	6F64	l l b
8 EowI Eoruw	- 1 2	266JF64	26S4F- 0	- 2ShF0h	2726F6S	11F0h	l l b
8 o&swwAum	- h 2	66hhF00	66- 2FSh	047JF16	6h- hFSS	6F7-	l l b
5 EoOAum	1S- 1				1S-		G
5 EoOAum	1S- 2				1S-		G
pqsnOAum	4J 1				1S6		G
pqsnOAum	4J 2				h6		G
pe Re nAum	72 1	SFh0	SF7J	SFJJ	SF0h	20F- 6	l l b
pe Re nAum	00 2	22FSJ	- 7F02	44FJ2	- JF1S	- - F2-	l l b
pe Re nAum	07 2	6FJ7	6F26	JF67	6F10	0F- 2	l l b
pARqon	27 1	1h1F- 0	10hFh1	101F1S	17SF0h	JF62	l l b
pARer	1S0 1	SF2h	SF2J	SF2J	SF26	7FJS	l l b
pARer	1Sh 1	SF2h	SF2J	SF24	SF26	hFSS	l l b
poOAum	2- 2	174Fh2	17JFJJ	224F- 2	1h7F26	11F- 7	l l b
p&ona&Aum	76 1	J10F1-	472F40	474FJJ	4h4F02	- Fh-	l l b
p&ona&Aum	77 1	J- 7F- J	JS4FJ4	47- FS4	JS7F64	JF47	l l b
pu Rur	- 4 1	- 46FS-	764F- 0	1201F06	Jh6F0S		l l b
i erbAum	1Jh 1				1S7		G
i erbAum	1Jh 2				1SJ		G
i EsRAum	2S- 1	SF- -	SF20	SF27	SF- S	11FSJ	l l b
i EsRAum	2SJ 1	SF- 1	SF- S	SF- 1	SF- S	1FJ6	l l b
i An	117 1	2F46	2FS1	2F11	2F1h	1SF07	l l b
i A&snAum	40 1	11- FJ2	1S4Fh6	1S1F2J	1S6FJ7	JFhS	l l b
UrsnAum	2- 7 1	2F76	2F66	2F47	2F66	0F2-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J4	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	J7F7S	JhF0-	6JF01	61F41	6F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S7		G
Y&&Aum	7h 2				1S6		G
ZAnq	66 2	20hFJ0	277FJ6	- 16F16	2h4F06	6F40	l l b
ZAqonAum	hS 1	- FhS	- F6J	- F0S	- F0J	- FJS	l l b
ZAqonAum	h1 1	4F11	- F0S	- F4S	- F0-	hF6J	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	146- - .04	14700.67	14y16.h-	14606.12	1.2y	ppm
Aotiu Oo%	121 1	S.- 2	S.- 6	S.- 4	S.- 4	0.16	ppm
Aesboic	0y 2	1S.42	h.0h	h.44	h.77	y.Sy	ppm
BaeiNu	1- y 1	- 1h.2y	- 24.- S	- 17.SS	- 2S.y2	1.S4	ppm
BaeiNu	1- 0 1	- 22.40	- 27.04	- 16.04	- 22.6y	1.76	ppm
Bbe%liNu	h 1	1.S4	1.Sy	1.S4	1.S4	S.- 4	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1Sy		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	S.40	1.S-	S.66	S.02	- h.y-	ppm
Uadu iNu	1S6 1	- .07	- .46	y.S4	4.Sh		ppm
Uadu iNu	111 1	S.4h	S.y1	S.4y	S.47	y.h-	ppm
UalciNu	4- 1	1y244.26	1y461.S4	1y477.76	1y- h7.Sy	S.70	ppm
UalciNu	44 1	1y064.- y	1y066.2y	161- 1.- 6	1y770.- 2	1.- -	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	1y.1y	1y.72	1y.16	1y.- 7	2.y1	ppm
UOmalt	yh 2	h.4y	h.y6	h.- 0	h.46	1.S-	ppm
UOppbe	6- 2	21.01	22.1S	22.1-	21.h7	1.S0	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	201y1.61	20S1S.71	26464.yy	2670y.66	1.- y	ppm
IeOo	y6 2	26yh2.44	26yy7.7y	2626S.04	2640S.60	S.6h	ppm
IeOo	y0 2	2462h.60	24h0h.61	24074.44	240h0.h1	S.01	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	- 0.S4	- 6.6h	- 6.hS	- 6.77	S.4h	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	- y.16	- y.- 0	- y.04	- y.42	S.7-	ppm
Lbad	2S7 1	- 6.- y	- 6.10	- 6.17	- 6.2-	S.27	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	y220.h4	y- yh.7-	y- yh.02	y- 1y.7-	1.4-	ppm
g aovaobsb	yy 2	477.h2	470.h-	47S.20	47y.01	S.h0	ppm
g Ol%mdboNu	h4 1	4.6-	4.2h	4.y7	4.yS	4.1y	ppm
g Ol%mdboNu	hy 1	S.07	S.67	S.0S	S.02	6.h1	ppm
g Ol%mdboNu	h6 1	1.17	1.16	1.1S	1.1y	- .4S	ppm
g Ol%mdboNu	h0 1	S.0y	S.6-	S.67	S.6h	7.00	ppm
g Ol%mdboNu	h7 1	S.04	S.67	S.66	S.6h	y.76	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	17.h4	17.1y	1h.S1	17.0S	2.y4	ppm
PEOspEOeNs	- 1 2	1S- 1.14	1S- 6.S2	h- - .06	1SSS.- 1	y.00	ppm
POtassiNu	- h 2	26h6.yS	201y.h7	2606.y6	26h6.- y	S.0-	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1Sh		G
r caodiNu	4y 2				h4		G
r blboiNu	72 1	S.S0	S.1-	S.64	S.27	111.y2	ppm
r blboiNu	00 2	- 1.11	21.26	- 2.07	27.- h	21.h-	ppm
r blboiNu	07 2	6.- 0	y.64	6.4S	6.14	0.S6	ppm
r ilicOo	27 1	14S.40	147.- h	146.- 0	14y.S7	2.74	ppm
r ilRbe	1S0 1	S.11	S.12	S.1-	S.12	6.h2	ppm
r ilRbe	1Sh 1	S.1-	S.1-	S.11	S.12	h.yh	ppm
r OdiNu	2- 2	- 47.74	- yh.h7	- y1.- S	- y- .- 0	1.66	ppm
r teOotiNu	76 1	- 2h.7S	- - 4.00	- 24.7S	- 2h.0h	1.y1	ppm
r teOotiNu	77 1	- 41.y0	- 47.- 1	- - 6.12	- 42.SS	1.0h	ppm
r NfNe	- 4 1	2- S2.0-	2S04.1-	21yS.- 6	210y.04		ppm
TbemiNu	1yh 1				112		G
TbemiNu	1yh 2				1S2		G
TEalliNu	2S- 1	S.2S	S.22	S.22	S.21	0.S0	ppm
TEalliNu	2Sy 1	S.22	S.2-	S.22	S.22	2.yS	ppm
Tio	117 1	1.20	1.- 1	1.26	1.27	2.14	ppm
TitaoiNu	40 1	6y.SS	66.yy	60.Sy	66.2S	1.62	ppm
F eaoiNu	2- 7 1	1.- y	1.- y	1.4y	1.- 7	4.26	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	- h.42	- h.h7	- h.02	- h.01	S.0S	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				hh		G
Zioc	66 2	12S.02	121.y2	11h.4-	12S.y6	S.77	ppm
ZieccOoiNu	hS 1	2.1-	2.24	2.1y	2.10	2.y6	ppm
ZieccOoiNu	h1 1	2.2y	2.- -	2.- S	2.2h	1.0-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
AlNu ioiNu	20 2	2460- F12	2S462F62	2S- 6- F77	217- - F21	11F20	ppm
Aotiu Oo%	121 1	SFhh	SFhn	SFh4	SFh6	4F64	ppm
Aesboic	0h 2	4- F0n	- 0F6n	- - F74	- 7F44	1- FSh	ppm
BaeiNu	1- h 1	- 72F7-	- n1F- S	- 74F14	- 76FSn	1F17	ppm
BaeiNu	1- 0 1	- 74F01	- n7F4-	- n1FS1	- n1F- 7	1F06	ppm
Bbe%liNu	n 1	1F02	1F02	1F60	1F0S	1Fhn	ppm
Bisu NtE	2Sn 1				11S		G
Bisu NtE	2Sn 2				1SS		G
BeOu iob	71 1						cps
Radu iNu	1S7 1	1F2-	SFn0	SF0h	SFn7	24F72	ppm
Radu iNu	1S6 1	2Fh2	- F10	- Fh0	- FSn		ppm
Radu iNu	111 1	1FSh	SFn7	SFn7	1FSS	4F27	ppm
RalciNu	4- 1	1- 72hF7n	14S14F2-	1- nn2F62	1- n44F24	SF04	ppm
RalciNu	44 1	1406hF04	144S- F- n	142- hFn1	14467F- h	1F70	ppm
RaemOo	12 1						cps
RaemOo	12 2						cps
REIOeiob	- h 1						cps
REIOeiob	- h 2						cps
REeOu iNu	h2 2	h4F4n	4hFS7	4hF24	47F20	11F16	ppm
ROmalt	hn 2	- - Fn0	20Fnh	27F14	- SFS2	11F4S	ppm
ROppbe	6- 2	06Fn0	6- F2S	64F40	67F21	11F16	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
CemiNu	164 1						cps
CemiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
y Olu iNu	16h 1				11S		G
y Olu iNu	16h 2				1SS		G
IodiNu	11h 1				1S6		G
IodiNu	11h 2				n-		G
IeOo	h4 2	02hSSF06	hn726F27	6Sn00Fh6	644- 4F70	1SF77	ppm
IeOo	h6 2	016n- F74	hn604F0S	hnh- nF7h	6- 6- 6F1-	1SFn0	ppm
IeOo	h0 2	0- S21F20	6S7- 2Fn-	616S1FS6	6h1h1F06	1SF47	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	h6F- h	h0F07	h6FS4	h6F02	1F64	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
Lbad	2S0 1	h- F1S	h4F74	h- FS7	h- F60	1F7n	ppm
Lbad	2S7 1	h4F6n	h6F20	h4F61	hhF1n	1F01	ppm
LitEiNu	6 1				1S2		G
MagobsiNu	24 2	1- 112F04	1Sh06Fn0	1S0n1F66	114n- F0n	12F2-	ppm
Maogaobsb	hh 2	2646Fn7	2170F1n	2227Fn-	2- h4F- 0	1SF7S	ppm
MOl%mdboNu	n4 1	hF61	hF21	hF11	hF- 1	hFSS	ppm
MOl%mdboNu	nh 1	1F0h	1F06	1F77	1F0n	- Fnn	ppm
MOl%mdboNu	n6 1	2F1S	2F24	2FSn	2F14	- F74	ppm
MOl%mdboNu	n0 1	1F07	1F74	1Fn4	1F7h	4F- 1	ppm
MOl%mdboNu	n7 1	1F04	1F0h	1F7h	1F07	- FhS	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	7- FS0	67F77	60F0h	0- F2-	11F66	ppm
PEOspEOeNs	- 1 2	2277Fhh	211nF27	21n0F- 2	22S1F01	- F7h	ppm
POtassiNu	- n 2	07h- F0n	6h- hFn6	6h17F- h	6n6nF- 6	1SFnn	ppm
5 EOdiNu	1S- 1				1S0		G
5 EOdiNu	1S- 2				nn		G
r caodiNu	4h 1				1S7		G
r caodiNu	4h 2				n1		G
r blboiNu	72 1	- F12	2FnS	2F40	2F7-	11Fhn	ppm
r blboiNu	00 2	- hFn2	- 6F0-	- 6Fn4	- 6Fh-	1F40	ppm
r blboiNu	07 2	1- F24	nF0h	0F77	1SF2n	26F44	ppm
r ilicOo	27 1	21nF1h	21hFh0	214F0-	216F47	1FS7	ppm
r ilvbe	1S0 1	SF2n	SF27	SF- S	SF2n	2F2-	ppm
r ilvbe	1Sn 1	SF- 2	SF27	SF27	SF2n	7F62	ppm
r OdiNu	2- 2	h20F- 2	4- 7F07	4- 2F0-	466F27	11F- 6	ppm
r teOotiNu	76 1	11SF06	112F7S	112F22	111Fn-	SFn-	ppm
r teOotiNu	77 1	114F1h	121F16	11nFh2	117F27	- F1S	ppm
r NfNe	- 4 1	2Sh7F17	210hF4n	227hF21	2102Fn6		ppm
TbemiNu	1hn 1				11S		G
TbemiNu	1hn 2				nn		G
TEalliNu	2S- 1	SF42	SF46	SF4h	SF44	- Fn0	ppm
TEalliNu	2Sh 1	SF41	SF4h	SF41	SF42	6F1S	ppm
Tio	117 1	SFn7	1F11	1FS0	1FSh	hFn0	ppm
TitaoiNu	40 1	h0F6n	h0F74	h0FS-	h0Fh2	SF0h	ppm
UeaoiNu	2- 7 1	2F76	- FS1	2Fn4	2Fn-	2F40	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
VaoadiNu	h1 2	1SnF0n	nSF72	nSFnn	n0F2S	11F22	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				11-		G
YtteiNu	7n 2				1S2		G
Zioc	66 2	2n7FnS	24nF- -	24hF- 6	264Ffn-	11F27	ppm
ZieoCoiNu	nS 1	2F1n	2F2-	2F24	2F22	1F1h	ppm
ZieoCoiNu	n1 1	2F14	2F2h	2F- 2	2F24	4FS4	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&or9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 6h	t Ro&on9 sq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsmea&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
cRmAnAum	20 2	- 1712F- h	- 1720F41	- 24S- F6S	- 2S14F40	1FS:	l l b
cna&mon%	121 1	SF77	SF0h	SF6h	SF0h	12F40	l l b
crwenAq	0: 2	26F16	20FS1	2: F: :	26F24	2F0h	l l b
BsrAum	1- : 1	40SFhh	42: FS1	412F: :	4- 6F17	0FS6	l l b
BsrAum	1- 0 1	401FS1	422F6h	42- F7h	4- hF2S	6F20	l l b
Ber%BAum	h 1	2FhS	2F66	2F6-	2F0-	: F46	l l b
BAumu&E	2Sh 1				1S2		G
BAumu&E	2Sh 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	2FS2	1F04	1F: S	1F06	14F06	l l b
RsOmAum	1S6 1	1Fh1	SF: 2	SFh4	SF1:	1S14F44	l l b
RsOmAum	111 1	1F02	1F: -	1F: 1	1F: h	0F- 2	l l b
RsRqAum	4- 1	47- : 4F- 0	42- - - F4-	4S7- hF47	4- 742F4-	hFS0	l l b
RsRqAum	44 1	: SS- : F4:	4- 77- F47	416S7F- S	4: 10: F04	hF6:	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- : 1						ql w
REFrAne	- : 2						ql w
REromAum	: 2 2	42F- -	42F71	42F27	42F40	SF6h	l l b
RobsR&	: h 2	21F- :	22F16	22F2h	21Fh-	2F- -	l l b
Rol l er	6- 2	47F0S	4hF00	: SF: 7	4hF67	1FhS	l l b
t %wl rowAum	1: 6 1						ql w
t %wl rowAum	1: 6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16: 1				1S:		G
y oPmAum	16: 2				1S0		G
DnOAum	11: 1				1S1		G
DnOAum	11: 2				1SS		G
Don	: 4 2	62106F72	6- 44SF: 2	6- 41- FS2	6- S1SF12	1F1:	l l b
Don	: 6 2	61014FS-	6202- F: 6	6- S2SF: 7	62476FS:	1F1S	l l b
Don	: 0 2	626- SF: 1	64100F: 6	6- h: 7Fh7	6- : 7hFS2	1F- 2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7- FSS	0- F20	0SF1:	0: F40	7F70	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenA9psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF9RonqF	Ronq5pt	UnA&w
LesO	2S0 1	0hFh1	6hF04	66F: S	02FS:	hF01	I I b
LesO	2S7 1	71Fh-	01F40	67F26	0- F7h	hF67	I I b
LAEAum	6 1				h7		G
MsgnewAum	24 2	14S7: F14	14022F6h	14- 66F16	14- h1F- -	2F22	I I b
Msngsnewe	: : 2	11S1F1S	11- 4F7h	1120FS6	1121FS2	1F: 7	I I b
MoP%bOenum	h4 1	11FS-	hF64	hFS0	hFh1	1SF10	I I b
MoP%bOenum	h: 1	2Fh7	2F: h	2F: 4	2F0S	hFSS	I I b
MoP%bOenum	h6 1	- FhS	- F46	- F20	- F: 4	hF2S	I I b
MoP%bOenum	h0 1	- F1S	2FhS	2F01	2FhS	6F67	I I b
MoP%bOenum	h7 1	- FS0	2Fh1	2F6:	2F77	0F4h	I I b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	: hF2:	: hF7h	61F12	6SFSh	1F: 7	I I b
8EowI Eoruw	- 1 2	1661F- 6	1077Fh0	1h- 4Fh-	10h: FSh	0F6-	I I b
8oa&swwAum	- h 2	6616F7h	67S6F0-	674SF2S	60: 4F6S	1F07	I I b
5EoOAum	1S- 1				1SS		G
5EoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S2		G
pqsnOAum	4: 2				hh		G
peRenAum	72 1	- F: h	1F04	2F: h	2F64	- : F16	I I b
peRenAum	00 2	6- FhS	6SFS-	6- F61	62F: 1	- F4:	I I b
peRenAum	07 2	hF24	1SF44	12FSh	1SF: h	1- F: S	I I b
pARqon	27 1	2- 6FS-	21SF- 7	1h: F4h	21- Fh0	hF: h	I I b
pARer	1S0 1	SF- 0	SF- -	SF- 2	SF- 4	0Fh2	I I b
pARer	1Sh 1	SF- 6	SF- 2	SF- 1	SF- -	7F2-	I I b
poOAum	2- 2	20SFhS	20hF7S	27SF01	200F14	1Fh6	I I b
p&ona&Aum	76 1	10- F- 2	1: 0F61	140F64	1: hF: 2	7F11	I I b
p&ona&Aum	77 1	174FS7	161F0:	1: 7F77	167F24	7F2S	I I b
pufFur	- 4 1	221F46	1126F4:	1414Fh4	00- F- 1		I I b
i erbAum	1: h 1				1S4		G
i erbAum	1: h 2				1S0		G
i EsRAum	2S- 1	SF00	SF6h	SF6h	SF02	6F67	I I b
i EsRAum	2S: 1	SF07	SF0S	SF60	SF02	7FSS	I I b
i An	117 1	4F- 1	- F64	- FhS	- Fh:	7F: 6	I I b
i A&snAum	40 1	1S: F- 4	h- F: 7	7hF72	h6F2:	7F41	I I b
UrsnAum	2- 7 1	- F66	- F1h	- FS:	- F- S	hF64	I I b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
VsnsOAum	: 1 2	h: F0:	h: F44	h0F44	h6F21	1F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				111		G
Y&&Aum	7h 2				114		G
ZAnq	66 2	26- F- S	260F2S	26hF0:	266F0:	1F22	l l b
ZAqonAum	hS 1	4F07	4F2-	- Fh6	4F- 2	hF0S	l l b
ZAqonAum	h1 1	4Fhh	4F11	4F2:	4F4:	1SF: h	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1791 - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	17JS- FJ0	10706F71	10066FS6	17172F27	- F4h	l l b
cn&mon%	121 1	1F6J	1F01	1F02	1F01	1FS2	l l b
crwenAq	0h 2	0SFJ6	60F2J	67F- 1	67F7h	2F0h	l l b
BsrAum	1- h 1	40- FJ1	461FSJ	404F4J	46JF7-	1F61	l l b
BsrAum	1- 0 1	462F42	461FJS	476FJJ	40SF44	- FSh	l l b
Ber%BAum	J 1	- F00	- F71	- F0S	- F06	1F4J	l l b
BAumu&E	2SJ 1				1S7		G
BAumu&E	2SJ 2				1S7		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F6S	4F2J	- F- 4	- F04	1- FS7	l l b
RsOmAum	1S6 1	4F1-	1FJ1	- F22	- FSJ	- 6FS2	l l b
RsOmAum	111 1	- F41	- F22	- F2S	- F27	- F6h	l l b
RsRqAum	4- 1	4SJ64Fh2	4SS06F2h	4S6S- F01	4Sh47F16	1F1S	l l b
RsRqAum	44 1	4- S6SF2-	42112FS6	421h- F46	42441FJ2	1F26	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	20F47	2hF6S	2hF44	26F10	4F- 4	l l b
RobsR&	hJ 2	16F40	1hF- 2	1hF21	1hF60	4F44	l l b
Rol l er	6- 2	6- F- 7	h7F00	h7F02	6SF2J	4F44	l l b
t %w l rowAum	1h6 1						ql w
t %w l rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16h 1				111		G
y oFnAum	16h 2				1S7		G
DnOAum	11h 1				1SJ		G
DnOAum	11h 2				1S1		G
Don	h4 2	62027FJ0	h0h42F27	h6- J- F67	h7777F- 1	hF0-	l l b
Don	h6 2	62S0hF26	h027hF4h	h062hF22	h7JJhF- 1	4Fh-	l l b
Don	h0 2	62hhhF6-	h0JS0FSS	h07J2F64	hJ4h1F06	4Fh2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	247FhS	241F1-	24JFh4	246F- J	1F76	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179 1 - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	242FJh	2- 2FJS	2- 0F0J	2- 0F77	2F11	l l b
LesO	2S7 1	2h0F60	2hSF7-	2hhF70	2h4F0J	1F- J	l l b
LA&EAum	6 1				1S2		G
MsgnewAum	24 2	10J12FJ4	10S6- F4-	16hh1F12	1010hF7-	4FSS	l l b
Msngsnewe	hh 2	2114F74	1J0- FS0	1Jh0F62	2S1hF17	4F- S	l l b
MoP%bOenum	J4 1	12F47	11F72	12F10	12F16	2F0-	l l b
MoP%bOenum	Jh 1	hFJ4	6FS6	6FS-	6FS1	1FS7	l l b
MoP%bOenum	J6 1	6F0-	6F64	6F04	6F0S	SF7S	l l b
MoP%bOenum	J0 1	6F11	6F1-	6FSS	6FS7	1F10	l l b
MoP%bOenum	J7 1	6FSS	hFJ2	6F1S	6FS1	1F40	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 1F0S	2JF21	27F- 7	2JF06	hF71	l l b
8 EowI Eoruw	- 1 2	1J- 6FJ2	17J6Fh2	17J- F27	1JS7FJ1	1F20	l l b
8 o&swwAum	- J 2	7S0SF24	06- - F4h	06S7FSS	000SFh0	- F- 4	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S0		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				1S1		G
pe&enAum	72 1	1F0J	1F4J	1F04	1F60	JF74	l l b
pe&enAum	00 2	70F77	7hFS-	7SF44	74F4h	4F4h	l l b
pe&enAum	07 2	14Fh6	1- F44	1hFJJ	14F66	7F0-	l l b
pAqon	27 1	1h1F26	14JFSS	147F4S	14JFhh	1FS1	l l b
pAer	1S0 1	1F7h	1F6J	1F0J	1F07	4F62	l l b
pAer	1SJ 1	1F07	1F71	1F7-	1F71	1F- h	l l b
poOAum	2- 2	2hSF2J	2- 0F07	2- 6FJS	241F66	- F1S	l l b
p&on&Aum	76 1	147F22	1hSFSS	14JF70	14JF- 6	SF66	l l b
p&on&Aum	77 1	1h6F7J	1h0F4J	1h2F2J	1hhFhh	1F7-	l l b
pufur	- 4 1	- JF1h	76F4S	7- F- S	14FS7		l l b
i erbAum	1hJ 1				111		G
i erbAum	1hJ 2				1S0		G
i EsFAum	2S- 1	SF6J	SF6J	SF6J	SF6J	SF1J	l l b
i EsFAum	2Sh 1	SF0S	SF67	SF66	SF67	2FJJ	l l b
i An	117 1	- F4-	- F- 0	- Fhh	- F4h	2F67	l l b
i A&snAum	40 1	462F26	447F0J	4h6F64	4hhF7J	1F47	l l b
UrsnAum	2- 7 1	6FS0	hF74	6FS4	hFJ7	2FS0	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179 1 - 9 J	t s&s. Re:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	60F44	6- FJS	62F74	64F02	- F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				117		G
ZAnq	66 2	672F21	6- 2F6-	6- JF4-	6h1F42	4F1-	l l b
ZAqonAum	JS 1	4FS7	4F1h	4F2h	4F16	2FS7	l l b
ZAqonAum	J1 1	4F- 6	4F- 1	4F20	4F- 1	1F14	l l b

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	21717.yy	22S4- .22	216h6.- 1	217- y.h1	S.7y	ppm
Aotiu Oo%	121 1	2.S6	2.- 2	2.2-	2.2S	6.1S	ppm
Aesboic	0h 2	71.S7	71.12	0y.7S	7S.66	S.y-	ppm
BaeiNu	1- h 1	h- h.0h	hhy.- 7	hh2.2-	h4y.12	2.21	ppm
BaeiNu	1- 0 1	h20.77	h6h.- y	hhS.1S	h40.0y	- .44	ppm
Bbe%liNu	y 1	4.S7	4.2h	4.26	4.1y	2.- y	ppm
Bisu NtE	2Sy 1				11S		G
Bisu NtE	2Sy 2				1S6		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	h.h4	4.77	h.y0	h.40	1S.S-	ppm
Uadu iNu	1S6 1	- .h2	4.40	4.1y	4.S6	12.Sy	ppm
Uadu iNu	111 1	- .y7	4.- 4	4.S0	4.1-	4.h2	ppm
UalciNu	4- 1	4- yh- .20	4h662.47	4h- 40.h6	44y70.00	2.S2	ppm
UalciNu	44 1	4h044.16	46yS2.4y	46001.22	46402.62	1.- 6	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- h 1						cps
UElOeiob	- h 2						cps
UEeOu iNu	h2 2	- 2.6-	- - .2S	- 2.6h	- 2.7-	S.yy	ppm
UOmalt	hy 2	2S.0y	21.47	2S.06	21.S1	1.y4	ppm
UOppbe	6- 2	yS.71	y2.2-	y1.76	y1.64	S.7S	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16h 1				11S		G
MOlu iNu	16h 2				1S7		G
IodiNu	11h 1				1S7		G
IodiNu	11h 2				1SS		G
IeOo	h4 2	6yhyy.74	6y614.1-	67722.67	6y- 4h.hh	S.6h	ppm
IeOo	h6 2	674- 0.20	6y- S7.h-	6y110.h4	67yh4.44	S.66	ppm
IeOo	h0 2	0S- 6- .0h	0Sy7S.2h	01S4h.27	0S0y6.4-	S.h-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	247.67	2h0.1h	2h4.S-	2h- .2y	1.6y	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	24S.hS	24y.Sy	24h.14	244.y1	1.06	ppm
Lbad	2S7 1	2hy.- -	26y.S1	26h.24	264.h-	1.7h	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	172y0.01	1ySy6.00	176- S.17	17604.77	2.1h	ppm
g aovaobsb	hh 2	2hy1.40	261S.76	26- h.21	2612.h1	S.74	ppm
g Ol%mdboNu	y4 1	17.S1	17.40	17.4-	17.- S	1.- y	ppm
g Ol%mdboNu	yh 1	7.S6	7.1-	7.24	7.1h	1.1-	ppm
g Ol%mdboNu	y6 1	y.2h	y.1h	y.21	y.2S	S.hh	ppm
g Ol%mdboNu	y0 1	7.Sh	7.42	7.16	7.21	2.- 4	ppm
g Ol%mdboNu	y7 1	7.2S	7.h4	0.y7	7.24	- .4S	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	4S.y6	42.2-	41.04	41.64	1.h4	ppm
PEOspEOeNs	- 1 2	24y0.S6	2h6S.S4	2- 2h.- S	246S.7S	4.y4	ppm
POtassiNu	- y 2	0721.h-	0y10.h1	0766.hh	0767.h-	S.61	ppm
n EOdiNu	1S- 1				1S6		G
n EOdiNu	1S- 2				1Sh		G
r caodiNu	4h 1				1Sy		G
r caodiNu	4h 2				yy		G
r blboiNu	72 1	1.yS	2.4-	2.- y	2.24	12.yy	ppm
r blboiNu	00 2	06.h1	70.71	70.S0	7- .0y	0.h4	ppm
r blboiNu	07 2	1h.44	1h.h-	1h.66	1h.h4	S.01	ppm
r ilicOo	27 1	146.21	161.S-	1h2.yS	1h- .- 7	4.74	ppm
r ilRbe	1S0 1	1.71	1.y1	1.76	1.76	2.h1	ppm
r ilRbe	1Sy 1	1.7S	2.S4	1.7h	1.yS	6.hh	ppm
r OdiNu	2- 2	- h1.27	- 6S.47	- h2.y7	- h4.y2	1.- 7	ppm
r teOotiNu	76 1	1y1.- 6	1yS.22	174.6S	177.0-	1.y2	ppm
r teOotiNu	77 1	1y2.h7	1yy.16	1yh.- 1	1yh.67	1.6y	ppm
r NfNe	- 4 1	10S.2y	ySS.h6	y60.2-	60y.- 6	6h.S7	ppm
TbemiNu	1hy 1				11S		G
TbemiNu	1hy 2				1Sh		G
TEalliNu	2S- 1	S.0y	S.71	S.00	S.0y	2.00	ppm
TEalliNu	2Sh 1	S.07	S.00	S.72	S.0y	- .0y	ppm
Tio	117 1	6.2h	6.0y	6.07	6.61	4.67	ppm
TitaoiNu	40 1	- h6.SS	- 67.0-	- 60.7y	- 64.2S	1.yh	ppm
F eaoiNu	2- 7 1	6.70	0.S6	6.y2	6.yh	1.4h	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169- -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	h1 2	7S.72	7S.60	7S.- 4	7S.61	S.- 1	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7y 1				12S		G
YtteiNu	7y 2				110		G
Zioc	66 2	60- .6h	67S.60	6h7.04	601.S2	1.60	ppm
ZieccOoiNu	yS 1	6.6S	6.6-	6.h6	6.6S	S.h6	ppm
ZieccOoiNu	y1 1	6.h4	6.64	6.7-	6.60	2.2-	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1JS72Fh2	10h60FhS	1h072F2h	10400F42	JF4h	l l b
cn&mon%	121 1	- F71	4FS2	4FS4	- FJ6	- F22	l l b
crwenAq	0h 2	1S4F2h	J6F72	77F0S	J6FhJ	7FSh	l l b
BsrAum	1- h 1	h20F27	h- hF14	h1hF46	h2hFJ6	1F77	l l b
BsrAum	1- 0 1	h- SF06	h- 6FJh	h10F47	h27F4S	1F77	l l b
Ber%BAum	J 1	2FhJ	2Fhh	2F40	2Fh4	2F47	l l b
BAumu&E	2SJ 1				11-		G
BAumu&E	2SJ 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1- F4J	16F16	14FJ-	14F76	7FJ0	l l b
RsOmAum	1S6 1	1SF04	11F41	1SF2J	1SF71	hF22	l l b
RsOmAum	111 1	1SF64	1SF74	1SFh2	1SF60	1Fh4	l l b
RsRqAum	4- 1	27274F2-	2JS- 2F6h	2772- FS0	2701- F- 2	1F- 4	l l b
RsRqAum	44 1	2J60SF0-	2JJ- 6FJ-	- S1SJF27	2JJShF6h	SF04	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	4SF62	- 6FJ1	- - F71	- 0F12	JF1J	l l b
RobsR&	hJ 2	16F0-	1hF41	1- F62	1hF2h	1SF26	l l b
Rol l er	6- 2	177F- -	102F6h	1h6F47	102F4J	JF2-	l l b
t %w l rowAum	1h6 1						ql w
t %w l rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16h 1				112		G
y oFmAum	16h 2				1S0		G
DrOAum	11h 1				112		G
DrOAum	11h 2				1S1		G
Don	h4 2	hJ424F42	h- 044F22	4746JF1S	h- 70JF2h	1SF10	l l b
Don	h6 2	h760hF7S	h4SS- F- 4	474JJFS4	h- 026FS6	JF47	l l b
Don	h0 2	hJ4h1F- S	h40- SF21	47714FJS	h4- - 2F14	JF71	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	10JJF72	10J2F44	1004F4J	1077FJ2	SF0-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	102- Fh0	10hSF01	1064F-4	1046F21	1F1J	l l b
LesO	2S7 1	1007F60	1004FJ2	107hFS-	100JFh4	SF2J	l l b
LA&EAum	6 1				1S4		G
MsgnewAum	24 2	141h0FJS	1200SFh-	11- h7F42	12062F27	1SFJ0	l l b
Msngsnewe	hh 2	222hF-S	2S4SFh2	171- FSh	2S26F2J	1SF1J	l l b
MoP%bOenum	J4 1	JFhS	JF2J	JFS1	JF20	2F61	l l b
MoP%bOenum	Jh 1	hF46	hF26	hF-2	hF-h	1F70	l l b
MoP%bOenum	J6 1	hF71	6FS7	hF71	hFJS	2F61	l l b
MoP%bOenum	J0 1	hF4h	hF6h	hF02	hF61	2F4J	l l b
MoP%bOenum	J7 1	hF46	hF44	hF-7	hF4-	SF6J	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 0F14	- - F62	27FJh	- - F2-	12F-6	l l b
8 EowI Eoruw	- 1 2	- 16SF- -	- 147F42	2066F00	- S2hF10	0F4S	l l b
8 o&swwAum	- J 2	1S221FS4	J21JF66	7- 21F22	J2h- FJ0	1SF20	l l b
5 EoOAum	1S- 1				1SJ		G
5 EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				JJ		G
pe&enAum	72 1	1F6J	2FSh	1F-1	1F67	21F74	l l b
pe&enAum	00 2	6hF41	hhF72	h- FSJ	h7F1S	11F14	l l b
pe&enAum	07 2	12FJJ	JFJh	11F14	11F-6	1- F40	l l b
pAAqon	27 1	1hJF2S	16hF17	16- F00	162F02	1FJ2	l l b
pAPer	1S0 1	JFJ7	1SF1h	1SF61	1SF24	- F2S	l l b
pAPer	1SJ 1	1SF21	1SFhS	JF7-	1SF17	- F-S	l l b
poOAum	2- 2	7h1Fh4	0h7Fh6	672F1-	064FS7	11F1S	l l b
p&on&Aum	76 1	17hF7-	177F04	17hF44	176F60	SFJ0	l l b
p&on&Aum	77 1	1J7F1J	1JhFS-	1J6Fh0	1J6F6S	SF7S	l l b
pulPur	- 4 1	220- FJ7	26J6F-4	264SF47	2h- 6FJ4	JFS4	l l b
i erbAum	1hJ 1				11-		G
i erbAum	1hJ 2				1S6		G
i EsPAum	2S- 1	SFh0	SFh2	SFh0	SFhh	4Fh4	l l b
i EsPAum	2Sh 1	SFh6	SFh7	SFh0	SFh0	2F1S	l l b
i An	117 1	JFJ-	1SFhh	1SF17	1SF22	- FS7	l l b
i A&snAum	40 1	hS4FSJ	h12F-S	h1- F-J	hSJFJ-	1FSS	l l b
UrsnAum	2- 7 1	4FSJ	4FS4	4F1S	4FS7	SF06	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	07F66	01F72	6hF46	01FJ7	JF10	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				11-		G
ZAnq	66 2	2S1JF7J	174hF20	1664FS-	174- FS6	JF6h	l l b
ZAqonAum	JS 1	2F76	2F0-	2F01	2F00	2F7-	l l b
ZAqonAum	J1 1	2F06	2F7h	2F06	2F0J	1F76	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 0-	t Ra&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsmea&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1h- : 2F27	1h- 67F12	1h- 2SFS:	1h- 6SF16	SF24	l l b
cn&mon%	121 1	- F- 7	- F- :	- F26	- F- 4	2F2S	l l b
crwenAq	0h 2	: 7F67	: 4F61	1SSF44	: 0F. 1	- FS6	l l b
BsrAum	1- h 1	44: FSh	4h2F. :	44: F47	4hSFh1	SF47	l l b
BsrAum	1- 0 1	4h4F60	4h0F7S	4h1F. 4	4h4F71	SF6h	l l b
Ber%BAum	: 1	2F2:	2F27	2F2h	2F20	SF71	l l b
BAumu&E	2S: 1				111		G
BAumu&E	2S: 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1- F67	1hF77	14F02	14F06	0F4h	l l b
RsOmAum	1S6 1	7F11	11F1:	1SFSS	: F06	1hF. 2	l l b
RsOmAum	111 1	16F41	16F- :	1hF. 6	16F2h	1Fhh	l l b
RsRqAum	4- 1	1h74SF0h	1h0- : Fhh	1h: : SF6S	1h7h6F. 0	SF7S	l l b
RsRqAum	44 1	16461Fh1	16- 1hF. 4	102- 7F1h	16601F70	2F. 0	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	24F- h	24F40	24F66	24F4:	SF62	l l b
RobsR&	h: 2	11F70	11F60	11F7-	11F0:	SF. S	l l b
RoI I er	6- 2	14hF47	146F2S	140FS2	146F2-	SFh-	l l b
t %wI rowAum	1h6 1						ql w
t %wI rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16h 1				112		G
y oFmAum	16h 2				1S6		G
DrOAum	11h 1				111		G
DrOAum	11h 2				1SS		G
Don	h4 2	4- S76F- 4	42: - 0F7:	4274- F76	42: h6FS-	SF27	l l b
Don	h6 2	42621F4-	42216F1-	42h- 7F21	424h7Fh:	SFhS	l l b
Don	h0 2	- : 676F- 0	42: 04F11	- : - 4- F0-	4S667FS0	4F. -	l l b
Kr%I &on	7- 1						ql w
LesO	2S6 1	706F- h	777FS:	777F04	774F- :	SF0:	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenA&psml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
LesO	2S0 1	744F60	701F46	760F-1	761F14	1F60	l l b
LesO	2S7 1	7h0F0h	77SF00	704F.1	701F14	1F-0	l l b
LA&EAum	6 1				1Sh		G
MsgnewAum	24 2	021hF7-	0116F27	0247F11	01: - F4S	SF.6	l l b
Msngsnewe	hh 2	1062F7:	1h07F.4	1027F11	167: F.7	hF07	l l b
MoP%bOenum	: 4 1	: F.S	: F61	: F.0	: F7-	1F.1	l l b
MoP%bOenum	: h 1	hF.0	6FS2	6FS-	6FS1	SFh2	l l b
MoP%bOenum	: 6 1	6F-2	6F6:	6F61	6Fh4	2F.6	l l b
MoP%bOenum	: 0 1	6F6:	6F26	6F17	6F-0	4F2:	l l b
MoP%bOenum	: 7 1	6FS4	6F2:	6F1h	6F16	2FS2	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	26F26	26FSh	26F11	26F14	SF41	l l b
8EowI Eoruw	- 1 2	1- 4- F20	14- 2F2S	1h47FS4	1441F10	0F12	l l b
8o&swwAum	- : 2	hhS1F17	h- 04FS4	h416F.0	h4- SF0-	1F1:	l l b
5EoOAum	1S- 1				1S:		G
5EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				11S		G
pqsnOAum	4h 2				: :		G
pe?enAum	72 1	1F17	SF76	1F1h	1FS0	16F47	l l b
pe?enAum	00 2	hSFS0	41F77	42F.S	44F.h	: F.-	l l b
pe?enAum	07 2	7F.2	0F76	0F40	7FS7	: F-4	l l b
pAAqon	27 1	1- hF66	1- 0F76	1- 7F47	1- 0F- -	1FS7	l l b
pA?er	1S0 1	hFS2	hF21	hF- -	hF1:	- FS-	l l b
pA?er	1S: 1	hF16	hF2h	hF11	hF10	1F-:	l l b
poOAum	2- 2	71- F1S	7S0FS1	71hFS0	711F0-	SFh2	l l b
p&on&Aum	76 1	101FS:	167F77	10- F-4	101F1S	1F-1	l l b
p&on&Aum	77 1	171F0:	17- F.S	172F0S	172F7S	SFh7	l l b
pu?ur	- 4 1	7SF.S	- : 1F2S	hhF-6	10hF72		l l b
i erbAum	1h: 1				112		G
i erbAum	1h: 2				1Sh		G
i EsPAum	2S- 1	SF4-	SF44	SF40	SF4h	4F.1	l l b
i EsPAum	2Sh 1	SF44	SF4-	SF42	SF4-	2F66	l l b
i An	117 1	6Fh1	6F7:	6FhS	6F6-	- F-0	l l b
i A&snAum	40 1	4S1F6-	41SF42	41SFh:	4S0Fhh	1F26	l l b
UrsnAum	2- 7 1	- F6S	- F6-	- F01	- F64	1F4:	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J22J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	02F:	0- F46	0- F- :	0- F27	SF- 4	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7: 1				116		G
Y&&Aum	7: 2				1S:		G
ZAnq	66 2	224- F00	22- 7F46	2262F2:	2247F17	SFh6	l l b
ZAqonAum	: S 1	2F04	2F6h	2F7:	2F06	4F- 1	l l b
ZAqonAum	: 1 1	2F00	2Fh7	2F7:	2F0h	hF6-	l l b

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Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t AR&n5:. sq&ar:J	1
t s&:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5&w
cRmA5Aum	20 2	M112MCy6	M1y66C46	MSSy4C12	M1S62C19	1C94	l l b
c5&mn5h	121 1	4y1C9y	MS1C69	MS1C16	4y9C24	1C11	l l b
crwe5Aq	0M2	M27CM6	M70Cy1	M7SCS9	M7SCM2	1C7M	l l b
BsrAum	17M1	2461C90	240yC9S	2M1yC40	2490CSM	1C1y	l l b
BsrAum	170 1	27ySCS7	2462C7y	2MS7C1S	24M1C94	2C74	l l b
BerhRAum	y 1	460CC1	460C19	469CSy	460C66	SC1S	l l b
BAumu&%	2Sy 1				y6		E
BAumu&%	2Sy 2				9y		E
BrnmA5e	91 1						ql w
3 sOmAum	1S9 1	49MCy9	4y6C40	4y0C69	4y7C79	1C7S	l l b
3 sOmAum	1S6 1	46yC9M	490Cy0	496C16	491C77	2CS0	l l b
3 sOmAum	111 1	40SCS9	4y1C97	490Cy	497C24	2C7y	l l b
3 sRqAum	47 1	27M217C62	244MS0Cy2	24M607C72	2410y9C2y	2C70	l l b
3 sRqAum	44 1	271999Cy2	24S020C16	27979yCS9	270SS1C02	1Cy7	l l b
3 srbn5	12 1						ql w
3 srbn5	12 2						ql w
3 %nrA5e	7M1						ql w
3 %nrA5e	7M2						ql w
3 %nmAum	M2 2	497C17	4y1C22	496Cy2	490CSy	SC97	l l b
3 nbsR&	My 2	496C7M	4ySC74	49yC17	499C61	SC42	l l b
3 nl l er	67 2	MSSSC90	MS6MC70	MS2MC1y	MS7SC40	SC6M	l l b
t hwl rnwAum	1M6 1						ql w
t hwl rnwAum	1M6 2						ql w
GrbAum	164 1						ql w
GrbAum	164 2						ql w
HsOnR5Aum	16S 1						ql w
HsOnR5Aum	16S 2						ql w
KnRmAum	16M1				1S4		E
KnRmAum	16M2				yM		E
D5OAum	11M1				y0		E
D5OAum	11M2				9M		E
Dn5	M4 2	1202270M0	171y1SCSM	129Sy7CS0	12yS0MCM6	1Cy7	l l b
Dn5	M6 2	12y279C14	17S74SCMM	12096MCS4	12y140Cy1	SCy6	l l b
Dn5	M0 2	12yy97C67	17SS12C9M	171606C07	17SMM0C04	SC04	l l b
krhl &a5	97 1						ql w
LesO	2S6 1	2462C79	24y6C2y	2MSyCy9	249yCMM	SCy9	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3n5Uel 1	3n5Uel 2	3n5Uel 7	cRvC3n5qC	3n5qUpt	F5&w
LesO	2S0 1	2479C1S	2490C6y	2462C40	2462C06	1CS1	I I b
LesO	2S9 1	24M5CSS	2497CS1	24y40My	240MC96	SCy7	I I b
LA&%Aum	6 1				99		E
g sv5ewAum	24 2	2M6000C60	2M0004Cy1	26S292C6S	2M9209C7y	SC0S	I I b
g s5vs5ewe	MM2	M19SC2S	M294CyS	M19yC64	M219C2M	1C11	I I b
g nPbOe5um	y4 1	400yC6y	4y06C26	4y70C69	49y0C99	2C17	I I b
g nPbOe5um	yM1	49MyC2S	4yy9C42	49y6Cy9	4y19C2S	1C46	I I b
g nPbOe5um	y6 1	409SC69	M5ySC7y	497SC66	4ySS0M9	7C7y	I I b
g nPbOe5um	y0 1	4096C74	M5000M2	49MM0C6	4yS60M4	7C1S	I I b
g nPbOe5um	y9 1	409S0M0	4y41CSM	4y72C6y	4994C00	1C9M	I I b
NenOhmAum	1M5 1						ql w
NenOhmAum	1M5 2						ql w
NAqfeP	6S 2	4y2Cyy	M57CM6	4yyC74	4y9C67	1CS0	I I b
8%nwl %nruw	71 2	yy64C49	1S140CSM	y9yyCMy	1SSS7C01	1C29	I I b
8n&swwAum	7y 2	12yM14C7S	17S2M5CSS	129297C19	12y74yC16	SC00	I I b
U%nOAum	1S7 1				y7		E
U%nOAum	1S7 2				96		E
pqs5OAum	4M1				y6		E
pqs5OAum	4M2				94		E
pere5Aum	92 1	4M9CMy	407C47	404C41	469C91	1C9y	I I b
pere5Aum	00 2	M67C19	M4yCy2	M7yCM4	MM5C99	2C1M	I I b
pere5Aum	09 2	M16C19	M24C4y	M2SC1S	M2SC26	SC9S	I I b
pAAqn5	29 1	M51C27	M12C0M	M10CM5	M1SC4y	1C64	I I b
pARer	1S0 1	466CSM	4yMCMM	407CS4	409C21	7C22	I I b
pARer	1Sy 1	407CS6	494C14	490C42	491CM4	1CM6	I I b
pnOAum	27 2	2Myy72C7M	26202SC19	2699120CM7	267921C6y	1C02	I I b
p&n5&Aum	96 1	12102CS2	1224MC67	12241C2y	1221yC6M	SC74	I I b
p&n5&Aum	99 1	11y4yCyy	1212yC42	12724CM7	12174C6M	1CM4	I I b
puRVr	74 1	90020My	y269C20	yMM2CS9	y1y0C6M	4C2y	I I b
i erbAum	1My 1				1S7		E
i erbAum	1My 2				y4		E
i %sRAum	2S7 1	M5MCy6	M12C01	M12CyS	M1SCM2	SC00	I I b
i %sRAum	2SM1	4y1CSS	M51CS1	M5SC21	4y0C4S	1C12	I I b
i A5	119 1	499C01	M52Cy1	49yCy0	4y7C96	1CMy	I I b
i A&5Aum	40 1	4940Cyy	4y1yC17	4y41C27	4yS2C09	SCyy	I I b
Frs5Aum	279 1	492CCM	49MCMM	4y0CM5	499C6S	1C6S	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:c qduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5A&w
- s5sOAum	M1 2	M21Cy0	M22C24	M10C47	M2SC3M	SC3M2	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	9y 1				y9		E
Y&&Aum	9y 2				96		E
ZA5q	66 2	4912C7M	4y11Cy4	4y12CSM	4909CC9	1C19	l l b
ZAqn5Aum	yS 1	40SC64	4y7C67	494C76	492C99	2C4S	l l b
ZAqn5Aum	y1 1	4MMC7M	40MCCS	466C61	46MC9y	2C1y	l l b

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Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
AlNu iniNu	2072	- GSS	1C06	2C42	2G M	2yC0	ppm
Antiu onh	12171	SC1y	SC1M	SC2-	SC1M	21C14	ppm
Aesbnic	0y72	SGS6	SGS4	SGSM	SGS6	- 6C4M	ppm
BaeiNu	1- y71	SGS:	SGS:	SGSS	SGS6	: 1G 1	ppm
BaeiNu	1- 071	SC1S	SGS0	SGS2	SGS6	62GS2	ppm
BbehlliNu	M71	SGS0	SGS6	SGS4	SGS6	24C04	ppm
Bisu Nt%	2SM71				1Sy		E
Bisu Nt%	2SM72				M		E
Beou inb	: 171						cps
3 adu iNu	1S: 71	7SGS6	SC2M	7SGS2	SGS0	204C06	ppm
3 adu iNu	1S671	7yC :	76GS1	72C6	74C0y		ppm
3 adu iNu	11171	SGSS	SGS1	SGS4	SGS2	1S: C -	ppm
3 alciNu	4- 71	0C0:	0C1 :	2C40	yC 1	ySC1S	ppm
3 alciNu	4471	yyG S	y- C 4	y- C0y	y4G S	1G6S	ppm
3 aemon	1271						cps
3 aemon	1272						cps
3 %oeinb	- y71						cps
3 %oeinb	- y72						cps
3 %eou iNu	y272	SGS6	SGS6	SGS:	SGS0	2SG64	ppm
3 omalt	yM72	SGS-	SGS2	SGS2	SGS2	24GSy	ppm
3 oppbe	6- 72	SC0M	SC y	SC0y	SC 6	1- C 1	ppm
DhspeosiNu	1y671						cps
DhspeosiNu	1y672						cps
5 emiNu	16471						cps
5 emiNu	16472						cps
GadoliniNu	16S71						cps
GadoliniNu	16S72						cps
Holu iNu	16y71				1Sy		E
Holu iNu	16y72				M		E
IndiNu	11y71				1S4		E
IndiNu	11y72				M-		E
Ieon	y472	: Gy0	0GS2	yG 2	6C0	2- G M	ppm
Ieon	y672	0C10	6C01	4C4y	6C1	2- C 1	ppm
Ieon	y072	1SGy:	6Gy2	6C0y	: GS2	20C -	ppm
Kehpton	: - 71						cps
Lbad	2S671	SC1M	SC1:	SC14	SC10	1yC2S	ppm

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Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
Lbad	2S071	SC1M	SC1:	SC1y	SC10	12G M	ppm
Lbad	2S: 71	SC2S	SC1:	SC14	SC10	10C4S	ppm
Lit%iNu	671				M4		E
g avnbsiNu	2472	21C0-	11C12	: CS6	1- C64	y2C6-	ppm
g anvanbsb	yy72	SC1M	SG 2	SC21	SC24	2: G -	ppm
g olhmdbnNu	M471	SC4M	SC4-	SC2M	SC4S	24Cy	ppm
g olhmdbnNu	My71	SG :	SC42	SC2M	SG 6	10C00	ppm
g olhmdbnNu	M671	SC46	SGy	SC26	SG 6	20Cy	ppm
g olhmdbnNu	M071	SC46	SG 0	SC24	SG 6	- SC0S	ppm
g olhmdbnNu	M 71	SC4y	SG 6	SC26	SG 6	26Cyy	ppm
8 bodhu iNu	1yS71						cps
8 bodhu iNu	1yS72						cps
8 ickbl	6S72	SCS0	SC1S	SCS0	SCS:	22G M	ppm
P%osp%oeNs	- 172	70MC4-	700Cy2	741C62	766C1M		ppm
PotassiNu	- M72	1S6C4-	6: C6-	y0C1-	00C4S	- - G -	ppm
U%odiNu	1S- 71				1S-		E
U%odiNu	1S- 72				M0		E
r candiNu	4y71				1S1		E
r candiNu	4y72				: :		E
r blbniNu	: 271	SCS-	7SG S	7SC16	7SC14		ppm
r blbniNu	0072	7SG :	7SG :	7SG :	7SG :		ppm
r blbniNu	0: 72	SC06	7SC1M	SC0M6	SCy1	121CSy	ppm
r ilicon	2: 71	SC2:	SC21	SC2S	SC2-	1MCS-	ppm
r ilRbe	1S071	SCS4	SCS4	SCS-	SCS4	1MC4:	ppm
r ilRbe	1SM71	SCS-	SCSy	SCS1	SCS-	y: C21	ppm
r odiNu	2- 72	2S0Cy2	1yyG -	1- 4C4-	16yC06	22C01	ppm
r teontiNu	: 671	SCy1	SC4S	SC14	SGy	y- CyM	ppm
r teontiNu	: : 71	SCy1	SGy	SC1:	SG 4	40C00	ppm
r NifNe	- 471	70- yC41	7- 1yC2M	72M6Cy4	744MCS:		ppm
TbemiNu	1yM71				1Sy		E
TbemiNu	1yM72				M6		E
T%alliNu	2S- 71	SC21	SC1:	SC16	SC1:	1- C04	ppm
T%alliNu	2Sy71	SC21	SC1:	SC10	SC1M	MG 1	ppm
Tin	11: 71	7SCS0	7SCS-	7SCS1	7SCS4		ppm
TitaniNu	4071	SC1-	SC12	SCSy	SC1S	42C22	ppm
F eaniNu	2- : 71	SCS2	SCS1	SCS1	SCS1	16G M	ppm

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LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
VanadiNu	y172	SGS2	SGS2	SGS1	SGS2	- : G 6	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	: M71				1S-		E
YtteiNu	: M72				M2		E
Zinc	6672	SG62	SGyS	SG 0	SGyS	2y0M2	ppm
ZieconiNu	MS71	SGS1	SGSS	SGSS	SGS1	M4 G2-	ppm
ZieconiNu	M171	SGS2	7SGS1	7SGS1	SGSS	166- 2G1 :	ppm

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P b ACAb	2072	1SS	1S6	1S2	1S-	-FS6	ql w
c C&b nC9	12171	S	N	10	N	1SSFS2	ql w
cpwr CAq	0y72	S	-	2	2	J1F6y	ql w
Bsp Ab	1-y71	42	42	yS	44	1SFN2	ql w
Bsp Ab	1-071	60	yN	yS	yN	14F2J	ql w
Br p9P Ab	J71	2J	2-	-1	2N	16F-J	ql w
BAb m&a	2SJ71	6-6N4yy	6-N6SS6	64261-1	6-J-y-1	SF46	ql w
BAb m&a	2SJ72	-112-1S	-11220S	-Sy611-	-SJ-y64	1FSy	ql w
Bpmb AOr	N171	4y4-	44J2	4-SJ	444N	2F06	ql w
. sOb Ab	1SN71	21	10	10	1N	1-F-S	ql w
. sOb Ab	1S671	42J2	-Ny1	4S26	4Sy6	yF4J	ql w
. sOb Ab	11171	41J	-0N	4S-	4SS	yF21	ql w
. sPqAb	4-71	246	2yy	26S	2y4	2F04	ql w
. sPqAb	4471	2N4NS	2N2-y	2N64N	2N4y4	SF0-	ql w
. spenC	1271	2-6-N21	2-y2J21	2-111J-	2-4264y	1F1J	ql w
. spenC	1272	2N60S	-S6y0	2J440	2JyJ1	-F-N	ql w
. hPpAOr	-y71	J6S-4	J2621	NJJ2N	J2N61	-F-S	ql w
. hPpAOr	-y72	0SS	00y	642	0S6	JF40	ql w
. hpmb Ab	y272	1S-S	1SJ0	12-S	111J	JF1S	ql w
. nesP&	yJ72	6-	40	4-	y1	2SFJ6	ql w
. nI l r p	6-72	yyS	410	4J-	4N0	1-F0y	ql w
t 9wl pnwAb	1y671	10	10	N	14	-4F60	ql w
t 9wl pnwAb	1y672	-	S	-	2	N6F6S	ql w
EpeAb	16471	yS	yS	60	y6	10F-2	ql w
EpeAb	16472	0	20	20	2S	y0F0-	ql w
GsOnFACAb	16S71	110	110	1SS	111	NF66	ql w
GsOnFACAb	16S72	12S	14-	120	1-S	JF2y	ql w
HnP Ab	16y71	JSN2S01	JS6Ny0N	NJ0J242	JS4-2J0	SF62	ql w
HnP Ab	16y72	-J60424	-JJJS66	-J0y164	-JNSyy2	SF41	ql w
DOCAb	11y71	666060S	661SNyJ	60S4-40	666SJyJ	SF01	ql w
DOCAb	11y72	J616--	Jy2-yS	J6-22-	JyJS6J	SF61	ql w
DpnC	y472	--J	4S6	-2N	-y0	11F00	ql w
DpnC	y672	202N	2NSS	2010	204N	1F6y	ql w
DpnC	y072	N-	122	1y6	12S	-SFS-	ql w
Kp9l &aC	N-71	26S	2S6	22y	2-S	11FN4	ql w
LrsO	2S671	6y6	yJ4	0S6	6y2	NFy4	ql w

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	y--	yJ4	y44	yy0	yFN4	ql w
LrsO	2SN71	2622	2y2N	26--	2yJy	2F24	ql w
LA&nAmb	671	26--460	2yNN00S	2yN6N6S	26S-S-2	1FS1	ql w
RsgOr wAmb	2472	yS	42	1--	0y	60FyJ	ql w
RsOgsOr wr	yy72	40	y-	-S	4-	20F0-	ql w
RnP9eOr Omb	J471	142	60	N-	J0	4SFyS	ql w
RnP9eOr Omb	Jy71	--	10	N	1J	6yF40	ql w
RnP9eOr Omb	J671	yN	yS	12y	0N	y2FNy	ql w
RnP9eOr Omb	J071	S	42	S	14	10-F21	ql w
RnP9eOr Omb	JN71	2y	--	60	42	y2FJ2	ql w
urnO9b Amb	1yS71	0	S	2S	J	114Fyy	ql w
urnO9b Amb	1yS72	S	0	S	2	10-F21	ql w
uAqkr P	6S72	yS	-0	y-	40	1NFNJ	ql w
8hnwl hnpmw	-172	-SN	2N-	160	2y-	2JFJ1	ql w
8n&swwAmb	-J72	1S2S4	1S2N0	1S2J6	1S262	SF4J	ql w
5hnOAmb	1S-71	66y660S	6644-1-	60-0-01	660J4y1	SF06	ql w
5hnOAmb	1S-72	-1-20y0	-114SN2	-SJ0104	-114601	SFy0	ql w
3qsCOAmb	4y71	4412S22	420N04N	4-0224N	4-y4--J	1Fy0	ql w
3qsCOAmb	4y72	14JyJ0	14JS6N	140J26	14NN6-	SFy0	ql w
3r P CAmb	N271	71S	-1	--	1N	1-4FJJ	ql w
3r P CAmb	0072	S	-	S	1	10-F21	ql w
3r P CAmb	0N72	10	12	14	14	10Fy6	ql w
3 A&nC	2N71	10N0S6	104y64	106S4J	10644S	1F1J	ql w
3 A r p	1S071	yN	yN	110	0N	4-F S	ql w
3 A r p	1SJ71	2y	yS	42	-J	-2F0-	ql w
3nOAmb	2-72	2SJ24	2S1y6	1JJN1	2S-y4	2F46	ql w
3&nC&Amb	N671	4yN	4SN	4N-	4yS	NF4J	ql w
3&nC&Amb	NN71	JN-	62y	0yN	0NJ	22FJ6	ql w
3mPmp	-471	-1401-	-1S4SN	-112N0	-121-6	SF0-	ql w
irpeAmb	1yJ71	J1N-6Sy	JS01N1N	J4y1621	J2-y6N1	2F11	ql w
irpeAmb	1yJ72	-N6J010	-J06S--	-J1241J	-J1J-JS	1F-0	ql w
ihsPAmb	2S-71	yS	yS	--	44	21F66	ql w
ihsPAmb	2Sy71	1yS	2SS	2SN	1N6	16FJy	ql w
iAC	11N71	1S60	110y	12SN	11yS	6F44	ql w
iA&sCAmb	4071	10y	2SN	142	10y	1JFSy	ql w
MpsCAmb	2-N71	2y	2y	N	1J	4JFyS	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sU A P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	y172	1-	10	2-	1N	2NF64	ql w
Y&&peAmb	10271	yS	42	N-	yN	-0FNS	ql w
Y&&peAmb	10272	2N	-J	44	-0	22FJ1	ql w
Y&&peAmb	10671	140y	1460	14SN	14yS	2Fy1	ql w
Y&&peAmb	10672	1S24-	1S2y4	J01y	1SS01	-FS6	ql w
Y&&pAmb	NJ71	122066J4	11JyS-y2	1216-206	121-S1S0	1F-0	ql w
Y&&pAmb	NJ72	12066J4	126Jyy-	12N1600	120yJ0y	SF4N	ql w
ZACq	6672	120	1-S	1--	1-S	2Fy0	ql w
ZAqnCAmb	JS71	40y	4--	4yS	4y-	4F6-	ql w
ZAqnCAmb	J171	1--	12y	--	J0	y0FS0	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	922	901	911	9- C	- F41	cps
Antimony	12171	960S	9S- 0	9162	9289	- F61	cps
Arsenic	0C72	1C6	1C4	126	14C	11FC4	cps
Barium	1- C71	1S- C4	9912	90- 0	1SSS1	- F18	cps
Barium	1- 071	10480	2SS4S	18- 96	18641	6F94	cps
Beryllium	971	1466	1C49	1C16	1C1S	2F0C	cps
Bismuth	2S971	6- C6669	6- C0C1S	6- 81218	6- 6C1- 2	SF22	cps
Bismuth	2S972	- S612C0	- 14- 868	- S8SS6S	- S9CS62	1F4S	cps
Bromine	8171	4C84	42C9	42- 4	4- C9	4F48	cps
. admium	1S871	1SS	1- 8	121	119	1CF0-	cps
. admium	1S671	- 0- 4	4426	- 8C9	4SS6	9F2S	cps
. admium	11171	14- -	1C6-	1C9-	1C- S	CFC8	cps
. alcium	4- 71	0S61	02- 8	0208	019-	1F61	cps
. alcium	4471	14S80C	14- - S4	1428S2	142- 20	SF9S	cps
. arbon	1271	2- 46S90	2- S9688	228904-	2- 1C106	1F2-	cps
. arbon	1272	29S46	29898	29- 88	29444	1F46	cps
. hlorine	- C71	98- 41	9- 6- C	9- - 42	9C1S6	2F9C	cps
. hlorine	- C72	010	6CS	08-	010	9F- S	cps
. hromium	C272	4S64	4241	4S00	4120	2F- 8	cps
. obalt	C972	204S	28S0	2680	204C	2F19	cps
. opper	6- 72	4061	4604	4604	40S-	1FS6	cps
Dysprosium	1C671	S	S	10	6	10- F21	cps
Dysprosium	1C672	S	-	1S	4	114F6S	cps
Erbium	16471	0C	2C	60	C6	48F22	cps
Erbium	16472	10	- S	20	24	28F- 8	cps
Gadolinium	16S71	110	0C	60	86	- 1F11	cps
Gadolinium	16S72	00	1SS	12-	1SS	2- F- -	cps
Holmium	16C71	9S2216C	896C622	9SS08- 9	8998C42	SF- -	cps
Holmium	16C72	- 92946C	4SS8C09	- 90CC89	- 901211	1FSS	cps
Indium	11C71	66206- 2	6C42226	6C91146	6C80SS2	SF6C	cps
Indium	11C72	96610-	96C9C4	969844	960- 2-	SF2-	cps
Iron	C472	- 928	- 0C1	- 92-	- 860	2F61	cps
Iron	C672	6C12S	64189	64220	64C12	SFB2	cps
Iron	C072	1CC6	1011	1602	1646	4F92	cps
Krypton	8- 71	2CS	2CC	2- S	24C	CF4S	cps
Lead	2S671	CSC0	C1- 4	CS18	CS0S	1F10	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	4C09	424S	4- 9C	44SC	- F8C	cps
Lead	2S871	2SS9C	2S404	196C6	2SS0C	2FS4	cps
Lithium	671	2C966SC	264C22C	2629011	262- 840	SF9C	cps
Ragnesium	2472	C60- 0	C0899	C09CS	C0C29	1F19	cps
Ranganese	CC72	81S	8S-	0S0	00-	0F48	cps
Rolybdenum	9471	99C4	1S146	1S496	1S198	2F0S	cps
Rolybdenum	9C71	12C98	120- 9	121- 9	12492	2FC1	cps
Rolybdenum	9671	1- 949	14224	1- 682	1- 9C2	1F94	cps
Rolybdenum	9071	0686	0469	00S2	0619	1F01	cps
Rolybdenum	9871	2S98-	19C22	2S2C0	2S2C4	- F61	cps
Neodymium	1CS71	1-	1-	2S	16	24F06	cps
Neodymium	1CS72	-	-	-	-	SFSS	cps
Nickel	6S72	8- 0	88S	89-	80S	- F41	cps
Phosphorus	- 172	20C	2- -	- 42	28-	19F29	cps
Potassium	- 972	4C94S	4CCC6	4- 906	4C1C8	2F- 1	cps
5hodium	1S- 71	66SC- 0C	66486S9	661- 044	6622C06	SF- C	cps
5hodium	1S- 72	- 186C4-	- 144484	- 1S9846	- 1469C8	1F22	cps
3candium	4C71	4- 8- 924	42- 118C	42C8C66	429122C	1F9S	cps
3candium	4C72	146- 88	149189	144149	146C0C	1F02	cps
3elenium	8271	C16	4- S	49C	48S	9F- C	cps
3elenium	0072	1S	2S	1-	14	- CF26	cps
3elenium	0872	C-	0-	C6	61	10F08	cps
3ilicon	2871	211182	211- 00	21SS69	21S806	SF- -	cps
3ilver	1S071	6- 4-	604-	6000	6621	- F64	cps
3ilver	1S971	C926	6- C2	6S- C	61S4	- F62	cps
3odium	2- 72	1222S2	1214C-	121- 20	121661	SF- 9	cps
3trontium	8671	18SS	10C8	1060	100C	1F24	cps
3trontium	8871	1- C- 2	1292-	12C2-	12992	- F91	cps
3ulfur	- 471	- 1- 0C1	- 1CC60	- 10- 44	- 1CCC4	SFC0	cps
Terbium	1C971	9160021	9- S0921	924606S	924S8S1	SF06	cps
Terbium	1C972	- 91- 9C2	- 944299	- 892- 4C	- 91686C	SF60	cps
Thallium	2S- 71	C46S	C1S1	CS- 4	C198	4F4S	cps
Thallium	2SC71	1289S	1- S6C	1- 2C0	1- S01	1F41	cps
Tin	11871	19048	1992-	2S- 24	19998	1F48	cps
Titanium	4071	- 0- 4	- C84	- 0S1	- 60-	2F1C	cps
Mranium	2- 871	10988	1929S	10902	18410	4F11	cps

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	C172	C614	C4C1	C- - 4	C460	2FC0	cps
Ytterbium	10271	60	0C	C8	60	12FCS	cps
Ytterbium	10272	22	6	28	19	62F4-	cps
Ytterbium	10671	1642	148-	122C	14CS	14FC1	cps
Ytterbium	10672	1S180	90S4	9- S-	90- 2	4FCC	cps
Yttrium	8971	118614C6	11891S44	1100- SS4	118418- C	SFC2	cps
Yttrium	8972	1288640	1206699	1280C1-	1284280	SFC1	cps
Zinc	6672	0- S	01S	08-	041	CF12	cps
Zirconium	9S71	06- 6	809C	0- 20	0919	9F00	cps
Zirconium	9171	10SS	1060	1942	18S-	6F92	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb A CAmb	2072	4-J2-	4-49-	4-0J2	4-JN9	SF-	ql w
c C&b nCy	12171	249944	2444N-	24J--6	246JNN	1F19	ql w
cpwr CAq	0J72	692S	6NN9	6N19	6N06	SF0J	ql w
BspAmb	1-J71	2666N4	20SJN9	2690-9	269SS4	SF06	ql w
BspAmb	1-071	4004J6	40904N	400S0-	40NS92	SF-S	ql w
Br pyPAmb	971	021-J	02S-S	02-N0	021N4	SF2J	ql w
BAmb m&a	2S971	JJ2NNJN	6-4S-N9	6200299	6S4NN49	0F46	ql w
BAmb m&a	2S972	-S11N61	294S9-9	291046-	29J60J4	1F66	ql w
Bpmb A Or	N171	4210	4192	4SN4	416J	1F0S	ql w
. sOb Amb	1SN71	J6SJ	JJ22	J-S9	J409	2F09	ql w
. sOb Amb	1S671	1S262	11--N	1S06-	1S0NN	4F99	ql w
. sOb Amb	11171	6-NSJ	6--S9	6J2SJ	641S0	1FJ-	ql w
. sPqAmb	4-71	N219-	N16J6	N19N-	N1944	SF-	ql w
. sPqAmb	4471	1--S49S	1-2-6S1	1-J-9NN	1--6S26	1F19	ql w
. spenC	1271	24949-S	2J64494	2J2J262	2J2N229	1F-N	ql w
. spenC	1272	-14S9	-12SS	-S92J	-110N	SF0N	ql w
. hPmpA Or	-J71	1-JS94	1-0SJ-	1-06NJ	1-661S	SF99	ql w
. hPmpA Or	-J72	11--	1142	NJN	1S4J	1JF44	ql w
. hpmb Amb	J272	064-S	0JN60	04416	0JJ01	1F-N	ql w
. nesR&	J972	1-6NN4	1--190	1-4002	1-49J1	1F-0	ql w
. nI I r p	6-72	11S-9-4	1S9JJS1	1SN0906	1S9JNS-	SF0-	ql w
t ywl pnwAmb	1J671	2J	10	10	19	24F0-	ql w
t ywl pnwAmb	1J672	10	-	1S	1S	66F0S	ql w
EpeAmb	16471	60	N-	--	61	41F60	ql w
EpeAmb	16472	0	20	-S	21	J9F00	ql w
GsOnFA CAmb	16S71	0J	110	42	0N	4NF-1	ql w
GsOnFA CAmb	16S72	110	12-	1S-	114	NF9S	ql w
HnP Amb	16J71	NS-SJ02	N624-2-	NNJ610-	NJS-6N9	JFS1	ql w
HnP Amb	16J72	-916J-J	-N6N1JN	-N-NSN6	-N0426S	1FS2	ql w
DDOAmb	11J71	JNS1JSJ	6421416	6-91J01	62S4N-1	JF6-	ql w
DDOAmb	11J72	9--246	91NN64	9SJ-26	919146	1FJ2	ql w
DpnC	J472	10JS1J	10014S	10419-	10J4JS	SFN0	ql w
DpnC	J672	--204JJ	--J-SJ9	--J-N16	--44000	SF4J	ql w
DpnC	J072	N149-	0N6SS	091J-	0904N	1F9-	ql w
Kpyl &aC	N-71	244	242	249	24J	1F-J	ql w
LrsO	2S671	116J004	11416NS	1161621	11J6-JN	1F11	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	999016	1S1S1JN	1SS-J0N	1SS44N4	SFJ-	ql w
LrsO	2SN71	4N0JS41	4N122S-	4NN41-6	4NJ0120	SFN1	ql w
LA&nAmb	671	2-JS24S	2J4J46S	2J-4422	24060S0	4F4-	ql w
RsgOr wAmb	2472	61N9N-	6144N4	6S04J2	61-64S	SF9J	ql w
RsOgsOr wr	JJ72	-N4J42	-00N66	-009NS	-NS129	1FS1	ql w
RnPyeOr Omb	9471	94J40S	9J206J	94420J	940JS-	SF49	ql w
RnPyeOr Omb	9J71	1-01-SS	141J01-	1421406	14S2N-S	1F96	ql w
RnPyeOr Omb	9671	1J-9-NS	1J49S4J	1JJ169S	1J460SJ	SF42	ql w
RnPyeOr Omb	9071	NJ09N-	NJ-124	NJ4262	NJJ12-	SF-S	ql w
RnPyeOr Omb	9N71	226NS-4	22460N0	2240--9	22J4SJ-	SFJ4	ql w
urnOyb Amb	1JS71	2S	2S	--	24	-1F49	ql w
urnOyb Amb	1JS72	0	-	-	4	4-F4S	ql w
uAqkr P	6S72	-NNS6	-0N40	-0904	-N2S9	1F-6	ql w
8hnwl hnpmw	-172	2-J9	2-N4	24J9	24SS	2F10	ql w
8n&swwAmb	-972	194209	1916S2	194S92	19--2J	SF00	ql w
5hnOAmb	1S-71	JNSN1JN	6J42166	644S-1S	626-J4J	6F-J	ql w
5hnOAmb	1S-72	-12NN-6	-S-S94-	294-2J4	-S-4-4J	-FS6	ql w
3qsCOAmb	4J71	-014-N4	41J-JN0	41-4121	4SSS690	6F2S	ql w
3qsCOAmb	4J72	1-9409	1-9126	1414N6	14SS-S	SF91	ql w
3rP CAmb	N271	JS0N	J22-	4N0N	JS6S	-F42	ql w
3rP CAmb	0072	19-	1-0	12-	1J1	24F6S	ql w
3rP CAmb	0N72	J-N	J6-	J9S	J64	4F61	ql w
3A AqnC	2N71	-1J4JSS	-S0J44S	-1-266S	-12SN60	1F-1	ql w
3A Orp	1S071	-4SJ21	-4-6-S	-44461	-42N01	SF61	ql w
3A Orp	1S971	-2J69J	-2S600	-19JJ-	-2190J	1FS2	ql w
3nOAmb	2-72	1149690	1129N20	1129169	11-62-1	1FS-	ql w
3&nC&Amb	N671	1N09-42	1N96N9J	1N0-140	1NN-12N	SF6J	ql w
3&nC&Amb	NN71	161SNN44	164J114N	1J9J499N	1610166-	1FJ0	ql w
3mPmp	-471	-4-J-0	--9699	-4S-S4	-411NS	SF6S	ql w
irpeAmb	1J971	N24NS90	912SJ22	9SS9116	N092J0N	JF4S	ql w
irpeAmb	1J972	-NJJ021	-NS0S--	-09JJJJ	-N194-6	SFN4	ql w
ihsPAmb	2S-71	2NS0N-	200-91	2006S9	20NJ94	SF6N	ql w
ihsPAmb	2SJ71	606-6-	64014-	66-92N	66240N	2F21	ql w
iAC	11N71	2S9JJ0	2S002N	2S64-1	2S09SJ	SF06	ql w
iA&sCAmb	4071	-0S-42	-022J6	-0-1S1	-019SS	SF-N	ql w
MpsCAmb	2-N71	9N6S21	90NS-4	9N4462	9N2N-9	SF4-	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sU A P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	J172	J62N0	J04N1	J6622	J6090	1FSN	ql w
Y&&peAmb	10271	60	0J	JN	60	12FJS	ql w
Y&&peAmb	10272	--	2N	2N	-S	1SFN1	ql w
Y&&peAmb	10671	2-J9	21JS	2J0J	2-61	9FSS	ql w
Y&&peAmb	10672	90N2	966J	94-0	962N	1FN2	ql w
Y&&pAmb	N971	1S16JJ02	110JSNN-	114J49NJ	1112-N1-	0FJN	ql w
Y&&pAmb	N972	126-J-1	1221600	119N4SN	1220N02	2F69	ql w
ZACq	6672	1-6J24	1-J0NS	1-4S92	1-J46J	SF92	ql w
ZAqnCAmb	9S71	429024	4-N46-	4--9N2	4-4SJ6	1FS1	ql w
ZAqnCAmb	9171	90S21	96J2J	90-1J	969J-	SF41	ql w

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S4	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	1S-4S5	1S165-	1S15-1	1S2190	1.S-	cpw
Antimony	12171	5J9J15	61614S	6S956S	6S5102	2.26	cpw
Arwenic	0572	16-92	15J61	15092	16S15	2.S5	cpw
Bsrium	1-571	644552	606JS1	66J992	66-44J	2.54	cpw
Bsrium	1-071	1154S15	12SS-11	11002-2	11001J6	1.90	cpw
BeryPium	971	160590	10---J	1012S5	10S01-	1.0S	cpw
Biwmuth	2S971	61-5229	54-2-S0	5949-99	5J-J909	6.24	cpw
Biwmuth	2S972	2J0J612	2J0S215	2941412	2J96046	1.-4	cpw
Bromine	J171	-J42	4SS1	4106	4SS6	4.16	cpw
Csdmium	1SJ71	1-265	1-10-	1-S9J	1-109	S.6-	cpw
Csdmium	1S671	2S0J-	21551	2S925	21SJ6	1.94	cpw
Csdmium	11171	15S44S	1509S-	15J16S	1555S1	2.J2	cpw
CsPium	4-71	19SJ-0	190204	1956JS	194590	1.02	cpw
CsPium	4471	-S5124-	-1-J26J	-211090	-1--069	2.56	cpw
Csrbon	1271	24J660-	24JS006	240056-	24J1601	S.19	cpw
Csrbon	1272	-1125	-1S5S	-S250	-SJ11	1.56	cpw
ChPrine	-571	129JJS	1-250J	1-1001	1-141S	1.S5	cpw
ChPrine	-572	1S10	JSJ	905	9--	11.J1	cpw
Chromium	5272	1JSS56	1040-4	102-56	105016	2.24	cpw
CobsPt	5972	-2J5-2	-2S946	-21-14	-2-590	1.-2	cpw
Copper	6-72	2J56S05	26966J9	20129-J	20552-4	-.1J	cpw
Dywprowium	15671	60	J-	1SJ	J6	24.-5	cpw
Dywprowium	15672	10	2-	4S	20	45.S0	cpw
Erbium	16471	05	60	5J	60	12.5S	cpw
Erbium	16472	20	10	--	26	-2.J1	cpw
GsdoPnium	16S71	125	1SS	J-	1S-	2S.4S	cpw
GsdoPnium	16S72	1J-	140	15-	161	12.12	cpw
HoPnium	16571	J0S94JS	064-24S	J4400J6	J266J-5	6.02	cpw
HoPnium	16572	-0J945S	-09052-	-J4-S-0	-J1SSS-	S.06	cpw
Indium	11571	61J5961	56S6199	6SJ0462	5959J04	5.21	cpw
Indium	11572	JJ6-51	JJ0210	JJSJ92	JJ4J2S	S.-9	cpw
Iron	5472	424014	416S64	416554	419111	1.16	cpw
Iron	5672	092-4J6	0JS01-2	0J24120	0J515J1	S.JS	cpw
Iron	5072	192545	1J941S	1J54-6	1J91-S	1.JJ	cpw
Krypton	J-71	241	2-6	2-0	2-J	1.S9	cpw
Lesd	2S671	-SJ12J9	-11J469	-1-J241	-112666	S.9-	cpw

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	25J4001	2022661	2019014	2605015	2.94	cpw
Lesd	2SJ71	11905250	12469-6J	12-J-6S2	12206S06	2.15	cpw
Lithium	671	245591S	215S4-9	2-5-91-	2-2SSJ0	6.0S	cpw
Msgnewium	2472	15SJ4J5	1499905	152-5S9	151S650	S.09	cpw
Msngsnewe	5572	9110-1	JJ659S	J91922	J9604J	1.4J	cpw
MoPybdenum	9471	2--1-1S	2-J96-1	2-6-426	2-61456	1.24	cpw
MoPybdenum	9571	--514SJ	-46-425	-45J0S5	-42451-	1.J5	cpw
MoPybdenum	9671	-64619S	-09JS-5	-009S4J	-041S91	2.21	cpw
MoPybdenum	9071	2S6SS2S	215221-	2S90-9-	21S-2SJ	2.2S	cpw
MoPybdenum	9J71	5---060	5425S05	54S494J	5-J09-S	S.J9	cpw
Neodymium	15S71	J0	--	9-	01	46.25	cpw
Neodymium	15S72	0	1S	1S	9	21.6-	cpw
NickePl	6S72	9SS09	JJ45-	9S150	J956-	1.S0	cpw
8howphoruw	-172	514-	499-	5-S9	514J	-.SJ	cpw
8otswwium	-972	45SSS0	4-514J	4-5S19	44SS5J	1.96	cpw
Rhodium	1S-71	6-S549S	55240J9	59J641J	59-JJ99	6.61	cpw
Rhodium	1S-72	29S-6JS	2J94J24	291J05S	29S5051	S.42	cpw
3csndium	4571	4S-50-0	-549659	-J4J011	-J11-69	6.4-	cpw
3csndium	4572	1-4041	1-56-0	1--15-	1-451S	S.94	cpw
3elPenium	J271	11909	12S0S	121-5	12S61	S.65	cpw
3elPenium	0072	-4-	--S	4SS	-5J	1S.-9	cpw
3elPenium	0J72	1216	1204	1212	12-4	2.J1	cpw
3iPcon	2J71	6J01211	011S-40	0S0J222	0S19926	1.J5	cpw
3iPer	1S071	J1J252	J2S-J2	J-5619	J24051	1.15	cpw
3iPer	1S971	06-S24	094J-S	099S-J	0J56-1	2.51	cpw
3odium	2-72	265S65S	26-5055	26S2-99	26296S2	S.94	cpw
3trontium	J671	4522S6-	40S5SS5	4614-11	461-09-	1.9J	cpw
3trontium	JJ71	-0096S6J	-95264S5	4S2055-5	-9199--6	-.24	cpw
3ulPur	-471	-6JJ52	-65J44	-654S1	-66699	S.51	cpw
Terbium	15971	J9156JS	09S956-	J-465S1	J-9S5J1	6.S1	cpw
Terbium	15972	-00J-2J	-049J42	-604600	-0-42J2	1.4-	cpw
ThsPum	2S-71	6J05S4	690-J9	69065J	6941J4	S.J-	cpw
ThsPum	2S571	16J0922	1005-0-	106SS4-	104111-	2.6J	cpw
Tin	11J71	409922	515962	51545S	5S-00J	4.1S	cpw
Titsnium	4071	J045SS	J95129	9SJ6S0	J92045	1.92	cpw
Ursnium	2-J71	2512J4-	2559522	25J444S	255226J	1.42	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1-6915	1-S69J	1-26-4	1--416	2.-J	cpw
Ytterbium	10271	J-	5S	J-	02	26.65	cpw
Ytterbium	10272	61	-9	J-	61	-6.-0	cpw
Ytterbium	10671	41J4	4SJ4	4406	424J	4.09	cpw
Ytterbium	10672	994J	9065	9926	9JJS	1.S1	cpw
Yttrium	J971	11190129	9J50S05	1SJ9JJ29	1S651S11	6.61	cpw
Yttrium	J972	11J-S54	1106141	110S491	1106562	S.5-	cpw
Zinc	6672	-21-JJ	-149S0	-14J-1	-10S42	1.19	cpw
Zirconium	9S71	1S-22J5	1S0195S	1S02094	1S59S1S	2.19	cpw
Zirconium	9171	2-S9J0	2-6509	24S469	2-6S12	2.S2	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
q8be c dbe	20 2	1a4716	1a7uS4	1a16u6	1a726a	SU02	dDI
q. Tde C. y	121 1	11uSu2S	11uS7S4	11u0476	11u2u-7	SU74	dDI
qII p. dd	0- 2	711S6	7S70-	7S162	7S-4u	1U62	dDI
BwIdbe	17- 1	17S2a4-	17S7144	17SS06u	17S22u6	SU1S	dDI
BwIdbe	170 1	27-10Su	27-716S	2726S1S	2747626	SU6-	dDI
Bply8dbe	a 1	72212u	72S4u1	72SS1a	72Su06	SU7-	dDI
Bdde bTh	2Sa 1	612S141	6Su64u-	620u0S6	6161000	1U60	dDI
Bdde bTh	2Sa 2	2u7Su01	2u6u0a-	7S02210	2a27a61	4U44	dDI
BIDe c p	u1 1	76a2	76Sa	7626	7642	1U21	dDI
Fwoe dbe	1Su 1	2407-	24-uS	2-7u6	24aSS	1U02	dDI
Fwoe dbe	1S6 1	76204	76010	7077-	7600-	1U4-	dDI
Fwoe dbe	111 1	2a--S0	2a6aa4	2au06S	2a0Su0	SU--	dDI
Fw8Idbe	47 1	76a0S4	702-a7	760-72	76aa47	SU6a	dDI
Fw8Idbe	44 1	-a776a-	6S6au24	-a10au-	-a07u7-	1U4S	dDI
FwIr C.	12 1	2416a7u	27-11a0	27uuuS2	27u-646	1U7u	dDI
FwIr C.	12 2	71S-S	7S1aS	7S624	7S621	1U4S	dDI
Fh8DIc p	7- 1	12-S-4	124a11	1240u4	124a16	SU11	dDI
Fh8DIc p	7- 2	uSS	11SS	a-u	a-7	1-U0-	dDI
FhIDe dbe	-2 2	776706	77u--0	772411	77-0u1	SUa7	dDI
FDr w8T	-a 2	61aS0S	617-u7	6S2aS6	611u-7	1U74	dDI
FDDDpI	67 2	-27u7-7	-1220uu	-Suu141	-14a06S	1U-7	dDI
&yI DIDI dbe	1-6 1	12-	1SS	1Su	111	11U46	dDI
&yI DIDI dbe	1-6 2	7S	77	77	72	-Ua0	dDI
EIr dbe	164 1	a2	60	0-	0u	16U70	dDI
EIr dbe	164 2	4S	7S	7S	77	10U72	dDI
GwoC8c dbe	16S 1	210	177	2Su	1u6	24U66	dDI
GwoC8c dbe	16S 2	120	140	10S	14u	14U60	dDI
HC8e dbe	16- 1	u4-0246	u6S6a41	u-0246-	u-4---1	SUa2	dDI
HC8e dbe	16- 2	76u1Sa6	704S7aS	7aa2u27	7uS400S	4U7-	dDI
t. odbe	11- 1	6Sa11-S	610SS-0	6164S0a	6141062	SU02	dDI
t. odbe	11- 2	u-2S64	u6-u01	a47S44	uu6aa7	-U-7	dDI
tIC.	-4 2	0a42a2	0aa6u0	0u0u71	0a7a70	SU0-	dDI
tIC.	-6 2	14u72404	14aaS0aa	14a2S4-6	14a14-06	SU-7	dDI
tIC.	-0 2	7671-a	7-uS4-	7-4-7-	7-u-uS	1U21	dDI
KIyDTC.	u7 1	246	226	20S	240	uUu-	dDI
Lpwo	2S6 1	6Sa7Suu	6S7-127	6106S01	61S1420	1U16	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pT:mwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Lpwo	2S0 1	- 2a0u64	- 21661a	- 717u00	- 20612S	S1aa	dDI
Lpwo	2Su 1	2477Sa41	24S426u-	2467027a	24776a- -	1U22	dDI
LdTbe	6 1	27471- 6	276S107	271046a	274S266	S1a2	dDI
5 wg. pI dbe	24 2	2u- 61a7	2u2a24-	2u107Sa	2u7424a	SU0S	dDI
5 w. gw. pI p	- - 2	10u- ua2	1u4uS21	10u- 6u1	1uS6- 71	1Uaa	dDI
5 C8yr op. be	a4 1	44264u-	4706- 20	440S174	44247u2	1US6	dDI
5 C8yr op. be	a- 1	644- u6a	67aa1a6	640264-	647a270	SUJu	dDI
5 C8yr op. be	a6 1	0S2u- 1S	0S- 6402	0Saa662	0S61- 4u	SUJ1	dDI
5 C8yr op. be	a0 1	4SS1au1	4S1S4a6	7aS6674	7a07S70	1U4-	dDI
5 C8yr op. be	au 1	1S2760uu	1S2S4Sua	1S242177	1S22060S	SU2S	dDI
mpCoye dbe	1- S 1	1S0	a7	1S0	1S2	0UJ7	dDI
mpCoye dbe	1- S 2	17	1S	0	1S	77U7S	dDI
mdkp8	6S 2	101a7u	160240	166- 17	16u- 66	1U0-	dDI
NhCI DhCIbI	71 2	a6u0	a- a-	a462	a- u1	1U1u	dDI
NCTwI I dbe	7a 2	u2S101	u2S22a	u221a1	u2Su64	SU14	dDI
9 hCodbe	1S7 1	- aS624u	6Sa26- -	6S10- 10	6SS- 404	1UJ6	dDI
9 hCodbe	1S7 2	20u0Sa4	2u61276	7S621- 1	2aS74a4	4UaS	dDI
3 dw. odbe	4- 1	7u47616	7a- aS27	7a0- 060	7a2617-	1Uu7	dDI
3 dw. odbe	4- 2	12aS67	171422	17a- 0S	1777- 2	4U17	dDI
3 p8p. dbe	u2 1	272S0	27712	27767	272a4	SU74	dDI
3 p8p. dbe	00 2	6uS	600	0S0	6uu	2U7a	dDI
3 p8p. dbe	0u 2	22a-	22u6	22- S	2200	1US-	dDI
3 8dC.	2u 1	177u4a04	171u67- 2	172u- 407	172u- 6SS	SU0-	dDI
3 8vpI	1S0 1	16Sa1a0	1610411	160S4u4	1672764	2US4	dDI
3 8vpI	1Sa 1	1- 0S0a7	1- 001S2	1- u417a	1- 00744	SU42	dDI
3 Codbe	27 2	4au47u7	4uuu44S	4ua1- aS	4a21401	1U11	dDI
3 TC. Tbe	u6 1	u044- uS	uu0- 1S2	u00Su4u	u0a6u47	SU0u	dDI
3 TC. Tbe	uu 1	0662a1a7	0- Sa270-	06a7S671	062104SS	1U2a	dDI
3 b8bI	74 1	41ua2S	416auS	4164u-	410462	SU71	dDI
ApIr dbe	1- a 1	u7au0a-	uu2S- S2	uua7- 4S	u0S420a	7US0	dDI
ApIr dbe	1- a 2	74aS- 7S	76S0a27	7uaSS64	7662u7a	- U61	dDI
Ahw8bbe	2S7 1	17- 62- 1	172u47u	17- 2a00	174- uua	1U17	dDI
Ahw8bbe	2S- 1	74S0167	77u64a1	7- 2- 7- 6	747a60S	2U1u	dDI
Ac	11u 1	aaSa- 0	au6ua1	a6a722	au27aS	1U10	dDI
AdTw. dbe	40 1	10711- -	1067- 42	10S7172	107261S	1U04	dDI
RIw. dbe	27u 1	4a017- 1	- S26024	- S4S1a7	- S120- 6	SU07	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuFqL3Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Vw. wodbe	-1 2	2-0066	2---S1	2-2-u-	2--2u4	1US2	dDI
YTpIr dbe	102 1	1Su	1Su	u7	1SS	14U47	dDI
YTpIr dbe	102 2	44	-6	-S	-S	11U11	dDI
YTpIr dbe	106 1	606S	02S2	0200	0SuS	7Ua-	dDI
YTpIr dbe	106 2	11-16	117-S	1222u	116au	7Uaa	dDI
YTTdbe	ua 1	1S62024S	1110a44u	111a2u1a	1Saaau76	2Ua7	dDI
YTTdbe	ua 2	1121276	116a-1a	17Su027	11aau26	uU11	dDI
Zc d	66 2	6S-Su7	-a0727	-a--71	-aa712	SUu-	dDI
ZdcdC. dbe	aS 1	212460a	217a24a	21-0214	214S7uS	SU06	dDI
ZdcdC. dbe	a1 1	44a270	4-6ua4	4-u4u7	4-4u01	1USa	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	- CS428	- 88- S-	- 801C6	- 88642	SF42	cps
Antimon9	12171	24S084C	24240- 4	24- C1- 0	242- CS0	SF6y	cps
Arsenic	0y72	616y6	622- 8	61662	618y2	SFy4	cps
Barium	1- y71	26- 886-	26C841-	26y- 428	266- y68	1F10	cps
Barium	1- 071	46yy046	4y00- 4S	46S- 4y8	4612181	SF80	cps
Ber9llium	C71	6S00- C	61y- C2	6S824S	61S4y0	SF0S	cps
Bismuth	2SC71	6SCC- 26	61406CC	61C0264	6148SC6	SF8S	cps
Bismuth	2SC72	2C2S- 21	2C16- 0C	2884- S8	2CS0SS-	SF68	cps
Bromine	8171	- 606	- 2- 4	- 410	- 442	6F4y	cps
. admium	1S871	40CS4	488Cy	48- 64	48- 88	1FS2	cps
. admium	1S671	60C- y	680- S	0SS08	68C14	1Fy0	cps
. admium	11171	y8Sy8y	y821y-	y04C6y	y0C2- 4	SF6y	cps
. alcium	4- 71	01- y- 8	028y40	024- 6-	02214C	1FS0	cps
. alcium	4471	1161y8Sy	11C1C- 8y	11CS808S	118146y0	1F46	cps
. arbon	1271	244S6yS	2418166	246C844	2442880	1FS6	cps
. arbon	1272	- 2461	- 2- 28	- 24Cy	- 2428	SF20	cps
. hlorine	- y71	12SC0C	1210- 4	12y1C0	1226- 0	1F8-	cps
. hlorine	- y72	88-	CSS	060	8yS	8Fyy	cps
. hromium	y272	6044S2	68S1y6	60y4S-	6066y4	SF4y	cps
. obalt	yC72	1210- 24	12- S146	12- 6C82	12281y1	SF81	cps
. opper	6- 72	1S2- C164	1S2y- 82C	1S2620S8	1S2y1CSS	SF12	cps
D9sprosium	1y671	1S8	18-	2- -	10y	- yFCy	cps
D9sprosium	1y672	C-	0-	60	08	10F84	cps
Erbium	16471	110	1S8	1yS	12y	10F64	cps
Erbium	16472	y0	20	yS	44	- yF44	cps
Gadolinium	16S71	22y	1C2	2y8	22y	14F82	cps
Gadolinium	16S72	1C-	100	22S	1C0	11F11	cps
Holmium	16y71	86C11C4	8048C- S	86- 2y01	86CS8C8	SF60	cps
Holmium	16y72	- 81612-	- 0- S10y	- 8- 426-	- 0C- y2S	1F40	cps
Indium	11y71	61- C444	6S601C2	6S8y004	6SC040S	SF62	cps
Indium	11y72	862222	86yS28	8yy112	86S080	SFyC	cps
Iron	y472	160S288	10S2y6y	101C246	16C0- 66	1F40	cps
Iron	y672	2C80S24C	2C6yyS60	- SS08- 10	2C860808	SF01	cps
Iron	y072	021yS-	02ySC8	0- 1yy6	026Sy2	SF0S	cps
Kr9pton	8- 71	226	2- S	2- 0	2- 1	2F48	cps
Lead	2S671	11C2- 614	12S4- 408	118- C- 0C	11C- y4CS	SF86	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	1S-S082-	1Sy-S-08	1S-11281	1S-8-161	1F2-	cps
Lead	2S871	401424C-	48-1y021	4080y406	400008C0	1F24	cps
Lithium	671	22y6S16	21C4-S2	2268810	22-C011	1F08	cps
Ragnesium	2472	y60262-	yy2-y6-	yy6y811	yy80--2	1F-0	cps
Ranganese	yy72	-y684C0	-6Cy04S	-6616C4	-641C00	1FB1	cps
Rol9bdenum	C471	86-1SC2	80y0CC-	88-Sy4S	80-C80y	1F16	cps
Rol9bdenum	Cy71	12016841	120-8S0y	1-SS0C4-	1282SCy-	1F20	cps
Rol9bdenum	C671	14SS6Syy	14S611-y	1414Sy6y	14S6C2y2	SF48	cps
Rol9bdenum	C071	0C4041-	0C6S2S1	08-y1S1	0C142-8	SFB0	cps
Rol9bdenum	C871	2S40Cy-8	2SCS48y0	2S416y4-	2S6SS-1-	1F2C	cps
Neod9mium	1yS71	2SS	18S	1y-	108	1-F10	cps
Neod9mium	1yS72	1-	1S	1-	12	1yF0-	cps
Nickel	6S72	--80y-	--8--C	--810-	--8422	SFSC	cps
Phosphorus	-172	1C802	1886-	1C002	1CyS2	2FBy	cps
Potassium	-C72	160-C1S	10486S2	101-22y	1011C12	2F18	cps
5hodium	1S-71	yCCS4y0	6S6y8-y	y81820-	yCy818C	2F1-	cps
5hodium	1S-72	20686CC	28S2-y0	28S0460	20C2841	SF0y	cps
3candium	4y71	-Cy6SCS	-8CC446	-8y0C-2	-CS448C	1F26	cps
3candium	4y72	12CS00	1-S1-0	12C0S-	12C6-C	SF41	cps
3elenium	8271	444-C	442C2	440-2	44488	SFyS	cps
3elenium	0072	1-00	1-CS	146-	141S	-F-1	cps
3elenium	0872	4yC0	448C	44y2	4y1-	1F60	cps
3ilicon	2871	2y8S2y4-	2y16C2y1	2ySSS-C0	2y-24S64	1F60	cps
3ilver	1S071	-22-2SC	-248122	-20-414	-24824C	SF00	cps
3ilver	1SC71	-Sy881S	-12ySyy	-S-C606	-S04y14	1F46	cps
3odium	2-72	CC2S64y	C0CySS0	1SS-8SC-	CC10C1y	1F2-	cps
3trontium	8671	16C8S2y8	101861C0	102-S-SC	101-22yy	SF08	cps
3trontium	8871	1yS6y8CC1	1y226C480	1y2y08-2S	1y18-yyCC	SF68	cps
3ulfur	-471	y2y8y8	y2-0-4	y2y6C2	y2ySCy	SF22	cps
Terbium	1yC71	80yCS6C	8Cy8810	88200-0	8848y41	1F1y	cps
Terbium	1yC72	-0C0818	-0S81S8	-066-C4	-0y044S	1F21	cps
Thallium	2S-71	28S-1C1	2CSy6-C	28120C0	284Sy42	1FCC	cps
Thallium	2Sy71	6020S18	6828210	66C61C1	60yS406	1FS2	cps
Tin	11871	1C84261	2S-y2y2	1CCCyy6	2SS6-y6	1F-S	cps
Titanium	4071	-418SSy	-428240	-4yyC-0	-4-4S6-	SFy0	cps
Mranium	2-871	C0S2160	1S2-18S2	1S10CS40	1SS-0602	2FC1	cps

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	y172	y1yS24	y1C168	y10yS6	y102- -	SF4S	cps
Ytterbium	10271	1yS	142	1y8	1yS	yFy6	cps
Ytterbium	10272	1SS	1SS	y6	8y	- SF12	cps
Ytterbium	10671	128CS	12- y6	1- 24S	1282C	- F40	cps
Ytterbium	10672	14S- y	141C0	14441	1422y	1F44	cps
Yttrium	8C71	11- - 414C	1S04- SC2	11S48842	11S42S28	2F68	cps
Yttrium	8C72	11yy- 2-	11y6- 0y	11y8SS6	11y6y68	SF12	cps
Zinc	6672	11C82- 6	12S- S24	11C4C8-	11C8048	SF- 4	cps
Zirconium	CS71	410S486	4S6S242	4- 1S8- 8	418Sy22	- FSS	cps
Zirconium	C171	8C00C6	8C- - y-	CS6186	8CC112	SF02	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	0J0145	0J1121	09-S16	0J0S94	S.06	cpw
Antimony	12171	4J-S461	51S4055	49614S4	496554S	2.06	cpw
Arwenic	0572	120S5-	125JS-	126J1S	126555	S.52	cpw
Bsrium	1-571	5-1S---	55--061	5456219	54--4-J	2.S9	cpw
Bsrium	1-071	94S4942	90J60-9	946J--9	955--4S	2.14	cpw
BeryPium	971	1216614	1255-2J	1216952	12296-1	1.J1	cpw
Biwmuth	2S971	61J9114	5526--0	6S49116	5921522	5.9S	cpw
Biwmuth	2S972	2JJ0541	29S9095	29625J2	291990-	1.-2	cpw
Bromine	J171	-S05	2J92	-142	-S-0	4.26	cpw
Csdmium	1SJ71	95449	909J4	90606	90S-6	1.4-	cpw
Csdmium	1S671	1--500	1-0962	1-694-	1-6161	1.69	cpw
Csdmium	11171	11512--	11JJ5J-	116606J	116JJ62	1.61	cpw
CsPium	4-71	15412-J	1611S29	152J069	156S-45	2.J4	cpw
CsPium	4471	2-424416	24S9-599	2-2J2661	2-6SS225	1.J4	cpw
Csrbon	1271	24-629J	249JS0S	259S654	25SJ-4S	-.1S	cpw
Csrbon	1272	-4691	----J	-6S11	-46JS	-.J5	cpw
ChPrine	-571	119909	122J6S	12-J00	1222-9	1.65	cpw
ChPrine	-572	1SSS	J42	1110	9J6	14.SS	cpw
Chromium	5272	14J440-	1445-5-	1440462	1459S96	1.51	cpw
CobsPt	5972	26-S1S4	2509524	2564-00	2591--5	1.--	cpw
Copper	6-72	2S5S9S1-	2S509106	2S59596S	2S561-J-	S.22	cpw
Dywprowium	15671	2J-	-42	460	-64	25.04	cpw
Dywprowium	15672	10-	210	15S	1JS	1J.09	cpw
Erbium	16471	2SJ	15S	242	2SS	2-.2S	cpw
Erbium	16472	50	60	40	50	10.65	cpw
GsdoPnium	16S71	292	-05	-SJ	-25	1-.50	cpw
GsdoPnium	16S72	250	20-	-4-	291	15.JS	cpw
HoPmium	16571	9169402	09292J1	JJ194SS	J6-9-J4	0.4S	cpw
HoPmium	16572	-091S5J	-904462	-96002S	-911SJS	2.66	cpw
Indium	11571	6161905	5405S29	6162001	59--25J	6.69	cpw
Indium	11572	J0S652	J694S6	J0-5S2	J011J0	S.24	cpw
Iron	5472	-4211-2	--6S0S-	--9251S	--91449	S.J9	cpw
Iron	5672	62S5159S	595-6164	6S15J-SJ	6S5J2S21	2.16	cpw
Iron	5072	1560665	1529449	1556040	15512J0	1.20	cpw
Krypton	J-71	222	244	2-1	2-2	4.59	cpw
Lesd	2S671	2461-6-S	24-54JJ5	245-426-	245SS926	S.54	cpw

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	21190-JJ	2S925J12	2152115S	212140J-	1.4S	cpw
Lesd	2SJ71	90J4J5-6	9019609S	9J-9S191	90J11J-9	S.61	cpw
Lithium	671	2140549	2S5--00	210-299	2124042	2.90	cpw
Msgnewium	2472	114S0-5S	11--6J24	112J2162	11-42112	S.55	cpw
Msngsnewe	5572	0-21461	0144926	0412162	0292J49	1.J6	cpw
MoPybdenum	9471	1JS6-194	1J52SJ02	1JS05J5J	1J219905	1.4-	cpw
MoPybdenum	9571	26S-9-29	260J9059	26091966	2654S-51	1.6-	cpw
MoPybdenum	9671	2J-9J64J	2921-200	29-11629	2J90451J	1.0-	cpw
MoPybdenum	9071	1622929J	166S1J-2	16-941J9	164SJ44S	1.14	cpw
MoPybdenum	9J71	41604596	42-62144	4--50241	4246466S	1.99	cpw
Neodymium	15S71	-20	2J0	-40	-2S	9.55	cpw
Neodymium	15S72	6S	4-	4-	49	19.69	cpw
NickePP	6S72	600291	60SS5J	60J42-	605250	S.60	cpw
8howphoruw	-172	-9-54	4S4J2	4S641	4S159	1.05	cpw
8otswwium	-972	-5210-9	-425655	-5J--54	-51S249	2.26	cpw
Rhodium	1S-71	6SJJ616	5444022	590J9S4	5J-0414	5.9S	cpw
Rhodium	1S-72	2JS925-	2J5J016	2J15151	2J200S6	S.96	cpw
3csndium	4571	-992J--	-6S-6-0	-0JJ054	-095S05	5.1-	cpw
3csndium	4572	1-4402	1-2145	1-5600	1-4S9J	1.-4	cpw
3ePenium	J271	J0J5S	J9J-5	J9S09	JJ921	1.1-	cpw
3ePenium	0072	26JS	2040	2040	2025	1.41	cpw
3ePenium	0J72	J921	J949	J94J	J9-9	S.1J	cpw
3iPcon	2J71	49290924	5S-2S-41	49121256	49509J4S	1.-1	cpw
3iPer	1S071	6-9--J0	65S94S4	6-00S0J	642662-	1.12	cpw
3iPer	1S971	5941J0J	626-6J5	6S5412S	6SJ6561	2.6J	cpw
3odium	2-72	19000194	19J9450S	1994J-24	19J0--62	S.44	cpw
3trontium	J671	-546JJ-9	-6S4-9-6	-5J51164	-50J09JS	S.J2	cpw
3trontium	JJ71	-1S14J-49	-1200SJS0	-1-04J099	-12222651	S.6S	cpw
3uPPur	-471	00S125	0J2626	069226	00-992	S.90	cpw
Terbium	15971	911-214	J2SSJ61	J050655	J69S500	5.29	cpw
Terbium	15972	-00S19S	-JSJ621	-JS1106	-09--29	S.54	cpw
ThsPPum	2S-71	50590S0	5J260-5	50-0J9J	50040JS	S.JS	cpw
ThsPPum	2S571	1-0J1600	1-00S-0-	1-54-165	1-69J4S5	S.9J	cpw
Tin	11J71	4S-0JJ9	4156112	4S609J0	4SJ0-29	1.5S	cpw
Titsnium	4071	6J0SJ-4	6999012	699J145	69562-1	1.S6	cpw
Ursnium	2-J71	2S560521	21-J-JS5	2S666J55	2SJ02020	2.1-	cpw

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpRe ID :	3S0	Inwtrumnet Nsme :	8J
CRent 3smpRe ID :	3S0	DiRtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiRe Nsme :	S1SCAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1S542J4	1S49516	1S6S625	1S54JS9	S.5-	cpw
Ytterbium	10271	225	160	1J-	192	15.6J	cpw
Ytterbium	10272	1S6	144	110	122	16.-9	cpw
Ytterbium	10671	25S5S	26S1S	25J59	256-9	2.S1	cpw
Ytterbium	10672	19426	19J1S	19142	19459	1.02	cpw
Yttrium	J971	114S90-9	1SSJ-015	111S-092	1SJ65049	6.-9	cpw
Yttrium	J972	11J6J02	119J552	11J4S42	11J9J22	S.65	cpw
Zinc	6672	251-S4S	25--J59	255S246	25-2-J2	S.04	cpw
Zirconium	9S71	J49SJ4-	JJ19S59	J4J5965	J59J622	2.22	cpw
Zirconium	9171	192192S	1909S-0	1904450	195J401	1.62	cpw

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Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
APminium	20 2	751S- 1-	7- - S91-	4S2- 416	7575510	1.5-	cpw
Antimony	121 1	2052	269S	4S26	7196	27.50	cpw
Arwenic	09 2	45	97	04	95	22.- 5	cpw
Bsrium	179 1	4157	77S5	7- 06	7052	11.- 1	cpw
Bsrium	170 1	0176	6076	6- S2	6- 51	7.11	cpw
BeryPium	5 1	254	2S1	252	262	2S.21	cpw
Biwmuth	2S5 1	9949666	4- 51027	9995265	9772215	0.16	cpw
Biwmuth	2S5 2	2072110	2015000	2047792	2071045	S.47	cpw
Bromine	- 1 1	9657	0S44	0576	6- 51	16.75	cpw
Csdmium	1S- 1	1S-	05	1SS	56	19.6-	cpw
Csdmium	1S6 1	74S1	7129	7942	7796	6.71	cpw
Csdmium	111 1	1SS2	- 04	5S1	529	0.2-	cpw
CsPium	47 1	6999944	6- 64624	60- 0- 64	6076S11	2.75	cpw
CsPium	44 1	1S- 900549	11145S1S6	11S411591	11S16SSS1	1.74	cpw
Csrbon	12 1	225267S	2767159	2474219	2767740	7.SS	cpw
Csrbon	12 2	74719	74- 09	79792	74- 40	1.45	cpw
ChPrine	79 1	172650	17- S0S	17- 4S-	176751	2.79	cpw
ChPrine	79 2	1110	1S9-	12- 7	1197	1S.17	cpw
Chromium	92 2	- 9S6	- - 25	- 947	- 626	2.S9	cpw
CobsPt	95 2	6119	6141	6S99	61S4	S.07	cpw
Copper	67 2	0719	0229	0252	020-	S.64	cpw
Dywprowium	196 1	1SSS	1S60	11SS	1S96	4.- 2	cpw
Dywprowium	196 2	450	9SS	450	45-	S.75	cpw
Erbium	164 1	229	2S-	19S	154	2S.26	cpw
Erbium	164 2	16S	50	60	1S-	44.21	cpw
GsdoPhium	16S 1	12- 7	1S9S	1210	11- 7	1S.16	cpw
GsdoPhium	16S 2	- - S	090	097	050	5.S6	cpw
HoPmium	169 1	- 9- 9S5S	04- 224S	- 0461- S	- 20110S	- .72	cpw
HoPmium	169 2	7- 92097	7- 42- 19	7- 2- - 9S	7- 41407	S.71	cpw
Indium	119 1	9- S- 415	9S59205	9- 00- 50	9957- 69	0.04	cpw
Indium	119 2	- 0674-	- 60509	- 6- 51-	- 01S- S	S.97	cpw
Iron	94 2	16149S95	1615S744	19- 17045	16S4501-	1.2-	cpw
Iron	96 2	2511- S- 91	2500S0062	2- 55S- 0S6	25257244S	1.47	cpw
Iron	90 2	046629S	0706205	045S059	0444441	S.- 1	cpw
Krypton	- 7 1	224	225	296	276	0.41	cpw
Lesd	2S6 1	12640	11691	179S4	126SS	0.76	cpw

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LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
Lesd	2S0 1	12415	5719	1S599	1S-56	14.29	cpw
Lesd	2S- 1	99-26	4929S	91---	9S5--	1S.4-	cpw
Lithium	6 1	2S6427-	1-16249	2S4424-	150451S	6.5-	cpw
Msgnewium	24 2	94544-0-	9429S5S9	94219150	9440S720	S.06	cpw
Msngsnewe	99 2	9701	9764	9444	9757	S.-2	cpw
MoPybdenum	54 1	-262	95S2	-9-0	09-7	15.77	cpw
MoPybdenum	59 1	1S541	-27-	5517	5650	14.S0	cpw
MoPybdenum	56 1	1260S	57S4	12477	11465	16.7-	cpw
MoPybdenum	50 1	6949	911S	6--9	61-S	19.29	cpw
MoPybdenum	5- 1	1-45-	11475	10290	19071	27.56	cpw
Neodymium	19S 1	2SS	2SS	2SS	2SS	S.SS	cpw
Neodymium	19S 2	6S	77	60	97	77.S-	cpw
NickePP	6S 2	79S0	7720	7294	7767	7.--	cpw
8howphoruw	71 2	109	29-	210	210	15.27	cpw
8otswwium	75 2	1072717-	10204192	1070-S65	1072912S	S.7S	cpw
Rhodium	1S7 1	990S7SS	4-5-995	9491746	97S6079	6.09	cpw
Rhodium	1S7 2	264S5-1	2675-S-	26---16	2696979	1.S9	cpw
3csndium	49 1	70-4706	772610S	700S-46	7620171	0.15	cpw
3csndium	49 2	174042	177066	177SS2	177-70	S.69	cpw
3ePenium	-2 1	979	420	422	462	17.00	cpw
3ePenium	00 2	1S	10	17	17	29.S1	cpw
3ePenium	0- 2	61	96	52	0S	20.55	cpw
3iPcon	2- 1	645621	054140	-79S61	0956S5	12.-7	cpw
3iPer	1S0 1	11S-	1209	11SS	1161	-.9S	cpw
3iPer	1S5 1	1109	1S9-	552	1S09	-.67	cpw
3odium	27 2	594-0729	5647-SSS	540117S4	59949947	S.51	cpw
3trontium	-6 1	11567	-9-0	1S167	1S27-	16.9S	cpw
3trontium	-- 1	-5917	99254	-2-06	09-54	27.51	cpw
3uPur	74 1	209611	201049	2010-S	207S49	S.-1	cpw
Terbium	195 1	--22442	0972SS5	-6S7-04	-715442	-.7S	cpw
Terbium	195 2	7022214	700416-	7-S265S	7066790	1.S-	cpw
ThsPium	2S7 1	1652	199S	16SS	1614	4.49	cpw
ThsPium	2S9 1	44-9	7995	4791	4172	12.11	cpw
Tin	11- 1	796S	7S10	74S1	7726	-.7-	cpw
Titsnium	40 1	2160	1229	27SS	1-5-	7S.-5	cpw
Ursnium	27- 1	4700	74S1	4495	4S05	14.44	cpw

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LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Msww	C831	C832	C837	C83Mesn	C83R3D	Unitw
Vsnsdium	91 2	7-0	770	4SS	704	-.52	cpw
Ytterbium	102 1	129	229	110	196	7-.06	cpw
Ytterbium	102 2	61	61	0-	60	14.44	cpw
Ytterbium	106 1	1777	1209	1960	1752	11.S5	cpw
Ytterbium	106 2	56S4	5-47	5957	56-S	1.46	cpw
Yttrium	-5 1	1S526S72	547-012	1S-0474S	1S417S2-	-.11	cpw
Yttrium	-5 2	11527S0	12S7-71	12S1S66	1155S6-	S.9S	cpw
Zinc	66 2	2-00	2000	2-7S	2-2-	1.00	cpw
Zirconium	5S 1	9S1S	4774	9026	9S27	17.-6	cpw
Zirconium	51 1	12SS	11SS	12SS	1160	4.59	cpw

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Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
LIpatlr &NlaBTasa	3-7S0	3FPlDer Flabolrlas	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacqlatOoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNabolrlas	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
dNer qFqer	20J2	214yy	2Sm y	2Syy4	21110	1U6S	O&P
dFiq .Fh	121J1	ymmy4m	1SSmy1S	yy64m1	yym11:	1US1	O&P
dDPlFqO	0 J2	2m24	2m4mm	2m4S:	2m 0y	SU44	O&P
BlDqer	1: J1	1SmS24	1Sy:S1	111140	1Sy4y1	1U4:	O&P
BlDqer	1:0J1	1yS00y	1yS1m2	1my:4y	1yS1S:	SUm	O&P
BlDmNqer	yJ1	1:6S62	1:61S2	1:m6:6	1:6y::	1USm	O&P
BqPr eiE	2SyJ1	6:2:S::	64y6S62	64664 2	642m 16	1U44	O&P
BqPr eiE	2SyJ2	:12mS0y	:1:0:m	:1m4 y	:1 S:S0	SUym	O&P
BDr qFl	m1J1	4110	:y y	4S10	4S:1	1Uyy	O&P
-lnr qer	1SmJ1	mm 2	mm2m	m011	m0yS	SU0m	O&P
-lnr qer	1S6J1	1 :y2	1 0:4	14mSS	1 :Sy	:USy	O&P
-lnr qer	111J1	124y04	12y022	120 1S	1204S2	1Um0	O&P
-lNqer	4:J1	2m mS	2y:12	2m Sm	2mmSS	1U	O&P
-lNqer	44J1	4my4y4	4y6:11	SS:1S	4y :02	1U1S	O&P
-lDp.F	12J1	26:S002	26 m1 2	2022y m	260S620	1U00	O&P
-lDp.F	12J2	:4:66	::464	:4 2	:411m	1U6m	O&P
-ENDqFl	: J1	1S2Sy2	ymm 0	1SS041	1SS 0	1U6:	O&P
-ENDqFl	: J2	0 m	0SS	660	0Sm	6U	O&P
-EDr qer	2J2	1 1:my	1 1SS1	1 SyS4	1 1Sym	SU10	O&P
-.plN	yJ2	20y2S1	20:624	206:1m	206:m1	1US1	O&P
-.&&lD	6:J2	21my S	2104y2	212 m2	216:42	1U4	O&P
ThP&DPqer	1 6J1	S	m	m	6	m6U6S	O&P
ThP&DPqer	1 6J2	:	0	S	:	1SSUS	O&P
GDpqer	164J1	42	1Sm	S	60	4U4y	O&P
GDpqer	164J2	2:	:0	20	2y	24US:	O&P
HIn.NqFqer	16SJ1	60	110	0	m6	:1U11	O&P
HIn.NqFqer	16SJ2	1:0	14S	1 0	144	0U42	O&P
K.NlqER	16 J1	m00 Sm	y1Sym 4	mm m S6	my144m2	1Uy	O&P
K.NlqER	16 J2	4S0 6:1	:y11y0:	4S00yS:	4S21m 6	2U0	O&P
3FnqER	11 J1	64 0S:6	60y:y06	66 mm	66:6622	2U6	O&P
3FnqER	11 J2	y6y606	y024 2	y0 60	y026S1	SU1	O&P
3DF	4J2	14Sy::	1:m61S	14S4 2	1:yyym	SUm	O&P
3DF	6J2	262 6:2	2 m 222	26226:y	2611164	SUm6	O&P
3DF	0J2	6:1S6	61my	6:22:	62041	1U10	O&P
gDh&i.F	m J1	2 2	2:0	216	2:	0U04	O&P
LIIn	2S6J1	1SS006	1S2:2 S	1S24:04	1S1m46:	SUy1	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacq lad CoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNabl r las	S1 3-7Uh

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9t T	RFqP
LlIn	2S0J1	m621 :	m ::4	m62:S6	m yy:1	SU46	O&P
LlIn	2SmJ1	424my62	4246mS1	42221 S	42:y:S	SU	O&P
LqEqer	6J1	2424066	2 1012:	241m224	24 ::01	2U2	O&P
5lkFlPqer	24J2	1: 0ym	1:4 6m	1: yS	1: 424	SU	O&P
5lFklFlPl	J2	0 S6y	0 :60	0 44m	0 2y	SU20	O&P
5.NlpnlFer	y4J1	4::	:0	4 m	422	1SU1:	O&P
5.NlpnlFer	y J1	:10	4SS	2m	:::	1mUS:	O&P
5.NlpnlFer	y6J1	40	6::	60	y4	10U0	O&P
5.NlpnlFer	y0J1	10	210	10	1my	12U0:	O&P
5.NlpnlFer	ymJ1	60	6SS	6Sy	y2	:U0:	O&P
bl.nhr qer	1 SJ1	1:	0	S	0	yyUym	O&P
bl.nhr qer	1 SJ2	S	S	S	S	SUSS	O&P
bqOvlN	6SJ2	m102:	0y66	mSSy4	mS4y4	1U	O&P
uE.P&E.DeP	:1J2	260	22	210	2:6	11U	O&P
u.ilPPqer	:yJ2	1 2 y:	1 S46:	14yy:2	1 Syy6	SUy:	O&P
9E.nqer	1S:J1	64 1	6006m 0	6 mm 44	66S m6	2U40	O&P
9E.nqer	1S:J2	:16m62S	:1m2S62	:1m20ym	:100m20	SU2	O&P
t O Fnqer	4 J1	41:414y	4:0m 21	42my1:4	426026m	2UyS	O&P
t O Fnqer	4 J2	1401	146226	1404yy	146y6S	SU4	O&P
t lNlFqer	m2J1	2SSmm	2S m	2S6	2S4:4	1U4m	O&P
t lNlFqer	00J2	610	64S	610	624	2U16	O&P
t lNlFqer	0mJ2	212y	2141	214m	214S	SU4	O&P
t qNlD F	2mJ1	1y2S0:	1mm2ym	1m66y6	1mySS22	1U46	O&P
t qNlD	1S0J1	:26m16	:::4SS	::S6y0	::S:S4	1USS	O&P
t qNlD	1SyJ1	:S0S01	:1602y	:1:4 y	:1242S	1U0	O&P
t .nqer	2:J2	4:40m	420y6S	4:S12S	4:Sy	SUm1	O&P
t iD Fiqer	m6J1	11Sm	060	m42	yS6	1yUm	O&P
t iD Fiqer	mmJ1	4yS1	4106	4110	4:ym	yUy:	O&P
t eNvD	:4J1	:S S2m	:S 622	:S01y2	:S y40	SU0	O&P
cl Dpqer	1 yJ1	mm446 4	y6: Sm	y41yyS0	y2yymm2	4Uy	O&P
cl Dpqer	1 yJ2	4S:0SS2	4S102S2	:y:6m02	:yy0S2	1U:	O&P
cEl NqEr	2S:J1	12 0m1y	120S::2	12:1y1	12 :: 6	1U6	O&P
cEl NqEr	2S J1	:Sy6m62	:12yy:1	:141 41	:12200m	SU04	O&P
cqF	11mJ1	1 m	1:::	1210	1:0m	1:U6S	O&P
cqlFqer	40J1	22	210	2SS	214	Uy	O&P
RDFqer	2:mJ1	242	1 m	142	1m1	2yU60	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
LIpatlr &NlaTasa	3-7S0	3FPlDer Fliablr las	um
-NqFiatlr &NlaTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacqlatOoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNablr las	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
7lFlnqer	1J2	111my6	111y26	11: Sy	112444	SUn2	O&P
YiilDqer	102J1	S	60	m	m	14U2y	O&P
YiilDqer	102J2	2m	10	:y	2m	:yUy	O&P
YiilDqer	106J1	1110	110	122	1102	4U6:	O&P
YiilDqer	106J2	yy6	11S20	1S21	1S4S2	U4	O&P
YiiDqer	myJ1	116ym01:	11yS4646	122:mS06	11y4014	2U2m	O&P
YiiDqer	myJ2	1:S04y	12m14Sm	12y662y	12y 100	1US1	O&P
ZqFO	66J2	20 4	226:	10y1	226y	SUy2	O&P
ZqD.Fqer	ySJ1	62	642	42	6S:	mUny	O&P
ZqD.Fqer	y1J1	2 S	2 m	2 S	2 :	1UyS	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LIpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
dNer qFqer	20:2	11S	1S1	s2	1S1	m104	O&P
dFiq .Fh	121:1	627	7s2	m7S	6ms	2SM1S	O&P
dDPlFqO	07:2	12	1S	7	s	4SN36	O&P
BlDqer	1 7:1	7S	m	07	6s	24N1m	O&P
BlDqer	1 0:1	s2	m	127	1SS	22N37	O&P
BlDnNqer	s:1	66	6s	74	6	12N0m	O&P
BqPr eiE	2Ss:1	670s072	64s6S62	64S01s	64s4 7	1M	O&P
BqPr eiE	2Ss:2	S0m4S6	Ss11SS	141742	1S 6m	1N3m	O&P
BDr qFl	m1:1	s10	s7s	4S 4	s0S	1M1s	O&P
-lnr qer	1Sm1	10	m	2s	2m	0N04	O&P
-lnr qer	1S6:1	s26	71	7s2	62	0N10	O&P
-lnr qer	111:1	41m	46	ms	m4	sM12	O&P
-lNqer	4 :1	2S0	242	2S4	21m	sM11	O&P
-lNqer	44:1	2177	1m12	212S	2S2s	SM7s	O&P
-lDp.F	12:1	22Ss 6S	217m101	216ss	210s174	1M2	O&P
-lDp.F	12:2	202s	26sSS	20 7s	201m4	SN11	O&P
-ENDqFl	7:1	m61 s	mSm42	mSmSs	m27s6	N01	O&P
-ENDqFl	7:2	660	67m	6	67	2N06	O&P
-EDr qer	72:2	1S0	1S4S	1S6	1S7s	1N02	O&P
-.plN	7s:2	s	70	1SS	m	2m3S	O&P
-.&&lD	6 :2	67	6SS	610	62	4Mm	O&P
ThP&DPqer	176:1	m	m	S	6	m6N0S	O&P
ThP&DPqer	176:2	1S	0	S	6	s1N04	O&P
UDpqer	164:1	7S	42	42	44	1SM12	O&P
UDpqer	164:2	0		20	2	17MS	O&P
Gln.NqFqer	16S:1	07	s2	s2	m6	11M1m	O&P
Gln.NqFqer	16S:2	1S0	12S	14S	122	1 N0	O&P
H.NqNqer	167:1	s1s2 72	sSm21S0	ms462 2	sS0 764	1M6	O&P
H.NqNqer	167:2	smmsS0	sms4S6	sm1m6s	sm6020	SM11	O&P
3Fnqer	117:1	6600 m	66 S4	6741226	6610210	1N37	O&P
3Fnqer	117:2	s6 20s	s777S0	s4m2 s	s77607	SN0s	O&P
3DF	74:2	461	42m	460	472	4N06	O&P
3DF	76:2	60	12	112	2SS	4N11	O&P
3DF	70:2	m	s4	1SS	s	sM16	O&P
KDh&i.F	m :1	17	24s	26s	200	12N27	O&P
LIln	2S6:1	1S	s10	ss7	sm2	6N37	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LlpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
LlIn	2S0:1	m2m	07S	0ms	0ms	4Ns4	O&P
LlIn	2Sm1	41SS	4S2	7s7	sS6	6Ns10	O&P
LqEqer	6:1	24 6472	244S420	2 s21 S	242 SS	1M11	O&P
9lgFlPqer	24:2	s2	1Sm	110	1S6	12N36	O&P
9lFglFlPl	77:2	4S	7S	70	4s	10M16	O&P
9.NpnlFer	s4:1	1s2	17m	110	176	24M16	O&P
9.NpnlFer	s7:1	m	m		42	s1N06	O&P
9.NpnlFer	s6:1	1	1	127	1 1	N0s	O&P
9.NpnlFer	s0:1	42	m	42	1	62Nds	O&P
9.NpnlFer	sm1	07	60	1SS	m1	21N7	O&P
bl.nhrqer	17S:1	2S	2S	0	16	4sM10	O&P
bl.nhrqer	17S:2	S	S	S	S	SN3S	O&P
bqOklN	6S:2	70	6S	4S	72	2SM72	O&P
uE.P&E.DeP	1:2	210	10	210	27S	2 N3s	O&P
u.ilPPqer	s:2	1S601	1S221	1S4S4	1S4 2	2M10	O&P
yE.nqer	1S :1	6s740S0	6771m74	6647747	6010 6m	M14	O&P
yE.nqer	1S :2	17202m	SmmSsS	S711s4	Ss0 0	1N06	O&P
tOlFnqer	47:1	4 mSmSs	4242S62	4 120m2	4 11mm4	1N61	O&P
tOlFnqer	47:2	147 1	14 S67	14 40s	14 s7m	SM14	O&P
tlNlFqer	m2:1	:4s	1s	:1m	:16	:21 M7	O&P
tlNlFqer	00:2		S	S	1	10 N21	O&P
tlNlFqer	0m2	16	22	2S	1s	17MS	O&P
tqNlD F	2m1	100s1s	104 6s	10SsS	104 s0	2N31	O&P
tqNlD	1S0:1	2	7S	10	SS	2SN3	O&P
tqNlD	1Ss:1	2m	160	SS	27S	2sN36	O&P
t.nqer	2 :2	24s22	2 s47	24201	24 0s	2N34	O&P
tiDFiqer	m6:1	727	707	4	711	14N36	O&P
tiDFiqer	mm1	14	m7S	m7S	1S47	2N27	O&P
teNeD	4:1	S4Ss	S20 0	S70 6	S41ms	SM4s	O&P
clDqer	17s:1	s147146	s m627	s122426	s210s42	1N7s	O&P
clDqer	17s:2	s 66sS	s16062	m00 Ss	s1S27	SN70	O&P
cElNqer	2S :1	642	460	742	77S	17Nd6	O&P
cElNqer	2S7:1	1 60	14SS	12s2	1 7	4M1S	O&P
cqF	11m1	1SSS	1S27	11	1S7	6N0	O&P
cqlFqer	40:1	1SS	17S	107	142	26Nd6	O&P
5DFqer	2 m1	07	10	m		1SmN0	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJber plDa	LB1264S0	C&lDi.Da	wlP8lN
LlpJlr &NJBTJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NqFiJlr &NJBTJaJ	3-BS07	TqNiqFJRlO.Da	1
TlilJAJcqlJdObedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
VlFlnqer	71:2	7S	1S	1	24	sSMS	O&P
YiilDqer	102:1	s2	7m	07	07	22M2	O&P
YiilDqer	102:2	2m	44	11	2m	6SM1	O&P
YiilDqer	106:1	12	1707	12Sm	1 s	17MS	O&P
YiilDqer	106:2	sm4	1S 01	1SSSs	1SS04	2M6m	O&P
YiiDqer	ms:1	12S70402	11s061Ss	11s4661s	11ss 4SS	SM4m	O&P
YiiDqer	ms:2	12mssS6	1264S 6	1276m42	120S261	1M0	O&P
ZqFO	66:2	14S	14	1s	17s	1mMS	O&P
ZqDO Fqer	sS:1	4s2	7m	4s2	722	1SM14	O&P
ZqDO Fqer	s1:1	7S	7m	m	64	20M16	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103-7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
ur p q qr p	20a2	J09S: 4:	Jbb: 22:	J922S62	Jb6: 944	1F0:	d&8
. iqp C. y	121a1	69b:	6994	646S	6b1J	4F49	d&8
t8D. qpl	0: a2	0:	bJ	06	0b	: F. 9	d&8
BPtqr p	1J: a1	16SS	1: : S	1642	1: 90	2Fb0	d&8
BPtqr p	1J0a1	26b4	26S9	2042	260b	2F. S	d&8
BDtyuqr p	9a1	419	44:	Jb9	410	6F04	d&8
Bq8p r ih	2S9a1	: 9: 14J2	: 9: S9S4	: 990120	: 9664b0	SF44	d&8
Bq8p r ih	2S9a2	29SJ9bS	296JS16	2b4: J: 9	29S411b	2FSJ	d&8
BtCp q D	b1a1	J: 26	J: b4	J910	J606	: F0:	d&8
- Pop qr p	1Sba1	1646	1: SS	1: Jb	1: 61	4Fb:	d&8
- Pop qr p	1S6a1	J: : 1	J692	JJ2:	J: 2J	: F2:	d&8
- Pop qr p	111a1	1SS0	122b	994	1S06	12F2S	d&8
- Pudqr p	4Ja1	1J06b06	141: SJ2	14J12: 1	14S002S	1F9b	d&8
- Pudqr p	44a1	224b6291	22611044	2204bSb:	2261: J0J	SF. b	d&8
- Ptl C.	12a1	11JS2: bS	1126bS04	1122JJ00	11264600	SFJ:	d&8
- Ptl C.	12a2	14Jb16	1421b4	14S19b	142S66	1F2b	d&8
- huCtq D	J: a1	6J: 1262	00SJ9: 6	9S99: 10	001b24:	10FbS	d&8
- huCtq D	J: a2	bb: 62	949: J	99140	94221	: F66	d&8
- htCp qr p	: 2a2	2919J	2b6J:	2902b	291b:	1Fb0	d&8
- Cl Pui	: 9a2	J104	J19S	J110	J16S	1F22	d&8
- C&&Dt	6Ja2	1: : 49	1: bS2	1: J: 2	1: : 60	1F4:	d&8
Ty8&tC8qr p	1: 6a1	S	b	60	2:	14: FJ1	d&8
Ty8&tC8qr p	1: 6a2	1J	J	1J	1S	: 0F0:	d&8
Etl qr p	164a1	: S	1Sb	1SS	b6	J6F64	d&8
Etl qr p	164a2	40	4S	J0	41	12FJ9	d&8
GPoOuqqr p	16Sa1	60	bJ	142	90	4SF. S	d&8
GPoOuqqr p	16Sa2	110	1JS	1: S	1J2	12F69	d&8
HOup qr p	16: a1	b6S0194	b0: 04b:	bb6: 02J	b04J460	1F4b	d&8
HOup qr p	16: a2	JbJ101J	Jb: 9: : S	J9b2620	Jb91290	2FS6	d&8
3 oqr p	11: a1	6140J: J	614: 4S1	610J299	61: : J: 1	SF2:	d&8
3 oqr p	11: a2	b9J916	b9J1b6	9S21: b	b9642S	SF. 6	d&8
3tC.	: 4a2	6: 66bb:	64S0bb1	6461: S0	640b0: b	1F2:	d&8
3tC.	: 6a2	110290: 42	11b246J14	110J9b2J6	110640J64	SF44	d&8
3tC.	: 0a2	JS: S4Jb	JSb: 4J:	JS0: Jb9	JS0S421	SF. 9	d&8
Kty&iC.	bJa1	262	2J1	216	2J0	9F90	d&8
LDPo	2S6a1	210bS	2JS21	24496	2JS99	: Fb9	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	109: 0	1bJbS	1bJbS	1b2J9	1FJ4	d&8
LDPo	2Sba1	b401:	b009:	9S: J6	b06b2	JFJ2	d&8
Lqihqrp	6a1	2JS4: bJ	2JS469b	2204691	22946: 0	SF0:	d&8
RPg. D8qrp	24a2	1S446: Sb	1S: 49692	1S: 10bJ0	1S: S4609	SF. S	d&8
RP. gP. D8D	: : a2	: 494	: 6J1	: 69:	: 6S0	1Fb2	d&8
RQyl oD. r p	94a1	20SS: 44	2bS: 6S4	2b229: 2	2006J60	2FJ9	d&8
RQyl oD. r p	9: a1	4b2S1SS	40: 6b6:	496J661	4b46b0:	2F19	d&8
RQyl oD. r p	96a1	: 10S09:	: 14b92:	: 296SS0	: 2S: 24J	1F. 2	d&8
RQyl oD. r p	90a1	296bJ94	29941J1	JSJ4SS1	299bb42	1F1S	d&8
RQyl oD. r p	9ba1	0006b09	0bS: 9S0	094bbbb	0b4Jb91	1F10	d&8
e DCoyp qrp	1: Sa1	40	: J	2S	4S	44FS9	d&8
e DCoyp qrp	1: Sa2	1S	0	10	11	4: Fb2	d&8
e qdkDu	6Sa2	41J4	4SS0	4220	412J	2F6b	d&8
mhC8&hCtr 8	J1a2	1960J2	1900Sb	196900	1901J9	SF26	d&8
mCiP88qrp	J9a2	601JJ6J	66Sb4: 2	60: b00J	669J: 29	1F1:	d&8
5 hCoqrp	1SJa1	6S20: b2	6S6S: 64	61: JJ6:	6SbS: SJ	1FS0	d&8
5 hCoqrp	1SJa2	2b6S449	29S9911	2bb4J4S	2bb49SS	SFb6	d&8
7 dP. oqrp	4: a1	J9: b406	4S24bJ2	4SS094b	J990Sb6	SFb6	d&8
7 dP. oqrp	4: a2	1J: 1bS	1J4422	1J: 6J4	1J: S0b	SF4:	d&8
7 DuD. qrp	b2a1	11	a	9	:	10: FS0	d&8
7 DuD. qrp	00a2	S	S	S	S	SFSS	d&8
7 DuD. qrp	0ba2	1S	b	1:	11	J2F0b	d&8
7 qqqdC.	2ba1	2bS: 2:	2069S0	200466	20b299	SF0S	d&8
7 qqvDt	1S0a1	2SS	210	260	22b	1: F2J	d&8
7 qqvDt	1S9a1	142	260	160	192	J4F. 1	d&8
7 Coqrp	2Ja2	19b06929	19662S64	1906b4bS	190691: b	SF. 4	d&8
7 itC. iqrp	b6a1	46: 9:	46J44	40941	4696S	1FbJ	d&8
7 itC. iqrp	bba1	4141S6	411S: 1	41Sb: 6	412SS4	SF44	d&8
7 r ufir t	J4a1	222: 1: 6	2249409	22622: J	224: 629	SFb4	d&8
cDtl qrp	1: 9a1	b494299	b9b0992	916J0: S	bbb2S14	JF91	d&8
cDtl qrp	1: 9a2	JbJ41: 1	Jb00126	Jb20: 20	Jb4626b	SF0S	d&8
chPuqrp	2SJa1	14Sb	142:	11: b	1JJ1	11F2J	d&8
chPuqrp	2S: a1	26: 9	J6S9	2b92	JS: J	16F22	d&8
cq	11ba1	24S9	2S60	2b92	24: 6	16Fbb	d&8
cqiP. qrp	40a1	1J0JS22	14J0J44	14J1SSb	141J092	2F. 1	d&8
MtP. qrp	2Jba1	62:	4bJ	: : S	: : J	12Fb2	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2Sv24	TPiPUqpDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	20J	10J	2S0	21b	2JFJb	d&8
YiiDtl qrp	102a1	2:	42	60	44	40F19	d&8
YiiDtl qrp	102a2	22	22	22	22	SFSS	d&8
YiiDtl qrp	106a1	1S92	1210	1242	11bJ	6F09	d&8
YiiDtl qrp	106a2	9J06	9626	949J	949b	1FJ2	d&8
Yiitqrp	b9a1	11Sb229:	1141: 199	11J9J0J6	11290S00	1F6:	d&8
Yiitqrp	b9a2	119bJJS	1212JS6	12S1S64	12SJ9SS	SF62	d&8
Zqd	66a2	2000	2b04	2660	200J	JF0J	d&8
ZqdC. qrp	9Sa1	: : b	40:	0Sb	: b1	2SFJ0	d&8
ZqdC. qrp	91a1	1: b	1JJ	1: b	1: S	9F62	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqqDse Pp Dsw	S1b3 7BFo

mPtPp DiDt	R P88	- m7 1	- m7 2	- m7 J	- m7 R DP.	- m7 5 7 T	M. qi8
ur p q qr p	20a2	Jbbb426	Jb696Jb	Jb0: 2S6	Jb000: 0	SF2:	d&8
. iqp C. y	121a1	9b4bS	1S20: 2	1S41bb	1S1bS0	2F92	d&8
t8D. qpl	0: a2	20S0	200:	204S	204S	1F24	d&8
BPtqr p	1J: a1	211b4	2JS12	22061	22J19	4F44	d&8
BPtqr p	1J0a1	J91bJ	412: :	J9JSb	J991:	2F91	d&8
BDtyuqr p	9a1	24b1b	2: J14	2: 624	2: 2: 2	1F61	d&8
Bq8p r ih	2S9a1	: 694J61	624S: 04	611: J: 2	6S1606J	4F06	d&8
Bq8p r ih	2S9a2	2914112	JSS6bJ4	2946b02	29: : 9J9	1F. 9	d&8
BtCp q D	b1a1	J: 92	J942	J092	J006	4F6:	d&8
- Pop qr p	1Sba1	2942	J110	JS92	JS: S	JF1S	d&8
- Pop qr p	1S6a1	: J1b	: 6: 1	: 64J	: : J0	JF4J	d&8
- Pop qr p	111a1	2J4Sb	24216	2420b	2J960	2FSJ	d&8
- Pudqr p	4Ja1	14201b4	14: : 2b9	1444J90	144229S	SF9b	d&8
- Pudqr p	44a1	22: 6b2: 2	2J1b0024	2J641bJ2	2J1J26SJ	2FJJ	d&8
- Ptl C.	12a1	111bJJbS	11622949	1166J0: b	1149SS29	2FJ2	d&8
- Ptl C.	12a2	14: 40:	14: 0b6	14: 1Jb	14: 466	SF22	d&8
- huCtq D	J: a1	1SJJ411J	12446S2J	1J94411S	1224141:	14Fb2	d&8
- huCtq D	J: a2	11b2S6	12: J91	129: J:	124J00	4F61	d&8
- htCp qr p	: 2a2	: 02S1	: 01bS	: 0bS6	: 0J96	SF62	d&8
- Cl Pui	: 9a2	: J296	: 4S22	: 29Sb	: J4S9	1FS6	d&8
- C&&Dt	6Ja2	: : 6J9	: : 404	: : 264	: : 4: 9	SFJ4	d&8
Ty8&tC8qr p	1: 6a1	2:	: S	b	2b	0: F. 1	d&8
Ty8&tC8qr p	1: 6a2	1J	10	2J	1b	2bF64	d&8
Etl qr p	164a1	92	2:	92	69	: : F4J	d&8
Etl qr p	164a2	J0	20	4J	J6	2JF. b	d&8
GPoCuqqr p	16Sa1	12:	110	bJ	1Sb	2SFJ:	d&8
GPoCuqqr p	16Sa2	12J	1S0	1S0	112	bF. b	d&8
HCup qr p	16: a1	b411122	91: : 2: 4	b66024:	b044: 4S	4FJ2	d&8
HCup qr p	16: a2	J964266	J9906S0	4SSJS0:	J9bbJ16	SF. J	d&8
3 oqr p	11: a1	: bS: 4J4	64: 94J4	61S2S: 0	6122JSb	: FJ:	d&8
3 oqr p	11: a2	9S6b12	9S9104	91: J9J	91S46S	SF49	d&8
3tC.	: 4a2	66S: 120	6619S: 4	60: : 66J	66: 994b	1F2:	d&8
3tC.	: 6a2	12S4440J9	1210S19: S	12J4101: b	121b: 4616	1F22	d&8
3tC.	: 0a2	JS662: 4	JSb: 2b9	J1SJ: 1S	JSb: S1b	SF6S	d&8
Kty&iC.	bJa1	222	2: :	260	24b	9FJ6	d&8
LDPo	2S6a1	12: JJS	1200bS	126949	1266b6	SF9b	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	1S: JJ1	1Sb014	1SbS2S	1S0J: :	1F66	d&8
LDPo	2Sba1	4b400:	: S1S06	: SJ640	496499	2FS6	d&8
Lqihqrp	6a1	221b121	2J1J49J	2249641	226S41b	2F1:	d&8
RPg. D8qrp	24a2	1S: bJ0S6	1S04J46S	1Sb2Sb: 1	1S016SS6	1F1J	d&8
RP. gP. D8D	: : a2	199S1	190bS	19J0J	196b:	1F4S	d&8
RQyl oD. r p	94a1	2066S90	292: b40	2bJb214	2b4JJb6	2Fb1	d&8
RQyl oD. r p	9: a1	4bS9b21	499SbS0	4b: bS: 6	4bb622b	1F92	d&8
RQyl oD. r p	96a1	: 211166	: JJ111J	: Jb99b:	: J1S0: :	1F02	d&8
RQyl oD. r p	90a1	2969: 62	JS0: 1S4	JS0b: 1J	JS41S6S	2FS4	d&8
RQyl oD. r p	9ba1	0bS2J99	0b: 22: 2	099: : 9S	0bbJ41J	1F20	d&8
e DCoyp qrp	1: Sa1	20	4S	2S	29	J: F2:	d&8
e DCoyp qrp	1: Sa2	J	1J	J	0	b6F6:	d&8
e qdkDu	6Sa2	10414	10061	10b21	10666	1F24	d&8
mhC8&hCtr 8	J1a2	2SS429	2SS491	19060S	199: JS	SFb1	d&8
mCiP88qrp	J9a2	0S1J2S9	66: bJ1b	696J1b0	6b0b2Jb	2F09	d&8
5 hCoqrp	1SJa1	: b24691	6224121	6S02J22	6S4SJ0b	JFJ4	d&8
5 hCoqrp	1SJa2	2b6J6b0	29: 1S9:	2b: 026J	2b9S6b2	1Fb1	d&8
7 dP. oqrp	4: a1	Jb9b4: S	410: 242	41449: :	4S02bb2	JF0J	d&8
7 dP. oqrp	4: a2	1J69JJ	1JbS91	1J9bJJ	1Jb2b6	1FS6	d&8
7 DuD. qrp	b2a1	10b1	1692	1604	1016	JFJ:	d&8
7 DuD. qrp	00a2	40	6J	6S	: 0	1: F. 6	d&8
7 DuD. qrp	0ba2	21S	19:	2S2	2S2	JF01	d&8
7 qqqlC.	2ba1	2b: JS0	2b266:	2bb6b1	2b: : : 1	1FS6	d&8
7 qqvDt	1S0a1	12S266	122: 1b	12SJ0J	121S: 2	1FS:	d&8
7 qqvDt	1S9a1	11JSJ1	116666	1169: 4	11: : : S	1Fb9	d&8
7 Coqrp	2Ja2	19060612	19bJ6642	2S1: : bS6	1992SS2S	1FS4	d&8
7 itC. iqrp	b6a1	4b619	4b011	490: 6	49S2b	1F29	d&8
7 itC. iqrp	bba1	4S9b22	42SS: 1	426291	41b021	1F99	d&8
7 r ufir t	J4a1	2JS6Jbb	22b06b0	22044S4	22b949J	SF0S	d&8
cDtl qrp	1: 9a1	b: J44b1	9J6S2: 1	9S09S10	b9912: S	4F60	d&8
cDtl qrp	1: 9a2	J0: JS: 4	Jb90: 6:	Jb99J01	Jb49990	2F1b	d&8
chPuqrp	2SJa1	110: S4	121S01	1211bb	119921	1F0:	d&8
chPuqrp	2S: a1	209100	2b: 4: 6	2bb1b2	2b4202	1F62	d&8
cq	11ba1	2J10	26SS	240:	2464	: F06	d&8
cqiP. qrp	40a1	14JS24J	14b16S4	1: 1S0bb	1404211	2F00	d&8
MtP. qrp	2Jba1	: bJ	: : S	6Sb	: b1	: FS4	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2JvtJ	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	21206	2S969	21b1J	21J: J	2FSS	d&8
YiiDtl qrp	102a1	: b	: S	JJ	40	26F96	d&8
YiiDtl qrp	102a2	2b	10	2b	24	26F64	d&8
YiiDtl qrp	106a1	1110	1192	1110	1142	JF09	d&8
YiiDtl qrp	106a2	9: 1:	969b	1S21:	9bS9	JF0S	d&8
Yiitqrp	b9a1	111116S4	11: bb: S2	11J0: : 4:	11J: b: : S	2F1S	d&8
Yiitqrp	b9a2	12S0: 2:	12: 4404	12Jb6b1	12JJ: 6S	1F94	d&8
Zqd	66a2	0019	0699	066:	0694	SFJ:	d&8
ZqdC. qrp	9Sa1	: 92	660	0JJ	664	1SF6b	d&8
ZqdC. qrp	91a1	1: S	92	1SS	114	20F0S	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S27	T&piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwR&p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
d8be qFdpe	20 2	2S620U2	2S2762U	2S741u6	2S4S2S2	SM0U	Ol l
dFiqe . Fh	121 1	2a441Su	2a6U20a	2a4a777	2aa2USa	SM46	Ol l
dIl pFqO	0a 2	604aa	607a4	6auu6	66uUu	1M71	Ol l
Bwldpe	17a 1	2u40Sa7	2U26171	2u7U026	2u0SU0S	1M60	Ol l
Bwldpe	170 1	4uuuS2a	4UU1172	4U74S6u	4U70042	1M8a	Ol l
Bplh8&pe	U 1	61S442	6107a0	62SUUa	61626a	SM10	Ol l
Bdqe biE	2SU 1	a40a7Sa	aU22212	auU62a0	a064aU2	4M7a	Ol l
Bdqe biE	2SU 2	2u4S10U	2uSSS22	20074a1	2uS4aa1	1M2S	Ol l
Bl. e qFp	u1 1	41a1	42u4	41U2	42SU	1M62	Ol l
3 wne dpe	1Su 1	a1777	a2711	a210u	a1U41	1M82	Ol l
3 wne dpe	1S6 1	0720U	07Uu2	02uSU	077a0	SM1S	Ol l
3 wne dpe	111 1	61U741	67Sa2u	62U06u	626a46	1M8S	Ol l
3 w&Qdpe	47 1	70a10S0	701uuS2	702S61u	707S706	SM4S	Ol l
3 w&Qdpe	44 1	aU2UUSUU	6S1SS474	aU411a70	aU6S76US	SM07	Ol l
3 wlr . F	12 1	24uu121	2a647U6	2aUa1a2	2a4U227	2M16	Ol l
3 wlr . F	12 2	7aSu4	7a706	7a21u	7a226	SM42	Ol l
3 E8 lqFp	7a 1	7401aU4	7204161	7S0S0US	72021u2	6M12	Ol l
3 E8 lqFp	7a 2	2Sa72	1uu7u	10076	1US7a	0M4S	Ol l
3 El. e dpe	a2 2	01u024	01a426	017S14	01a021	SM4S	Ol l
3 . r w8	aU 2	126S72U	12uu116	12a6aSa	126u710	1M76	Ol l
3 . t t pl	67 2	11SSa20S	11S12uUu	1S6ua0ua	1SUS171u	1M01	Ol l
Thl t l. l dpe	1a6 1	610	6aS	a0a	614	6M12	Ol l
Thl t l. l dpe	1a6 2	2u0	70S	720	72u	12M02	Ol l
Glr dpe	164 1	1au	22a	110	160	72M0U	Ol l
Glr dpe	164 2	67	4S	60	a0	2aM04	Ol l
Hwn. 8qFdpe	16S 1	660	0SS	660	60u	2M14	Ol l
Hwn. 8qFdpe	16S 2	40S	4S7	4a0	447	0M06	Ol l
K. &e dpe	16a 1	0U0U77S	US0S772	US6077S	u0Sa664	0M27	Ol l
K. &e dpe	16a 2	7u06a67	7u0S70a	7U11600	7uu62Sa	SM40	Ol l
&Fndpe	11a 1	aa66001	61u4717	624u014	aUUUU77	6M2u	Ol l
&Fndpe	11a 2	u0uS1a	u6uaSU	u0aSaU	u07u61	SM46	Ol l
&. F	a4 2	u1u7SU4	u70u20a	u744uUU	u7S2SuU	1M26	Ol l
&. F	a6 2	1a1272071	1a1066SSU	1a1u4SUu0	1a1617242	SM22	Ol l
&. F	a0 2	70u4020	7U1077a	7u27u6U	7u41U00	1M00	Ol l
glht i. F	u7 1	2a6	2aU	261	2aU	SM0	Ol l
Lpwn	2S6 1	1217S7a6	1217a444	12Sa06u6	121S0u2U	SM76	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	T 8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
Lpwn	2S0 1	1S66UuUU	1S640727	1S76u261	1Sa61u2u	1M4U	Ol l
Lpwn	2Su 1	4u4U2a70	4U1ua0S4	4u6uau10	4u0uuS1U	SM07	Ol l
LqiEdpe	6 1	2112USS	2227U12	222400u	21u01U6	2M04	Ol l
9 wkFpl dpe	24 2	2u2aSU60	20u71aa7	2u71a41U	2u172646	SM07	Ol l
9 wFkwFpl p	aa 2	7u26S77	7041a07	7uSSS44	70uU216	1M14	Ol l
9 . 8hr npFbe	U4 1	U64u26S	U611Uaa	UauaUSU	U61a70a	SM77	Ol l
9 . 8hr npFbe	Ua 1	170u126U	14116SUa	17Uu4S70	17U6S460	1M21	Ol l
9 . 8hr npFbe	U6 1	14U44422	1a76aS62	1aa6S6U6	1a2USS6S	2M36	Ol l
9 . 8hr npFbe	U0 1	u674SU1	u66aU20	uu12716	u0S4111	1M3U	Ol l
9 . 8hr npFbe	Uu 1	22S2S046	22a0u067	22076021	2244a41S	1M6u	Ol l
mp. nhe dpe	1aS 1	2a7	277	277	24S	4M1	Ol l
mp. nhe dpe	1aS 2	4S	aS	70	42	16M47	Ol l
mqOvp8	6S 2	746S6S	74a0uu	74212u	7446aU	SM04	Ol l
NE. l t E. Ibl	71 2	2S7a6	21S41	21S04	2Su24	1M1a	Ol l
N. iwl l dpe	7U 2	u0ua211	uUS2226	uU4Ua70	uu0uUU2	SM1a	Ol l
y E. ndpe	1S7 1	a47022a	6S622S0	6140a2U	auu272S	6M4U	Ol l
y E. ndpe	1S7 2	2006170	2001700	2001S20	2002u40	SM1S	Ol l
DOwFndpe	4a 1	7010uSU	42S774S	4SaU6Ua	7UU7614	6M2a	Ol l
DOwFndpe	4a 2	174722	176S01	176aSu	17a674	SM1a	Ol l
Dp8pFdpe	u2 1	4aUS1	40172	46uU2	46642	1M4S	Ol l
Dp8pFdpe	00 2	12uS	14aS	14SS	1700	6M7a	Ol l
Dp8pFdpe	0u 2	4u72	4664	4uu7	40U7	2M7U	Ol l
Dqq8Q F	2u 1	20a0uaSa	204uuS01	20a6UU46	20a4aaSu	SM1u	Ol l
Dq8pl	1S0 1	72u0407	77uUu20	77a06aU	7744Uu6	1M46	Ol l
Dq8pl	1SU 1	71a7u1U	7146SUS	71Uu114	7166SSu	SM1U	Ol l
D. ndpe	27 2	4U600406	4U264477	4U7a016u	4U477S26	SM44	Ol l
Dil. Fidpe	u6 1	1uu7200U	1u6u20Ua	1u6467u6	1u02S6a7	SM47	Ol l
Dil. Fidpe	uu 1	161S2aS66	161674124	1614u01UU	1617u217S	SM2S	Ol l
Db8Vbl	74 1	a416U4	a4U7aa	a4U242	a46064	SM1S	Ol l
cplr dpe	1aU 1	u774S62	U1S0u40	US72U24	uu24U4a	4M14	Ol l
cplr dpe	1aU 2	7u26U0U	76U7U2U	70u1721	706041S	1M7U	Ol l
cEw8Bpe	2S7 1	2uUU101	2U1U6U1	2uau742	2uU24S1	1M8u	Ol l
cEw8Bpe	2Sa 1	6u21664	6Ua441u	6UaS62a	6USuUS2	1M8U	Ol l
cqF	11u 1	2S0S4S1	211S164	211a07S	2SUu06a	1M1u	Ol l
cqwFdpe	40 1	76a6S46	70S7726	704aU61	70S1000	1M22	Ol l
5 lwFdpe	27u 1	1SS61007	1S4SU1u2	1S44u616	1S7S6a24	2M80	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	a1 2	aau667	aa77a4	aaU0u7	aa0266	SM62	Qt l
Yiiplr dpe	102 1	2SS	1U2	160	1u6	UM72	Qt l
Yiiplr dpe	102 2	0u	1S6	U4	U7	1aM1S	Qt l
Yiiplr dpe	106 1	176u7	14S41	14S2a	17U16	1M4a	Qt l
Yiiplr dpe	106 2	146u6	144U2	14u14	14664	1M11	Qt l
Yiildpe	uU 1	1S602u64	1174u211	110a6212	112aUSUa	4M16	Qt l
Yiildpe	uU 2	12112Sa	12SS27a	12S2ua1	12S4064	SM4u	Qt l
ZqFO	66 2	12067S0	120612a	12600S7	120770u	SM7U	Qt l
ZqlQ Fdpe	US 1	44624Uu	4402777	4407616	446U4u2	SM14	Qt l
ZqlQ Fdpe	U1 1	U06427	UU4SuU	1SS2u70	UU1116	1M76	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DPP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DPP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdPP u sb r :	S2S3 3 BFLb

8 sps b r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
qPmb c omb	2072	4J1	2S2	1yJ	2N4	6- LyN	dDw
q. Tdb C. h	12171	J2y	11SS	1242	1SNJ	14Ly0	dDw
qpwr . cd	0y72	12	y	0	N	4yLS0	dDw
Bspomb	1- y71	2yS	2yN	- SS	26J	JLJ4	dDw
Bspomb	1- 071	- - -	- 0y	y2y	411	24Ly-	dDw
Br phPPmb	J71	1S6	12S	114	11-	6LSN	dDw
Bcwb mTE	2SJ71	yJ1NN12	6y46- 11	6Ny4JS1	644SSSN	0L41	dDw
Bcwb mTE	2SJ72	2JJN26S	- SN20N2	- S461- J	- S42- J-	1LJ J	dDw
BpCb c r	N171	- 610	4S- 4	- JyJ	- N0S	yL04	dDw
3 sob omb	1SN71	42	2y	2J	- 2	20L1y	dDw
3 sob omb	1S671	- S60	- 026	4S- 4	- 6SJ	1- L6J	dDw
3 sob omb	11171	41J	4- S	yyS	466	1yLy2	dDw
3 sPdomb	4- 71	y44	y0y	yJ4	y01	4L42	dDw
3 sPdomb	4471	4y40y	44J42	4y2S0	4y2SN	SLyJ	dDw
3 speC.	1271	21- 0Jy0	21- J12N	21162Jy	21- 1120	SL6S	dDw
3 speC.	1272	26104	26S1y	26SJJ	26SJ6	SLJ S	dDw
3 EPOpc r	- y71	1y06Sy1	1ySS- N0	14y0Jy4	1y11464	- LJ6	dDw
3 EPOpc r	- y72	JJ2J	Jy62	J1Jy	Jy62	- L0N4	dDw
3 EpCb omb	y272	111S	11SS	1S1-	1S04	4LJy	dDw
3 CesPT	yJ72	10S	yS	6-	J4	6JL64	dDw
3 CDDr p	6- 72	244S	1y4S	1- 2-	106N	- - LyS	dDw
&hwDpOwomb	1y671	S	N	N	6	N6L6S	dDw
&hwDpOwomb	1y672	S	-	-	2	N6L6S	dDw
Fpeomb	16471	60	60	2y	y-	4yLyN	dDw
Fpeomb	16472	2-	4S	- S	- 1	26LJ0	dDw
GsoCPe omb	16S71	1SS	0y	N-	N6	14L0N	dDw
GsoCPe omb	16S72	1y-	14-	110	1- N	1- L06	dDw
HCPb omb	16y71	N- - N- y4	NJSSy0N	JN- N44J	JS2y0J4	NL4S	dDw
HCPb omb	16y72	- J61S- -	4S06- 0S	4S46042	4S2NS4N	1L4J	dDw
t. oomb	11y71	6SN44SN	6616NyJ	01N4214	662N4J4	NLJ S	dDw
t. oomb	11y72	JyS- 0-	J0S- N1	J4N- 6y	Jy6- 0-	1L20	dDw
tpC.	y472	1211	6J4	0y6	NN0	- 1L0N-	dDw
tpC.	y672	1N- J0	660y	62JN	1S4y0	6yL0J	dDw
tpC.	y072	460	20N	- 11	- y2	2NL6y	dDw
KphDTC.	N- 71	21J	24y	244	2- 6	6L2N	dDw
Lr so	2S671	20Jy	2460	21yS	2401	1- LSy	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlu

8 sp sb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Lr so	2S071	1JS6	21- 4	2SSS	2S1-	yl6J	dDw
Lr so	2SN71	J- 6-	J1J6	J1y0	J2- J	1U1N	dDw
LdEomb	671	21JyNN0	2- 0- - 2J	2446NNy	2- - N0S1	ylyl2	dDw
5 sg. r womb	2472	- N1S	y0y	60y	16N0	1SJUS6	dDw
5 s. gs. r wr	yy72	- 1S	120	1y-	1J0	ySUJ6	dDw
5 OPheor . mb	J471	10SS	14SS	1- SN	140S	1- UJ4	dDw
5 OPheor . mb	Jy71	2- 10	21- 4	2106	22SJ	4UJy	dDw
5 OPheor . mb	J671	2060	2110	2- J2	242y	1- U46	dDw
5 OPheor . mb	J071	14N4	11- -	1- yS	1- 22	1- UJ6	dDw
5 OPheor . mb	JN71	- 460	- 1S1	416N	- y0J	1yU16	dDw
ur Cohb omb	1yS71	1-	0	1-	11	- 4U61	dDw
ur Cohb omb	1yS72	S	-	S	1	10- U21	dDw
udkr P	6S72	0S	0-	0-	02	2U66	dDw
8 EOwDEOpmw	- 172	10y	22y	1J2	1J0	12UJ1	dDw
8 CTswwomb	- J72	144J1	1- - 0-	1- 4y0	1- 004	4lyl2	dDw
9 EOomb	1S- 71	612yN00	6yJS- 40	016- 142	66264yy	0UN4	dDw
9 EOomb	1S- 72	- 1S660N	- 2206y0	- 142- - 1	- 1yNNNJ	1UJ0	dDw
l ds. oomb	4y71	- N- J00S	4260yS0	4y2y422	421SJSS	NU22	dDw
l ds. oomb	4y72	1- JJ4N	14S0Sy	14S610	14S42-	SUJS	dDw
l r P. omb	N271	61	72S	yy	- 2	14SUJ-	dDw
l r P. omb	0072	S	S	S	S	SUSS	dDw
l r P. omb	0N72	11	J	1y	12	26U1J	dDw
l dC.	2N71	1NN62S	1N2140	1N21N1	1N4- 16	2USS2	dDw
l dPr p	1S071	210	2SS	2N-	2- -	1NUJ1	dDw
l dPr p	1SJ71	1N-	1J2	210	1J0	NU0J	dDw
l Oomb	2- 72	400- -	4SJ0y	4S- yS	4- S1J	Jlyl2	dDw
l TpC. Tomb	N671	2210	1yyJ	100y	1NyS	1NU14	dDw
l TpC. Tomb	NN71	11460	1S4N4	12460	1140-	NU64	dDw
l mPmp	- 471	- S24y2	- S1- S4	- S44- 0	- S20- 1	Slyl2	dDw
Ar peomb	1yJ71	N- yJ2Ny	J- 4S124	1SSy60J2	J2y2S60	JU21	dDw
Ar peomb	1yJ72	- N1J- y1	- N6N1- S	- N60- 6-	- Ny161y	SU0-	dDw
AEs Pomb	2S- 71	1y10	1- yN	1- N-	142S	6USS	dDw
AEs Pomb	2Sy71	- - y1	- 4y1	- - 60	- - JS	1lyN	dDw
Ac	11N71	12SN	11N-	14J2	12Jy	1- U2-	dDw
AdS. omb	4071	4yN	yyS	460	4J2	1SUJ1	dDw
Rps. omb	2- N71	0N-	0- -	00y	064	- lyl1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlb

8spsb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Vs. soomb	y172	yS	4-	1-	- 6	y4UJ4	dDw
YTTr peomb	10271	10	- -	42	- 1	41U66	dDw
YTTr peomb	10272	44	yS	2N	41	2NUJ N	dDw
YTTr peomb	10671	1- SS	11yS	1- 60	1202	NU02	dDw
YTTr peomb	10672	JJ1y	JN01	1S- y4	1SS40	2U66	dDw
YTTpomb	NJ71	1SJJ4N0J	11N26NNy	1- SS- 126	11J416- S	NU4y	dDw
YTTpomb	NJ72	12y1y20	12012Sy	12yy6N2	12yJ401	SUN2	dDw
Zc d	6672	260	10-	14-	1J4	- - USN	dDw
ZqpdC. omb	JS71	02y	60y	1S2y	NSN	2- U42	dDw
ZqpdC. omb	J171	142	1SN	2SN	1y-	- - UJ -	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Aluminium	2572	94-	991	264	913	14.25	cps
Antimony	12171	3- 2	623	43P	336	16.59	cps
Arsenic	5372	3	-	8	5	28.9-	cps
Barium	19371	2P8	215	223	215	9.83	cps
Barium	19571	415	489	999	411	18.28	cps
Beryllium	- 71	12-	- -	83	1P4	21.48	cps
Bismuth	2P- 71	6215331	69993P-	632358-	6938- 3P	2.43	cps
Bismuth	2P- 72	2- P396P	9P92593	9P38513	2- - 8- 95	2.54	cps
Bromine	8171	9526	9- 94	4PP-	98- P	9.58	cps
Cadmium	1P871	15	15	19	13	13.56	cps
Cadmium	1P671	94- 2	9626	9456	9391	2.99	cps
Cadmium	11171	4P8	456	414	499	8.65	cps
Calcium	4971	66-	69P	316	6P3	19.1P	cps
Calcium	4471	44668	449P4	4254P	49- P4	2.99	cps
Carbon	1271	2144- 32	2P- 6535	2P84388	21P8566	1.31	cps
Carbon	1272	26641	23548	2614-	2615-	1.51	cps
Chlorine	9371	- 5P526	- 45328	- 13P89	- 44446	2.- 6	cps
Chlorine	9372	6325	636P	6255	6434	2.4P	cps
Chromium	3272	1195	119P	1149	1195	P.3-	cps
Cobalt	3- 72	- 9	- P	- 5	- 9	9.35	cps
Copper	6972	1435	1945	141P	14P3	9.- 9	cps
Dysprosium	13671	P	8	8	6	86.6P	cps
Dysprosium	13672	9	5	9	4	49.4P	cps
Erbium	16471	38	42	23	42	4P.PP	cps
Erbium	16472	29	1P	29	1-	4P.53	cps
Gadolinium	16P71	38	38	42	39	18.29	cps
Gadolinium	16P72	115	115	1PP	111	8.66	cps
Holmium	16371	- P3961-	88P9936	- 1- 9- 8P	- P16- 83	2.1-	cps
Holmium	16372	96565PP	9- 5829P	9- 86- 9P	988P62P	4.33	cps
Indium	11371	648338-	6448PP3	6596495	6336655	2.9-	cps
Indium	11372	888835	- 99954	- 31231	- 244- 4	9.48	cps
Iron	3472	- 61	1P89	658	- P5	22.- 9	cps
Iron	3672	19114	143P3	19634	19538	3.1P	cps
Iron	3572	944	4PP	9P6	93P	19.36	cps
Krypton	8971	224	225	236	296	5.34	cps
Lead	2P671	213P	2PP6	153P	1- 6-	1P.2-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9-BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Lead	2P571	2P36	15-3	1352	18P8	19.9-	cps
Lead	2P871	86P1	5-62	6-35	584P	1P.38	cps
Lithium	671	2912511	299285-	29-4614	2946594	1.82	cps
Magnesium	2472	1394	1489	- - 2	1996	22.4P	cps
Manganese	3372	1-P	18P	14P	15P	13.36	cps
Molybdenum	-471	1942	1P38	838	1P86	22.96	cps
Molybdenum	-371	183-	1323	1P-2	14-2	23.55	cps
Molybdenum	-671	1515	1653	11-2	1328	1-.1P	cps
Molybdenum	-571	1115	8-2	853	-61	14.P4	cps
Molybdenum	-871	293-	2P65	2P23	213P	8.43	cps
Neodymium	13P71	P	5	5	4	86.6P	cps
Neodymium	13P72	P	P	P	P	P.PP	cps
Nickel	6P72	8P	65	8P	56	1P.1-	cps
0hosphorus	9172	189	9P8	915	26-	25.52	cps
0otassium	9-72	199-8	19PP6	12364	12- - P	9.21	cps
Rhodium	1P971	6483134	6429161	6544643	633P-86	2.6P	cps
Rhodium	1P972	2854151	9P55949	9P85265	9P12-25	9.- -	cps
Scandium	4371	4911646	42P41-6	494P248	4283969	1.65	cps
Scandium	4372	19411P	14141-	149P38	19-32-	9.41	cps
Selenium	8271	21	1P	799	P	768P9.68	cps
Selenium	5572	5	P	9	9	1PP.P3	cps
Selenium	5872	18	-	13	14	92.59	cps
Silicon	2871	1813-P	158P69	15695P	158654	1.4-	cps
Silver	1P571	142	215	142	165	23.-8	cps
Silver	1P-71	65	1PP	3P	52	93.23	cps
Sodium	2972	96- - 8	95992	96433	96-28	1.2P	cps
Strontium	8671	18PP	2P3P	1289	1511	22.83	cps
Strontium	8871	19PP9	11P53	-431	11156	13.-1	cps
Sulfur	9471	9P3289	9P3895	9P644-	9P3835	P.1-	cps
Terbium	13-71	-1399-6	-194138	-293396	-154969	P.3-	cps
Terbium	13-72	95P513-	9-4386-	9-23555	983-6P2	9.49	cps
Thallium	2P971	1P3P	113P	1P65	1P8-	4.-2	cps
Thallium	2P371	2823	2442	21-2	2486	12.89	cps
Tin	11871	1153	1189	1142	1165	1.8-	cps
Titanium	4571	689	3PP	3P8	364	18.96	cps
Uranium	29871	11PP	599	3PP	558	98.8-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Vanadium	3172	49	4P	69	4-	23.81	cps
Ytterbium	15271	99	53	99	45	3P.- 3	cps
Ytterbium	15272	6	28	22	1-	62.49	cps
Ytterbium	15671	11P8	1123	1399	1236	1- .15	cps
Ytterbium	15672	- P85	- 556	- 6P4	- 48-	9.58	cps
Yttrium	8- 71	12114356	11- 16P44	12285P9-	121P3886	1.39	cps
Yttrium	8- 72	11552P4	12944- -	1261943	122493P	9.31	cps
Zinc	6672	219	165	15P	189	14.2P	cps
Zirconium	- P71	899	53P	323	5P9	22.5P	cps
Zirconium	- 171	89	38	138	1PP	32.P4	cps

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l l e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9 pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-2	1-21	14-6	1-S2	2M4-	dDP
q. Tde C. h	121J1	16 S7	10SS7	1000	1022u	2M0u	dDP
qlPp. cd	0-J2	242	2-7	27S	242	4M06	dDP
Bl l dbe	17-J1	1uuuS	10 0	1u 22	1u- 4	2M10	dDP
Bl l dbe	170J1	7172S	77S4	77141	72-S4	7M16	dDP
BplhNbe	J1	22u1	22S1	22S1	222u	2M30	dDP
BdPe bTE	2S J1	614 S60	641u 7	6702-S1	6717-S2	2M2	dDP
BdPe bTE	2S J2	722u46	7SS16 S	712u10u	711 44-	7M04	dDP
BlCe c p	u1J1	7uu4	76S	4S06	7u-6	6M3	dDP
Fl oe dbe	1SuJ1	10	1-u	1u7	104	0M01	dDP
Fl oe dbe	1S6J1	7010	4160	476u	4Su4	uM1-	dDP
Fl oe dbe	111J1	2--	2-44	27S	240S	-M0u	dDP
Fl Ndbe	47J1	11u71	11u6u	127S4	12SS1	2M1	dDP
Fl Ndbe	44J1	22u271	22u6u0	271666	22 -2u	SM11	dDP
Fl lr C.	12J1	22S- u4	21-2S 4	210u 17	210u 0	1M24	dDP
Fl lr C.	12J2	207-	20206	26u42	201-	1M32	dDP
FENCl c p	7-J1	02S01-	0S06 6	6u11S2	0S7101	2M10	dDP
FENCl c p	7-J2	4 -1	46u4	4 S	4u4u	2M6	dDP
FElCe dbe	-2J2	- u1	6S6-	61S-	6S-S	1M34	dDP
FCr l NT	- J2	4- 1	4u01	46u1	4014	7M37	dDP
FCDDpl	67J2	u606	u406	u0-7	u67-	1M66	dDP
&hPDlCPtbe	1-6J1	u	u	u	u	SM3S	dDP
&hPDlCPtbe	1-6J2	0	0	7	6	74M0S	dDP
Ulr dbe	164J1	0-	-u	2-	-7	4uM24	dDP
Ulr dbe	164J2	27	27	20	24	0M1	dDP
Gl oCNd dbe	16SJ1	110	60	0-	u6	71M11	dDP
Gl oCNd dbe	16SJ2	12S	177	170	17S	6M0	dDP
HCNe dbe	16-J1	u07Su0u	14-66u	262 4	S464	7M3	dDP
HCNe dbe	16-J2	416266	7 11 -4	7 6 077	4S140u6	7M20	dDP
t. odbe	11-J1	6-1107S	660-727	60Su-Su	6671u-4	1M1	dDP
t. odbe	11-J2	1SSS4-0	20 S7	0762	6077S	7M0	dDP
tlC.	-4J2	27714	244S4	2760S	270 6	2M74	dDP
tlC.	-6J2	4260	421 42	42u6--	42-0	SM11	dDP
tlC.	-0J2	1Su26	11S1S	111uu	11SSu	1M64	dDP
KlhDTC.	u7J1	202	20S	261	26u	2M21	dDP
Lpl o	2S6J1	u4u6	26-	SS7	u 1u	4M44	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-4S7 B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0-0-	00uS	06-2	066	1M7-	dDP
Lpl o	2SuJ1	7-714	7-u4u	7-77S	7-4 0	SM-	dDP
LdEdbe	6J1	22uS776	2766-u	2442 71	27672u-	7M4	dDP
9 l g. pPdbe	24J2	20S	1S1--7	6uS-	2S	2M7	dDP
9 l . gl . pPp	--J2	1707	12 0	1767	174-	7M1S	dDP
9 CNr op. be	4J1	10S0u	10-4-	1u1S4	10-06	2M2	dDP
9 CNr op. be	-J1	22-76	216-	2201	227S-	2M4	dDP
9 CNr op. be	6J1	24-40	24464	24622	24-44	SM2	dDP
9 CNr op. be	0J1	12 u	17	17024	17-04	7M1	dDP
9 CNr op. be	uJ1	74SS	7-2-4	7-01-	74 7	2M2	dDP
mpCohe dbe	1-SJ1	2S	S	0		114M-	dDP
mpCohe dbe	1-SJ2	7	S	S	1	107M1	dDP
mdkpN	6SJ2	17-0	1-17	17u0	141	-M6	dDP
3ECPDECIbP	71J2	1-S	2u7	2-S	22u	7SM6	dDP
3CTPPdbe	7 J2	01070	07S00	07144	026-7	1M	dDP
y ECodbe	1S7J1	62 2762	60 46-0	66u 6S	6- 2720	4M2	dDP
y ECodbe	1S7J2	72S-6-6	7S27u2S	7S61-07	7S 0S16	7M1S	dDP
: dl . odbe	4-J1	4S46u-7	424-S 7	474S-	421Su4u	7M6	dDP
: dl . odbe	4-J2	1-1042	17u4	1471--	144466	4M-	dDP
: pNp. dbe	u2J1	001	061	0-2	062	1M7	dDP
: pNp. dbe	00J2	70	7S	2S	2	2 M4	dDP
: pNp. dbe	0uJ2	11	114	1S	114	4M	dDP
: dNdC.	2uJ1	27-44u	272Su	27774	27762	SM7	dDP
: dNpl	1S0J1	1Su7S	1177S	1147S	111 6	2M0	dDP
: dNpl	1S J1	11S7u	1117u	1Su--	11S1S	1M1	dDP
: Codbe	27J2	2S6604	2S677	2S24u4	2S-166	1M7	dDP
: TC. Tdbe	u6J1	72SS	7260	772-	7264	1M2	dDP
: TC. Tdbe	uuJ1	27062	22-6	276 6	27742	2M0	dDP
: bNbl	74J1	71Su21	7124 -	711uS7	7110S0	SM0	dDP
Apl r dbe	1- J1	uuu1 u	246747	46 07-	1 7-6	7M2	dDP
Apl r dbe	1- J2	4S-4021	70-741	7uu7600	7u 0207	7Mu	dDP
AEl NNdbe	2S7J1	1S117	1S767	u46	1S1S0	2M6	dDP
AEl NNdbe	2S-J1	2-S66	276--	220S4	27uS	4M	dDP
Ac	11uJ1	11 2	11 2	1277	12S6	2M3S	dDP
AdT. dbe	40J1	646u	6047	607-	664	2M7-	dDP
5 ll . dbe	27uJ1	722-S	72 6S	7210-	72462	1M7	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	407	4u7	-07	-1S	SMu	dDP
YTpIr dbe	102J1	2-	-S	60	40	44M1	dDP
YTpIr dbe	102J2	77	11	11	1	6 M2u	dDP
YTpIr dbe	106J1	1410	1460	12SS	1761	1SM1	dDP
YTpIr dbe	106J2	1S2 7	1S16-	1S-01	1S747	2M31	dDP
YTTdbe	u J1	11- 4147	121u --u	12S- 6-	11 400u0	2M62	dDP
YTTdbe	u J2	17u16Su	1227u0	126u 02	12 14u6	6M2	dDP
Zc d	66J2	22 4	2744	2-u4	24S0	6M4	dDP
ZddC. dbe	SJ1	144-u	140-S	1-2-S	14u1	2M3S	dDP
ZddC. dbe	1J1	7460	7442	7-S1	740S	SM4	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SMs6	T dbiqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- S0 12:1- J- aJ7s	TI il MdNd:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	17s1	1722	1726	1740	2R7S	OI P
d. ioe C. E	121 1	s- -	a- -	s60	s11	0R62	OI P
dIPp. oO	07 2	21	- 1	2a	20	1sR24	OI P
BI dpe	1- 7 1	207s6	2a- - S	2a4as	2a1- a	1R6s	OI P
BI dpe	1- 0 1	71S- s	4s- a-	7S40S	7S2s0	1R60	OI P
BpIENdpe	s 1	162	16S	177	17s	2R4S	OI P
BqPe biG	2Ss 1	7a00s44	6S- 12- 2	6176S64	6S21040	2R 1	OI P
BqPe biG	2Ss 2	- S200a0	2aa2- 70	2ss666-	2s6as- 6	2R7a	OI P
BIOe q p	a1 1	1766a	1a446	21460	1a720	17R66	OI P
9 I ne dpe	1Sa 1	10	- -	10	22	4- R2a	OI P
9 I ne dpe	1S6 1	- - - 4	- 742	- 4Ss	- 42a	- RSa	OI P
9 I ne dpe	111 1	- 6-	- 0-	- 01	- 6s	1R 2	OI P
9 I NOdpe	4- 1	2S0asa	212sS4	21211s	21Ss04	1R2a	OI P
9 I NOdpe	44 1	- 7SS0s6	- 7s- 746	- 7- Sa1s	- 74102S	1R 4	OI P
9 I Ir C.	12 1	2a710aS	- 1s6s7S	- 4724- 2	- 160S74	sR72	OI P
9 I Ir C.	12 2	4011a	4s66S	711S6	4s2s4	4R1S	OI P
9 GNOIq p	- 7 1	0S6- a1	0Ss4S6	02- a44	01- 21S	1R 1	OI P
9 GNOIq p	- 7 2	7771	7Sa4	7S71	722s	7R 7	OI P
9 GIOe dpe	72 2	0272	01- 7	0S72	0146	1R41	OI P
9 OrI Nd	7s 2	06S	040	670	021	0R0s	OI P
9 Ot t pI	6- 2	22- S	24a4	220S	2- 2a	7Ra7	OI P
TEPt IOPdpe	176 1	260	- SS	207	2a1	6R1a	OI P
TEPt IOPdpe	176 2	11-	12-	1S0	114	0R -	OI P
UIr dpe	164 1	27S	- 10	27S	202	14R14	OI P
UIr dpe	164 2	12S	110	11S	116	4R41	OI P
HI nONq dpe	16S 1	- SS	- Sa	- 7S	- 1s	aR s	OI P
HI nONq dpe	16S 2	210	27S	20S	246	1SR30	OI P
h ONe dpe	167 1	a- ass00	a7asss2	aa7S740	a61S102	2R6a	OI P
h ONe dpe	167 2	- a6- 74S	- 0- 4076	- a- 20- S	- a1S- 42	1R06	OI P
& ndpe	117 1	6- 46461	641s106	647s1a7	64Sa204	SRas	OI P
& ndpe	117 2	s- s7S0	aa026-	s11S26	s127ss	2Ra0	OI P
&C.	74 2	226S2	226sS	22- S0	227- -	SRas	OI P
&C.	76 2	4S7- 46	41- 604	4S4Ssa	4S00S6	1R2a	OI P
&C.	70 2	1Ss21	1Sa6S	1S0a2	1Sa74	SR64	OI P
KIEt iC.	a- 1	24S	227	261	242	0R7-	OI P
LpI n	2S6 1	24- 4	242a	2610	24s-	4R 1	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T :J	y h SMs6	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:1- J- aJ7s	TI il MdNp:mI e p:J	S2- dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	21S6	222a	2Ss7	214-	- R47	OI P
LpI n	2Sa 1	s0S2	1S2- 7	sa6a	ss- 7	2R07	OI P
LqGdpe	6 1	224SS11	24S6- Ss	2206s77	2- S007a	- R0a	OI P
y I g. pPdpe	24 2	- 240- 4	- - S011	- 22s74	- 261- -	1R27	OI P
y I . gI . pPp	77 2	sS16	ass-	aaS-	as- 0	1R 1	OI P
y CNEr np. be	s4 1	277S	2- 07	27a4	27S-	4R40	OI P
y CNEr np. be	s7 1	- 4s2	- 67s	- - 42	- 4sa	4R7-	OI P
y CNEr np. be	s6 1	4S42	- s42	- 060	- s10	- R77	OI P
y CNEr np. be	s0 1	27SS	2227	24Ss	2- 0a	7Ras	OI P
y CNEr np. be	sa 1	771S	7- s-	7706	74s-	1R6s	OI P
mpOnEe dpe	17S 1	720	740	4s-	722	7R16	OI P
mpOnEe dpe	17S 2	10S	10S	170	166	4R67	OI P
mqOkpN	6S 2	1160	1- - -	12- 0	1246	6R02	OI P
uGCPt GCIbP	- 1 2	- SS	27S	2a-	20a	sR16	OI P
uCIl PPdpe	- s 2	1- S1S1	1- 140a	120a46	12saSa	1R41	OI P
FGCndpe	1S- 1	6117062	62aasS7	6- 02766	627sS00	2RSs	OI P
FGCndpe	1S- 2	- S20007	2s41- ss	- S4212a	- SS- 060	1Ra1	OI P
DOI . ndpe	47 1	4S222Sa	4S04s0a	4S042- 7	4S7014S	SR07	OI P
DOI . ndpe	47 2	14S07-	1- 4- 02	1- 6S4S	1- 0S77	2R41	OI P
DpNp. dpe	a2 1	a	0a	6	- S	1- 4RS0	OI P
DpNp. dpe	00 2	S	0	S	2	10- R21	OI P
DpNp. dpe	0a 2	1s	2a	21	2-	2SRa7	OI P
DqNDC.	2a 1	1SaS4SS1	11477Ssa	111a72- 6	1114a112	2R3-	OI P
DqNpI	1S0 1	1Sa	a-	127	1S6	1sRa6	OI P
DqNpI	1Ss 1	110	110	60	1SS	2aRa0	OI P
DOndpe	2- 2	217s642	2166a6s	21Sssaa	21477SS	1R44	OI P
DiIC. idpe	a6 1	sa0S0	1S7714	ss7a0	1S126s	- R36	OI P
DiIC. idpe	aa 1	a61a76	aaaS6-	aa421s	a0aS46	1R61	OI P
DbNbI	- 4 1	4S266-	4S2761	4S6141	4S- 0aa	SR7S	OI P
cpIr dpe	17s 1	a71S1a-	aa- s72-	sSas64-	aa1- 116	- R S	OI P
cpIr dpe	17s 2	- a72474	- 046- s-	- aS4asa	- aS124s	1R4S	OI P
cGI NNpe	2S- 1	6s2	77S	6s2	644	12R6s	OI P
cGI NNpe	2S7 1	12s2	1160	1S07	110a	sR2-	OI P
cq	11a 1	22s2	2- Ss	1s7s	21a6	sRS-	OI P
cqI . dpe	40 1	060	s42	aSS	a- 6	11R1	OI P
5 II . dpe	2- a 1	1s- 2-	2S0S1	1sa- -	1ss72	- R4s	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nb. i:DI e t Nb:&T :J	y h SMs6	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:dQobdpn:J	2S2- S0 12:1- J- aJ7s	TI il MdbI:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	47-	770	4sS	7SS	1SR4a	OI P
YiipIr dpe	102 1	17a	110	1- -	1- 6	17R41	OI P
YiipIr dpe	102 2	1S6	61	as	a7	26R 6	OI P
YiipIr dpe	106 1	147S	127S	1210	1- S6	sR30	OI P
YiipIr dpe	106 2	sa- 2	s7sa	s6s-	s0S0	1R21	OI P
YiiIdpe	as 1	112sa676	1147S110	11761414	114- 602s	1R17	OI P
YiiIdpe	as 2	1241as2	1166a47	12Ss707	12S61S4	- R12	OI P
ZqO	66 2	4414	4- s0	4S- 0	42a-	4R30	OI P
ZdOC. dpe	sS 1	12Sa	1427	107s	1464	1aR3-	OI P
ZdOC. dpe	s1 1	1a-	260	- s2	2a1	- 0R a	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	21Sh	2Sa1	2S24	2S01	2M8h	dDl
qCTb nCE	121 1	610	6h2	67S	67-	7M06	dDl
qpl r Ccl	07 2	60	74	7a	6S	11M16	dDl
Bwpcmb	1- 7 1	4h710	714S0	7221S	71S47	2M01	dDl
Bwpcmb	1- 0 1	a660a	ah71-	hS26a	aaa1h	2M1-	dDl
Br pE8mb	h 1	212	2- 1	21h	221	4M2	dDl
Bdl b mTG	2Sh 1	6- h- haS	620a- 74	644h6S4	6- 0- h0h	1M0	dDl
Bdl b mTG	2Sh 2	- SS147-	- - - h12h	- Sa14a1	- 14S6aa	7M02	dDl
Bpmb cCr	a1 1	2707a	- 1- 61	- 0h44	- 16aa	1hM27	dDl
5 wob cmb	1Sa 1	h2	- -	a-	6h	47M44	dDl
5 wob cmb	1S6 1	- 7a4	- 710	- 7S1	- 7- 4	1M27	dDl
5 wob cmb	111 1	- a6	- h1	- 0h	- a7	1M72	dDl
5 w8lcmb	4- 1	4211h0	4- 6h02	44661S	4- 4h26	2M17	dDl
5 w8lcmb	44 1	0- 1660h	026SS7a	0717a10	0- 641a7	1M42	dDl
5 wpenC	12 1	4Sa2762	477ah74	407721a	446770a	0M07	dDl
5 wpenC	12 2	67S20	60067	67h4a	66240	2M1S	dDl
5 G8hpCr	- 7 1	6a27h4	0SS207	0211- S	0S1- - -	2M07	dDl
5 G8hpCr	- 7 2	7- 6S	7006	7- 7h	74ha	4Ma	dDl
5 Gpmb cmb	72 2	4S- 0	4SS0	- 0h4	- h46	- M6	dDl
5 new8T	7h 2	17S-	1700	164S	170-	4M7	dDl
5 nDDr p	6- 2	264S	27S0	20a4	2644	7M4-	dDl
&El Dpnl cmb	176 1	- 07	207	- 42	- - 1	17M4S	dDl
&El Dpnl cmb	176 2	100	14S	14-	17-	1- M42	dDl
Fpecmb	164 1	- a-	442	4a-	4- 6	11M72	dDl
Fpecmb	164 2	16S	120	220	101	2hM06	dDl
Hwon8Cmb	16S 1	- h2	- 60	47S	4S-	1SM02	dDl
Hwon8Cmb	16S 2	2hS	260	200	20a	4M42	dDl
y n8b cmb	167 1	hS7741S	ahh4- a1	hS22SS2	hS2- h- 1	SM4	dDl
y n8b cmb	167 2	- h- a- 6h	4- 0a- S0	4S6- S01	41267a2	7M4h	dDl
tCocmb	117 1	6711014	6740a- 1	64- 16- h	64h0S61	SM42	dDl
tCocmb	117 2	h1- a1-	1S- - - 22	h64044	h0S626	6M1a	dDl
tpnC	74 2	6Sa- 7	7hS11	700- h	7h1h7	2M0-	dDl
tpnC	76 2	1Sa- 2ha	1S014S2	1S004- a	1S00- aS	SM77	dDl
tpnC	70 2	20a20	2aa1a	2ah04	2a74S	2M1a	dDl
KpEDTnC	a- 1	242	214	24S	2- 2	6M46	dDl
Lr wo	2S6 1	2- 76	2711	2476	2441	- M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :uwb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	2S76	1hah	1aah	1h0a	4M24	dDl
Lr wo	2Sa 1	h7- 7	h61-	h1h6	h44a	2M7	dDl
LdTGmb	6 1	2- SS- 40	2- Sh- a-	22hh6hS	2- S- 14S	SM24	dDl
9 wgCr l mb	24 2	a- h7- a	a44441	a- 6020	a4S2- 7	SM46	dDl
9 wCgwCr l r	77 2	40- 0a	407S2	40066	4074h	SM42	dDl
9 n8Eeor Cmb	h4 1	1S- 21	1S674	1S20h	1S41a	1M10	dDl
9 n8Eeor Cmb	h7 1	104- 6	1aS74	10a2S	1000S	1M07	dDl
9 n8Eeor Cmb	h6 1	1ah40	1hS- h	1h7a1	1h1ah	1M0h	dDl
9 n8Eeor Cmb	h0 1	1S0- a	1S646	117aa	1Shh1	4M0-	dDl
9 n8Eeor Cmb	ha 1	20- 1h	2a246	2a2aa	20h71	1M46	dDl
ur noEb cmb	17S 1	62S	62S	7a0	6Sh	- M46	dDl
ur noEb cmb	17S 2	160	160	1hS	104	0M02	dDl
ucdkr 8	6S 2	67S	0- 0	64-	600	0M0S	dDl
NGhl DGhpml	- 1 2	1h2	- SS	47a	- 10	42M7	dDl
NnTwl l cmb	- h 2	21a4aS	2107hh	21aa16	21a2hh	SM2h	dDl
. Ghocmb	1S- 1	6446ha7	64S2- 14	6- h66- 1	6417- 1S	SM4-	dDl
. Ghocmb	1S- 2	2ha- 7a1	- - 0hS70	- S00- 61	- 146666	6M70	dDl
l dwCocmb	47 1	412S40h	4217a- 1	41742S4	416- 7S7	1M46	dDl
l dwCocmb	47 2	14SS16	174S1h	146S4a	1466h4	4M0h	dDl
l r 8 Ccmb	a2 1	41	76	0-	70	20M7a	dDl
l r 8 Ccmb	00 2	-	S	0	-	1SSM37	dDl
l r 8 Ccmb	0a 2	2-	17	20	22	2aM2S	dDl
l 8dnC	2a 1	107- a60-	1a- - a20-	10074411	10a0011h	2M1	dDl
l 8vr p	1S0 1	1Sa	7S	127	h4	41M0S	dDl
l 8vr p	1Sh 1	110	- -	h2	a1	7- M3h	dDl
l nocmb	2- 2	4- - 4a2S	420044S	4Sh1040	42- 466h	- M3S	dDl
l TpmCTcmb	a6 1	2711h2	2611- 4	261744	270h70	2M20	dDl
l TpmCTcmb	aa 1	226S204	2- 74- 7S	2- aa46h	2- - 4- 64	2M44	dDl
l m8mp	- 4 1	671471	6644S-	661Sa6	67ahaS	1M32	dDl
Ar pecmb	17h 1	h1h61- 4	ahaah16	h2- 40h-	h1- hh4a	1M47	dDl
Ar pecmb	17h 2	- a441- -	421244-	- ah44Sa	- ha- 661	7M31	dDl
AGw8mb	2S- 1	7- -	47a	77a	710	1SM30	dDl
AGw8mb	2S7 1	1442	1210	1- - -	1- - 1	aM46	dDl
AdC	11a 1	22SS	24SS	2442	2- 4a	7M7S	dDl
AdTwCcmb	40 1	1S07	a42	a7S	h22	14M7	dDl
RpwCcmb	2- a 1	424S7	4- 1S0	4- 216	42hSh	1M3-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	71 2	47-	44-	40-	470	- M7	dDl
YTTr pecmb	102 1	127	17a	227	16h	- SN87	dDl
YTTr pecmb	102 2	110	a-	122	1S0	1hM7a	dDl
YTTr pecmb	106 1	147a	1410	1- 7S	14Sa	- Nda	dDl
YTTr pecmb	106 2	1SS17	11177	1SS4h	1S4S6	6M2-	dDl
YTTpcmb	ah 1	117h6217	11- a2Sh2	11ha0100	11677161	2M4-	dDl
YTTpcmb	ah 2	12- S777	141a4a7	1- - - S1-	1- 20- 71	0N8h	dDl
ZdCd	66 2	11607	116S7	12117	110ha	2M7	dDl
ZqpdnCcmb	hS 1	17Sh	1710	1- 7S	147a	6M44	dDl
ZqpdnCcmb	h1 1	2h2	1a-	242	2- h	22N0S	dDl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1h22	1h- S	1hS7	1h1h	SM60	dDl
qCTb nCE	121 1	0- -	a42	77S	0Sa	2SM41	dDl
qpl r Ccl	07 2	01	76	61	6-	12M1h	dDl
Bwpcmb	1- 7 1	72171	72h62	71122	72S0h	1M00	dDl
Bwpcmb	1- 0 1	ahSa7	h20- 4	h2S02	h12h0	2M1-	dDl
Br pE8mb	h 1	1a0	1h6	1a1	1aa	4M8S	dDl
Bdl b mTG	2Sh 1	610424S	7a617S0	62a702-	61S0170	- M0S	dDl
Bdl b mTG	2Sh 2	2hh7461	- S46SaS	- SS16- S	- S14- hS	SM12	dDl
Bpmb cCr	a1 1	2a0- a	- 644S	- h617	- 4h- 1	16M81	dDl
5 wob cmb	1Sa 1	07	7S	60	64	1hM12	dDl
5 wob cmb	1S6 1	- 7S1	- 206	- 706	- 471	4M7-	dDl
5 wob cmb	111 1	- 6S	- a4	- a6	- 00	- M44	dDl
5 w8lcmb	4- 1	4- ShS1	4- h700	44612-	4- aa60	1M04	dDl
5 w8lcmb	44 1	0166h12	04a4h61	07S1- S6	0- a4- h-	2M77	dDl
5 wpenC	12 1	416S417	474h7h2	4a6a002	472626S	0M44	dDl
5 wpenC	12 2	64410	6a74-	6h724	604h4	4M82	dDl
5 G8hpcCr	- 7 1	6744hh	602S02	6h447a	60- 606	2M10	dDl
5 G8hpcCr	- 7 2	4ah-	4h26	7471	7ShS	6M16	dDl
5 Gpmb cmb	72 2	- a24	4S40	- a71	- hS0	- M12	dDl
5 new8T	7h 2	16- S	1010	144-	17h0	aM07	dDl
5 nDDr p	6- 2	2- 44	2- 0S	24- S	2- a1	1M46	dDl
&El Dpnl cmb	176 1	2a-	207	227	261	12M8a	dDl
&El Dpnl cmb	176 2	100	16-	14-	161	1SM41	dDl
Fpecmb	164 1	- 7S	260	- 27	- 14	1- M02	dDl
Fpecmb	164 2	14-	1aS	14S	174	14M0	dDl
Hwon8Ccmb	16S 1	- - -	- h2	460	- h0	16M4-	dDl
Hwon8Ccmb	16S 2	2hS	2- -	2- 0	27-	12M77	dDl
y n8b cmb	167 1	aa- 4070	a- 47710	h2- - - 7a	aaS4744	7M87	dDl
y n8b cmb	167 2	- ha721-	4S40166	- h6- 04h	- hha0Sh	1M8a	dDl
tCocmb	117 1	671aSh0	61aS7S7	6710417	64S7- - h	- M84	dDl
tCocmb	117 2	h- h7h1	h27- 01	h26S- -	h- S- - 2	SM46	dDl
tpnC	74 2	7- 7a4	77h- 2	7720h	74h- 1	2M21	dDl
tpnC	76 2	1SSa7- 6	1S224S0	1SS2h16	1S112a0	SM1h	dDl
tpnC	70 2	26- 7a	26- 72	26- 6-	26- 7a	SM82	dDl
KpEDTnC	a- 1	241	220	2- h	2- 6	- M11	dDl
Lr wo	2S6 1	2Sah	2210	2S60	2124	- M41	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :uwb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1047	1676	10SS	10SS	2M61	dDl
Lr wo	2Sa 1	0h0h	a271	0a2h	aS2S	2M60	dDl
LdTGmb	6 1	2- - 077-	210hh06	2- 0041h	22ha- 16	4M74	dDl
9 wgCr l mb	24 2	a476S1	a460a-	a72h04	a4a47-	SM40	dDl
9 wCgwCr l r	77 2	40Sa0	4a4- h	4014a	4077a	1M61	dDl
9 n8Eeor Cmb	h4 1	1SS- 0	haa0	1S7h6	1S10-	- M60	dDl
9 n8Eeor Cmb	h7 1	101- 6	10S61	1a162	1047-	- M7-	dDl
9 n8Eeor Cmb	h6 1	1a66-	1h1ah	1a0aa	1aaaS	1M47	dDl
9 n8Eeor Cmb	h0 1	1S6- a	1Sa01	1S- - 0	1S617	2M72	dDl
9 n8Eeor Cmb	ha 1	2a- 6-	2a6- h	20261	2aSaa	2M6S	dDl
u r noEb cmb	17S 1	61-	760	6aS	62S	hM1h	dDl
u r noEb cmb	17S 2	100	100	1hS	1a1	4M27	dDl
u cdkr 8	6S 2	67-	0- 0	7hS	66S	11M17	dDl
NGhl DGhpml	- 1 2	2- -	210	2a-	244	14M1h	dDl
NnTwl l cmb	- h 2	2164h4	210aa1	214a04	216416	SM0S	dDl
. Ghocmb	1S- 1	64SS00-	6S160ha	640a461	62ha60a	- M12	dDl
. Ghocmb	1S- 2	- S- 7004	2h02- 44	- S24S- S	- S1S016	1M12	dDl
l dwCocmb	47 1	41S4- 11	- ah- S6S	42- - 641	4S00SS4	4M22	dDl
l dwCocmb	47 2	1- h1- S	14S0h6	1- h- 0a	1- h06a	SM04	dDl
l r 8 Ccmb	a2 1	7a	ah	110	aa	- 4M1-	dDl
l r 8 Ccmb	00 2	S	1S	1S	0	a6M0S	dDl
l r 8 Ccmb	0a 2	10	1a	26	2S	24M26	dDl
l c8dnC	2a 1	1046- S4h	100S07S0	10704104	107a1700	SM0S	dDl
l c8vr p	1S0 1	7a	a-	127	ah	- 0M1h	dDl
l c8vr p	1Sh 1	7S	60	42	7-	24M12	dDl
l nocmb	2- 2	42- 0- - 1	4242h66	42h4a77	427a- a4	SM04	dDl
l TpnCTcmb	a6 1	27- 2- 4	27ha02	27hh- 4	2706aS	1M4h	dDl
l TpnCTcmb	aa 1	220ah- S	2- 61ah4	24S616h	2- 4ahh0	2M07	dDl
l m8mp	- 4 1	6407- S	674274	674a6S	672217	SM62	dDl
Ar pecmb	17h 1	aa0002a	a47- h- 6	h1a- a7h	aa- a7Sa	4M17	dDl
Ar pecmb	17h 2	- ah10S0	- a0h7- 7	- hS1- 0h	- ahSa0-	SM2a	dDl
AGw8mb	2S- 1	442	- Sa	727	427	27M02	dDl
AGw8mb	2S7 1	a- -	h42	a42	a02	6M11	dDl
AdC	11a 1	2S42	1a60	1h7h	1h76	4M1a	dDl
AdTwCcmb	40 1	a10	0h2	007	0h4	2M64	dDl
RpwCcmb	2- a 1	412S1	4216-	42- 64	41hSh	1M1a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	71 2	70-	- aS	4SS	471	2- M0	dDl
YTTr peomb	102 1	1a-	2Sa	1h2	1h4	6M7	dDl
YTTr peomb	102 2	60	111	h4	h1	24M4	dDl
YTTr peomb	106 1	1- - -	1260	14h2	1- 64	aM0	dDl
YTTr peomb	106 2	1S- 74	1S421	1S101	1S- 17	1M6	dDl
YTTpomb	ah 1	1162- S41	11SS6074	11aahSaa	117S62h4	- M-	dDl
YTTpomb	ah 2	1270S0S	12- a- 07	122a016	1241- a0	1M6	dDl
ZdCd	66 2	112h7	1176a	117- 1	11467	1MS	dDl
ZqpdnComb	hS 1	11SS	1S7S	1S60	1S02	2M0	dDl
ZqpdnComb	h1 1	242	210	2- -	2- 1	7M2	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Aluminium	23X2	436	022	02O	0O6	0.14	cps
Antimony	121X1	10O	130	242	189	20.O9	cps
Arsenic	30X2	10	11	11	12	18.32	cps
Barium	1- 0X1	1O3- 8	1O046	11- O0	1O86-	- .6-	cps
Barium	1- 3X1	186O0	180- 8	1904O	18894	2.96	cps
Beryllium	9X1	80	80	89	86	2.01	cps
Bismuth	2O9X1	60- 3094	601344-	60- O1O8	6028- 82	O.16	cps
Bismuth	2O9X2	- 1- - 894	- 24O849	- O98- 34	- 103632	2.- 0	cps
Bromine	81X1	14920	16236	1094-	10310	4.48	cps
Cadmium	1O8X1	04	- -	31	0-	- 0.6O	cps
Cadmium	1O6X1	- 392	- 836	- 809	- 842	1.10	cps
Cadmium	111X1	- 04	- 9-	- 3O	- 32	0.- 0	cps
Calcium	4- X1	9O- 3O	91O91	91031	91O1O	O.66	cps
Calcium	44X1	1039029	1089636	161- 01O	10942- 9	1.O9	cps
Carbon	12X1	- O003- 1	- 14- 232	- 121- O2	- 1O6368	1.43	cps
Carbon	12X2	4O3O3	- 9O19	- 8068	- 94- 1	2.86	cps
Chlorine	- 0X1	483029	438300	434233	48O183	1.4O	cps
Chlorine	- 0X2	- 9O9	- - 13	- 436	- 063	8.09	cps
Chromium	02X2	16- O	133-	132-	13O9	4.26	cps
Cobalt	09X2	- 3-	- OO	4O-	- 09	14.81	cps
Copper	6- X2	1O9O	1213	126-	119O	3.04	cps
Dysprosium	106X1	1O8	63	92	89	2- .09	cps
Dysprosium	106X2	- -	13	4O	- O	4O.O0	cps
Erbium	164X1	18-	130	120	161	19.08	cps
Erbium	164X2	4-	0O	6O	01	16.42	cps
Gadolinium	16OX1	142	30	108	120	- 0.28	cps
Gadolinium	16OX2	16-	18O	13O	131	4.9O	cps
Holmium	160X1	9- 40643	918- 938	92O899-	92462O6	O.94	cps
Holmium	160X2	41430O4	4148- 13	414- 3- 6	4146019	O.O6	cps
Indium	110X1	68169OO	68O0O- 6	681O69-	681O836	O.O9	cps
Indium	110X2	9866- 4	968831	932640	936O0O	O.96	cps
Iron	04X2	11900	12O00	12189	12O66	O.93	cps
Iron	06X2	214O80	21938O	21- 6O3	210824	1.09	cps
Iron	03X2	0824	6- 46	0368	0939	0.- -	cps
Krypton	8- X1	204	26O	23O	261	- .14	cps
Lead	2O6X1	1O90	11- 9	1122	1119	2.O1	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264C3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XC2L70	Instrumnet Name :	P8
Client Sample ID :	MHCF93L	Dilution Factor :	0
Date & Time Acquired :	2C2- XC3X12 1- :43:06	DataFile Name :	C26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Lead	2C3X1	8C6	9CC	8C6	8- 3	6.01	cps
Lead	2C8X1	42C6	4C2-	4C89	41C6	2.26	cps
Lithium	6X1	241- 092	2- 01- 88	2- 841C3	2- 8- C29	1.- 1	cps
Magnesium	24X2	1348C2	1369- 4	1693C9	13- 810	2.14	cps
Manganese	00X2	988C	93- -	949C	93C1	2.C-	cps
Molybdenum	94X1	20- 4	240C	2192	2- 92	3.40	cps
Molybdenum	90X1	- 242	- - C9	- 6C9	- - 83	0.33	cps
Molybdenum	96X1	- 392	- 926	4- C1	4CC6	6.08	cps
Molybdenum	93X1	2163	22- 4	200C	2- 13	8.84	cps
Molybdenum	98X1	0626	06- 0	61- 0	0399	0.C2	cps
Neodymium	10CX1	83	1C3	14C	111	24.20	cps
Neodymium	10CX2	4-	4C	0-	46	10.2-	cps
Nickel	6CX2	193	103	2C-	186	1- .6C	cps
Phosphorus	- 1X2	220	192	2C8	2C8	8.CC	cps
Potassium	- 9X2	0- 826	04244	02039	0- 00C	1.62	cps
Rhodium	1C- X1	6692699	6636- 04	631C688	669- 243	C.26	cps
Rhodium	1C- X2	- 200- 29	- 21- 93C	- 14- 8- 6	- 2C4- 38	1.36	cps
Scandium	40X1	4- 8- C12	42- 46C9	42C1003	423- C6C	2.26	cps
Scandium	40X2	1449C-	146C64	143C30	146C14	C.34	cps
Selenium	82X1	41	X16	X4	3	426.90	cps
Selenium	33X2	C	C	C	C	C.CC	cps
Selenium	38X2	19	10	10	16	14.14	cps
Silicon	28X1	- 3- 0016	- 398168	- 833433	- 8C- 32C	1.83	cps
Silver	1C3X1	1C8	08	120	93	- 0.69	cps
Silver	1C9X1	42	42	13	- -	4- .- C	cps
Sodium	2- X2	89- 644	886199	88- 202	883698	C.6C	cps
Strontium	86X1	048C8	0- 428	04- 81	042C6	1.- C	cps
Strontium	88X1	409- 98	46183-	408911	46CC61	C.- 0	cps
Sulfur	- 4X1	- 660- 9	- 60868	- 6628C	- 66229	C.C9	cps
Terbium	109X1	9409182	9299123	928841C	9- 489C6	1.C2	cps
Terbium	109X2	41212- 3	- 99- 3- 0	- 933012	4C- C828	1.90	cps
Thallium	2C- X1	292	- 20	- 8-	- - -	1- .92	cps
Thallium	2C0X1	80C	330	313	381	8.06	cps
Tin	118X1	1692	1420	14C8	10C8	1C.04	cps
Titanium	43X1	292	230	- CC	289	4.41	cps
Uranium	2- 8X1	8038	862C	88C-	8663	1.- 8	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Vanadium	01X2	1O3	1O3	8O	98	10.30	cps
Ytterbium	132X1	1- -	63	30	92	- 9.6-	cps
Ytterbium	132X2	44	0O	06	0O	11.11	cps
Ytterbium	136X1	1142	1263	1- 42	120O	8.O3	cps
Ytterbium	136X2	1O136	1O604	1O- 99	1O41O	2.- O	cps
Yttrium	89X1	12- O0822	1186991O	12O8O- 0O	12O80- 61	1.8O	cps
Yttrium	89X2	1- O2- 43	1292640	12361- 4	129O- 30	1.O-	cps
Zinc	66X2	260O	232O	2093	2606	2.- -	cps
Zirconium	9OX1	40O	60O	030	008	18.1O	cps
Zirconium	91X1	92	1O8	92	93	9.9O	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :uwb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	h24S6	h2046	h2h60	h20S6	SM1S	dDl
qCTb nCE	121 1	7S40S7	717- 21	726h76	71766S	2M16	dDl
qpl r Ccl	07 2	7776	766S	774a	77aa	1M12	dDl
Bwpcmb	1- 7 1	27a1012	26616hS	270Sa02	26S407a	1M1S	dDl
Bwpcmb	1- 0 1	4- hh67a	446ah- -	4441h7a	44- 6a4h	SM0h	dDl
Br pE8&mb	h 1	0S- - 7	0- a- h	0- - 60	02714	2M62	dDl
Bdb mTG	2Sh 1	622077a	6- 72h76	62- 720a	6201h- 1	1M12	dDl
Bdb mTG	2Sh 2	2hhaa12	- S616h1	- S76h21	- S- h141	1M17	dDl
Bpmb cCr	a1 1	277h1	- 1244	- 4a44	- S77h	17M26	dDl
5 wob cmb	1Sa 1	4171	4640	46h0	44ha	6M01	dDl
5 wob cmb	1S6 1	h212	h- 47	h70S	h- 06	1M1-	dDl
5 wob cmb	111 1	64- 46	6466h	6- 7h-	642S-	SM46	dDl
5 w8lcmb	4- 1	4264h-	4- h70S	441026	4- 7h- S	1M4h	dDl
5 w8lcmb	44 1	01aah12	0- 01S4-	0- 664S-	0- Sa0a6	1M42	dDl
5 wpenC	12 1	- ah7- - 7	4- 47h42	4662162	4- S1146	aM16	dDl
5 wpenC	12 2	647a4	60h4h	600S0	66040	2M41	dDl
5 G8hpcCr	- 7 1	- - 466ha	4Sa11a-	4672627	4S26a- 7	16M26	dDl
5 G8hpcCr	- 7 2	4Sha4	44a- 0	40- - 6	44- a6	0M21	dDl
5 Gpmb cmb	72 2	- - 7aa1	- - 02h0	- - 7h16	- - 6- 64	SM24	dDl
5 new8T	7h 2	17h42SS	162a1a0	1672S- -	1624aS0	1M0h	dDl
5 nDDr p	6- 2	6SS- 14	6S1- Sh	6SS2a0	6SS6- 0	SM1S	dDl
&El Dpnl cmb	176 1	- - -	- 07	- Sa	- - h	hM14	dDl
&El Dpnl cmb	176 2	170	1h0	17S	16a	17M84	dDl
Fpecmb	164 1	4SS	- 60	2a-	- 7S	10M10	dDl
Fpecmb	164 2	140	16-	1a-	164	11M16	dDl
Hwon8Cmb	16S 1	4- -	4- -	- 7S	4S6	11M46	dDl
Hwon8Cmb	16S 2	270	26-	- 2-	2a1	1- M86	dDl
y n8b cmb	167 1	a67- 60h	hS6SS00	hS- 74h7	ah16410	2M76	dDl
y n8b cmb	167 2	- h0- 770	- ah1a70	- ha7106	- h7S1h0	1M2h	dDl
tCocmb	117 1	67- 7Sah	6626766	64- h202	67- - 642	1M1-	dDl
tCocmb	117 2	h- haSa	h- 127h	h- 17h1	h- 421h	SM72	dDl
tpnC	74 2	11- 7- 0	11- 6- 2	111ha6	11- S71	SM42	dDl
tpnC	76 2	1h074S4	1hhh170	1hh- 2ha	1hah2a6	SM62	dDl
tpnC	70 2	40- h6	4ah- 4	4a2S4	4a10a	1M6S	dDl
KpEDTnC	a- 1	2- 4	264	2- 2	24-	0M20	dDl
Lr wo	2S6 1	h2624	h04h0	h- 6Sa	h4700	2M02	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :uwb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	a106a	a4S21	a21S-	a26- 1	1M40	dDl
Lr wo	2Sa 1	- 027- 6	- a04- 0	- aS4hh	- aS170	1M16	dDl
LdTGmb	6 1	2- 1h26-	2- 40a4S	2- 2a7S0	2- - 1a0S	SM0-	dDl
9 wgCr l mb	24 2	a- a606	a4- a2h	a4h12a	a4- a00	SM02	dDl
9 wCgwCr l r	77 2	4740h1	46402h	477706	47a- 67	1M21	dDl
9 n8Eeor Cmb	h4 1	1S274	1S61-	1S40h	1S44h	1M0-	dDl
9 n8Eeor Cmb	h7 1	102h7	16h44	10711	1027S	1M06	dDl
9 n8Eeor Cmb	h6 1	1ahS7	1hS02	1ah02	1aha-	SM44	dDl
9 n8Eeor Cmb	h0 1	1S401	11S77	1SaS7	1S000	2M02	dDl
9 n8Eeor Cmb	ha 1	20S72	2a401	20074	2007h	2M76	dDl
u r noEb cmb	17S 1	aSS	6h-	67-	016	1SM0S	dDl
u r noEb cmb	17S 2	1hS	1h0	2S0	1ha	4M24	dDl
u cdkr 8	6S 2	421617	41h4ha	424h0S	422S2a	SM67	dDl
NGhl DGhpml	- 1 2	2SS	2- -	260	2- -	14M2h	dDl
NnTwl l cmb	- h 2	2161ah	21- 764	216h76	21770S	SM4-	dDl
. Ghocmb	1S- 1	6- - 06a4	64Sa1a4	6- 60a00	6- 0124a	SM76	dDl
. Ghocmb	1S- 2	- S61776	- S7h- 7S	- S6- 044	- S6177S	SM80	dDl
l dwCocmb	47 1	4121014	42S160S	41746- h	417h- 41	SM10	dDl
l dwCocmb	47 2	14- a26	1- a62h	14S614	141S2-	1M46	dDl
l r 8 Ccmb	a2 1	hSha	h401	h4a1	h- 7S	2M-	dDl
l r 8 Ccmb	00 2	- - 0	- 1S	240	2ha	17M-	dDl
l r 8 Ccmb	0a 2	1S- 7	1SSa	1S21	1S21	1M2	dDl
l 8dnC	2a 1	1040aSSa	1a1aaS0-	1a2ha17h	10haaSaS	2M40	dDl
l 8vr p	1S0 1	2hS122	2ha0a6	2h- 607	2h41h7	1M4a	dDl
l 8vr p	1Sh 1	202472	200S- S	2a41- -	200a02	2M12	dDl
l nocmb	2- 2	42a676h	42a4017	4260- 40	420h744	SM27	dDl
l TpnCTcmb	a6 1	27SS70	26S714	27ah2a	2764hh	2M2S	dDl
l TpnCTcmb	aa 1	22aS741	22aa747	2- a2421	2- 1016h	2M44	dDl
l m8mp	- 4 1	64- 7S6	67h- - S	6700hS	67- 742	1M4	dDl
Ar pecmb	17h 1	ah2a10-	h10160-	h2- S114	h1Shha0	1M06	dDl
Ar pecmb	17h 2	- hS7006	- h221a2	- a- h- 0S	- aah1Sh	1M-	dDl
AGw8cmb	2S- 1	26h6- 1	2a27h1	200- 01	2067- 1	2M6	dDl
AGw8cmb	2S7 1	66S4h2	6a24a2	60416a	602- a1	1M67	dDl
AdC	11a 1	1hh2	2- 7h	2610	2- 22	1- M-	dDl
AdTwCcmb	40 1	h27	1S7S	1S27	1SSS	6M61	dDl
RpwCcmb	2- a 1	4S0Sa	42S12	426ha	41aS6	2M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :u wb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	71 2	64420h	6426Sa	64- 16-	64- - 7S	SM1-	dDl
YTTr pecmb	102 1	210	210	227	21h	2M1h	dDl
YTTr pecmb	102 2	1S6	h4	h4	ha	6M74	dDl
YTTr pecmb	106 1	147S	17- -	14h2	14h2	2M0h	dDl
YTTr pecmb	106 2	1S174	h417	h626	h0- 2	- M11	dDl
YTTpcmb	ah 1	1170ah1-	117Sa4- a	11h7a720	116a1h7h	2M80	dDl
YTTpcmb	ah 2	126- h- 0	12446a2	127242S	127- 6aS	SM00	dDl
ZdCd	66 2	176071	17a407	176h0-	1704SS	SM0S	dDl
ZqpdnCcmb	hS 1	1107	1127	1227	1107	4M26	dDl
ZqpdnCcmb	h1 1	- 7a	- - -	260	- 1h	14M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPmTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r :J	S2Nq . FUM

8 sp sb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCcmb	20 2	1hhS	2S76	2120	2S7N	- M4	dDw
qCTb nCE	121 1	1S- -	1127	1S60	1S07	4M2	dDw
qpwr Ccd	07 2	74	6-	64	6S	hM1-	dDw
Bspcmb	1- 7 1	7SN46	71066	72Nh6	71N- 6	1M1N	dDw
Bspcmb	1- 0 1	Nh066	h20S1	h2- - 2	h16SS	1M07	dDw
Br pEPRmb	h 1	21S	21h	246	227	NM41	dDw
Bcvb mTG	2Sh 1	62N464N	620hN4S	0S4166h	67- 7- N7	6M01	dDw
Bcvb mTG	2Sh 2	- 11NN74	- Sh7SN2	- S047N2	- Sh610-	SM02	dDw
Bpmb dCr	N1 1	20N47	- - h27	- 0107	- 2hN2	14M6	dDw
5 sob cmb	1SN 1	42	6-	21	42	7SM3S	dDw
5 sob cmb	1S6 1	- - 06	- 460	4Sh2	- 647	1SM0S	dDw
5 sob cmb	111 1	4SS	- 0N	4hh	426	17M12	dDw
5 sPdcmb	4- 1	42h0S1	44- N0S	44Sh- 2	4- N16N	1M01	dDw
5 sPdcmb	44 1	016N- 0h	0412S60	0- 4h6h2	0- 1SS46	1M0-	dDw
5 spenC	12 1	- N- 0h2-	42- N72S	44h2102	41Nh7- N	0MM0	dDw
5 spenC	12 2	6S671	6- S20	62hN7	62221	2M1h	dDw
5 GPmpdCr	- 7 1	1Nh6hh4	1N4- 1- -	1N11S20	1N7S- N7	2M7	dDw
5 GPmpdCr	- 7 2	12S14	12222	11N22	12S1h	1M60	dDw
5 Gpmb cmb	72 2	4h14	7SN1	4NhN	4h64	2M34	dDw
5 nesPT	7h 2	2104	2S00	211S	212S	2M2	dDw
5 nDDr p	6- 2	27h0	2700	27N0	27N0	SMh	dDw
&EwDpnwcmb	176 1	- - -	427	260	- 42	2- M20	dDw
&EwDpnwcmb	176 2	1- -	1- -	1N0	171	2SMN	dDw
Fpecmb	164 1	- N-	227	- 42	- 10	27M2	dDw
Fpecmb	164 2	160	2SS	100	1N1	hM4	dDw
HsonPdCcmb	16S 1	4SN	- SS	4h2	4SS	24M3-	dDw
HsonPdCcmb	16S 2	2NS	- h-	2N-	- 1h	2SM2	dDw
y nPb cmb	167 1	NNhh740	NhN1h77	1S- hNN1S	h426001	NM4	dDw
y nPb cmb	167 2	4S2S7- S	4S6NSS2	- hNh27N	4S27h- S	SMN	dDw
tCocmb	117 1	67S0h72	6N16217	04h6hh2	6h4S- N6	0M2h	dDw
tCocmb	117 2	h7N77-	h72- S4	h- NS6S	h4h6- h	1M1	dDw
tpnC	74 2	1S4h-	1S206	1Sh4-	1S701	- M2	dDw
tpnC	76 2	1N0S24	1NN606	1N- h21	1N674S	1M2h	dDw
tpnC	70 2	614S	6S70	621N	61- N	1M1	dDw
KpEDTnC	N- 1	226	274	276	247	6M0N	dDw
Lr so	2S6 1	2N- 4	- 12-	- S0-	- S1S	7M-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUhN	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:usb r:J	S2Nq. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	22Nh	2411	2- Nh	2- 6-	2M06	dDw
Lr so	2SN 1	11SNS	11h07	11627	1176S	- M1S	dDw
LdTGmb	6 1	22N4- 6-	2- N67NS	27- 1N1-	24SSh1h	7M1N	dDw
9 sgOr wcmb	24 2	N- 0S02	N46NS-	N- N466	N4S0N1	SM0-	dDw
9 sOgsOr wr	77 2	40- SN	462- N	46N40	460hN	1M17	dDw
9 nPEeor Cmb	h4 1	1S20h	1S02h	1S- 6-	1S470	2M2h	dDw
9 nPEeor Cmb	h7 1	16061	10N- 0	10N47	104N1	- M70	dDw
9 nPEeor Cmb	h6 1	1NS0h	1Nh02	1N7h0	1N74h	2M42	dDw
9 nPEeor Cmb	h0 1	1S646	1Sh21	1SN77	1SNS0	1M-	dDw
9 nPEeor Cmb	hN 1	20N0S	2NS12	2NS01	20hN4	SM0	dDw
u r noEb cmb	17S 1	6N0	660	0S0	6N0	2M1	dDw
u r noEb cmb	17S 2	1h0	2S-	210	2S6	4M7	dDw
u cdkr P	6S 2	1Sh0	1140	11N-	1142	- M1	dDw
8 GhwDGhpmw	- 1 2	27S	260	210	244	1SM1	dDw
8 nTswwcmb	- h 2	21N1- h	2106h2	216- 0-	2104S1	SM2	dDw
. Ghocmb	1S- 1	6- N1NSh	67611hh	0- 12010	6071hSN	0M1	dDw
. Ghocmb	1S- 2	- 1224N-	- ShS- - S	- S0hNN1	- Sh0767	SM2	dDw
I dsCocmb	47 1	416676h	4- - 64N0	4N772NS	447200h	NM6	dDw
I dsCocmb	47 2	14- h40	144S07	141116	14- S46	1M0	dDw
I r PCcmb	N2 1	N4	06	117	h2	22M2	dDw
I r PCcmb	00 2	S	-	S	1	10- M1	dDw
I r PCcmb	0N 2	16	21	10	1N	14M0S	dDw
I dPdnC	2N 1	1060- 1- 7	1N22NN26	1NS14476	10h021- h	1M6	dDw
I dPr p	1S0 1	h2	N-	142	1S6	2hMh	dDw
I dPr p	1Sh 1	07	h2	07	N1	11M7	dDw
I nocmb	2- 2	4272642	4- 7h167	42- 7N- 4	42N2740	1M6	dDw
I TpnCTcmb	N6 1	2444h1	26S671	270h12	274- 71	- M1S	dDw
I TpnCTcmb	NN 1	2220NS2	2- 01442	22061- 0	22h10h4	- M1h	dDw
I mPmp	- 4 1	641401	6770h7	646- hS	640NN7	1M2	dDw
Ar pecmb	17h 1	hS617h2	h226h42	1S46- 007	h7N41S-	NMS	dDw
Ar pecmb	17h 2	- h770h6	- h1h- 7-	- N2h171	- hS14- -	1M0	dDw
AGsPPcmb	2S- 1	7SS	4N-	460	4N-	- M7	dDw
AGsPPcmb	2S7 1	1210	1Sh2	1- 27	1211	hM04	dDw
AdC	11N 1	1- 004	14416	14S- -	14S04	2M1S	dDw
AdSCcmb	40 1	07N	h42	0N-	N2N	12MS1	dDw
RpsCcmb	2- N 1	417h4	4S24N	42277	41- 67	2M40	dDw

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r :J	S2Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	71 2	67S	700	070	661	1- M6h	dDw
YTTr peomb	102 1	160	2SN	107	1N-	12N3-	dDw
YTTr peomb	102 2	110	h4	Nh	1SS	14M0S	dDw
YTTr peomb	106 1	14- -	147S	17SN	1464	2M6h	dDw
YTTr peomb	106 2	hN- 2	1S71S	1S- 1S	1S210	- M41	dDw
YTTpomb	Nh 1	1171N474	12S64h- h	1- 414SS6	12- - 2466	0M11	dDw
YTTpomb	Nh 2	120N001	1260221	12- 46S1	126S1h0	1MM2	dDw
ZdCd	66 2	12h6-	12776	124hh	12602	2N3S	dDw
ZqpdnComb	hS 1	11N-	1S10	1- SN	110S	12M71	dDw
ZqpdnComb	h1 1	27N	242	27N	27-	- MM1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or TusB r:J	8 N
9 PrCTI sb DPP:t&:J	y h SM .	&dPmTmC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:usb r:J	S2. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
qPmb dCmb	20 2	2SS7	21S0	2S17	2S42	2P00	dDw
qCTb nCE	121 1	N60	N07	NSS	N40	4PN7	dDw
qpwr Cd	07 2	62	61	02	67	. P6	dDw
Bspcmb	1- 7 1	4N. - 1	72S. -	4. 67N	7S220	- P S	dDw
Bspcmb	1- 0 1	N4. N4	N7621	NN. S1	N67S2	2P4-	dDw
Br pEPPmb	. 1	1. .	2S2	1N7	1. 7	4P02	dDw
Bcwb mTG	2S. 1	74S1114	64606N-	6- SN62.	6S7. 142	. P7S	dDw
Bcwb mTG	2S. 2	- S- . S7N	- S. S. 2-	- 11SS4-	- SNSSSN	1P1.	dDw
Bpmb dCr	N1 1	20NS4	- 40. 4	- 0N00	- - 4. 1	17P41	dDw
9 sob cmb	1SN 1	7N	7N	07	64	17PS6	dDw
9 sob cmb	1S6 1	2N10	- 026	4S10	- 72S	10P0N	dDw
9 sob cmb	111 1	- S-	47-	424	- . -	2SP14	dDw
9 sPdcmb	4- 1	4726- N	471. S0	461S26	4771. S	1P11	dDw
9 sPdcmb	44 1	0762411	006- 724	00- 7710	06N0171	1P42	dDw
9 spenC	12 1	- N- 0171	41. 02S6	447- 77S	41626- 6	0P44	dDw
9 spenC	12 2	6S7- -	6- 274	6261N	621- 7	2P2.	dDw
9 GPmpdCr	- 7 1	12S- 664	12266N0	122. . 7.	122S1S-	1P10	dDw
9 GPmpdCr	- 7 2	N4. 4	N66.	NN7-	N602	2PS0	dDw
9 Gpmb cmb	72 2	1N6-	1N6S	1. 1S	1N0N	1P4.	dDw
9 nesPT	7. 2	1000	10NS	10- 0	1067	1P 0	dDw
9 nDDr p	6- 2	24- 0	22- 4	2- N4	2- 71	4P4N	dDw
&EwDpnwcmb	176 1	- 27	- 10	2N-	- SN	0P17	dDw
&EwDpnwcmb	176 2	1. S	1- -	140	170	1NP 1	dDw
Upecmb	164 1	- 7N	- SS	- 60	- 42	1SP6-	dDw
Upecmb	164 2	140	14-	14-	144	1P -	dDw
HsonPCcmb	16S 1	4SS	47S	47S	4- -	6P66	dDw
HsonPCcmb	16S 2	2- -	2- -	- - S	266	21PS2	dDw
h nPb cmb	167 1	06N- . 1.	N. - - 7NN	N. 0NN62	N7- 212-	NP61	dDw
h nPb cmb	167 2	- . 60070	- . N11- S	41S61S.	4S1N- - 2	1P S	dDw
tCocmb	117 1	74N1721	67S4- NN	66- . 4S1	62SN4- 0	1SP2S	dDw
tCocmb	117 2	. 4NN77	. 42NN7	. 0020S	. 76- - 0	1P 2	dDw
tpnC	74 2	7- 2.	7- 0.	7- - 4	7- 40	SP71	dDw
tpnC	76 2	. 07- .	. - . 64	. 2- 2S	. 46SN	2PN2	dDw
tpnC	70 2	- 460	- 6- 4	- . - 4	- 60N	6P4-	dDw
KpEDTnC	N- 1	224	266	26.	27-	1SPSS	dDw
Lr so	2S6 1	1N61	16N-	1022	1076	7P 2	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or TusB r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr :i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:usb r:J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	2S0 1	167S	1447	1411	17S2	NP61	dDw
Lr so	2SN 1	0S0.	02- 4	0S2-	0112	1P74	dDw
LdTGmb	6 1	211N767	2- 62- - 2	2- - 4. 67	2201. 74	7PNN	dDw
y sgOr wcmb	24 2	. 47N2N	. 4. N0.	. 4. 7- 0	. 4N417	SP24	dDw
y sOgsOr wr	77 2	44107	4- N60	4- 71-	4- N72	SP06	dDw
y nPEeor Cmb	. 4 1	1- . 66	14. 27	14766	144N6	- P. 7	dDw
y nPEeor Cmb	. 7 1	1666.	1062N	1067-	10- 10	- P24	dDw
y nPEeor Cmb	. 6 1	1. 140	1. N76	2S167	1. 02-	2P67	dDw
y nPEeor Cmb	. 0 1	1S746	11402	1S66-	1SN. -	4P6-	dDw
y nPEeor Cmb	. N 1	20444	2NSN0	2N764	2NS- 2	2PSS	dDw
u r noEb cmb	17S 1	60-	61-	760	61N	NP66	dDw
u r noEb cmb	17S 2	1. 0	1N-	1. -	1. 1	- P6-	dDw
u cdkr P	6S 2	720	62S	74S	762	NP. N	dDw
8 GhwDGhpmw	- 1 2	1. 2	- - -	2SN	244	- 1P6N	dDw
8 nTswwcmb	- . 2	210S40	216S7.	21- 6SN	217701	SPN2	dDw
F Ghocmb	1S- 1	77N. N. N	6471N. N	66SS74N	6214114	NP0N	dDw
F Ghocmb	1S- 2	- SN0712	- SN1NS6	- 106444	- 117274	1P0S	dDw
I dsCocmb	47 1	- 770070	427- 626	42S1. - 6	4SS444S	. P6N	dDw
I dsCocmb	47 2	1- . . 24	14- 6- S	146- 21	14- 2. 2	2P24	dDw
I r PPCcmb	N2 1	111	121	. 6	11S	11P4N	dDw
I r PPCcmb	00 2	0	-	1S	0	7SPS-	dDw
I r PPCcmb	0N 2	21	1.	2-	21	. P72	dDw
I dPdnC	2N 1	10- 22S20	1060460-	10. 1. 4N.	106- N0- S	1P0S	dDw
I dPr p	1S0 1	1SN	160	1SS	127	2. PS6	dDw
I dPr p	1S. 1	1SN	7S	27	61	6. P. N	dDw
I nocmb	2- 2	47N. - 00	47N0417	40S0761	462N11N	1P4.	dDw
I TpnCTcmb	N6 1	20000.	206627	20601.	200S41	SP2-	dDw
I TpnCTcmb	NN 1	24. N. 6S	244076N	24677. 0	240S0SN	1PS6	dDw
I mPPmp	- 4 1	021. 17	0- 27- 2	04- NS6	0- 2071	1P4.	dDw
Ar pecmb	17. 1	0N7S- . 0	. 2S. - - 7	. 2. - - 6S	N0N4- 64	. P22	dDw
Ar pecmb	17. 2	- . SNS. 4	- N012- 2	4111N. 4	- . 6- 04S	- P20	dDw
AGsPPcmb	2S- 1	- . 2	2. 2	- 07	- 7-	17P1.	dDw
AGsPPcmb	2S7 1	N7S	0. 2	010	0N6	NP7S	dDw
AdC	11N 1	27- 4	117- N	2660	77NS	. 2P4.	dDw
AdSCcmb	40 1	. 07	11. 2	0. 2	. N6	2SP. 2	dDw
5 psCcmb	2- N 1	44SS2	44646	44462	44- 0S	SP07	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPnTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdP:u sb r :J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	71 2	4S-	440	42S	42-	7P16	dDw
YTTr pe omb	102 1	27N	260	242	276	4P.N	dDw
YTTr pe omb	102 2	111	122	176	1- S	10PN4	dDw
YTTr pe omb	106 1	127S	12- -	147S	1- 11	. P2S	dDw
YTTr pe omb	106 2	. 717	. N. -	1S26S	. NN.	- P00	dDw
YTTpomb	N. 1	1SS4S0- .	11N174- 0	110N1. N4	1121202S	. PS7	dDw
YTTpomb	N. 2	127. . 16	1272006	1- S62- 2	1202. 07	2P2N	dDw
ZdCd	66 2	. 6. 0	. 0. S	. 6- -	. 0S0	SPN1	dDw
ZqpdnComb	. S 1	12017	12. . N	1- 117	12. 42	1P7.	dDw
ZqpdnComb	. 1 1	- 160	267S	2007	2N64	. P41	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T8biqC. :MwOICI:J	1
Twip:A:cqe p:dOobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	417	- 41	- 00	- 0u	aR06	OI l
d. iqe C. E	121 1	- 07	- 27	47u	- u6	10R47	OI l
dIl p. qO	07 2	4	7	-	4	27RSS	OI l
Bwldpe	1- 7 1	2a07	267S	2aSa	2u47	6RS4	OI l
Bwldpe	1- 0 1	72- 7	721u	7S1u	7170	2R 4	OI l
BplE8dpe	a 1	44	4a	- a	44	11R42	OI l
Bdqe biG	2Sa 1	6106110	620aaa6	7a71a0a	61- 6S- S	2R0-	OI l
Bdqe biG	2Sa 2	2au0- SS	- 1S0- 62	- S61a- a	- S722SS	1Raa	OI l
BlCe q p	u1 1	114- S	1S12a	uua7	1S171	12R4a	OI l
9 wne dpe	1Su 1	1-	21	7S	2u	0SRua	OI l
9 wne dpe	1S6 1	- 7- 4	- 442	- S07	- - 7S	0R24	OI l
9 wne dpe	111 1	- 04	- 60	2a-	- 47	12Ra7	OI l
9 w8Odpe	4- 1	12- 1	1- 11	12- 1	127u	- R60	OI l
9 w8Odpe	44 1	74- 70	76S17	7442-	74a- 2	1R01	OI l
9 wlr C.	12 1	- u- 1SSa	411a2a6	4477Sa6	41- 71- 4	0R77	OI l
9 wlr C.	12 2	7u742	6S610	7a446	7a7- 7	1R07	OI l
9 G8Clq p	- 7 1	0au- 64	0u7u4S	00170a	0u7261	1R01	OI l
9 G8Clq p	- 7 2	7726	7S26	4uSa	712S	0R1u	OI l
9 GlCe dpe	72 2	- aa4	- a00	- u- 4	- a- 7	2R24	OI l
9 Cr w8	7a 2	4u-	- u-	42-	4- S	11R01	OI l
9 Ct t pl	6- 2	14a-	176-	14SS	14u6	7R72	OI l
TEl t lCl dpe	176 1	u	42	7S	- -	66R17	OI l
TEl t lCl dpe	176 2	1-	20	10	1a	- 6R07	OI l
Ulr dpe	164 1	127	42	7u	07	7uR0a	OI l
Ulr dpe	164 2	0	7S	1S	22	1SuR7S	OI l
HwnC8q dpe	16S 1	u-	127	07	a4	2uR 6	OI l
HwnC8q dpe	16S 2	12S	1- 0	110	124	uR61	OI l
h C8e dpe	167 1	u42a4aa	uu27a- S	u0- 4SuS	u66- 10S	2R4S	OI l
h C8e dpe	167 2	- a0766-	- a70- a4	- auaaa0	- a04- 71	SR41	OI l
& ndpe	117 1	62a- - ua	6416776	62u1u27	6- - S7aS	1R1u	OI l
& ndpe	117 2	a- S7- 6	a2S670	a4- 141	a- 1447	1R21	OI l
&C.	74 2	- 2001	- 2406	- - - - -	- 2u6S	1R -	OI l
&C.	76 2	7aSa1S	6SSu4-	6S44- 1	7au02u	1R10	OI l
&C.	70 2	171u1	1747-	14u72	17162	1Rau	OI l
KIEt iC.	u- 1	264	264	2- 4	274	6Rd-	OI l
Lpwn	2S6 1	2747	2- 47	240u	2476	4R17	OI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	2S- 4	1a2u	21ua	2S7S	6R41	CI I
Lpwn	2Su 1	a072	a770	a6S0	a6- a	1RS7	CI I
LqiGdpe	6 1	2161uS1	22022u1	22- 6- aS	222- 4a1	2R7-	CI I
y wg. pl dpe	24 2	a60	1142	u- -	au1	17R0a	CI I
y w. gw. pl p	77 2	2u24	2a44	2070	2u41	- R -	CI I
y C8Er np. be	a4 1	17S	207	- 27	27S	- 6RS6	CI I
y C8Er np. be	a7 1	2SS	110	27S	1ua	- 7R66	CI I
y C8Er np. be	a6 1	227	410	242	2a4	- 6RS6	CI I
y C8Er np. be	a0 1	1Su	110	07	1SS	22RS7	CI I
y C8Er np. be	au 1	2SS	- 27	- 7S	2a2	20R77	CI I
mpOnEe dpe	17S 1	0-	0-	7-	60	10R 2	CI I
mpOnEe dpe	17S 2	2-	- S	- -	2a	10R6-	CI I
mqCkp8	6S 2	1- 1S	12uS	1- S0	12aa	1R20	CI I
NGCI t GCIbI	- 1 2	242	207	242	27-	0R61	CI I
NCiwI l dpe	- a 2	1- - S0	1- 717	1- - 2-	1- - u2	SRu0	CI I
F GCndpe	1S- 1	6- - S1S2	6- 76u2S	62aSS6u	6- 2766-	SR7-	CI I
F GCndpe	1S- 2	- S4aa16	- SS6212	- Saa- a0	- S71u42	1R7-	CI I
DOw. ndpe	47 1	4S- 1720	41- S- - 1	41Sa2- 0	4SaS- 67	1R20	CI I
DOw. ndpe	47 2	1421u-	14S- 27	144004	142420	1R70	CI I
Dp8p. dpe	u2 1	6	74	- S	6	04SR26	CI I
Dp8p. dpe	00 2	S	S	0	2	10- R21	CI I
Dp8p. dpe	0u 2	1a	1a	1-	10	2SRu	CI I
Dq8qC.	2u 1	2422u-	2- a100	2- 0- 67	2- a6Su	1RS4	CI I
Dq8vpI	1S0 1	7u	1Su	1Su	a2	- 1R7S	CI I
Dq8vpI	1Sa 1	27	- -	7S	- 6	- 7R27	CI I
DOndpe	2- 2	0- 02u	02401	0- 062	0- - 2S	1RSS	CI I
DiIC. idpe	u6 1	uSu	0a2	07S	0u-	- Ru4	CI I
DiIC. idpe	uu 1	- 7- 4	- 6u4	- 726	- 7u1	2R4a	CI I
Db8bI	- 4 1	2a21a7	2a260u	2u6- - 1	2aS4S1	1R22	CI I
cpIr dpe	17a 1	ua64aSa	ua7647a	uu0u21u	ua- - 1a7	SR74	CI I
cpIr dpe	17a 2	- u2a0- 7	- u2172-	- uu240-	- u44700	SRu6	CI I
cGw8dpe	2S- 1	- - -	2a2	- 10	- 14	6R6u	CI I
cGw8dpe	2S7 1	6u-	607	7Su	622	17Ru0	CI I
cq	11u 1	267S	2742	27a2	27a7	2RSa	CI I
cqiw. dpe	40 1	1142	1- u-	1227	127S	aRu2	CI I
5 Iw. dpe	2- u 1	1SS	127	60	a0	- SR1S	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t plwiCI:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T 8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	6S	0S	uS	0S	14R2a	Qt l
Yiiplr dpe	102 1	42	a2	42	7u	4aR4u	Qt l
Yiiplr dpe	102 2	S	2u	61	- S	1S- R26	Qt l
Yiiplr dpe	106 1	12Su	1107	1127	110S	- R7a	Qt l
Yiiplr dpe	106 2	a006	1S71S	1S- 74	1S21-	- R0a	Qt l
Yiildpe	ua 1	11- a0066	12SS6016	111a012a	117- - u0S	- R36	Qt l
Yiildpe	ua 2	12467a-	1271S0u	126471u	1274S6-	SR04	Qt l
Zq O	66 2	2440	2- 0S	24u4	24- 4	2Ru	Qt l
ZdOC. dpe	aS 1	7SS	7a2	427	7S6	16R71	Qt l
ZdOC. dpe	a1 1	160	07	127	122	- 0R77	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c cmb	20:2	1S2	1S2	1S2	1S2	SN8S	dDl
q. Tcb C. h	121:1	42	60	42	-S	2NNN0	dDl
qpl r . cl	0-:2	6	2	7	4	-6N00	dDl
Bwpcmb	17-:1	42	-N	-S	-S	16N06	dDl
Bwpcmb	170:1	-S	N7	-S	61	71MS	dDl
Br ph8cmb	:1	77	44	21	72	74N0S	dDl
Bdl b mTE	2S :1	640 6N7	6610 42	6-1S4N6	6-76S70	1M11	dDl
Bdl b mTE	2S :2	724 N76	7224067	71270S7	71 474	2N8	dDl
BpCb c r	N1:1	-71N	4 47	-S74	-S N	7NN4	dDl
Fwob cmb	1SN:1	-4	0-	77	-4	7NN46	dDl
Fwob cmb	1S6:1	76S1	7N60	7674	70S1	7M7	dDl
Fwob cmb	111:1	740	7-1	7-0	7-2	1N70	dDl
Fw8lcmb	47:1	2-	24-	270	240	4N76	dDl
Fw8lcmb	44:1	7- 26	767 S	7-04-	76S2S	SM2	dDl
FwpeC.	12:1	244-711	242N261	247S217	2474- -	SN7N	dDl
FwpeC.	12:2	2 664	2 S 6	2 -S-	2 422	1N8S	dDl
FE8Cpc r	7-:1	462- 6	44NN-7	47N120	44 N-N	2N07	dDl
FE8Cpc r	7-:2	7174	71 2	2-SS	2 42	17N84	dDl
FEpCb cmb	-2:2	1140	121S	N7	1117	1SMS	dDl
FCew8T	- :2	70	27	70	72	27MS	dDl
FCDDr p	67:2	6N7	667	007	0S0	NN2	dDl
&hl DpCl cmb	1-6:1	10	N	S	N	1SSN82	dDl
&hl DpCl cmb	1-6:2	7	S	7	2	N6N0S	dDl
Upecmb	164:1	0-	-N	-N	64	1-N86	dDl
Upecmb	164:2	27	77	70	71	22N71	dDl
GwoC8c cmb	16S:1	142	1SS	N7	1SN	20N07	dDl
GwoC8c cmb	16S:2	170	S	147	127	27M6	dDl
HC8b cmb	16-:1	S-6 11	716-61	SN20-N	1-2S00	1M6	dDl
HC8b cmb	16-:2	42N16N2	4166NS0	7 -40	414 74-	7M42	dDl
t. ocmb	11-:1	6622 72	6N-0-64	66071S2	6010N66	1NN4	dDl
t. ocmb	11-:2	1S7-S72	1S116-S	-N7S2	1SS1661	7M7	dDl
tpC.	-4:2	7N	761	7-6	76	4NN-	dDl
tpC.	-6:2	2 N4	2N-S	2 10	2 10	2N2	dDl
tpC.	-0:2	N7	1S6	1S6	N	17N80	dDl
KphDTC.	N7:1	2 S	241	2-0	267	N44	dDl
Lr wo	2S6:1	077	6N	622	6N2	NN21	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	677	6S6	644	62N	7M1	dDl
Lr wo	2SN:1	2 N4	204-	2077	2N21	-N81	dDl
LcTEcmb	6:1	240766N	24S1-2S	27-N67	2411206	2M41	dDl
9 wg. r l cmb	24:2	1SN	1SS	60	2	24N8-	dDl
9 w. gw. r l r	- - :2	N8	-0	00	01	10M04	dDl
9 C8heor . mb	4:1	12-	2SS	2SN	10N	2-M12	dDl
9 C8heor . mb	- :1	77	-S	-S	44	21M06	dDl
9 C8heor . mb	6:1	1SN	1-S	1SN	122	1 M0N	dDl
9 C8heor . mb	0:1	10	2	10	42	1S7M1	dDl
9 C8heor . mb	N:1	60	60	60	60	SM8S	dDl
u r Cohb cmb	1-S:1	0	0	S	4	N6M0S	dDl
u r Cohb cmb	1-S:2	7	S	S	1	107M21	dDl
u cdkr 8	6S:2	-7	-7	40	-1	0M12	dDl
3 ECl DECpm	71:2	1 2	20-	160	211	26MN0	dDl
3 CTWl cmb	7 :2	11SNS	1S -4	1S07N	1S 24	1M1N	dDl
y ECocmb	1S7:1	60S6614	6NN62 -	6044SNS	600N 0	1M4S	dDl
y ECocmb	1S7:2	77NN666	7200NS7	711 4S2	7261 -0	4M1-	dDl
l dw. ocmb	4-:1	472 6-2	44-0077	4761N74	47N7S07	1M12	dDl
l dw. ocmb	4-:2	1- -264	1-11N1	144S1-	1-S1-7	7M0	dDl
l r 8 . cmb	N2:1	:47	:	:1	:1N	:12-M6	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1S	14	1	14	71M46	dDl
l c8dC.	2N:1	1N0N6N	1N244S	1N1141	1N7N10	1M4	dDl
l c8vr p	1S0:1	142	142	0-	11	72M27	dDl
l c8vr p	1S :1	42	N7	2	02	70N8	dDl
l Cocmb	27:2	2N42N	2N04-	2 664	2N 46	2M22	dDl
l TpC. Tcmb	N6:1	4SN	-0-	4-S	40N	1NM1-	dDl
l TpC. Tcmb	NN:1	1142	12SN	0N7	1S4-	21MN	dDl
l m8mp	74:1	7SSS7-	2 N6 0	7S7044	7SSN2-	SMN0	dDl
Ar pecmb	1- :1	700-72	46-S21	- -1200	46461S	SM2	dDl
Ar pecmb	1- :2	422 4-1	4S1N662	7 S160S	4S4 2N	4M1S	dDl
AEw8cmb	2S7:1	277	72-	2N7	2N1	16M76	dDl
AEw8cmb	2S-:1	-42	-60	02-	611	16M20	dDl
Ac	11N:1	1177	11-N	1N6N	17N0	7SM8N	dDl
AcTw. cmb	40:1	10-	142	1 2	16	1-N82	dDl
5 pw. cmb	27N:1	42	2-	2-	71	71M1S	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Vw. wocmb	-1:2	1S	10	1S	12	71MS	dDl
YTTr pecmb	102:1	77	-S	0-	-7	7 N04	dDl
YTTr pecmb	102:2	22	77	-6	70	4-MN4	dDl
YTTr pecmb	106:1	1277	11 2	11N7	12S7	2M27	dDl
YTTr pecmb	106:2	11SS-	11S 4	1S2-4	1S0N4	4M2N	dDl
YTTpcmb	N :1	12212-1N	12402216	12407614	127N6116	1M21	dDl
YTTpcmb	N :2	144N116	14S0-NS	120-4S	1700S7-	6M6	dDl
Zc d	66:2	117	117	177	12S	M02	dDl
ZqpdC. cmb	S:1	7 2	-2-	4N7	460	14M02	dDl
ZqpdC. cmb	1:1	1SS	0-	N7	N6	14M0N	dDl

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 2SB:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l T RdNpamI e pas	S77LF: UMd

3l l l e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9 pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-0-	161-	1 --	101-	12M1u	dDP
q. Tde C. h	121J1	16 u6	1072u	104 -	1020S	1M1S	dDP
qlPp. cd	0-J2	2--	260	242	2--	4M1	dDP
Bl l dbe	17-J1	1uS12	1 214	1 122	1u0u7	7M6	dDP
Bl l dbe	170J1	72264	776S1	77241	77S7-	2M3	dDP
BplhNbe	J1	22-6	224S	216S	221	2M12	dDP
BdPe bTE	2S J1	6-707-	64-u7	6-4u14u	6-14676	SM0-	dDP
BdPe bTE	2S J2	7227 0-	7102 S7	772--4u	724SuSu	2M4S	dDP
BlCe c p	u1J1	44S1	44-	4474	4471	SM66	dDP
Fl oe dbe	1SuJ1	27u	22-	710	26S	1 M14	dDP
Fl oe dbe	1S6J1	41-	77-1	41u4	7u u	12M10	dDP
Fl oe dbe	111J1	2u12	264	24u4	264	6M1	dDP
Fl Ndbe	47J1	1277	124 6	121u6	1274S	1M26	dDP
Fl Ndbe	44J1	22 S	272u47	272Su2	271741	SM6	dDP
Fl lr C.	12J1	27472S1	27-76 4	27--0-2	27-Suu2	SM2	dDP
Fl lr C.	12J2	2 221	2u6S7	2uS-2	2u626	2M34	dDP
FENCl c p	7-J1	7u42 1	701112	766122	707u42	2M1	dDP
FENCl c p	7-J2	2010	26SS	20-	26 2	7M3-	dDP
FElCe dbe	-2J2	626u	62Su	6-S-	6720	2M4u	dDP
FCr l NT	- J2	4u44	4uu1	-S0u	4 74	2M4	dDP
FCDDpl	67J2	u07	uu47	11S	uu 0	2M1-	dDP
&hPDlCPbbe	1-6J1	77	10	u	1	6-M10	dDP
&hPDlCPbbe	1-6J2	7	1S	S	4	114M0S	dDP
Ulr dbe	164J1	42	2	42	-u	4 M4u	dDP
Ulr dbe	164J2	4S	77	2S	71	72M07	dDP
Gl oCNdbe	16SJ1	60	42	u7	64	72M17	dDP
Gl oCNdbe	16SJ2	120	11S	147	120	17M16	dDP
HCNdbe	16-J1	441406	701011	1712uu	714u2-	1M0-	dDP
HCNdbe	16-J2	4121S-7	41-4471	427u 7	4101404	1M46	dDP
t. odbe	11-J1	6014724	6u7u021	60 --11	60u2u-2	SM7	dDP
t. odbe	11-J2	062 1	uu2S1	1SS41u7	u --u	1M41	dDP
tlC.	-4J2	2426S	24u00	2-44S	24u-	2M70	dDP
tlC.	-6J2	47u67S	4461-6	4-76u2	4461-6	1M3	dDP
tlC.	-0J2	1S 20	1S -4	117	11S 7	2M7	dDP
KlhDTC.	u7J1	2u0	274	260	267	1SM77	dDP
Lpl o	2S6J1	u6-7	u60-	u-0S	u677	SM0-	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl RdNpamle pas	S77LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0041	0204	0-S2	0-S6	7M11	dDP
Lpl o	2SuJ1	74446	74-7-	7417-	74702	SM01	dDP
LdEdbe	6J1	24Su 2u	2427272	240SS0	2474SuS	1M71	dDP
9l g. pPdbe	24J2	1S7416	1S7-60	1S-uu4	1S42u	1M77	dDP
9l . gl . pPp	- - J2	144S	1-6S	1070	1-0	M4-	dDP
9 CNr op. be	4J1	10 -4	1u6uS	10u -	1u106	2M4S	dDP
9 CNr op. be	- J1	216-1	22220	22011	221 6	2M7	dDP
9 CNr op. be	6J1	24217	2-S4u	2-1 S	24u10	2M17	dDP
9 CNr op. be	0J1	12uu1	14441	17072	176u-	-M01	dDP
9 CNr op. be	uJ1	7-S0u	7-2u0	7- 22	7-42	1M24	dDP
mpCohe dbe	1-SJ1	17	17	17	17	SM3S	dDP
mpCohe dbe	1-SJ2	7	7	S	2	u6M0S	dDP
mdkpN	6SJ2	1440	167S	1667	1-uS	0M7u	dDP
3ECPDECIbP	71J2	2Su	277	2Su	210	6M66	dDP
3CTl PPdbe	7 J2	020SS	042SS	0-746	04Su2	1M0	dDP
y ECodbe	1S7J1	6uS2 24	6u-2014	6u260-S	6u20467	SM76	dDP
y ECodbe	1S7J2	71uu066	721467-	772uu 7	7244S u	2M7S	dDP
: dl . odbe	4-J1	47- - uu7	4-S62-1	470224u	4411461	1M10	dDP
: dl . odbe	4-J2	14u41u	14uu07	1-40S4	1-S66-	2M77	dDP
: pNp. dbe	u2J1	u20	u 0	u S	u02	4M41	dDP
: pNp. dbe	00J2	4S	77	10	7S	4SM3-	dDP
: pNp. dbe	0uJ2	1S	11	1S1	11S	uM22	dDP
: dNdC.	2uJ1	24-0u-	27002u	24S-40	2417-4	1M0	dDP
: dNpl	1S0J1	1S4uu	11-14	12S22	11741	6M1	dDP
: dNpl	1S J1	1S S-	1Su46	1S001	1Su41	SM02	dDP
: Codbe	27J2	2S0 06	212762	2S 707	2S S4	1M30	dDP
: TC. Tdbe	u6J1	72SS	7S2-	7S-S	7S 2	7M36	dDP
: TC. Tdbe	uuJ1	27S2u	22 S7	22-44	22u2-	1M1S	dDP
: bNbl	74J1	7S7u6	7S0-00	7S4 00	7S-404	SM02	dDP
Apl r dbe	1- J1	41 4-4	4S0727	414141	41767	SM36	dDP
Apl r dbe	1- J2	7 0-u77	4S10111	41u -27	4S6Su22	2M0	dDP
AEl NNdbe	2S7J1	70	0u0	0	S1	1M32	dDP
AEl NNdbe	2S-J1	274- -	22012	27-uS	2724	2M32	dDP
Ac	11uJ1	17-S	1Su7	12-S	122u	1SM0	dDP
AdT. dbe	40J1	60-2	6- 7	62-2	6-72	7M1	dDP
5ll . dbe	27uJ1	727u4	72606	7710u	72046	1M27	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 2SB:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 2S	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl Rdpaml e pas	S77LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	007	1SSu4	1S410	1SS 1	7M1	dDP
YTpIr dbe	102J1	77	60	1SS	60	-SM3S	dDP
YTpIr dbe	102J2	2u	2u	44	77	2uM0	dDP
YTpIr dbe	106J1	17u7	170-	17-u	1702	SM7	dDP
YTpIr dbe	106J2	1S-u2	1S 72	1Su00	1S0 0	1M04	dDP
YTTdbe	u J1	122Su01	12-46S14	127u0710	127uS6u7	1M76	dDP
YTTdbe	u J2	172727	17S042u	17 6 1	1742-2	7M6	dDP
Zc d	66J2	261S	206S	2-uS	26-S	7M04	dDP
ZddC. dbe	SJ1	17	1-S 2	14066	1461	7M4	dDP
ZddC. dbe	1J1	7442	7426	7274	7760	7M4	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r:	S- 4q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	614N- 2	6Shh0J	611026	61210N	SM4S	dDw
qCTb nCE	12171	42Sh	4J- 4	44h-	4412	4NS1	dDw
qpwr Ccd	0J72	42h2	4Sh0	4211	42SS	2M-	dDw
Bspcmb	1- J71	40JS12	404- hS	40hhS0	4064- 0	SM0-	dDw
Bspcmb	1- 071	N2hS0J	N- SS6J	N46- 1-	N- J1J1	1M16	dDw
Br pEPmb	h71	2J62	2J60	24h4	2J41	1M62	dDw
Bcwb mTG	2Sh71	6N- 0JS6	606JN- 6	60ShN41	6001S61	SM1J	dDw
Bcwb mTG	2Sh72	- 1hhSS1	- 1h41J2	- - 126h6	- 2- J2N-	2NS0	dDw
Bpmb cCr	N171	0- 44	N21h	N061	N1SN	NNM2	dDw
5 sob cmb	1SN71	2J4	- 60	2S4	20J	- SM20	dDw
5 sob cmb	1S671	4- J1	44N4	4226	4- J4	2M10	dDw
5 sob cmb	11171	2JJ0	2- 2J	2406	24J-	4NMS	dDw
5 sPlcmb	4- 71	- 16- hh	- 2S2- 0	- 2J1S-	- 2SJ0h	1M16	dDw
5 sPlcmb	4471	J- hS- 2S	JJ- 4- 1N	J- 4S0- 6	J4210h1	1MMJ	dDw
5 spenC	1271	6- S- 0J0	60J0002	6NSN402	662- - - 4	4M2S	dDw
5 spenC	1272	NJ- 6J	N4Jh-	N41S0	N46NN	SM0J	dDw
5 GPmpcCr	- J71	h6h6S04	12NN6J14	1J- SNN- 6	126- S40J	22M2h	dDw
5 GPmpcCr	- J72	14SJ2S	1J2244	1JN1SN	1JS2h1	JM16	dDw
5 Gpmb cmb	J272	- 0- 4h	- 066S	- 6061	- 02J6	1M2-	dDw
5 nesPT	Jh72	4NS- 0	4h2NJ	4NSh4	4N402	1M4J	dDw
5 nDDr p	6- 72	1064S6	1006hN	102- Sh	10J401	1M0S	dDw
&EwDpnwcmb	1J671	60h6J	60h4h	0SN22	6Nh12	2M4S	dDw
&EwDpnwcmb	1J672	2NJ- 0	2NJN4	2NN1N	2N646	SM2	dDw
Fpecmb	16471	J- hJ2	J6NNS	J4NN1	JJ2- N	2M01	dDw
Fpecmb	16472	2- 1N0	22- 02	224S2	226J4	2NS4	dDw
HsonPCcmb	16S71	6S00-	6- hh6	616- J	621- J	2M6h	dDw
HsonPCcmb	16S72	2h- N6	2h- 06	2hJ6h	2h444	SM10	dDw
y nPb cmb	16J71	h6hJ122	h4N0hSN	h- 6N06-	hJ10264	1M04	dDw
y nPb cmb	16J72	416S2- 1	41- - h6J	4- 1- 012	42S26- 6	2M1	dDw
tCocmb	11J71	0S240JJ	6h6h10J	6h22NJJ	6h02262	SM0-	dDw
tCocmb	11J72	hhS6S1	h66JJS	1S26SJJ	hh44S2	- NS1	dDw
tpnC	J472	- 1- 220J	- 11- 1h-	- SJ2Sh2	- Shh1N0	1MJ	dDw
tpnC	J672	J6SNJSSS	JJJN0S14	JJ162621	JJ611J4J	SMM-	dDw
tpnC	J072	14216N-	14- 2602	14SS64-	141N- - -	1MJ	dDw
KpEDTnC	N- 71	- S2	- - J	- 20	- 22	JM2h	dDw
Lr so	2S671	40N40J	406420	4NNJJ-	4N11J2	1MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tusb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP usb r:	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- hhNSS	4S1S- S	4S206-	4S11hN	SM10	dDw
Lr so	2SN71	1NhSh- -	1Nh- 0- J	1h124- N	1NhhS- J	SM02	dDw
LdTGmb	671	244h10S	2- h622S	2422J1-	24226- 4	1NSh	dDw
9 sgOr wcmb	2472	N1001S	NSh140	N1114-	N12660	SMJJ	dDw
9 sOgsOr wr	JJ72	N4211-	N2h04h	N100N2	N2hNN1	1M40	dDw
9 nPEeor Omb	h471	264J1	20S44	20244	26h1-	1M-	dDw
9 nPEeor Omb	hJ71	J26N	JJh-	J026	JJ2h	4M20	dDw
9 nPEeor Omb	h671	hh12	hNhJ	1S101	hhh-	1M4	dDw
9 nPEeor Omb	h071	- - 60	- 606	- 442	- 4hJ	4M0S	dDw
9 nPEeor Omb	hN71	hS0N	hSS-	h2S-	hShJ	1M1	dDw
u r noEb omb	1JS71	1146N6	11J- JN	116- - -	11J4Jh	SM02	dDw
u r noEb omb	1JS72	- 62- 6	- 66JS	- 6620	- 6JS4	SM04	dDw
u dkr P	6S72	2J406	2J- 26	240hN	2J2SS	1M41	dDw
8 GhwDGhpmw	- 172	N- 6h	0J00	N2h4	NSNS	JM41	dDw
8 nTswwcmb	- h72	42h- N2	42JJS2	421h6h	42J61N	SMM0	dDw
. Ghocmb	1S- 71	6h0Nhh4	6N- 2- 40	6N- 12J1	6NNSN64	1M24	dDw
. Ghocmb	1S- 72	- 1J10N-	- 16h42J	- - - N2SJ	- 21hNS4	- M2S	dDw
I dsCocmb	4J71	46JSSh-	4Jh4JJ0	44N4hS4	4J06J1N	1MM4	dDw
I dsCocmb	4J72	1JS6N1	1JS1J6	1J61hN	1J2- 4J	2M2S	dDw
I r P Ccmb	N271	244	1NJ	1Nh	2S6	1JM10	dDw
I r P Ccmb	0072	1JS	120	1J-	14-	1SM14	dDw
I r P Ccmb	0N72	11-	1S-	112	1Sh	JMS4	dDw
I dPdnC	2N71	14J666JN	140JN- 1h	14N2S6N2	1401J22S	SM1S	dDw
I dPr p	1S071	2N10	20Jh	20Sh	2061	1M16	dDw
I dPr p	1Sh71	2410	2- N4	20- 4	2J11	0M6h	dDw
I nocmb	2- 72	6N1- 4	6N646	6NS6N	6N2N-	SM46	dDw
I TpnCTcmb	N671	2h- SJ4	2NN66S	2NNN66	2hS1h-	SMMJ	dDw
I TpnCTcmb	NN71	261Jh26	2624hSS	26J2S10	26- Sh4N	SM01	dDw
I mPmp	- 471	- - 21h6	- 2014-	- 2S0- J	- 266h1	1M06	dDw
Ar pecmb	1Jh71	1SSNSNJ4	hN- 04NS	h020- hN	hNN1h1S	1MM-	dDw
Ar pecmb	1Jh72	4S- 102N	4Sh4J06	42NhhSh	41- N0- N	- M2J	dDw
AGsPbmb	2S- 71	24Sh	2- 60	2- - 4	2- 0S	1Mlh	dDw
AGsPbmb	2SJ71	J- S1	J6S1	JJ4-	J4N2	2M1S	dDw
AdC	11N71	N6hJ	N6J-	h14J	NN- 1	- MSh	dDw
AdSCcmb	4071	hNJ6-	1SSN21	1S1NJ2	1SS412	1M60	dDw
RpsCcmb	2- N71	0016S	0N1N-	0h020	0N- J6	1M6J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r :	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0SSNS	6h10-	6N0- 1	6h- 2N	SM1h	dDw
YTTr pe omb	10271	1JN- J	1JNJ2	1616S	1Jh4h	1M1J	dDw
YTTr pe omb	10272	046h	0014	00SN	06- S	1MM-	dDw
YTTr pe omb	10671	11014	12SS6	12214	11h0N	2M1S	dDw
YTTr pe omb	10672	16S6S	1J426	161h4	1JNh-	2MIN	dDw
YTTpomb	Nh71	1- S6- N16	1- 2- 2- 4N	1- S1J2- 1	1- 1S- 0hN	SMM0	dDw
YTTpomb	Nh72	1- hN- 04	144h106	1JS1J21	144h6hS	- M6	dDw
ZdCd	6672	h1104	hS0J2	NNNh6	hS204	1M4	dDw
ZqpdnComb	hS71	6- - S-	6- N- N	6J4h6	6421-	1M0N	dDw
ZqpdnComb	h171	141hh	141h1	1- h24	141SJ	1M1	dDw

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP u sb r:	S- Jq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6- S- 1N	6- - 40h	61h020	620N41	1M1J	dDw
qCTb nCE	12171	4626	4Jh-	4- N4	4J- 4	2NMh	dDw
qpwr Ccd	0J72	42SN	4410	42- S	42NJ	2M0N	dDw
Bspcmb	1- J71	4N2J4S	400- h4	40h6JS	40hN61	SM14	dDw
Bspcmb	1- 071	N41- J6	N4h1h0	NJh0hS	NJS114	1N8h	dDw
Br pEPmb	h71	2JS6	2Jh2	2J22	2J4S	1NMS	dDw
Bcwb mTG	2Sh71	6N0h2J-	6hNh446	6NJ1ShS	6hS6Jh6	1N86	dDw
Bcwb mTG	2Sh72	- 46- 11-	- SJ02hJ	- - 20h- -	- 2N20NS	6M2h	dDw
Bpmb cCr	N171	04NJ	NSN6	NJ1h	NS- S	6M40	dDw
5 sob cmb	1SN71	246	2JN	2J4	2J-	2M12	dDw
5 sob cmb	1S671	4J26	4NJh	42Jh	4J4N	6M01	dDw
5 sob cmb	11171	2422	24h0	2- N2	24- 4	2M41	dDw
5 sPlcmb	4- 71	- 2- N0J	- 24062	- 26061	- 2J1- -	SM4J	dDw
5 sPlcmb	4471	JJ426- N	J- 0N1h1	JJSSh24	J40- h1N	1M16	dDw
5 spenC	1271	66- SNS4	6h0NNh4	0S22hN2	6N00J6S	- M12	dDw
5 spenC	1272	NhS0N	N000h	N06J4	NN10S	SMNh	dDw
5 GPmpcCr	- J71	10SJN04-	2S0- 604N	220h6N0J	2S1h04JJ	14Mh	dDw
5 GPmpcCr	- J72	1hS- 64	1h4- 60	2SSh0h	1hJ2- 0	2M0J	dDw
5 Gpmb cmb	J272	- N44N	- 0h0S	- 6hJ4	- 00h1	2N82	dDw
5 nesPT	Jh72	JSh41	J141h	4h- Jh	JSJ0-	2M1-	dDw
5 nDDr p	6- 72	1006hJ	1NSS01	10611-	100hJh	1M12	dDw
&EwDpnwcmb	1J671	6N2Sh	6h40-	6N242	6N641	1N8J	dDw
&EwDpnwcmb	1J672	- S1N1	- SJh2	2hJh-	- S122	1M00	dDw
Fpecmb	16471	J40- h	J4- 4J	J64N0	JJ1hS	2N80	dDw
Fpecmb	16472	2- NNJ	2- J0N	220- 6	2- 4SS	2M14	dDw
HsonPCcmb	16S71	Jh020	62h16	61h62	61J- J	2M06	dDw
HsonPCcmb	16S72	- S22N	- S- 02	2h4Jh	- SS2S	1M0-	dDw
y nPb cmb	16J71	h0- 2JN1	h0N12S1	hh- J062	hN16J1J	1N8N	dDw
y nPb cmb	16J72	4- - - NN-	- NhS6J6	4- SJ4- 0	41066Jh	JM14	dDw
tCocmb	11J71	0- 16- 0N	02S- 6- -	01NNS60	02- 6S26	SM10	dDw
tCocmb	11J72	1S2N- S4	h2641N	1S16J00	hhS4- -	JM0-	dDw
tpnC	J472	- 12- NJJ	- 166N60	- 1Sh106	- 1- - 2hh	SM16	dDw
tpnC	J672	J0026- 26	J606NJ0-	J6122S- 2	J6N02- 11	1M12	dDw
tpnC	J072	14h66h2	1404004	14- - 4J0	146N- S0	2M1h	dDw
KpEDTnC	N- 71	- - h	- 21	- 42	- - 4	- Mh	dDw
Lr so	2S671	4N0604	4Nh004	4h1h4-	4Nh0h0	SM44	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	4S0J2J	41Sh- 6	411S1N	4ShN26	SM4h	dDw
Lr so	2SN71	1h2NJ01	1h- S266	1h22J12	1h20116	SM21	dDw
LdTGmb	671	2J2hh- J	2JNSh6J	2J66SJ6	2JJNhN6	1N8-	dDw
9 sgOr wcmb	2472	N4SS6J	N4SS- h	N14J01	N- 1JJN	1M00	dDw
9 sOgsOr wr	JJ72	N4NJJ1	N46N4h	N- 0NhJ	N444- 2	SM6N	dDw
9 nPEeor Omb	h471	26h6S	20SS2	206N6	20216	1M1S	dDw
9 nPEeor Omb	hJ71	646S	Jh1S	Jh06	611J	4M11	dDw
9 nPEeor Omb	h671	1S1S4	1S246	1SJ01	1S- S0	2M12	dDw
9 nPEeor Omb	h071	- NSh	- 0S1	- 460	- 6Jh	4M00	dDw
9 nPEeor Omb	hN71	h4J-	h62h	hJ4J	hJ42	SM12	dDw
u r noEb omb	1JS71	11N2Jh	11N2J0	11N4hh	11N- - N	SM12	dDw
u r noEb omb	1JS72	- 0J- -	- 0N- 4	- 0242	- 0J- 6	SM0h	dDw
u dkr P	6S72	2Jh04	2641N	2J600	26S2-	1M4-	dDw
8 GhwDGhpmw	- 172	N444	N- N6	0h61	N264	- M1h	dDw
8 nTswwcmb	- h72	4- 4201	4- 06S4	424SS-	4- 1hJh	1M64	dDw
. Ghocmb	1S- 71	0112204	02- 0406	0- JN60-	02- 6141	1M0S	dDw
. Ghocmb	1S- 72	- - 0J- N1	- S4J1- N	- - hS- N1	- 20S- SS	JM10	dDw
I dsCocmb	4J71	40442h4	40S0- N2	40h6J4J	404h4S0	SM14	dDw
I dsCocmb	4J72	1J0- 40	142N- -	1J4J6h	1J1JN-	JN8N	dDw
I r P Ccmb	N271	1N0	2SJ	221	2SJ	NM2J	dDw
I r P Ccmb	0072	120	1JS	140	141	NM14	dDw
I r P Ccmb	0N72	h6	114	h4	1S1	1SM10	dDw
I dPdnC	2N71	140hNh1-	1JS- N600	1464- 24S	14N26h4-	1M4	dDw
I dPr p	1S071	2N10	20Sh	2NSS	200J	2M1S	dDw
I dPr p	1Sh71	2NN4	202J	2NN4	2N- 1	- M4-	dDw
I nocmb	2- 72	6hJS0	6h060	6NS2J	6h1SS	1M6	dDw
I TpnCTcmb	N671	2h4J- J	2h2JJ4	2h4h16	2h4SS2	SM4-	dDw
I TpnCTcmb	NN71	26N0N61	26N464S	26h66- N	26Nh01-	SM4-	dDw
I mPmp	- 471	- 2NSNh	- 22600	- 21NhJ	- 2422S	1N84	dDw
Ar pecmb	1Jh71	hN001- J	1S4ShJJh	hN- NS24	1SS41J0-	- M1N	dDw
Ar pecmb	1Jh72	42hN260	- N0- h6h	4240N46	414SS20	JN0S	dDw
AGsPbmb	2S- 71	2J2J	21N4	202J	240N	11N86	dDw
AGsPbmb	2SJ71	Jh00	JN4-	62- J	6S1N	- M1	dDw
AdC	11N71	h12N	hS- 0	hSS-	hSJ6	SM02	dDw
AdSCcmb	4071	hh6- N	1S1h- 0	1S1hJ4	1S1106	1M2	dDw
RpsCcmb	2- N71	004S-	0h0N4	NS2S-	0h1- S	1M11	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0S4N-	01S0J	01S4J	0SN6N	SM40	dDw
YTTr peomb	10271	16420	1JN1N	16620	162h1	2Mlh	dDw
YTTr peomb	10272	0J6h	NSSN	0J6-	001-	- M1	dDw
YTTr peomb	10671	11440	11N14	116Nh	116JS	1M0S	dDw
YTTr peomb	10672	16NJS	1Jh1S	16- hh	16- N6	2MN0	dDw
YTTpomb	Nh71	1- 0JNN66	141- 6441	1- N01S1h	1- h221SN	1Mlh	dDw
YTTpomb	Nh72	1J20- JS	1- 2SJ- 4	1J- 40h2	146SNh2	NM2	dDw
ZdCd	6672	h20NN	hShh0	hShS-	h1J62	1M16	dDw
ZqpdnComb	hS71	6- 211	6J- 2h	6Jh- h	64N26	2M21	dDw
ZqpdnComb	h171	14hJN	14NJN	1J142	14hN6	SM16	dDw

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23O2	1- 1J24	1- - 239	1- - 714	1- 2J32	O.69	cpw
Antimony	12101	9- -	1O27	J37	947	J.O1	cpw
Arwenic	37O2	92J	J76	J31	JJ7	4.29	cpw
Bsrium	1- 701	96O91	992- 9	9J763	93966	1.69	cpw
Bsrium	1- 301	131- 1-	133112	13JO4J	137491	2.OJ	cpw
BeryRium	901	76O	71O	61O	76O	J.9-	cpw
Biwmuth	2O901	69- 17- 7	3O7JJ29	6336- 31	6922247	2.O4	cpw
Biwmuth	2O9O2	- 23O19J	- 27446J	- O92244	- 2O76- 3	- .O3	cpw
Bromine	J101	74O1	719-	4J1J	71- 3	7.36	cpw
Csdmium	1OJ01	6-	46	7O	7-	16.44	cpw
Csdmium	1O601	- J42	4142	- 336	- 92O	4.9J	cpw
Csdmium	11101	J- 2	92J	922	J94	6.OO	cpw
CsRium	4- 01	631JJ	6J- 31	6J212	63924	O.94	cpw
CsRium	4401	1122J49	11- 7391	1144J9-	11- 4711	O.9J	cpw
Csrbon	1201	- 196J12	- 297J77	- 263239	- 27- - 16	1.73	cpw
Csrbon	12O2	4O177	412- 4	41127	4OJ- J	1.47	cpw
ChRorine	- 701	J1- 22J3	J269217	J4- O7O1	J233- - 4	1.JO	cpw
ChRorine	- 7O2	6172-	61- 3-	61131	61- 76	O.29	cpw
Chromium	72O2	J946	J39-	J6- 9	J39-	1.34	cpw
CobsRt	79O2	1O771	1O714	1O391	1O619	1.42	cpw
Copper	6- 02	- 367-	- JO3J	- 33- -	- 3J21	O.6O	cpw
Dywprowium	1760l	14266	149OO	14191	1447-	2.3O	cpw
Dywprowium	176O2	6O37	6O71	6- 42	6176	2.62	cpw
Erbium	1640l	1OJ31	117O7	11- 43	11241	2.9-	cpw
Erbium	164O2	4964	4J11	7O44	494O	2.4O	cpw
GsdoRnium	16O01	1- 1J2	129O3	1- 1J2	1- O9O	1.21	cpw
GsdoRnium	16O02	66O7	62- 2	632J	6722	- .93	cpw
HoRmium	1670l	996- 3O3	9911O13	9J- 1O69	99O19- 1	O.63	cpw
HoRmium	167O2	424J343	414J446	4O13- 16	41- J13O	2.JO	cpw
Indium	1170l	3- 79- - O	31JO227	31O321J	3217791	1.JO	cpw
Indium	117O2	1O1O9- 3	1OO- 4OJ	9771- 9	9J9J2J	- .O6	cpw
Iron	74O2	62- 6- J	612472	62762J	62O73-	1.14	cpw
Iron	76O2	119379- 3	11964J1J	11J9- 936	1194491O	O.- 3	cpw
Iron	73O2	291127	2J2311	2J3J11	2J3216	1.4J	cpw
Krypton	J- 01	269	263	2J9	237	4.- 4	cpw
Lesd	2O601	9912O	1O779-	1O43J3	1O- 163	- .42	cpw

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	J2JO3	J6- O-	J63- 9	J72J-	2.7-	cpw
Lesd	2OJ01	- 9O7J4	41O4J7	4O7616	4O222J	2.7J	cpw
Lithium	601	27J37O3	261J2J6	274J11O	27J46- 7	1.- 6	cpw
Msgnewium	24O2	13237O	13- 277	13JO46	1346J4	1.63	cpw
Msngsnewe	77O2	13979J	13J47J	133- 1O	13J476	O.64	cpw
MoRybdenum	9401	7926	7JO1	73O1	7J1O	1.94	cpw
MoRybdenum	9701	1163	1- - -	1227	1242	6.J1	cpw
MoRybdenum	9601	22OO	2OOO	21- 4	2111	4.J2	cpw
MoRybdenum	9301	JOO	97O	J42	J64	J.96	cpw
MoRybdenum	9J01	2O37	2O42	2163	2O97	- .O9	cpw
Neodymium	17O01	24O49	24J73	24J2-	24736	1.J6	cpw
Neodymium	17O02	3392	3946	37O2	3343	2.91	cpw
NickeP	6O02	72JJ	77OJ	7721	74- 9	2.41	cpw
8howphoruw	- 102	2OOO	19OO	21- 4	2O11	7.J2	cpw
8otswwium	- 902	1O1J41	9664J	1O1477	999J1	2.J9	cpw
Rhodium	1O- 01	3- J3- 36	3166J- 9	3174O- 3	32- 6OJ4	1.J1	cpw
Rhodium	1O- 02	- 2962J6	- - O3- 4J	- 1O26- 7	- 2- 742-	- .76	cpw
Scsndium	4701	4971J27	4643113	43O4112	43636J7	- .4O	cpw
Scsndium	4702	171971	17- O96	1446O4	149JJ4	- .O3	cpw
SeRenium	J201	- J	2J	27	- O	22.O7	cpw
SeRenium	3302	13	23	2O	21	24.12	cpw
SeRenium	3JO2	29	- 9	47	- J	21.46	cpw
SiRcon	2J01	- 27OJ47	- 1J939O	- 27- 731	- 2- 14O2	1.12	cpw
SiRver	1O301	77J	6J-	613	619	1O.1O	cpw
SiRver	1O901	627	77J	47J	743	17.- -	cpw
Sodium	2- 02	- 3- - 2	- 792J	- 37O3	- 6922	2.- 4	cpw
Strontium	J601	62491	62724	61993	62- - 3	O.43	cpw
Strontium	JJ01	724919	7- 7961	719319	726J66	1.73	cpw
SuRfur	- 401	29OO3O	292J67	2J62J3	2J9341	1.14	cpw
Terbium	1790 1	1O- 7699-	1O13322J	1OO3O791	1O2O16O4	1.42	cpw
Terbium	1790 2	41244J7	41O2J61	- 9J1674	4O69663	1.J9	cpw
ThsRRum	2O- 01	1O42	1OOO	9OO	9J1	3.42	cpw
ThsRRum	2O701	2427	2237	2413	2- 3-	- .77	cpw
Tin	11J01	2337	2363	2J63	2JO-	1.9J	cpw
Titsnium	4301	21713	216OO	22471	21J76	2.- 3	cpw
Ursnium	2- J01	17633	16169	1766O	17J- 7	1.J-	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	71O2	14394	143- 1	1494J	14J24	O.37	cpw
Ytterbium	13201	- O92	- 4- 4	- 2J4	- 23O	7.24	cpw
Ytterbium	13202	137O	1997	17J-	1336	11.64	cpw
Ytterbium	13601	- 4- 4	- 763	- 379	- 7J3	4.76	cpw
Ytterbium	13602	1132J	12OOO	1147O	11326	2.- 7	cpw
Yttrium	J901	1- 411424	1- O61694	12JJO417	1- 113J44	2.O6	cpw
Yttrium	J902	1- 46917	14O93J9	12J73O3	1- 4343O	4.6O	cpw
Zinc	6602	19- - O	1J9O9	1977O	1926-	1.69	cpw
Zirconium	9001	1- 2O3	1- 4O3	1- 6O3	1- 4O3	1.49	cpw
Zirconium	9101	2342	- 137	- - 13	- O3J	9.3-	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	68264S	6024Sy	606018	6002y4	SU06	ql s
c n&Amonh	12171	1S818y	11SS6S	1S60E1	1S8- 4y	1Uy1	ql s
c rsenAq	0y72	y62-	y482	yy- 6	yy40	1U28	ql s
BarAum	1- y71	EE6S66	1S- 4S24	EE22y-	1SS0448	2U2E	ql s
BarAum	1- 071	18y4- 01	1804SSy	186- 82-	1864S66	SUy-	ql s
BerhlIAum	E71	106yy	1812S	10E- y	10ES-	1U-1	ql s
BAsmu&G	2SE71	6882604	yy6yyS4	68E11y6	6446444	11U8-	ql s
BAsmu&G	2SE72	- - 6y641	- - 14214	- 268266	- - 16S4S	1U40	ql s
BromAne	8171	016S	0E11	8SS-	06E1	6US1	ql s
RaOmAum	1S871	116-	1142	1101	11y8	1U-S	ql s
RaOmAum	1S671	y818	4884	y0y1	y48y	EUyS	ql s
RaOmAum	11171	1y848	16y2y	1y86y	16S0E	2U4S	ql s
RalqAum	4- 71	- 42S02	- y1842	- 4626-	- 46026	1U41	ql s
RalqAum	4471	y88S4- 1	yE1012y	y0- 8- 22	y84y2E2	1U62	ql s
Rarbon	1271	yEy40- 1	618y000	61- 1- 0y	6SES628	1UE8	ql s
Rarbon	1272	06084	084SS	001Ey	0046S	1US8	ql s
RGlorAne	- y71	101620y6	216- E844	24S160S0	2SE- E06E	16U62	ql s
RGlorAne	- y72	2SSESy	2SE- y6	21- 0S1	2S0E80	- U1-	ql s
RGromAum	y272	1S0y04	1S066y	1S800S	1S8SS-	SU62	ql s
Robal&	yE72	- 6411E	- 62S66	- 662EE	- 64161	SUy8	ql s
RoI I er	6- 72	- 1- 611	- SES02	- 1188S	- 11y21	SU04	ql s
t hsI rosAum	1y671	01y06	04yE1	0- SyE	0- S0y	2US6	ql s
t hsI rosAum	1y672	- 1- 00	- S6y8	- S261	- S06y	1U84	ql s
. rbAum	16471	y00yE	yE20y	y6864	y0E66	2U1S	ql s
. rbAum	16472	2462-	2426E	24- EE	244- S	SU0-	ql s
HaOolAnAum	16S71	66104	66104	64- 22	6yyy0	1U6-	ql s
HaOolAnAum	16S72	- 12E4	- 124S	- SEE-	- 110y	SUy1	ql s
9 olmAum	16y71	EE26646	0811- 8y	E8281y0	E18802E	12UEE	ql s
9 olmAum	16y72	4y2yE80	4- 44SE0	4- 1y- E-	4- Ey1yE	2U6S	ql s
DnOAum	11y71	0- - E4yE	y6yE622	01y1S66	6016016	1- U0S	ql s
DnOAum	11y72	1S4- 204	1S21644	1S18S4S	1S206y-	1U-	ql s
Don	y472	- 284yyy	- - 2100-	- 26S864	- 28ES64	SUE-	ql s
Don	y672	y8801211	6S120808	yE- EEy6y	yE466218	1US6	ql s
Don	y072	1ySS62E	1y2S- y2	1y- 6S41	1y1ESS0	1U10	ql s
Krhl &on	8- 71	- 41	- 6S	- 21	- 41	yU6E	ql s
LeaO	2S671	y- 6- 0S	y40y2E	y- yyy6	y- E818	1U24	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	440S- 6	4y8411	44E8E6	4y1081	1U1	ql s
LeaO	2S871	211S1y2	214yEEy	21SS4- 8	2118862	1U1-	ql s
LA&GAum	671	26- ySy2	21104- 8	26y- 6E0	246802E	12U-	ql s
5 agnesAum	2472	868Ey0	80yy- 8	8y1S48	86y181	1U46	ql s
5 anganese	yy72	E60482	Ey4680	E46401	Ey621-	1U11	ql s
5 olhbOenum	E471	26668	20100	20080	20211	2US6	ql s
5 olhbOenum	Ey71	y818	61S2	y618	y846	4U16	ql s
5 olhbOenum	E671	1S412	EEE6	E8Ey	1S1S1	2U01	ql s
5 olhbOenum	E071	- - y1	- yyE	- - SS	- 4S-	4US-	ql s
5 olhbOenum	E871	E10S	E12S	8608	8E8E	- US1	ql s
NeoChmAum	1yS71	1241yy	126E0S	1212- S	12411E	2U1	ql s
NeoChmAum	1yS72	- 8- 62	- 0- 8E	- 04EE	- 00yS	1U41	ql s
NAqkel	6S72	116S08	11y4y8	1144SE	11y- 1y	SU0-	ql s
PGosI Gorus	- 172	802S	86S-	80y-	86E2	SUE1	ql s
Po&assAum	- E72	4y6128	4y- 0E0	4y40- y	4y4880	SU26	ql s
CGoOAum	1S- 71	01- 4- y4	y662006	6E00S00	6yE14S2	12U26	ql s
CGoOAum	1S- 72	- 44ES8y	- - 2EE61	- - 41006	- - 0- 6S0	1UEy	ql s
pqanOAum	4y71	4ES0882	- 0- 142-	4011E02	44yS426	14U16	ql s
pqanOAum	4y72	16S1E2	1yE- S6	1y4S80	1y0862	2USE	ql s
pelenAum	8271	226E	2- 2y	22y6	228-	1U6S	ql s
pelenAum	0072	2S0	10-	24S	2S0	16U1-	ql s
pelenAum	0872	- 1-	- - S	- - S	- 24	- US-	ql s
pAAqon	2871	16806E- S	162Ey8yy	16- 2112S	164E0E68	1UEE	ql s
pAver	1S071	64ES-	602EE	661SE	661S4	1U81	ql s
pAver	1SE71	61y- S	6240y	6104S	61E1y	SU8S	ql s
poOAum	2- 72	81662	81- 20	8S4- E	81142	SU08	ql s
p&ona&um	8671	- SSESE	- 2S04-	- S0E84	- SE80E	- U24	ql s
p&ona&um	8871	20- 4y86	28ES6S1	28- S10S	28184y2	2U0E	ql s
pulfur	- 471	- 222SS	- 2y88S	- 1E8Sy	- 2262E	SUEy	ql s
i erbAum	1yE71	1S2- 10- 4	0816S- 6	1S2E1S6-	E446208	14UEy	ql s
i erbAum	1yE72	42S00- y	4212yES	42800yy	42- 6S20	1US6	ql s
i GallAum	2S- 71	y8y42	yE822	y80SS	yES21	1U18	ql s
i GallAum	2Sy71	14S1E6	1418- 1	141- 60	1411- 1	SU6S	ql s
i An	11871	1S0S4	11- E0	1SE6-	11S21	- U10	ql s
i A&anAum	4071	1SS0- 1	1SSSy0	E82y-	EE68S	1U2E	ql s
MranAum	2- 871	82- S8	8- 416	8224E	826y8	SU8S	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	2S- - 44	2S- 0yE	2S20E2	2S- 2E8	SU24	ql s
Y&erbAum	10271	10262	102Ey	10E88	10y1y	2U4	ql s
Y&erbAum	10272	84y-	84y8	0840	82y-	4U26	ql s
Y&erbAum	10671	12848	1241y	12y0-	12612	1U04	ql s
Y&erbAum	10672	168Sy	168Sy	16S- 2	16y48	2U0S	ql s
Y&&Aum	8E71	1- EE04E6	11SES2- E	1- 6E- 111	12E26E4E	12U6	ql s
Y&&Aum	8E72	1yy- 28-	1y1- 4S8	140E0E8	1y1y4E6	2U4-	ql s
ZAnq	6672	12E2y1	1204EE	1262y0	12066E	1U18	ql s
ZAqonAum	ES71	6- E- 1	60y48	662y8	6yE12	2U08	ql s
ZAqonAum	E171	14y0y	14042	14y2y	14614	SU08	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	06N6Sh	0h0JS4	06Nhh0	06hS22	SMM1	dDw
qCTb nCE	12171	2hN4	26N4	2610	262N	1M4	dDw
qpwr Ccd	0h72	hSh1	4JJ0	4NJ-	4JN1	1M01	dDw
Bspcmb	1- h71	64- SJh	6- SS- -	624N62	6- 266-	1M4J	dDw
Bspcmb	1- 071	11hSJ10	111J- SS	111N0S-	112J64S	1M0-	dDw
Br pEPmb	J71	2Jh1	2J02	2J- 1	2Jh2	SM0S	dDw
Bcwb mTG	2SJ71	hJS114-	6Jh24N0	6N6N2hS	6h0- J6S	NMMU	dDw
Bcwb mTG	2SJ72	- - 1h- h0	- 0- N422	- - 6SNh1	- 401h4-	6M0J	dDw
Bpmb cCr	N171	0- J4	061J	NS2N	06NS	4M1N	dDw
5 sob cmb	1SN71	101	1N-	21-	1NJ	11M2	dDw
5 sob cmb	1S671	- hSJ	44N4	41N4	4ShJ	12M1	dDw
5 sob cmb	11171	2- S2	21- 0	2S0N	2102	hMh	dDw
5 sPlcmb	4- 71	- 40J- -	- 4622N	- 42NN0	- 4h6N-	SM04	dDw
5 sPlcmb	4471	hJ220NS	hNN412h	h04- 660	hNhS1J1	1M61	dDw
5 spenC	1271	hS00J62	h26- 1Jh	h- 0S20h	h2- 0144	2MM2	dDw
5 spenC	1272	6h- 12	64442	66J0S	6hh0h	1M6	dDw
5 GPmpcCr	- h71	21S0N- h6	2h26JhN1	202J- h06	24h40101	12M1	dDw
5 GPmpcCr	- h72	2102NN	226S21	22NNSh	224S- N	2M6N	dDw
5 Gpmb cmb	h272	h20- 0	h2N44	h21- 1	h2h01	SM0-	dDw
5 nesPT	hJ72	01260	0S1S2	02SJh	011hh	1M41	dDw
5 nDDr p	6- 72	164h1h	1644NN	166- N0	16h1- S	SM06	dDw
&EwDpnwcmb	1h671	0J6NS	0NJ24	00N- 6	0NN14	1M1N	dDw
&EwDpnwcmb	1h672	- - 6SJ	- - 4h2	- - JJS	- - 6N4	SMM2	dDw
Fpecmb	16471	6Nh61	0S16J	6061h	6N0N1	1MMN	dDw
Fpecmb	16472	20042	20- 6N	20612	20h04	SM0J	dDw
HsonPCcmb	16S71	02h2-	0- h62	0- S42	0- S42	SM01	dDw
HsonPCcmb	16S72	- 4JNJ	- 46N2	- 446N	- 401-	SM06	dDw
y nPb cmb	16h71	Nh6N0J-	J00h64N	J04S1J6	J- 61h46	0M4	dDw
y nPb cmb	16h72	4- 262J1	4NJ160S	4- 10SJ2	4h116N4	0M2J	dDw
tCocmb	11h71	6S6J4S-	0S012S0	02S422h	60N1612	JM1h	dDw
tCocmb	11h72	1S1- S1h	1124N02	1S2Nhh0	1Shh4N1	hM04	dDw
tpnC	h472	4S024JN	4SN211J	4Sh6SJS	4S0S2- 6	SM12	dDw
tpnC	h672	02N00S1-	0- 6N1S41	0- 21N400	0- 2hNN4-	SM1h	dDw
tpnC	h072	1J2SJSJ	1Nh1026	1NN06JJ	1NN600N	1MM-	dDw
KpEDTnC	N- 71	- hS	- JS	- 4h	- 62	6MM2	dDw
Lr so	2S671	hS6S- -	hS0S46	4JJ6Nh	hS42hh	SM0J	dDw

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:24:SJ	&sTsUdP usb r:	S- Nq. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	411226	41NJ4J	41400J	414JNh	SM-	dDw
Lr so	2SN71	1JhNNN6	1JN- h- -	1Jh100N	1J640- 2	SMMh	dDw
LdTGmb	671	2- S- J0N	2h26211	262J0h2	24N6640	6M0J	dDw
9 sgOr wcmb	2472	JhJ1N1	J44N2-	J64S0N	Jh6S20	1M8h	dDw
9 sOgsOr wr	hh72	J4- 2- S	Jh2N2h	J2J2JJ	J410Nh	1M26	dDw
9 nPEeor Omb	J471	21J1N	2S44J	2106N	21- 0N	- M0N	dDw
9 nPEeor Omb	Jh71	62h2	h04-	hJ26	hJ04	4M1	dDw
9 nPEeor Omb	J671	J60J	J- - 0	J6h4	Jhh6	1MJ	dDw
9 nPEeor Omb	J071	41S1	- - 42	- 642	- 6Jh	1SM4	dDw
9 nPEeor Omb	JN71	JN2J	J40N	Jh0S	J626	1MMJ	dDw
ur noEb omb	1hS71	1- - 02N	1- 1- J1	1- 10SS	1- 220-	SM6	dDw
ur noEb omb	1hS72	4SSJ0	4SS16	4S0SJ	4S204	SM4	dDw
ucdkr P	6S72	- J1N4	- N0- 6	- NNNS	- NJ- -	SMMJ	dDw
8 GhwDGhpmw	- 172	0J11	00- 6	0NN6	0N44	1M21	dDw
8 nTswwcmb	- J72	- - 1J- 4	- 2NNh4	- - 14NS	- - S0h6	SMMS	dDw
. Ghocmb	1S- 71	6Sh2J- S	6NhhNN1	01- - h1h	66NS00h	NM4S	dDw
. Ghocmb	1S- 72	- - N10h2	- 66N- 2h	- 41- JSh	- 4N0JJ4	4MMS	dDw
I dsCocmb	4h71	4SN- S4N	40- NS- 4	400020h	4h- 20N6	NM6S	dDw
I dsCocmb	4h72	1h4J1J	10- 241	16S22N	1620J6	hM0J	dDw
I r PCcmb	N271	264	10h	212	210	2SMM2	dDw
I r PCcmb	0072	14-	16-	J-	1- -	20M8h	dDw
I r PCcmb	0N72	1- 4	1- 1	114	126	NMM4	dDw
I dPdnC	2N71	10602066	106NJ4N-	10N64h00	1004220h	SM0S	dDw
I dPr p	1S071	- S42	- 4h1	- ShS	- 1N1	0M4	dDw
I dPr p	1SJ71	- S60	2N2h	- 1N4	- S2h	6M84	dDw
I nocmb	2- 72	1144Sh	1121- N	114SN6	11- h4-	1M8N	dDw
I TpnCTcmb	N671	- - 6464	- - 1S41	- - - ShN	- - - h21	SMM2	dDw
I TpnCTcmb	NN71	2Jh- 06S	- S12J0h	2J0J006	2JN210S	1M8S	dDw
I mPmp	- 471	2J1060	2J4- 20	2J4J- 1	2J- 60h	SMM0	dDw
Ar pecmb	1hJ71	Nh- 20hN	J01SNJ0	JJ6h- - 2	J4S2JJh	NMM-	dDw
Ar pecmb	1hJ72	410Nh- N	461h00-	426N- h0	4- h422-	hMMS	dDw
AGsPbmb	2S- 71	- SSS	2642	- SSJ	2NN4	0M26	dDw
AGsPbmb	2Sh71	6J00	0S44	02- 6	0SNh	1MMJ	dDw
AdC	11N71	Nh- 6	Nh0S	Nh0S	NhhN	SM22	dDw
AdSCcmb	4071	0S6hS	0SJh1	6J0h-	0S4h1	SMMN	dDw
RpsCcmb	2- N71	JJ2N0	1S10S6	1S11h2	1SS01h	1M26	dDw

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h172	NJ- 1S	JSSS1	NJ0S-	NJ601	SMJ	dDw
YTTr pe omb	10271	21ShJ	21h- h	21S60	2122S	1M2N	dDw
YTTr pe omb	10272	1S6- 2	1SS4-	JJ26	1S2SS	- M01	dDw
YTTr pe omb	10671	14N2h	14J42	1hSS1	14J2-	SM0S	dDw
YTTr pe omb	10672	1020-	1JS2S	106S1	10J64	hM10	dDw
YTTpomb	NJ71	121- 2S26	1- N42640	1- 0104- 0	1- 2- S0S4	0M21	dDw
YTTpomb	NJ72	1h1N6J0	16S- 0Nh	1hhN644	1h6S- 06	2M0-	dDw
ZdCd	6672	N44NS	N2J44	N24S1	N- 20h	1MS	dDw
ZqpdnComb	JS71	4JJJJ	hS1N-	4J6Sh	4JJ2J	SMJ	dDw
ZqpdnComb	J171	11hJ0	11S1-	1S61-	11S04	4M40	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4467S	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTl wb D8 :t&:J	y h SMS0	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J20JSa	&wTwMv8 :u wb r :J	S- . qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cOcmb	2072	604 24	660- 4-	66 22.	66. S- 2	SR0-	dDl
qCTb nCE	12171	4 06	4- S1	4 26	446a	- R2a	dDl
qpl r Ccl	0 72	6 . 4	6- 20	64SS	644S	2R14	dDl
Bwpcmb	1- 71	4aS S4	4. 244	4a4020	4a6a2	1R 6	dDl
Bwpcmb	1- 071	a - 1Sa	a06. 6S	a6- S66	a64- 0a	1R .	dDl
Br pE8cmb	. 71	- Sa6	- 16	- 1S.	- 12S	1R S	dDl
Bdl b mTG	2S. 71	600 . S2	6. 10111	6. 616 -	6aa4aa.	1R41	dDl
Bdl b mTG	2S. 72	- 4 21. -	- - 62664	- - 4- a2S	- - a6226	1R01	dDl
Bpmb cOr	a171	0120	0620	0 20	0420	- R 6	dDl
9 wob cmb	1Sa71	22	242	22.	2- 2	- R04	dDl
9 wob cmb	1S671	40S.	46 .	42. 2	4 4	RSS	dDl
9 wob cmb	11171	26	2 1a	2 1.	2 64	- RSa	dDl
9 w8lcmb	4- 71	01. 42a	010. . .	01 1- 1	010 1.	SR S	dDl
9 w8lcmb	4471	121a . S4	11. 0a 16	1100 - - S	11. 0. . 10	1R01	dDl
9 wpenC	1271	610a611	6- 4- 021	64a. . a	6- - 04- S	2R46	dDl
9 wpenC	1272	0aSa-	aSa 6	0aS. 1	0. S1S	2RS2	dDl
9 G8mpcOr	- 71	21 1SSS.	24. 06 12	204. S. .	246 . 102	12R1a	dDl
9 G8mpcOr	- 72	21 11	22S62S	22622-	22S0a4	2R4-	dDl
9 Gpmb cmb	272	6a 6	6204	6. a-	60S4	SR60	dDl
9 new8T	. 72	62- a6	6102-	612. 4	61aS1	SRa.	dDl
9 nDDr p	6- 72	14S 0.	14Sa1S	1- . . .	14S4 S	SR 1	dDl
&El Dpnl cmb	1 671	a- 62.	a- 0a	a26- .	a- 2a2	SR60	dDl
&El Dpnl cmb	1 672	- 4 S	- S- 6	- S- -	- 10-	SR6a	dDl
Upecmb	16471	66S2-	60- 46	66266	66 4	1RS6	dDl
Upecmb	16472	26a60	201Sa	26024	26. SS	SR02	dDl
Hwon8Ccmb	16S71	01241	0- 2a6	0- 2.	026a	1R0-	dDl
Hwon8Ccmb	16S72	- - 1-	- 4 S	- S2-	- 262	SR62	dDl
h n8b cmb	16 71	. a0- . 4	. a. - 41a	. . 1 2 S	. a. 4Sa0	SR21	dDl
h n8b cmb	16 72	441- 0 4	4412S	4- - . 200	4- aa- 62	SR 0	dDl
tCocmb	11 71	6. a a21	0SSS. 44	6. a- a00	6. . S214	SR1-	dDl
tCocmb	11 72	1S26S2.	1S2 4. 0	1S20- 1S	1S2620.	SRS.	dDl
tpnC	472	- 2 - 2	- 2a62- 6	- 2. 4202	- 20a611	SR6-	dDl
tpnC	672	. SS. 1. 2	. 44Sa44	. SSaa 4	. 1 2. 6-	SR42	dDl
tpnC	072	1 - - . 14	1 40 a6	14. 014	1 2 0- a	1R06	dDl
KpEDTnC	a- 71	- 20	- 0	- 2	- 2	6R06	dDl
Lr wo	2S671	- aSS20	- . 1Sa0	- aa S-	- a6 - .	1R S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.uwb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMS0	&8mTmC:MwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMv8 :uwb r :J	S- . qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
Lr wo	2S071	- 16466	- 22- S6	- 1. 41.	- 1. - . 0	SR 1	dDl
Lr wo	2Sa71	14a. - 0	1 140S2	1 24a 1	1 S. 6. 0	1R2S	dDl
LdTGmb	671	2 44261	2611aS0	2 00. 61	2 0aSS.	1R 1	dDl
y wgCr l cmb	2472	16S 042	1 0- 061	1 aa6-	1 0. 4	1R 2	dDl
y wCgwCr l r	72	1a20- 16	10. 2 S6	1a 6 - 6	1a2 4 -	1R06	dDl
y n8Eeor Cmb	. 471	1a4S4	1a022	1a0aa	1a6- a	1R1S	dDl
y n8Eeor Cmb	. 71	1- - 4S	1- 4. a	14S16	1- 61a	2R .	dDl
y n8Eeor Cmb	. 671	1606S	1626a	1611a	16- a2	2R8S	dDl
y n8Eeor Cmb	. 071	a0 -	a. a0	a261	a660	4R20	dDl
y n8Eeor Cmb	. a71	21- a4	21242	2216S	21 .	2R2.	dDl
u r noEb cmb	1 S71	1- . - - 0	14 S-	14- 2. .	142 0	2R8S	dDl
u r noEb cmb	1 S72	44- 60	442aS	441. 6	442a1	SR1.	dDl
u cdkr 8	6S72	- S1-	- 1 -	- 400.	- 4. a2	SR 4	dDl
NGhl DGhpml	- 172	. - 0a	. 1- 6	. - 0S	. 2.	1R4a	dDl
NnTwl l cmb	- . 72	4a- 4. 2	400. Sa	4. 26- 2	4a4600	1R -	dDl
F Ghocmb	1S- 71	012aaSa	0Sa1124	0Sa24S0	0S. 0446	SR a	dDl
F Ghocmb	1S- 72	- - aS 20	- 4- S6	- - - 6.	- - a. 062	1R22	dDl
l dwCocmb	4 71	46 106-	461 104	4 01- 16	46120 1	SRa0	dDl
l dwCocmb	4 72	1 6- 4	1 . S0.	1 66a.	1 0- 04	SR 4	dDl
l r 8 Cmb	a271	20	2 2	262	26-	4R2a	dDl
l r 8 Cmb	0072	16S	1. 0	10-	100	1SR 1	dDl
l r 8 Cmb	0a72	1- 6	122	12a	12.	R46	dDl
l 8dnC	2a71	1 0- 0620	1 a S4S	1 00664-	1 6. . 00S	SR64	dDl
l 8vr p	1S071	- 660	- 06	- 0 .	- 660	2R S	dDl
l 8vr p	1S. 71	- .	- 6 .	- 20	- 4. a	R6.	dDl
l nocmb	2- 72	1S- . 1a	1S24Sa	1S224a	1S2a a	SR S	dDl
l TpnCTcmb	a671	- - 040	- - - 000	- - 06a0	- - 0- 0	SR a	dDl
l TpnCTcmb	aa71	- S64a. 2	- SS- S4a	2. 22-	- SS0021	1Ra-	dDl
l m8mp	- 471	414S1	414. 0-	4164.	41 161	SR S	dDl
Ar pecmb	1 . 71	1SSSS 4	1S1S4S4	1SS2 6.	1SS4- 42a	SR 4	dDl
Ar pecmb	1 . 72	4- 416. a	420S04a	4- a66. .	4- - - S4a	1R	dDl
AGw8mb	2S- 71	2. 60	- S0	- 12	- S 6	2R6	dDl
AGw8mb	2S 71	0 S2	01. 4	0- 11	0- - 6	2R12	dDl
AdC	11a71	1S. 6	142-	1 6	1- 61	SR40	dDl
AdTwCmb	4071	11. . 41	11. 26S	12SSSa	11. 0- 6	SR	dDl
5 pwCmb	2- a71	1- 2. S	1- S4SS	1- 22.	1- 1aa2	1R8SS	dDl

Reviewed By:Bin
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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4467S	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SMS0	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J20JSa	&wTwMv8 :u wb r :J	S- . qF UMRb

NwpwbrTrp	ywl l	9NI 1	9NI 2	9NI -	9NI yrwC	9NI FI &	5CdT
VwOwocmb	172	a0S06	a6. a2	a6 4-	a6a60	SR-	dDI
YTTr pecmb	10271	2SS. .	1. S4a	2S2a-	1. a1S	- R6	dDI
YTTr pecmb	10272	1SSa0	. a- 2	. 406	. 0. a	- R1-	dDI
YTTr pecmb	10671	1- 0S0	144SS	144- -	141aS	2Ra.	dDI
YTTr pecmb	10672	10 1	104S1	10- - .	104- S	SR62	dDI
YTTpcmb	a. 71	14S2aS22	14S011.	1- 6S1. 46	1- . SS- aa	1Ra0	dDI
YTTpcmb	a. 72	1 24. - 6	1 2 66	1 0166	1 44aa.	1R1-	dDI
ZdCd	6672	1S. - 0.	1S. 0. .	11S4S	1S. a61	SR40	dDI
ZqpdnCcmb	. S71	2a6aS	2a - a	- SSa4	2. 1S1	2R4	dDI
ZqpdnCcmb	. 171	6aa	6a20	6 6S	60 0	2R0	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4- 800-	4- 6060	4- 18y1	4- y0h0	SU82	ql s
c n&AmonE	12171	41yh	4- 84	4y18	4- y4	4U16	ql s
c rsenAq	0y72	46S6	4422	428y	44- 8	- U6-	ql s
BarAum	1- y71	- 1- 00h	- 1yhS2	- S80h4	- 1282y	1U10	ql s
BarAum	1- 071	y6S4h6	yy4212	y4882h	yy4y12	1USy	ql s
BerEIAum	h71	22- 2	2- 22	2- 12	228h	2U16	ql s
BAsmu&G	2Sh71	6- h0- 42	0S860SS	600hS28	60y4- y0	yU11	ql s
BAsmu&G	2Sh72	- 28y612	- - 481h6	- - h2Sy4	- - 41hy4	1U6S	ql s
BromAne	8171	61S2	6y4-	6y68	64S4	4U1S	ql s
RaOmAum	1S871	188	2- 8	2- -	21h	12U64	ql s
RaOmAum	1S671	4160	4y18	4yh-	4426	yU1-	ql s
RaOmAum	11171	206y	20- 6	2yyh	2686	4U16	ql s
RalqAum	4- 71	681yhy	6824- 2	68yy6y	68- 1h8	SUJ1	ql s
RalqAum	4471	11- 2h2S4	11- 210S2	1188SySy	11y1S40S	2U08	ql s
Rarbon	1271	46yy420	48y42S4	481h- 4h	4006- 26	2U22	ql s
Rarbon	1272	6S- 16	y014y	6S6- y	yh- 6y	- U2y	ql s
RGlorAne	- y71	2S0414Sy	24- 008hS	2642- 624	2- 8406- h	12USS0	ql s
RGlorAne	- y72	2S406S	2116S4	211621	2Sh- 2h	1U8h	ql s
RGromAum	y272	- 6824	- 6060	- y00y	- 64yy	1U62	ql s
Robal&	yh72	- 6h14	- yy18	- y018	- 6SyS	2U1S	ql s
RoI I er	6- 72	8yy- -	8yh- 2	8y4- y	8y6- -	SUJ1	ql s
t EsI rosAum	1y671	66616	68S82	60h4S	60y46	1U2S	ql s
t EsI rosAum	1y672	28620	286h1	286y1	286y6	SU11	ql s
. rbAum	16471	yyy0y	y4- 2S	yyS48	y4h81	1U1y	ql s
. rbAum	16472	22h2S	2264h	220- -	22060	SU61	ql s
HaOolAnAum	16S71	yh204	y861-	yh818	yh2- y	1USS2	ql s
HaOolAnAum	16S72	28404	28S- -	281- 6	28214	SU82	ql s
9 olmAum	16y71	h- 4hh88	h884yyy	h618266	h6106S-	2U08	ql s
9 olmAum	16y72	4200h88	4- 8- hS4	42h0161	4- 1h684	1UJ1	ql s
DnOAum	11y71	60S4h0S	0180- hh	0S16660	6h6h608	- Uy1	ql s
DnOAum	11y72	hhS6S2	1SShS2-	1S20201	1SS8h6y	1U82	ql s
Don	y472	2240Sy-	2- S01h4	224022h	22601yh	1Uy-	ql s
Don	y672	4S601620	4Sy- 8666	4S2S- 8hy	4S401- h6	SU6S	ql s
Don	y072	h0S8S8	h60y22	h640y2	h606h4	SUJ1	ql s
KrEI &on	8- 71	- 21	- - 0	- S6	- 22	4U86	ql s
LeaO	2S671	2- 411-	24S- S0	228- 24	2- 4248	2Uy6	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	1h4- 44	1h4186	1h22SS	1h- y00	SU62	ql s
LeaO	2S871	h1S4h8	h26- 00	h1S- 64	h1y046	1US1	ql s
LA&GAum	671	24S1hS6	2y8yS06	2y412h8	2ySh420	- U81	ql s
5 agnesAum	2472	14h- 6y-	1ySyy- S	148hy11	14h62- 2	SUy6	ql s
5 anganese	yy72	11122S4	11122Sh	1Sh0yS8	11S0- S0	SU00	ql s
5 olEbOenum	h471	16- 6S	16861	16- 4-	16y21	1U08	ql s
5 olEbOenum	hy71	14010	1y2Sh	14- 04	14060	2U84	ql s
5 olEbOenum	h671	16hh4	10- - 6	1016h	10160	1USS	ql s
5 olEbOenum	h071	h4y4	hh01	h20S	hy6y	- U8S	ql s
5 olEbOenum	h871	2- 42S	24- - 1	2- - 2h	2- 6h-	2U-4	ql s
NeoOEmAum	1yS71	1128yS	11644-	11421y	114yS-	1Uy8	ql s
NeoOEmAum	1yS72	- 6SS2	- 6y1-	- y48S	- yhh8	1U4-	ql s
NAqkel	6S72	22y28	21h64	21hyS	22140	1U4h	ql s
PGosI Gorus	- 172	68h4	6226	6820	664h	yUy-	ql s
Po&assAum	- h72	2h682h	2h186h	2hShyh	2h- 21h	1US8	ql s
CGoOAum	1S- 71	66y6SS-	0- S- ySh	6h48648	6h6h- 86	4U6y	ql s
CGoOAum	1S- 72	- 2- 21S-	- 2612h8	- - - hS6-	- 200488	1U6h	ql s
pqanOAum	4y71	4- 162- y	401y20S	40y2111	4yh4y- h	yU26	ql s
pqanOAum	4y72	1yS26S	1y- 041	1y- S40	1y2- 4h	1U21	ql s
pelenAum	8271	212	220	1h6	212	0U-0	ql s
pelenAum	0072	1SS	12S	11-	111	hU10	ql s
pelenAum	0872	1- S	11-	1S6	116	1SU61	ql s
pAAqon	2871	1S0688SS	11S2hSSy	11S46641	1Sh4814h	1U42	ql s
pAver	1S071	28yS	- 2yS	- 2yh	- 12S	0U48	ql s
pAver	1Sh71	- S2y	20yh	2h0y	2h2S	4U86	ql s
poOAum	2- 72	1S26y2	1S1h22	hhhy8	1S1y11	1U-0	ql s
p&ona&um	8671	2168h2	210y4y	211S14	21y1yS	1U60	ql s
p&ona&um	8871	1h01- 44	1h6hyhy	1h6- S62	1h68SSS	SU22	ql s
pulfur	- 471	- 4- h6y	- ySh60	- y10h6	- 48hSh	1U2-	ql s
i erbAum	1yh71	h2S0y06	1S2S1hS6	1SS2hh04	h81- 1y2	yU42	ql s
i erbAum	1yh72	4210SS6	42- 6222	4- 41h10	426yS48	1Uy8	ql s
i GallAum	2S- 71	22yS	2S42	1h42	2S08	0Uy0	ql s
i GallAum	2Sy71	4806	y0- y	y21S	y20-	8U21	ql s
i An	11871	h4S-	hS- 0	h02h	h- hS	- U6h	ql s
i A&anAum	4071	h0016	h8168	1SS00S	h888y	1U60	ql s
MranAum	2- 871	8y168	86142	8- 8- y	8yS48	1U-6	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	y- y46	y- y26	y- 620	y- y66	SU1S	ql s
Y&erbAum	10271	1601h	10S61	10S4y	16h42	1U14	ql s
Y&erbAum	10272	842S	8264	0h86	822-	2U60	ql s
Y&erbAum	10671	11422	122- h	12S- h	11hSS	- Uy8	ql s
Y&erbAum	10672	16100	16S00	16616	162hS	1U06	ql s
Y&&Aum	8h71	128- 12yy	1- 80- 1S0	1- y002y8	1- 4202S0	4U5S	ql s
Y&&Aum	8h72	14h1y14	1481661	1482242	148y1- h	SU-0	ql s
ZAnq	6672	1Sy- 88	1S0y02	1S64h0	1S6486	1US-	ql s
ZAqonAum	hS71	22S4-	220- 6	2266h	2248-	1U0S	ql s
ZAqonAum	h171	yS84	46yh	4h84	4hSh	4Uy-	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	682- 66	68S4h0	684h0S	68246h	SU S	ql s
c n&AmonE	12171	606S	026y	01h2	0S6S	- U00	ql s
c rsenAq	0h72	1S84-	1S884	1S081	1S8- 6	SU48	ql s
BarAum	1- h71	h1hh11	h2hhh4	h22y- S	h21- - 2	1USS	ql s
BarAum	1- 071	y2S02-	y146- 6	y2y4S8	y21h8y	SU81	ql s
BerEIlAum	y71	- S80	2y40	- S82	- S- y	2U61	ql s
BAsmu&G	2Sy71	hy- 2208	6y21h80	0S- - 2S6	662yS24	yU14	ql s
BAsmu&G	2Sy72	- 20Sy40	- 202hS4	- 260222	- 20S224	SUS8	ql s
BromAne	8171	0S8h	04S2	0444	0- 1S	2U68	ql s
RaOmAum	1S871	260	246	- S8	204	11U6-	ql s
RaOmAum	1S671	- 006	4h06	4026	4- hy	11U02	ql s
RaOmAum	11171	- y2y	41S-	- 824	- yh2	- Uh6	ql s
RalqAum	4- 71	2h- 410	2h- 0- 1	2h404-	2h- y64	SU20	ql s
RalqAum	4471	428hSyh	42S0828	42y4ShS	4262- 24	1U11	ql s
Rarbon	1271	h446h60	h4y1622	h62y6- 0	hh226Sy	1U0-	ql s
Rarbon	1272	688- 6	0S- 61	60y82	6yS6S	1U04	ql s
RGlorAne	- h71	21y04- S0	2hyh4h68	208- hy- 8	2h2h4y- 8	11U8h	ql s
RGlorAne	- h72	224S22	22- 81S	2- 1hSh	226446	1Uy4	ql s
RGromAum	h272	- 0h4-	- 0282	- 6y04	- 0266	SU06	ql s
Robal&	hy72	- y6h8	4Sh68	- y- 64	- y864	1Uh0	ql s
RoI I er	6- 72	114h22	11- y0S	11402y	1144S0	SU4	ql s
t EsI rosAum	1h671	804yh	86681	80y14	80- 6-	SU02	ql s
t EsI rosAum	1h672	- hh21	- h614	- 44y1	- h2Sy	1U00	ql s
. rbAum	16471	6h4S-	66- 10	6- 661	6h120	2USS0	ql s
. rbAum	16472	2h6y2	2h00h	2hy22	2h0y6	SU4h	ql s
HaOolAnAum	16S71	0- 680	0hSy6	0- 2yh	04S26	1U28	ql s
HaOolAnAum	16S72	- 4062	- h116	- 46- 2	- 48- 0	SU02	ql s
9 olmAum	16h71	8- 2- 14-	yyySSy0	yy1- 6S4	y4S8y48	1SUSS	ql s
9 olmAum	16h72	4220- 0h	4241488	426h02-	4244862	SU46	ql s
DnOAum	11h71	hyhy- 14	0S- S480	028482S	60h82S0	1SU41	ql s
DnOAum	11h72	y840hS	yy26- 8	yy0hh4	yy1640	SU6h	ql s
Don	h472	26S41yy	261h86y	2hyh- 1h	26Sh128	SU4S	ql s
Don	h672	40SS24- 0	46yy1h0-	4h66h88-	46hh- 2y8	1U6h	ql s
Don	h072	11S061-	1111208	11Sh64-	11S8108	SU26	ql s
KrEI &on	8- 71	- 2S	- hh	- 26	- - 4	hUhy	ql s
LeaO	2S671	1S- 0y4S	1Shh012	1S108h2	1S- 0168	1U8-	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	8h0SS6	8h28y-	86h- 8-	8h8420	SU04	ql s
LeaO	2S871	42hh01-	418264-	41826y0	42S0S10	1USS	ql s
LA&GAum	671	2- 2h18y	2hh0282	26y2S- S	2h248- -	0Uh	ql s
5 agnesAum	2472	040- 66	0- 0S20	026y46	0- 011-	1Uy	ql s
5 anganese	hh72	1S8h2Sh	1S0yS68	1S6yy62	1S08S08	SU01	ql s
5 olEbOenum	y471	10- - 6	10612	161h1	10S- -	4Uh6	ql s
5 olEbOenum	yh71	11Sy6	1S- - 0	1S4- 8	1S624	- U88	ql s
5 olEbOenum	y671	1- 4yy	126h6	120y8	12y84	- U40	ql s
5 olEbOenum	y071	616S	6y8h	64h2	6h- 2	6U41	ql s
5 olEbOenum	y871	1661S	10- 11	10411	10111	2Uhh	ql s
NeoOEmAum	1hS71	1h466-	1h182y	1h8- h8	1h4yhS	2U11	ql s
NeoOEmAum	1hS72	40444	46S66	464yS	46660	1Uh1	ql s
NAqkel	6S72	2164S	2146S	21- S-	21460	SU0y	ql s
PGosI Gorus	- 172	6- y-	664-	628h	644S	2U8h	ql s
Po&assAum	- y72	486S0y	486y- -	4yS0Sh	480yS6	SUhS	ql s
CGoOAum	1S- 71	hy6y60y	0SSS404	0- - S8S8	6066y80	1SU4y	ql s
CGoOAum	1S- 72	- 2S2h2-	- 2488S1	- 20y2hh	- 24- h26	1U1y	ql s
pqanOAum	4h71	- 8- 2206	46420yh	486- hSh	44461y2	12U21	ql s
pqanOAum	4h72	1h4hh6	1h26h2	1h- h2h	1h- h08	SU62	ql s
pelenAum	8271	1hh	1SS	1hh	1- 0	2- U2-	ql s
pelenAum	0072	16-	16-	1h-	16S	- U61	ql s
pelenAum	0872	111	y2	y0	1SS	yU8h	ql s
pAAqon	2871	144- h022	142- 64S1	141yy11-	142yS412	SU8y	ql s
pAver	1S071	8611	8h61	8008	86hS	1U1	ql s
pAver	1Sy71	0yy4	8- 86	8- 28	82- 6	2Uh0	ql s
poOAum	2- 72	01h26	0104-	021S-	010y1	SU41	ql s
p&onA&um	8671	1y2y6-	1y11- 1	18y6hy	1y12h1	SU80	ql s
p&onA&um	8871	10- - 24S	10- 42h6	102S14h	102y214	SU46	ql s
pulfur	- 471	- SyyS4	- S44y4	- S40- 8	- S6- 0y	1USS	ql s
i erbAum	1hy71	848S246	1SS2S- 20	1S4yh61h	y66h- y6	1SUyS	ql s
i erbAum	1hy72	4141y4y	4114814	4164- yh	414S- 86	SU6S	ql s
i GallAum	2S- 71	- S- 4	- 2Sy	- 242	- 162	- Uh4	ql s
i GallAum	2Sh71	0- 1y	0444	0h00	0440	1U04	ql s
i An	11871	2yy10	- S86y	- 1108	- S6h4	2U14	ql s
i A&anAum	4071	1h4h26	1hh- 2y	1h4- h8	1h40- 8	SU4	ql s
MranAum	2- 871	0hS- S	0h88h	0h- 4S	0h418	SUh0	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	0621h	0hyS-	0h444	0h8h4	SU1	ql s
Y&erbAum	10271	184- S	180Sh	10y2y	18- hh	2U14	ql s
Y&erbAum	10272	yS48	yS0h	y1h-	ySy2	SU6S	ql s
Y&erbAum	10671	1- 26h	1- 624	12y2-	1- 201	2U64	ql s
Y&erbAum	10672	162y4	16220	16y8y	16hS-	2U16	ql s
Y&&Aum	8y71	11h200y6	1- 0- 0y46	142841- h	1- 18- 2y2	11U$0	ql s
Y&&Aum	8y72	1hS2y40	140- 1h0	140h0S4	148- y- 6	1U11	ql s
ZAnq	6672	1S4- S0	1S4y2h	1Sh42h	1S4886	SU1-	ql s
ZAqonAum	yS71	2y8yy	- Sh42	2y482	2yy04	1U08	ql s
ZAqonAum	y171	6000	6h8h	6y00	608S	2U3y	ql s

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t N:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t N:&T :J	y h SM1S	T pNiqC. :M OCI:J	1
TI ip:A:coe p:d Oobdpn:J	2S2- 7S0712:14J- aJas	TI il MdN:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	2072	40s- a4	404S60	40- 442	40a621	SR6	O P
d. iqe C. E	12171	4460	a2as	4s1	4 2	R14	O P
dIPp. qO	0a72	s22S	s1s1	s11S	s104	SR62	O P
BI dpe	1- a71	- 40s 0	- a- 162	- a4s6S	- a2S- 6	1RS-	O P
BI dpe	1- 071	6S- a0	62066a	61- s1	61aS4a	1Rs6	O P
BpIENNpe	s71	211a	2166	21s1	21a0	1R S	O P
BqPe biG	2Ss71	6s - 10	6sS004s	60sS14s	6 s- sSa	1R42	O P
BqPe biG	2Ss72	- 24626	- 2a0 0	- - 2S- 44	- 204 - S	1R22	O P
BICe q p	171	6a a	0S6S	021S	6sa2	4R0S	O P
9 I ne dpe	1S 71	2a4	246	2aS	2aS	1R60	O P
9 I ne dpe	1S671	44 4	4- 4	46a1	4aS6	2Rss	O P
9 I ne dpe	11171	- 1-	- 10s	- 1S-	- 14S	1R22	O P
9 I NNdpe	4- 71	160as-	1011 s	10Sa- 2	16s001	1R1-	O P
9 I NNdpe	4471	2 sS2- 0	2s460- 1	2s6- 216	2s- - - sa	1R S	O P
9 I Ir C.	1271	- 0114- 6	- 00 a4-	- 0aa466	- 04 4 2	SRs1	O P
9 I Ir C.	1272	460aS	4a6 s	40S a	46aS	1Ra0	O P
9 GNCIq p	- a71	22- ssas	26a20S62	2s21aas4	26S4041	1- R1	O P
9 GNCIq p	- a72	2- SsS4	2- - 4 0	2- - 6S2	2- 266a	SR66	O P
9 GICe dpe	a272	20s20	20 44	20aSS	200a0	SR 2	O P
9 Cr I NN	as72	2sS46	200- 4	2 S 4	2 2	2R4S	O P
9 Ct t pI	6- 72	s4- - 1	s440a	s- - 24	s4S4-	SR60	O P
TEPt ICPdpe	1a671	06- 1s	0s1SS	06s1-	00444	1R s	O P
TEPt ICPdpe	1a672	- - 06s	- - sS	- - a22	- - 020	SRa6	O P
UIr dpe	16471	a420	a421s	a41 6	a422	SRSs	O P
UIr dpe	16472	221s2	21 2	2100a	21s- 1	1RS4	O P
HI nCNq dpe	16S71	60446	6s4- 1	6 2	6 a6	1R4	O P
HI nCNq dpe	16S72	- - 626	- - 1aa	- - - 22	- - - 60	SR02	O P
h CNe dpe	16a71	ssSa440	s 2s224	s002S60	s - aa0s	SR6	O P
h CNe dpe	16a72	4- S6S -	422a4a4	422- 21s	42a1a a	1R1	O P
& ndpe	11a71	010 - S	0- 4104	01- 6S02	021 01S	1RaS	O P
& ndpe	11a72	s 6- a	1SSSS01	ss2 s2	ss- 66	SRa	O P
&C.	a472	1s- - aSS	1s1Sa- 2	1s2a1s1	1s2- S04	SR6S	O P
&C.	a672	- a210- S1	- 41- 1- 6a	- 40 26	- 401S4a1	1Ra0	O P
&C.	a072	2aa- 2	144ss	1 1ss	1s41S	SR6s	O P
KIEt iC.	- 71	2ss	- SS	- 01	- 2-	12R4	O P
LpI n	2S671	sa22S	sSS4S-	sS11S2	s sS	SR6	O P

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LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t Np:&T :J	y h SM1S	TdNiqC. :M CICI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJas	TI il MdNp:mI e p:J	S42dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	061ssa	04ss6	0a- s22	0aa2sa	SR 1	CI P
LpI n	2S 71	- 0- 2- 4	- 0461- s	- 6s1s04	- 02- 4 0	SR06	CI P
LqGdpe	671	2620a2S	261S 26	26S- 0s4	2614S46	SR40	CI P
y I g. pPdpe	2472	a2a21S	a1a066	a1- 020	a1 2- 4	1R1	CI P
y I . gI . pPp	aa72	0S1026	6sS0- a	6s21- -	6s4 6a	SR 6	CI P
y CNEr np. be	s471	1S- - 0	1S6aa	1S- - 0	1S44-	1R0a	CI P
y CNEr np. be	sa71	661S	60a2	6a- a	66- 2	1R66	CI P
y CNEr np. be	s671	011	62S	0a-	6sa	SR0s	CI P
y CNEr np. be	s071	4a1	44as	4160	4- 1	4R2	CI P
y CNEr np. be	s 71	11S46	1Sa0s	1Ss6-	1S 6-	2R2s	CI P
mpOnEe dpe	1aS71	144 4	14ss41	146Ss-	146s61	1R 1	CI P
mpOnEe dpe	1aS72	466S4	46SS2	460S	464-	SR 2	CI P
mqCkpN	6S72	1642-	161- -	1a2aa	1as- 0	- R 2	CI P
uGCCPt GCIbP	- 172	- 0 4	- s 4	- 6a1	- S6	4R41	CI P
uCIl PPdpe	- s72	2 0saS	2 a401	206 -	2 - 42S	2RS6	CI P
FGCndpe	1S- 71	01aS22S	02saa60	01 S6-	02112 -	1RSa	CI P
FGCndpe	1S- 72	- 2s0-	- - 1S -	- 2aa- 64	- 2 0 0s	SR	CI P
DCI . ndpe	4a71	46 42 1	4 1ss6s	46s- 446	40- 2a6a	1R6S	CI P
DCI . ndpe	4a72	1a2a2	1a21 S	1aSa -	1a1064	SR6	CI P
DpNp. dpe	271	1- a	11a	2	111	2- Rs1	CI P
DpNp. dpe	0072	14-	1- 0	22S	160	20R0	CI P
DpNp. dpe	0 72	4	12-	110	1S	1sR44	CI P
DqNDC.	2 71	1- S4- - 6-	1- 4Sa a	1- 2 0221	1- 24a4sS	1R4S	CI P
DqNpI	1S071	a01S	a2as	a04-	aa01	4R a	CI P
DqNpI	1Ss71	a2Ss	a1as	a11	a162	SR s	CI P
DCndpe	2- 72	01aa1	02a40	026- s	02246	SR 4	CI P
DiIC. idpe	671	11a11a	1102a6	110- 16	116a62	1RS	CI P
DiIC. idpe	71	1S2- 2 0	1S160s	1SSa416	1S1a160	SR s	CI P
DbNbI	- 471	20a0sa	20a244	20 S4	206- 62	SRa4	CI P
cpIr dpe	1as71	1S1- s- - 1	1SS04S- 6	sssS002	1SS6 S46	SR04	CI P
cpIr dpe	1as72	421SS- a	4124aS4	424S2- 6	41s1as2	1R4-	CI P
cGI Ndpe	2S- 71	22aS	2- 2a	2- aS	2- Ss	2R2a	CI P
cGI Ndpe	2Sa71	a6s-	a01	6S a	a - 2	- R06	CI P
cq	11 71	10 2S	1 S 0	10s62	10sa0	SR04	CI P
cqI . dpe	4071	1S- - 14	1S2- 1	1S- - - s	1S- S11	SRa-	CI P
5II . dpe	2- 71	4 0	4s2a4	4 6- 6	4 s2-	SR64	CI P

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9 Nb. i:DI e t Nb:&T :J	y h SM1S	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJas	TI il MdbI:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a172	a1s14	a14 2	a1a0s	a16as	SR44	Q P
YiipIr dpe	10271	1- - 4s	141S	1- 64s	1- 0S2	2R0s	Q P
YiipIr dpe	10272	60- a	6604	6 1-	6041	1RS-	Q P
YiipIr dpe	10671	1S401	1Sas6	ss01	1S- 46	- R2S	Q P
YiipIr dpe	10672	140- 1	14s4	1a4s	1aSas	2R6-	Q P
YiiIdpe	s71	1- 6S Sa	1- 166S	1- aa64S4	1- 0662sS	1R 2	Q P
YiiIdpe	s72	1402 44	14as0SS	14a00a4	146- 4- 2	SRa6	Q P
Zq O	6672	01- - a	0S 6	0Sa24	0Ss1a	SRa0	Q P
ZdQC. dpe	sS71	10612	2S1a1	1s164	1 s0a	6R0a	Q P
ZdQC. dpe	s171	42 4	4S42	42s2	42S6	- R	Q P

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
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9 Nd. i:DI e t Nd:&T :J	y h SM11	Td iqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- 7S0712:14J- aJsa	TI il Mdd:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
dNe q dpe	2072	s 4s2a	s - - 2a	sa6s02	s 1406	SR0-	OI P
d. ioe C. E	12171	10a4	10s	2S10	1as-	0R3	OI P
dIPp. oO	0s72	1a6-	1a62	16 S	1aSs	sR32	OI P
BI Idpe	1- s71	- 022	- as4	4Ss410	4S12- S	SR 2	OI P
BI Idpe	1- 071	6 - 6 a	0S6401	0S0S0a	0S2416	1RSa	OI P
BpIENdpe	71	2aa1	2 S	2 66	2 46	1R 4	OI P
BqPe biG	2S 71	6a11- 16	0S642a2	60as6s4	6aa0Sa4	2R24	OI P
BqPe biG	2S 72	- 221aas	- 24 a06	- 1s1s- s	- 2S0066	1R3a	OI P
BIOe q p	a171	0s11	026S	01s2	0- Sa	2R32	OI P
9 I ne dpe	1Sa71	1aa	12s	1- a	1sS	22RSs	OI P
9 I ne dpe	1S671	4- s1	4S60	4110	410	- R32	OI P
9 I ne dpe	11171	10a0	161	1004	1020	sR41	OI P
9 I NOdpe	4- 71	2s1 - 4	2s1 26	2ssS04	2s2 0a	SR02	OI P
9 I NOdpe	4471	42a - 2s	420s61a	42012- 2	420a02s	SR22	OI P
9 I Ir C.	1271	6S1- 2a2	61- 04a4	6- - 211-	616S 6S	2R31	OI P
9 I Ir C.	1272	00s22	00as0	0626s	00214	1RS	OI P
9 GNOIq p	- s71	2- a2- 264	204sss 2	2 4- 6 61	26 Ss202	1SRsa	OI P
9 GNOIq p	- s72	2- S200	2- a402	2- a	2- 624	2R21	OI P
9 GIOe dpe	s272	2s66S	246s1	2s02-	2s- 4s	2R 0	OI P
9 Or I Nd	s 72	26a42	2s- S6	260ss	26- S1	- R2a	OI P
9 Ot t pI	6- 72	s4S1	s4Sa-	s- 10	s- 061	SR 4	OI P
TEPt IOPdpe	1s671	a44 -	a- 110	a44a4	a4S- 1	SR 4	OI P
TEPt IOPdpe	1s672	- 6222	- sa1a	- s0 1	- s 44	SR30	OI P
UIr dpe	16471	62- 1-	6- 1s	6S12S	61a64	2R34	OI P
UIr dpe	16472	2s240	2s414	24 s0	2s2S6	SR 2	OI P
HI nONqdpe	16S71	04Sa2	0sS- 0	04S- 1	04- a-	SR06	OI P
HI nONqdpe	16S72	- s a2	- s16S	- 4 - 2	- s- sa	1R36	OI P
h ONe dpe	16s71	0- 14	01424S	6- 4- 2a	00- S6	1Ra1	OI P
h ONe dpe	16s72	41ss0S6	42S1a2	- a4S12	411- a4	2R0	OI P
& ndpe	11s71	01 - 66a	0S1as4s	6 a2a1S	0S6sSSa	1R3S	OI P
& ndpe	11s72	6a6 2	0 - s4	- 46a	62sSs	2R1s	OI P
&C.	s472	1s6Sa -	1s2S- S0	1s4- 12s	1s41442	1R 2	OI P
&C.	s672	20061aS-	201a2s- S	20s4s12s	204 64a6	1RS6	OI P
&C.	s072	6sss4S	66Sa41	6s6- 6S	6s0sa1	SR4-	OI P
KIEt iC.	a- 71	- 40	- 16	- 46	- - 0	sR2s	OI P
LpI n	2S671	- - 1622	- - aSs0	- 2424a	- - 1- S	2RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T :J	y h SM11	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJsa	TI il MdNp:mI e p:J	S4- dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	204640	202S4-	2011aS	202624	SR36	Q P
LpI n	2Sa71	12 16S2	1- S2404	12a4- 0a	12 2a1a	SR0S	Q P
LqGdpe	671	264- 11a	2s20saa	2s S616	2sa01S0	2R24	Q P
y I g. pPdpe	2472	s4261a	s41S4a	s- 01sS	s4S202	SRs2	Q P
y I . gI . pPp	ss72	6a1 a	606s0a	602a66	600140	SR3a	Q P
y CNEr np. be	471	16- 4-	16a44	160 4	1666S	1R3s	Q P
y CNEr np. be	s71	2010	20SS	20s	202s	1R1S	Q P
y CNEr np. be	671	s64-	sss1	s06S	s6s1	1Ras	Q P
y CNEr np. be	071	1610	1a42	2S60	1a42	12R22	Q P
y CNEr np. be	a71	441a	4- s	4- 26	4- 60	1RS6	Q P
mpOnEe dpe	1sS71	1ss- 1	1s1110	1s12 a	1s26S2	1R3a	Q P
mpOnEe dpe	1sS72	40Ss2	46001	461- 6	466s-	1RS1	Q P
mqOkpN	6S72	11s2s	11s0s	1S6S4	112- s	4Ra0	Q P
uGCPt GCIbP	- 172	- - a4	- 006	- 026	- 62a	sRaa	Q P
uCIl PPdpe	- 72	- 26 a2	- 26s- -	- 2sa16	- 26444	SR1a	Q P
F GCndpe	1S- 71	0- - 11- 4	0SsSS41	01- SSS6	010S- 4	2RS2	Q P
F GCndpe	1S- 72	- 202aas	- 2s10 4	- 1206	- 2104s	2R44	Q P
DOI . ndpe	4s71	466410S	4s s Ss	4646121	46- s- a	SR06	Q P
DOI . ndpe	4s72	140021	1401sa	144s4-	146404	1R16	Q P
DpNp. dpe	a271	1- s	1 1	1S6	144	2 R	Q P
DpNp. dpe	0072	160	100	1- S	1sa	1sRs0	Q P
DpNp. dpe	0a72	146	120	110	1- S	11R-	Q P
DqNDC.	2a71	1s1 0S 4	1s2Sa11	1s26- - 22	1s222a4s	SR2-	Q P
DqNpI	1S071	1 0s	16a-	1a42	1a- -	0R6	Q P
DqNpI	1S 71	1a42	16Sa	10a4	104s	6R6	Q P
DOndpe	2- 72	4- sS0	42412	426- S	42asS	1Rs	Q P
DiIC. idpe	a671	1a1aSs	1aS1s2	10a- 2S	1aSS -	SR0	Q P
DiIC. idpe	aa71	166a- a1	162a- 1S	161- 0a-	16- 6a2s	1R0-	Q P
DbNbI	- 471	2a20S2	2as2a0	2a2 - S	2a- 64S	SRsS	Q P
cpIr dpe	1s 71	s sa	1SS24Sa1	60- Sa	s0a2	SR2a	Q P
cpIr dpe	1s 72	4S02 0S	4S a s6	- - 1416	4S- 4440	2R2-	Q P
cGI NNpe	2S- 71	1aa4	1 a4	212s	1 0	6RSa	Q P
cGI NNpe	2Ss71	sS4-	46s1	4a1a	4a- 0	4RS0	Q P
cq	11a71	aSS-	aSS-	06 4	0 SS	2R2s	Q P
cqI . dpe	4071	11a 1	11aa4S	12S1Sa	11 - 1-	SR3a	Q P
5II . dpe	2- a71	s1 4	s201S	s2- 41	s2- - 4	SR0-	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Nb. i:DI e t Nb:&T :J	y h SM11	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdpn:J	2S2- 7S0712:14J- aJsa	TI il MdbN:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	s172	416s0	4S1S6	41- - S	41S- 1	1R	OI P
YiipIr dpe	10271	16s44	1621S	16420	16- 4	1RS-	OI P
YiipIr dpe	10272	060s	0 a6	0a40	0a- 6	1R	OI P
YiipIr dpe	10671	112- S	11 40	11 40	110Sa	- Rs4	OI P
YiipIr dpe	10672	1s0a2	1saa2	140 0	1s4a0	- Ra0	OI P
YiiIdpe	a 71	1- a s22a	1- s06- 21	1- s 04-	1- 6a 66-	1R S	OI P
YiiIdpe	a 72	144104a	1444420	1- aS06a	1422- 14	2Rs-	OI P
ZqO	6672	4S- s1	41- 1-	4Sssa	4S041	1R24	OI P
ZdOC. dpe	S71	41262	4112a	41s02	41- 21	SRss	OI P
ZdOC. dpe	171	S2a	s s	2- 0	2a0	- RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:41:J6	&sTsUdP u sb r:	S44q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	- - N6N0	- - 2J0S	- 26hh-	- - 20JS	1M06	dDw
qCTb nCE	12171	22Sh	24- 4	2- - 4	2- 2J	4MNJ	dDw
qpwr Ccd	0J72	10NS	1N42	1N26	1N16	1M00	dDw
Bspcmb	1- J71	2SSN- 1	2S- J61	2S4JSS	2S2h64	SM14	dDw
Bspcmb	1- 071	- JJN- 6	- JN0S4	- 6S246	- JN262	SM62	dDw
Br pEPRmb	h71	1JJJ	1604	1JhJ	16SN	- M06	dDw
Bcwb mTG	2Sh71	600N016	6000- 2N	6N6hh0S	6NSN601	SM0N	dDw
Bcwb mTG	2Sh72	- - SJNJ6	- - 1h002	- 0- - 2- N	- 4J2hJJ	0MS-	dDw
Bpmb cCr	N171	62h-	64h-	61J2	6- 1-	2M02	dDw
5 sob cmb	1SN71	121	N-	NN	h0	21MJ	dDw
5 sob cmb	1S671	- h06	- 0h2	- 0h2	- NJ-	2M0J	dDw
5 sob cmb	11171	1101	1146	11J1	11J6	1M16	dDw
5 sPdcmb	4- 71	N- 140	N- 64-	N4- N0	N- 02J	SM0J	dDw
5 sPdcmb	4471	142004N	14622SJ	14- 66S1	14421NJ	1M24	dDw
5 spenC	1271	- 24hS0J	- - 04010	- 414- S6	- - 46S- -	2MN	dDw
5 spenC	1272	4SJ6J	42JS4	411h2	4142S	2Mh	dDw
5 GPmpcCr	- J71	24S2406-	20h0- J4J	2hh26S2h	20- SN112	11MS1	dDw
5 GPmpcCr	- J72	2- 4h- 4	2- h116	24- J6J	2- h2SJ	1MMS	dDw
5 Gpmb cmb	J272	2h2J0	2N66h	2N241	2N022	1M0N	dDw
5 nesFT	Jh72	1hJJ0	1h24-	1NNJ6	1h21h	1MM-	dDw
5 nDDr p	6- 72	- - 2Jh	- - 0N4	- - N14	- - 61h	SM1-	dDw
&EwDpnwcmb	1J671	J644J	JNS- J	Jh1S6	J0N62	2M1	dDw
&EwDpnwcmb	1J672	2416h	241hJ	2- 04N	24S- 0	1MS4	dDw
Fpecmb	16471	422S1	4- N6J	44SN2	4- - N-	2M0	dDw
Fpecmb	16472	10- 21	10- SJ	10SS4	1021S	1MS4	dDw
HsonPCcmb	16S71	4Nh24	J14N-	J2- 4J	JSh1N	- M1h	dDw
HsonPCcmb	16S72	244hh	242Sh	24SNh	24266	SMM0	dDw
y nPb cmb	16J71	h46N- JJ	hNJJN14	hN4J10N	h02- 11J	2M20	dDw
y nPb cmb	16J72	422611h	42J4S- S	4Jh60- 4	4- JNh61	4M0-	dDw
tCocmb	11J71	0S2- h0-	01J2N6-	0- - 0hNJ	01016S0	2M2S	dDw
tCocmb	11J72	hhNSh6	hN2J44	1SN2NN-	1S21104	JM2h	dDw
tpnC	J472	1S204hh	1SS0- S0	hh- 412	1SSh4S6	1M0S	dDw
tpnC	J672	1h2- 22S1	1h26- 6- 2	1h- 2N1h0	1h204600	SM2J	dDw
tpnC	J072	46040-	46SSJ4	4JJS4J	46SNJN	1M6	dDw
KpEDTnC	N- 71	2h0	- 16	- S0	- S0	- MS6	dDw
Lr so	2S671	2J1S62	2JNN42	2J0hhN	2JJh60	1M00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-44671S	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2-7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	2111hS	212SSN	21J041	212hNS	1M14	dDw
Lr so	2SN71	hN6NNh	1SSh04h	1S110h6	1SS2N11	1MIN	dDw
LdTGmb	671	24hJN1N	2J162Nh	2J10-11	2JShNS6	SM4N	dDw
9 sgOr wcmb	2472	2-0110	2-4N66	2-SNJS	2-420N	1MJ	dDw
9 sOgsOr wr	JJ72	-h22-S	-N6hN-	-NS064	-N66Jh	1M4N	dDw
9 nPEeor Omb	h471	NN-6	h412	h4hJ	h24N	-MIN	dDw
9 nPEeor Omb	hJ71	-4N4	-4-4	-N10	-J0N	JMI-	dDw
9 nPEeor Omb	h671	4NN4	J206	J1-4	JShN	-MIh	dDw
9 nPEeor Omb	h071	2-Jh	2-Sh	21Jh	220J	4MIN	dDw
9 nPEeor Omb	hN71	664-	Jh-J	6J6N	6-N2	6M1S	dDw
u r noEb cmb	1JS71	1S41hJ	1S0-Jh	1Sh0S6	1S0SN6	2MIN	dDw
u r noEb cmb	1JS72	-2h44	-2N24	-2660	-2N11	SM12	dDw
ucdkr P	6S72	hJ00	h4NS	h1-6	h-hN	2M46	dDw
8 GhwDGhpmw	-172	16SS	1J60	14h2	1JJ-	-MI0	dDw
8 nTswwcmb	-h72	1J62N2	1J-2J0	14N-N-	1J2641	2M61	dDw
. Ghocmb	1S-71	02S10S4	014N-01	02NS-6N	021S14N	SM12	dDw
. Ghocmb	1S-72	-2h2N0-	-20JJh0	-JJ-h62	--04144	4M62	dDw
l dsCocmb	4J71	4JNhN1-	4J0NNhJ	4JNJhh6	4JN4hS1	SM12	dDw
l dsCocmb	4J72	1J1h-S	14h-6J	164h02	1JJ422	JMIN	dDw
l r P Cmb	N271	12J	JJ	00	N6	41M04	dDw
l r P Cmb	0072	1-S	11-	140	1-S	12MI2	dDw
l r P Cmb	0N72	N2	N0	0S	NS	1SM10	dDw
l dPdnC	2N71	0-264S4	0-26424	0-0NJ01	0-4-0hh	SM41	dDw
l dPr p	1S071	140J	1-60	1610	14N6	NM44	dDw
l dPr p	1Sh71	1-JN	140J	1J2J	14J-	JMIh	dDw
l nocmb	2-72	4S1N1	4S0h1	4S604	4SJ4h	SMIS	dDw
l TpnCTcmb	N671	0-SJN	06J6S	046JN	040Jh	2M4	dDw
l TpnCTcmb	NN71	6462-0	66S422	6J24NS	6J-S46	1M3h	dDw
l mPmp	-471	2J6S41	2JN22S	261J1N	2JNJh-	1M30	dDw
Ar pecmb	1Jh71	h0J104h	hhNJNS-	h016JJ4	hN1NS-6	1M4h	dDw
Ar pecmb	1Jh72	4202S2J	4S4NNN2	44hJ0J-	420222S	JM4-	dDw
AGsPRmb	2S-71	1-SS	1460	142J	1-h0	6M21	dDw
AGsPRmb	2SJ71	--26	--60	-J26	-4S6	-M1S	dDw
AdC	11N71	1262-	120S6	126hN	12606	SM6	dDw
AdSCmb	4071	N22-6	N44hS	N641S	N4-0h	2M4N	dDw
RpsCmb	2-N71	---hJ	-460-	--JS-	--NJ0	2M3h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tusb r:	8N
5 Rr CTI sb DP t&:	9 y SU12	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	- 1NhJ	- 21Jh	- 14hJ	- 1NJS	1N8J	dDw
YTTr peomb	10271	11hJ6	11hJ6	12- J6	12SNh	1M11	dDw
YTTr peomb	10272	J01N	JJ1N	JJ2h	JJNN	2N81	dDw
YTTr peomb	10671	N0hJ	h10N	N062	Nh12	2M8S	dDw
YTTr peomb	10672	1- N- S	146- S	1J24N	14J6h	4MMN	dDw
YTTpomb	Nh71	1- 641040	1- JN22JN	1- - N4JN1	1- J- 61h6	SM1h	dDw
YTTpomb	Nh72	14N11S-	1- J621-	1JhN1NN	140NJS1	NM1N	dDw
ZdCd	6672	1h- 60	1hh14	1h4hS	1hJhS	1M40	dDw
ZqpdnComb	hS71	1hS64	1hJ02	2SS6J	1hJ60	2M6	dDw
ZqpdnComb	h171	41S1	4442	4S42	41hJ	JM1J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sT i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tnp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
qPmb oCcmb	2072	64J21N	6- J- JJ	6- J- 62	6- N64J	SMMh	dDw
qCTb nCE	12171	2JN4	2h- 4	26- 4	2010	6M10	dDw
qpwr Ccd	0J72	100S	10N-	1064	100-	SMJ	dDw
Bspcmb	1- J71	- 020S2	- 0- 4S1	- 601h1	- 01ShN	SM12	dDw
Bspcmb	1- 071	6J26Sh	66266S	6J02J1	6J0JS0	SM00	dDw
Br pEPmb	h71	- 122	- 166	- 10S	- 1J-	SMM4	dDw
Bcwb mTG	2Sh71	60- SNhS	01- 1h26	60021NN	6N0N- - J	- M21	dDw
Bcwb mTG	2Sh72	- 1hNSJ4	- 2h1h0h	- 2J4- - S	- 24N121	1M46	dDw
Bpmb cOr	N171	06S2	0h00	N- J-	0h00	4M0S	dDw
5 sob cmb	1SN71	1N-	1h2	2- -	2S-	1- M21	dDw
5 sob cmb	1S671	44- 4	4426	4260	4- 06	2M1J	dDw
5 sob cmb	11171	221h	2- JS	21Nh	22J-	- MM1	dDw
5 sPlcmb	4- 71	1J- h- S	1J6h0S	1J6J12	1JJNS4	1M3J	dDw
5 sPlcmb	4471	262J60N	260- h64	2021- 4N	260- 66-	1M0h	dDw
5 spenC	1271	J1NJ22N	J- 6S1S0	J4061- J	J- 4S4hS	2M04	dDw
5 spenC	1272	6601h	6Jh4h	66J1S	66- h2	SM0S	dDw
5 GPmpcOr	- J71	220- 0- 4J	266NhNN0	2N0h1624	26S02hJ2	11M0h	dDw
5 GPmpcOr	- J72	21hNS0	22Jh60	22h1N-	224hN6	2M12	dDw
5 Gpmb cmb	J272	2h410	- S24h	2Nh- -	2hJ- -	2M2J	dDw
5 nesPT	Jh72	- JS46	- 44J2	- 420N	- 4Jh2	1M10	dDw
5 nDDr p	6- 72	642hJ	640hN	64060	6462S	SM44	dDw
&EwDpnwcmb	1J671	1S4h11	1SJ06N	1S- 404	1S401N	1M11	dDw
&EwDpnwcmb	1J672	4- 601	426hJ	4204J	4- S- 0	1M2N	dDw
Fpecmb	16471	N- JJ4	N6112	N0S- 6	NJJ60	2M11	dDw
Fpecmb	16472	- J06N	- 4N66	- JS1-	- J216	1M10	dDw
HsonPCcmb	16S71	Nh204	hSh- J	N0- h6	Nh2S2	1MMh	dDw
HsonPCcmb	16S72	42J24	42SN6	41N- h	421JS	SMM2	dDw
y nPb cmb	16J71	h6NNS- 1	hhhNS2S	h64J4- 4	h000162	1M10	dDw
y nPb cmb	16J72	4SJJhS-	426hN42	42JS6JS	41h21- 2	2MM2	dDw
tCocmb	11J71	0Sh4161	01NS6JN	6hJ11N6	0S0J- - J	1M64	dDw
tCocmb	11J72	h6SS60	hN46h1	1SS426J	hN- SS0	2M2J	dDw
tpnC	J472	24- 1N00	24JN626	2421J- 6	24- 0- 40	SM0h	dDw
tpnC	J672	44J4h162	4416N2J2	4- 0JSNh4	441J61S-	SM1S	dDw
tpnC	J072	1S62hS4	1SJSJN2	1SJ- 6J2	1SJJ01-	SM61	dDw
KpEDTnC	N- 71	- 62	- J0	- J6	- Jh	SM12	dDw
Lr so	2S671	- 4040N	- 6SJ- -	- JN- 2-	- JJ44J	1M10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	2N611S	2h00Sh	2h4h0S	2h2h- S	2N80	dDw
Lr so	2SN71	1- 64N0h	1414JNN	1- h12SN	1- hS22J	1N0h	dDw
LdTGmb	671	2J- h- J0	2JNN- - 1	2JN- J6-	2J0S410	1N8J	dDw
9 sgOr wcmb	2472	J- NSJ2	J46246	J464J0	J4- JNJ	SNMN	dDw
9 sOgsOr wr	JJ72	0N22NJ	0N66- 2	000- 2h	0N2SN2	SN0S	dDw
9 nPEeor Omb	h471	1010N	10NhJ	101h4	10422	2MJ	dDw
9 nPEeor Omb	hJ71	6420	0S00	6JJ2	66NJ	JM16	dDw
9 nPEeor Omb	h671	h64J	hh01	h2hJ	h6- 0	- M1	dDw
9 nPEeor Omb	h071	- NN4	4626	4J4-	4- J1	hM4	dDw
9 nPEeor Omb	hN71	1S40h	11- - N	112- N	11S1h	4N26	dDw
u r noEb cmb	1JS71	104NS4	1N10- 0	10040h	10NSS0	1M16	dDw
u r noEb cmb	1JS72	J4N2J	J2JN6	JJS06	J4162	2M-	dDw
u cdkr P	6S72	26hNh	262J1	26S41	26420	1MMN	dDw
8 GhwDGhpmw	- 172	- N10	- J42	- N- 4	- 0- 1	4Mh	dDw
8 nTswwcmb	- h72	46N0- 2	46S62J	461h16	46- 0J0	SM14	dDw
. Ghocmb	1S- 71	01- 1hS6	0204- 26	0S0614-	016S0h2	1M4-	dDw
. Ghocmb	1S- 72	- 144JNh	- 20- - J0	- - 46JS1	- 2J4N16	- M14	dDw
I ds Coomb	4J71	46112N0	40- - 026	4J6N2N4	46- 0066	1MMJ	dDw
I ds Coomb	4J72	144JhS	1J121-	1J1h0J	14h2Jh	2N02	dDw
I r PP Comb	N271	104	2SS	210	1h0	11M10	dDw
I r PP Comb	0072	1h-	1NS	210	1h0	hM44	dDw
I r PP Comb	0N72	160	1- J	1- 1	144	1- N60	dDw
I dPdnC	2N71	114N40- 0	1101hN40	11N12400	11602- J4	1M4J	dDw
I dPr p	1S071	16JN	1N60	2S10	1N40	hN04	dDw
I dPr p	1Sh71	16JN	1h42	1hSh	1N- 6	NM4-	dDw
I noomb	2- 72	426J4	4- 24N	4- 066	4- 22-	1N2h	dDw
I TpnCTomb	N671	h- h2-	h- S10	h- h04	h- 6- N	SM10	dDw
I TpnCTomb	NN71	NSJ6- 2	NSh44S	N16h- -	N1S66N	SN01	dDw
I mPPmp	- 471	201N0J	20SN21	201- 6S	201- J2	SM1h	dDw
Ar peomb	1Jh71	hNhS644	1SSh- 111	hNhSNS0	hhJN1N0	1M10	dDw
Ar peomb	1Jh72	- h102JJ	4SJJ- 0N	414JJhh	4S- h411	2MMJ	dDw
AGsPPomb	2S- 71	2042	262J	- 1JS	2N- h	hN01	dDw
AGsPPomb	2SJ71	6N1S	6N6h	62h-	66J0	4N06	dDw
AdC	11N71	1S66-	1S021	11SSJ	1S0h6	1N6h	dDw
AdsComb	4071	26JNN0	20- 4N4	264NJ4	26NS0J	1N06	dDw
RpsComb	2- N71	J0JN1	6SNSJ	JN04J	JhS44	2N00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4N1J0	4N100	40J0h	40h01	SM01	dDw
YTTr peomb	10271	2N24S	200h6	2040h	20N- N	1M10	dDw
YTTr peomb	10272	1411-	1- N- J	1- 246	1- 0- 1	- M4-	dDw
YTTr peomb	10671	1NJ64	1NJNh	1NNSJ	1N6J-	SM01	dDw
YTTr peomb	10672	1h10J	1h1hN	1h24N	1h2S0	SM1h	dDw
YTTpomb	Nh71	1- hJN4N4	14J412J1	14Sh2642	141h04Jh	2M1J	dDw
YTTpomb	Nh72	144N42-	1JS0S- -	1J2J62S	14h- 6h2	2M0S	dDw
ZdCd	6672	JNN2J	JNNhJ	JNJS0	JN042	SMJ	dDw
ZqpdnComb	hS71	- JhNS	- 0N44	- 0h11	- 024J	2M14	dDw
ZqpdnComb	h171	N21h	0Nh4	N- 44	N1J-	2MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-446712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2-7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	N1046N	N14JS6	NS6h4S	N12h01	SM00	dDw
qCTb nCE	12171	10h2	1Nh2	2SSh	1Nh0	JM02	dDw
qpwr Ccd	0J72	1hN-	1NhN	1NN6	1h2-	2M0J	dDw
Bspcmb	1-J71	4600JJ	466-62	46S6NS	464h-2	SMM1	dDw
Bspcmb	1-071	N1S640	N26J1-	N1SJhJ	N1Jh1N	1M12	dDw
Br pEPmb	h71	4S1J	4SS-	4SS4	4SS0	SM10	dDw
Bcwb mTG	2Sh71	606-10N	6NS0J24	6NJ--J0	6NSNS2S	SM06	dDw
Bcwb mTG	2Sh72	-206-2N	-2-N246	-2-2066	-24h11-	SM0-	dDw
Bpmb cCr	N171	NN0N	h20N	h-2S	h1Jh	2M06	dDw
5sob cmb	1SN71	1J4	101	2SN	10N	1JM01	dDw
5sob cmb	1S671	4410	464-	4260	444-	4M2J	dDw
5sob cmb	11171	2S01	2S61	2S4N	2S6S	SMMN	dDw
5sPlcmb	4-71	1h-0hh	1h200S	1N0NJ-	1h1404	1M06	dDw
5sPlcmb	4471	--1-461	--226JJ	-2460J0	-2h42h1	1M26	dDw
5spenC	1271	-h06-61	4S-12J1	4S6-4J4	4S2-6Nh	1MSh	dDw
5spenC	1272	4h-06	4h4SS	JS--0	4h0S4	1M1S	dDw
5GPmpcCr	-J71	22hJ010-	2664S202	2N41J120	26SS41h1	1SM01	dDw
5GPmpcCr	-J72	21hhS1	222h6-	226SS1	222hJJ	1M10	dDw
5Gpmb cmb	J272	4-04S	4--Jh	4-2NJ	4-461	SM16	dDw
5nesPT	Jh72	4-0hS	42h-J	4-64-	4-4J6	1MSJ	dDw
5nDDr p	6-72	6N142	6040h	6N6hJ	6N1S6	SMMh	dDw
&EwDpnwcmb	1J671	1-h0NJ	1-h20S	14S10-	1-h04-	SM12	dDw
&EwDpnwcmb	1J672	J00-0	JN4J4	J0242	J0N11	1MSJ	dDw
Fpecmb	16471	116J6N	11h2-4	114h46	116h16	1MMJ	dDw
Fpecmb	16472	404-N	404S1	461-6	46hh2	1MMN	dDw
HsonPCcmb	16S71	122h1-	11NhJ4	11h441	12S4-6	1M0h	dDw
HsonPCcmb	16S72	JN1--	J60N0	J6N00	J0266	1M11	dDw
y nPb cmb	16J71	1SSJhN26	1SS06S1J	hN210SS	hhNJN40	1M4-	dDw
y nPb cmb	16J72	422116h	42h-N0-	4241-00	42J214S	SMMN	dDw
tCocmb	11J71	01206J6	02S21JJ	0--N6S4	0222NSJ	1M4N	dDw
tCocmb	11J72	h0J624	h06J1S	h6N01h	h0-61N	SM44	dDw
tpnC	J472	-1-JN2N	-141J11	-11S4SN	-12h24h	SM-	dDw
tpnC	J672	J01-2S-h	JJ6-2102	JJhh1S6J	J62J10Jh	1Mh	dDw
tpnC	J072	140h6JJ	1404042	14J240-	146NhJ0	SMh	dDw
KpEDTnC	N-71	420	466	421	4-N	JM6	dDw
Lr so	2S671	-21-61	-24-0S	-2-JJS	-2-Sh4	SM4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU14	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpro:	2S2- 7S0712 14:40:JJ	&sTsUdP usb r:	S46q. FUM

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	20S2hN	20- J- J	26N66S	20SN- 1	SM12	dDw
Lr so	2SN71	12N0N44	12N6J2h	12N222S	12NJJ- 1	SM4-	dDw
LdTGmb	671	2J- 2N- 6	2J6h210	2J6N0hS	2JJ6h4N	SMM2	dDw
9 sgOr wcmb	2472	6J042J	64- JNh	64- S0-	64NS2h	1M46	dDw
9 sOgsOr wr	JJ72	1SJ1S12	1S- 6141	1S4NhN2	1S4J- 0N	SM00	dDw
9 nPEeor Cmb	h471	1- N4h	14141	14S16	14SS2	1NSJ	dDw
9 nPEeor Cmb	hJ71	N211	00h4	N1S-	NS- 6	2M0h	dDw
9 nPEeor Cmb	h671	1S1S4	hN2h	1S10h	1SS- 0	1MM4	dDw
9 nPEeor Cmb	h071	401N	JS- 4	JSSh	4h2S	- MN	dDw
9 nPEeor Cmb	hN71	1- S1J	1- NS0	12hN2	1- 26N	- M2	dDw
ur noEb cmb	1JS71	2- h126	2- h- N1	2- J- - 4	2- 0h40	SM1J	dDw
ur noEb cmb	1JS72	02666	046J0	02J22	0- 2N1	1M0-	dDw
ucdkr P	6S72	2- N6S	22h- 2	220N2	2- 1h1	2M2	dDw
8 GhwDGhpmw	- 172	- J10	- 660	- 2JS	- 40N	6NS0	dDw
8 nTswwcmb	- h72	JS2S4h	4Nh626	4N- N- -	4h1N- 6	1MNh	dDw
. Ghocmb	1S- 71	0S6J102	014Sh6S	0SN0S6-	0Sh00- 2	SMJ	dDw
. Ghocmb	1S- 72	- 2N2JN1	- 260- 01	- 2N61N0	- 20N01-	SMS	dDw
I dsCocmb	4J71	46h4JJJ	406NJNN	464J644	40S2h2h	1M2	dDw
I dsCocmb	4J72	1J16SN	14hhN2	14hhSN	1JS4hh	SM04	dDw
I r PCcmb	N271	22h	1N1	160	1h2	16M0S	dDw
I r PCcmb	0072	26-	200	210	2J2	12M4h	dDw
I r PCcmb	0N72	2S4	1N0	2SN	2SS	JMN	dDw
I dPdnC	2N71	1J- 6242-	1J6- 0JJ0	1JS1- S1-	1J- - 0664	2NS4	dDw
I dPr p	1S071	1NJS	10JS	1Jh2	10- 1	0M-	dDw
I dPr p	1Sh71	2S2J	1JSS	1h10	1N14	1JM2N	dDw
I nocmb	2- 72	40- 20	46hJh	46- 66	46NN4	1NS-	dDw
I TpnCTcmb	N671	116- 2-	110224	11- 40N	11J60J	1M0h	dDw
I TpnCTcmb	NN71	hh404h	1SS6226	1SSS- N1	1SSS4J2	SM0	dDw
I mPmp	- 471	26S2- 2	2J66h6	2J- 01J	2J6NN1	1M20	dDw
Ar pecmb	1Jh71	1SS6h0J0	1S- h2ShN	1SS0J6JS	1S10h16N	1MM1	dDw
Ar pecmb	1Jh72	42J2h04	4140- N0	41JS161	41N- JS0	1M44	dDw
AGsPcmb	2S- 71	- - Sh	- 626	- - S1	- 412	JM4-	dDw
AGsPcmb	2SJ71	04- 6	04N6	N16h	06h0	JM-	dDw
AdC	11N71	16hN6	164J2	102hJ	16h11	2M2	dDw
AdsCcmb	4071	2- 0S6N	24S- - 2	2- 6N16	2- NS02	SMM2	dDw
RpsCcmb	2- N71	66606	0S120	01J61	6h4JJ	- M02	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU14	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:40:JJ	&sTsUdP usb r:	S46q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
VsCsoomb	J172	JhhNJ	JNNJS	JNJhh	Jh14J	1M2J	dDw
YTTr peomb	10271	- 00h6	- h260	- NJ6J	- NJ4-	1M11	dDw
YTTr peomb	10272	1N01h	1h4- 0	1hSJN	1hS01	1MMN	dDw
YTTr peomb	10671	24h66	26S- J	2J6N4	2JJ62	2M1-	dDw
YTTr peomb	10672	220Jh	2- S- 0	22h4-	22h1-	SM62	dDw
YTTpomb	Nh71	14- 2J062	14J0h- h2	1JSSJJhh	146- 6h1N	2MJ	dDw
YTTpomb	Nh72	1J4J622	1JJ4662	1JSNh4N	1J- 6411	1MN	dDw
ZdCd	6672	JhJhN	JhJJN	JhJhN	JhJNJ	SM34	dDw
ZqpdnComb	hS71	26- SS	26Jh-	2661N	26JS4	SM60	dDw
ZqpdnComb	h171	6S1N	JNh-	JNS1	JhS4	1MM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r :	S40q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	Nh- JNh	NNSh41	N0- 6NJ	NN20- N	1M14	dDw
qCTb nCE	12171	126hN	1- 2J0	12J64	12N4S	2NM6	dDw
qpwr Ccd	0J72	0SSJ	0SJ2	6NNN	6hN2	1M21	dDw
Bspcmb	1- J71	0N1h6-	00J6- 1	001212	00626N	SM0S	dDw
Bspcmb	1- 071	1- 0- S0J	1- 040- 1	1- 0- 62h	1- 0- N11	SMS6	dDw
Br pEPRcmb	h71	4J24	4- hS	4666	4J20	- MSJ	dDw
Bcwb mTG	2Sh71	6h- 6h6h	601JJ4N	6N041J2	6N4222-	1M00	dDw
Bcwb mTG	2Sh72	- 26N0Jh	- 264462	- 26- 1N1	- 26J460	SMSh	dDw
Bpmb cCr	N171	0400	N- 44	061h	0N14	JMMJ	dDw
5 sob cmb	1SN71	42J	4SN	410	410	2MSS	dDw
5 sob cmb	1S671	4h- 4	40- 4	4206	464N	0M26	dDw
5 sob cmb	11171	4N26	J2SJ	4hJ-	4hhJ	- MM6	dDw
5 sPlcmb	4- 71	0S- 0NJ	0SN4hS	012N22	0SN- 66	SM04	dDw
5 sPlcmb	4471	11h1- JNh	11h00h1S	12SJ0440	11hN2hN2	SM0S	dDw
5 spenC	1271	6126hhh	62002S0	6- 10- SN	624SJSJ	1M01	dDw
5 spenC	1272	06NS1	0JNNN	00- 2S	0660S	SMMJ	dDw
5 GPmpcCr	- J71	214NN010	2JS1J41J	201SN4- 1	24J- 0J21	11MM0	dDw
5 GPmpcCr	- J72	2Sh0SJ	21404-	21JN2J	21- 424	1MM-	dDw
5 Gpmb cmb	J272	J4014	JJ10h	J- 014	J4J- 6	1MM0	dDw
5 nesPT	Jh72	- JN42	- 4Nh6	- J20S	- J- - 6	1MMJ	dDw
5 nDDr p	6- 72	21N1- 0	214640	21J24-	216SSh	SMM6	dDw
&EwDpnwcmb	1J671	6421-	6J4J-	66N4-	6JJS-	2MS1	dDw
&EwDpnwcmb	1J672	20- 2N	260- 4	26N- S	26h64	1MMN	dDw
Fpecmb	16471	4NJ6J	JS201	4Nh04	4h20S	1MM1	dDw
Fpecmb	16472	2SS- 2	1hh2N	1h00N	1hh1-	SM04	dDw
HsonPCcmb	16S71	J611h	J6- - 0	J04SS	J661N	1M21	dDw
HsonPCcmb	16S72	20SS0	261- 2	26J2-	26JJ4	1M0J	dDw
y nPb cmb	16J71	h4N4N6N	hNJSNh-	hNJ6hJ-	h0- ShSJ	2MMh	dDw
y nPb cmb	16J72	420hS00	4160- S6	424J4S4	42- SJh6	1MM6	dDw
tCocmb	11J71	6h4- 4J6	02Sh2- N	02hJ621	014h4- N	2MM0	dDw
tCocmb	11J72	hhS1N2	hN6464	hN41S-	hN6h16	SMM1	dDw
tpnC	J472	2J044Nh	2J- 42- S	2J2h14S	2J4JhJ-	SMMN	dDw
tpnC	J672	46hS60hJ	4J112h22	40102hh1	46- h0J0S	2MM1	dDw
tpnC	J072	11S6SJ1	11S- 22S	1ShN6Jh	11S264-	SMM4	dDw
KpEDTnC	N- 71	- 2J	- 1h	- 11	- 1N	2MM6	dDw
Lr so	2S671	- - JN- 10	- 261S66	- 2- N0J1	- 2N6S4J	1MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tusb r:	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20N2Sh0	20S6J11	20S6NSJ	20- 1NS4	1Mlh	dDw
Lr so	2SN71	12NSN601	12JhS- 11	12J64- 2h	126J44- 0	1N36	dDw
LdTGmb	671	24J1- 61	2J4S46-	2J- 1160	2JS066-	1M1J	dDw
9 sgOr wcmb	2472	h4hS1N	h- 4hS0	h24S64	h- Jhh6	1M4	dDw
9 sOgsOr wr	JJ72	hN6- 0S	h0N6S4	h66h1-	h002h6	1N3S	dDw
9 nPEeor Omb	h471	21SJS	2214-	21642	21612	2Ml-	dDw
9 nPEeor Omb	hJ71	1SNh6	1S0S4	111- S	1Sh1S	1M1J	dDw
9 nPEeor Omb	h671	14116	1- h41	14SN2	14S46	SM06	dDw
9 nPEeor Omb	h071	66NJ	6420	6- h-	6JS2	2M46	dDw
9 nPEeor Omb	hN71	102hJ	1060S	10h0h	1064N	1M14	dDw
u r noEb omb	1JS71	11- 42h	1124N0	11- 114	11- S1S	SM42	dDw
u r noEb omb	1JS72	- 464N	- JJh0	- 464J	- 4h6-	1Ml0	dDw
u dkr P	6S72	2SNS2	2SSS1	1hhh4	2S266	2M2h	dDw
8 GhwDGhpmw	- 172	6- 6S	641S	64S2	6- hS	SM42	dDw
8 nTswwcmb	- h72	44J4S-	4- 06SS	444- 6N	4424J0	SM16	dDw
. Ghocmb	1S- 71	01S60h0	02S4J0h	0Sh6N0S	01- 6SN2	SMM-	dDw
. Ghocmb	1S- 72	- 2SNN42	- - SJJ1S	- 2J4- 4h	- 2J62- -	1M4h	dDw
I dsCocmb	4J71	4J0J0h-	4JJ4NJ-	40S- N46	46114h0	1M0J	dDw
I dsCocmb	4J72	1404hh	1J24- S	140h- S	14h2N6	1MM-	dDw
I r P Ccmb	N271	1h6	1N0	2- S	2SJ	1SM10	dDw
I r P Ccmb	0072	1- -	120	1- S	1- S	2Ml0	dDw
I r P Ccmb	0N72	1Sh	1SN	11-	11S	2M41	dDw
I dRdnC	2N71	14S66N0N	1- hSJ0N4	14Sh1- J4	14S21- - h	SM02	dDw
I dPr p	1S071	N- 11	N411	N- S-	N- 42	SM02	dDw
I dPr p	1Sh71	0000	N4J-	0N6h	NS- -	4Ml6	dDw
I nocmb	2- 72	1- 0002	1- h142	1- N- 6S	1- N42J	SMS	dDw
I TpnCTcmb	N671	J46J2-	JJ2- J4	J44- 2J	J400- 4	SM06	dDw
I TpnCTcmb	NN71	400JN- 6	4h- 1hN-	4h2112S	4N06- 1-	1M0h	dDw
I mPmp	- 471	- 11hhS	- 2S4- J	- 21h26	- 1N110	1M6N	dDw
Ar pecmb	1Jh71	hh2060S	1S12- NN2	1S1S- 646	1SSJ10- -	1N30	dDw
Ar pecmb	1Jh72	42S- hS-	4S6hN- 1	42Jh6J-	41000h6	2M4	dDw
AGsPbmb	2S- 71	2J- 4	2- 2J	22SS	2- J-	0M16	dDw
AGsPbmb	2SJ71	J406	J2J1	J1Jh	J2h6	- N3N	dDw
AdC	11N71	Jh0hN	6ShS-	620S2	611- J	2M4S	dDw
AdSCcmb	4071	- 46J0J	- JS0Nh	- JS21N	- 4h1h4	SM0J	dDw
RpsCcmb	2- N71	J0SS-	Jh1NS	JNhh0	JN- h-	2N30	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:JS:J4	&sTsUdP u sb r :	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0- J- 1	020J0	01- JS	02J46	1Ml2	dDw
YTTr pe omb	10271	14NJS	1J6NJ	1J226	1J2J4	2N04	dDw
YTTr pe omb	10272	0J1h	0- 04	0- h0	04- S	1N8J	dDw
YTTr pe omb	10671	111NN	11SSJ	110- 1	11- SN	- M4	dDw
YTTr pe omb	10672	1J106	1JJhN	1J6N0	1J4N0	1N00	dDw
YTTpomb	Nh71	1- 6hh46S	14S04- 0S	1- N- S- 0N	1- N6NS6h	1M0	dDw
YTTpomb	Nh72	142hh4N	1441- 0J	14J4N41	1442SJ4	SNM6	dDw
ZdCd	6672	2004N1	204hhS	26h2S-	20- Nh2	1MJ	dDw
ZqpdnComb	hS71	41SJ-	4S10J	412S4	4SN11	1M6	dDw
ZqpdnComb	h171	h412	h6NN	N661	h2J4	JN04	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&biqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	2072	uJ2u44	u444aS	u46J11	u40a4a	SR31	Ol l
d. iqe C. E	12171	J1J1	JS26	461u	4a- 2	JR36	Ol l
dll p. qO	0J72	02JS	0S40	010S	01J6	1R42	Ol l
Bwldpe	1- J71	6S406a	61462S	6S1J42	6S6a00	1R12	Ol l
Bwldpe	1- 071	1S6a4- 1	1S6u6- 0	1S4aJ01	1S62J46	1RS6	Ol l
BplE&dpe	a71	- J4a	- 6- 1	- 60S	- 610	1R01	Ol l
Bdqe biG	2Sa71	66uaJa2	6aJ41u0	600uSJ1	6uS0200	1Rau	Ol l
Bdqe biG	2Sa72	- - - 6a41	- 2SaJuJ	- 200402	- 204666	1RaJ	Ol l
BlOe q p	u171	a24J	a2- 0	a22S	a2- 4	SR14	Ol l
9 wne dpe	1Su71	2J4	2- -	1a2	226	14RS6	Ol l
9 wne dpe	1S671	41a2	4406	- a60	4212	6RSJ	Ol l
9 wne dpe	11171	- S10	2aJJ	2a- u	2a0S	1R a	Ol l
9 w&Odpe	4- 71	4Ja2- 0	46J4- u	4Jaa- a	461J- u	SR04	Ol l
9 w&Odpe	4471	0u412au	0u46121	0664Ju2	00u4SSS	1R -	Ol l
9 wlr C.	1271	- 61a266	- 06u12-	- 02146J	- 0S2aJ1	2RS6	Ol l
9 wlr C.	1272	44406	44044	46- aa	4J2S6	2R S	Ol l
9 G&Clq p	- J71	214- J6aS	2J22- - 66	20Sa60Su	24JuJ2JJ	11R0-	Ol l
9 G&Clq p	- J72	21S0a4	21Ja1S	22S0- 1	21Ju12	2R S	Ol l
9 GlOe dpe	J272	462a1	46144	46J62	46- - -	SR46	Ol l
9 Or w8	Ja72	44a2u	44ua1	4JSu4	44a6u	SR2-	Ol l
9 Ot t pl	6- 72	166061	164121	16J04a	16JJ44	SRuS	Ol l
TEl t lOl dpe	1J671	u0J11	u014-	u42S0	u62u0	2R1S	Ol l
TEl t lOl dpe	1J672	- 6J- 0	- JaSJ	- 644S	- 62a4	SRa4	Ol l
Ulr dpe	16471	66Ja2	66J06	60421	66u6-	SR02	Ol l
Ulr dpe	16472	26a04	26J60	20S4u	26u6-	SRa6	Ol l
HwnO&q dpe	16S71	064J-	0u- 14	0u1- S	006- 2	1R 2	Ol l
HwnO&q dpe	16S72	- Ju2J	- 626-	- 60J1	- 620a	1R2u	Ol l
h O&e dpe	16J71	aJSuaSu	au- J411	a0uuS0J	a01S0au	1Ru2	Ol l
h O&e dpe	16J72	420J- 6J	4210202	41S- a60	41auu6u	2RSu	Ol l
&ndpe	11J71	0S- 2466	012S64J	0S61a1a	0S01600	SR6-	Ol l
&ndpe	11J72	auJ1- 4	a0u11a	a0164S	a0u2a0	SR6a	Ol l
&C.	J472	- SS122S	2aJaJu4	- S- 661-	2aaa1- a	1R2a	Ol l
&C.	J672	J- 0J24aS	J2a0- 646	J44Sa0- J	J- 011aJ0	1R 4	Ol l
&C.	J072	1- u114J	12u16uu	1- S1aa6	1- 216Sa	- Rau	Ol l
KlEt iC.	u- 71	- 14	- - 6	- 2a	- 26	- R31	Ol l
Lpwn	2S671	11Sau2S	11SJ200	1S0u4uS	1Sa0uJa	1R34	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&piqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	a2SSu6	a1a02-	a1416-	a10aa1	SR 6	Ol l
Lpwn	2Su71	4JuSaJ4	4J- 064J	4JS002u	4J421Sa	SRu1	Ol l
LqjGqpe	671	24- 1S26	261Suaa	262JJ16	2JJJu14	4R24	Ol l
y wg. pl qpe	2472	aSJJS1	ua6- u0	ua- JJu	uau4u2	SR6a	Ol l
y w. gw. pl p	JJ72	a4a1a4	a- 4140	a4a- J-	a442- 1	SRa2	Ol l
y O&Er np. be	a471	1u- J4	1u4S4	10a2a	1u22a	1R4-	Ol l
y O&Er np. be	aJ71	1S- 62	aaa6	1SSS4	1S121	2RS0	Ol l
y O&Er np. be	a671	1204u	12a4S	1- SaS	12a26	1R -	Ol l
y O&Er np. be	a071	JuuJ	6SJ1	Ja4-	Ja6S	1R42	Ol l
y O&Er np. be	au71	1J4S1	1616u	1JS- 4	1JJ- 4	- R0-	Ol l
mpOnEe qpe	1JS71	1J- u- S	1JJS40	1JS1- a	1J- SSJ	1R60	Ol l
mpOnEe qpe	1JS72	40- 00	466JJ	4JuJ1	4662u	1R64	Ol l
mqOkp8	6S72	20a6u	20a01	2u- 6u	2u1S2	SRu2	Ol l
NGOl t GOlbl	- 172	4142	44a2	42- 4	42aS	4R2-	Ol l
NOiwl l qpe	- a72	46060a	40204J	40S- 0-	40S266	SR14	Ol l
F GOnqpe	1S- 71	6a6S40J	0S644J-	0Su014u	0S- 0- Ja	SRa6	Ol l
F GOnqpe	1S- 72	- 24u1- 6	- 21- 210	- 2S10J-	- 221S- J	SR0J	Ol l
DOw. nqpe	4J71	46Saaa6	4064616	461uJJ0	4664- ua	1Ru6	Ol l
DOw. nqpe	4J72	1J2SuS	1JS14a	14a6Ju	1JS62a	SRuJ	Ol l
Dp&p. qpe	u271	2JJ	101	104	2SS	2- Ru2	Ol l
Dp&p. qpe	0072	1- S	10S	1J-	1J1	1- R S	Ol l
Dp&p. qpe	0u72	1- u	111	120	12J	1SRu-	Ol l
Dq&qOC.	2u71	14- - 2- u6	14J2S- 4-	1462u1u2	144a- 6- 0	1RS-	Ol l
Dq&vpl	1S071	4a26	J4S1	J4a-	J20-	JR00	Ol l
Dq&vpl	1Sa71	J1S1	4626	J- 4-	JS2-	0R26	Ol l
DOnqpe	2- 72	u402a	u664a	uJuS2	uJ026	1R12	Ol l
DilC. iqpe	u671	- 6120S	- 6402-	- 6- 06a	- 6- 2J4	SR4a	Ol l
DilC. iqpe	uu71	- - S61- a	- 2a4u- 1	- - 1a0a6	- - S6a22	SR u	Ol l
Db&bl	- 471	2u0444	2ua- 04	2a1aaS	2ua6S2	SR0a	Ol l
cplr qpe	1Ja71	aa- J0Ju	1SSJaS4S	1SSau224	1SS- 1SS0	SRuJ	Ol l
cplr qpe	1Ja72	41S4JS-	4142- J1	4S0a- S2	41Su01a	SR00	Ol l
cGw&qpe	2S- 71	- 1Ja	2042	26- 4	2u4J	aR0J	Ol l
cGw&qpe	2SJ71	6ua4	606S	6a1a	6uJu	1R24	Ol l
cq	11u71	- a4- -	- au- 4	4S1Sa	- a0a2	SRu6	Ol l
cqjw. qpe	4071	11- uJ1	112Ju2	11- - 40	11- 26S	SR16	Ol l
5 lw. qpe	2- u71	J121-	JSJJa	J21- -	J1- S1	1Ru4	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	& l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T &piqC. MwOlCl :	1
Twip A cqe p d Qobdpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	J172	aS242	a1621	uu6u-	aS1u2	1R6-	Qtl
Yiiplr dpe	10271	1aJ0-	2S124	2S- u-	2SS20	2RS6	Qtl
Yiiplr dpe	10272	1S16S	aa6J	a6- 1	aa1a	2R6a	Qtl
Yiiplr dpe	10671	1420J	14S66	141SS	14140	SR0a	Qtl
Yiiplr dpe	10672	10- SS	16uJS	104S1	101u4	1R01	Qtl
Yiildpe	ua71	1- 02J42a	1- J64042	1- aS01J-	1- 0- 2441	1R2J	Qtl
Yiildpe	ua72	14622- J	1446uSa	14Jaa20	14J6- 24	SR10	Qtl
Zq O	6672	aaJS-	a01JS	aau0a	auu44	1R1S	Qtl
ZdOC. dpe	aS71	- 2uaS	- - J66	- 2- uu	- 2a4u	1R0a	Qtl
ZdOC. dpe	a171	026S	066a	0u6a	0Jaa	4RSu	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 44671	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SM2.	&8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CcT
q8mb cCcmb	2072	04626S	0- 0026	0- a1Sa	04S6. a	SR6	dDl
qCTcb nCE	12171	24 S	21. 2	2242	22.	R.0	dDl
qpl r Ccl	0 72	2- . 1	2- 1a	22a4	2- - 1	2R	dDl
Bwpcmb	1- 71	- a S41	- a00S-	- a4- 0	- a 0S0	SR46	dDl
Bwpcmb	1- 071	6a4a4a	6a4- 01	60- 1a2	6aSaSS	SR.0	dDl
Br pE8cmb	. 71	- S66	- 1S2	- SS4	- S 0	1R6-	dDl
Bcl b mTG	2S. 71	6. S- - . 1	60S0406	6. - 24- 4	6a40060	1R0.	dDl
Bcl b mTG	2S. 72	- 2 S- 6a	- 2S4. -	- 16 S	- 2S6. 0	1R.2	dDl
Bpmb cCr	a171	6a6.	60a	6a6.	6a41	SR0S	dDl
9 wob cmb	1Sa71	1SS	12	1- -	11.	14R -	dDl
9 wob cmb	1S671	41S1	4a1a	4126	4- 4a	. R6	dDl
9 wob cmb	11171	14 0	16- 6	1 - 6	1 4-	Ra2	dDl
9 w8lcmb	4- 71	214 20	21- a2S	212 2a	21- 62	SR40	dDl
9 w8lcmb	4471	- 06a1S	- 61116S	- 661S 4	- 6aS1S6	2R1a	dDl
9 wpenC	1271	- aaa022	- a6240-	- . - S0 2	- a. - . a2	SRaa	dDl
9 wpenC	1272	40. . 6	4a00-	4. 2 S	4a60-	1R.S	dDl
9 G8hpcCr	- 71	22. 022- -	26a142 0	2. 10. a. 6	26- 2212.	11R.S	dDl
9 G8hpcCr	- 72	2261aS	226 . 6	2- 1. aa	22a2	1R42	dDl
9 Gpmb cmb	272	- 14-	- 102	- 1aS2	- 16 4	SR61	dDl
9 new8T	. 72	- 6- 0-	- 4a1	- 6S22	- . .	1R2	dDl
9 nDDr p	6- 72	6011	60004	60- . 6	6042a	SR4.	dDl
&El Dpnl cmb	1 671	a6014	a0 a6	a a4-	a6014	1RS1	dDl
&El Dpnl cmb	1 672	- 0. 44	- a6a	- 02- .	- 0S10	2Ra	dDl
Upecmb	16471	6. - - 2	0S. S0	6a400	6. 02	1R00	dDl
Upecmb	16472	2a16-	2aaa	2a2a4	2a444	1R.6	dDl
Hwon8Ccmb	16S71	aSS66	aS4S1	06621	0. S2.	2R6	dDl
Hwon8Ccmb	16S72	- 0aa1	- 02 2	- 06 0	- 0 . 6	SRa	dDl
h n8b cmb	16 71	. a0- 00	. . - 62- 2	. a11016	. a0- . S0	SR6-	dDl
h n8b cmb	16 72	4142aa6	416. 60S	41- S 1S	41406a.	SR4a	dDl
tCocmb	11 71	026SSa-	02a614	01- 1- 64	022 a64	1R1	dDl
tCocmb	11 72	. 0- 24a	. S. 4S	. 60S-	. 6- 041	1R1.	dDl
tpnC	472	22 - 01-	22. S4a2	22a111a	220 1S4	SRa4	dDl
tpnC	672	416aS0S1	411 4006	4S. 4S126	412 a - 4	SR.2	dDl
tpnC	072	1SS0S. a	. 01104	. 0S26S	. a2a44	2R14	dDl
KpEDTnC	a- 71	- 61	- .	- 1S	- 4-	aR42	dDl
Lr wo	2S671	4 Saa2	4 a2- a	4 6. 2	4 - 4a	SRa6	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tuwb r :J	Na
9 8r CTl wb D8 :t&:J	y h SM2.	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :uwb r :J	S4. qF UMR

NwpwbrTrp	ywl	9Nl 1	9Nl 2	9Nl -	9Nl yrwC	9Nl Fl &	5CdT
Lrwo	2S071	-0-S-2	-a1244	-a2 16	-0a.-1	1R6	dDl
Lrwo	2Sa71	1001Sa1	10002.4	10a6.11	100a42.	SR4	dDl
LdTGmb	671	2 1 S40	2 S.4a	2 aaS01	2 1-	1R4-	dDl
ywgCrlcmb	2472	6- 4a4	642a.6	6 10SS	64--6S	1R26	dDl
ywCgwCrlr	72	6a16-	.601	61-aS	6-S01	SRaS	dDl
yn8Eeor Cmb	.471	121a.	126-1	120.a	12 -.	2R1	dDl
yn8Eeor Cmb	. 71	4SS1	44S1	41S1	4160	RSS	dDl
yn8Eeor Cmb	.671	621a	61a	a1S	6S01	-R04	dDl
yn8Eeor Cmb	.071	260	24 S	2642	2 a.	4R6.	dDl
yn8Eeor Cmb	.a71	6020	6600	0Sa	6a-S	-R26	dDl
urnoEbcmb	1 S71	16S22	161.14	1 466-	1 a.-4	2R.	dDl
urnoEbcmb	1 S72	4.14S	4a.06	4.2 -	4.12-	SR2a	dDl
ucdkr8	6S72	2S44	2S -	2S--a	2S4-.	SR4a	dDl
NGhl DGhpml	-172	2-0	2SS.	21 S	210a	aR4.	dDl
NnTwl cmb	-.72	-a0S2a	-a1S12	-a-. 1	-a-..0	SR0a	dDl
FGhocmb	1S-71	014S4-S	01SS.44	0S00aa.	01S6421	SR4	dDl
FGhocmb	1S-72	-22 -2.	-2Sa0 4	-22-4S4	-21.16-	SR2a	dDl
IdwCocmb	4 71	401-S66	461200	46a0-	4601S6	1R12	dDl
IdwCocmb	4 72	14.S11	14-0a2	14 46	14611-	1Ra2	dDl
Ir8Ccmb	a271	1-	a	141	12S	2 R6S	dDl
Ir8Ccmb	0072	1 0	10S	2S-	100	1-R61	dDl
Ir8Ccmb	0a72	1-6	126	1-S	1-1	-Ra	dDl
Id8dnC	2a71	1S. . 022	1124-1	11-0a--6	112S 0-a	1R0-	dDl
Id8vrp	1S071	42S1	41S1	4- .	422S	-RS.	dDl
Id8vrp	1S.71	41S1	4142	-.26	4S 6	2Ra4	dDl
Inocmb	2-72	4S624	4S2-.	4S.SS	4S aa	SRa2	dDl
ITpnCTcmb	a671	10S4 .	10-6-1	10SS4	101-0a	1R14	dDl
ITpnCTcmb	aa71	1 2.S6-	1 201a6	1 .6-24	1 Sa a	2R4	dDl
Im8mp	-471	26.6-	201244	26.a0a	20S2 -	SR2	dDl
Arpecmb	1 .71	1S1-a --	1SS-S6..	1S2S4aS0	1S1246aS	SRa0	dDl
Arpecmb	1 .72	4S0S2a0	4S1..21	-.. 042	4S2a6 S	SR4	dDl
AGw8mb	2S-71	2 10	2 -4	-110	202-	12R	dDl
AGw8mb	2S 71	6 6.	6-00	6S1a	6-21	4R42	dDl
AdC	11a71	11 6-	11a14	112-a	11 -a	2RS	dDl
AdTwCcmb	4071	1-S214	12aa2	1-1.6-	1-S--4	1R21	dDl
5pwCcmb	2-a71	-12a.	-S 46	2.0-	-S 24	2R	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SM2.	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMt8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	172	6 2-	66011	66216	66S 4	1R14	dDI
YTTr pecmb	10271	21142	2126a	21260	21226	SR 4	dDI
YTTr pecmb	10272	1S6- a	1S14.	1S4aa	1S42	2R4S	dDI
YTTr pecmb	10671	1460	1 - 6a	144 S	14a- 1	- R22	dDI
YTTr pecmb	10672	16. S	10- a4	1004	10- 6S	2R2.	dDI
YTTpcmb	a. 71	14S2SS2.	141 S .	1416- Sa4	14112024	SR 0	dDI
YTTpcmb	a. 72	146S612	1424122	1- 2SSS	141224	- R 1	dDI
ZcCd	6672	4- 46-	4- 10	4- 26-	4- - SS	SR 4	dDI
ZcpdnCcmb	. S71	20461	2a246	2a- 2.	2aS12	1R01	dDI
ZcpdnCcmb	. 171	64a	6400	aa	62a2	R4a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:dQobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqI
d8be qFqpe	20 2	2S7J114	2SJ661y	2S61717	2SJ1S1J	SU6u	Qt l
dFiqe . Fh	121 1	2Juu246	26uyu7y	267y244	267y11S	1Uy2	Qt l
dIl pFqO	0J 2	66041	661yu	60S1J	666J1	SU62	Qt l
Bwlqpe	17J 1	2u2y46u	2u00S60	2y1Sy7S	2u024uu	1U42	Qt l
Bwlqpe	170 1	4uy6u00	J17J121	J1Juu2J	JS676Su	2Uu6	Qt l
Bplh8qpe	y 1	6120yJ	62J7y0	6261J1	62144u	1U21	Qt l
Bqe biE	2Sy 1	62271uS	61140u6	6SJuu4y	6172201	1U76	Qt l
Bqe biE	2Sy 2	2yS1J76	2u7u606	2y2u146	2uuy4J7	1UJy	Qt l
Bl. e qFp	u1 1	42S1	7y60	7uSy	7yy2	4Uy4	Qt l
3 wne qpe	1Su 1	J1u64	J1u14	J2SJ6	J1y11	SU2J	Qt l
3 wne qpe	1S6 1	024S0	061y4	07yJu	041u6	2UJ0	Qt l
3 wne qpe	111 1	6167u1	67S6u1	67Su6S	62Jy04	1U77	Qt l
3 w8Qqpe	47 1	76J4S60	70uu2u6	70JS0yy	7071SJ1	1Uu6	Qt l
3 w8Qqpe	44 1	Juy44247	617J4676	Jy270u12	Jyu4JJ64	2U2S	Qt l
3 wlr . F	12 1	26420yJ	2020742	20u0S4u	201yS62	2U60	Qt l
3 wlr . F	12 2	76S11	7u67J	70y66	70J70	7U67	Qt l
3 E8 lqFp	7J 1	2244647	22460uJ	2140uuy	22171S6	2UJJ	Qt l
3 E8 lqFp	7J 2	14y2J	141u2	17Ju2	1427S	4U07	Qt l
3 El. e qpe	J2 2	0124y7	0127y0	0SJ714	01SS6u	SUJu	Qt l
3 . r w8	Jy 2	12uSySu	12641y7	120210y	1202420	SU66	Qt l
3 . t t pl	67 2	117S02Ju	1Su6u060	11Sy60J2	11SySy26	1Uyu	Qt l
Thl t l. l qpe	1J6 1	010	660	0JS	011	JUyS	Qt l
Thl t l. l qpe	1J6 2	777	2u0	76S	720	11U76	Qt l
Glr qpe	164 1	142	2Su	1y2	1u1	1yU22	Qt l
Glr qpe	164 2	u0	J0	00	07	2SUu7	Qt l
Hwn. 8qFqpe	16S 1	Jy2	u2J	610	60u	1uUyS	Qt l
Hwn. 8qFqpe	16S 2	JS0	46S	7u0	4J1	17U41	Qt l
K. &e qpe	16J 1	yS2J01S	y1y607S	y1J241J	y124yJ1	SUy0	Qt l
K. &e qpe	16J 2	4S1SJ70	4SS170J	7y41y1J	7yu46Sy	SUy4	Qt l
&Fnqpe	11J 1	67S1y6y	67yy1JJ	67uu72J	67671JS	SUu4	Qt l
&Fnqpe	11J 2	uuS4Jy	u0J6u7	u0yuu6	u0u606	SU7S	Qt l
&. F	J4 2	uJyJ6y1	u1yS674	u1y6S2u	u7204J1	2U0y	Qt l
&. F	J6 2	1J2S11642	1JSS40026	14yuJu10S	1JS67y10y	SU0y	Qt l
&. F	J0 2	7y4u0uy	7u2u2Ju	7u72S61	7u6y0S7	1U00	Qt l
glht i. F	u7 1	21S	2S0	20S	22y	1JU44	Qt l
Lpwn	2S6 1	1210Su1J	126uSyJJ	12JSJJ7S	124J2477	2USu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
Lpwn	2S0 1	1SJ77SJS	11S1SSSu	1SuSSJSS	1S0u11u6	2U22	Ot l
Lpwn	2Su 1	4uu2166S	JS04421y	4yu60y72	4yu1120S	1Uy7	Ot l
LqiEdqe	6 1	22S1160	27S2474	22100J6	224S4J2	2U42	Ot l
5 wkFpl dqe	24 2	2u777S16	2u7u22y2	2uJy702S	2u476747	SU4y	Ot l
5 wFkwFpl p	JJ 2	7uyu4S0	7u1117J	70640y0	7u2400y	1U00	Ot l
5 . 8hr npFbe	y4 1	yJ12711	y0S7740	y6210J2	y61240S	1USS	Ot l
5 . 8hr npFbe	yJ 1	170ySSu1	14114247	14S1uSyJ	17y0417y	1U1y	Ot l
5 . 8hr npFbe	y6 1	1J2SJyy1	1J711616	1J272yy0	1J2JS2S1	SU76	Ot l
5 . 8hr npFbe	y0 1	u7y1444	u6Ju22u	u647yS7	uJ64J2J	1U0J	Ot l
5 . 8hr npFbe	yu 1	210S0JJy	22u646y2	27146S02	22J02004	7U7u	Ot l
mp. nhe dqe	1JS 1	7SS	2u0	1uS	2J6	2JU04	Ot l
mp. nhe dqe	1JS 2	6S	67	70	J7	20U24	Ot l
mqOvp8	6S 2	7JS146	7427u4	74J47u	74JyyS	1U17	Ot l
NE. l t E. lbl	71 2	1y0u1	2Sy04	1y014	2S1J6	7UJ2	Ot l
N. iwl l dqe	7y 2	uyy0y17	uuu06yJ	u6uyJu1	uuJu7y6	1U06	Ot l
9 E. ndqe	1S7 1	6S417y4	61y2J00	61J77yy	612y127	1U2u	Ot l
9 E. ndqe	1S7 2	20uy002	2uSyy0S	2u61706	2u2S707	1U71	Ot l
DOwFndqe	4J 1	4Syu262	4271220	4SJJS00	412u1uy	2U22	Ot l
DOwFndqe	4J 2	1760yu	17J062	174u67	17JuSu	SU01	Ot l
Dp8pFdqe	u2 1	4J40u	46y1u	4616u	461uu	1UJ6	Ot l
Dp8pFdqe	00 2	1417	176S	1JS7	1426	JUSu	Ot l
Dp8pFdqe	0u 2	4027	4012	4u6S	406J	1U07	Ot l
Dq8Q F	2u 1	202S2202	2u7S6y04	2u11J762	20u04u6y	2U12	Ot l
Dq8pl	1S0 1	7742uuS	7761u7J	7746264	77JS726	SU7S	Ot l
Dq8pl	1Sy 1	72S7y42	7107404	722J6Jy	72S1S2J	SUu2	Ot l
D. ndqe	27 2	JS0yS64J	JS2uJ460	JS1212yS	JS7yy174	SU6y	Ot l
Dil. Fidqe	u6 1	1uuJuu7J	1y202S22	1u04y40u	1uy6S112	1U4J	Ot l
Dil. Fidqe	uu 1	161uuy404	16yS2440J	1642777u7	16JS4y111	2U2S	Ot l
Db8Vl	74 1	J4uu42	JJ1S0u	J4uS76	J4y71y	SU2y	Ot l
cplr dqe	1Jy 1	y2Ju4y2	y7J77y0	y7664uy	y726126	SU67	Ot l
cplr dqe	1Jy 2	7uySu60	7uS6y0y	7y46u10	7uu1JJ4	1Uu1	Ot l
cEw8Bqe	2S7 1	2y77uJy	2y6Jyu0	2yuJ60y	2y61u42	SUuu	Ot l
cEw8Bqe	2SJ 1	0Sy1uSu	011477y	0S10222	0S044J6	SU02	Ot l
cqF	11u 1	217S670	22171yu	2144766	2162074	2USJ	Ot l
cqwFdqe	40 1	76u626J	7u766u0	70266S7	704yuJ1	2USu	Ot l
RlwFdqe	27u 1	1SJy2661	1S66uu1u	1S0S6Ju0	1S6J6S22	SUJ4	Ot l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 3 - S24	&Fl iIbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T :a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
- wFwndpe	J1 2	JJu46u	J40616	JJJ2S2	JJ7062	1US1	Qt l
Yiiplr dpe	102 1	210	2y2	10J	22u	2JUy6	Qt l
Yiiplr dpe	102 2	1S6	0u	111	yu	1uU1y	Qt l
Yiiplr dpe	106 1	17472	14177	170J0	17004	2UJJ	Qt l
Yiiplr dpe	106 2	1J706	1J7y2	1J672	1J460	SUy7	Qt l
Yiildpe	uy 1	11J44206	1107y7J4	110u7J14	116uyS4u	1USy	Qt l
Yiildpe	uy 2	12S1J7J	11uSuSJ	11yu7yy	11y7JuS	SUy4	Qt l
ZqFO	66 2	12uSJJJ	12Ju17S	126u6u0	126y124	SUuu	Qt l
ZqQ Fdpe	yS 1	446y701	44yS1S7	4674660	4J717u1	1Uyy	Qt l
ZqQ Fdpe	y1 1	y07yy2	yuS4u4	yyy1u0	yu4JJ4	1U77	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
q8mb c mb	2072	14:	242	- S0	2- 2	- : U 1	dDl
q. Tb C. y	12171	11: a	14h2	16- -	142a	10U$a	dDl
qpl r . cl	0: 72	6	1-	12	1S	- 6U64	dDl
Bwpcmb	1- : 71	- Sa	- : S	142	260	41U 4	dDl
Bwpcmb	1- 071	: - -	: 60	- 42	4a1	2: U20	dDl
Br py8&mb	h71	101	164	116	1: S	1hUa-	dDl
Bdl b mTE	2Sh71	6: - aS6-	62h6a44	641S06h	641: 22:	1Uaa	dDl
Bdl b mTE	2Sh72	- Shh12-	- S66264	- Sa- a40	- Sa- S0a	SU -	dDl
BpCb c r	a171	- 610	- 0- 4	- ah2	- 04a	- U6a	dDl
3 wob cmb	1Sa71	- -	21	- -	2h	24U0:	dDl
3 wob cmb	1S671	- 460	- 460	- a: 1	- : h:	6U16	dDl
3 wob cmb	11171	46:	404	4- -	4: 0	4U0:	dDl
3 w8lcmb	4- 71	6: 4	0ah	41:	61h	- SU 0	dDl
3 w8lcmb	4471	42aS0	42h- a	- 0h0S	412- a	6Ua6	dDl
3 wpeC.	1271	222S0S0	21a: - S6	21ah4- h	21ha4a4	SUaa	dDl
3 wpeC.	1272	26016	26S24	20S10	26: a6	1Uh2	dDl
3 E8Cpc r	- : 71	102S: : h	1664- S6	1612101	166: 60h	- U2:	dDl
3 E8Cpc r	- : 72	11SS4	1S: 46	1S446	1S66:	2U0h	dDl
3 EpCb cmb	: 272	111S	1100	1110	11- :	- U24	dDl
3 Cew8T	: h72	- 0	14S	140	1Sa	: 0U22	dDl
3 CDDr p	6- 72	1h0-	2444	2: 40	2- 21	1- U10	dDl
&yl DpCl cmb	1: 671	a	a	10	11	4- U 4	dDl
&yl DpCl cmb	1: 672	0	S	S	2	10- U21	dDl
Fpecmb	16471	: a	: a	2:	40	4SU0:	dDl
Fpecmb	16472	2S	2-	2-	22	aU6:	dDl
GwoC8c mb	16S71	h2	a-	0:	a-	1SU$S	dDl
GwoC8c mb	16S72	hS	1: S	1S0	116	26UaS	dDl
HC8b cmb	16: 71	h1S06a4	h- - h: : 1	ah- Sh11	h126S4h	2U2:	dDl
HC8b cmb	16: 72	- h4h11h	- hh6- 14	- ha1Sh-	- h0: : Sh	SU61	dDl
t. ocmb	11: 71	601a204	6: : 4224	6: 1- 66a	6: h: - ah	1U64	dDl
t. ocmb	11: 72	h140h6	h- - 12h	h20: : a	h2: 161	1U$2	dDl
tpC.	: 472	: 60	hS6	ha-	a1h	20U$0	dDl
tpC.	: 672	0Sh1	12- 00	14a00	1144h	- 4U02	dDl
tpC.	: 072	2ah	- : 6	410	- : 4	1aU$0	dDl
KpyDTC.	a- 71	2- h	201	2: :	2: :	6U 0	dDl
Lr wo	2S671	260a	26- 4	2- SS	2: - 0	aU14	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wo D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wo D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Lr wo	2S071	2: 11	2- 2-	1011	21a2	1hU10	dDl
Lr wo	2Sa71	11S14	1S042	h1- 1	1S2h:	hUah	dDl
LdEmb	671	22: S- h2	2- 16a22	22a0S06	22a406-	1U46	dDl
5 wg. r l mb	2472	: 0:	1: Sh	24a4	1: 2-	62U6h	dDl
5 w. gw. r l r	: : 72	11S	24S	4: -	26a	64U04	dDl
5 C8yeor . mb	h471	1hSS	1h10	16SS	1aS6	hUa0	dDl
5 C8yeor . mb	h: 71	- 4Sh	4Saa	2S2:	- 104	- - U12	dDl
5 C8yeor . mb	h671	- 206	- 242	22Sh	2hSh	2SUa:	dDl
5 C8yeor . mb	h071	1: 60	14a-	1- 10	14: 6	aU0:	dDl
5 C8yeor . mb	ha71	446a	: S1h	- S42	4106	24U42	dDl
u r Coyb mb	1: S71	0	2S	20	1a	: 0U20	dDl
u r Coyb mb	1: S72	-	S	-	2	a6U6S	dDl
u dkr 8	6S72	4S	6S	0-	: a	2hUS4	dDl
NEC DECpm	- 172	12:	2: S	242	2S6	- 4USS	dDl
NCTW l mb	- h72	1- 4- 1	1- - 6:	1- 14S	1- - 12	1U1:	dDl
9 ECo mb	1S- 71	6: 422: 2	66: a142	6: S16- 6	6: 60- 4-	1U24	dDl
9 ECo mb	1S- 72	- S- a2S0	- 1aaS1-	- S1142a	- S0h216	- USh	dDl
l dw. o mb	4: 71	4S2: h41	4S6- 0Sa	41- 1: 1S	4S0- 02S	1U- 1	dDl
l dw. o mb	4: 72	1- : : a4	1- 442h	1- 64S1	1- : 401	SU0-	dDl
l r 8 . mb	a271	71-	741	14	71-	72S6U- 2	dDl
l r 8 . mb	0072	S	S	S	S	SUSS	dDl
l r 8 . mb	0a72	2-	22	16	2S	1aU62	dDl
l 8dC.	2a71	1ha21h	1hS4: h	1ah22:	1h26- 4	2U-	dDl
l 8vr p	1S071	4- -	- - -	- 60	- 0a	1- U4a	dDl
l 8vr p	1Sh71	- 42	- 60	- Sa	- - h	aU64	dDl
l Co mb	2- 72	40haS	4h2h6	4a0a2	4a6a6	1U- 6	dDl
l TpC. Tmb	a671	242:	24: h	14: h	2114	26Ua0	dDl
l TpC. Tmb	aa71	2120-	1: 641	h: : S	1: 4aa	- 0Ua:	dDl
l m8mp	- 471	2h44: a	2h42h6	2h666a	2h: 14S	SU4:	dDl
Ar pe mb	1: h71	h- 1: 42a	h202S: :	h14- 4: h	h24- 640	SUh0	dDl
Ar pe mb	1: h72	- 00- aS-	- aa2: a2	- h24a46	- a6S41S	2USS2	dDl
AEw8mb	2S- 71	2S60	1hSh	14- -	1aS-	1aU2h	dDl
AEw8mb	2S: 71	- ha4	4Sh-	- 410	- a- 1	hU40	dDl
Ac	11a71	- a6h	142:	142:	224S	6- USS	dDl
AdTw. mb	4071	a0:	0a-	410	6h2	- : USS0	dDl
Rpw. mb	2- a71	1S- -	1: 10	00:	11Sh	- - Uha	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Vw. wocmb	: 172	- -	40	h-	: a	: 4U-	dDl
YTrpecmb	10271	42	: S	: a	: S	16U60	dDl
YTrpecmb	10272	- h	10	2a	2a	- hUhh	dDl
YTrpecmb	10671	11h2	1- : a	1S2:	11h2	1- Uhh	dDl
YTrpecmb	10672	h: 4a	1S6hh	1S- 01	1S2S6	: Ua1	dDl
YTpcmb	ah71	11hSh: h0	11a2hhh-	11h126ah	11aa4Sh-	SUh	dDl
YTpcmb	ah72	12S40a-	122hah0	1220aa1	122Sa: 4	1U14	dDl
Zc d	6672	16-	1h0	26-	2Sa	24U1	dDl
ZqpdC. cmb	hS71	h0:	1S10	0- -	hSa	16Ua4	dDl
ZqpdC. cmb	h171	142	210	160	10:	21Ua2	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCcmb	2072	a: 2611	a4aS6-	a- ah16	a46: - S	SMd2	dDl
qCTb nCE	12171	4406	: 426	40: h	4aa0	hMla	dDl
qpl r Ccl	0: 72	2SS2	2S0-	1hah	2S22	2M24	dDl
Bwpcmb	1- : 71	41212h	4Sa141	41611-	41212a	SM10	dDl
Bwpcmb	1- 071	0- : - h2	0224Sh	0- : 402	0- 1Sh1	1M8-	dDl
Br pE8mb	h71	- 6hS	- 04S	- a2a	- 0: -	1Md:	dDl
Bdl b mTG	2Sh71	60aha- 0	662S- 26	6- aah00	6: hh01-	- M8:	dDl
Bdl b mTG	2Sh72	- S62: - h	- S6S: Sa	- 1224a1	- Sa1a4-	1M14	dDl
Bpmb cCr	a171	h4S-	111- S	1Sa21	1S4: 1	aMd1	dDl
5 wob cmb	1Sa71	1Sa	1S4	h2	1S1	aM16	dDl
5 wob cmb	1S671	42Sh	- h- 4	4SSh	4S: 1	- M11	dDl
5 wob cmb	11171	1S62	1S: S	h0S	1S20	4Md:	dDl
5 w8lcmb	4- 71	- 1: 26S	- 1a- 6-	- 1a: 4:	- 10- ah	SMla	dDl
5 w8lcmb	4471	: 24S- a4	: - 12S: 2	: - 06: 20	: - Sh6: 4	1M2a	dDl
5 wpenC	1271	2h644: 0	2ha0: hh	2h: 2h40	2h6a- - 4	SMlh	dDl
5 wpenC	1272	- 6112	- 0- hS	- 0Sa1	- 6a61	1Md1	dDl
5 G8hpcCr	- : 71	112- 6- - 0	146- 44- 2	10- 14461	14- h: S00	21M16	dDl
5 G8hpcCr	- : 72	1: : 664	1620a-	16: : 64	161- - 0	- M16	dDl
5 Gpmb cmb	: 272	4141S	41- 6S	4S6S4	4112:	1M1S	dDl
5 new8T	: h72	- a0- 6	- 061-	- aS- 4	- a12a	1M4h	dDl
5 nDDr p	6- 72	: 026a	: 6S- 4	: : : aa	: 62h0	1M:	dDl
&El Dpnl cmb	1: 671	1S4: 1:	1S: 222	1Sa: a2	1S61S6	2M8:	dDl
&El Dpnl cmb	1: 672	462hS	44a- a	4: 41S	4: : 1-	1M01	dDl
Fpecmb	16471	a: - 24	a0462	a64S:	a6- h0	1M24	dDl
Fpecmb	16472	- : 2- S	- 40- 2	- 4- : a	- 400-	1M26	dDl
Hwon8Ccmb	16S71	hh02-	hhh16	hh- : 2	hh664	SM2h	dDl
Hwon8Ccmb	16S72	46h66	46a- 2	46- 44	46014	SM0S	dDl
y n8b cmb	16: 71	h646: S1	h: 2- 10h	h2S: 412	h4: a- 64	2M41	dDl
y n8b cmb	16: 72	- ha64- 2	4S: 0aS6	4S0: 6: S	4S- hh62	1M10	dDl
tCocmb	11: 71	0SSh- : -	6a12040	6- a46h6	60- : : hh	4M04	dDl
tCocmb	11: 72	h1: - 6a	h26441	h- 4046	h2: : 1a	1M8:	dDl
tpnC	: 472	244a: 0-	24S4- 06	2- : 44- 2	24S2461	1M16	dDl
tpnC	: 672	4- 6h: 1- S	4- 261aa0	4- 1a: h4-	4- - aSha0	SM0-	dDl
tpnC	: 072	1S- a221	1S4S: 12	1S2: 1aa	1S- 4641	SMdS	dDl
KpEDTnC	a- 71	- 61	- - h	- - 6	- 4:	- Mlh	dDl
Lr wo	2S671	1h: aa4	1hh- : 4	1h: 12-	1h60a0	1Ml:	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wo D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wo D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S071	1: 0hSa	1: 0062	1: 6SSh	1: 0226	SM60	dDl
Lr wo	2Sa71	0: 1aa-	0: 0hhh	0: S201	0: - - a4	SM4	dDl
LdTGmb	671	240: - ah	2- 00- ha	2- 64- 1:	24S: 0S1	2M2	dDl
9 wgCr l mb	2472	6S1a0S	: h1- : 0	: a0- 1a	: h- : 1:	1M20	dDl
9 wCgwCr l r	: : 72	: 1000h	: Sh: : 4	4h00h4	: Sa- 06	1M1a	dDl
9 n8Eeor Cmb	h471	11h- S	12Sh0	1260-	122- -	- M1a	dDl
9 n8Eeor Cmb	h: 71	- 0h2	- 6Sh	- h10	- 00-	4M11	dDl
9 n8Eeor Cmb	h671	616a	6Sa:	: h26	6S6S	2M8-	dDl
9 n8Eeor Cmb	h071	22: S	26a4	2- h2	2442	hM8:	dDl
9 n8Eeor Cmb	ha71	6220	60S2	0h2a	6h: 2	12M0-	dDl
u r noEb cmb	1: S71	1h0: 02	2S2244	2S21S6	2SS641	1M-	dDl
u r noEb cmb	1: S72	62Sa0	6S462	6Sh: a	6116h	1M6	dDl
u cdkr 8	6S72	2- 44-	22ha:	22a62	2- Sh0	1M-	dDl
NGhl DGhpm	- 172	12a-	1460	11a-	1- 11	1SM6	dDl
NnTwl mb	- h72	- 2a041	- - 1Sh6	- 20h2:	- 2h2: 4	SMS	dDl
. Ghocmb	1S- 71	60a21aS	60S6- S6	64- 0- - 2	6641h- h	2M0-	dDl
. Ghocmb	1S- 72	2hhS0h2	- 1S12: 2	- 1- haa1	- S00- Sa	2M1	dDl
l dwCocmb	4: 71	4: 11h4h	44- h- 62	420- - a0	44Sa2- -	2M00	dDl
l dwCocmb	4: 72	1- h2a2	142664	1- h4a6	14S400	1M:	dDl
l r 8 Cmb	a271	110	1: 6	1- 4	1- 6	14M-	dDl
l r 8 Cmb	0072	21S	2S-	21S	2Sa	1M4:	dDl
l r 8 Cmb	0a72	10:	16h	144	16-	1SM1	dDl
l 8dnC	2a71	144: - a26	14: : hh20	144S2S- a	14401h- 1	SM6	dDl
l 8vr p	1S071	1- 60	1- 0:	1- Sa	1- : S	2M0h	dDl
l 8vr p	1Sh71	10: h	110:	1- h2	1442	2SM46	dDl
l nocmb	2- 72	: h2S0	: : - h0	: 6061	: 0122	- M1a	dDl
l TpnCTcmb	a671	14210h	14: 141	146S: 2	1444: 0	1M4S	dDl
l TpnCTcmb	aa71	12- : 16-	120a01h	1261h46	12: a6Sh	1M0:	dDl
l m8mp	- 471	2h: 0- 2	2aa: 12	2a4S6S	2ah4- :	2M84	dDl
Ar pecmb	1: h71	hhh- 111	h06hSa4	h4- S22:	h0- SaS6	2M11	dDl
Ar pecmb	1: h72	- h144Sa	4S: 22h4	4SS0- - S	- hh1- 44	1M06	dDl
AGw8mb	2S- 71	4206	4- h-	4- 1a	4- 2h	1M0	dDl
AGw8mb	2S: 71	1S- 6-	1S: S:	1S2S4	1S- : 0	1M4:	dDl
AdC	11a71	1S046	1Sh46	1S601	1S0aa	1M2	dDl
AdTwCmb	4071	1S0- a:	1S- 6: 0	1S41: 4	1S: S6:	1M1-	dDl
RpwCmb	2- a71	2h01h	- SS61	- Sa- S	- S2S-	1M1a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	0S0h4	01S1:	6h- 0S	0S- h-	1M20	dDl
YTTr peomb	10271	26h2S	202h:	260a6	20SSS	SM1a	dDl
YTTr peomb	10272	1262-	12: - h	120a4	1264h	SM1a	dDl
YTTr peomb	10671	1a1: :	1a0ah	1h- hS	1a00a	- M2h	dDl
YTTr peomb	10672	1a: aS	1a2- :	1h2h2	1a0S2	2M1a	dDl
YTTpomb	ah71	1- 6ahhS4	1- : 4S26h	12hha2: 0	1- 4Sh400	2M01	dDl
YTTpomb	ah72	14SS1- h	1424aa6	14S626a	141S4- 1	SM11	dDl
ZdCd	6672	2haa:	2h4ha	2h: 20	2h6- 0	SM0-	dDl
ZqpdnComb	hS71	266- 4	20ah:	2aS0h	20: - 6	2M46	dDl
ZqpdnComb	h171	64: 2	6420	6- a:	6421	SM12	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	- 66h01	- 01: 4:	- 6a44S	- 6aha:	SM0-	dDl
qCTb nCE	12171	4S42	42h2	4: 1a	42a4	: M:	dDl
qpl r Ccl	0: 72	1- a4	141-	1: S4	14- 4	4M0	dDl
Bwpcmb	1- : 71	26Sa6-	26412:	2: a4S:	2611- 1	1M1S	dDl
Bwpcmb	1- 071	4: 2aSS	40- Sa0	46h: Sh	46: 1- 2	2M-	dDl
Br pE8mb	h71	21SS	2S00	2Sh4	2ShS	SM6	dDl
Bdl b mTG	2Sh71	60: 11- a	6a6h- S:	66hhSh1	600- 10a	1M2h	dDl
Bdl b mTG	2Sh72	- 11h- S0	- 1464: S	- 241S2:	- 16ah2a	2M82	dDl
Bpmb cCr	a171	601a	6: 4-	6400	6: 0h	1M1S	dDl
5 wob cmb	1Sa71	110	1- a	101	142	1hM2h	dDl
5 wob cmb	1S671	4S42	- 026	41a4	- ha4	: M4h	dDl
5 wob cmb	11171	2100	2S: 1	2S61	2Sh0	- M-	dDl
5 w8lcmb	4- 71	1Sa6aS	111a6-	112SS4	11Sa4h	1M0S	dDl
5 w8lcmb	4471	1hS2: 12	1h4Sh6:	1h- - 4h:	1h2: 6: 0	1M86	dDl
5 wpenC	1271	400ah62	: S: - - - h	: 2Sa411	: S1- : 01	4M4	dDl
5 wpenC	1272	6- 0aS	62006	62: 42	6- S- 2	1M84	dDl
5 G8hpcCr	- : 71	100S- 60S	21ah2- S:	2- hSa6: -	2116a2Sh	14M1:	dDl
5 G8hpcCr	- : 72	1h2: 1a	2S24- 4	2S: a22	2SS2: a	- M4:	dDl
5 Gpmb cmb	: 272	22S44	22S1S	22- - 1	2212a	SM4S	dDl
5 new8T	: h72	1a14a	1hSaS	1h1h-	1aaS0	- M8:	dDl
5 nDDr p	6- 72	a0126	a6046	aaSS1	a02h1	SM04	dDl
&El Dpnl cmb	1: 671	: 41h4	: : : 66	: 6: 4:	: : 4- :	2M1-	dDl
&El Dpnl cmb	1: 672	2- S60	2- h6:	2461h	2- aa4	- M26	dDl
Fpecmb	16471	- h6a:	4S20S	4SS11	- hhah	SM0-	dDl
Fpecmb	16472	10S6a	16a14	10- 02	10Sa4	1M6-	dDl
Hwon8Cmb	16S71	4a- - S	4h- a4	: S10a	4h2h0	1M4a	dDl
Hwon8Cmb	16S72	2- : : a	2- : 61	2- 04a	2- 622	SM46	dDl
y n8b cmb	16: 71	h: - 6haS	h61a24a	h44SS6:	h: - 1064	SM14	dDl
y n8b cmb	16: 72	4S42- a2	414S: 00	42S604-	412hhS1	2M8S	dDl
tCocmb	11: 71	66aa: 6-	6a04S42	6a1a2ha	60h- 6- 4	1M4S	dDl
tCocmb	11: 72	h2ha1h	h4a- : :	h0S: h:	h4h: hS	2M1:	dDl
tpnC	: 472	11: 2a0a	1144444	1101h1h	11: 6414	1M22	dDl
tpnC	: 672	21ah- - a2	224S0624	22612: - 0	22- S4: 1:	1M66	dDl
tpnC	: 072	: 2- - SS	: 204- 1	: 2a- 2:	: 26- : 2	SM1	dDl
KpEDTnC	a- 71	2h1	2h4	- 1h	- S1	: M8:	dDl
Lr wo	2S671	01: 6h0	020616	02S: 44	0212a6	SM4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&c8mTcnC UwdTnpJ	1
&wTr i Acb r qdCmpr o J	2S2- 7S0712 1: J14J1a	&wTwUc8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S071	: hS46:	61h062	61Sh4S	6S0S: 6	2M4a	dDl
Lr wo	2Sa71	2aS- : 06	- S1S02S	2a6622a	2ah- : Sa	- M60	dDl
LcTGmb	671	2404S0:	24: Sa01	244S0h2	24: : 246	SM0S	dDl
9 wgCr l cmb	2472	24h: a1	24h11-	2: 1200	24hhhS	SM46	dDl
9 wCgwCr l r	: : 72	- 4: h62	- : 1242	- : 4416	- : S: 4S	1M22	dDl
9 n8Eeor Cmb	h471	ha62	1S221	h00h	hh: 4	2M6	dDl
9 n8Eeor Cmb	h: 71	- 060	- hSh	41Sh	- h2a	4M0	dDl
9 n8Eeor Cmb	h671	: : S1	: h1a	: 6- :	: 6a:	- M0:	dDl
9 n8Eeor Cmb	h071	2- - 4	2: 0:	2: : h	24ah	: M42	dDl
9 n8Eeor Cmb	ha71	6S: 2	6- - :	62S2	61h6	2M2h	dDl
u r noEb cmb	1: S71	hh6a2	1S264-	1S14a0	1S1201	1M40	dDl
u r noEb cmb	1: S72	- 1: 2S	- Sh- 2	- 2S12	- 14aa	1M02	dDl
u cdkr 8	6S72	0a42	066h	06: 2	0021	1M6	dDl
NGhl DGhpml	- 172	41- 4	4: 06	4- : 1	4- : 4	: M80	dDl
NnTwl cmb	- h72	2022- -	20aah2	2a2400	200a6a	1M40	dDl
. Ghocmb	1S- 71	6a: h42-	6h21: S2	6h- 26h6	6hS4: 41	SM0	dDl
. Ghocmb	1S- 72	- 1- 1- : 0	- 1- 424:	- 116210	- 12020-	SM1	dDl
l dwCocmb	4: 71	4- h1: - 1	4444: 4S	4- hhh: 2	4412SSa	SM0:	dDl
l dwCocmb	4: 72	14SS2a	144SS:	14: 2a0	14- 1S0	1M12	dDl
l r 8 Ccmb	a271	1SS	h1	116	1S2	12M0	dDl
l r 8 Ccmb	0072	1S-	11S	h0	1S-	6M4:	dDl
l r 8 Ccmb	0a72	0S	00	h1	0h	1- M4a	dDl
l c8dnC	2a71	1S6h11Sh	1Shaa262	1Sh46122	1Sa0: 164	1M4a	dDl
l c8vr p	1S071	4160	- h10	4- Sh	41- 1	4M4S	dDl
l c8vr p	1Sh71	- h: h	4- : 1	41Sh	414S	4M0a	dDl
l nocmb	2- 72	: : - h0	: 4h12	: ah01	: 6420	- M4-	dDl
l TpnCTcmb	a671	14h444	1: : 6hh	1: 0101	1: 41S4	2M06	dDl
l TpnCTcmb	aa71	1- 120a0	14S160-	142S6: -	1- 0a- 01	4M4a	dDl
l m8mp	- 471	2h- 0: S	2a: 42h	2aa- 61	2ah1aS	1M46	dDl
Ar pecmb	1: h71	h02h: 0-	h6- 1h4a	h66- S64	h604a62	SM12	dDl
Ar pecmb	1: h72	- hS0: 1S	- hS04- 0	4S1: 66h	- h4- : - h	1M4a	dDl
AGw8cmb	2S- 71	21a4	22Sh	210:	21ah	SM0h	dDl
AGw8cmb	2S: 71	4hh-	: Sh-	4hS1	4hh6	1M12	dDl
AcC	11a71	2Sa: S	2Sha-	22S- :	212ah	- M8:	dDl
AcTwCcmb	4071	1S- 4a1	1Sa044	1S062S	1S661:	2M0S	dDl
RpwCcmb	2- a71	: - SS-	: 210:	: - 60-	: 2h: S	1M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- 1	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	- 1h0h	- 1441	- 1a46	- 10: :	SMda	dDl
YTTr peomb	10271	1ShS:	112- S	11S40	11S6S	1M40	dDl
YTTr peomb	10272	: 4hS	: 44S	: 6S1	: : 11	1MS	dDl
YTTr peomb	10671	a: h:	a42a	0h: -	a- 2:	4M8S	dDl
YTTr peomb	10672	1- ah6	14Sh0	14- - 6	1411S	1M6	dDl
YTTpomb	ah71	12a: S044	120ah62a	12h00: a4	12a026: 2	SM04	dDl
YTTpomb	ah72	1204hah	12h6442	1- 24S02	12ha: S1	1Mdh	dDl
ZdCd	6672	: hS16	: h: - 1	6S104	: h: 04	SM10	dDl
ZqpdnComb	hS71	2S104	22- 44	2S- : 0	2Sh: a	: M04	dDl
ZqpdnComb	h171	44a4	40S1	: 1Sh	406:	6M06	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tu wb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	2J1J0	2JSJ-	2J10JS	2J12	SM26	dDl
qCTb nCh	12171	- 2SS	- 242	- 6JE	- - 60	0M-	dDl
qpl r Ccl	0J72	116J	11E6	11 S	11 1	1M1	dDl
Bwpcmb	1- J71	16 - 4E	10240J	10S6	10SJS4	1M21	dDl
Bwpcmb	1- 071	2E E-	- SSJJ0	- SSES1	- SS1- 2	SMJ	dDl
Br ph8mb	E71	162E	1006	16E4	16EE	4MJ	dDl
Bdl b mTG	2SE71	664460E	6 J 1 4	6 J61- 2	60 6- - 2	1M1	dDl
Bdl b mTG	2SE72	- 224- - S	- 10JE1	- 220 J	- 2SE- 6E	SMES	dDl
Bpmb cCr	171	J2- 4	J4J1	JE J	JJJ0	6MEJ	dDl
5 wob cmb	1S 71	01	121	E2	E4	26M0S	dDl
5 wob cmb	1S671	4226	4S06	- 26	4S42	JM8S	dDl
5 wob cmb	11171	1JJ6	164	164	1610	- M26	dDl
5 w8lcmb	4- 71	JE- 0E	JE -	JE- S4	JEJS0	SM4E	dDl
5 w8lcmb	4471	E 0240	1S1S JS	1SS- - 41	1SSS40E	1M21	dDl
5 wpenC	1271	2EES 2	- S0 6 6	- S6422-	- S44J0E	1MJ	dDl
5 wpenC	1272	- 02 1	- 0- S6	- 6E E	- 01E2	SM40	dDl
5 G8hpCr	- J71	2S004- 1E	2J1- - 0S6	2012661E	24- 44 1	1- M4	dDl
5 G8hpCr	- J72	21S 1S	21JJ02	22S4- -	21J6SJ	2M4-	dDl
5 Gpmb cmb	J272	1 S6	1 2J2	1 16	1 624	1M0-	dDl
5 new8T	JE72	16- 0-	1J JE	1J J6	16S2E	1M6	dDl
5 nDDr p	6- 72	JE0EE	J 6E	JE1S6	JE2S1	SME4	dDl
&hl Dpnl cmb	1J671	4ES41	4ES 2	4E1E1	4E1SJ	SM16	dDl
&hl Dpnl cmb	1J672	2S462	1EJ-	2S22E	2SS06	2MIE	dDl
Fpecmb	16471	- - E20	- 4 - S	- 4 S	- 4J46	1MJ	dDl
Fpecmb	16472	1- J60	14111	1- EE4	1- E1	2M86	dDl
Hwon8Ccmb	16S71	42J20	42- 6S	4- S4J	42644	SM4	dDl
Hwon8Ccmb	16S72	2S- S2	1EE12	2S1EE	2S1-	1M8S	dDl
y n8b cmb	16J71	E- - 2 4S	E- J- 226	E4J2602	E- 0EJ0E	SM0	dDl
y n8b cmb	16J72	416S6SS	4SS1JSJ	411ES21	4SE- 0SE	2M82	dDl
tCocmb	11J71	60EJJ4J	6EJ62J	6 0 160	6 066J0	1M10	dDl
tCocmb	11J72	E0E E-	E- 62- S	E4E- - 4	EJJ1J2	2MJ	dDl
tpnC	J472	J- JS6	4112E	- JES6	4- J1-	1M80	dDl
tpnC	J672	16- - 044-	16- 06614	164- JS4	16- - S- J	SMS	dDl
tpnC	J072	- EEJ1	- J0 6	- E6S0	- 44	SM0S	dDl
KphDTnC	- 71	- S2	- SJ	2E4	- SS	1ME0	dDl
Lr wo	2S671	41E- 1-	42426S	41E41	42SEE0	SM00	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tuwb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :uwb r :a	SJ6q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 rwC	5 NI . l &	RCdT
Lr wo	2S071	- 40S- 1	- J6SJ2	- J12SJ	- J142E	1M2	dDl
Lr wo	2S 71	164S224	1604- - 6	16JSJ0	16JJS46	1M36	dDl
LdTGmb	671	241E2EE	2404262	2J4JS4-	240EJ- J	2M4	dDl
9 wgCr l mb	2472	1J6SS6	1J 4JJ	1J0SJ0	1J0102	SM0	dDl
9 wCgwCr l r	JJ72	- J1S1	- 4E 2J	- 4ES2J	- 4EEJ6	SM2E	dDl
9 n8heor Cmb	E471	01J2	0200	6 J	01SJ	2M2	dDl
9 n8heor Cmb	EJ71	- 6J1	- 2E2	- S- 4	- - 26	EM2	dDl
9 n8heor Cmb	E671	464-	4J- 4	46S1	4JE-	1M1E	dDl
9 n8heor Cmb	E071	22E2	21JS	21JE	22SS	- M61	dDl
9 n8heor Cmb	E 71	J6- J	J- J1	J26	J41	- MJ	dDl
ur nohb cmb	1JS71	1E4	E1121	EE26	E040	1M64	dDl
ur nohb cmb	1JS72	20 JE	20- 61	20201	204E0	1M1J	dDl
ucdkr 8	6S72	J 21	6S4J	J E	JE21	1M42	dDl
NGhl DGhpml	- 172	1ESE	2242	2210	2122	M0J	dDl
NnTwl l cmb	- E72	1JESS4	16S14	161- 0-	16S10J	SM04	dDl
. Ghocmb	1S- 71	6 441J6	6 611- J	6 0JE2-	6 6S4SJ	SM4-	dDl
. Ghocmb	1S- 72	- 20S4 0	- 10S 4-	- 2SS61J	- 21- E 2	1M1E	dDl
l dwCocmb	4J71	4- J66J	44S - 0-	44- 101-	44S J -	SM2	dDl
l dwCocmb	4J72	14J- - 2	14- 211	1441S	144210	SM04	dDl
l r 8 Cmb	271	4J	02	J4	J0	24M02	dDl
l r 8 Cmb	0072	E-	1S-	1S0	1S1	6M0	dDl
l r 8 Cmb	0 72		00	0-	0E	EM0E	dDl
l d8dnC	2 71	1S- 441	1S622J2J	1S- 6E01E	1S4J 0	1M6	dDl
l d8vr p	1S071	2660	24SE	2610	2J64	JM4	dDl
l d8vr p	1SE71	2S 4	1 JE	22JE	2S60	EM0S	dDl
l nocmb	2- 72	J2S00	J1JJS	J1 - S	J1 1E	SM1	dDl
l TpmCTcmb	671	62SS	S- 6	J- 2E	6J22	1M0S	dDl
l TpmCTcmb	71	02 - E-	0J- - J	0- 6SS	04S110	1M0S	dDl
l m8mp	- 471	2010ES	20- 6	20244E	2020S	SME	dDl
Ar pecmb	1JE71	E- - EJS	E 414 0	E 24JJ1	E6 - - - S	2M6	dDl
Ar pecmb	1JE72	4S0S - J	- E12E12	- E- - J14	- E0242S	2M16	dDl
AGw8mb	2S- 71	10SS	1J 4	16J	1640	- ME	dDl
AGw8mb	2SJ71	4S06	4S26	4S42	4S4	SM0-	dDl
AdC	11 71	11- 6-	110E0	12J1J	11 E2	4ME	dDl
AdTwCmb	4071	0E1J2	0EJSJ	000EJ	0 10	1M1J	dDl
RpwCmb	2- 71	- 6 6-	- 06ES	- 6 -	- 01- S	1M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	3 - 44671	tCl Tpmb Cr T:u wb r :a	N
5 8r CTI wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	J172	2JEJ0	2J616	2JJ06	2J010	SM1	dDl
YTTr peomb	10271	2	02	J-	S-	SM0J	dDl
YTTr peomb	10272	- E0-	414S	- E 4	4S- 2	2M1	dDl
YTTr peomb	10671	0J11	0- 20	026E	0- 6E	1M01	dDl
YTTr peomb	10672	1- 41-	12 12	1- 041	1- - 22	- M4	dDl
YTTpomb	E71	126EJ12-	1- SESSE	12E441- 1	12ESE0 4	1MJ	dDl
YTTpomb	E72	1- 22 4J	12 E2SJ	1- S66EE	1- S62JS	1M2E	dDl
ZdCd	6672	- 6J10	- 02J2	- 6SEE	- 662-	1MIE	dDl
ZqpdnComb	ES71	1- 6ES	14141	1- 4J0	1- 06-	2M-	dDl
ZqpdnComb	E171	2E10	- SJE	- 1- 4	- S- 0	- M62	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8biqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 2014	4 62u6	4u660S	4 1u S	SR	Qt I
d. iqe C. E	12171	222J	2SSS	24- 4	222S	R00	Qt I
dIl p. qO	0J72	10SJ	16- -	162S	16J-	2R00	Qt I
Bwldpe	1- J71	- S4S64	- 22206	- 14- 1S	- 1- JJS	2R 1	Qt I
Bwldpe	1- 071	J- S012	JJJJ- -	JJ- Ju1	J466Su	2R12	Qt I
BplE8dpe	71	- SJ0	- 102	- S01	- 1SS	2RS-	Qt I
Bdqe biG	2S 71	6u6 JS	0SJ 04u	6 4- 011	6 J0uS-	1R u	Qt I
Bdqe biG	2S 72	- 1u J-	- 2J 10	- 1S1- JS	- 1u- - J6	2R4u	Qt I
BIQe q p	u171	J1S1	J46u	J- S1	J2 S	- R40	Qt I
9 wne dpe	1Su71	1- -	1- -	1- -	1- -	SRSS	Qt I
9 wne dpe	1S671	4- 42	4SJ	4SJ1	41J1	4RSS	Qt I
9 wne dpe	11171	1J 1	1- 0J	1J2u	14 u	0R41	Qt I
9 w8Qdpe	4- 71	1 SJ4S	1 2J60	1 - Suu	1 2S6J	SR0S	Qt I
9 w8Qdpe	4471	- 2u 162	- - S2- S6	- - 2- -	- - SJ1- 6	SR1-	Qt I
9 wIr C.	1271	- 4- u0u-	- 4 - S46	- 641uu0	- J24J02	2R u	Qt I
9 wIr C.	1272	44242	4- J S	44 11	4424u	1R4	Qt I
9 G8Clq p	- J71	2Su60224	24626JS2	26021024	24S01u10	12R 2	Qt I
9 G8Clq p	- J72	2S Ju4	21SS	21J1 2	21162J	1R46	Qt I
9 GIQe dpe	J272	2JS4	24 22	2J- u	2J12S	SR 6	Qt I
9 Qr w8	J 72	- 2166	- S- 22	- S 0	- 1162	2R	Qt I
9 Qt t pI	6- 72	0- 1 0	0- - 1J	04S- 2	0- J1J	SR61	Qt I
TEI t IQI dpe	1J671	6 4 1	6uuS-	6 140	6 140	SR1S	Qt I
TEI t IQI dpe	1J672	2u- 20	2u4- 0	2 24J	2u60S	1R0J	Qt I
UIr dpe	16471	4 - S	4 0S	J12Su	JS162	1R 2	Qt I
UIr dpe	16472	2S4 2	2S2J2	2S16J	2S- S-	SRu-	Qt I
HwnC8q dpe	16S71	J0 6S	6S 6J	6S1 4	J 0S0	2R61	Qt I
HwnC8q dpe	16S72	2uu41	20	2u26S	2u- 60	1R12	Qt I
h C8e dpe	16J71	u 0- 0	644222	02S2	0J- 60	1R-	Qt I
h C8e dpe	16J72	41J4102	4S u- - -	4S11J- J	4SuuS1-	1R06	Qt I
&ndpe	11J71	6 611J1	0104u- 6	0S2u- Ju	0SJ40u2	1R1J	Qt I
&ndpe	11J72	62J00	60- - 2	42- 42	J0410	1R	Qt I
&C.	J472	10u4S06	1uSSu11	1062- - 4	10u24S0	1RSu	Qt I
&C.	J672	- 266 u- -	- 1uS4214	- 24 S41S	- 2- 214u6	1R41	Qt I
&C.	J072	00SuuJ	04uJ- 6	00S246	06- 222	1R60	Qt I
KIEt iC.	u- 71	- 2J	- 42	2 4	- 2S	0R01	Qt I
Lpwn	2S671	- 62J14	- 0J102	- 6 u 1	- 6 1 2	1R02	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMt8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	2 S- 6	- S66u-	- S- u6-	- S- 1 4	1R2u	CI I
Lpwn	2Su71	142SJ20	144426u	14- 0uJ-	14- 4216	SRu6	CI I
LqiGdpe	671	2J16 46	2J6u- 1S	2JS- 46	2J2 0- 4	1R J	CI I
y wg. pl dpe	2472	61uJ 2	61- 0	6S 416	61- - 6	SR0J	CI I
y w. gw. pl p	JJ72	622JSS	62SJ- 0	62J04u	622 2	SR42	CI I
y C8Er np. be	471	12Ju	126-	124 u	12J0J	SR10	CI I
y C8Er np. be	J71	- 610	4S- 4	- J	- u0S	JR04	CI I
y C8Er np. be	671	J4uJ	611u	J uJ	Ju6-	JR0S	CI I
y C8Er np. be	071	2010	22- 4	2J0J	2JS	R 1	CI I
y C8Er np. be	u71	626u	6S20	626S	61uJ	2R22	CI I
mpOnEe dpe	1JS71	12- 06u	12402u	124S42	12410	SR4S	CI I
mpOnEe dpe	1JS72	- 0646	- uS61	- 06-	- 00u2	SR64	CI I
mqCkp8	6S72	14- u1	1- 64S	14S 0	14S-	2R66	CI I
NGCI t GCIbI	- 172	- S42	- S10	2 42	- SSS	1R0-	CI I
NCiwI l dpe	- 72	2 16- 4	2u01S6	2u4SSu	2u0Ju-	1R -	CI I
F GOndpe	1S- 71	0S 622S	0Su22J-	0SJ2- S1	0S06 2J	SR 2	CI I
F GOndpe	1S- 72	- 2J4 0	- 1 uSSu	- 12- 1u-	- 1 2S62	2RS0	CI I
DOw. ndpe	4J71	46J42- -	462 2S	4J0J11	461 J2S	SRu	CI I
DOw. ndpe	4J72	140600	14J 2-	14S201	144624	2R6u	CI I
Dp8p. dpe	u271	1S0	11	1 2	14S	- - RSu	CI I
Dp8p. dpe	0072	1JS	1S0	14S	1- 2	10R16	CI I
Dp8p. dpe	0u72	1	112	6	1SS	11RS1	CI I
D8qCC.	2u71	11SS4u	1S60SS- u	11100S6u	1S JS66u	2R J	CI I
D8qvpI	1S071	1410	10Su	160J	16SS	R u	CI I
D8qvpI	1S 71	14- -	1JJu	1JJS	1J14	4R62	CI I
DOndpe	2- 72	J6- 11	JJ 66	J4J0u	JJ61u	1R6J	CI I
DiIC. idpe	u671	1026S	106uS2	102 S2	1041S4	1R 4	CI I
DiIC. idpe	uu71	1J 4S- 0	1J 4 -	16126J2	16SSJ4-	SR66	CI I
Db8bI	- 471	2uS- 0J	2u- 6S-	2u141S	2u10 6	SRu	CI I
cpIr dpe	1J 71	Su2u0	1SS0u60u	u614u0	4 4u4	1R1J	CI I
cpIr dpe	1J 72	4S S062	416- SSu	- u06 62	4S4- J00	- R6u	CI I
cGw8dpe	2S- 71	2242	22S	2J0J	2- 42	uR66	CI I
cGw8dpe	2SJ71	JuS2	J- 26	J01S	J61-	4R4	CI I
cq	11u71	1J04-	166S2	161- J	1616S	2R66	CI I
cqiw. dpe	4071	002u-	0u4J0	004J1	000- S	SRu2	CI I
5 Iw. dpe	2- u71	01SJS	04646	0- 4uS	0- SJu	2R1	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	J172	- JSSS	- 4- 4J	- 4 46	- 406-	1R8J	Ol l
Yiiplr dpe	10271	120- 2	1- Su2	1- J 1	1- 1- J	- R2	Ol l
Yiiplr dpe	10272	6- 0	6224	6- 0	6- 2u	1R42	Ol l
Yiiplr dpe	10671	- 2S	1SS0	J12	6- 0	4R8	Ol l
Yiiplr dpe	10672	144 2	1J1u0	14u4u	14u42	2R4	Ol l
Yiildpe	u 71	1- 4 S1JJ	1- 4 4 Ju	1- - 062J	1- 4J- 0 1	SR1S	Ol l
Yiildpe	u 72	1- - - 644	142642	12 6040	1- J220-	4R4	Ol l
Zq O	6672	J 16	J 4J1	6SS4S	J uS2	SR12	Ol l
ZdqOC. dpe	S71	20 2	2uJuS	- SS16	2uu42	- R0S	Ol l
ZdqOC. dpe	171	6420	61- J	6400	6- 46	2R1	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	- 4620N	- 4644h	- 41620	- 440N:	SM0h	dDw
qCTb nCE	12171	4210	4NSh	4: Sh	4: 12	6M6	dDw
qpwr Ccd	0: 72	14h4	14hh	14: 0	14N4	1M:	dDw
Bspcmb	1- : 71	- 2hh6N	- - 264:	- - 4hS1	- - 2: S:	SM04	dDw
Bspcmb	1- 071	: h1S10	: h6: N:	: h42- 4	: h- h4:	SM40	dDw
Br pEPPcmb	h71	2S: 6	1h0S	2120	2S: 1	- MN:	dDw
Bcwb mTG	2Sh71	6002N- -	6NN62: S	6hSh411	6N: 616:	1M80	dDw
Bcwb mTG	2Sh72	- - 1Sh22	- - 20S26	- - 14026	- - 10: : N	SM2:	dDw
Bpmb cCr	N171	: S6N	: 21N	: : 06	: 2N0	4M4	dDw
5 sob cmb	1SN71	146	1: S	11-	1- 6	1: M1S	dDw
5 sob cmb	1S671	41Sh	42S1	42: 1	41N0	1M02	dDw
5 sob cmb	11171	116-	1ShS	1146	11- -	- M0	dDw
5 sPlcmb	4- 71	2h24: S	2h66- 4	2h- 2Nh	2h4124	SM0:	dDw
5 sPlcmb	4471	4h44h1-	: S- - : NN	4hN11: 6	4hN6: : 2	SMNh	dDw
5 spenC	1271	20S464N	20- - N04	20- S1- 2	2022NN:	SMN	dDw
5 spenC	1272	- - : 22	- - 014	- - 622	- - 62S	SM2h	dDw
5 GPmpcCr	- : 71	21: 4h4h1	2: 42h444	20264- h-	24040006	11M0h	dDw
5 GPmpcCr	- : 72	21416:	21NhN2	22- 64S	21Nh2h	2M6	dDw
5 Gpmb cmb	: 272	: 6S6-	: 6NN6	: 6N1h	: 6: Nh	SMN1	dDw
5 nesPT	: h72	- 2: S4	- 2N4:	- 1hS6	- 241N	1M40	dDw
5 nDDr p	6- 72	0- : 1-	021hh	02S0h	02: h0	1M1S	dDw
&EwDpnwcmb	1: 671	: 6S26	: 4462	: 46: 4	: : S40	1M:	dDw
&EwDpnwcmb	1: 672	2- 1: -	22Nh6	22606	22hSh	1M84	dDw
Fpecmb	16471	- hh00	- hhh4	- N016	- h: 62	1MN:	dDw
Fpecmb	16472	164- 4	16- S-	1622S	16- 1h	SM06	dDw
HsonPCcmb	16S71	4: h- N	40- 00	464: 0	46: h1	1M6	dDw
HsonPCcmb	16S72	221N2	22: S2	2- SSS	22: 61	1MN-	dDw
y nPb cmb	16: 71	h6hS: hh	hNh21- 4	h0N2S: 1	h0NN262	1M8-	dDw
y nPb cmb	16: 72	42h60h2	41: 1202	422: 2- -	42244- 2	1M02	dDw
tCocmb	11: 71	01: 0406	014: 1S4	016216h	01: 4h10	SM12	dDw
tCocmb	11: 72	hhN4h-	h066hS	hh2S1:	hNhS66	1M1-	dDw
tpnC	: 472	1: 20- N1	1: 220: -	1: S1N0S	1: 10- - :	SM1S	dDw
tpnC	: 672	202h04S-	201- hN1h	26h00640	201- N2hS	SMh	dDw
tpnC	: 072	640: : 1	6- 00- h	64- hN0	64- Sh2	SM00	dDw
KpEDTnC	N- 71	2h2	2hS	- 10	- SS	: M80	dDw
Lr so	2S671	0001N6	00N16N	06S0N:	002S46	1M26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU- 4	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	62S: 0S	620h2:	611NN2	62S126	1M1S	dDw
Lr so	2SN71	- Sh0S21	- Sh2640	- S460NS	- S0NN16	SM1S	dDw
LdTGmb	671	24: - S- S	2: 00hN1	2: 0SN4:	2: - - h: 2	2M00	dDw
9 sgOr wcmb	2472	462N- S	461hS0	46S46S	4610- -	SM26	dDw
9 sOgsOr wr	: : 72	10S: hh0	160S- h2	1642- - 6	1602hSN	1M11	dDw
9 nPEeor Omb	h471	12h0-	120hS	12N4N	12N0S	SM0-	dDw
9 nPEeor Omb	h: 71	0411	6: 6N	01- :	0S- N	6M1S	dDw
9 nPEeor Omb	h671	h20N	h10N	Nh0N	h14:	1M00	dDw
9 nPEeor Omb	h071	4- 60	42: h	46Sh	4412	4M36	dDw
9 nPEeor Omb	hN71	11h- h	110- h	121h0	11h: N	1M12	dDw
u r noEb omb	1: S71	hN- 1h	h0S06	h604N	h0- N1	SMN:	dDw
u r noEb omb	1: S72	- S1h4	- S- N:	2h: 66	- SS4N	1M4-	dDw
u dkr P	6S72	1- 6SS	1- N- 4	1- N44	1- 0: h	1M3S	dDw
8 GhwDGhpmw	- 172	16- -	10h2	16SS	160:	6M11	dDw
8 nTswwcmb	- h72	16hS66	1602h6	1606N4	16NS1:	SM1:	dDw
. Ghocmb	1S- 71	020- N- S	0Sh2h10	021014-	01h46- S	1M2h	dDw
. Ghocmb	1S- 72	- 2h0NSN	- 2Nh4S0	- 2460SS	- 200h02	SMN4	dDw
l ds Coomb	4: 71	40S60: 1	40S1: 44	4: NS466	4662h2S	1M-	dDw
l ds Coomb	4: 72	14N0h:	14h10:	14N- 1S	14N06S	SM2h	dDw
l r P Comb	N271	N6	66	1S:	N6	22MN	dDw
l r P Comb	0072	12S	N0	12-	11S	1NM4-	dDw
l r P Comb	0N72	00	N1	0N	0h	2M6:	dDw
l dPdnC	2N71	11SN: 100	111162S-	11146161	1111: N40	SM20	dDw
l dPr p	1S071	16SN	1h: h	1N60	1N11	1SM32	dDw
l dPr p	1Sh71	16: N	1: 2:	16h2	162:	: M4-	dDw
l noomb	2- 72	06: 4-	0: : 12	0- 02S	0: 2: N	1M1S	dDw
l TpnCTomb	N671	2SS- hN	2SS400	1hhNh2	2SS2: :	SM16	dDw
l TpnCTomb	NN71	1N- 6S- 2	1N6: 2- 0	1N- 12: -	1N44104	1M3S	dDw
l mPmp	- 471	204S- S	2N1S0h	2N462S	20hh1S	1M1-	dDw
Ar pecmb	1: h71	hh0: 61-	1SSS: 6h:	1SS6- : 0-	1SS14h6S	SM4:	dDw
Ar pecmb	1: h72	41- N0h2	411N2SN	410hh0h	414: 66S	SM06	dDw
AGs PRmb	2S- 71	1060	162:	1642	160N	4M02	dDw
AGs PRmb	2S: 71	4160	46S1	4S- 4	426N	6M1:	dDw
AdC	11N71	2SS0-	1hh1:	2S- : N	2S11:	1M11	dDw
AdS Comb	4071	0N: 1:	0N4- 2	00644	0N1h0	SM01	dDw
R ps Comb	2- N71	4S- 6:	4S: - 2	4S26:	4S- N0	SM-	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP u sb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	- S2S2	- SN- 0	2h: 61	- S2SS	2M11	dDw
YTTr pe omb	10271	11240	11N14	1Sh6-	11- 41	- NM2	dDw
YTTr pe omb	10272	: 21N	: 62h	: 246	: - 64	4M2N	dDw
YTTr pe omb	10671	NS11	N4N6	0h: -	N1: S	- Mh	dDw
YTTr pe omb	10672	14- : 2	1422:	14- h1	14- 2-	SM61	dDw
YTTpomb	Nh71	1- 4401- S	1- - 1224N	1- - 46112	1- - 6N4h0	SM12	dDw
YTTpomb	Nh72	14116Nh	144- h2S	1414Sh6	142- 2- :	1M26	dDw
ZdCd	6672	- 06- 0	- 0Sh:	- 6024	- 01: 2	1M4-	dDw
ZqpdnComb	hS71	2- 021	2: 2- 2	24: 64	24: S:	- MSh	dDw
ZqpdnComb	h171	: - : 1	: - 06	: N1N	: : 1:	4M06	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP u sb r J	S: . qF UMPb

8 sps b r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb oCcmb	2072	1SS2. 01	. N: - 1.	. . N6. 1	. . : 66S	SR 2	dDw
qCTb n CE	12171	22. 6: S	2- N064	2- N206	2- : : 6-	2P1 N	dDw
qpw r Ccl	0: 72	1S1. 44	1SS2S6	1S1621	1S12: 0	SR 1	dDw
Bspcmb	1- : 71	22. - . . N	2- 14N10	22N6S. 2	22. N- S2	SP6:	dDw
Bspcmb	1- 071	4S2: S10	4SS64: 6	41S: S60	4S4: : 1-	1R S	dDw
Br pEPPmb	. 71	: 0: 4	: . N.	: 010	: N2S	2R 4	dDw
Bcwb mTG	2S. 71	0- - : 2NN	0S. : 26S	0S- N1. S	01: 6246	2P2S	dDw
Bcwb mTG	2S. 72	- 220: S-	- - - 266-	2406- 22	- S1216-	1: R S	dDw
Bpmb oCr	N171	4- S1	42S1	42N4	4262	1P26	dDw
9 sob cmb	1SN71	11. 6	142.	12. 2	1- S6	NR N	dDw
9 sob cmb	1S671	6- - :	: 06N	: N6S	: . NN	: PSN	dDw
9 sob cmb	11171	14001	14. S6	1: S16	14N. N	SPN2	dDw
9 sPlcmb	4- 71	642- 6N	6: 2. - 0	644- 06	646: 61	SPN0	dDw
9 sPlcmb	4471	1SN: N4N4	1S. - : 4N2	1SN2060S	1SN0- N0.	SR 1	dDw
9 spenC	1271	242604S	242. 2. 4	241- SS1	242- S12	SR 6	dDw
9 spenC	1272	2. - 1-	2. 21-	2N02N	2. SN:	1PS0	dDw
9 GPmpcCr	- : 71	21N61- S2	2: : : S: : 0	20010211	2: S4- S2-	11PN2	dDw
9 GPmpcCr	- : 72	2140: .	21. 2- 1	22: 14N	21. 01-	2R 0	dDw
9 Gpmb cmb	: 272	61006	6- S. 2	6- : . 1	62N1.	1P4.	dDw
9 nesPT	: . 72	6: NNN	604N6	602. 1	66NNN	1R S	dDw
9 nDDr p	6- 72	2. 124-	2. SS44	2. 24- .	2. 1242	SP41	dDw
&EwDpnwcmb	1: 671	1216- :	12N- S4	1261: 1	12: - 6-	2P01	dDw
&EwDpnwcmb	1: 672	: 12N:	: 1646	: - S62	: 1. . 0	1PN1	dDw
Upecmb	16471	60. . 2	6. N06	6. 042	6. 2S-	1R 2	dDw
Upecmb	16472	20S04	20- N:	2N- 14	20: . 1	2R 4	dDw
HsonPCcmb	16S71	. 4: 20	. 6. . -	. 6: S0	. 6SS.	1R 6	dDw
HsonPCcmb	16S72	462- -	4: 0- 2	46S06	46S14	SR 6	dDw
h nPb cmb	16: 71	1S: 124- 0	. . 6: 62:	. N2- : N1	1S1SS: 4N	- P6S	dDw
h nPb cmb	16: 72	4S64404	416. 1- 4	- 2S166:	- N110: N	1- R -	dDw
tCocmb	11: 71	0: 4N2. N	0- - 4: 22	011SN62	0- - 1220	2R N	dDw
tCocmb	11: 72	. 622S6	. 6. . . :	0- 66- 0	NN. 61-	14R S	dDw
tpnC	: 472	20N- 4N:	2041. . -	2N2412N	20N- 2S2	1P4N	dDw
tpnC	: 672	: SS04: 41	: S206S2N	: S4S: 241	: S2: 1. - 0	SR -	dDw
tpnC	: 072	11. - 1. 4	11. N: 6.	12212. 4	12S4- : 2	1P24	dDw
KpEDTnC	N- 71	- 4.	- 0:	- - 4	- : 2	: R 2	dDw
Lr so	2S671	- . 4: 6: N	4S2: SS:	4144N1S	4S- N4. 1	2P4N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DP t& J	y h SM- :	&dPmTmC MsdTnpJ	1
&sT i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP usb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S071	- - N1: N1	- - 0: 046	- 4: . S: 4	- 4S: 46S	1R 0	dDw
Lr so	2SN71	1: . S260-	16S- 6SN4	16- S216:	16SNS- S0	1R26	dDw
LdTGmb	671	26. 0S6.	2626: 1N	26- : S. 4	26: 2N. 4	1R4:	dDw
y sgOr wmb	2472	1- . S0. 2	1- . - - 10	1- . 11- 2	1- . 1040	SR1S	dDw
y sOgsOr wr	: : 72	: S2662N	: S001N4	: 1- . . N4	: SN126:	1R12	dDw
y nPEeor Omb	. 471	1N- 12S	1. S1- N	1N0: S-	1N6. 2S	1R S	dDw
y nPEeor Omb	. : 71	16: 1N6	10- S- 0	10- - S0	10S: 1S	2R01	dDw
y nPEeor Omb	. 671	1. : - S4	1. N- 02	2S- . 46	1. . 2S0	2R2S	dDw
y nPEeor Omb	. 071	1S: . 0.	1S6. 01	1S6- 4.	1S64- -	SR40	dDw
y nPEeor Omb	. N71	266100	204. - 6	20026S	2020. 1	2R14	dDw
u r noEb omb	1: S71	21. 041	22. : 4S	2- 1. . :	220S. 2	2RN6	dDw
u r noEb omb	1: S72	6N410	6N641	6. 0. 4	6N. : 1	1RS0	dDw
u dkr P	6S72	20SS6	2666N	20- . S	20S21	1R 4	dDw
8 GhwDGhpmw	- 172	1460:	14N. 1	1: 1: N	14. SN	1R62	dDw
8 nTswwmb	- . 72	6N006-	60N- 6-	6N40N1	6N- 6- 6	SR0S	dDw
F Ghoomb	1S- 71	0: 61: 11	0116006	6N6- - . 4	01NS: 6S	4R 2	dDw
F Ghoomb	1S- 72	- 2S46. -	- 1. 0. - 0	24N126N	2. 61- SS	14RS4	dDw
I ds Coomb	4: 71	: S- N602	40S2246	4022140	4N21S21	- R 2	dDw
I ds Coomb	4: 72	1: S: 1S	14N: 2-	1142: N	1- 0064	14R0.	dDw
I r P Comb	N271	0:	: 2	1: :	. 4	: 0R21	dDw
I r P Comb	0072	21S	2- S	210	21.	4R6:	dDw
I r P Comb	0N72	160	10.	1. .	1N2	NR S	dDw
I dRdnC	2N71	112S: 64N	114S4. : .	112NS1- -	112. 6. 1-	SRN.	dDw
I dPr p	1S071	N. . : 2	. 2. S4	. 11: -	. 1- - 6	1R6-	dDw
I dPr p	1S. 71	N. S02	NN4- 4	NN426	NN644	SR42	dDw
I noomb	2- 72	2: 0004	2: 6. 16	261S: N	2: N: N-	SRN:	dDw
I TpmCTomb	N671	N2- 4- 2	N6S16S	N- 0- : N	N4S- 10	2R21	dDw
I TpmCTomb	NN71	0- 66202	0: 0: NSS	040. 6- .	040- . S4	1R4S	dDw
I mPmp	- 471	2. . 4S4	- S2: 4:	- S1- 1.	- S1SN.	SR-	dDw
Ar peomb	1: . 71	1S062401	1S1S0164	. . - 2: 66	1S2604SS	4R26	dDw
Ar peomb	1: . 72	4S60. : 1	4S1N- 0S	- 124N2.	- 0- 0S: S	14R2S	dDw
AGsRmb	2S- 71	21: 20	2S0. 2	22S0N	2146:	- RSS	dDw
AGsRmb	2S: 71	4. 41.	: 1- - 6	: 244S	: 1S6:	2R.	dDw
AdC	11N71	11S1-	11002	110: :	11: 1-	- R0	dDw
AdsComb	4071	- 0S210	- NS4- 2	- 004N1	- 06S4-	1R4S	dDw
5 ps Comb	2- N71	2. 1NS6	- S6S02	- SS: : N	2. . 40.	2R4S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DPP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdPP u sb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	: 172	4110: N	410- 62	41N- : -	41: N24	SRN6	dDw
YTTr pe omb	10271	1: 01S	16NN6	1: N- :	16144	4RSS	dDw
YTTr pe omb	10272	061.	061.	0640	062N	SR21	dDw
YTTr pe omb	10671	12S. N	1212-	1244S	1222S	1R 6	dDw
YTTr pe omb	10672	1: . 6S	1: . 1:	1- 02.	1: 2S2	NR .	dDw
YTTpomb	N. 71	14NS- 2S-	1- . 0. : N6	14S2N- - 4	1420S- 04	- R24	dDw
YTTpomb	N. 72	1- 66- 41	144N: 10	1S6: 2S0	12. - - : :	1: R6S	dDw
ZdCd	6672	: 2N- . .	: - - 2- 4	: - . N- :	: - - N2-	1RSN	dDw
ZqpdnComb	. S71	24S- 14	24. S: .	24: - . .	244. 24	1R0.	dDw
ZqpdnComb	. 171	: 6140	: 6S64	: : N6-	: 6S2:	SR26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d &be q dpe	2072	1S1- 614	1SS2a- -	aa01- 4	1SS4: 6S	SRu-	Ol l
d . iqe C. E	12171	22: - 62	220- u6	2- 2aS-	22u: : S	1R01	Ol l
dll p. qO	0: 72	1S- 02:	1S4: 02	1S- 1uS	1S- u26	SR6u	Ol l
Bwldpe	1- : 71	u02a61	uu2S61	aS- S: 1	uu6S24	1R04	Ol l
Bwldpe	1- 071	16- 66: -	16: 1- 6u	16642S-	16: S041	SRu4	Ol l
BplE&&pe	a71	: 6Sa	: 610	: : S2	: : 06	1R1:	Ol l
Bdqe biG	2Sa71	6: : S6- S	04u- 162	6a124aa	6au2Sa0	6R0-	Ol l
Bdqe biG	2Sa72	- 10S01:	- 216: 44	- 210: uu	- 2S1616	SRu4	Ol l
BlCe q p	u171	4206	4- 10	4- 60	4- 2S	1RS6	Ol l
9 wne dpe	1Su71	14- -	12: 4	1- 0:	1- : 4	6R0:	Ol l
9 wne dpe	1S671	: - 6u	62a-	: u: 1	: u- 0	0Ra-	Ol l
9 wne dpe	11171	14021	1: 264	14- 1S	1406:	- R24	Ol l
9 w&Odpe	4- 71	0- 2211	0- 00u6	0- 2- 0S	0- 412-	SR4-	Ol l
9 w&Odpe	4471	122- S2: 6	12- 6uua6	12: - 0001	12- 0ua04	1R24	Ol l
9 wlr C.	1271	2- 41S- 0	2- : 0a24	2- 2u022	2- 42: 61	SR6-	Ol l
9 wlr C.	1272	2u- 0u	2uSS2	2u- 61	2u240	SR0:	Ol l
9 G&Clq p	- : 71	21a- 044-	2: 16aa2a	201a41S2	240601: u	1SR01	Ol l
9 G&Clq p	- : 72	2S040a	21S2S1	21u2Sa	211a6-	2R6-	Ol l
9 GlCe dpe	: 272	4aa6-	4a41u	4a26:	4a: 4a	SR04	Ol l
9 Or w&	: a72	6- - 1S	6- S2:	6- 1aa	6- 10u	SR2-	Ol l
9 Ot t pl	6- 72	- 61S: a	- : : S44	- 6S00:	- : ua6S	SRa:	Ol l
TEl t lCl dpe	1: 671	11: 24:	112: aS	114u- :	11422-	1R2:	Ol l
TEl t lCl dpe	1: 672	46u- 2	40062	46: 10	40S- 0	1Ru	Ol l
Ulr dpe	16471	6S- a0	6S- S4	61- - :	6S60u	SRa4	Ol l
Ulr dpe	16472	24: S6	2- auu	24- : 6	242u-	1R1S	Ol l
HwnC&q dpe	16S71	u4S: u	u62- S	u6: u2	u: 62-	1R6S	Ol l
HwnC&q dpe	16S72	- a606	41S2S	4Sa6-	4S: : -	1Ru0	Ol l
h C&e dpe	16: 71	a1ua242	1Su10u: S	au00u62	aa616: 1	uR21	Ol l
h C&e dpe	16: 72	4212: 4-	410u- 1:	412a016	410- : 2:	1RSS	Ol l
& ndpe	11: 71	66SaS- 1	0u: 26u2	0S: 0a1a	010- 211	uR0u	Ol l
& ndpe	11: 72	a4a- u1	a- 61- -	a- 02S6	a4SaS6	SR0u	Ol l
&C.	: 472	26- 1S2u	26- 26a-	2: 00114	261- 612	1R21	Ol l
&C.	: 672	46a: 60a0	466122: u	461a04: 0	46: uuu- 0	SRu2	Ol l
&C.	: 072	112- 66u	11S066:	111S- - :	111- uua	SR00	Ol l
KIEt iC.	u- 71	- - 6	- - S	- - 1	- - 2	SRaa	Ol l
Lpwn	2S671	- 41a- 42	- - 06u00	- 41u: 4u	- 4S4a22	SR01	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	&l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u6: a16	2ua: 0S-	2aS2Suu	2uu0aS2	SR60	Ol l
Lpwn	2Su71	1- 4- 0146	1- 44: 0a-	1- 6S- 4aS	1- 4a: 400	SR6a	Ol l
LqiGdpe	671	24- - a16	20aSaa1	2: 400a0	2: aSaS2	0RS4	Ol l
y wg. pl dpe	2472	116141a	11: 0Sa0	11uu: S6	116aSS0	1R46	Ol l
y w. gw. pl p	: : 72	: 1a21- 6	: Sa040S	: S040: 1	: 1214: 2	1R22	Ol l
y O&Er np. be	a471	1u6u0u	1uau26	1uaS4S	1uu: u1	SRu1	Ol l
y O&Er np. be	a: 71	1u4: Sa	1u0- 6-	1u- 644	1u: 102	1RS:	Ol l
y O&Er np. be	a671	2126- u	21- u10	214626	21- 6a4	SR40	Ol l
y O&Er np. be	a071	114- 4:	11u6au	11- : : 6	11: : - -	2R4S	Ol l
y O&Er np. be	au71	2a6- aa	- S: 4au	2a01: :	2aa6u4	1R6u	Ol l
mpOnEe dpe	1: S71	1aaSu:	2S12- 2	2S410-	2S14a0	1R20	Ol l
mpOnEe dpe	1: S72	610a2	6Su: 1	61: 60	614S-	SRuS	Ol l
mqOkp8	6S72	20: S0	26u: a	202u-	20216	1R21	Ol l
NGOl t GOlbl	- 172	12- 14	124: 6	12214	12- 2u	SRaa	Ol l
NOiwl l dpe	- a72	6uuSS2	6a: aaS	6u: - Su	6ua060	SRu1	Ol l
F GOndpe	1S- 71	6: 0Su1u	0: : a: a4	0S1ua42	0S4a0u:	0RS2	Ol l
F GOndpe	1S- 72	- 1a04- S	- 1u461u	- 114: 1a	- 16: : 22	1R41	Ol l
DOw. ndpe	4: 71	440: 6a0	4aa2aua	4: 06a16	46u1u60	: Ru6	Ol l
DOw. ndpe	4: 72	1402S6	140S0:	140010	140- - -	SR2-	Ol l
Dp&p. dpe	u271	11:	1S:	1- :	11u	12Ra1	Ol l
Dp&p. dpe	0072	1uS	16S	1u-	104	0R24	Ol l
Dp&p. dpe	0u72	14u	1u:	141	1: u	14Ra6	Ol l
Dq&qOC.	2u71	1162- 642	11624u2S	116SaS2-	1161a162	SRSu	Ol l
Dq&vpl	1S071	u: 41:	u4a0S	u42S0	u4u64	SR02	Ol l
Dq&vpl	1Sa71	uS1: 1	u2a0:	uS41a	u11u2	1Ra2	Ol l
DOndpe	2- 72	2- 2- uS	2- 142:	2- 1062	2- 1u: 6	SR21	Ol l
DilC. idpe	u671	a: 2S21	a46aS0	a: 06: u	a: 21a:	SR 6	Ol l
DilC. idpe	uu71	u- 6a- u6	u62a- S-	u: S- 0: 0	u: SSu16	1R -	Ol l
Db&bl	- 471	: - 4a24	: - uu66	: 440: S	: - a: 1-	SRa2	Ol l
cplr dpe	1: a71	a: 2- 6S0	1S006: 6S	auu2u6:	1SS61S11	6R41	Ol l
cplr dpe	1: a72	4S4411a	4S: 0600	41Su- 02	4S0SS: 6	SRu-	Ol l
cGw&&pe	2S- 71	10001	10621	101- 0	10: Sa	1Rua	Ol l
cGw&&pe	2S: 71	42- u0	41- 24	4- 44a	42- u0	2R 1	Ol l
cq	11u71	1S4- u	12- 0-	1Sa6-	112: u	uRua	Ol l
cqiw. dpe	4071	- S0u6u	- S4u0-	- S61uu	- S6- 1S	SR4a	Ol l
5 lw. dpe	2- u71	2a: a6S	2ua64u	2a: uu:	2a- u- 1	1R2-	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	: 172	- 642SS	- 66aau	- 6410u	- 6: 12:	SR44	Qtl
Yiiplr dpe	10271	1- 204	142u-	1- uSu	1- 0uu	- R36	Qtl
Yiiplr dpe	10272	646-	60uS	6u: 0	60SS	- R12	Qtl
Yiiplr dpe	10671	1S: uS	1S- - u	1Sa21	1S61-	2R06	Qtl
Yiiplr dpe	10672	14u2S	140u6	1: 6: a	1: Suu	- R2u	Qtl
Yiildpe	ua71	1- S1S- 0a	14u201- -	1- u2- - S6	1- uu6a- a	6R:	Qtl
Yiildpe	ua72	1- - Su6u	1- - 02aa	1- 2S12S	1- 2a42a	SR6:	Qtl
Zq O	6672	: S64a4	: S66u0	4a04: 0	: S- : 46	1R5:	Qtl
Zdl OC. dpe	aS71	22- 1- 1	22- - aS	2- 1604	226S6:	2R1:	Qtl
Zdl OC. dpe	a171	: 16uS	: S64-	: 211:	: 140a	1R40	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8iqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
8be qCdpe	2072	6SJS- 4	6SSJS-	Jh- u66	JhhuS1	SM14	dt l
Ciqe nCE	12171	4- S1	4426	4J4-	442-	2M0-	dt l
Il pCqd	0J72	12- S-	12- - 4	12- 6u	12- - J	SM26	dt l
Bwldpe	1- J71	401h41	4uJJ6-	4u- 262	4uS2JJ	1M12	dt l
Bwldpe	1- 071	u- 0J6J	u46424	uJSJJ4	u44u4u	SM0h	dt l
BplE8dpe	h71	24S6	24u0	2J- 4	2406	2M61	dt l
Bdqe biG	2Sh71	6uS0622	6h0hJ- 0	6u222u1	6u6hu1-	1Mh	dt l
Bdqe biG	2Sh72	- - S- uS6	- 2J1110	- 22SJ6J	- 2Ju4h6	1M2h	dt l
Blne qCp	u171	601S	02J2	0200	0SuS	4M-	dt l
5 woe dpe	1Su71	242	242	260	2JS	JM00	dt l
5 woe dpe	1S671	4J4-	4S26	4- S1	42hS	6M8-	dt l
5 woe dpe	11171	2J2-	2- SS	2- - J	2- u6	JM82	dt l
5 w8ldpe	4- 71	- 162Su	- 2- 1uh	- 226JS	- 2S6u2	1M21	dt l
5 w8ldpe	4471	J4Su4u-	JJ1SuJ2	J4J6uJ4	J4Ju0- S	SM14	dt l
5 wlr nC	1271	6Su0- 6h	66SJ66h	6JhS- 44	64200h4	4Mh	dt l
5 wlr nC	1272	u1uJ-	0hh2J	u241J	u1- hu	1M0S	dt l
5 G8nlqCp	- J71	21S0620u	2JS0S- 66	20SSJh- S	24- u41h1	12M4S	dt l
5 G8nlqCp	- J72	2S1h00	2Su- Sh	212S1u	2S04- J	2M4J	dt l
5 Glne dpe	J272	- 660-	- 66S4	- JhJ2	- 641S	1M8h	dt l
5 nr w8	Jh72	40u1-	4h62-	40606	4u- 01	2M2J	dt l
5 nt t pl	6- 72	102S2S	10S62u	10SJ41	101S6-	SM4h	dt l
TEl t Inl dpe	1J671	6h6Ju	0S- 61	60u22	6h2uS	1Mh	dt l
TEl t Inl dpe	1J672	2u614	2uh0u	2uJ04	2u022	SM0u	dt l
Flr dpe	16471	J- 042	JJhh-	J6S44	JJ26S	2Mu	dt l
Flr dpe	16472	2210J	221- 2	21u02	22S6S	SM04	dt l
Hwon8qCdpe	16S71	Jh2J0	62S0h	61h0u	611SJ	2M62	dt l
Hwon8qCdpe	16S72	2u610	2h6uS	2h1J2	2h1JS	1M12	dt l
y n8e dpe	16J71	hhSh11u	1SSS4S61	h0JhJu6	huhSh22	1M2J	dt l
y n8e dpe	16J72	41u- SS0	412004S	4142Sh2	41JSh46	SM8h	dt l
&Codpe	11J71	0S014- 6	02- h- JJ	6h42J- 6	0Su4442	2M1S	dt l
&Codpe	11J72	hJ- 1h0	hJ2102	hJ2- 4S	hJ2J0S	SM86	dt l
&nC	J472	- S2h2- 4	- S- uSu6	- S4J12h	- S- 04u-	SM26	dt l
&nC	J672	JJS21- JJ	J4616u- h	J- h0J01u	J4J- 0h01	SM10	dt l
&nC	J072	1- h- Jh-	14Sh646	1- 611hS	1- uu14-	1M0u	dt l
KIEt inC	u- 71	- 26	- 1S	- 26	- 21	2M12	dt l
Lpwo	2S671	4hhS2S	4h611J	4h14J6	4hJJ- S	SM00	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Cl ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja-2aS4	TwiwUq8p:mwe p:a	S61 . FUM

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqpl
Lpwo	2S071	41- 1S-	41S1hS	4S6Suh	4Sh0h4	SM16	dt l
Lpwo	2Su71	1h2J06h	1h2h06S	1h42- 1-	1h- 2614	SM4J	dt l
LqiGdpe	671	2J24- 22	2JJ4hh0	2661JuJ	2JuS- S1	2M0h	dt l
9 wgCpl dpe	2472	0h1S1h	u1S6u-	uS1661	uS1121	1M2-	dt l
9 wCgwCpl p	JJ72	uS1u01	uS6410	0hh616	uS26- J	SM4-	dt l
9 n8Er opCbe	h471	201S2	204u6	20J61	20- u-	SM1S	dt l
9 n8Er opCbe	hJ71	611S	6SJ1	J406	Ju0h	JM16	dt l
9 n8Er opCbe	h671	1S46-	1S212	1S- 01	1S- 4h	1M22	dt l
9 n8Er opCbe	h071	- - Sh	- JS1	- J42	- 4J1	- M61	dt l
9 n8Er opCbe	hu71	h162	h60h	h4hJ	h44J	2M00	dt l
mpnoEe dpe	1JS71	1161- 2	11JuJ1	11uJhh	116u61	1M2h	dt l
mpnoEe dpe	1JS72	- J- - S	- 4h4h	- J644	- J- Su	SM1h	dt l
mqdkp8	6S72	24uJh	24huJ	24002	24u02	SM4-	dt l
NGnl t GnIbl	- 172	u16h	0061	0J6h	0u- -	- M12	dt l
Nniwl l dpe	- h72	4S604S	410h1-	4S0110	41SJhS	1MJJ	dt l
. Gnodpe	1S- 71	6h0Sh60	0146600	01u464S	01SS061	1M61	dt l
. Gnodpe	1S- 72	- 21hu6u	- 24614S	- 1h2hu4	- 21h664	SMJ-	dt l
DdwCodpe	4J71	46SJuu-	402J- SJ	4010u- u	46u- SSh	1M4-	dt l
DdwCodpe	4J72	140Su2	140166	146h04	140S04	SM80	dt l
Dp8pCdpe	u271	2- 2	1h0	2S0	212	uM4u	dt l
Dp8pCdpe	0072	12-	1- S	h-	116	16M1S	dt l
Dp8pCdpe	0u72	11S	uJ	124	1S6	1uMJu	dt l
Dqqdn C	2u71	1J6Jh2h0	1Ju444hu	14hh- 26S	1J4hhS1u	2MJh	dt l
Dq8vpl	1S071	2u10	- 1Jh	2uh2	2hJ6	6M8u	dt l
Dq8vpl	1Sh71	2uSS	200J	2JSh	26hJ	6M8S	dt l
Dnodpe	2- 72	61h16	61S0S	62Sh1	616h2	SMJh	dt l
DiInCidpe	u671	2u606u	2hh21S	2h20h-	2h2h24	2M12	dt l
DiInCidpe	uu71	26SSu02	20102- S	266h1Jh	266242S	2M2S	dt l
Db8bl	- 471	- S4hSu	- S- - uu	- S101S	- S- - - 6	SMJ-	dt l
cplr dpe	1Jh71	1S14J40u	1S24J- 1J	1S140Ju1	1S10h4Ju	SM16	dt l
cplr dpe	1Jh72	4S- 2u41	4S100- 1	4S00u24	4S420hh	SM00	dt l
cGwq8pe	2S- 71	2410	2- 0J	2- u4	2- h2	SM12	dt l
cGwq8pe	2SJ71	J1S1	J1h-	J1- 4	J14-	SM1S	dt l
cqC	11u71	u1h4	u6- 6	u4- 6	u422	2M4-	dt l
cqwCdpe	4071	1SS2h2	1S1Shu	hh- 1u	1SS2- 6	SMJh	dt l
RIwCdpe	2- u71	0uhh6	0h- 2-	0h- JJ	0h22J	SM2J	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T :a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T :a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqil
VwCwodpe	J172	6hS4J	6u- 2h	6uhJ6	6u000	SMl0	dt l
Yiiplr dpe	10271	16244	1020S	164S2	166- h	- M2	dt l
Yiiplr dpe	10272	0- u6	00h0	06u6	062-	2M7h	dt l
Yiiplr dpe	10671	11h02	11h40	110- h	11uu6	1M8u	dt l
Yiiplr dpe	10672	1J01S	1J621	162u2	1Ju01	2M26	dt l
Yiildpe	uh71	1- 40h646	1- uJS6Su	1- uSJ0uh	1- 012S14	1M4u	dt l
Yiildpe	uh72	141SJS2	1- 626J1	1- 4J1- J	1- 0206-	2M46	dt l
ZqCd	6672	uh- S6	uu26-	u00hS	uu4J-	SMlu	dt l
ZqdnCdpe	hS71	6- 1u6	6- h02	64h- J	64S- 1	1M10	dt l
ZqdnCdpe	h171	14S04	1Ju06	14u2J	14h2J	6M36	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8 l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNt . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9 r l .	F3l y l &	5 . dP
qNmb c omb	20:2	1-4	14-	10	1-	11N31	dDP
q. Tb C. h	121:1	-S	0-	77	-7	7 N04	dDP
qpPr . cl	0-:2	4	6	-	-	2SN3S	dDP
Bl pomb	17-:1	160	-s	1SS	1Ss	-SM44	dDP
Bl pomb	170:1	742	1Ss	s7	10s	sSM14	dDP
Br phNNmb	:1	-4	4	4S	40	14N04	dDP
BcPb mTE	2S :1	60SS4S1	60s0-s	661 76s	60S24-7	1N26	dDP
BcPb mTE	2S :2	711000S	72224-0	7102S -	710S004	1N0-	dDP
BpCb c r	s1:1	7042	70 2	7006	700S	SN0s	dDP
Fl ob omb	1Ss:1	s	s	10	11	47N74	dDP
Fl ob omb	1S6:1	77S	7S-S	7726	722s	4N0s	dDP
Fl ob omb	111:1	7-s	74	7-4	7-4	1N7S	dDP
Fl Nlomb	47:1	7S	2s1	2-2	2s1	1SN32	dDP
Fl Nlomb	44:1	77041	77SS6	72--S	77S	1N42	dDP
Fl peC.	12:1	226047S	224-0-2	22 2Ss-	226s427	1N32	dDP
Fl peC.	12:2	2sS-2	20s 4	2s-70	2s161	1N1	dDP
FENQpc r	7-:1	77744s0	71676 -	717SsS0	72S 667	7N41	dDP
FENQpc r	7-:2	1 7sS	1 0S-	1 7 0	1 4 4	SN4	dDP
FEpCb omb	-2:2	1S 0	1S-0	12-0	1170	N71	dDP
FCel NT	- :2	70	47	6S	40	2-N0-	dDP
FCDDr p	67:2	1S7S	s2S	-S	77	11N76	dDP
&hPDpCPomb	1-6:1	2-	10	s	10	-SN31	dDP
&hPDpCPomb	1-6:2	7	0	7	4	47N4S	dDP
Upeomb	164:1	s7	-S	-S	61	71NS	dDP
Upeomb	164:2	70	20	2S	2s	7SN2S	dDP
Gl oONd omb	16S:1	-S	60	1SS	02	7-N2-	dDP
Gl oONd omb	16S:2	127	14S	11S	124	12N3s	dDP
HONN omb	16-:1	47 414	10s2 s	--06-4	7 10s	2N30	dDP
HONN omb	16-:2	41 0 s0	41-s 7	4S0- 4-	41447S	1NS	dDP
t. oomb	11-:1	60s s47	6 -6206	6 67 -1	6 S77-0	1N47	dDP
t. oomb	11-:2	4-061	s-S00	-46-6	61s71	2N14	dDP
tpC.	-4:2	461	-10	411	467	11N41	dDP
tpC.	-6:2	7--1	-0-	470	4-67	24N4-	dDP
tpC.	-0:2	111	210	1s7	10S	71N60	dDP
KphDTC.	s7:1	262	2-2	241	2-2	4N22	dDP
Lr l o	2S6:1	170s	1122	1110	12S6	12N7s	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8 l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNr . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUM

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl.	F3l yl &	5. dP
Lr l o	2S0:1	122s	1S2s	1S22	1S 7	1SM02	dDP
Lr l o	2Ss:1	-4S1	44 -	467	4s4-	1SM34	dDP
LdEcmb	6:1	24S0s64	2-7SS1	2440002	2461ss-	2M7	dDP
9l g. r Pcmb	24:2	177	2-s	10-	1s	77M	dDP
9l . gl . r Pr	- - :2	127	107	4S0	27-	64M7	dDP
9 CNeor . mb	4:1	210	2SS	1SS	102	76M4	dDP
9 CNeor . mb	- :1	0-	0-	110	s	20M0	dDP
9 CNeor . mb	6:1	260	142	12-	10s	47M6	dDP
9 CNeor . mb	0:1	60	-s	s	44	0SM	dDP
9 CNeor . mb	s:1	142	60	s7	0	4SMS	dDP
ur Cohb cmb	1-S:1	4S	2S	20	2	7-M-	dDP
ur Cohb cmb	1-S:2	S	1S	0	6	1M4	dDP
ucdkr N	6S:2	20	6S	-7	40	70M	dDP
3 ECPDECpmP	71:2	1Ss	1-s	1 2	1-7	20M-	dDP
3 CTl PPcmb	7 :2	612	6S7	1SS-4	0-6	2M4	dDP
y ECocmb	1S7:1	6s62-7s	6 -6162	6s6s4 -	6s -072	SM6	dDP
y ECocmb	1S7:2	72-0-s0	7200S-S	72S4 S4	7246-14	1M-	dDP
l dl . ocmb	4- :1	44- -S66	4-16- -2	47- 0s-	4447sS1	1Ms	dDP
l dl . ocmb	4- :2	14S126	1467s1	1426S1	147S76	2MS	dDP
l r Nl . cmb	s2:1	1	:-	4	S	SMS	dDP
l r Nl . cmb	00:2	0	S	S	2	107M1	dDP
l r Nl . cmb	0s:2	1-	14	21	10	22M2	dDP
l dcdC.	2s:1	1sS611	10-s21	1060s	100041	1M2	dDP
l dNr p	1S0:1	160	1s7	110	1-6	22M7S	dDP
l dNr p	1S :1	1 2	1 2	12-	16	22M1	dDP
l Cocmb	27:2	21S 1	21-42	21416	2174	1M	dDP
l TpC. Tcmb	s6:1	-60	-60	6Ss	-s1	4M4	dDP
l TpC. Tcmb	ss:1	2S10	1410	12-S	1-61	2-M7	dDP
l mNmp	74:1	2-41 2	2- 2S	2-s1-7	2-0422	1M4	dDP
Ar pecmb	1- :1	- 202s	-106 -	6-66s1	-s S7-	SM7	dDP
Ar pecmb	1- :2	4SS-6-1	41S4S40	7 40S07	4S1s 24	1M0	dDP
AEl NNmb	2S7:1	7SS	410	4-s	7 2	2SM6	dDP
AEl NNmb	2S- :1	2-	sSS	-S	s 2	M1	dDP
Ac	11s:1	1S42	12SS	12Ss	11-S	sM0	dDP
AcT . cmb	40:1	1-S	142	1-s	1-S	-M6	dDP
5pl . cmb	27s:1	s7	77	10	44	0sM0	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	n Dr pl TCpla	wl P8l N
Ll eJl b DNJt&Jal	3B1-7 21BL	t. PTpmb . r TJul b r Ja	3s
FNr . TJl b DNJt&Jal	3Bl 21	&dNTC. JRl dTCpla	1
&l Tr J JAdb r JqdOmpr o Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJul b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl .	F3l yl &	5 . dP
Vl . l ocmb	-1:2	20	4S	7S	72	21M7	dDP
YTTr pecmb	102:1	-S	77	0-	-7	7 M04	dDP
YTTr pecmb	102:2	22	77	2s	2s	2SM3S	dDP
YTTr pecmb	106:1	1277	1210	11Ss	11s6	-M02	dDP
YTTr pecmb	106:2	1S701	1S0s2	1S77s	1S4 0	2M76	dDP
YTTpcmb	s :1	12766sS0	122 S-1S	122-17SS	127S2s02	SM4s	dDP
YTTpcmb	s :2	1262s2-	17s2716	172127S	1722124	4M2	dDP
Zc d	66:2	1S7	16S	1-S	17s	21M-	dDP
ZqpdC. cmb	S:1	-60	7 2	7Ss	422	71M27	dDP
ZqpdC. cmb	1:1	42	1Ss	s7	0s	47M7S	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l T Rdpamle pas	S67LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14 6	1-61	1-4S	1-72	2M16	dDP
q. Tde C. h	121J1	16SS1	1010u	107S7	16u20	4M20	dDP
qlPp. cd	0-J2	24u	276	2-6	240	4N3u	dDP
Bl ldbe	17-J1	1u1uu	1 S 0	1u-uS	1u622	2M4-	dDP
Bl ldbe	170J1	7S676	726-0	72004	72S22	7N0-	dDP
BplhNNbe	J1	2246	2211	22 1	224	1N0u	dDP
BdPe bTE	2S J1	616-4S6	6u-2S40	601S-S-	6-0- u6	-M1	dDP
BdPe bTE	2S J2	72S2 u2	71-1674	72S1464	71u-76S	SM2	dDP
BlCe c p	u1J1	4S-1	7642	4106	7 -6	0N3-	dDP
Fl oe dbe	1SuJ1	1-4	1uu	142	161	14N0S	dDP
Fl oe dbe	1S6J1	70S	76-1	7 42	7060	4M1S	dDP
Fl oe dbe	111J1	2022	2-uu	2-70	2616	7N04	dDP
Fl Ndbe	47J1	121u	122u1	11 0-	1214u	1N2	dDP
Fl Ndbe	44J1	224110	226 S	2266-1	22- 1	SN0S	dDP
Fl lr C.	12J1	27S14uS	22 4 Su	272 20-	27Su--4	SN0	dDP
Fl lr C.	12J2	20210	2uS-2	20u47	200S4	1M0	dDP
FENCl c p	7-J1	21-S0uu	2S4- -7	2S2S6 0	2S0240	7N7	dDP
FENCl c p	7-J2	170	12u4u	12u4u	1716-	4M10	dDP
FElCe dbe	-2J2	67-1	620-	6S71	621	2N4	dDP
FCrl NT	- J2	4u21	4u64	4064	4u16	1N34	dDP
FCDDpl	67J2	u42	u0 7	u6S6	u6S	2M1	dDP
&hPDlCPtbe	1-6J1	10	S	u	u	1SSN32	dDP
&hPDlCPtbe	1-6J2	7	0	0	6	74N0S	dDP
Ulr dbe	164J1	-S	77	-u	40	26M6	dDP
Ulr dbe	164J2	27	70	1S	27	-0M1-	dDP
Gl oCNl dbe	16SJ1	60	0-	12-	u	7-MS	dDP
Gl oCNl dbe	16SJ2	11S	177	1-0	177	10MS	dDP
HCNe dbe	16-J1	u6677-6	-406uu	-u-0u1	26-6Su	-N07	dDP
HCNe dbe	16-J2	4Su606	412 Suu	42241S6	41466-4	1N0S	dDP
t. odbe	11-J1	67666 0	6u0 26	0S-2 72	60662	-N20	dDP
t. odbe	11-J2	u2uSu	47u7-	60 4-	64u67	2N34	dDP
tlC.	-4J2	22 67	27SSu	27-14	27162	1M2	dDP
tlC.	-6J2	42 11-	422-4-	42-6uu	42-0u2	SN00	dDP
tlC.	-0J2	1S4u2	1S-u0	1S670	1S-6	SN0-	dDP
KlhDTC.	u7J1	261	2-4	2-S	2--	2M4-	dDP
Lpl o	2S6J1	u-76	1S7	S64	u S1	7M6	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamlepas	S67LF: UMd

3lll e pTpl	9lPP	F3: 1	F3: 2	F3: 7	F3: 9pl.	F3: y: &	5. dP
Lpl o	2S0J1	000-	u240	001	0 14	7M60	dDP
Lpl o	2SuJ1	7-271	76uuu	7-62S	7- 17	2M41	dDP
LdEdbe	6J1	2774607	24u-- 7	2-112-	2447u42	7MS	dDP
9lg. pPdbe	24J2	1S17-1	1S7-S1	1S224	1S2760	1M3-	dDP
9l. gl. pPp	--J2	1740	1707	1777	17-1	1M1	dDP
9 CNr op. be	4J1	10uS4	1u270	10-62	10u6u	1M2	dDP
9 CNr op. be	-J1	21 47	21626	22020	22S	2M0	dDP
9 CNr op. be	6J1	2427u	27-01	2--S0	2447	4M37	dDP
9 CNr op. be	0J1	14S04	17-04	174	1701-	2M2u	dDP
9 CNr op. be	uJ1	74247	7-1u0	7-u64	7-S u	2M72	dDP
mpCohe dbe	1-SJ1	2S	17	2S	1u	21M06	dDP
mpCohe dbe	1-SJ2	7	7	0	4	47M4S	dDP
mdkpN	6SJ2	14 0	144S	17u0	1441	7M12	dDP
3ECPDECIbP	71J2	277	177	142	16	72M0-	dDP
3CTl PPdbe	7 J2	01247	01Su4	0S024	01S10	SM70	dDP
y ECodbe	1S7J1	62-u407	6 S6S7S	6 -02-0	60S02-7	-M41	dDP
y ECodbe	1S7J2	771-6S	716 S0-	7222S7	727--04	2M2	dDP
: dl. odbe	4-J1	4S u62	46S-70u	44 646	44SS-0S	6M3-	dDP
: dl. odbe	4-J2	14-02	17 72	14-4 2	14701u	2M2u	dDP
: pNp. dbe	u2J1	021	1	u14	u1u	12M3u	dDP
: pNp. dbe	00J2	20	7S	7S	2	6M4-	dDP
: pNp. dbe	0uJ2	1		S	7	-M2u	dDP
: dNdC.	2uJ1	270770	2760 4	270764	27016-	SM14	dDP
: dNpl	1S0J1	114--	11614	1S 7u	11776	7M12	dDP
: dNpl	1S J1	1S4 6	1S001	1S uu	1S0-2	2M2	dDP
: Codbe	27J2	1 7027	1 6SuS	1u 0u1	1 71 -	1M4-	dDP
: TC. Tdbe	u6J1	2 42	7S74	7S74	7SS7	1M06	dDP
: TC. Tdbe	uuJ1	22061	22 11	27S2u	22 SS	SMu	dDP
: bNbl	74J1	26766u	26-740	26u67u	26-uu4	SM-	dDP
Aplr dbe	1- J1	1u4u2S	00001-	0-2-6-	-010SS	7MS	dDP
Aplr dbe	1- J2	7 7uu1	7 21127	4S 41S2	4SS7S7-	2M10	dDP
AEl Ndbe	2S7J1	2 -	046	0-4	- u	2M07	dDP
AEl Ndbe	2S-J1	22412	27 4u	241u1	27-14	4M3	dDP
Ac	11uJ1	11-S	17S	1742	1260	uM3	dDP
AdT. dbe	40J1	6-7-	6747	- 06	62u-	4M2	dDP
5ll. dbe	27uJ1	722SS	721 2	72S4	72140	SM26	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamle pas	S67LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	u60	700	0 S	60u	2M07	dDP
YTpIr dbe	102J1	42	-S	0-	-6	71M22	dDP
YTpIr dbe	102J2	2u	2u	77	7S	1SM1	dDP
YTpIr dbe	106J1	1110	12SS	1S0-	1171	-M07	dDP
YTpIr dbe	106J2	1S400	u-	11S77	1S4-6	-M61	dDP
YTTdbe	u J1	11--- -7	12-- 47-	12u72u60	12716Su-	-M46	dDP
YTTdbe	u J2	17-7460	124-76	126-S60	12u0 6u	4M40	dDP
Zc d	66J2	24 0	2244	2440	27 6	-M0S	dDP
ZddC. dbe	SJ1	144-u	14u10	1460-	146-S	1M27	dDP
ZddC. dbe	1J1	7-74	7142	7460	77u1	6M2S	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdPP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N2hSNS	N24020	N14h4N	N22h1N	SMMN	dDw
qCTb nCE	12171	2- 0:	24N4	22h2	2- N4	4NS-	dDw
qpwr Ccl	0: 72	20Nh	201-	2622	20SN	- NSh	dDw
Bspcmb	1- : 71	40464S	4h- 240	4h- : S2	4N01- S	2M02	dDw
Bspcmb	1- 071	N66h4h	N0S2- 2	N001: 4	N0144:	SM0S	dDw
Br pEPPmb	h71	1N- h	1h14	1h04	1hSh	- M4	dDw
Bcwb mTG	2Sh71	02h: 241	0S242: :	6: - 6h6h	6h: 21: :	: M-	dDw
Bcwb mTG	2Sh72	- 26N0- h	- 1: N: - -	- 2S: 26h	- 21SN40	1M02	dDw
Bpmb cOr	N171	646N	0S6h	0: S2	0S1-	0M4S	dDw
5 sob cmb	1SN71	16-	1SN	121	1- 1	21M02	dDw
5 sob cmb	1S671	42- 4	- h60	4126	41Sh	- M20	dDw
5 sob cmb	11171	16: 6	1: 2h	1: 2S	1: 6N	4MM-	dDw
5 sPlcmb	4- 71	0- : 0NS	0: SS- N	0: 0hSh	040hSh	1M1S	dDw
5 sPlcmb	4471	1224Nh20	12: 06: 1S	12: NN- 0S	1240126h	1M4	dDw
5 spenC	1271	4NN16SS	: 2S6S2N	: 1216- :	: S6h0: 4	- M2	dDw
5 spenC	1272	62204	6- Sh4	616: :	62- 41	1M16	dDw
5 GPmpcOr	- : 71	12NS1NN1	16022: 22	1h- 0- 22h	162hh211	2SM2N	dDw
5 GPmpcOr	- : 72	160- Sh	1046N0	1N1S02	104- : 6	- M1:	dDw
5 Gpmb cmb	: 272	- N6: 2	- 6: 1S	- 0S0N	- 041-	2M10	dDw
5 nesPT	: h72	- 066-	- 0666	- N4: :	- 0h2N	1M2S	dDw
5 nDDr p	6- 72	0- hS1	04S: 2	0264:	0- : - -	1MS:	dDw
&EwDpnwcmb	1: 671	: S622	: - : 10	: - : 0:	: 2: 02	- M21	dDw
&EwDpnwcmb	1: 672	21: 4N	22122	216N4	210N:	1M1N	dDw
Fpecmb	16471	416h1	44- 16	421N4	420- 1	- M20	dDw
Fpecmb	16472	10S0N	10S14	16NhN	16hh0	SM4	dDw
HsonPCcmb	16S71	466N2	4hS41	4hS04	4N266	2MM4	dDw
HsonPCcmb	16S72	2- 160	22N1-	224h2	22N24	1M4N	dDw
y nPb cmb	16: 71	1S- 16S06	1S- 2NSN6	h26- 020	hh6h2h6	6M1-	dDw
y nPb cmb	16: 72	42SS: : :	41- 1h14	4Sh6N0-	414- 114	1M20	dDw
tCocmb	11: 71	062h122	0- 001: S	66- 4N: 1	021- 0SN	0M10	dDw
tCocmb	11: 72	h: NS- 1	h: 6h2:	h: : : 14	h: 6N24	SM1-	dDw
tpnC	: 472	2: 4S40-	261: - 0-	2: 206S-	2: 6114h	1MM:	dDw
tpnC	: 672	46Nh2: - 0	40014S06	4: 66: 0- h	460: 04: 1	2M2S	dDw
tpnC	: 072	112S6N-	111: SN6	11S- S40	1112h- h	SMM1	dDw
KpEDTnC	N- 71	- - S	- 4h	- 12	- - S	: M4h	dDw
Lr so	2S671	- Sh: 21	- 2S: 2S	- 2S- 11	- 160N4	1MMh	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	2: 4211	2624N-	26- - h0	26SS- S	1M1:	dDw
Lr so	2SN71	12S4010	1242: 2:	12: 6: - 0	12- 4: h-	2M10	dDw
LdTGmb	671	204SN4N	2: 0SS6-	24N: 416	2: hN00:	: M81	dDw
9 sgOr wcmb	2472	1N6- 2- 2	1N0- 461	1NN00S0	1N04NSS	SM06	dDw
9 sOgs Or wr	: : 72	: - N012	: 4SS01	: - SN- :	: - 6: - h	SM1-	dDw
9 nPEeor Omb	h471	11014	122Nh	12122	12S42	2M46	dDw
9 nPEeor Omb	h: 71	: - 4-	: 226	: 6- :	: 4S1	- M1S	dDw
9 nPEeor Omb	h671	6h6S	0: : 2	04S2	0- S:	4M21	dDw
9 nPEeor Omb	h071	- - 42	- - : S	- 210	- - S-	2M26	dDw
9 nPEeor Omb	hN71	N- 6h	N4N6	h- 12	N022	: MNh	dDw
u r noEb omb	1: S71	N4NS6	N- h42	N41S2	N42N-	SM1:	dDw
u r noEb omb	1: S72	26- 2-	26166	261h6	2622N	SM12	dDw
u dkr P	6S72	2S- : 1	2S: h2	2S1- N	2S- 6S	1M12	dDw
8 GhwDGhpmw	- 172	4: 6N	40: 1	4: : h	4626	2M4	dDw
8 nTswwcmb	- h72	4N2h- :	406442	4NS1S0	40hN2N	SM0N	dDw
. Ghocmb	1S- 71	00112: 0	0- 600h:	66: 66S2	024: 21N	0M42	dDw
. Ghocmb	1S- 72	- 21: 10N	- ShN4- 4	- 1- 46N2	- 14h4- 1	1M1S	dDw
I ds Coomb	4: 71	: S2: N44	4062: : -	446: 1N:	40: 11h4	: M1S	dDw
I ds Coomb	4: 72	1461: 6	144: 6S	144h: S	14: 222	SM10	dDw
I r PP Comb	N271	6h	N4	11h	hS	2NM0	dDw
I r PP Comb	0072	60	NS	11S	N6	2: M14	dDw
I r PP Comb	0N72	h:	Nh	6-	N2	2SM06	dDw
I dPdnC	2N71	14- 6- NN2	146- 640S	14N2NhSS	146Sh0: 1	1M0S	dDw
I dPr p	1S071	262:	1h60	2S10	22S-	16M04	dDw
I dPr p	1Sh71	22- 4	21: S	24SS	2261	: M0-	dDw
I nocmb	2- 72	11440-	1106- 1	1164Nh	1161hN	1M1N	dDw
I TpnCTcmb	N671	6- 0N2N	6: 42: 4	6444: -	64: : 12	1M2N	dDw
I TpnCTcmb	NN71	: 01N: N6	: N2SS0S	: 022612	: 0: - 0: 6	1M8S	dDw
I mPmp	- 471	2h60SN	- SS: - N	- SS000	2hh- 41	SM06	dDw
Ar pecmb	1: h71	1SN6h- 62	1S4N4hhS	h62h1h2	1S- 20N4N	6M1:	dDw
Ar pecmb	1: h72	41616S-	41- N- 0-	4SS- 42:	41S11- -	2M8N	dDw
AGs PPcmb	2S- 71	2: h2	2hSS	2: h2	26h:	6M01	dDw
AGs PPcmb	2S: 71	6N6h	6644	60h4	606h	1M0h	dDw
AdC	11N71	606S	6h00	01h4	6h00	- M11	dDw
AdS Comb	4071	N1N4-	N4h6S	N2401	N- Sh1	1M1N	dDw
RpsComb	2- N71	: 2- 0:	: 1N4S	: - 1h:	: 240S	1M1S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPnTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP u sb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	6- 0S0	6- 044	6- 14N	6- : - -	SM-	dDw
YTTr pe omb	10271	1- SS0	120hS	1- : h1	1- 12h	- M16	dDw
YTTr pe omb	10272	6204	6- h1	61S0	62: 0	2M2N	dDw
YTTr pe omb	10671	h: N0	h012	h1h:	h4hN	2MM4	dDw
YTTr pe omb	10672	14664	14Nh2	14: 6h	140SN	1M1-	dDw
YTTpomb	Nh71	146N4- 4S	1- 4S: 1: 0	12N6hhS:	1- 6: - 1- 4	6MM-	dDw
YTTpomb	Nh72	1- hh424	1- - N404	1- 21420	1- : - 1SN	- MS-	dDw
ZdCd	6672	46416	46: 2h	44hS4	4: h: S	1MM0	dDw
ZqpdnComb	hS71	2- 0: 4	2: 666	2: 1: 0	24N: h	- MMN	dDw
ZqpdnComb	h171	: 46S	: 026	: N: 1	: 60h	- M12	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdPP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6h02N:	6N: h6S	6NS0Sh	6N0hN:	1M4-	dDw
qCTb nCE	12171	2S2:	2- SS	210:	2160	6M6	dDw
qpwr Ccd	0: 72	- SS:	- 112	- S66	- S61	1M0:	dDw
Bspcmb	1- : 71	4Sh214	4ShNh-	- h062h	4S: : 0h	1M0S	dDw
Bspcmb	1- 071	02- 02N	02214-	02: hh0	02- h: 6	SM20	dDw
Br pEPPmb	h71	1: 2:	16- S	14h4	1: 4h	4M61	dDw
Bcwb mTG	2Sh71	6h10S02	62h1- - 2	662S1: 1	66Sh: 1N	4M04	dDw
Bcwb mTG	2Sh72	- 242N0N	- 2NSNN2	- 2S111S	- 24162-	1M4-	dDw
Bpmb cCr	N171	6N1N	0SS2	01N:	0SS2	2M62	dDw
5 sob cmb	1SN71	11-	121	1SS	111	hM44	dDw
5 sob cmb	1S671	41Sh	- h: h	44: h	4106	6M1:	dDw
5 sob cmb	11171	1: - 6	14- 2	1422	146-	4M-	dDw
5 sPlcmb	4- 71	62h- NS	6- 420h	6- 2664	6- 21S0	SMh	dDw
5 sPlcmb	4471	1S4- S4Sh	1SNS01- 0	1S- NNNS0	1S: 4211N	2M1h	dDw
5 spenC	1271	- : 62140	- 6S2- N0	- 6hS1h0	- 61N244	1MM1	dDw
5 spenC	1272	441SS	4: 01-	4- 1N1	44- - 1	2MMh	dDw
5 GPmpcCr	- : 71	1h: h- S- 1	2- : : 6: 6:	2: hhN0h:	2- S4h464	14M3-	dDw
5 GPmpcCr	- : 72	2S2hS6	2SNh00	21S044	2S0: 4-	1M1N	dDw
5 Gpmb cmb	: 272	- 10h:	- 21NS	- 210S	- 2S4N	SM0N	dDw
5 nesPT	: h72	- : N: 2	- 6Nh1	- : h2h	- 6224	1M0S	dDw
5 nDDr p	6- 72	6- 2: 0	6- - 44	6- 6Sh	6- 4S-	SM2h	dDw
&EwDpnwcmb	1: 671	: - 0Sh	: 4002	: 1hN:	: - 4Nh	2M0-	dDw
&EwDpnwcmb	1: 672	22Sh:	216: 1	21: : 1	21066	1M-	dDw
Fpecmb	16471	4S22S	4S20N	- h6- :	4SS4:	SMMh	dDw
Fpecmb	16472	161S0	1: h46	1: 0S-	1: h1h	1M2N	dDw
HsonPCcmb	16S71	4622-	461: 6	4: 44:	4: h41	SM14	dDw
HsonPCcmb	16S72	22- Sh	216h4	21: 24	21N42	1MMh	dDw
y nPb cmb	16: 71	1SSh- 0: h	Nh: N6h4	h441S42	h4h0N- 2	6M3S	dDw
y nPb cmb	16: 72	4142NN6	42: : N4S	42S66: S	42S10h2	1M:	dDw
tCocmb	11: 71	01006S2	6464NS4	6N021Sh	6N- N102	: M4-	dDw
tCocmb	11: 72	h: 0h6-	h6: S6h	h64: 14	h62: 16	SM41	dDw
tpnC	: 472	2- : : 26:	2- 6: 222	2- - N441	2- : 2h06	SMN	dDw
tpnC	: 672	424ShSh4	42- NS: 2h	42201466	42- : - 6h6	SM10	dDw
tpnC	: 072	1S11462	1S246NS	hh: : S6	1S1S: 4h	1M4:	dDw
KpEDTnC	N- 71	- S2	2hS	- 24	- S:	: Mh	dDw
Lr so	2S671	206S01	202NNS	20N: : 4	20: N- :	1M3-	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	22hh- :	2- 102h	2- 22- 1	2- 12hN	SM12	dDw
Lr so	2SN71	1SNS1Nh	1ShShh4	1S0S60h	1SNS621	SM14	dDw
LdTGmb	671	2: : : 010	22hh- N0	2: 20411	246SN- N	: M01	dDw
9 sgOr wcmb	2472	14: 1: N6	14- S2h4	14S41- N	142N60-	1M06	dDw
9 sOgsOr wr	: : 72	4N: 02S	4N: S- 4	4N2: 60	4N444S	SM14	dDw
9 nPEeor Cmb	h471	1S62h	1ShNN	11S21	1SNNS	2M3S	dDw
9 nPEeor Cmb	h: 71	: SS1	: 2Sh	: 16N	: 126	2M1:	dDw
9 nPEeor Cmb	h671	6N6S	6NN:	6N6h	6N01	SM1h	dDw
9 nPEeor Cmb	h071	- 110	- - h2	- 1Sh	- 2S6	: M3-	dDw
9 nPEeor Cmb	hN71	00N6	N1- 6	0h- 6	0h: 2	2M21	dDw
u r noEb cmb	1: S71	Nh0h2	hSS4N	hS: : 1	hS1- 1	SM4-	dDw
u r noEb cmb	1: S72	2N226	20261	20N- 6	20004	1M0:	dDw
u cdkr P	6S72	2S- - 1	1h: 60	1h644	1hN40	2M12	dDw
8 GhwDGhpmw	- 172	- 460	- 110	- 2N4	- 2Nh	: M12	dDw
8 nTswwcmb	- h72	- 0: NS6	- 60: SS	- 0- S22	- 021Sh	1M14	dDw
. Ghocmb	1S- 71	01- - SN0	6: 2h: SS	6h: 2- 2N	6N016- N	4M11	dDw
. Ghocmb	1S- 72	- 21N066	- 21166S	- 22: h2:	- 21N0N-	SM22	dDw
l ds Cocmb	4: 71	46: 0Nh6	42S: N1S	4: h142N	44N: S44	: M44	dDw
l ds Cocmb	4: 72	14: NSh	14000N	140h44	140100	SMM1	dDw
l r PP Cmb	N271	1S6	11:	11h	11-	: M06	dDw
l r PP Cmb	0072	hS	12-	1S-	1S6	1: M1S	dDw
l r PP Cmb	0N72	N0	60	04	06	1- M:	dDw
l dPdnC	2N71	1- N1- h6-	1- N12SS:	146hhh- 1	141SN6- -	- M0-	dDw
l dPr p	1S071	22: h	22: S	2S2:	210N	6M3N	dDw
l dPr p	1Sh71	22N4	22- 4	21SS	22S6	4M1S	dDw
l nocmb	2- 72	1122- S	111: : h	11Sh12	111: 60	SMlh	dDw
l TpnCTcmb	N671	: 20hS2	: 2SN: h	: 1N06S	: 22: S0	SM12	dDw
l TpnCTcmb	NN71	46N462-	4024: 6S	401011:	40SN066	SM4:	dDw
l mPPmp	- 471	2h4S14	2h: S0h	2h: 66-	2h4h1N	SM2N	dDw
Ar pecmb	1: h71	1S42S160	hS060N0	hNSS14:	h06: 6hh	6MMN	dDw
Ar pecmb	1: h72	4Sh1011	412: h20	4S6N1: 2	4Sh: 26-	SM01	dDw
AGsPPcmb	2S- 71	212:	2S- 4	2- 0:	210N	NM12	dDw
AGsPPcmb	2S: 71	: : 1S	: 2N:	: 4h-	: 42h	2M11	dDw
AdC	11N71	: 0- :	: 0: 1	0- - h	620:	14M0h	dDw
AdS Cmb	4071	64hS0	6- 042	6- - hh	64S16	1M2-	dDw
RpsCmb	2- N71	420N1	4- 2- 2	42NhS	42h6N	SM1:	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP u sb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	: N: 26	6SN: :	: h4- -	: h6S:	1M10	dDw
YTTr pe omb	10271	1Sh6-	112NN	1S46-	1ShS:	- MM1	dDw
YTTr pe omb	10272	: 10h	: 212	: SS0	: 1- -	2M1:	dDw
YTTr pe omb	10671	N21h	0N2N	N2: -	N1SS	2MM2	dDw
YTTr pe omb	10672	1- 004	14S- S	1411h	1- h04	1M2N	dDw
YTTpomb	Nh71	1- : 00106	12- 01SN4	1- S6N- S6	1- SS: : 22	4M66	dDw
YTTpomb	Nh72	1- 20S1S	1- - 6N2S	14S61: S	1- : 666S	- M1N	dDw
ZdCd	6672	- 0N64	- 6- 1-	- 0Nh4	- 0- : 0	2M42	dDw
ZqpdnComb	hS71	210: h	21N: h	2S: 4h	21- Nh	- M41	dDw
ZqpdnComb	h171	4N6N	4hS1	44: 1	404S	: M2h	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdPP usb r J	S66q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	0h6: : :	0NNS: h	0N2h2h	0Nh1N1	SMM0	dDw
qCTb nCE	12171	10SS	1h: S	1NSS	1N10	6M1-	dDw
qpwr Ccd	0: 72	- S14	2hSh	2h20	2h: S	1M1S	dDw
Bspcmb	1- : 71	0S: : : :	01ShNh	01hh4:	01216-	1MS2	dDw
Bspcmb	1- 071	12011S1	120406:	120112:	1202- - S	SM10	dDw
Br pEPPcmb	h71	02N1	0SSS	042N	02- 6	- MS1	dDw
Bcwb mTG	2Sh71	60- 6NhS	6N11066	0S4SSN6	6N62h14	2M1S	dDw
Bcwb mTG	2Sh72	- 1221S6	- - 401: 1	- 2Nh- : 0	- 2: 2N02	- M1h	dDw
Bpmb cCr	N171	h10N	h: 62	1S4- 0	h026	6M04	dDw
5 sob cmb	1SN71	2S4	10:	2- N	2S6	1: M22	dDw
5 sob cmb	1S671	: 1- 4	: 46S	: S: 1	: 21:	4M14	dDw
5 sob cmb	11171	22N0	2- 6h	2414	2- : 0	2M0-	dDw
5 sPlcmb	4- 71	22- S: 6	22NSh-	22N- h6	226: 1:	1M12	dDw
5 sPlcmb	4471	- Nh1Nh:	- 0h- S2-	- h26NN2	- N0S6SS	1M0h	dDw
5 spenC	1271	- hN6S0-	42S: - 4h	424NN1N	4146040	- M1S	dDw
5 spenC	1272	: 21: 2	: 2S06	: 204:	: 2- 24	SM0S	dDw
5 GPmpcCr	- : 71	210h- SN0	2: 6h0- N0	2N1h: hS2	2: 22N0h2	12M0h	dDw
5 GPmpcCr	- : 72	2214: S	22- 02:	220- : 6	224100	1M-	dDw
5 Gpmb cmb	: 272	244- 4	2400:	240S:	246- N	SM0-	dDw
5 nesPT	: h72	- 02h6	- 06: S	- 0NS-	- 0: N-	SM0h	dDw
5 nDDr p	6- 72	6: - 0S	6424N	6- h- 0	64: 1N	1M10	dDw
&EwDpnwcmb	1: 671	- 0N4S:	- N00N1	- N420:	- N- 4N0	1M24	dDw
&EwDpnwcmb	1: 672	161- - 6	1: 0: hh	1: h1: 4	1: h- 6-	1M1N	dDw
Fpecmb	16471	- ShN04	- 12644	- 21: hh	- 140S6	1M1:	dDw
Fpecmb	16472	12h: hN	12N: 46	12: 046	120h6-	1M16	dDw
HsonPCcmb	16S71	- 2: 4- 6	- 2SN06	- 2: - 64	- 2- Nh2	SMM1	dDw
HsonPCcmb	16S72	1: 42NS	1: 424h	1: SNNh	1: - 1- h	1M20	dDw
y nPb cmb	16: 71	h: N6SNN	hh64N2h	1S- N26: 0	hh00N: N	- M1h	dDw
y nPb cmb	16: 72	4S: - - 0-	42: 0244	4- - 4- N1	4214hhh	- M14	dDw
tCocmb	11: 71	0Sh- 44:	011- 6N4	020N: SN	0161N0h	1M12	dDw
tCocmb	11: 72	h- N- 06	h6006h	h0N4: 1	h61: - 2	2M16	dDw
tpnC	: 472	4S- 6410	41: 416h	4S12- Sh	4S606- 2	1MM0	dDw
tpnC	: 672	0- h4- 4: 0	0- - N6: S4	0- - h- S- N	0- : 04- - -	SM1-	dDw
tpnC	: 072	1h2NNS0	1N66111	1Nh620N	1Nh0S6:	1M0:	dDw
KpEDTnC	N- 71	6N1	0S1	6h:	6h2	1M1N	dDw
Lr so	2S671	424- 0h	422N0h	42NN6:	42: - 0:	SM0-	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU10	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP usb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- 4NhSh	- : 1: - 2	- : 12h:	- : S: 0h	SM41	dDw
Lr so	2SN71	10S16- h	16h211h	10241hh	10S: hN6	SM10	dDw
LdTGmb	671	24hS: NS	24NShN2	2610N4N	2: 2hNS-	- MS2	dDw
9 sgOr wcmb	2472	6042SN	60- h40	66Nh2N	602- 61	SM44	dDw
9 sOgsOr wr	: : 72	20- h- 40	2064h02	2021: 42	2041h: 4	SMMS	dDw
9 nPEeor Omb	h471	1- 2: 0	1- 66:	1- N- 2	1- : N:	2M1N	dDw
9 nPEeor Omb	h: 71	h4N0	1SS46	h: 62	h6hN	- M1-	dDw
9 nPEeor Omb	h671	11- 40	11064	116h0	116S2	1M1-	dDw
9 nPEeor Omb	h071	: h- :	61h-	6S1N	6S4h	2M1N	dDw
9 nPEeor Omb	hN71	1: : S1	14h: S	14060	1: S02	2M-	dDw
u r noEb cmb	1: S71	601: NN	6N- - 00	6NhS6h	6N1- 4:	1M1	dDw
u r noEb cmb	1: S72	21S: 1:	2S01N-	2S4: SN	2S04S2	1M4:	dDw
ucdkr P	6S72	10011	104S1	10- 61	104h1	1M1S	dDw
8 GhwDGhpmw	- 172	- 1- 4	- - SS	- 242	- 22:	2M62	dDw
8 nTswwcmb	- h72	0- 66h:	040: 6h	0- 1SSS	0- N421	1M14	dDw
. Ghocmb	1S- 71	6N40614	0S: 6NNN	02: N2: 4	0S: 42: 2	2M11	dDw
. Ghocmb	1S- 72	- S0N2- 6	- 1h- N: h	- 20- Sh:	- 1N10- S	- MSN	dDw
I dsCocmb	4: 71	46: N64S	46: Sh00	40N116-	46h6h20	1M16	dDw
I dsCocmb	4: 72	1420- 1	14010-	1: 1N44	14024h	- MSh	dDw
I r P Ccmb	N271	412	41S	46:	42h	0M24	dDw
I r P Ccmb	0072	02S	01-	6hS	0SN	2M-	dDw
I r P Ccmb	0N72	4: 1	: 2S	401	4N1	0Mh	dDw
I dPdnC	2N71	14: S410:	1: 42: 6- 4	14hN44- -	14h01414	- MSN	dDw
I dPr p	1S071	2210	22: h	2S42	2102	: M2h	dDw
I dPr p	1Sh71	2110	2: 60	2S: h	2240	12MN	dDw
I nocmb	2- 72	4461h	44Sh2	4- : N2	44ShN	1M1N	dDw
I TpnCTcmb	N671	160- 6S	10- : : 2	104112	10160:	2M1N	dDw
I TpnCTcmb	NN71	1: N: S1-	1: 04: - N	1: 0: 0SS	1: 0N410	SM16	dDw
I mPmp	- 471	2NN266	2h1S0-	2N4- 16	2N0NN:	1M1N	dDw
Ar pecmb	1: h71	hNNh: 04	1S1h4N: 2	1S244S46	1S1Sh4h1	1M1S	dDw
Ar pecmb	1: h72	- h0- 60h	42- 402:	4210462	4141h: :	- M12	dDw
AGsPPcmb	2S- 71	- - 60	- - 60	- - - 4	- - : 6	SM10	dDw
AGsPPcmb	2S: 71	N- : -	0hh4	N: - 6	N2h:	- M12	dDw
AdC	11N71	16- 00	102- 0	16: 20	16014	2M0:	dDw
AdSCcmb	4071	4616h2	4NS262	40h402	40- NSh	2M12	dDw
RpsCcmb	2- N71	1S2- 2N	1S- N0:	1S62N:	1S416-	1M11	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP u sb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	404- :	4NS4S	46120	402S1	2N30	dDw
YTTr pe omb	10271	h: 2N:	h- - 46	hNh6-	h: N6:	2M1N	dDw
YTTr pe omb	10272	40S61	461S2	44N21	4: hh:	2M14	dDw
YTTr pe omb	10671	622: 6	: hh0h	61- 4-	611h-	1MN0	dDw
YTTr pe omb	10672	- h0S4	4S12N	4S: 2-	4S11N	1N32	dDw
YTTpomb	Nh71	16Nh: Shh	1022N: h:	1006N- S-	102h0- - 2	2M:	dDw
YTTpomb	Nh72	1046112	10hSN20	10h- 2- 2	1006024	1M1h	dDw
ZdCd	6672	h1S: 4	h1: h0	h2SS-	h1: : 1	SM12	dDw
ZqpdnComb	hS71	2224-	22h: -	2- h: 4	2- S: S	- N0-	dDw
ZqpdnComb	h171	: S26	4N4-	: 21N	: S2h	- N0-	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdPP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N- - 0h:	N16h: 0	N1: - : :	N22S- :	1N24	dDw
qCTb nCE	12171	10SS	160:	1NSS	102:	- NN-	dDw
qpwr Ccd	0: 72	- 1: S	- SNh	- Sh0	- 112	1NS0	dDw
Bspcmb	1- : 71	0: : 02N	0- hhh:	0: h42-	0: 1016	1M0	dDw
Bspcmb	1- 071	1- - 0h- N	1- - - 22N	1- 42NNh	1- - NS1N	SM6	dDw
Br pEPPmb	h71	0- 4:	0411	0: : 2	04- 6	1M-	dDw
Bcwb mTG	2Sh71	6641NN4	6h4- 12:	6h126: :	6N- 2: : :	2M-	dDw
Bcwb mTG	2Sh72	- - S6460	- - 4h26S	- 2212: :	- 2h2- 20	1NN	dDw
Bpmb cOr	N171	1S: 01	11- 6-	11h- S	112NN	6NS:	dDw
5 sob cmb	1SN71	160	10h	101	102	- N0S	dDw
5 sob cmb	1S671	: - S1	: 11N	: - h-	: 201	2N06	dDw
5 sob cmb	11171	2: h-	20S0	26hh	2666	2M4S	dDw
5 sPlcmb	4- 71	2- 4h0N	2- : NS1	2- 6646	2- : NSN	SM:	dDw
5 sPlcmb	4471	- hh40SS	- h1N2Sh	41Sh0S4	4SS0: - N	2M41	dDw
5 spenC	1271	442604N	4: 00: 10	462S1N1	4: 414N2	2N24	dDw
5 spenC	1272	: : 04N	: 40S2	: 44N:	: 4h0N	1N2-	dDw
5 GPmpcOr	- : 71	2- : 110N6	201- 6606	2h222161	2662- : 41	1SNN:	dDw
5 GPmpcOr	- : 72	22- h0h	22NN46	2- 6: - -	22h0N6	2N0:	dDw
5 Gpmb cmb	: 272	2: 6N6	261S1	2: 22h	2: 602	1N0S	dDw
5 nesPT	: h72	- NSh1	- N241	- 04h-	- 0h42	1NS4	dDw
5 nDDr p	6- 72	64h- :	6- N1-	64SN4	64200	SM1	dDw
&EwDpnwcmb	1: 671	- N16- -	- N1h41	- NhS- S	- N42S1	1NSh	dDw
&EwDpnwcmb	1: 672	1: h- 1N	1: h6- 6	1: h6N1	1: h: 4:	SM2	dDw
Fpecmb	16471	- 1S- 6N	- 221: 2	- 22421	- 1N- 14	2M6	dDw
Fpecmb	16472	126hS2	1264hh	126N2:	126042	SM0	dDw
HsonPCcmb	16S71	- 2: 666	- 2- S- 1	- 24: 2:	- 244S0	SM1	dDw
HsonPCcmb	16S72	1: - N61	1: 4hh:	1: 1: S6	1: - 4: 4	1M6	dDw
y nPb cmb	16: 71	h6661Sh	hh4- hS1	1SS40: 62	hNN: N: 0	2NSS	dDw
y nPb cmb	16: 72	4- N166h	4- 2: 4h0	42S6: - h	4- S4: 6N	2NSN	dDw
tCocmb	11: 71	6hNN4SS	012: 6h-	0- N200h	016: 624	2N0h	dDw
tCocmb	11: 72	hN: : S2	hN2N- :	hN44: 6	hN426:	SM4	dDw
tpnC	: 472	421hh6S	42NS: N1	4- 266hh	420: 040	1N2:	dDw
tpnC	: 672	00: 660N:	0N1: SSh6	00- 0N1: 0	006hN- 46	SM2	dDw
tpnC	: 072	2S26: 6:	2S22: hh	2S14011	2S212h2	SMS	dDw
KpEDTnC	N- 71	602	6: 2	014	6NS	4N0S	dDw
Lr so	2S671	4- 01N-	4: - N- h	44- : S-	444N42	1NNh	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1N	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	- 62S- N	- 6: 0S6	- 6: - 24	- 64- : 6	SM1:	dDw
Lr so	2SN71	104- h- h	1004104	10062N6	1064NSS	1N8-	dDw
LdTGmb	671	2: S: 002	26S- : 0:	2: 442SN	2: : 11N:	1M1-	dDw
9 sgOr wcmb	2472	66h11N	66: 002	66- Nh-	666261	SM4S	dDw
9 sOgsOr wr	: : 72	2N1- 04-	2N62: - S	2N41N- -	2N- h- 6h	SMN6	dDw
9 nPEeor Omb	h471	10h16	1- 46:	144N-	1: 2NN	1: N2:	dDw
9 nPEeor Omb	h: 71	hN62	hN62	1S212	hh0h	2N8-	dDw
9 nPEeor Omb	h671	116- N	12Sh0	12240	11hh4	2M04	dDw
9 nPEeor Omb	h071	6- 20	616S	: h6N	61: 2	2M12	dDw
9 nPEeor Omb	hN71	1: hS1	1: 4h2	1: h6N	1: 0N0	1M-	dDw
u r noEb cmb	1: S71	601006	6Nh- 0h	6N2: : :	6N12- 0	1M1S	dDw
u r noEb cmb	1: S72	2SNhSh	2S: N22	2S6h- 2	2S0221	SM0:	dDw
u cdkr P	6S72	10h6N	1NS11	10NSN	10h2h	SM0S	dDw
8 GhwDGhpmw	- 172	- 2N4	2N42	- 1h2	- 1S6	0M1	dDw
8 nTswwcmb	- h72	6h: 01-	6h1h- S	6h21h0	6h- 2NS	SM1S	dDw
. Ghocmb	1S- 71	6NN46S1	021: - h0	024hS6-	0116- : -	2MN-	dDw
. Ghocmb	1S- 72	- - - 11: 1	- - 1h260	- 21N4- -	- 2Nh610	1MN	dDw
I dsCocmb	4: 71	40SN044	4661h1S	4002- 6-	4014- - h	1M1N	dDw
I dsCocmb	4: 72	1: 242S	1: 11NS	1: 1440	1: 16N2	SM4-	dDw
I r P Comb	N271	444	: 62	- h0	46N	1NM1h	dDw
I r P Comb	0072	6NS	6: S	60-	66N	2M6	dDw
I r P Comb	0N72	4: 1	406	461	46-	2M02	dDw
I dPdnC	2N71	164- 1hS:	1601hSS2	16N: h- 1:	1660SS04	1M1	dDw
I dPr p	1S071	2: : h	24: h	242:	24N1	2MNS	dDw
I dPr p	1Sh71	240:	2- 60	202:	2: 2-	0M2h	dDw
I nocmb	2- 72	6: S- 0	646S2	64216	6461N	SM04	dDw
I TpnCTcmb	N671	1N: - 06	1NN- 04	1N62- 1	1N666S	SMN-	dDw
I TpnCTcmb	NN71	10SSS60	16N- 2S2	1606- 04	16N6: 4N	SM02	dDw
I mPmp	- 471	20h012	2060: h	20- N- :	20606h	1N86	dDw
Ar pecmb	1: h71	1SS16S12	1SS: 4- hN	1S1- 4hh0	1SS6N46h	SM0S	dDw
Ar pecmb	1: h72	424162-	42- : S10	4101421	4216S2S	SM12	dDw
AGs PBmb	2S- 71	- 6: 1	- h: 1	- hh2	- N6:	4MN-	dDw
AGs PBmb	2S: 71	h1N0	NN0N	hSN0	hS: 1	1M04	dDw
AdC	11N71	2: : h1	24NhS	26- 6N	2: 616	2MNh	dDw
AdS Comb	4071	: Sh420	: S- 01-	: S01NN	: S6006	SM10	dDw
RpsComb	2- N71	1S4h66	1S6: h:	1S: 62S	1S: 020	SM0N	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP u sb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	4N6: h	4h1: 4	406S2	4N402	1M04	dDw
YTTr pe omb	10271	h04h2	h6h40	h: 6: -	h66h0	SM1N	dDw
YTTr pe omb	10272	40: : N	402SS	464S4	40S: 4	1M26	dDw
YTTr pe omb	10671	62S22	61661	641hS	62624	2M1N	dDw
YTTr pe omb	10672	41: 16	- h: S4	41621	4SNNS	2M12	dDw
YTTpomb	Nh71	16h1S0: 6	10- NSh6S	10- 06- 22	1022260h	1M10	dDw
YTTpomb	Nh72	1N41hN2	1NSh264	10N4: NN	1N11h44	1M1h	dDw
ZdCd	6672	hNh- :	h61h4	hNS1h	h0016	1M4-	dDw
ZqpdnComb	hS71	21060	221N:	22N11	222: 4	2M16	dDw
ZqpdnComb	h171	4NSh	: S06	: S4-	4h06	2M12	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCmb	2072	661N6h	6 N10	6 - N44	6 0106	SM04	dDw
qCTb nCE	12171	- h26	- N h	- 610	- NS1	4M20	dDw
qpwr Ccl	0 72	hhh	hS2	h10	h- h	SMMN	dDw
Bspcmb	1- 71	126N	Sh4S1	112-	111S0	SM12	dDw
Bspcmb	1- 071	NN 020	hS1NSN	Nhh42S	Nh 6 2	SM10	dDw
Br pEPmb	h71	20h0	20S	26 6	202S	2M04	dDw
Bcwb mTG	2Sh71	6h2h006	0104NS0	0Sh- 6h0	0S66Sh-	1M00	dDw
Bcwb mTG	2Sh72	- 2 1hN	- 262040	- 2SN24	- 24Shh2	SMMh	dDw
Bpmb oCr	N171	02N	0 6h	00- 6	0 - S	- MS2	dDw
5 sob cmb	1SN71	20	20h	201	20	1M1	dDw
5 sob cmb	1S671	4626	4242	42 1	4- 0-	MS1	dDw
5 sob cmb	11171	- 162	- 112	- - N2	- 21h	4M	dDw
5 sPlcmb	4- 71	40N26h	4N1 64	4N- 14S	4NShh1	SM12	dDw
5 sPlcmb	4471	NShS04S	NShShh-	N104422	N11N01N	SMh	dDw
5 spenC	1271	422 - N	011- 0S	N2hN0S	6 4 h-	- M01	dDw
5 spenC	1272	6h 1	6h- 64	6hS2h	6h- S-	SM16	dDw
5 GPmpcOr	- 71	2- 4hN- 1N	201h0h11	2h2 h20S	266 1N- -	1SM1	dDw
5 GPmpcOr	- 72	22 N41	220S60	2- 1h0N	22N2h	1M12	dDw
5 Gpmb cmb	272	4S6 N	- Nh0-	- h0N	- hNS	2M12	dDw
5 nesPT	h72	61010	61- 1	6SS0S	61S- 4	1M41	dDw
5 nDDr p	6- 72	2Sh- 12	21Sh 1	2S66h1	2SNhN	1MS-	dDw
&EwDpnwcmb	1 671	6h0 S	011hN	01S4N	0S66	1M1-	dDw
&EwDpnwcmb	1 672	2N4 S	2h- 22	2h2hh	2hS24	1M01	dDw
Fpecmb	16471	h 2	NNhN	hh 2	h4 N	SMMh	dDw
Fpecmb	16472	2- hN	2- h-	241N2	24S- 4	SM4	dDw
HsonPCcmb	16S71	6- hNN	64S1-	6444N	641 S	SM4S	dDw
HsonPCcmb	16S72	2h S6	2h Sh	- S012	2hhSh	2M12	dDw
y nPb cmb	16 71	1S1S4- h	1SS1hN 2	1SS- 0N0	1SS - - 44	SM4	dDw
y nPb cmb	16 72	41N 1N6	414- 62	41- NN2-	41 N0N	SM01	dDw
tCocmb	11 71	0 S2N 2	0- hS h6	0- 21h2-	04S 124	1M4-	dDw
tCocmb	11 72	h N240	h- NNhS	h - 4h0	h S211	1MS6	dDw
tpnC	472	- hN110	- N44 66	- N0- 2hh	- Nhh6NS	1MM	dDw
tpnC	672	01 S N	011N 01	6h- 0N01	0S6N- S 0	1M04	dDw
tpnC	072	1N40421	1N- 14- 4	1N1h0-	1N- 2N6-	SM06	dDw
KpEDTnC	N- 71	- 20	- -	- - 4	- - 2	1M21	dDw
Lr so	2S671	4- 4 -	66	N0- S	2 N-	1M46	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdPP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	462SSh	460h6	46- 441	464402	SM60	dDw
Lr so	2SN71	216S216	21h0NS0	21N- 6 -	21NS h	SMM0	dDw
LdTGmb	671	2 Nh6hN	262146N	264h004	262S- 1-	1M1	dDw
9 sgOr wcmb	2472	16 S6NN	1626 20	164N6S-	1641h- h	SMM2	dDw
9 sOgsOr wr	72	122h22S	11hNS16	12S24hN	12Shh11	1M1h	dDw
9 nPEeor Omb	h471	10144	106S-	10N0S	10 - h	2M8h	dDw
9 nPEeor Omb	h 71	1ShS	1S001	1S0NS	1SN1N	SM0h	dDw
9 nPEeor Omb	h671	126N1	1- 61	1- 6S0	1- - S1	4M84	dDw
9 nPEeor Omb	h071	601N	6N-	60 2	606N	SMMh	dDw
9 nPEeor Omb	hN71	104h	1020N	16N6h	10214	1MM	dDw
u r noEb cmb	1 S71	111- h1	11 62N	112hh0	11- - - h	1MMh	dDw
u r noEb cmb	1 S72	- 42 S	- - - N	- 4N12	- 414S	2M1	dDw
u cdkr P	6S72	- - h 4	- 41- 4	- - h44	- 4S11	SM1	dDw
8 GhwDGhpmw	- 172	0h20	0 S2	NS00	0N- 6	- MM1	dDw
8 nTswwcmb	- h72	N2N0S	0 0N6	h1S- 1	N- 22h	1M1	dDw
. Ghocmb	1S- 71	020 Sh6	02106S4	01016N-	0221461	SM02	dDw
. Ghocmb	1S- 72	- 16N S	- 1hh21	- 1NN01-	- 1N 4h-	SM4h	dDw
I dsCocmb	4 71	4N016 h	46N212S	4N1N- N-	40hS02S	2M84	dDw
I dsCocmb	4 72	14 N0h	14 2- 6	14 SS-	14 - 0-	SM1	dDw
I r PCcmb	N271	226	24S	2- h	2-	- M24	dDw
I r PCcmb	0072	10S	140	12-	140	1 M1	dDw
I r PCcmb	0N72	1S6	12-	116	11	0M4-	dDw
I dPdnC	2N71	140NN- N0	14h10- 66	1 S- 02Sh	14h14- 21	SMM-	dDw
I dPr p	1S071	4- N4	4 06	444-	4460	2M2S	dDw
I dPr p	1Sh71	41- 4	44N4	4- - 4	4- 10	4M80	dDw
I nocmb	2- 72	6h010	602h0	66S60	606h4	2M04	dDw
I TpmCTcmb	N671	2h1641	2Nh061	2h4S2N	2h1N1S	SM0-	dDw
I TpmCTcmb	NN71	2600NS-	261- 1N2	266h4- N	26 - 404	1M12	dDw
I mPPmp	- 471	- 1S4 1	- 102- 4	- 1- S0-	- 1- N6	1M8h	dDw
Ar pecmb	1 h71	1S64- hS-	1S1 0N44	1S- 40S 6	1S- N2h- 4	2M6	dDw
Ar pecmb	1 h72	4SN S- 2	4S - - -	4Sh14	4S0661-	SMS	dDw
AGsPPcmb	2S- 71	- S42	- S S	- S h	- S S	SM20	dDw
AGsPPcmb	2S 71	661S	0044	6hN	011-	NM12	dDw
AdC	11N71	h14	h4 4	h20N	h2h2	1M60	dDw
AdSCcmb	4071	h 1 0	h4646	h46 -	h4N1h	SM1	dDw
RpsCcmb	2- N71	61SN1	6- - S1	610N	62S 6	1MM-	dDw

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SU21	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:u sb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	172	NSN2-	NS4SN	NSS06	NS4- 6	SM40	dDw
YTTr pe omb	10271	1N6- S	1N664	1N0S	1N666	SM2S	dDw
YTTr pe omb	10272	h2 h	NhhN	h2S-	h1 -	1MS	dDw
YTTr pe omb	10671	1- - 04	1- 666	1- 1- 2	1- - hS	2M8S	dDw
YTTr pe omb	10672	166- N	16N60	16hh	16N- -	1M80	dDw
YTTpomb	Nh71	14- h41- 2	1- N112N-	14Sh2h21	14Shh446	2M80	dDw
YTTpomb	Nh72	14- hS N	14S2S6	142- SN	1421 44	1M1	dDw
ZdCd	6672	hh62N	hN N0	hh110	hh111	SM2	dDw
ZqpdnComb	hS71	- S406	2h04h	- S442	- S222	1M6	dDw
ZqpdnComb	h171	64h-	6- 6N	6N00	6 NS	4M8-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d8be q dpe	2072	4a00- 0	: S: - u-	: SS2: 6	: S112:	SR0u	Ol l
d. iqe C. E	12171	- 606	- u- 4	- 6- 4	- 01:	2Ru4	Ol l
dll p. qO	0: 72	6014	66a6	60a4	60- :	SR00	Ol l
Bwldpe	1- : 71	- : S426	- : 21a:	- 4: : 46	- 4a- ua	SRaa	Ol l
Bwldpe	1- 071	620a: :	61: 266	61: 6Su	61a61S	1R10	Ol l
BplE&pe	a71	2- 4:	2- 64	220:	2- 2u	2RS1	Ol l
Bdqe biG	2Sa71	66Saa6u	6a: Su4:	6ua: - 0u	6u1u0- S	2R6u	Ol l
Bdqe biG	2Sa72	- 201u- 4	- 2S1uau	- - 2211u	- 26: 2u-	1Ru:	Ol l
BlCe q p	u171	611u	66- :	616u	6- S0	4R.2	Ol l
9 wne dpe	1Su71	160	22:	260	21a	22Rua	Ol l
9 wne dpe	1S671	41u4	446u	4- u4	4- 4:	- R :	Ol l
9 wne dpe	11171	2: au	2u2-	26aS	20S-	4Rla	Ol l
9 w&Odpe	4- 71	: - u1: u	: 4Su0u	: - 26- :	: - 0224	SR0u	Ol l
9 w&Odpe	4471	aS2016S	a- S1661	ua2- 120	aSu- au-	2R1:	Ol l
9 wlr C.	1271	- 2aaaS6	- 41- 241	- - 2S- 1:	- - 444u0	1Ru1	Ol l
9 wlr C.	1272	4S- 64	4SS14	4S4ua	4S2ua	SR61	Ol l
9 G&Clq p	- : 71	226u: uu4	26a402Su	2u060- 2a	261- - 404	11Ra4	Ol l
9 G&Clq p	- : 72	210- 0-	22- S- 1	22: 2ua	221uau	1Ru4	Ol l
9 GlCe dpe	: 272	- 216-	- 10S:	- 2Saa	- 1aua	SR0u	Ol l
9 Cr w&	: a72	020- 1	02S6u	012- 0	02S12	1RS4	Ol l
9 Ct t pl	6- 72	1auu: 0	1a: 024	1a6u01	1a01: 1	SRuS	Ol l
TEl t lCl dpe	1: 671	60022	0S- 1S	660a-	6u20:	2R60	Ol l
TEl t lCl dpe	1: 672	2u166	20006	2u21S	2uS: 1	SRu:	Ol l
Ulr dpe	16471	: 0ua4	: 02- 2	: a: a2	: u2- a	2RSa	Ol l
Ulr dpe	16472	2- u0:	2- a02	2- 6: 4	2- u- 4	SR6u	Ol l
HwnC&q dpe	16S71	61u2u	: au26	61- : S	61SS1	1R01	Ol l
HwnC&q dpe	16S72	2aS4:	2a: 4-	2a12:	2a2- u	SRa1	Ol l
h C&e dpe	16: 71	a2: S: : a	a02a6u0	aaS4uu6	a62u- 00	- R.2	Ol l
h C&e dpe	16: 72	41414u2	41606a4	4- 1uS01	42SaSu2	2R26	Ol l
& ndpe	11: 71	60: 004u	6a6: - 6a	01210: 6	6a4u2a1	2R6-	Ol l
& ndpe	11: 72	a: 2: - 6	a: 466:	a6- u22	a: 0SSu	SR6-	Ol l
&C.	: 472	- aa1aSS	- u- : 1S:	- u: 6- 40	- ua44: 1	2R1u	Ol l
&C.	: 672	0S01- 1: 0	6a2uSS00	0SS- u: 1:	0SS1S: u-	1RS2	Ol l
&C.	: 072	1u62a00	1006402	1uS6u2a	1u1: 426	2R42	Ol l
KIEt iC.	u- 71	- 66	- - 0	- 10	- 4S	0R2S	Ol l
Lpwn	2S671	: 1uS- u	: 1au2u	: 10- 1u	: 1u- a:	SR2:	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Lpwn	2S071	42- 226	42a: u4	42a1a4	420- - :	SRu-	Ol l
Lpwn	2Su71	2S110Su	2S- 6122	2S2u10:	2S2: - - :	SR61	Ol l
LqiGdpe	671	2401104	2: 6S: aa	2: uS11S	2: - 02a4	2R2a	Ol l
y wg. pl dpe	2472	1216- 4:	12- 2110	12261Sa	1224u: 0	SR6:	Ol l
y w. gw. pl p	: : 72	16aSS6:	166a04u	160u66S	160a4a1	SR61	Ol l
y O&Er np. be	a471	2SS1:	2S016	2S: 04	2S4- :	1Ru1	Ol l
y O&Er np. be	a: 71	14u2:	1: 1Sa	140: u	14ua0	1R2:	Ol l
y O&Er np. be	a671	1uu1-	1u2: 4	1u66-	1u: 00	1R 6	Ol l
y O&Er np. be	a071	a- 2S	a: 0S	a62a	a: S6	1R02	Ol l
y O&Er np. be	au71	240- a	24614	242uS	24: 44	SRa0	Ol l
mpOnEe dpe	1: S71	11S40u	11Su6u	1S0: 2u	1Sa624	1R60	Ol l
mpOnEe dpe	1: S72	- - 4S:	- - : 0:	- 2040	- - 242	1R 2	Ol l
mqOkp8	6S72	- au1a	4S1u0	4S11-	4SS4S	SR4a	Ol l
NGOl t GOlbl	- 172	: 206	: : Sa	: 1: a	: - 1:	- R :	Ol l
NOiwl l dpe	- a72	- - 4- 12	- 216a1	- - SSau	- 2u0SS	1Ra:	Ol l
F GOndpe	1S- 71	64u0: : S	0S1S2- S	0S1: u0a	6u- 0uu6	4R44	Ol l
F GOndpe	1S- 72	- 21- 0S0	- 2S: 6S4	- 2- 210-	- 210161	SR42	Ol l
DOw. ndpe	4: 71	4- 4a6uS	46a: u- 2	4: 460: :	4: - S0: 6	- Ru-	Ol l
DOw. ndpe	4: 72	146: - :	14a- 0u	140- 0u	140064	SRaa	Ol l
Dp&p. dpe	u271	2: 6	214	2: 0	242	1SR20	Ol l
Dp&p. dpe	0072	12-	14S	1: 0	14S	11RaS	Ol l
Dp&p. dpe	0u72	1S1	111	1S-	1S:	: RS4	Ol l
Dq&OC.	2u71	1Sa01616	11- : 14a-	1Sau0Su4	111S- - au	1Ra4	Ol l
Dq&vpl	1S071	: 126	40u4	: S- 4	4au2	- R :	Ol l
Dq&vpl	1Sa71	4uS1	4a06	4a: a	4a12	1Ra0	Ol l
DOndpe	2- 72	06a4:	0u062	0u126	00a44	1R1u	Ol l
DilC. idpe	u671	20S214	26u4u:	26a- : 2	26a- : S	SR 2	Ol l
DilC. idpe	uu71	24: 2: 1:	24u2: : u	2460- - a	2460401	SR61	Ol l
Db&bl	- 471	: 60: 00	: 0u0: 2	: 0- aaS	: 0- 4- a	SRau	Ol l
cplr dpe	1: a71	a6- 0: : 1	1SSa1Saa	1SS646S0	aa- 1Su6	2R 6	Ol l
cplr dpe	1: a72	- a66416	4S1SS12	4S0u0SS	4S1u- 06	1R41	Ol l
cGw&&pe	2S- 71	2460	20: S	26: S	262-	: R4u	Ol l
cGw&&pe	2S: 71	6220	61a-	: u00	6Saa	- R10	Ol l
cq	11u71	a012	au- 0	a2a:	a61:	2Ra:	Ol l
cqiw. dpe	4071	04400	02a1a	0- 0aa	0- 0- 2	1RS6	Ol l
5 lw. dpe	2- u71	6a6- -	6u0a:	666u4	6u- 01	2R22	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	: 172	01a00	02141	012u0	01uS1	SR6-	Qtl
Yiiplr dpe	10271	1u4: :	1a24u	1a114	1ua- a	2R24	Qtl
Yiiplr dpe	10272	a- : a	ua2:	uuSa	aS- 1	- R21	Qtl
Yiiplr dpe	10671	1- 26:	1- 616	1- 1: 0	1- - 46	1RuS	Qtl
Yiiplr dpe	10672	166ua	16u- -	16a: 6	16u26	SR0a	Qtl
Yiildpe	ua71	1- S2: SS1	1- : u41aa	1- 0a: 264	1- 46u1: 4	2Ra6	Qtl
Yiildpe	ua72	14121: S	14- 4200	141u: 4u	14216: u	SRuS	Qtl
Zq O	6672	u1660	u1600	u1- 2:	u1: : 6	SR2:	Qtl
Zd OC. dpe	aS71	- 21S:	- 2: uS	- 2112	- 2266	SRu4	Qtl
Zd OC. dpe	a171	02- :	026S	6a00	01: u	2R1a	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	41y41S	4106S4	4141J0	410S60	SU64	ql w
cn&Amonh	12171	- 410	- E60	- 0Ey	- EJ1	4U0J	ql w
crwenAq	0E72	2- S6	22J0	22J6	22y-	SU4y	ql w
BsrAm	1- E71	- E6J0E	- EE- SS	- 406y4	- E- 2Jy	1UJy	ql w
BsrAm	1- 071	6- ES1-	6- - 20y	61y- 21	62y2SE	1UJ0	ql w
BerhPAm	y71	- JEJ	- y- y	- 00-	- JE6	2U16	ql w
BAmu&G	2Sy71	6J661- y	6JJ- S6E	6y61ySJ	6yS- 0S4	SU04	ql w
BAmu&G	2Sy72	- 1J02E2	- 2S44S1	- 2- 1S12	- 2S0EEE	SU6y	ql w
BromAne	J171	EyS1	EyS1	E0- E	EJ46	1U6E	ql w
RsOmAm	1SJ71	- E4	- ES	2J-	- 2y	12USJ	ql w
RsOmAm	1S671	441J	46Sy	4JS1	46Sy	4U16	ql w
RsOmAm	11171	2- - 6	220S	22- 2	220y	2UJS	ql w
RsRqAm	4- 71	4SE2- 0	4Sy464	4S- E02	4S6Sy1	SU0E	ql w
RsRqAm	4471	6JEE46-	01- J1EJ	604SE02	6y11- yJ	2Uy6	ql w
Rsrbon	1271	- JJJEy2	4112E- 0	41442S-	4S4J444	- U44	ql w
Rsrbon	1272	4y10E	4yy6S	4061y	4Jy1J	2U44	ql w
RGPrAne	- E71	2- S46- JE	20S- 16- 6	2yS2S- J1	26- 661- 4	11UE4	ql w
RGPrAne	- E72	21JJ46	22161S	222262	22SyS6	SUJ2	ql w
RGromAm	E272	22yy2	22011	22y4E	22JJ-	SU66	ql w
RobsR&	Ey72	2Jy2y	2JJSy	2J2- J	2J6Ey	1U2y	ql w
RoI I er	6- 72	6- 4y1	6- 1J0	62JS2	6- 16S	SUEE	ql w
t hwI rowAm	1E671	J016J	J6J66	J46E1	J622J	1UEy	ql w
t hwI rowAm	1E672	- 6SEE	- 41y4	- E2ES	- E166	2U6E	ql w
. rbAm	16471	6- EJ6	62121	61J00	62E2J	1U4J	ql w
. rbAm	16472	2EESE	24EJ6	2ES64	2ESE2	1UJ-	ql w
HsOoPAm	16S71	0EJ- 2	0- 046	02041	041S6	2U1-	ql w
HsOoPAm	16S72	- 4y22	- 42S4	- E4J0	- 4J01	1UJ4	ql w
9 oPmAm	16E71	y066- 6y	y06S21y	y0EySJS	y061JyS	SUS4	ql w
9 oPmAm	16E72	4114JSy	4160y- 4	4SJJS26	412- EyS	SUyy	ql w
DnOAm	11E71	0SSJ066	01S4EJE	01- E0E6	0SJ- S- 6	SUy-	ql w
DnOAm	11E72	y- 4- 42	yES2E1	y4SSJJ	y41E6S	SUJ6	ql w
Don	E472	1J2S146	1JES441	1J46202	1J- JyE-	SUJy	ql w
Don	E672	- - 44S- Sy	- - - 2Syy4	- 211J6yS	- 2yEyyy0	2U22	ql w
Don	E072	0y41Ey	0y- 21E	00y2Ey	0JJJ00	1US6	ql w
KrhI &on	J- 71	- E4	- SE	- 2E	- 2J	0U40	ql w
LesO	2S671	E- 14E6	E2224y	E1JS06	E2- y20	1UJ1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	442J6J	441J61	4- S4- S	4- J- J6	1UEJ	ql w
LesO	2SJ71	2S60SSS	2S660y4	2S4S- 2E	2SEJS4S	SU0E	ql w
LA&GAum	671	2E0y22-	2E40J- y	2EJ414J	2E0S4S-	SU00	ql w
5 sgnewAum	2472	04E12S	0E4ES1	0662J2	0EE- S1	1U4S	ql w
5 sngsnewe	EE72	4- E2yy	4- 0y- y	4- - 2y2	4- EE1S	SUE4	ql w
5 oPbOenum	y471	E1y0-	E- SS2	E12S-	E2SEy	1U0-	ql w
5 oPbOenum	yE71	4410	4J26	4E26	4EyS	4U61	ql w
5 oPbOenum	y671	12014	1- 22-	1- 4E0	1- 1- 2	2UJy	ql w
5 oPbOenum	y071	2- 42	2J60	2y10	20Sy	11U06	ql w
5 oPbOenum	yJ71	0Ey4	6yS2	02y4	026-	4U0J	ql w
NeoOhmAum	1ES71	1E4yJJ	1EE11-	1EEJ1E	1EE- SE	SU2y	ql w
NeoOhmAum	1ES72	4E1yy	4E126	44661	44yyE	SU6E	ql w
NAqkeP	6S72	14y- E	1E1JE	1E2- 2	1E110	1US6	ql w
8 GowI Goruw	- 172	ES1J	E2Ey	E24-	E10-	2U61	ql w
8 o&swwAum	- y72	41210y	4SySJ4	4S1- y4	4S0EE-	1U-6	ql w
CGoOAum	1S- 71	01- 0126	01SySE0	0S- SJ02	0Sy2- E2	SU0J	ql w
CGoOAum	1S- 72	- 141JS6	- 2216- 6	- 1ES060	- 1014S-	1U-J	ql w
pqsnOAum	4E71	46- 4- 46	400J202	46- 6S44	46J2JJ0	1U06	ql w
pqsnOAum	4E72	14E- Ey	14E2y-	141yS6	1441J6	1U-0	ql w
pe&enAum	J271	1- 0	1yy	162	166	1JUE2	ql w
pe&enAum	0072	1E0	1- -	10-	1E4	1- US1	ql w
pe&enAum	0J72	12S	11S	1SE	112	6UJ4	ql w
pAqon	2J71	1- SJS261	1- Sy606J	12y- 0- 01	1- S- J1- -	SU60	ql w
pAer	1S071	- yE1	- y60	- J26	- y1E	1UyJ	ql w
pAer	1Sy71	42Sy	- y42	- 060	- y0-	EU6S	ql w
poOAum	2- 72	E262y	E1y6S	E2411	E2- - -	SU6E	ql w
p&on&Aum	J671	1yJEyJ	1yy200	1y406y	1y0E4J	1U2-	ql w
p&on&Aum	JJ71	1J142SS	10J44E6	1JS1- 06	1JSSS11	SUJ-	ql w
pu&ur	- 471	2y62Ey	- SS4EJ	- S142S	2yy- 0y	SUy2	ql w
i erbAum	1Ey71	yy1- 06-	yJ4E406	y02yJ64	yJ2y0S1	SUyE	ql w
i erbAum	1Ey72	4S66E46	- yy2y- 2	4SSJJ26	4S2206J	SUy6	ql w
i GsPAum	2S- 71	1ESJ	10y2	14EJ	1EJ6	11U--	ql w
i GsPAum	2SE71	- E06	- Jy2	- 4E1	- 6- y	6U26	ql w
i A	11J71	1EJE1	16100	16600	162- E	2UE6	ql w
i A&snAum	4071	1- 0S10	1- yESJ	1- 04SE	1- 0y00	SUy0	ql w
MrsnAum	2- J71	6E126	66224	6- 22E	64JEJ	2U-4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF2-	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	E172	442yE	4- Jy0	4420J	441E0	SUE1	ql w
Y&erbAum	10271	16y0S	10E62	10S2J	101J0	1UyS	ql w
Y&erbAum	10272	J440	J614	J2J6	J44y	1Uy4	ql w
Y&erbAum	10671	12214	1- J- -	12J4J	12y6E	6U2y	ql w
Y&erbAum	10672	166ES	162EE	16- - -	16412	1U20	ql w
Y&&Aum	Jy71	1- E1- - 0J	1- y42- 16	1- 0yE1- 2	1- 0ES20E	1UEy	ql w
Y&&Aum	Jy72	1- 2yJEJ	141- ESS	142- E2J	1- JJy62	- U0S	ql w
ZAnq	6672	622J-	62E6J	6140-	621SJ	SUy1	ql w
ZAqonAum	yS71	1- 210-	1- 2- 41	1- S4EJ	1- 16E0	SU0y	ql w
ZAqonAum	y171	2y- - 2	2yJ- -	2J6JS	2y2J1	1Uy0	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tuwb r :J	N
5 8r CTl wb D8 :t&:J	9 y SU2- &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :uwb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2072	41 41h	41ah1-	41 462	410ah	SMa	dDl
qCTb nCE	12171	- 4ah	- 6h2	- 6 4	- 612	- M0	dDl
qpl r Ccl	0a72	2- - S	2- S1	2201	2- S1	1M2	dDl
Bwpcmb	1- a71	- a- 1h-	- 614h6	- a6- 41	- a0S1S	1M10	dDl
Bwpcmb	1- 071	62200S	64- S- a	6- - - 00	6- - S61	1M8S	dDl
Br pE8mb	h71	- 02a	- 04a	- 0 1	- 0aS	SM06	dDl
Bdl b mTG	2Sh71	6 aSa62	02a	6h 21ha	0S- Sa4	2M16	dDl
Bdl b mTG	2Sh72	- 2h- a06	- 22S S1	- 2- 0a06	- 2aS6a1	1M10	dDl
Bpmb cCr	171	a - a	6- S2	61a2	6Sh6	- M11	dDl
5 wob cmb	1S 71	- 10	2	- S	- S4	4M14	dDl
5 wob cmb	1S671	4a06	4a26	42Sh	44- 0	4M4	dDl
5 wob cmb	11171	2411	2- 00	22h0	2- 62	2M4	dDl
5 w8lcmb	4- 71	4S2S 1	4S6S -	4S4110	4S4Sh4	SM4S	dDl
5 w8lcmb	4471	600S1- S	6h4- a- 2	602ahS6	6 1- 1 h	1M8h	dDl
5 wpenC	1271	- 0h 6a1	- hh2h0h	4SS2440	- h- 1- ah	2M1-	dDl
5 wpenC	1272	400 0	4h66S	4 - - S	4 ah2	1M1	dDl
5 G8hpcCr	- a71	2- S 1a0S	26h- 4h02	2 04216-	262a2hS2	11M81	dDl
5 G8hpcCr	- a72	216h- 2	222a0-	224h6	2214h1	1M6	dDl
5 Gpmb cmb	a272	22ha	22 42	22a4a	220 2	SM14	dDl
5 new8T	ah72	2ha- 1	2 a42	2h0aa	2h206	2M2S	dDl
5 nDDr p	6- 72	640S-	64 01	641a0	64a00	SM4	dDl
&El Dpnl cmb	1a671	4- 0a	Sh	aa- -	6SS2	2M22	dDl
&El Dpnl cmb	1a672	- 466	- 42h1	- 6S a	- aS1a	2M0S	dDl
Fpecmb	16471	6444h	661S0	64a41	6aS- -	1M4-	dDl
Fpecmb	16472	2aS- 4	2aS04	2aa2a	2a211	1M8	dDl
Hwon8Ccmb	16S71	02440	0a hS	06220	04 aa	2M0h	dDl
Hwon8Ccmb	16S72	- 4421	- 404a	- 464	- 46Sa	SM4	dDl
y n8b cmb	16a71	h 6001a	1SaS160a	1SSSS226	1S12- 2S6	- MS	dDl
y n8b cmb	16a72	422SaS4	422- 2-	4220Sh	422- 61-	SM8	dDl
tCocmb	11a71	0S0621-	0a00h0S	0- 616aS	0- - 611	- M4-	dDl
tCocmb	11a72	h64a 2	ha01-	ha44a6	ha 026	SM4a	dDl
tpnC	a472	1 01h 6	1h102 6	1 4Sh22	1 060- 1	2M8a	dDl
tpnC	a672	- - 6h446	- - 000406	- - 4a0h2	- - 002a0h	SM22	dDl
tpnC	a072	0h60h2	S- 660	0h61a2	0h 01	SM42	dDl
KpEDTnC	- 71	- - a	- - S	2h4	- 2S	0M84	dDl
Lr wo	2S671	a2a21a	a- 16aa	a2h4- S	a2 060	SM02	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4407S	tCl Tpmb Cr T.uwb r :J	N
5 8r CTl wb D8 :t&:.J	9 y SU2- &	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :uwb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S071	420- 44	44- aa	442- S	4- 00- 0	2M86	dDl
Lr wo	2S 71	2S- Shh0	2S 4- S0	2Sah01	2Sa - 41	1MS	dDl
LdTGmb	671	2a- 4224	26h0 -	262 12a	262SS00	- M-	dDl
9 wgCr l mb	2472	0aa0	0a40	04- 0-	0a14 -	SM	dDl
9 wCgwCr l r	aa72	446642	441144	442200	44- - a4	SM8a	dDl
9 n8Eeor Cmb	h471	aS 1h	a1 - h	a- 6S4	a2S 0	2M01	dDl
9 n8Eeor Cmb	ha71	4aSh	40h-	4a6	462-	- M24	dDl
9 n8Eeor Cmb	h671	1- ShS	1- 2hS	141hh	1- a26	4M0	dDl
9 n8Eeor Cmb	h071	- 1 4	2h- 4	2h- 4	- S10	4M0h	dDl
9 n8Eeor Cmb	h 71	0661	0hS2	02S2	0a	4M8h	dDl
u r noEb cmb	1aS71	1aSah0	1a0Sa6	1a- a4	1a- - a	2M1S	dDl
u r noEb cmb	1aS72	4a4 0	4a	4400a	4a- -	1M24	dDl
u cdkr 8	6S72	1a422	1a111	1a16a	1a2- -	1M8h	dDl
NGhl DGhpml	- 172	a106	a- 4-	a2- 4	a2a1	1M61	dDl
NnTwl l cmb	- h72	41- 1hh	4S- 4aS	411 4-	4Sh4h0	1M2h	dDl
. Ghocmb	1S- 71	0S64h- 2	04140ha	0Sa6- S6	010 60	2Ma	dDl
. Ghocmb	1S- 72	- 24001a	- 222 44	- 2Sh4a4	- 226601	SM8S	dDl
l dwCocmb	4a71	462a26a	4 141-	46S06 S	40S40 6	- M26	dDl
l dwCocmb	4a72	14a246	1460hh	1464a	14616	SM46	dDl
l r 8 Cmb	271	1a1	121	211	161	2 M42	dDl
l r 8 Cmb	0072	1- 0	1 0	1- -	1a2	1hM8-	dDl
l r 8 Cmb	0 72	hS	1S	1S-	1SS	hM26	dDl
l 8dnC	2 71	120Sh6aS	12ha- 6a	1- 24SSS0	12h60002	2M8a	dDl
l 8vr p	1S071	- - 4	4Sa1	- h06	- ha-	2M0	dDl
l 8vr p	1Sh71	- 0Sh	- 10	41 4	- hS-	6M	dDl
l nocmb	2- 72	a44a-	a2 6-	a4- Sh	a- 0a	1M8-	dDl
l TpnCTcmb	671	1h- h00	1hh a	1h0a10	1h011	1M4S	dDl
l TpnCTcmb	71	104024h	1 - h- 62	1 - S1aS	1 Saa 0	2M1	dDl
l m8mp	- 471	2h a2h	- S2S 2	- S2662	- S1Sh1	SM04	dDl
Ar pecmb	1ah71	1SS266-	1S 42a62	1S2SS064	1S- a66aa	4M1a	dDl
Ar pecmb	1ah72	41SS40S	4S6- 6 1	4116- 40	4Sh- 4hh	SM06	dDl
AGw8mb	2S- 71	1a- -	1- a	16S	1aSS	M4a	dDl
AGw8mb	2Sa71	- 642	- a1	- 4	- 0h2	- M4a	dDl
AdC	11 71	16S a	16- 00	1a6- 4	16S- 2	2M-	dDl
AdTwCmb	4071	1- 6- 12	1- 0a04	1- 4S4S	1- ah0a	1M12	dDl
RpwCmb	2- 71	64S0S	6a444	6a4 6	6aSSS	1M24	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr T:u wb r :J	N
5 8r CTI wb D8 :t&:J	9 y SU2- &	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a172	4a2aa	4412	4- hh4	444ah	1M46	dDI
YTTr pecmb	10271	1024a	1 2h6	104ha	1060h	- M11	dDI
YTTr pecmb	10272	16h	2h2	014	- h2	- M41	dDI
YTTr pecmb	10671	12 2-	126S6	1- 416	12h4	- M4-	dDI
YTTr pecmb	10672	16hSS	16S01	1664h	16a4S	2M40	dDI
YTTpcmb	h71	1- 66 S1-	14046- 46	1- 1026	14Sh 6ha	4M8a	dDI
YTTpcmb	h72	14- - - 40	1- a4446	14Sa642	1- h0 12	2M6	dDI
ZdCd	6672	61 - 1	6- 424	61 h	62- 4	1M44	dDI
ZqpdnCcmb	hS71	1- 10h6	1- 64- 2	1- 44- S	1- 421h	1M0-	dDI
ZqpdnCcmb	h171	- 1S6S	- S2SS	2h44S	- S2- -	2M6	dDI

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Inst Id :P8

LB Number :	LB1264C3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430C3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHCF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2C2- 0C3012 16:CJ:2-	DstsFiRe Nsme :	C32AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23C2	36J49	3JC9C	3J139	333C6	C.96	cpw
Antimony	12101	6CJ	313	JCJ	311	14.CJ	cpw
Arwenic	37C2	43C	- 9-	422	42J	9.CJ	cpw
Bsrium	1- 701	64- 74	6- 727	661C7	64661	2.C4	cpw
Bsrium	1- 301	11C3JJ	116921	116217	114641	2.9-	cpw
BeryRium	901	632	311	679	6J1	4.CC	cpw
Biwmuth	2C901	631- 436	6646262	63CC244	66J6661	C.7-	cpw
Biwmuth	2C9C2	- 174JJ6	- 1- 3- J-	294616-	- C39433	- .36	cpw
Bromine	J101	4636	464-	4- 6J	4762	- .31	cpw
Csdmium	1CJ01	37	1CJ	37	J6	22.- 7	cpw
Csdmium	1C601	- J36	- 371	4C13	- JJ1	- .44	cpw
Csdmium	11101	39J	634	366	346	J.79	cpw
CsRium	4- 01	32C9-	3- JC9	3- 14C	3- C14	1.1J	cpw
CsRium	4401	124C3C1	12J1273	1234C99	1267- 72	1.31	cpw
Csrbon	1201	269C397	2693193	2373- 13	23171C-	1.- 7	cpw
Csrbon	12C2	- 1J6J	- 2J29	- - C46	- 27J1	1.92	cpw
ChRrine	- 701	1C- 93J27	1C431C9-	1C- J4C34	1C413664	C.47	cpw
ChRrine	- 7C2	6966J	69663	6J3C4	69- 46	C.JC	cpw
Chromium	72C2	71CJ	724J	7- 61	72- 9	2.42	cpw
CobsRR	79C2	7- 21	7- 91	71J1	729J	2.C2	cpw
Copper	6- C2	12- 32	12749	12676	12726	1.14	cpw
Dywprowium	1760 1	17136	17679	17- 13	17- J4	1.62	cpw
Dywprowium	1762	6J12	6- 77	63J7	6671	- .J6	cpw
Erbium	1640 1	114- C	11793	117JC	117- 6	C.JC	cpw
Erbium	1642	4331	4661	476J	4666	2.1J	cpw
GsdoRRium	16C01	1- 999	1- 6- 2	1- 316	1- 3J2	1.4C	cpw
GsdoRRium	16C02	647J	6632	6772	6761	1.6-	cpw
HoRRium	1670 1	9J74C41	979C33-	972J4C6	967334C	1.39	cpw
HoRRium	1672	41C29- 2	41JJC49	- J276- 3	4C- JJ3-	4.69	cpw
Indium	1170 1	6973164	3C77611	3CJ919-	3C- - 9J9	C.9J	cpw
Indium	1172	9- 1412	942971	JJ262-	91J997	- .4J	cpw
Iron	74C2	- 1319C	- 241- 1	- 226- 7	- 21- 19	1.14	cpw
Iron	76C2	61764J9	6267772	627- 192	6227C3J	C.96	cpw
Iron	73C2	1471JJ	14JJ42	143C96	143C42	1.24	cpw
Krypton	J- 01	2J3	- C4	233	29C	4.7J	cpw
Lesd	2C601	94417	96- - 4	936- 2	96123	1.6J	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	3J467	JO236	JOJ71	39J64	1.76	cpw
Lesd	2OJ01	- 3- - 96	- 37374	- J1444	- 36J67	1.1O	cpw
Lithium	601	2461J99	24- 6J4J	272- 24J	243- 99J	1.JO	cpw
Msgnewium	24O2	1- 3- O2	1- 673J	142227	1- J3O2	2.22	cpw
Msngsnewe	77O2	J1O67	J- 466	J294-	J2491	1.7-	cpw
MoRybdenum	9401	96J3	9- 2J	977-	972-	1.9O	cpw
MoRybdenum	9701	913	3J-	J92	J64	J.2O	cpw
MoRybdenum	9601	26O9	2279	27- 4	2463	3.43	cpw
MoRybdenum	9301	4OJ	763	77O	7OJ	13.12	cpw
MoRybdenum	9J01	1427	1437	12OJ	1- 3O	1O.- 7	cpw
Neodymium	17O01	26JO1	233- 6	23- O1	23239	1.32	cpw
Neodymium	17O02	J2O9	J43-	J4J9	J- 9O	1.J3	cpw
NickeP	6O02	2JO3	- O24	2314	2J4J	7.79	cpw
8howphoruw	- 102	1O63	992	97O	1OO-	7.9O	cpw
8otswwium	- 902	J- O9J	J- 291	J- 6O1	J- - - O	O.- O	cpw
Rhodium	1O- 01	69222- J	3O121J2	637174-	6J97- 21	1.92	cpw
Rhodium	1O- 02	- 146- 92	- 1471J4	297- - - 6	- OJ16- 3	- .61	cpw
Scsndium	4701	4463717	4716979	4434- 22	44J6267	O.6O	cpw
Scsndium	4702	142- - J	142J67	1- 4666	1- 9976	- .2J	cpw
SeRenium	J201	7	04-	017	01J	01- 6.2J	cpw
SeRenium	3302	4O	- 3	- 3	- J	7.O9	cpw
SeRenium	3JO2	23	- 4	44	- 7	24.41	cpw
SiRcon	2J01	24- 7413	24324O7	2747- 2-	24J4- J2	2.27	cpw
SiRver	1O301	J7J	J42	J27	J42	1.9J	cpw
SiRver	1O901	JJ-	JOJ	JOJ	J- -	7.2O	cpw
Sodium	2- 02	2772-	27- 9J	27- J9	274- 3	O.29	cpw
Strontium	J601	- 43O2	- 624J	- 6OO6	- 7672	2.- -	cpw
Strontium	JJ01	- OO- 33	- O919-	- O4JO6	- O4392	1.47	cpw
SuRur	- 401	26- 169	2792- O	2733JJ	26OO62	1.O3	cpw
Terbium	17901	9911714	93676- 9	9JJ66OO	9J747J7	O.39	cpw
Terbium	17902	4O46911	4O2- 626	- 341997	- 9- 3711	4.- 1	cpw
ThsRium	2O- 01	463	7J-	437	7OJ	12.JO	cpw
ThsRium	2O701	9J-	1O92	1OOJ	1O2J	7.72	cpw
Tin	11J01	- 3O9	- 6O9	41J4	- J- 4	J.O1	cpw
Titsnium	4301	241O4	24322	247- O	24472	1.29	cpw
Ursnium	2- J01	116O6	12O3-	1214J	11942	2.46	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	71O2	J- 6-	J- 9-	J- O6	J- 74	O.7-	cpw
Ytterbium	1320l	- 413	- 213	- 271	- 297	- .27	cpw
Ytterbium	1320l2	1411	142J	1611	14J-	3.4J	cpw
Ytterbium	1360l	- 179	- - 27	- 1J4	- 22-	2.39	cpw
Ytterbium	1360l2	11J76	12276	11- 23	11J1-	- .94	cpw
Yttrium	J90l	12JJ3O79	12JJ329O	12336OO9	12J7O12O	O.7O	cpw
Yttrium	J90l2	127- 132	123974J	119412O	12422JO	- .72	cpw
Zinc	66O2	12OO7	113OJ	11J62	11J7J	1.27	cpw
Zirconium	9O0l	24O6-	24131	2434J	24- 23	1.71	cpw
Zirconium	910l	71O1	774-	766O	74- 7	7.42	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusbR:J	8 N
5 PR CTI sb DPP:t&:J	9 y SU2- I	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb cOcmb	2072	hS004N	hS6 2	hSS1hN	hS4 66	SMM-	dDw
qCTb nCE	12171	112461	111N4S	1S 0 S	111- 64	1M2h	dDw
qpwr Ccd	0h72	- 610	- 024	- N14	- 01N	2M0h	dDw
Bspcmb	1- h71	1SNh2	S02 2	Sh NN	SNS44	SM2N	dDw
Bspcmb	1- 071	1044622	16 h002	10S22Sh	10142SS	1MMh	dDw
Br pEPRcmb	71	1 hN2	1 26N	1N0N-	1 211	2MS	dDw
Bcwb mTG	2S 71	6 2666	0124N01	0Sh6N- 6	0S- 612h	1M4-	dDw
Bcwb mTG	2S 72	- 26 h60	- 2- NS-	- 2- - - 0	- 240hN	SMM	dDw
Bpmb cOr	N171	614-	624-	6220	62S4	SMM6	dDw
5 sob cmb	1SN71	1- 2	1221	120	1206	4M2h	dDw
5 sob cmb	1S671	h- 4-	h66N	hN1N	h61S	4M-	dDw
5 sob cmb	11171	164- h	164 -	16- Sh	16411	SMM	dDw
5 sPdcmb	4- 71	4h4- 4h	4h02N6	44NN66	4h- 4	SM4	dDw
5 sPdcmb	4471	06N40S6	0NS6N1N	04 144N	066S 1	2MSN	dDw
5 spenC	1271	4- - N14	4h01N6-	4h 1h4S	4hSSh10	- M-	dDw
5 spenC	1272	h6 61	hh1 6	hh246	hhNS1	1MMS	dDw
5 GPmpcOr	- h71	1 61SSh-	24SN6242	26- 6 N2	2- - 64426	14M00	dDw
5 GPmpcOr	- h72	2S61h-	21h- 06	22S4S1	21- 00	- MN	dDw
5 Gpmb cmb	h272	h1hN	6S6-	4- - h	h1Nh	SM1	dDw
5 nesPT	h 72	- 4hN00	- 4h4S-	- 41SS	- 44S 6	SM0N	dDw
5 nDDr p	6- 72	1 - 1 S	1 - 2S4	1 - - - 0	1 - 244	SMS4	dDw
&EwDpnwcmb	1h671	- 20h	64S6	42- 1	46- N	1M0S	dDw
&EwDpnwcmb	1h672	4SS16	- N 0S	- 221	- 4S2	1M	dDw
Fpecmb	16471	014 -	0- 2- h	0S0 0	01N42	1M0h	dDw
Fpecmb	16472	2N1NS	2N- N0	2N4h4	2N- 4S	SMMS	dDw
HsonRCcmb	16S71	N2- h4	N4N1	N1 4	N- Sh6	1MMh	dDw
HsonRCcmb	16S72	4S40h	- 64	- 0 2S	- - 4N	- M1	dDw
y nPb cmb	16h71	06N0S-	N6 NN6	00h26	NS461	SMMN	dDw
y nPb cmb	16h72	41 - 4 N	410 4 0	416h 4	410 66-	SM-	dDw
tCocmb	11h71	0SN0S00	026 22	01Nh1N4	01NS02N	1M20	dDw
tCocmb	11h72	hh2 6	h- 44-	- NSh	4N - 2	1MSS	dDw
tpnC	h472	2124SN-	21414N-	21- h 06	21- - N40	SM42	dDw
tpnC	h672	- N0S24	- N1062h4	- N4222- 0	- N4- - 66-	SM0	dDw
tpnC	h072	2S14S	1 S- 1	14NS0	10 -	SM1	dDw
KpEDTnC	N- 71	- 46	- - 4	- N	- h6	NMS	dDw
Lr so	2S671	6S426	614 S	h h002	6ShS1S	1MM	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S071	hS- - 2N	hS- 0 0	4 1446	4 h24	1M4S	dDw
Lr so	2SN71	2- 44- - 4	2- N- 60N	2- 61646	2- 6- 21	SMM-	dDw
LdTGmb	671	2h20S14	2hShNhh	2h- hh6	2h22N1-	SM01	dDw
9 sgOr wcmb	2472	N6S20-	Nh2216	Nh4S41	Nhhh1S	SM4	dDw
9 sOgsOr wr	hh72	h Sh2	h - 04	hN6N0	h S- N6	SMMN	dDw
9 nPEeor Omb	471	hh 0	h S1S	hh6S4	h6N0S	- M2N	dDw
9 nPEeor Omb	h71	4Nh1	4626	4Nh	400	2M00	dDw
9 nPEeor Omb	671	1- N04	14h2h	144hS	142N-	2M4	dDw
9 nPEeor Omb	071	- SSS	20N4	2 hS	2 11	- MS	dDw
9 nPEeor Omb	N71	01S2	066	0NN6	0hh2	hM6	dDw
u r noEb cmb	1hS71	16 40N	10- 2h1	10SN- N	1011N	1M12	dDw
u r noEb cmb	1hS72	h10S-	h14Sh	h1- 41	h14N-	SM0	dDw
u cdkr P	6S72	1S62- S	1Shh	1Shh- N	1Sh0N	SM6	dDw
8 GhwDGhpmw	- 172	hh- h	hN- h	h64-	h601	2M6N	dDw
8 nTswwcmb	- 72	46- N -	40S- 6N	4h hS	464h S	1MMN	dDw
. Ghocmb	1S- 71	0114S02	0204102	0S64 1h	01h1Sh-	1MM-	dDw
. Ghocmb	1S- 72	- 2N 6h2	- 1N00h1	- 112646	- 1 66N-	2M0N	dDw
I dsCocmb	4h71	4h 1 N	46SS4 4	406662-	46h- S- h	2M12	dDw
I dsCocmb	4h72	14h h1	14- 66	14- 40h	144464	SM1	dDw
I r PCcmb	N271	2226	22NS	21 2	22- -	1MMN	dDw
I r PCcmb	0072	2- -	2h0	220	2-	6MM	dDw
I r PCcmb	0N72	- 21	- 6	- 12	- - 4	M10	dDw
I dPdnC	2N71	1hN- 02 N	1h- 106h6	14N641S1	1h- - 6Nh	- M10	dDw
I dPr p	1S071	60N- 4	60hN-	6h4 N	66 02	1M2	dDw
I dPr p	1S 71	64661	64242	642- 4	64- 0	SMMN	dDw
I nocmb	2- 72	6 - 4	0102	66 4h	6 - 41	- M4h	dDw
I TpmCTcmb	N671	2220h1	210620	22hS11	2210 6	1M01	dDw
I TpmCTcmb	NN71	2S2N02	2S44- 2S	2S1 - hS	2S- SNSS	SM02	dDw
I mPmp	- 471	- S-	- S2 N6	- S1h6h	- S2NhS	SM4S	dDw
Ar pecmb	1h 71	1S110SN2	1S2N6621	1S1hS41S	1S1N40S4	SMMN	dDw
Ar pecmb	1h 72	41- S- N	4S10N 6	4S02- - 1	4S0- h42	1MMN	dDw
AGsPPmb	2S- 71	h - S-	h 11S	h0h2N	hN640	1M06	dDw
AGsPPmb	2Sh71	14266h	144S62	14SS4-	1422h0	1M4-	dDw
AdC	11N71	2SN2h	2Sh- 2	212SS	2SNh2	1M01	dDw
AdSCcmb	4071	1h2SSS	16S 0	1hS- 41	1h4446	- M01	dDw
RpsCcmb	2- N71	020- h	020- 4	02 4-	02NS4	SM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r :J	8 N
5 PrCTI sb DPP:t&:J	9 y SU2- I	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:u sb r :J	S0- q . FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h172	10 2N4	10 242	10N4N2	10 SS-	SM2h	dDw
YTTr peomb	10271	1 NS0	1 1h6	1 S14	1 - 26	2M1	dDw
YTTr peomb	10272	hh	2S	4N0	41N	1M6	dDw
YTTr peomb	10671	1hS 2	140 2	14hSN	140 N	1M0	dDw
YTTr peomb	10672	16N-	16016	16Nhh	16NS-	SM4h	dDw
YTTpomb	N 71	1- 4 h6 0	1- 46h4-	141SN612	1- NhS2N4	2M2	dDw
YTTpomb	N 72	142- h22	14116 6	1- 046-	14S- 2N6	1MM2	dDw
ZdCd	6672	126S41	120hNh	12NNN-	120hS-	1M12	dDw
ZqpdnComb	S71	14 01	140N 0	14h h-	140Nh6	1M20	dDw
ZqpdnComb	171	- - 6SS	- 4- -	- - - 04	- - 0N	1MMN	dDw

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4y8y88	hSy411	4y2SS4	hSS1- 4	1U0h	ql s
c n&AmonE	12171	24- 4	2- 0h	24y2	24- 4	2U4S	ql s
c rsenAq	0h72	1880	1yyy	18y6	1y28	- U2-	ql s
BarAum	1- h71	- 08846	- 8- 244	- 81h10	- 812S2	SUh8	ql s
BarAum	1- 071	604h- -	606211	66S146	60S2y0	1U 2	ql s
BerEIlAum	y71	4yS6	486h	4y08	4y16	1U16	ql s
BAsmu&G	2Sy71	6y6h1- 2	6y6Shy8	01y0264	0S4Syy8	1Uy2	ql s
BAsmu&G	2Sy72	- 2y- 8h2	2hS8688	- 12- 841	2y0h46S	1- U88	ql s
BromAne	8171	6y20	64h2	6h- h	66- 8	- U82	ql s
RaOmAum	1S871	2- -	2SS	242	22h	yU8S	ql s
RaOmAum	1S671	44hy	4h18	4606	4hh1	2U46	ql s
RaOmAum	11171	1824	1yyy	1808	1ySS	4U02	ql s
RalqAum	4- 71	226280	22y241	228611	228S46	SU68	ql s
RalqAum	4471	- 818S8-	- 8hy121	- 884S68	- 8h- 0h0	SU86	ql s
Rarbon	1271	4- 148- 6	44hyS- -	464S- 0S	440141-	- U6h	ql s
Rarbon	1272	hh2h4	h4- 18	h61S8	hh220	1U62	ql s
RGlorAne	- h71	221y4180	2hh1h0S6	20y8- 8y6	2h2- 126-	11Uh1	ql s
RGlorAne	- h72	21Sh40	210- 01	221- 04	2164- 1	2Uh-	ql s
RGromAum	h272	20000	28442	26408	20h66	- U62	ql s
Robal&	hy72	- 2h- 4	- 2y2h	- 2Sy6	- 2h18	1U20	ql s
RoI I er	6- 72	0h- 6y	048S6	041Sy	04061	SU84	ql s
t EsI rosAum	1h671	1S6440	1S0y20	1SyS8h	1S082S	1U2-	ql s
t EsI rosAum	1h672	44Sh2	440Sh	4421-	44- 2-	SU00	ql s
. rbAum	16471	0y228	811y8	088S8	0y04h	1U6S	ql s
. rbAum	16472	- 122-	- 2S2h	- 1h08	- 16Sy	1U20	ql s
HaOolAnAum	16S71	y2602	y46h-	y166h	y2yy0	1U6-	ql s
HaOolAnAum	16S72	446h8	4h0y2	4- 4- 0	4462y	2U64	ql s
9 olmAum	16h71	1SS8- hS-	1SS2SS80	yyS66S4	1SSS- - y8	SUyS	ql s
9 olmAum	16h72	42S61h2	- 2SS28S	4S- 6048	- 814- y-	14U12	ql s
DnOAum	11h71	0102606	0106- y2	0S888h0	014hy0h	SU6y	ql s
DnOAum	11h72	y6- - 0h	016h- 6	y241S4	868SSh	1hU28	ql s
Don	h472	2S0h- 02	2S44621	2Sh206y	2Sh0h80	SU00	ql s
Don	h672	- 04660- 8	- 0y6268S	- 6- h1- 84	- 026S268	2U21	ql s
Don	h072	880106	8868yS	8668hS	88S- S6	1U 2	ql s
KrEI &on	8- 71	- - y	- 60	- 6S	- hh	4U2S	ql s
LeaO	2S671	4yy2- 6	h1216h	4y828-	hS- 228	1Uh4	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	410y- S	418888	412h20	416448	SU82	ql s
LeaO	2S871	1yh2yhh	1y88282	1yh1hy0	1y64208	1US6	ql s
LA&GAum	671	2401y00	2h8y14h	2h2h- 24	2h28816	2U2	ql s
5 agnesAum	2472	64- 864	66S22S	64SSSh	648S- S	1U66	ql s
5 anganese	hh72	4488- y	44y- 20	44SShS	446S02	1U10	ql s
5 olEbOenum	y471	- - 8hy	- - 16h	- - 0- -	- - h86	1U1S	ql s
5 olEbOenum	yh71	- 2hy	- 4Sy	- 4- 4	- - 60	2U81	ql s
5 olEbOenum	y671	y1S-	y462	yS0S	y212	2U16	ql s
5 olEbOenum	y071	2S84	22SS	2260	2184	4U2h	ql s
5 olEbOenum	y871	h- 68	h8h1	hhh1	hhyS	4U10	ql s
NeoOEmAum	1hS71	1y- 811	1y- 602	1yhhSS	1y4- 28	SUh2	ql s
NeoOEmAum	1hS72	hy6h2	h00h0	h82- 2	h8h40	1U68	ql s
NAqkel	6S72	1h2S8	1hy4y	1hhSy	1hhhh	2U4S	ql s
PGosI Gorus	- 172	- 8S1	- 6y2	- - 10	- 6S-	0US4	ql s
Po&assAum	- y72	- 14006	- 1S814	- S- 288	- Sy626	1U88	ql s
CGoOAum	1S- 71	018- 681	0- SSy41	018262S	0222414	SUy4	ql s
CGoOAum	1S- 72	- - 10S0y	24h- 4h6	- Sy- 026	2yh40h-	1hU10	ql s
pqanOAum	4h71	4648- 8S	40ySh1S	4684016	40S086y	1Uh0	ql s
pqanOAum	4h72	146hy-	11S10S	1- 88y-	1- 188h	14Uhh	ql s
pelenAum	8271	1yS	140	14y	162	14Uy2	ql s
pelenAum	0072	160	2S0	1y-	18y	1SU08	ql s
pelenAum	0872	1- 8	16S	126	141	12U2S	ql s
pAAqon	2871	121002- 6	12448846	122h8h22	122y4868	1U1-	ql s
pAver	1S071	4006	hSh1	46hy	482y	4U10	ql s
pAver	1Sy71	464-	4868	484-	4084	2Uh8	ql s
poOAum	2- 72	h220S	h2h12	h1h2h	h21S2	SUyy	ql s
p&onA&um	8671	2S0S12	21S80S	21226h	21SS4y	1U-S	ql s
p&onA&um	8871	1yS1226	1y04Shy	1yhS882	1y42Sh6	1Uy2	ql s
pulfur	- 471	20- 2y2	20012y	206yS2	20h004	SU08	ql s
i erbAum	1hy71	1S1y4y2h	1S22h6y6	1SS22- h8	1S14066S	1US8	ql s
i erbAum	1hy72	418220y	- 11426-	- y- 86Sh	- 04hS4y	14Uyh	ql s
i GallAum	2S- 71	21SS	24- 4	1y10	21hS	12U18	ql s
i GallAum	2Sh71	h28h	h41S	hS26	h24S	- U0-	ql s
i An	11871	21806	2226S	22h- 6	22224	1U4y	ql s
i A&anAum	4071	12y1h-	128018	128666	128846	SU21	ql s
MranAum	2- 871	8SSh-	82- hy	8S8yy	811S4	1U44	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	44208	4- y- 4	424S-	4- h- 8	2U2y	ql s
Y&erbAum	10271	21044	21hh1	212S1	214yy	1U28	ql s
Y&erbAum	10272	yy- 2	1Shy-	1S121	1S21h	- U4	ql s
Y&erbAum	10671	1h406	140hS	1h468	1h2- 1	2U04	ql s
Y&erbAum	10672	106h6	1h- hy	102- y	160h2	0U1	ql s
Y&&Aum	8y71	1- yS8y62	1- 8221Sh	1- 881042	1- 80Sy- 6	SU2	ql s
Y&&Aum	8y72	14y8- y2	1118- h0	1- 10Syh	1- 11281	14UhS	ql s
ZAnq	6672	h26y8	h4y6S	h- 2yS	h- 64y	2U1y	ql s
ZAqonAum	yS71	86yy0	862h8	8hy4S	86- y8	SU6-	ql s
ZAqonAum	y171	18y8S	1y6y8	186- 8	1y1Sh	2U8-	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUND

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
c lumAnAum	2072	4hhh66	4h- C01	CSSh40	4h8161	SN8S	ql s
c n&AmonE	12171	CS4-	4hS1	CC6S	C168	6N01	ql s
c rsenAq	0C72	181S	1000	10S8	106C	2N1C	ql s
BarAum	1- C71	- C0C82	- 6426-	- 6- 6hS	- 6184C	1N82	ql s
BarAum	1- 071	6- 40S8	6- 48h6	6- 8C84	6- 6S6-	SN14	ql s
BerEllAum	h71	1h81	2S16	1h42	1h8S	1N86	ql s
BAsmu&G	2Sh71	C- 124S1	660618C	6840- C0	6208648	1- N4S	ql s
BAsmu&G	2Sh72	- - S0S08	- 20h- 24	- 24- S16	- 20640-	SN18	ql s
BromAne	8171	06- 6	82S-	8- 08	8S02	4N81	ql s
5 aOmAum	1S871	20C	2C4	- 0C	- S1	21N4-	ql s
5 aOmAum	1S671	- C42	42S1	- h60	- hS-	8N0C	ql s
5 aOmAum	11171	- Ch6	- 8Ch	- Ch-	- 68-	4N16	ql s
5 alqAum	4- 71	1606- 4	16h4S0	16hShC	168012	SN06	ql s
5 alqAum	4471	28- 2CC8	28hh1- C	2882048	2801481	1N21	ql s
5 arbon	1271	C8262CS	Ch0C18h	611- C2S	Ch016C-	2N41	ql s
5 arbon	1272	0- S04	02h2-	0- - SS	0- Shh	SN26	ql s
5 GlorAne	- C71	22- 6068C	262- 1h26	282C2121	2C610244	11N60	ql s
5 GlorAne	- C72	2S8601	21- 416	210- 48	21- 14C	2N84	ql s
5 GromAum	C272	4- 442	42h14	4- 102	4- 106	SN01	ql s
5 obal&	Ch72	2- 44-	2- 48h	2- 4h6	2- 406	SN12	ql s
5 ol I er	6- 72	8h41h	80411	8842-	88418	1N14	ql s
t EsI rosAum	1C671	C- 44h	C2- 28	C- SC6	C2h4C	1N80	ql s
t EsI rosAum	1C672	21284	21Ch1	2S0C-	212Sh	2N8S	ql s
FrbAum	16471	4S262	4SC01	41482	4S002	1N06	ql s
FrbAum	16472	1Ch0-	1C82-	16ShS	1Ch62	SN84	ql s
HaColAnAum	16S71	4Ch8S	461- h	40Sh2	464S4	1N1S	ql s
HaColAnAum	16S72	214S0	211- 0	211SS	2121C	SN0h	ql s
y olmAum	16C71	04C2- 41	h2hh4- -	h60- hS4	88S8CCh	1- NCS	ql s
y olmAum	16C72	42- C0S6	416S048	42466h0	4214- 84	1N11	ql s
DnOAum	11C71	CCCh01	68682hS	0S401S0	64h10hS	12NC1	ql s
DnOAum	11C72	h- 8628	h62- - C	h4- hS8	h482hS	1N1	ql s
Don	C472	10- 8h24	102hS4h	10Sh4- 6	102C8S-	SN80	ql s
Don	C672	- Sh48SC0	- SC84C28	- S1h- S08	- SC0C221	1N2-	ql s
Don	C072	0216S2	026081	021421	02- 268	SN42	ql s
KrEl &on	8- 71	- hC	- 1C	- 1h	- 4-	1- N10	ql s
LeaO	2S671	h4h404	hC22- 2	hCS84-	hCS84h	SN1C	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 IAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
LeaO	2S071	0hC- C-	0h- 411	0h4121	0h42hC	SM12	ql s
LeaO	2S871	- 86h4- -	- h- 82SC	- 80SCCS	- 8h20- S	1N31	ql s
LA&GAum	671	2Sh- 62h	2421- - 4	2C1hh61	2- 44h0C	hM02	ql s
9 agnesAum	2472	- 6hhh4	- 6- 88S	- 680h0	- 60CC0	SM38	ql s
9 anganese	CC72	C0h8CS	C81648	C0h02C	C8S4S8	SM1h	ql s
9 olEbOenum	h471	hh80	1S621	h80h	1S162	- M1C	ql s
9 olEbOenum	hC71	40C1	C- h-	4068	4h0S	0M16	ql s
9 olEbOenum	h671	628C	68C2	68C2	666-	4M11	ql s
9 olEbOenum	h071	- - 10	- 2Sh	- - 26	- 284	1M18	ql s
9 olEbOenum	h871	0011	0000	8S1h	08- 6	2N30	ql s
NeoOEmAum	1CS71	h2h28	hSh2S	h- - 2-	h2- hS	1Mh	ql s
NeoOEmAum	1CS72	206hh	2080-	20- 88	206C-	SM3h	ql s
NAqkel	6S72	12SS2	110- 8	11- S1	1168S	- N3-	ql s
PGosI Gorus	- 172	C1Sh	CSS1	4h- 4	CS1C	1M06	ql s
Po&assAum	- h72	- 1444C	- 141SC	- 14h22	- 144h1	SM1-	ql s
. GoOAum	1S- 71	C4C- 1Sh	68S1- 16	0S448S4	64- - S06	1- M-	ql s
. GoOAum	1S- 72	- 284- 4h	- 216h81	- 241C02	- 2406- 4	1N3C	ql s
pqanOAum	4C71	- C2h044	420C04C	4C0hh8h	41284h-	1- N3h	ql s
pqanOAum	4C72	14S21C	142102	14208C	141024	SM1C	ql s
pelenAum	8271	11h	122	1S8	116	6M01	ql s
pelenAum	0072	110	8S	1- -	11S	24M31	ql s
pelenAum	0872	82	0S	8h	8S	11M16	ql s
pAAqon	2871	8h14868	8h18CC-	8hh2868	8h42Sh6	SM4h	ql s
pAver	1S071	1Ch- C	16- C2	1C04-	16S1S	1M14	ql s
pAver	1Sh71	146h2	1C12C	1C0- 4	1C184	- M4C	ql s
poOAum	2- 72	48140	460Sh	48024	4086S	2M10	ql s
p&ona&um	8671	210- S1	210hCS	21022h	2104h-	SM18	ql s
p&ona&um	8871	2SC682h	1h88668	1h66C24	2SS4SS0	2MC	ql s
pulfur	- 471	2084SC	2814- 0	2814S2	28S41C	SM02	ql s
i erbAum	1Ch71	08488- 8	h610S8S	h0- 22C0	hS66SC8	11M04	ql s
i erbAum	1Ch72	4S82222	41C208h	4S- h- 04	4Sh1462	1M4S	ql s
i GallAum	2S- 71	1642	1060	18SS	10- 6	4M31	ql s
i GallAum	2SC71	- 826	- Ch2	4126	- 848	6M1C	ql s
i A	11871	2h4S0	2hC04	2hS4S	2h- 4S	SM1-	ql s
i A&anAum	4071	1- 1S02	1- SCh-	12h1h8	1- S288	SM0C	ql s
RranAum	2- 871	C- 4SC	C- - 88	C2h4C	C- 246	SM4h	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAn&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
VanaOAum	C172	CSC02	4h816	C11S4	CS4h8	1M28	ql s
Y&erbAum	10271	12- h8	12- O6	122O6	12- - 0	SM0h	ql s
Y&erbAum	10272	C024	O6S1	ChC0	C061	- M14	ql s
Y&erbAum	10671	hC2h	8hS-	h10S	h2S1	- M41	ql s
Y&erbAum	10672	146h2	14C0C	14881	14016	1M3C	ql s
Y&&Aum	8h71	1S4C04C0	12h6C0Sh	1- 1h62- S	122S646C	12M44	ql s
Y&&Aum	8h72	1- S2- 66	1- 6hCSC	1- S- 4S2	1- 2CSh1	2M1S	ql s
ZAnq	6672	h4C1-	h4h86	h4h4h	h4816	SM28	ql s
ZAqonAum	hS71	1hhh8	2S04h	1h4- h	2SS62	- M28	ql s
ZAqonAum	h171	484-	4426	4406	4C81	4M10	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	41J26h	414S16	4S6JSN	411h- 1	1M1J	dDw
qCTb nCE	12171	- SSS	- 1Sh	2NJh	2hNh	4M2S	dDw
qpwr Ccd	0J72	14J6	1J1S	1410	1461	- M2S	dDw
Bspcmb	1- J71	26N2hJ	26NS1h	266NNh	2600- J	SM2N	dDw
Bspcmb	1- 071	464064	460J- 6	402N02	46N- hS	SMMN	dDw
Br pEPmb	h71	1J1S	16S4	1626	1JNS	- M1S	dDw
Bcwb mTG	2Sh71	6N- h- 4-	6hN6221	6N4S400	6NNN6NS	1M4-	dDw
Bcwb mTG	2Sh72	- 1JS0SN	- 2JhhNN	- 204N- S	- 22NJSN	2M1S	dDw
Bpmb cCr	N171	021S	0S44	0444	02- -	2M0N	dDw
5 sob cmb	1SN71	2SN	242	- 10	2J6	21M01	dDw
5 sob cmb	1S671	- N60	4S42	42- 4	4S4N	4M-	dDw
5 sob cmb	11171	- JJ4	- 1NJ	- - 0-	- - 01	JM46	dDw
5 sPlcmb	4- 71	1SJS6S	1S04- 2	1S4JS1	1SJ664	1M40	dDw
5 sPlcmb	4471	1NJ2S6N	1N6h2S-	1NS1S04	1N4S0N2	1M1-	dDw
5 spenC	1271	4S21S1S	4SN21- h	4SJh664	4SJ4201	SM06	dDw
5 spenC	1272	JSJh6	4h1JN	4N41-	4h- Nh	2M2J	dDw
5 GPmpcCr	- J71	2- 6h611S	20J010S-	2h04110h	20SS2hh0	11M4	dDw
5 GPmpcCr	- J72	224J40	2204h2	22h2J-	220Sh0	1M3J	dDw
5 Gpmb cmb	J272	- 6112	- 6S4h	- 6- 6-	- 610J	SM46	dDw
5 nesPT	Jh72	1hhh4	1hJJ0	1h0S0	1h0J-	1M12	dDw
5 nDDr p	6- 72	646S-	6JS42	64666	6400S	SM10	dDw
&EwDpnwcmb	1J671	41S- N	411- 1	- h4- 4	4SJ- 4	2MJ	dDw
&EwDpnwcmb	1J672	102SJ	1064J	10- 11	10- N0	1M12	dDw
Fpecmb	16471	- 1N22	- 220-	- 146-	- 1NJ-	1M2N	dDw
Fpecmb	16472	1- 24-	1- S6S	12h1S	1- S01	1M2N	dDw
HsonPCcmb	16S71	- J6J0	- 0261	- 0- J-	- 60J0	2M6S	dDw
HsonPCcmb	16S72	10J2J	10JNJ	16h21	10- 44	2M12	dDw
y nPb cmb	16J71	h60NNS6	hh16426	h22hJ00	h6SN20S	- M0-	dDw
y nPb cmb	16J72	- hNh221	42- S146	4106N04	41- 2SNS	- M36	dDw
tCocmb	11J71	6h6J- 46	02446N-	6Nh2NhN	0S- 4- Sh	2M64	dDw
tCocmb	11J72	h1S1h4	hJJ1Nh	h6JhSN	h4- 06-	- M1-	dDw
tpnC	J472	126JSS2	122J12h	122NJ0S	12- hJ60	1M0N	dDw
tpnC	J672	241NJ- - h	24- S60- S	2- Nh6J40	2412hJ- h	SMM0	dDw
tpnC	J072	J6h- 04	J04N1-	J6164-	J6N61S	1M16	dDw
KpEDTnC	N- 71	- 12	2h4	- 16	- S0	- M12	dDw
Lr so	2S671	N6J1N1	NJ212J	N61JN-	NJh62h	SM0N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tusb r:	8 N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	01hJ1h	01N616	01426N	01046N	SMlh	dDw
Lr so	2SN71	- 6S6hh4	- J64S0S	- J4J11-	- J02SJh	SMNh	dDw
LdTGmb	671	2JJS166	2J0SS1S	2J- 1S1S	2JJS- hJ	SM06	dDw
9 sgOr wcmb	2472	2JJS0S	2JJ122	24062h	2J26S0	1M01	dDw
9 sOgsOr wr	JJ72	6SSh6N	Jh- 1JS	JNh0Jh	Jh4626	SM10	dDw
9 nPEeor Omb	h471	0- 44	00S2	0J61	0J- 6	2M4S	dDw
9 nPEeor Omb	hJ71	- S60	- 2- 4	- 2N4	- 1hJ	- MJ	dDw
9 nPEeor Omb	h671	4S60	4J- 4	4J26	4- 06	6M1S	dDw
9 nPEeor Omb	h071	2S2J	1N2J	1N- 4	1NhJ	JM10	dDw
9 nPEeor Omb	hN71	4h1N	4Jh-	4026	404J	- M44	dDw
u r noEb omb	1JS71	04- SJ	0- hh6	0- N2-	04S42	SM-	dDw
u r noEb omb	1JS72	22- 4h	22- J2	21h1N	222S6	1M12	dDw
u dkr P	6S72	11- 4J	111S4	112J1	112- -	1MSN	dDw
8 GhwDGhpmw	- 172	- 1- 4	2h60	2NSh	2h0S	JM40	dDw
8 nTswwcmb	- h72	1h- - J0	1h4h64	1NN220	1h21N-	1MM-	dDw
. Ghoomb	1S- 71	6h1hJ6N	0SJ04S1	6NN0N- 6	6hJ4h- J	1M1S	dDw
. Ghoomb	1S- 72	- Sh4601	- 2h661N	- - S14N4	- 2- Sh24	- M0J	dDw
I dsCoomb	4J71	44N1004	46N1166	4JS4NhS	4JJJh4-	2Mlh	dDw
I dsCoomb	4J72	1- Nh4h	142S1N	1446N1	141NN-	2MS2	dDw
I r P Comb	N271	N1	120	h4	1S1	2- M0-	dDw
I r P Comb	0072	1SS	11-	0S	h4	2- MlS	dDw
I r P Comb	0N72	J1	6N	JN	Jh	14M4N	dDw
I dPdnC	2N71	1244S- JN	12JN6J1-	12- 66SS2	124642h1	SM1S	dDw
I dPr p	1S071	1- - 6J	141N-	141h1	1- h1-	- M41	dDw
I dPr p	1Sh71	1- 4S0	1- 06J	1- NJ0	1- 600	1M04	dDw
I noomb	2- 72	JNSh1	J0hJ0	J0402	J0N4S	SM16	dDw
I TpnCTomb	N671	144hJ1	1J112S	14h2h-	14N4J4	2M1-	dDw
I TpnCTomb	NN71	120h- hN	12h6S0h	12N0SNh	12N0J22	SM0J	dDw
I mPmp	- 471	2JhS20	2J41- 4	2J- h- S	2JJ6h0	1M1-	dDw
Ar peomb	1Jh71	h602NJJ	1S110JJ4	h0S110N	hN- SJ2h	2Ml-	dDw
Ar peomb	1Jh72	- h- hh- N	41- 62J6	414S4Nh	4S0222N	2MN1	dDw
AGsPmb	2S- 71	1- SS	1- 0J	1JSN	1- hJ	0Ml0	dDw
AGsPmb	2SJ71	- S42	- - S1	- S60	- 1- 0	4Ml4	dDw
AdC	11N71	1hJ14	1hh2-	1h6S6	1h6N1	1MSh	dDw
AdsComb	4071	N2h- h	NJ402	N44h1	N4- S1	1Ml1	dDw
RpsComb	2- N71	41J- J	41- h-	4ShN-	41- S4	SM0h	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU26	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP u sb r:	S06q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4S604	- N6h6	- N662	- h- 44	2M1-	dDw
YTTr pe omb	10271	h6S4	h12N	h0- 0	h4hS	- M0	dDw
YTTr pe omb	10272	4N0-	4JhJ	4JS1	46J6	4M16	dDw
YTTr pe omb	10671	026h	046h	0100	0- SJ	2M34	dDw
YTTr pe omb	10672	12010	141JN	1- 0NS	1- JJ2	JM1	dDw
YTTpomb	Nh71	120- 10- 4	1- 200h02	12N62h16	12hJ0J41	2M2S	dDw
YTTpomb	Nh72	12- h1- S	12h- - J1	1- 212S4	12N4J62	- M2J	dDw
ZdCd	6672	042- 0	0- hJ2	0- JhS	0- h26	SM44	dDw
ZqpdnComb	hS71	14h- -	1J6S1	1J2- 4	1J2J6	2M1h	dDw
ZqpdnComb	h171	- J- 4	- 010	- - 26	- J26	JM16	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	4- - SSS	42yy21	42- 8S8	428y1S	1USy	ql s
c n&Amonh	12171	2E2E	2684	2EES	2E86	- U2y	ql s
c rsenAq	0E72	1- S8	1- 16	12- 0	1280	- U 8	ql s
BarAum	1- E71	- 14S4-	- 14S- 6	- S4862	- 1Sy8S	1U0S	ql s
BarAum	1- 071	EE88E-	EE2y6E	E48- S0	EE- - 0E	SUy6	ql s
BerhllAum	y71	1681	10- 0	1026	101E	1U04	ql s
BAsmu&G	2Sy71	6y0402y	0- y6E8S	0004y24	0- 82S00	EU42	ql s
BAsmu&G	2Sy72	- 2S06E4	- - 48y84	- 2101EE	- 2E0y- 1	2U42	ql s
BromAne	8171	0800	8108	8E- 6	81y0	4US2	ql s
RaOmAum	1S871	21-	2E8	18-	218	10U 4	ql s
RaOmAum	1S671	42Ey	4SS1	46Sy	42yS	0U12	ql s
RaOmAum	11171	2661	266E	28S4	201S	- USS	ql s
RalqAum	4- 71	- 014EE	- 0- - 10	- 6040E	- 0S04y	SU8S	ql s
RalqAum	4471	626- 68y	6- 0y46y	61yE264	620y404	1U48	ql s
Rarbon	1271	E80400y	61S- Sy2	61408- 1	6S41yS1	2U42	ql s
Rarbon	1272	0- 620	0EEyE	0- 044	04- 22	1U4y	ql s
RGlorAne	- E71	2- 611- - 6	20- yy282	2yE1SE06	2684S- y8	11U14	ql s
RGlorAne	- E72	22- 1E2	226681	2- S066	226866	1U68	ql s
RGromAum	E272	- 01E2	- 6640	- 0- 12	- 0S- 0	SUy4	ql s
Robal&	Ey72	22EE1	226yE	22S10	22421	1UEy	ql s
RoI I er	6- 72	6E00E	664S8	66S0-	66S8E	SU48	ql s
t hsI rosAum	1E671	40210	46066	4E412	4646E	2US2	ql s
t hsI rosAum	1E672	1y6S1	18y1-	1y2S1	1y2- 8	1U8S	ql s
. rbAum	16471	- 66- E	- 686S	- E264	- 62E-	2U 8	ql s
. rbAum	16472	14641	14688	14- - 1	14EE4	1U -	ql s
HaOolAnAum	16S71	4126E	41S- y	412- 1	4110y	SU S	ql s
HaOolAnAum	16S72	2S2Ey	1y60E	1yES8	1y814	1Uyy	ql s
9 olmAum	16E71	1SS1204-	1SSE- 8E0	11- ySy26	1S48E842	0U48	ql s
9 olmAum	16E72	416SS8-	4180144	4S448- y	41- S68y	1U8-	ql s
DnOAum	11E71	0- 0E0yy	0466180	8Sy- y62	064E- 16	EU12	ql s
DnOAum	11E72	y6S- S4	yE- Ey6	y40486	yE- 0yE	SU60	ql s
Don	E472	1- 88000	1- 0SE- E	1- 8E6S4	1- 816- y	SU01	ql s
Don	E672	2ES- 0- Ey	24E082E-	24080448	248S1S2S	SUy-	ql s
Don	E072	6SS442	E8y18y	E8y- 0S	Ey- SSS	1USy	ql s
Krhl &on	8- 71	- - E	- 40	281	- 21	1SUy6	ql s
LeaO	2S671	420S0-	4- 0- 82	4212S8	428EE4	1Uy1	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- E0114	- 64y- 1	- 44S44	- EE- 6-	2Uy0	ql s
LeaO	2S871	160yy62	10SE80S	16- 424E	160- - Ey	2U10	ql s
LA&GAum	671	246- 801	2E88811	28228y6	262E1y-	6Uy4	ql s
5 agnesAum	2472	68S- yE	68864y	60E062	6816S2	SUy6	ql s
5 anganese	EE72	- - 82S0	- - 6444	- - - - y0	- - 6S16	SU02	ql s
5 olhbOenum	y471	yy0S	1SS2y	1S- y6	1S1- 2	2U28	ql s
5 olhbOenum	yE71	2y10	2y42	28ES	2yS-	1U6-	ql s
5 olhbOenum	y671	4068	4606	4- 10	4E80	EU1y	ql s
5 olhbOenum	y071	1y0E	18y2	1042	180S	6U-	ql s
5 olhbOenum	y871	4ES1	4484	40S1	4E62	2U64	ql s
NeoChmAum	1ES71	8S6- E	81144	0yyES	8SE06	SU04	ql s
NeoChmAum	1ES72	24y80	244E6	2- 0y8	2441-	2U44	ql s
NAqkel	6S72	124- 6	1220E	12E0y	124- S	1U22	ql s
PGosI Gorus	- 172	E01S	EyE1	E468	E01S	4U2-	ql s
Po&assAum	- y72	4SS1S6	- y10y4	- y4y- y	- yE61-	1US6	ql s
CGoOAum	1S- 71	016002y	020- EyS	0yE0S22	0466114	EU04	ql s
CGoOAum	1S- 72	- 218626	- 2S0E40	- 282y14	- 2- 6- 62	1U26	ql s
pqanOAum	4E71	4620E81	4680228	E2yS0- E	4868E1E	0UE4	ql s
pqanOAum	4E72	1440S4	14- 26S	14SyS1	142yEE	1U4	ql s
pelenAum	8271	116	82	166	122	- 4U6-	ql s
pelenAum	0072	6-	8-	y0	81	2SU6y	ql s
pelenAum	0872	80	06	84	82	6Uy1	ql s
pAAqon	2871	y1- E- 1y	y1Ey08E	8y4S242	yS0844y	1U-	ql s
pAver	1S071	- 8- 4	- 426	- 8Sy	- 68y	6U21	ql s
pAver	1Sy71	- 4y2	- 442	- EE1	- 4yE	1UEE	ql s
poOAum	2- 72	E2648	E1Syy	ES- 88	E1- 08	2U2E	ql s
p&ona&Aum	8671	- 84ES6	- y4- 22	- 081y-	- 8E60-	2U11	ql s
p&ona&Aum	8871	- E48- - 8	- E- SyS1	- 42y820	- ES- S22	1U8-	ql s
pulfur	- 471	2084E4	2826- 4	2801E6	282048	1UE4	ql s
i erbAum	1Ey71	1S22- 212	1S44E2S0	11- 222E0	1S66- EEy	EU4E	ql s
i erbAum	1Ey72	416Sy46	- yy- E- 4	4S4S- 2-	4S64y- 4	2U12	ql s
i GallAum	2S- 71	1010	1E10	1442	1EE8	yU12	ql s
i GallAum	2SE71	4SSy	- 0Ey	- 260	- 608	1SU26	ql s
i An	11871	1- - 24	1- - yS	12y1E	1- 21S	1UyE	ql s
i A&anAum	4071	yS8yE	y- Ey0	y4S60	y28E-	1U84	ql s
MranAum	2- 871	E- 82-	EEES6	E- SS-	E4111	2U6	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- E- 14	- 6266	- E0EE	- E008	1U -	ql s
Y&erbAum	10271	1S4S4	1Sy- 8	1S20y	1SE41	- U 2	ql s
Y&erbAum	10272	ES- 4	E14S	4yyE	ESE0	1U48	ql s
Y&erbAum	10671	8S6y	0y6y	8486	810E	- U E	ql s
Y&erbAum	10672	14- 14	1- 804	14S46	14S08	1UE0	ql s
Y&&Aum	8y71	1- - 2- S86	1- 64414y	1E288686	14S8E- S0	0U4y	ql s
Y&&Aum	8y72	1- 86460	1- S62E4	1- S- 0E8	1- - 216S	- UE-	ql s
ZAnq	6672	40SE1	48S81	404Ey	40E- 1	1USy	ql s
ZAqonAum	yS71	2- 2yE	241- S	22600	2- - 60	- U 2	ql s
ZAqonAum	y171	ESy-	ES68	E4E1	E2S4	4U 2	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	42Sy80	4S2- 28	412108	4118- 1	2U20	ql s
c n&Amonh	12171	2210	1yES	24Sy	21y2	1SUES	ql s
c rsenAq	0E72	1446	1- 0S	1- E0	1- y1	- U46	ql s
BarAum	1- E71	2y8- 6-	- S4Sy8	- S6626	- S- S2y	1U4S	ql s
BarAum	1- 071	E- 8- 8E	E- ES- -	E- 00SS	E- 0S- y	SU-	ql s
BerhllAum	y71	16y0	102y	1626	1684	- U12	ql s
BAsmu&G	2Sy71	68y486y	6y0S8Ey	6y01- 60	6y4E6yy	SU6-	ql s
BAsmu&G	2Sy72	2y00y4y	- - E- 606	- 21E80-	- 1824yy	EUy0	ql s
BromAne	8171	001y	8211	8128	8S1y	- U28	ql s
RaOmAum	1S871	1y2	242	16-	1yy	2SU16	ql s
RaOmAum	1S671	44E1	- y84	- yy2	4142	6U4E	ql s
RaOmAum	11171	2211	21y6	2- 2-	224-	- U1S	ql s
RalqAum	4- 71	- E6428	- 6S20y	- E2621	- E644-	1US0	ql s
RalqAum	4471	Ey6S01E	6S2016E	Ey- - 6E-	Ey0- 844	SU81	ql s
Rarbon	1271	- 6- - 02y	- 0- yE8S	- 00- 1y1	- 01EESS	1Uy6	ql s
Rarbon	1272	44620	4E- 0S	4E6- 8	4E212	1U16	ql s
RGlorAne	- E71	2- - 6216S	20S8E06E	286- 0444	26- 610yS	1SU28	ql s
RGlorAne	- E72	218SE8	21821S	22E- yE	22SEE4	1UyS	ql s
RGromAum	E272	2y80E	2881y	2y- 1-	2y- - 6	1U8S	ql s
Robal&	Ey72	2S002	2Sy22	2SE- 2	2S042	SUyE	ql s
RoI I er	6- 72	E28E8	ES2SE	ES8S0	E12yS	2U01	ql s
t hsI rosAum	1E671	4ES18	4- S0y	4- 0- 1	4- y4-	2U2E	ql s
t hsI rosAum	1E672	10y- y	10y42	1004E	1080E	SU6-	ql s
. rbAum	16471	- - 8S2	- 2- - 2	- - Ey-	- - 242	2Uy	ql s
. rbAum	16472	1- 44S	1- 210	1- - S0	1- - 21	SU84	ql s
HaOolAnAum	16S71	- 8114	- 00y6	- y18-	- 8- 64	1U8y	ql s
HaOolAnAum	16S72	18- - y	10yyy	18- 2y	1822-	1US6	ql s
9 olmAum	16E71	1SS1y2- 0	y8y6S00	y8SyEyy	yyS8- S4	1US6	ql s
9 olmAum	16E72	- 8640Ey	42SE0S8	4166E12	4S08yy-	4UE0	ql s
DnOAum	11E71	0SSSEy-	02800E8	02208- y	0102S6-	2U11	ql s
DnOAum	11E72	8EE864	y66S8E	y- 00y8	y1yy16	6U22	ql s
Don	E472	12460- 8	110y180	118S1S-	12S2S1S	- U22	ql s
Don	E672	2- - 8- 68y	2284yS06	2- SEy066	2- Sy0E1S	1U10	ql s
Don	E072	EE8820	E42- 01	E44y2-	E480S0	1U61	ql s
Krhl &on	8- 71	2y4	2y2	281	28y	2U8	ql s
LeaO	2S671	- 640Sy	- 66826	- 68E42	- 666y2	SUE2	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- S22- 8	- S0S66	- SE2ES	- S48E1	SU3S	ql s
LeaO	2S871	141- 08E	1420E- -	14- 10y2	1424- 0S	SU66	ql s
LA&GAum	671	2E11844	2E2y81S	2E2- 1E4	2E216S-	SUJ6	ql s
5 agnesAum	2472	4E- S06	4- 88- 2	44y06y	440226	1U60	ql s
5 anganese	EE72	- 180- 1	- S81- 4	- 11EE2	- 128S6	1U0-	ql s
5 olhbOenum	y471	86S-	8yS-	y62S	yS42	EU08	ql s
5 olhbOenum	yE71	2110	2- SS	2284	22- 4	4UE4	ql s
5 olhbOenum	y671	- E06	4SS1	- 826	- 8S1	EU62	ql s
5 olhbOenum	y071	14S8	1- ES	102E	14yE	1- UES	ql s
5 olhbOenum	y871	- - ES	- 810	- 026	- 6- 1	6U31	ql s
NeoChmAum	1ES71	0E820	0Ey2S	0021E	06- 21	1US2	ql s
NeoChmAum	1ES72	22y4-	22- yy	2- 1S0	22816	1U62	ql s
NAqkel	6S72	1S28S	1S1E0	1S104	1S2S4	SU66	ql s
PGosI Gorus	- 172	28- 4	2EES	2410	26SS	8U18	ql s
Po&assAum	- y72	2406SS	241112	24E1- E	244616	1UJ4	ql s
CGoOAum	1S- 71	0S218SS	0- - E6- E	6y8yy14	011E08-	2U6y	ql s
CGoOAum	1S- 72	2y206Ey	- 2S6006	- 1860- 6	- 1S0SE0	EUS1	ql s
pqanOAum	4E71	4E01681	40S12y1	448E220	4E86S66	2UJ0	ql s
pqanOAum	4E72	1202y4	142- Sy	14SES0	1- 60S-	6USS	ql s
pelenAum	8271	64	1SE	y6	88	24U61	ql s
pelenAum	0072	E0	8S	0S	6y	16Uyy	ql s
pelenAum	0872	64	E8	6S	61	EUS-	ql s
pAAqon	2871	1SS1021-	1S1818S2	1SS284y0	1SS0E8- 8	SUy1	ql s
pAver	1S071	20ES	- S- 4	20SS	2828	6UJ6	ql s
pAver	1Sy71	20y2	20Sy	2042	2048	1UE-	ql s
poOAum	2- 72	60666	6E6yy	66862	66042	1U48	ql s
p&ona&um	8671	- 6- - 1y	- 61y18	- 6S06S	- 61yyy	SUJE	ql s
p&ona&um	8871	- - 01648	- 20E8SS	- 281S0E	- - SyES8	1U6-	ql s
pulfur	- 471	26811-	268y82	201yES	26y681	SU0E	ql s
i erbAum	1Ey71	1SS806- E	1S20SyE4	1SS11- 0S	1S12- - 2S	1UJ2	ql s
i erbAum	1Ey72	- 66yy80	41664y4	4S6182S	- y661SS	6U6S	ql s
i GallAum	2S- 71	1- 0E	120E	148-	1- 08	0UE6	ql s
i GallAum	2SE71	- - Sy	- - 10	- - 84	- - - 0	1U2-	ql s
i An	11871	1- E- 2	12E81	12yyS	1- S- 4	- U66	ql s
i A&anAum	4071	0ESy6	00- - -	0E- 82	0Ey- 0	1U6S	ql s
MranAum	2- 871	2800E	- S42y	- S4y6	2yySS	- U26	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- 4yE-	- 4411	- - y- 0	- 44- 4	1U48	ql s
Y&erbAum	10271	yy01	yy0y	y080	yy12	1US y	ql s
Y&erbAum	10272	4y62	40E1	48S1	48- 8	2U28	ql s
Y&erbAum	10671	0011	0E- 6	04y4	0E8S	1UE2	ql s
Y&erbAum	10672	120E1	141E2	14Sy0	1- 660	EU31	ql s
Y&&Aum	8y71	1- - SE0- E	1- 4y- E20	1- E20206	1- 44210y	SU3y	ql s
Y&&Aum	8y72	11yE2- S	1- 46S- 2	12y64- 8	120y2- -	6US1	ql s
ZAnq	6672	- - 0S-	- 1y4y	- 1y- 6	- 2E- S	- U12	ql s
ZAqonAum	yS71	1y06E	1yy6E	1yy2-	1y884	SUE-	ql s
ZAqonAum	y171	4606	44- 4	42- 4	4448	4Uy0	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16.J2aJ1a	TwiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 410	44a - 2	442u2	44uu44	1R20	Qt I
d. iqe C. E	12171	20Sa	2uSa	2u10	200u	2R10	Qt I
dIl p. qO	0 72	224	216-	210S	21a-	2RS0	Qt I
Bwldpe	1- 71	2 2S00	24 114	242210	24646a	2RS6	Qt I
Bwldpe	1- 071	4- aa1	4- aSu4	42aS 4	4- 401S	1R1u	Qt I
BplE8dpe	a71	1640	16u6	1611	164u	2R2u	Qt I
Bdqe biG	2Sa71	62 6S1	0 u400	00 uaa	01aaa2u	11R42	Qt I
Bdqe biG	2Sa72	- 244uua	- 2a6611	- 2640- u	- 26u046	SRuS	Qt I
BIOe q p	u171	16 20	166-	1uS- 0	10S66	4Ra4	Qt I
9 wne dpe	1Su71	21-	2S4	2a6	2- u	21R 4	Qt I
9 wne dpe	1S671	- 006	4u06	4406	4- 06	12R0-	Qt I
9 wne dpe	11171	- 1- -	- - 24	- 1u-	- 21-	- RSu	Qt I
9 w8Odpe	4- 71	022ua2	01SaSa	0104- -	010S0u	SRu4	Qt I
9 w8Odpe	4471	121112- 2	121241Su	12S6ua4S	121S1420	SR24	Qt I
9 wIr C.	1271	ua2 uaa	a26SS0a	a2a6u46	a16Sa41	2R2-	Qt I
9 wIr C.	1272	11 a14	114S- 2	11- - S-	114416	1R1u	Qt I
9 G8Clq p	- 71	22226440	2 6SaSu	20- 1- 444	2 S4a6 a	1SR 4	Qt I
9 G8Clq p	- 72	2SS 0	2S 410	2Su041	2S4aS	2RS1	Qt I
9 GIOe dpe	272	- 4642	- 44au	- 41 1	- 44- S	SR0-	Qt I
9 Or w8	a72	- 1642	- 11au	- Sa- 4	- 12 u	1R14	Qt I
9 Ot t pI	6- 72	u204-	u1a u	u- S20	u2 06	SR60	Qt I
TEI t IOI dpe	1 671	424a-	41- au	4S40a	414 0	2R4-	Qt I
TEI t IOI dpe	1 672	10214	16a01	16u01	10S1a	1RS4	Qt I
UIr dpe	16471	- - a44	- 4au	- 46S4	- 46u2	2R2	Qt I
UIr dpe	16472	1- uS1	1- 4S	1- 21-	1- 1u	2R1u	Qt I
HwnC8q dpe	16S71	- 010u	- 0u6-	- uS14	- 06u	1R1u	Qt I
HwnC8q dpe	16S72	1u4- S	1064u	10- - 1	10uS-	- R10	Qt I
h O8e dpe	16 71	uu- 2 6u	1Sa2- 002	112SS244	1S- 1uu62	12R	Qt I
h O8e dpe	16 72	411 6S4	42060u0	42Sa0aS	42SS020	1Ra-	Qt I
& ndpe	11 71	62u6260	0u4 a	uSSS4Su	0- 00 4-	12Ru	Qt I
& ndpe	11 72	a44041	a6 SS2	a6 4a	a u41-	1R24	Qt I
&C.	472	1au0u u	2S4- - u4	2S1 60a	2S1 641	1R u	Qt I
&C.	672	- 0SSa a	- 6406S44	- au4S12	- 64uauu4	1R41	Qt I
&C.	072	u02 1a	u0 aSS	u uaa6	u6a1- u	1RS-	Qt I
KIEt iC.	u- 71	- 24	2ua	- S0	- S0	R01	Qt I
Lpwn	2S671	1a14- u	1uu41S	1u- uu4	1u0a1S	2RS2	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	&I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM-a	T8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	TwiwMt8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1 - u -	1 1ua0	1 1S61	1 2201	SRa4	CI I
Lpwn	2Su71	020u6a	01a2 S	021662	022a20	SR62	CI I
LqiGdpe	671	22a 24	204u S6	206S20	26S1- 42	1SR1a	CI I
y wg. pl dpe	2472	24S2u 1	2- a1uu2	2- 2a1SS	2- 04611	1R6u	CI I
y w. gw. pl p	72	S 11S	SaS 6	4a0S2a	S- 0- 2	1R22	CI I
y C8Er np. be	a471	1SS21	1S0- u	1S1- 0	1S2aa	- R04	CI I
y C8Er np. be	a 71	46 1	40- 4	4a 1	400a	- R24	CI I
y C8Er np. be	a671	64S2	6u00	6S00	64 2	6R24	CI I
y C8Er np. be	a071	2a a	- S42	20 a	2a2S	4Raa	CI I
y C8Er np. be	au71	06a4	6au	0644	0441	R 2	CI I
mpCnEe dpe	1 S71	6 110	6 u2u	64a- 0	6 2a4	SR02	CI I
mpCnEe dpe	1 S72	1au- 2	1a uu	1a- 40	1a ua	1R24	CI I
mqCkp8	6S72	2S1- u	1a020	1a6S4	1au2-	1R41	CI I
NGCI t GCIbI	- 172	1SS- 0	1S646	1S22a	1S- S4	- RS2	CI I
NCiwI I dpe	- a72	- S60	- S062a	- S 4 u	- S6614	SR 6	CI I
F GCndpe	1S- 71	62a 1u6	0620- 21	uS- S226	0- 10 0u	12R41	CI I
F GCndpe	1S- 72	- 1 0 06	- 2S1141	- - 641a0	- 24Sa01	- R 6	CI I
DCw. ndpe	4 71	4S6a2 2	S- 0226	1u2 41	406- SS0	12R01	CI I
DCw. ndpe	4 72	142Suu	144aS0	14 1 2	144S4a	1R1u	CI I
Dp8p. dpe	u271	2 6	20	21	24a	12R 4	CI I
Dp8p. dpe	0072	u-	1S-	0S	u6	1aR61	CI I
Dp8p. dpe	0u72	a1	aa	u0	a2	6R62	CI I
Dq8qC.	2u71	1S4- 2a0S	a aa 4	a40u24u	au2- 024	R a	CI I
Dq8vpI	1S071	1a10	21- 4	1a0	2SSa	R u	CI I
Dq8vpI	1Sa71	1a S	1u10	10- -	1u- 4	Ra6	CI I
DCndpe	2- 72	- a 140	- a6606	- uaSuu	- a- 6- 0	1RS2	CI I
DiIC. idpe	u671	60au 1	604062	66 46	60- - 6S	1RSu	CI I
DiIC. idpe	uu71	624u624	6S4646S	au- ua2	6Sa2aa2	2R20	CI I
Db8bI	- 471	- 4a- 1S	- Su- 1	- 1uu4	- S60	SR 0	CI I
cpIr dpe	1 a71	uaa160-	112a1 00	114- 110a	1S 01406	12Ra6	CI I
cpIr dpe	1 a72	4SS012a	414u2u2	412160	4Sa2- 62	1Ru-	CI I
cGw8dpe	2S- 71	10u4	1u S	1660	1060	R2	CI I
cGw8dpe	2S 71	41S1	- a10	4- 4-	412S	R1u	CI I
cq	11u71	46S	66u	- S1	406	- R 6	CI I
cqiw. dpe	4071	0 2a4	0424-	02- 2	0- a 4	2RS4	CI I
5 Iw. dpe	2- u71	1uS4u1	10uuu4	10u0Su	10a- u	SR 4	CI I

Reviewed By:Bin
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Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwCICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	T wiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	172	4a4u2	4uS44	406- a	4u- uu	2RSS	CI I
Yiiplr dpe	10271	1S- 4	11S	1116-	1Su u	4RS	CI I
Yiiplr dpe	10272	112	Su4	11u	1S	SR	CI I
Yiiplr dpe	10671	u4 -	uS1a	u144	u2S6	2R02	CI I
Yiiplr dpe	10672	1- - 46	1- uS0	14u -	14SS2	R 2	CI I
Yiildpe	ua71	121S2142	146- 146-	14au 6SS	1- aS64S2	11R 1	CI I
Yiildpe	ua72	1- 11a 2	1- 1au22	1- aaa0-	1- 4- a16	- R62	CI I
Zq O	6672	0- a-	04S6-	02a 0	0- 6 1	SR02	CI I
ZdqOC. dpe	aS71	2Saa1	21026	221	21624	2R02	CI I
ZdqOC. dpe	a171	40- 4	4u- 4	4u1u	40a	1R12	CI I

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Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF4S	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAum	2072	40SJ22	460SJ-	46J- J0	46J064	SU4S	ql w
cn&Amony	12171	1hhJ	102h	16hJ	1640	hUSE	ql w
crwenAq	0h72	- 121	- 1- h	- 14S	- 1- 2	SUJ1	ql w
BsrAum	1- h71	1JS6h6	1J0- J6	1J- 0JJ	1J- E4-	1UJ-	ql w
BsrAum	1- 071	- 2216h	- - 6E41	- 21- J2	- 26J2E	2U6J	ql w
BeryPAum	E71	1J02	1E60	1J04	1ES4	2UJ6	ql w
BAumu&G	2SE71	6EEhE- 4	h2- 164-	6- ESh6S	62S6S46	14U4h	ql w
BAumu&G	2SE72	- 22hJJ0	- 2S2104	- 2S4SS0	- 21S6JE	SU41	ql w
BromAne	J171	hEJh	60Jh	6h00	644E	6U44	ql w
RsOmAum	1SJ71	1hS	21-	160	106	1JUJh	ql w
RsOmAum	1S671	444-	- S0h	- E10	- J12	1JUSE	ql w
RsOmAum	11171	1Eh6	1J21	10JJ	1Jhh	4UJS	ql w
RsRqAum	4- 71	11hJ461	124E610	126S461	1222J46	4UhJ	ql w
RsRqAum	4471	1E10021h	1EE24E- 2	2SSJJ42S	1E0- S1JE	2U46	ql w
Rsrbon	1271	- S2220h	- S14- Jh	- Sh- 4- 0	- S- SS- 2	SU6J	ql w
Rsrbon	1272	- 6J- J	- 6262	- 61- 0	- 6412	1US-	ql w
RGPorAne	- h71	2162E- h2	2h2J146S	2000Eh- J	24JE60J-	12U42	ql w
RGPorAne	- h72	2S1E1E	2S62h-	214E0E	2S0010	- U2S	ql w
RGromAum	h272	- 1- 44	- S0J6	- S0JS	- SE0S	1USh	ql w
RobsR&	hE72	- EJS6	- E224	- E1SS	- E- 00	SUE6	ql w
RolI er	6- 72	0J6J0	0JS00	0Jh6S	0J441	SU41	ql w
t ywl rowAum	1h671	hSE6h	h114E	hS6Sh	hSES6	SUh4	ql w
t ywl rowAum	1h672	2SJES	21200	2SJ06	21S14	1USJ	ql w
. rbAum	16471	44SE1	4h02E	4- 2E6	44- 02	2UJS	ql w
. rbAum	16472	1J- - 6	1040h	10h0h	100Eh	2U6h	ql w
HsOoPAum	16S71	4J4Sh	4J- 40	46hS0	400h-	2U26	ql w
HsOoPAum	16S72	222E2	222EE	22h6E	22- J0	SU01	ql w
9 oPmAum	16h71	1S1E020h	0424E- J	E1JS1JS	JE- 41- 1	1hU0S	ql w
9 oPmAum	16h72	422SS42	41J2- 2-	4Shh- J6	41h2hJ4	2USJ	ql w
DnOAum	11h71	024E612	h- - 60E6	641h2- 1	6- - - JJS	1hU14	ql w
DnOAum	11h72	E4JEJ6	E4- 0EJ	E2hE02	E- EhJh	1U2J	ql w
Don	h472	26S1- J2	2hE4114	2hJJS- 2	2hE4hSE	SU26	ql w
Don	h672	46- JhJhE	4660JSJS	4600hEhJ	4661- 2EE	SU44	ql w
Don	h072	11S0JhJ	11S- 64S	11SE6J2	11S0S6S	SU2J	ql w
Kryl &on	J- 71	2E2	- hS	- - 6	- 26	EU2S	ql w
LesO	2S671	2226J6	2- 6S6J	2- 2ShS	2- S26J	2UEJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I ers&or :	aswl sP
Lsb psmI Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psmI Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	1J4212	1E102h	1JJ6E-	1JJ21S	2US1	ql w
LesO	2SJ71	J0- SSS	E1E- 0E	JEEEE6	JE04hJ	2U6S	ql w
LA&GAum	671	2h140hh	2S2hJh-	2- 4144h	22E4S1J	1SUJ1	ql w
5 sgnewAum	2472	2S0E6JS	2SJ- E40	2S4E2E-	2S0SE0-	SUE1	ql w
5 sngsnewe	hh72	206EE2	206h0-	20J0Jh	2004hS	SU42	ql w
5 oPybOenum	E471	2- 161	2- 10J	2- 462	2- 260	SU0-	ql w
5 oPybOenum	Eh71	464-	4626	401J	4662	1USh	ql w
5 oPybOenum	E671	J10J	J42J	Jh- 6	J- J1	2U1E	ql w
5 oPybOenum	E071	- ShS	202h	200h	2JhS	6U14	ql w
5 oPybOenum	EJ71	0400	0400	0h11	04JJ	SU26	ql w
NeoOymAum	1hS71	00E60	J140-	0J4Eh	0E- 12	2UJJ	ql w
NeoOymAum	1hS72	2- - S0	2- 4SS	2- - h1	2- - h-	SU2S	ql w
NAqkeP	6S72	206E4	2601J	26JE6	201S-	1UE2	ql w
8 GowI Goruw	- 172	- 242	- 460	- 210	- - SE	4U16	ql w
8 o&swwAum	- E72	21- 4Eh	2SES- 4	2SEJ- 0	21S0JE	1U1-	ql w
CGoOAum	1S- 71	0212E1h	h202S24	6- hJ4JS	62J114S	1hU4E	ql w
CGoOAum	1S- 72	- 1E1h66	- 1J- ESS	- 1462h2	- 10- ES6	SU06	ql w
pqsnOAum	4h71	46664EE	- 4- 6EJJ	4264- 00	4122621	1hU21	ql w
pqsnOAum	4h72	142- 0J	144hS0	1421h2	14- S12	SUE1	ql w
pePenAum	J271	2hE	161	1J2	2S1	2hUh-	ql w
pePenAum	0072	1S-	1S-	00	E4	16UJS	ql w
pePenAum	0J72	J4	E4	ES	JE	hU6-	ql w
pAAqon	2J71	1h- 1J644	1h- 1124h	1h416666	1h- 4JJh2	SUJJ	ql w
pAPer	1S071	1E60	21hS	2SE2	2S0S	4Uh-	ql w
pAPer	1SE71	1JJ4	10SJ	10E2	10Eh	4UJJ	ql w
poOAum	2- 72	6hJ22h	646JS2	64hSSE	6hSS12	1U1S	ql w
p&ona&Aum	J671	h460Sh	h02S11	hhEES1	hhEh- E	2U26	ql w
p&ona&Aum	JJ71	hS2426h	h210hSh	h112104	h110EJ1	1UJE	ql w
puPur	- 471	EE6J4E	1S1- 4S4	1S142E0	1SSJ1J-	SUE0	ql w
i erbAum	1hE71	1S- 2- - 06	061- 6Sh	E1JS64E	ES- E21S	1hUSh	ql w
i erbAum	1hE72	4S12622	4SSES20	- EJS2Jh	4SSS64h	SU44	ql w
i GsPAum	2S- 71	1E2h	2SJ4	2ShE	2S22	4U21	ql w
i GsPAum	2Sh71	4hh1	h1h1	hSh1	4E1J	6Uh4	ql w
i A	11J71	1ESJS	1E- J1	1E0J1	1E414	1UJ1	ql w
i A&snAum	4071	4h- 14	46h26	4h4EJ	4h00E	1U4-	ql w
MrsnAum	2- J71	JEJSJ	E- 2h1	E420h	E244h	2Uh-	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	hh011	h4JSJ	h- J04	h40EJ	1U6J	ql w
Y&erbAum	10271	1- 21h	1- J16	1- - 1h	1- 44E	2UJ E	ql w
Y&erbAum	10272	6- Jh	6- Jh	641J	6- E6	SUJ S	ql w
Y&erbAum	10671	E6Eh	E0- 0	1SS46	EJ26	1UEh	ql w
Y&erbAum	10672	1hh01	14J- 1	1h1J0	1h1E6	2U4-	ql w
Y&&Aum	JE71	1- 0614EJ	1S2E114h	12S2J002	12S201- J	14U4-	ql w
Y&&Aum	JE72	1- 16066	1- Sh1Jh	120E6- J	1- SSh- S	1U46	ql w
ZAnq	6672	4- 010	4- S0h	446SS	4- 0EJ	1U0h	ql w
ZAqonAum	ES71	h- - J6	h6JSJ	hhS4-	hhS0E	- U11	ql w
ZAqonAum	E171	124J1	1260-	12Eh6	120S-	1UJJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Cr Tu sb r:	8 N
5 Rr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r:	SN1q. FUMd

8 sp sb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cCcmb	2072	JS6101	J1S- 4S	JSJJS-	JS0- - N	SM12	dDw
qCTb nCh	12171	110J	12- -	1- 10	1242	JN0-	dDw
qpwr Ccd	0J72	1S4J	111-	11- E	1SEE	4M12	dDw
Bspcmb	1- J71	2JS412	2J222E	2J6410	2J- S1E	1M12	dDw
Bspcmb	1- 071	4- EJ- 1	44J626	44NJ- 6	444J64	1N8-	dDw
Br phPmb	E71	1E14	1E4E	1EJ6	1E- E	1M10	dDw
Bcwb mTG	2SE71	01SN10E	011N40E	666N0E0	6E6J1J2	- N0E	dDw
Bcwb mTG	2SE72	- - 2- 41E	- - S4S42	- 1E- 1S0	- 20- J2-	2M1J	dDw
Bpmb cCr	N171	64- J	0120	66- J	60- 2	JN2E	dDw
5 sob cmb	1SN71	N-	01	- -	62	41N04	dDw
5 sob cmb	1S671	- E06	44SE	- 0JE	4S4N	NM1N	dDw
5 sob cmb	11171	E1S	E66	N61	E12	JN0N	dDw
5 sPdcmb	4- 71	E1SJ1	E- 1N1	E- 0- 6	E26J6	1M-	dDw
5 sPdcmb	4471	16- N4JJ	16- S12E	16J2J2J	164S- 0S	SN0E	dDw
5 spenC	1271	- 1EN211	- 2- N6N0	- 26S- 2J	- 2- 24SN	SNEN	dDw
5 spenC	1272	- 0N24	- E11E	- N2N4	- N4SE	1N01	dDw
5 GPmpcCr	- J71	222121N-	26462144	2ES2JS62	2JNEE0E6	1- N2E	dDw
5 GPmpcCr	- J72	2140N-	2102E0	224J04	21NNNJ	2M12	dDw
5 Gpmb cmb	J272	- - N2S	- - 10J	- - - - E	- - 44J	1N8S	dDw
5 nesPT	JE72	2S16N	1E64S	1EE- 4	1EE14	1M-	dDw
5 nDDr p	6- 72	402JJ	46462	46E11	46N06	SNNJ	dDw
&hwDpnwcmb	1J671	0SE40	6E016	0262-	01SEJ	2N8J	dDw
&hwDpnwcmb	1J672	2E222	2NESN	2E1EE	2E11S	SN0S	dDw
Fpecmb	16471	JJJ42	JJNE-	J612S	JJNJ1	SM12	dDw
Fpecmb	16472	226N6	22S02	21NEN	2221E	1NN6	dDw
HsonPCcmb	16S71	JN24J	JE- 2J	JE606	JESN2	1N26	dDw
HsonPCcmb	16S72	206NE	200SE	20602	206ES	SN80	dDw
y nPb cmb	16J71	1S- 2JJ1N	1S10E606	E22N020	EE11- S0	6N81	dDw
y nPb cmb	16J72	42EJ2E6	414601S	41040- 1	42SJJ0E	1NNN	dDw
tCocmb	11J71	04S6E04	04J2E66	66E2E06	01N4- SJ	JNE-	dDw
tCocmb	11J72	E0JE22	EJ0S44	E4NE06	E6S640	1M44	dDw
tpnC	J472	1JN- 16J	1J0NN1-	1J6606-	1J06240	SM14	dDw
tpnC	J672	2N- 06E10	2N44- - S1	200E41S-	2N2S400-	1N20	dDw
tpnC	J072	6N2E20	6NS- 0S	664N20	606S41	1M4J	dDw
KphDTnC	N- 71	- - S	- 41	2N4	- 1N	EM10	dDw
Lr so	2S671	146ESE	1400JJ	1JS4E1	14N- NJ	1N26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP usb r:	SN1q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	11N401	12S142	121212	11EE42	1M1J	dDw
Lr so	2SN71	J0S64N	J044- E	J0E0SE	J04E- 2	SM0E	dDw
LdTGmb	671	26- NE- 4	260S21-	2422- 60	2J00101	JM24	dDw
9 sgOr wcmb	2472	- 2E20N	- 1E146	- 2J422	- 2461J	1MIN	dDw
9 sOgsOr wr	JJ72	- NJJ64	- N- - 4J	- 0NJ4N	- N24N6	SNE4	dDw
9 nPheor Cmb	E471	6J1N	664-	6000	6646	1NE4	dDw
9 nPheor Cmb	EJ71	20JS	2- JS	2JJE	2JJ-	0NM4	dDw
9 nPheor Cmb	E671	- 0JE	- EJ1	- N10	- N42	2M6	dDw
9 nPheor Cmb	E071	16SN	1660	1NSS	16E2	JNM1	dDw
9 nPheor Cmb	EN71	- EJ1	4142	4S60	4SJ-	2MIN	dDw
u r nohb cmb	1JS71	12410S	12JJ10	12J6- 1	12J1S6	SM0J	dDw
u r nohb cmb	1JS72	- NJN6	- 0121	- N110	- 0E41	1NE0	dDw
u cdkr P	6S72	11N6J	110- 2	11N- J	11N11	SMIE	dDw
8 GhwDGhpmw	- 172	1- E2	1J- -	14SS	1442	JM1	dDw
8 nTswwcmb	- E72	2SN- N1	21S- 20	211JJ4	21SSN0	SM06	dDw
. Ghocmb	1S- 71	0414E66	02100JN	6626N- N	0SN6J21	JM0E	dDw
. Ghocmb	1S- 72	- 2S- - 2N	- 24SE24	- 16J12S	- 2S- 124	1MIN	dDw
I dsCocmb	4J71	4N4N614	4000EE1	42EJ4S0	464S601	6MIE	dDw
I dsCocmb	4J72	14J6NS	14- NN-	14- 421	144- 2N	SMM-	dDw
I r P Cmb	N271	E6	NJ	14S	1S0	20M-	dDw
I r P Cmb	0072	16-	1J-	1J0	1JN	- M-	dDw
I r P Cmb	0N72	E0	E4	NN	E-	4NE-	dDw
I dcdnC	2N71	12021NJ-	12E20E- 4	1- 12E6S2	12E2646-	1MIN	dDw
I dPr p	1S071	0SN	1S2J	0E2	N42	1EMS	dDw
I dPr p	1SE71	0JS	02J	02J	0- -	1NE0	dDw
I nocmb	2- 72	- 20S4	- 2- 4J	- - 6- 1	- 2NE-	2NS2	dDw
I TpnCTcmb	N671	16J66E	16N2- N	16J664	166J24	SMIE	dDw
I TpnCTcmb	NN71	1J2JS6-	1J44NS1	1J14SE2	1J20ENJ	1NS2	dDw
I mPmp	- 471	206N60	201S- J	26JS4N	20SEN-	2MIN	dDw
Ar pecmb	1JE71	1S66J46-	1S4N- 44E	E- 2SN6N	1S1J6JE-	0MIN	dDw
Ar pecmb	1JE72	41J6- 66	41S2S06	- E0EJE2	4S0E- 4J	2M12	dDw
AGsPRmb	2S- 71	1610	10SS	1060	16EJ	4M44	dDw
AGsPRmb	2SJ71	4SSE	- N06	- N06	- E2S	1NE6	dDw
AdC	11N71	0N6E	NJ2N	N011	N- 6E	JM2E	dDw
AdSCmb	4071	11SSE0	1126E1	11- 11-	111E60	1M46	dDw
RpsCmb	2- N71	- 40N2	- J6- 4	- 464N	- JS21	1M-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r :	8 N
5 Rr CTI sb DP t&:	9 y SU4J	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r :	SN1q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	- N104	- 0J42	- 0422	- 001-	1N30	dDw
YTTr pe omb	10271	1N46-	1E24N	1E2EN	1ESS-	2M46	dDw
YTTr pe omb	10272	ES2S	N6- 1	N4- 6	N6E6	- M42	dDw
YTTr pe omb	10671	1- 24E	1- JE1	1- 104	1- - - N	1M60	dDw
YTTr pe omb	10672	160- E	16466	16NJJ	166N0	1M2S	dDw
YTTpomb	NE71	14J6S2N1	1426E- - 2	12EN2- S4	1- E- 0- S6	6N3-	dDw
YTTpomb	NE72	1410- J1	1- 0J46-	1- 2J11S	1- 02641	- M16	dDw
ZdCd	6672	2- 2JE	22N22	2- 2SE	2- SE0	1N34	dDw
ZqpdnComb	ES71	140JN	1J410	1J2JE	1J14J	2M20	dDw
ZqpdnComb	E171	- 426	- - 42	- 10J	- - 14	- NM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RFen&psmI Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	44y S2	4h- hS4	4h4661	4h26hh	SUh6	ql w
cn&AmonE	12171	2y 4	2 10	2 42	2 1	- U12	ql w
crwenAq	0h72	21S4	21h-	2212	21h0	2Uh1	ql w
BsrAm	1- h71	2- 1h 4	2- hhSh	22 214	2- 106	1Uh0	ql w
BsrAm	1- 071	412- h2	4ShSh-	4Sh04-	4S0016	SUyy	ql w
BerEHAm	y71	12 y	1- S2	12- 2	1204	2Uy1	ql w
BAmu&G	2Sy71	01 1S22	6y241 6	0S46 4	0ShS6 6	1U 2	ql w
BAmu&G	2Sy72	- - 41hy-	- S0 h2h	20 y0h-	- S6yyh0	Uyy	ql w
BromAne	171	60S2	0- 20	0S- h	0S21	4U46	ql w
RsOmAm	1S 71	2h	21-	10h	21h	1yUy	ql w
RsOmAm	1S671	4- 60	4S 4	4Sy2	41 1	- U6	ql w
RsOmAm	11171	2yy	2 h2	- 112	2y 0	4U0	ql w
RsRqAm	4- 71	h- h42	h- yy02	h- h S2	h- 0S60	SU40	ql w
RsRqAm	4471	yS- 010-	y 1 - h	yS21- hS	yS1- 4h2	SU2	ql w
Rsrbon	1271	61y - 6y	6- hh0h1	646661-	6- 4S24h	2U1-	ql w
Rsrbon	1272	0000-	00- 4h	0 142	000h-	SUh1	ql w
RGRorAne	- h71	2- - 02- S6	26hy2- 2h	2ySh6- 4	26- 4S- 26	1SU2	ql w
RGRorAne	- h72	21- 12	210y10	21 4- y	21602-	1U10	ql w
RGromAm	h272	- 21Sy	- 2644	- - 1 y	- 2640	1U6h	ql w
RobsR&	hy72	2y2- 0	2y0y1	2y64	2yhh	SUy0	ql w
RoI I er	6- 72	60y-	66 6S	66 S	60226	SUy2	ql w
t EwI rowAm	1h671	- 41h-	- h2 1	- - 6S	- 44- 1	2U1	ql w
t EwI rowAm	1h672	14h-	142 1	146h	144y2	1U-	ql w
. rbAm	16471	2y - 4	2y660	2 4 y	2y- - S	2UhS	ql w
. rbAm	16472	1110h	11h- h	1166h	114h	2U22	ql w
HsOoRnAm	16S71	- 24yy	- 1 - y	- 210-	- 210S	1US-	ql w
HsOoRnAm	16S72	1h2Sh	1hS6y	1h2 6	1h1 0	SU02	ql w
9 oRnAm	16h71	1S1y64S0	y 6h0 S	1SS111- 4	1SS2444S	1U6h	ql w
9 oRnAm	16h72	4SySyS0	- y h- 42	- h- 664	- 0Sy66	0U6S	ql w
DnOAm	11h71	0261426	02y- ySy	02ShSy0	02h- 400	SU62	ql w
DnOAm	11h72	y4h 40	yh1- 0	S4222	10- h	U14	ql w
Don	h472	2Sy- 04	214 2 6	2Sy- 6- 6	2111 yS	1U4y	ql w
Don	h672	- 01hy01-	- 0- 61y4S	- yS00S6y	- 0 66241	2U0	ql w
Don	h072	S61	y1241-	ySh- 4	yS1y41	1Uy	ql w
KrEI &on	- 71	204	- SS	20S	2 1	hU1	ql w
LesO	2S671	1yhh2	1y4- 00	1y4- 06	1y406S	SU4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	16111-	161404	16S61	161S6y	SU20	ql w
LesO	2S 71	061y0y	0h40- h	04 y6-	0hh226	SU 6	ql w
LA&GAum	671	2h00y01	2h 4 6	2h6hy2S	2h062h-	SU0	ql w
5 sgnewAum	2472	1h4yy66	1h266- 1	1h6- 1Sh	1h46h60	1U1y	ql w
5 sngsnewe	hh72	- 1yS4S	- 2264h	- 24y 0	- 22224	SUy-	ql w
5 oPEbOenum	y471	4h	y4h	6- 6	Sy	1U0y	ql w
5 oPEbOenum	yh71	h01S	h1y-	h- S1	h4S1	hUSh	ql w
5 oPEbOenum	y671	0S- h	0120	601S	6yh	- U1h	ql w
5 oPEbOenum	y071	- 142	- S42	- 1 4	- 12-	2U-	ql w
5 oPEbOenum	y 71	y112	y4 0	ySh-	y210	2Uhh	ql w
NeoOEmAum	1hS71	h4hy	h6164	hh h6	hhh- y	1U4y	ql w
NeoOEmAum	1hS72	1hy6S	16- S0	16- S-	161yS	1U2-	ql w
NAqkeP	6S72	2Sy 6	2S hh	2S- 4	2S0- S	1U62	ql w
8GowI Goruw	- 172	40 4	4 1	40- 4	400y	SU	ql w
8os&swwAum	- y72	- SS026	- S0 - 6	- S42 S	- S42 1	1U10	ql w
CGoOAum	1S- 71	02yhy26	0Sy- y61	0SyS2 S	016SSh6	1U64	ql w
CGoOAum	1S- 72	- 10hyh4	- S40 - 4	201y- 11	2y 1S- -	0UyS	ql w
pqsnOAum	4h71	40S- y02	4h 210y	40ShS- y	466- 0- S	1Uh1	ql w
pqsnOAum	4h72	141022	1- h1y2	11yh- y	1- 21h1	U6-	ql w
pefenAum	271	116	11y	1Sy	11h	4Uh4	ql w
pefenAum	0072	h0	S	h0	64	2SUyS	ql w
pefenAum	0 72	6S	0-	06	0S	12U21	ql w
pAAqon	2 71	1- Sy14yh	1- S06y 6	12y6 620	1- S4h0S-	SUh1	ql w
pAPer	1S071	22y2	2hSy	22hy	2- h-	hU00	ql w
pAPer	1Sy71	22y2	2- 2h	24Sy	2- 42	2Uh0	ql w
poOAum	2- 72	460hy	401 6	4044h	401- S	SU0-	ql w
p&on&Aum	671	10Sh1	166142	16 S40	16 2- 6	1US	ql w
p&on&Aum	71	1h40216	1h60- Sh	1h261Sh	1h46 0h	1U-	ql w
pufPur	- 471	- SSS1S	- S- - 6	- Sh4h2	- S2y4y	SUy1	ql w
i erbAum	1hy71	1Sh1y-	1S1- - 6S1	1SSy1- h2	1S24 114	2US	ql w
i erbAum	1hy72	- y 6y46	- 6 0	- 40h6y4	- 00010-	0USy	ql w
i GsPAum	2S- 71	2S2h	22 4	212h	214h	6USS0	ql w
i GsPAum	2Sh71	4yhy	4 h1	hSS1	4y- 0	1Uh0	ql w
i An	11 71	44S1	44- 4	4126	4- 2S	- Uy2	ql w
i A&snAum	4071	60- 0h	6 Sy6	6hh42	60SS4	1Uy0	ql w
MrsnAum	2- 71	4 260	4y2hh	hSyh-	4y4y2	2U04	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	5 9 SF46	t Ra&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	h226y	h241y	h100S	h21h2	SU6h	ql w
Y&erbAum	10271	4h	hyh	h61	660	1U0y	ql w
Y&erbAum	10272	- 010	4Sh6	4- 2-	4S- 2	0Uh-	ql w
Y&erbAum	10671	6y44	6yh2	0S- h	6y00	SU0-	ql w
Y&erbAum	10672	1- 46-	12 6	12S61	120y0	hUhS	ql w
Y&&Aum	y71	1- - 6 4- 1	1- 61 146	1- - - h- 2-	1- 44S6- -	1U1h	ql w
Y&&Aum	y72	12 2Sy	12- 1yy	1Sy6- 4S	12Shh16	U1	ql w
ZAnq	6672	h116h	h1 -	h1102	h1- y2	SU0h	ql w
ZAqonAum	yS71	140hS	1h6- 4	14h16	14y60	- Uy4	ql w
ZAqonAum	y171	- 406	- 426	- SSy	- - S-	0U06	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
LwrJDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
d8be qFdpe	20:2	2S7u070	1yu077y	1y 76S6	1yy y04	U1S	Qt l
dFiqe . Fh	121:1	27y0066	26026S1	264S4 4	26 6y 4	1U42	Qt l
dll pFqO	07:2	6771u	64627	62676	64260	2U2u	Qt l
Bwldpe	1 7:1	2uu2646	2y62600	2yy1u26	2y47016	1Uy2	Qt l
Bwldpe	1 0:1	7S 0u70	7106266	7Sy760	71S 266	1U 6	Qt l
Bplh8Bpe	y:1	6S7 2y	62112y	61y116	6171y1	1U4S	Qt l
Bdqe biE	2Sy:1	61 6606	62yu1	6 216S6	62721 u	1U61	Qt l
Bdqe biE	2Sy:2	2ySy600	2u7u27S	2u10460	2u610yu	1U61	Qt l
Bl. e qFp	u1:1	4S 4	4S60	y 4	4S12	1U0	Qt l
3 wne dpe	1Su:1	7Suu1	72462	7 u06	724S6	2Uu6	Qt l
3 wne dpe	1S6:1	0427S	0474	0 u14	042S	SU4y	Qt l
3 wne dpe	111:1	61Sy27	6270 y	6210 S	61y467	1U24	Qt l
3 w8Qdpe	4 :1	007464	uS0746	uS0y67	0y6yy2	SU4y	Qt l
3 w8Qdpe	44:1	7uy404S2	6SS2002	612112u6	6SS621 0	1Uuy	Qt l
3 wlr . F	12:1	26 y716	20S 160	2uSy647	201044	U16	Qt l
3 wlr . F	12:2	0624	07u2	6014	0 S6	1U u	Qt l
3 E8 lqFp	7:1	16y 10	16ySu71	164 4y6	1607u4S	1U60	Qt l
3 E8 lqFp	7:2	1116	1S421	yu74	1S40y	6U20	Qt l
3 El. e dpe	72:2	0S6S12	6y076S	602174	6y1ySy	2U77	Qt l
3 . r w8	7y:2	1262Su4	124u10u	12S02uy	12 y1u4	2U S	Qt l
3 . t t pl	6 :2	1S074124	1S00SySy	1S7 S676	1S6u722y	1U26	Qt l
Thl t l. l dpe	176:1	027	07S	67u	011	6U66	Qt l
Thl t l. l dpe	176:2	2	SS	20	10	4U7y	Qt l
Glr dpe	164:1	2SS	17u	1u	1u1	11U62	Qt l
Glr dpe	164:2	6	1SS	0S	0u	27U1	Qt l
Hwn. 8qFdpe	16S:1	u	0y2	042	0uy	7Uu2	Qt l
Hwn. 8qFdpe	16S:2	44	4 0	400	472	4U04	Qt l
K. 8e dpe	167:1	uy2S02u	y 621y0	y2u4746	y1uy170	2U76	Qt l
K. 8e dpe	167:2	y44224	y 0S2S	u6y7S0	y16y10	1US7	Qt l
8Fndpe	117:1	6 y4u	67y6y72	6 71406	642y S4	2U26	Qt l
8Fndpe	117:2	u70 60	u62uyS	u S uS	u7S212	2US7	Qt l
8. F	74:2	u266S0u	u1uy410	0y1y24S	u124y12	2U24	Qt l
8. F	76:2	17SSyy27	1712SS126	144u6y 64	14u022y14	2U20	Qt l
8. F	70:2	ySSu2S	u774S4	74u6u0	06u S4	7USu	Qt l
glht i. F	u :1	21y	27y	240	242	uU7	Qt l
Lpwn	2S6:1	124Su6 6	12772064	1201u712	1277yy01	1U2	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
Lpwn	2S0:1	1Su 04 y	1Syu144S	11126Suy	1Syu1676	1U 1	Ol
Lpwn	2Su:1	4yy2y 21	71 06046	7100 6 6	71S26760	1UyS	Ol
LqiEdpe	6:1	2 S2y76	22uu70u	2 17u2S	2 S2471	SU7y	Ol
5 wkFpl dpe	24:2	2u 767u0	2uS2yS11	202 1S04	20u02224	2USu	Ol
5 wFkwFpl p	77:2	uS4762	0u7671	6y u6S	061 7u	1U70	Ol
5 . 8hr npFbe	y4:1	y72 77u	y6yS26y	y76u06u	y7y41yu	SUyS	Ol
5 . 8hr npFbe	y7:1	1 u4112S	141u1721	1422 17S	14Su1y S	1U4y	Ol
5 . 8hr npFbe	y6:1	14y441y7	17027614	17767uy6	17411yS1	2U6u	Ol
5 . 8hr npFbe	y0:1	u7u4210	uu61 uy	u040702	u0 1S7y	1U6S	Ol
5 . 8hr npFbe	yu:1	227S10u2	2 S2Su46	22u02S 4	220yu221	1U10	Ol
mp. nhe dpe	17S:1	220	2S	20	20	10US0	Ol
mp. nhe dpe	17S:2	7S	S	7	44	2uUy	Ol
mqOvp8	6S:2	u440	y12u	S122	7uyy	1U4y	Ol
NE. l t E. lbl	1:2	1y6S7	1yS1	1uu46	1y177	2USu	Ol
N. iwl l dpe	y:2	u66772u	u02u167	u 6 26y	u7u7674	2U20	Ol
9 E. ndpe	1S :1	612S 17	610u7Su	621027u	6102S20	SU0y	Ol
9 E. ndpe	1S :2	2u16y74	2uSy77S	20 S477	20u767	1U02	Ol
DOwFndpe	47:1	4SS0066	4S0y 2y	416y1 0	4Su7411	1Uyu	Ol
DOwFndpe	47:2	1 1441	1 1 07	12uS12	1 S206	1U71	Ol
Dp8pFdpe	u2:1	44yS	467SS	466S0	46SS	2USu	Ol
Dp8pFdpe	00:2	1 7	1 7S	1 70	1 7	SU27	Ol
Dp8pFdpe	0u:2	4600	44y2	44S6	4727	US6	Ol
Dqq8Q F	2u:1	207SSyS4	200u 4u	2uS0y7u	200u0y47	1US4	Ol
Dq8pl	1S0:1	77447	77S 1	427201	0u7u2	1U2S	Ol
Dq8pl	1Sy:1	10 u17	1y6464	266026	212 7	1U71	Ol
D. ndpe	2 :2	7SuSy2y0	4y6u0721	4u42y 7	4y642S71	2U4S	Ol
Dil. Fidpe	u6:1	1uy64744	1y1740 2	1y41Syu	1y10607	1U10	Ol
Dil. Fidpe	uu:1	16 202y4y	166774u62	16 4yu116	164441y06	1U11	Ol
Db8Vl	4:1	74u 76	742y6y	744 47	74722	SU71	Ol
cplr dpe	17y:1	y2u7 1S	y7uSS7	y6y74 S	y72S264	2U22	Ol
cplr dpe	17y:2	ySS S2	u64S0u	60 6 0	u12602	U1y	Ol
cEw8dpe	2S :1	S 1410	S26yuy	S276S	S2uSS	SU1S	Ol
cEw8dpe	2S7:1	01414 S	01 67S6	0264740	01uSu2u	1US1	Ol
cqF	11u:1	2S0u6 0	224u471	21u 02y	210S20	Uy7	Ol
cqwFdpe	40:1	60yS04	07u1y0	007026	0 0667	1UUu	Ol
RlwFdpe	2 u:1	1S60 1y7	1Sy 70u6	11 677S0	1Syy14y6	U1u	Ol

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Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
- wFwndpe	71:2	740070	74 S7y	720217	7 y 44	2U8SS	Qt l
Yiiplr dpe	102:1	1y2	2SS	210	2S	6U2u	Qt l
Yiiplr dpe	102:2	110	0u	1SS	yu	1yUuu	Qt l
Yiiplr dpe	106:1	14216	1 uy1	14S41	14S7S	1U16	Qt l
Yiiplr dpe	106:2	17001	17u67	17001	17uS2	SU 7	Qt l
Yiildpe	uy:1	11u SS7y	12S6 S64	1160204	11u772uy	1U66	Qt l
Yiildpe	uy:2	1160u10	1162077	11420u6	11700u6	1U14	Qt l
ZqFO	66:2	1272u14	12 1u71	12S4y S	122yu67	1Uy7	Qt l
ZqlQ Fdpe	yS:1	4442u07	46u01 0	4701666	4760226	2U6u	Qt l
ZqlQ Fdpe	y1:1	y6 uu7	yy 7S0	yu0yyu	yu10y0	1U6S	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8 spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
qPmb c omb	20 2	101	10y	16S	10S	-U--	dDw
q. Tdb C. h	121 1	1SN7	11-N	17y2	1211	17U2N	dDw
qpwr . cd	0- 2	4	-	4	4	17U72	dDw
Bspomb	17- 1	22-	2SN	210	210	7UN-	dDw
Bspomb	170 1	742	4SS	-2-	422	22U1N	dDw
Br phPmb	y 1	12y	11S	122	12S	0Uy7	dDw
Bcvb mTE	2Sy 1	6y17-1-	662SN1-	66yS27N	6041-27	2U20	dDw
Bcvb mTE	2Sy 2	71NNN2y	71NN10y	72N27NS	721y0y6	1U6N	dDw
BpCb c r	N1 1	76-y	4142	4S74	7y4-	6U47	dDw
3 sob omb	1SN 1	7N	N	17	1y	N1U14	dDw
3 sob omb	1S6 1	7--y	7426	7726	7470	7U41	dDw
3 sob omb	111 1	4-y	4N7	424	4--	6U-S	dDw
3 sPdomb	47 1	--S	4y6	4-y	-S2	yU14	dDw
3 sPdomb	44 1	76N46	7-171	74414	7-464	7U-2	dDw
3 speC.	12 1	274--44	277S6Sy	2714220	277S126	SU60	dDw
3 speC.	12 2	200S2	2006N	2NS1y	20N7S	SU6S	dDw
3 EPOpc r	7- 1	14142Ny	17-S100	17-1N4y	17021S-	2U66	dDw
3 EPOpc r	7- 2	N76y	NNN6	N761	N-7y	7U-2	dDw
3 EpCb omb	-2 2	1S4S	11S7	1170	1Sy7	4U4y	dDw
3 CesFT	-y 2	1S7	-7	6S	02	70U-y	dDw
3 CDDr p	67 2	10-7	1077	1660	101N	2U64	dDw
&hwDpOwomb	1-6 1	N	S	S	7	107U21	dDw
&hwDpOwomb	1-6 2	S	S	7	1	107U21	dDw
Fpeomb	164 1	60	77	-S	-S	77U74	dDw
Fpeomb	164 2	10	10	10	10	SUSS	dDw
GsoCPe omb	16S 1	N7	1SN	N7	y2	1-U04	dDw
GsoCPe omb	16S 2	1S0	110	y7	1S6	11USy	dDw
HCPb omb	16- 1	yN72-10	y21y--0	y4707NN	y4y64N0	7U20	dDw
HCPb omb	16- 2	4S000y2	4SyN4S0	41S1476	4Sy2-4-	SU71	dDw
t. oomb	11- 1	0S41SNS	6NS4260	6NSySN4	6NN4N1S	1Uy0	dDw
t. oomb	11- 2	y2011-	y7-4N2	y7Sy12	y7110S	SU4-	dDw
tpC.	-4 2	60N	-44	044	6-6	1-U-7	dDw
tpC.	-6 2	N-0-	02-2	00y1	0N07	NU4-	dDw
tpC.	-0 2	7S6	261	2-S	202	1SUNS	dDw
KphDTC.	N7 1	2-2	2S2	2--	270	12U-1	dDw
Lr so	2S6 1	1N11	1N74	164-	1067	-UN6	dDw

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LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tusb r:J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r:qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdPP:usb r:J	SN-3 3 BFUb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Lr so	2S0 1	10-6	1-02	1611	1646	-UN0	dDw
Lr so	2SN 1	N10y	0462	01yS	061S	6U01	dDw
LdEomb	6 1	2-147yS	276N2-y	27y672-	2426724	7U2S	dDw
5 sg. r womb	24 2	ySN	Ny2	y0-	y2-	4U06	dDw
5 s. gs. r wr	- - 2	2S7	1yS	21S	2S1	-US6	dDw
5 OPheor . mb	y4 1	1777	122-	112-	122N	NU4y	dDw
5 OPheor . mb	y- 1	1y-S	1010	1-SS	1022	17US0	dDw
5 OPheor . mb	y6 1	222-	1y74	100-	1y0N	11U-4	dDw
5 OPheor . mb	y0 1	122-	1Sy2	y-N	1Sy2	12U21	dDw
5 OPheor . mb	yN 1	7726	2610	2474	20y2	16UN0	dDw
u r Cohb omb	1-S 1	17	17	17	17	SUSS	dDw
u r Cohb omb	1-S 2	7	S	7	2	N6U6S	dDw
u odkr P	6S 2	6S	-7	y0	0S	77U74	dDw
8 EOwDEOpmw	71 2	1N7	142	1-N	161	17US2	dDw
8 CTswwomb	7y 2	114S-	111S-	12S40	11-1y	4U1N	dDw
9 EOomb	1S7 1	0S70S-S	6676yN0	664y22-	6004421	7U76	dDw
9 EOomb	1S7 2	72NN0y-	7S04N27	71421S7	716N-04	7U4-	dDw
I ds. oomb	4- 1	4-1y66N	41N-127	4716446	474S412	7UNN	dDw
I ds. oomb	4- 2	17-N-2	1706-6	17NSN7	1701y0	SUN6	dDw
I r PP. omb	N2 1	4	24	7	6	266U26	dDw
I r PP. omb	00 2	S	S	7	1	107U21	dDw
I r PP. omb	0N 2	11	0	y	y	22U22	dDw
I dPdC.	2N 1	1y7101	1N76S6	1N2y04	1N6-N4	7US6	dDw
I dPr p	1S0 1	70-	7y2	7SN	7-N	12U71	dDw
I dPr p	1Sy 1	742	242	2-N	2N1	1yU1S	dDw
I Coomb	27 2	7704S	72021	777N1	772NS	1U--	dDw
I TpC. Tomb	N6 1	2SN4	1NSy	1-10	1NS7	1-U02	dDw
I TpC. Tomb	NN 1	14S-4	11SSy	11216	12Sy7	14US0	dDw
I mPmp	74 1	2NyN-6	2N1y-6	2N4710	2N-706	1U42	dDw
Ar peomb	1-y 1	yN26746	y-S7y-1	y4S722-	y-00N41	2U71	dDw
Ar peomb	1-y 2	7y6y-y2	7yS1724	4S2S741	7y670-2	1U-1	dDw
AEs PPomb	2S7 1	1742	1242	112-	1276	NU00	dDw
AEs PPomb	2S- 1	7210	7S2-	2ySy	7S-S	-U1S	dDw
Ac	11N 1	1242	1277	1S-S	110-	yU22	dDw
AdS. omb	40 1	4-S	410	-SS	4-6	yU21	dDw
Rps. omb	27N 1	N0-	042	4y2	0S7	20U6y	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Vs. sodmb	- 1 2	27	2S	20	27	14U2y	dDw
YTTr pedmb	102 1	- S	2-	60	40	44U41	dDw
YTTr pedmb	102 2	11	11	22	1-	47U7S	dDw
YTTr pedmb	106 1	11SS	1177	1177	1122	1U01	dDw
YTTr pedmb	106 2	1S666	1S67N	1SN20	1S01S	SUy-	dDw
YTTpdmb	Ny 1	126SNyNy	12SNS646	1227S041	127S60y2	2U21	dDw
YTTpdmb	Ny 2	122yNS-	122- 2- 2	122NS41	12206yy	SU1y	dDw
Zc d	66 2	1- S	1yS	210	1N6	1NUSN	dDw
ZqpdC. dmb	yS 1	y77	62-	N- S	NS7	1yUN0	dDw
ZqpdC. dmb	y1 1	1- N	1SN	1- N	142	2SU7N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	TwiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	aa12a6	aa- a1	a4041S	aaS02u	SRa6	CI I
d. iqe C. E	12171	- 1- 4	- 4S	- 1S	- 210	aR1u	CI I
dIl p. qO	0a72	- SS4	2 ua	- S12	- SSS	SR46	CI I
Bwldpe	1- a71	- 122aS	- 14- 64	- 21- a2	- 1a u	1Ra1	CI I
Bwldpe	1- 071	aa0- 16	aa 4- 6	a64aau	a6S4- 6	SR66	CI I
BplE8dpe	71	1664	16SS	16S2	1622	2R2-	CI I
Bdqe biG	2S 71	6044u6a	6uSSu	6u2aa64	60 S44-	SR61	CI I
Bdqe biG	2S 72	- 102 42	- 20- 6u0	- 2- - a1a	- 22601a	1Ra0	CI I
BICe q p	u171	0661	0 11	0400	06u-	2Ru-	CI I
9 wne dpe	1Su71	201	10	22	226	2SR20	CI I
9 wne dpe	1S671	4S06	41S	4S06	4Su0	SR40	CI I
9 wne dpe	11171	2u00	2 - 6	2 a2	2 21	1R a	CI I
9 w8Cdpe	4- 71	u00 16	u0062S	u6ua0	u040Sa	SR61	CI I
9 w8Cdpe	4471	14611a6	14 S66- 2	14u0- 266	140 01aa	1RS	CI I
9 wIr C.	1271	- a2- 42u	- 6- a6Su	- 010- 04	- 62a40S	2R6	CI I
9 wIr C.	1272	4aSa-	4a- 2S	4aa21	4a2 u	SRa2	CI I
9 G8CIq p	- a71	1S022116	1- u26- 46	162uu20u	1- 612240	2SR4	CI I
9 G8CIq p	- a72	1442-	14 S02	1aaS1a	14 442	- R61	CI I
9 GICe dpe	a272	- 4a	- 41u1	- 4201	- 4- aS	SR64	CI I
9 Cr w8	a 72	- u6 -	- u - -	- Sa0	- uu 4	SR4u	CI I
9 Ct t pI	6- 72	024a4	01 41	0112S	01u- u	SR 4	CI I
TEI t ICI dpe	1a671	412- 1	41- 6a	41- 4S	41- 12	SR10	CI I
TEI t ICI dpe	1a672	10022	10u22	10- 41	1062u	1R44	CI I
UIr dpe	16471	- a140	- 4Sa-	- 41S-	- 44- 4	1R0	CI I
UIr dpe	16472	1- 6S0	14- 14	1- 1	1- 01	2Ra-	CI I
HwnC8q dpe	16S71	- u- - 1	- u004	- u2- 1	- u44a	SR0a	CI I
HwnC8q dpe	16S72	10a12	10002	1u1a	10u14	1Ru-	CI I
h C8e dpe	16a71	6 2u1	- 101S	61- uS	04u- 24	1R6	CI I
h C8e dpe	16a72	416aS1a	41a 201	414S062	41aaS16	SR 1	CI I
& ndpe	11a71	606S- SS	6 S6S0S	6u2004S	6u- 1- 0S	1RS0	CI I
& ndpe	11a72	4S a	4S 26	aa 00	4a 66	SR 2	CI I
&C.	a472	2aS2S01	24aaaua	2446 Su	246u1uu	1R2S	CI I
&C.	a672	46S- 60a1	4- 1402	444aS6Su	44u26200	2R	CI I
&C.	a072	1S04110	1Sa11 1	1Sa 0S	1S61602	1RS	CI I
KIEt iC.	u- 71	2a4	- 11	2ua	2u-	1SR16	CI I
Lpwn	2S671	2266a-	222u- 6	22- 0a4	224414	SRu	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwOICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	T wiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1u- 6a	1u- 12-	1u6S 6	1u4- a	SRu-	Qt I
Lpwn	2Su71	u6 1Su	u62- 40	u04a 1	u6u6u2	SR01	Qt I
LqiGdpe	671	2aa2012	2a22 14	24- 24u	2aS4 au	2R a	Qt I
y wg. pl dpe	2472	1aa- a66	1au 1u6	1aa2400	1a6aS06	1R -	Qt I
y w. gw. pl p	aa72	- - u1S	- u 001	- S0aS	- 1444	SRa4	Qt I
y C8Er np. be	471	1S601	1S- 01	1S6S4	1Sa4	1R4	Qt I
y C8Er np. be	a71	u011	0 4	uS2u	u244	4R 1	Qt I
y C8Er np. be	671	1S- 6-	u0	10S	uS4	6R12	Qt I
y C8Er np. be	071	a- 1S	a226	4ua1	a12	4R06	Qt I
y C8Er np. be	u71	144aS	1- 21a	1204u	1- 401	6Ra-	Qt I
mpOnEe dpe	1aS71	64aa6	6a4	6aS10	6aS24	SR0-	Qt I
mpOnEe dpe	1aS72	1 601	2S- 46	2SS62	2SS26	1R6	Qt I
mqOkp8	6S72	26S60	2a0aS	261- 0	2a ua	SR0	Qt I
NGOI t GOIbI	- 172	2 2	2 SS	2 SS	2 - 1	1Ru1	Qt I
NOiwI dpe	- 72	240- 40	24642a	2462- 1	24666u	SR24	Qt I
F GOndpe	1S- 71	66011ua	6u6u- au	60- 01u-	60au Su	1R4u	Qt I
F GOndpe	1S- 72	- Su a6S	- 1u06u1	- 210 Su	- 16aSaS	2R12	Qt I
DOw. ndpe	4a71	444a0Sa	4a1u00S	446- ua2	44061S	SRua	Qt I
DOw. ndpe	4a72	1446- u	14142u	14- 261	14- 1S	1R1-	Qt I
Dp8p. dpe	u271	1a0	6	124	126	24Ru	Qt I
Dp8p. dpe	0072	1S0	uS	S	2	14R61	Qt I
Dp8p. dpe	0u72	64	0u	6	0S	1SR5	Qt I
Dq8qC.	2u71	1- 6 4a-	1- a404a6	1- a2u01-	1- a 1u04	SR6	Qt I
Dq8vpI	1S071	2 60	2uS	2u10	2u64	- R1	Qt I
Dq8vpI	1S 71	26- 4	2610	202a	26a	2R1	Qt I
DOndpe	2- 72	0 2a0	0 - aS	0611a	0u24S	2R a	Qt I
DiIC. idpe	u671	2aS016	2a1062	2a1 10	2a146a	SR26	Qt I
DiIC. idpe	uu71	226S4 1	22 a000	22 - 41S	22u- 226	SRu6	Qt I
Db8bI	- 471	2 4 20	2 026-	2 - 2S	2 a1- -	SR6	Qt I
cpIr dpe	1a 71	6ua00	1SS2 14S	00u- u6	2a- 6u	1R 2	Qt I
cpIr dpe	1a 72	4S4u1- -	4S1- 6 u	4S6006	4S4- 2SS	SR6u	Qt I
cGw8dpe	2S- 71	- a42	- aS1	- 4S	- 4u4	1R 6	Qt I
cGw8dpe	2Sa71	Sa-	u - 0	u64a	uu0u	2R 0	Qt I
cq	11u71	46S	4026	4aS1	4612	2R44	Qt I
cqiw. dpe	4071	44 1-	46S 1	4a- 4S	4a44u	1R 1	Qt I
5 Iw. dpe	2- u71	a64S	aa- 46	aa- 1-	aa6u	1R12	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwOICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	T wiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	a172	64a14	6a- 12	6- - S	644Sa	1RaS	Qt l
Yiiplr dpe	10271	u0	- 0	62S	u4u	2RS2	Qt l
Yiiplr dpe	10272	a22-	46S6	46a6	4u2	0R1S	Qt l
Yiiplr dpe	10671	066	0044	0S 4	0aS2	4R04	Qt l
Yiiplr dpe	10672	142Su	14141	144uS	14206	1R26	Qt l
Yiildpe	u 71	126uau14	12 ua61S	1- 24SuS2	12 0S042	2R14	Qt l
Yiildpe	u 72	12 26u4	1- u62uS	1- S- 20-	1- 20412	- Ru6	Qt l
Zq O	6672	4a 2u	4a00S	4a2- a	4a644	SRuS	Qt l
ZdqOC. dpe	S71	1a2a	1020u	16600	164S4	6R 2	Qt l
ZdqOC. dpe	171	- 210	- 6u4	- a42	- 4u1	6Ruu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	60S- - y	601806	6616h2	660h68	SU82	ql s
c n&AmonE	12171	6y68	606h	6- h-	6y00	2U8y	ql s
c rsenAq	0y72	y62S	yy8-	y614	y6Sy	SUJy	ql s
BarAum	1- y71	y8h04y	yhyy1-	yh841S	yh4yy6	SU04	ql s
BarAum	1- 071	1SySy22	1S4h140	1Sy- 004	1Sy1148	SU2-	ql s
BerEIAum	h71	2hS6	28yS	200h	284y	2U2y	ql s
BAsmu&G	2Sh71	0S84680	01y4y- h	68y2001	0S- S66y	2U2y	ql s
BAsmu&G	2Sh72	- 2hh640	- 206hSS	- 2- 64h2	- 201S1-	SUh8	ql s
BromAne	8171	6hh4	0- y2	8S61	046h	0U20	ql s
RaOmAum	1S871	4y4	- - -	- 0h	- 8h	1yU6h	ql s
RaOmAum	1S671	4484	4- S1	4484	442-	2UJ h	ql s
RaOmAum	11171	42y2	4668	4yyy	44h2	4U0h	ql s
RalqAum	4- 71	8S6S- -	82yh21	821yh0	8108yS	1U28	ql s
RalqAum	4471	1- 8SS2h2	14S- yS68	1- 8- yh86	1- 8hS44h	SUh1	ql s
Rarbon	1271	0S868y2	04y- 2h-	0y- 0h- S	0- yh- y8	- U26	ql s
Rarbon	1272	hS8- h	hSy- 0	hS- 8y	hSy80	SU2y	ql s
RGlorAne	- y71	18S111h0	21h04- S0	241- 824-	21- 04y82	14Uy4	ql s
RGlorAne	- y72	18y4h4	1h1y0-	1hy0hy	1hShy4	2U01	ql s
RGromAum	y272	4068h	48Sy4	466- 2	404y8	1Uy6	ql s
Robal&	yh72	- h0hh	4S- h4	4SS1S	4SS60	SU0y	ql s
RoI I er	6- 72	1y004h	1y8S1y	1y4- 1h	1y66hy	1UJ 2	ql s
t EsI rosAum	1y671	648- 4	6y60S	64- 64	64hy6	1US2	ql s
t EsI rosAum	1y672	26h40	26h11	26S6h	26642	1U86	ql s
. rbAum	16471	yS1S-	y1861	y1S4h	y1SS4	1U02	ql s
. rbAum	16472	2S06-	2S4S2	2SS8y	2S410	1U66	ql s
HaOolAnAum	16S71	y6yh6	y6h8h	y6S6h	y6yy1	SU82	ql s
HaOolAnAum	16S72	266- 0	20- 41	2641-	260h0	1U81	ql s
9 olmAum	16y71	1S1S41hy	hhh1- 20	h82- h0h	hh0- 160	1U41	ql s
9 olmAum	16y72	42y8y18	42422S8	41- 0y2h	42120y2	1Uy6	ql s
DnOAum	11y71	0268101	01y8280	0116S42	018S8- 4	1USh	ql s
DnOAum	11y72	hy44hy	h4- h8S	h466- 6	h48- 0S	SUy8	ql s
Don	y472	24- - 1hS	24066y1	242h006	2446y- h	1US0	ql s
Don	y672	44S2h112	4- y4- - 88	4- 4840h-	4- 68y064	SU68	ql s
Don	y072	1S4yS4h	1S4yh1h	1S4h8S1	1S46h2-	SU24	ql s
KrEI &on	8- 71	- - y	- yS	2hh	- 28	8US-	ql s
LeaO	2S671	22y2066	221yS- -	21hhS68	222228h	1U24	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	180yh21	1824- 1-	10h2h06	18- 1S0S	2U2h	ql s
LeaO	2S871	80S02- 8	86- - h10	8yS48h-	861y- 4h	1U1h	ql s
LA&GAum	671	2y168y2	2y0y41y	2y4hSS8	2y40Sh1	1U1y	ql s
5 agnesAum	2472	11- 068S	114- 1- 0	11y6- - 4	114y010	SU34	ql s
5 anganese	yy72	h46048	hyyhS0	h44- 86	h4hS14	SU64	ql s
5 olEbOenum	h471	1606h	10hhy	1826-	10606	4Uy1	ql s
5 olEbOenum	hy71	0y6h	0h86	0- h4	06yS	- Uh8	ql s
5 olEbOenum	h671	11S- 8	1Sh1-	h6y4	1Sy- y	0U20	ql s
5 olEbOenum	h071	48Sh	484-	4hyh	480S	1U62	ql s
5 olEbOenum	h871	12yy6	12- h8	12y48	12ySS	SU01	ql s
NeoOEmAum	1yS71	1S6446	1Sh42h	1S8126	1S8SSS	1U-8	ql s
NeoOEmAum	1yS72	- 220h	- 261S	- 2h- S	- 26S6	1USS	ql s
NAqkel	6S72	22- S4	221h1	22444	22- 1-	SUy0	ql s
PGosI Gorus	- 172	110h0	11040	11- Sy	11616	2U-	ql s
Po&assAum	- h72	6h6- 8y	6h8040	0SyS16	0SSS4h	SU64	ql s
CGoOAum	1S- 71	0S2661S	02282- -	0S26182	0Sh- 60y	1U64	ql s
CGoOAum	1S- 72	- 210681	- 166040	- 102- 1-	- 18yy81	SU38	ql s
pqanOAum	4y71	468hyy8	4yyh- 02	46h- yy8	46404h6	1U64	ql s
pqanOAum	4y72	14- - h1	14- - S0	141S0y	142yh1	SUh2	ql s
pelenAum	8271	1- 2	h1	160	1- S	2hU20	ql s
pelenAum	0072	h-	h0	110	1S2	12U-y	ql s
pelenAum	0872	1SS	81	h4	h2	1SUyh	ql s
pAAqon	2871	144188y4	14484214	14y0- - 08	144h214h	SUy4	ql s
pAver	1S071	0686	0000	0844	006h	1USS2	ql s
pAver	1Sh71	6h6S	021h	686h	0S16	2Uyh	ql s
poOAum	2- 72	602h0	6y04h	641h1	6y046	2U-6	ql s
p&on&Aum	8671	yh112-	yh8222	yh- 2S4	yh418-	SU61	ql s
p&on&Aum	8871	y4S4h11	y- y6248	y264426	y- 41862	1U-4	ql s
pulfur	- 471	- 418yy	- 462h2	- 42112	- 4- 42S	SU0-	ql s
i erbAum	1yh71	1S24y- 6h	1S224yy-	hh- 2S00	1S1- 4SSS	1U0-	ql s
i erbAum	1yh72	4Sy428-	4Shh8yS	- h68- 14	4S4S816	1U6y	ql s
i GallAum	2S- 71	- S- 4	200y	20yS	28y-	yUyS	ql s
i GallAum	2Sy71	6468	688y	6hS2	60y2	- U64	ql s
i An	11871	- 0y08	- 0S- 4	- 6hS1	- 0101	SUh6	ql s
i A&anAum	4071	1yh- 02	16421-	162024	1621S-	1Uy-	ql s
MranAum	2- 871	y1S- 6	ySh- 6	y1- 8S	y1110	SU46	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	68h28	6844h	68h2y	68068	SU4S	ql s
Y&erbAum	10271	1y4yh	1yS84	1y- Sh	1y284	1U24	ql s
Y&erbAum	10272	0y0y	0- - y	062y	0y12	2US6	ql s
Y&erbAum	10671	11S88	11y- S	1S06-	11120	- U46	ql s
Y&erbAum	10672	16- Sy	161- 2	1y1y-	1y86-	- Uh1	ql s
Y&&Aum	8h71	1- yhh- 6-	1- 46h62h	1- 4S- yh4	1- 4hS862	SU04	ql s
Y&&Aum	8h72	14SyS11	1- 2- - 6y	1- 164- 1	1- 4826h	- U6y	ql s
ZAnq	6672	1616h1	1yh8S8	1yhy1y	16S- - 8	SU04	ql s
ZAqonAum	hS71	- - 00y	- 6166	- y- 80	- y1Sh	- U40	ql s
ZAqonAum	h171	82y-	81y-	006h	8Sy8	- U10	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	hh- 02h	h48y6y	h42424	h48- 0-	1US-	ql s
c n&AmonE	12171	40h1	46S1	4y68	400-	- U36	ql s
c rsenAq	0h72	hS4h	hS4y	4y8y	hS28	SU60	ql s
BarAum	1- h71	4yyh44	4y202-	4yS4y6	4y42h4	SUyh	ql s
BarAum	1- 071	8hy81y	804422	8h- y1y	86202S	1U22	ql s
BerElAum	y71	2- 8h	2462	24y6	2448	2U-	ql s
BAsmu&G	2Sy71	6084y- 1	60h0Syy	0SS8006	68hS26y	2US1	ql s
BAsmu&G	2Sy72	- 204S62	- 2- 88y6	- 26000-	- 26S244	SUh8	ql s
BromAne	8171	081y	0844	81S-	0y22	1Uy8	ql s
RaOmAum	1S871	260	20h	20h	202	1U00	ql s
RaOmAum	1S671	4- S1	41hy	46hy	4- 0-	hU8y	ql s
RaOmAum	11171	- y- 6	- y86	414y	4S24	2U00	ql s
RalqAum	4- 71	- - 48yy	- - - - Sy	- - 4S64	- - 4Sy1	SU24	ql s
RalqAum	4471	h02S102	h606S46	h60- 46h	h68y8yh	SU46	ql s
Rarbon	1271	- 8y0- 28	- y- yyS-	4S86y46	- y04026	2UhS	ql s
Rarbon	1272	hS68S	481- 8	48- y0	4yS02	2U8h	ql s
RGlorAne	- h71	2S6SS11h	24h116- 6	264- 1821	2- 8408h0	12U46	ql s
RGlorAne	- h72	1y888h	2Sh24S	2S8S- S	2S4Sh2	2U S	ql s
RGromAum	h272	- Syh4	- 12- 4	- S22y	- S8Sh	1U68	ql s
Robal&	hy72	- yh1h	- yh4h	- y44h	- yhS1	SU1-	ql s
RoI I er	6- 72	12101S	11y11h	11yy18	12S240	1U1S	ql s
t EsI rosAum	1h671	h8486	h64S-	h0- 4y	h041-	1U82	ql s
t EsI rosAum	1h672	24- 22	2- 2yS	2206S	2- 4h0	- Uy	ql s
. rbAum	16471	40226	44606	4h61-	4h8- 8	2U81	ql s
. rbAum	16472	18h06	1826y	100Sh	18184	2U4-	ql s
HaOolAnAum	16S71	hS6Sh	h1124	h1S81	hSy- 0	SUh0	ql s
HaOolAnAum	16S72	2- 08h	2416y	2- 8S1	2- y18	SUy1	ql s
9 olmAum	16h71	y41y46-	y612S26	y8h248h	y620yy1	2U2h	ql s
9 olmAum	16h72	41yS- 00	42S6244	4142- 14	410y64h	SU8S	ql s
DnOAum	11h71	6y0S2yy	0S- 128S	0S46- 8y	0S1hy8y	SUh0	ql s
DnOAum	11h72	yh6482	yh11S4	y- hh8S	y40022	1U1h	ql s
Don	h472	2S6S- 8h	2Sh1- 6S	2S44hS8	2Sh2S8h	SUy	ql s
Don	h672	- 00- 2SS2	- 6828- 2-	- 6h0S6- 8	- 0S4- 6hh	1U6h	ql s
Don	h072	88S4y8	88- 8h6	86688S	800S08	1US2	ql s
KrEl &on	8- 71	- S6	- 42	- S1	- 10	0U11	ql s
LeaO	2S671	1hS4206	160y16h	16y- 06y	162h0- 0	6U4y	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	12611h-	120h8S2	1261811	12662hh	SU6h	ql s
LeaO	2S871	6- 26641	64h- 2Sy	661- 68S	6464h1S	2U2-	ql s
LA&GAum	671	2h24- h4	248226h	2h1- h6h	2hS6028	SU80	ql s
5 agnesAum	2472	h8- y8y	h0y11h	h6048h	h0686-	1U40	ql s
5 anganese	hh72	8Sy8yS	8SS402	0y26- 8	8S1SSS	1US8	ql s
5 olEbOenum	y471	1h826	164S2	16S6S	16Sy6	1U8S	ql s
5 olEbOenum	yh71	hy1S	61y-	hy18	6SS0	2U6y	ql s
5 olEbOenum	y671	86S-	8hh-	880S	860h	1Uy6	ql s
5 olEbOenum	y071	- 842	- 810	- 0y2	- 810	SU66	ql s
5 olEbOenum	y871	1S401	y8yh	8y2S	y062	8US-	ql s
NeoOEmAum	1hS71	y242-	y- 684	yh- - S	y- 812	1Uh	ql s
NeoOEmAum	1hS72	284hS	28yy8	2001y	28- 8y	2U26	ql s
NAqkel	6S72	1yy81	2S4- 8	2SSh1	2S1h0	1U22	ql s
PGosI Gorus	- 172	8y- 6	8h44	yS0S	88hS	- USy	ql s
Po&assAum	- y72	hSh024	hS6- 8S	4yyyh6	hS4S2S	SU0S	ql s
CGoOAum	1S- 71	666y61S	0S42S48	0S4S- - 0	6y10- - 2	- U1S	ql s
CGoOAum	1S- 72	- 21S8- 0	- 2S28- 8	- 2S0144	- 2S6y4S	SU12	ql s
pqanOAum	4h71	4- - SyS1	4hh4811	462S2y0	4hS2SS-	- Uy0	ql s
pqanOAum	4h72	142- 14	1428S1	14- h00	1428y0	SU4h	ql s
pelenAum	8271	11y	11S	1hh	128	18U6h	ql s
pelenAum	0072	11S	1- -	6-	1S2	- 4U80	ql s
pelenAum	0872	82	81	04	0y	hUh2	ql s
pAAqon	2871	14S0S08-	14264041	14- hy26y	142- 1hy8	1US-	ql s
pAver	1S071	h2Sy	h4S1	h0h1	h4h4	hUS4	ql s
pAver	1Sy71	h468	h2y-	h468	h41S	1U80	ql s
poOAum	2- 72	hh4S6	hh48y	hh1y0	hh- 64	SU20	ql s
p&ona&um	8671	20h8S1	2008h2	20- 286	20h646	SU8-	ql s
p&ona&um	8871	2h88h0y	24y1416	2h4- h40	2h41181	1Uy1	ql s
pulfur	- 471	2y0S24	2y- Sy6	28yh- 6	2y- 21y	1U28	ql s
i erbAum	1hy71	yhSh- 40	1SS66h8-	1SSyh108	y88yS- 6	- Uy6	ql s
i erbAum	1hy72	4116h66	4144h22	4S6- 22h	41S81S4	1US1	ql s
i GallAum	2S- 71	22y2	2110	2h42	2- 10	yU22	ql s
i GallAum	2Sh71	h41S	h268	h- y-	h- h0	1U4h	ql s
i An	11871	- 0S60	- 82y6	- 0y86	- 008-	1U6y	ql s
i A&anAum	4071	110826	11y421	12Syy1	11y41-	1Uy-	ql s
MranAum	2- 871	h1hy0	4y2S4	h1- Sh	hS0S2	2Uh0	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	6260-	618y-	6- Syh	62hh4	SUy0	ql s
Y&erbAum	10271	1- 604	1- 816	1- 4y1	1- 66S	1U1y	ql s
Y&erbAum	10272	6624	642y	6S6-	6- 02	4U40	ql s
Y&erbAum	10671	1S288	1SS12	1S2S4	1S168	1U-y	ql s
Y&erbAum	10672	1hSy8	1h- 81	1461y	1hS- -	2Uh6	ql s
Y&&Aum	8y71	1- S2- hh-	1- 204486	1- 2- 22SS	1- 106046	1US2	ql s
Y&&Aum	8y72	1- 881yS	1- 141hS	1- 2- h2y	1- 41yh6	- USS	ql s
ZAnq	6672	1S0h20	1Sh466	1Sh4y-	1S6162	1U11	ql s
ZAqonAum	yS71	- 4hy4	- hySh	- 4800	- h12h	1Uy6	ql s
ZAqonAum	y171	0061	8S08	8hyh	8144	hU10	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 R CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMR

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb cOcmb	2072	J- N221	J- . 0. N	J4- - 12	J4S444	SR4N	dDw
qCTb nCE	12171	NS0N	N244	NS1.	N114	1R44	dDw
qpwr Ccl	0J72	. 22-	. 101	. S6-	. 1J2	SRN.	dDw
Bspcmb	1- J71	J4JS06	J601J-	J02611	J6161-	2R6S	dDw
Bspcmb	1- 071	. 02111	1S2JS. N	1SS0- N1	1SS1J- S	2R6.	dDw
Br pEPmb	. 71	2. 06	- S. 1	- 126	- S6J	2R16	dDw
Bcwb mTG	2S. 71	0J. S1JS	022SS14	6. 641JJ	02JN1S6	4R 4	dDw
Bcwb mTG	2S. 72	- 26N- 6J	- 240J1S	- 2SNN- 6	- 241J01	SR -	dDw
Bpmb cOr	N171	6J6S	6J20	6N. 4	666S	- RSJ	dDw
9 sob cmb	1SN71	410	42.	42J	424	1R1S	dDw
9 sob cmb	1S671	4. N4	4JS1	4NS1	4062	JR1-	dDw
9 sob cmb	11171	- 4N2	- N2J	- 00.	- 6. J	JRS4	dDw
9 sPlcmb	4- 71	01S. 1-	0- . SN0	04S. - 0	0- S- 12	2R S	dDw
9 sPlcmb	4471	11NJ01- N	12- 0- 16.	12016446	12- 1JJN4	- R1	dDw
9 spenC	1271	4- 24NN2	444J1NS	4404SN1	4414014	1R0.	dDw
9 spenC	1272	JJ201	J6. 20	J4. 0N	JJ026	1RN.	dDw
9 GPmpcOr	- J71	2S6N. S4J	2400J- S0	2602- - J-	24S62J6N	12RNS	dDw
9 GPmpcOr	- J72	1. . 0- N	2S26- .	2S0JN1	2S- - 1.	1R J	dDw
9 Gpmb cmb	J272	41SS.	4S6N4	41S- 2	4S. SN	SR4N	dDw
9 nesFT	J. 72	- J- S4	- J204	- 6460	- J6N1	1R 1	dDw
9 nDDr p	6- 72	211. 10	2S. 4. N	2SN4. .	2S. . 01	SRN4	dDw
&EwDpnwcmb	1J671	0JJ- .	NSSN2	0. N4N	0N4. S	- R26	dDw
&EwDpnwcmb	1J672	- 246-	- 2. 10	- 1. 12	- 24- 1	1R1J	dDw
Upecmb	16471	JJ. NJ	JN0. 0	6S1N0	JN- 2-	- R60	dDw
Upecmb	16472	2- - 61	22. N-	2- - 24	2- 22-	SR S	dDw
HsonRCcmb	16S71	6JSS1	6NSJN	60446	66N- J	2R42	dDw
HsonRCcmb	16S72	- 166N	- 1JN1	- 1621	- 162-	SR14	dDw
h nPb cmb	16J71	1S411- N1	1SSS140J	. N42266	1SSNJS41	2R 1	dDw
h nPb cmb	16J72	424461S	4SNJ44S	4140- 0J	41J. 141	1R -	dDw
tCocmb	11J71	0JN0161	02S60N4	0S- 6- 21	02060JJ	- RNN	dDw
tCocmb	11J72	. 4- 061	. 26NS0	. - 1NS6	. - 412J	SR -	dDw
tpnC	J472	224N4. 4	2201J4J	22J. J2-	22J. NJ4	SR1	dDw
tpnC	J672	41- 64SN4	41SJS4. -	- . . 21. 61	4S00NN46	1RN6	dDw
tpnC	J072	. 01660	. 0. N10	. 6111N	. 0SN60	SR 0	dDw
KpEDTnC	N- 71	- 10	- 26	- J6	- - -	6R1S	dDw
Lr so	2S671	1214- - -	1244NN0	1200116	124J44J	2R12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Cr Tu sb r:	8 N
9 R CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpro:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMR

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S071	1S1JN11	1S46S. 4	1S624- 0	1S41440	2R20	dDw
Lr so	2SN71	JS0S226	J2S0N14	J- J- S. 0	J21S- 0.	2R01	dDw
LdTGmb	671	20S1J06	24JN6- -	2JS. - 4S	2JJ6J16	JRS1	dDw
y sgCr wcmb	2472	1J41S24	1J- 1014	1JS2N. 6	1J2J211	1R S	dDw
y sCgsCr wr	JJ72	1S- S4SS	1S16460	1S100S2	1S21J2-	SR06	dDw
y nPEeor Cmb	. 471	244- S	26JN4	26026	2J. 14	4R 6	dDw
y nPEeor Cmb	. J71	11014	12S40	11. 22	11N. 4	1R42	dDw
y nPEeor Cmb	. 671	1JS. 2	162NJ	16SJ1	1JNS.	4RSS	dDw
y nPEeor Cmb	. 071	6JNJ	0- 00	0J61	0104	0R2-	dDw
y nPEeor Cmb	. N71	1NS2.	1. 1. 0	1. J14	1N. 1-	4R14	dDw
u r noEb cmb	1JS71	12. 0J6	1- 0. 6-	1- 6S4.	1- 4JN.	- R1.	dDw
u r noEb cmb	1JS72	4SJ1N	- . . - -	4SJ4N	4S- - -	SRN6	dDw
u cdkr P	6S72	2- 4- 6	2- 20-	2- J06	2- 42N	SR6J	dDw
8 GhwDGhpmw	- 172	644-	61- J	J606	6SNJ	6R 4	dDw
8 nTswwcmb	- . 72	- J- 6. .	- 41N62	- 4441S	- 466J0	1RNS	dDw
F Ghocmb	1S- 71	0406. . -	0S60- NS	6. 0. - NN	0104JN0	- R0S	dDw
F Ghocmb	1S- 72	- 10S00-	- S6S. 4-	- 1N1N0S	- 1- 0N62	2R1-	dDw
I dsCocmb	4J71	4. N22J2	4J2- . S0	4640021	4010. 6S	JRS-	dDw
I dsCocmb	4J72	141. 4S	1- . 144	1- . 6- N	14S241	1RS6	dDw
I r P Cmb	N271	21J	10J	1NJ	1. 2	1SRN6	dDw
I r P Cmb	0072	140	110	140	1- 0	12R60	dDw
I r P Cmb	0N72	12J	1SJ	11.	116	NRN2	dDw
I dRdnC	2N71	124N4. 6J	1- 11024.	12. - 24. N	12N44. S4	2R1-	dDw
I dPr p	1S071	0620	NJJ-	N22N	N1- 6	JR00	dDw
I dPr p	1S. 71	0. 44	N- S-	N11.	N122	2R21	dDw
I nocmb	2- 72	11040.	110. N-	110NN2	1100N1	SR2-	dDw
I TpnCTcmb	N671	- . 206-	41212J	4112. 2	4SJ- . -	2R0S	dDw
I TpnCTcmb	NN71	- J- 4J66	- 66N2. 6	- 06. 2N0	- 6J0- N-	- R22	dDw
I mPmp	- 471	- S0JN1	- SN- NN	- S0. 0-	- S0. N1	SR1-	dDw
Ar pecmb	1J. 71	1SN. SSNN	1S1. - J6J	1SS6. 260	1S- N4- S0	4R26	dDw
Ar pecmb	1J. 72	4S62S. 4	41SSS- 2	4S220JS	4S6162J	SR J	dDw
AGs RPmb	2S- 71	22J.	24. 2	26N4	240N	NR1.	dDw
AGs RPmb	2SJ71	6SS2	6- 4-	62. -	621-	2R 0	dDw
AdC	11N71	2044J	2. 21J	2NN4N	2NJS2	- R2N	dDw
AdS Cmb	4071	16N2N-	101101	1042S2	10121.	1R0-	dDw
5 ps Cmb	2- N71	NS60-	N4JN2	NNJ- -	N4J. 6	4R6J	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 Rr CTI sb DP t&:	y h SMJS	&dPnTcnC MsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMRo

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	J172	6J120	6J4S2	64. - S	6J1J-	SR6	dDw
YTTr pe omb	10271	16- NJ	1024J	10- S-	16. 0N	- RS-	dDw
YTTr pe omb	10272	N10J	N1- S	0NJ2	NSJ-	2R10	dDw
YTTr pe omb	10671	11N02	12- S6	11J02	11. 10	- R1S	dDw
YTTr pe omb	10672	16101	16S21	162JJ	1614.	SR0-	dDw
YTTpomb	N. 71	14S62J61	1- NJ- JJ2	1- JSJN2.	1- NS0- 14	2RS4	dDw
YTTpomb	N. 72	14SS422	12. 6SN0	1- S0S12	1- - 4JS0	4R S	dDw
ZdCd	6672	14114J	1- . 1. 0	1- N416	1- . JN6	1RS1	dDw
ZqpdnComb	. S71	JS442	J26SS	J1. 02	J1602	2R1J	dDw
ZqpdnComb	. 171	111. 6	122- 1	12S64	11N- S	4R3.	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
APmb inimb	23O2	- 6- 4N4	- 646- O	- 611JN	- 6- 1O4	O.4N	cl w
Antib on9	12101	NyN	11OO	N42	J- -	1y.4J	cl w
ASvr nic	3yO2	14- J	1- 4J	1- yJ	1- N-	- .y3	cl w
BsSmb	1- y01	- - - J3y	- - 3N3O	- - - 622	- - y1y6	O.3O	cl w
BsSmb	1- 301	yJyN42	yJNNO6	yJ6y- -	yJ3O6O	O.26	cl w
Br S9PPmb	J01	- - 21	- y11	- 4NJ	- 44O	- .O2	cl w
Biwb mth	2OJ01	6yN3y11	63y4NJ1	6J241ON	63yyyO-	2.4J	cl w
Biwb mth	2OJO2	- 1NN4- y	- 2O4N1y	- 142364	- 13N631	1.O1	cl w
BSob inr	N101	6- J-	6yy2	636O	6y6N	2.NO	cl w
Csdb imb	1ON01	12y	J2	1OO	1O6	16.4-	cl w
Csdb imb	1O601	44N4	4O- 4	42N4	4263	y.2J	cl w
Csdb imb	11101	1444	1- 3-	1yON	1442	4.31	cl w
CsPeimb	4- 01	1O31Oy	1OyJJ6	1O6N6y	1O66y6	O.yy	cl w
CsPeimb	4401	1N4yN4J	1N2J- 21	1JO64NJ	1N6Oyy-	2.1N	cl w
CsSeon	1201	- 2- 636N	- - - 6314	- 26yOO2	- 23J4J4	1.y3	cl w
CsSeon	12O2	4O1Oy	- J412	- J4J6	- J631	O.Jy	cl w
ChPSnr	- y01	144416N2	1yNN2Ny6	16y6N6yO	1y6- 1O6-	6.Jy	cl w
ChPSnr	- yO2	11N3OO	12O1NO	11N313	11J1JJ	O.31	cl w
ChSob imb	y2O2	12O2J	1221y	11NN2	12O42	1.- J	cl w
CoesP	yJO2	13413	13- 61	13- 34	13- N4	O.13	cl w
Col l r S	6- O2	- 1y- N	- 1- 4y	- 1O63	- 1- 13	O.36	cl w
X9wl Sbwimb	1y601	1N12y4	1N4O14	1NO12O	1N13J6	1.1O	cl w
X9wl Sbwimb	1y6O2	346J3	36- 11	3- yJN	34N6J	1.N2	cl w
ESeimb	16401	14N432	14J423	1y221O	1yOO- 6	1.2J	cl w
ESeimb	164O2	6O33y	61O4J	6O- N3	6O3- 3	O.yy	cl w
GsdoPhimb	16O01	14NJO1	1yy614	1y- 3NJ	1y236N	2.23	cl w
GsdoPhimb	16O02	32- yN	31- 6-	31- 66	316J6	O.NO	cl w
HoPb imb	16y01	J2N3J1O	JyJ32N4	JJ6432O	J6166- N	- .y2	cl w
HoPb imb	16yO2	421NN3N	426O64-	4O3- 11J	41N421-	2.- y	cl w
Dndimb	11y01	63NJ2- N	6N2332N	3OyN4- -	6NJ1NOO	2.11	cl w
Dndimb	11yO2	J4N- J4	J4J16O	J- 6N2-	J443J2	O.3-	cl w
DSbon	y4O2	1N363y6	1J- 2424	1JO62- O	1JOy1- 3	1.46	cl w
DSbon	y6O2	- - 263326	- 4- 6J44N	- - 3- yy3O	- - 3JOJ1y	1.64	cl w
DSbon	y3O2	3JN- 22	NOO62O	NOJN26	NO2J2-	O.36	cl w
KS9l ton	N- 01	4yy	4- O	4y3	443	- .4O	cl w
Lr sd	2O601	2O- JyO	2O62J3	2Oy16N	2Oy1- J	O.y3	cl w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	C8 p 1	C8 p 2	C8 p -	C8 p Mr sn	C8 p RpX	Unitw
Lr sd	2O301	16JN1N	13O1J4	13OO- 3	13OO16	O.11	cl w
Lr sd	2ON01	N16N22	N1J3NJ	N1N46J	N1N- 6O	O.1N	cl w
Lithimb	601	24J- - 14	24N4164	2y4NOJO	2yONy22	1.- N	cl w
Msgnr wimb	24O2	- 11N2N	- OJ1J2	- O6- y-	- OJ124	O.NJ	cl w
Msngsnr wr	yyO2	1136- 1O	11Ny3NJ	11664- 6	113613J	O.N2	cl w
MoP9edr nmb	J401	62- y	3OJ4	64O2	6y33	6.J2	cl w
MoP9edr nmb	Jy01	4- O1	4y26	44y1	4426	2.yJ	cl w
MoP9edr nmb	J601	y326	y6O1	y6O1	y64-	1.2N	cl w
MoP9edr nmb	J301	2JN4	26N4	- 1OJ	2J2y	3.43	cl w
MoP9edr nmb	JN01	31J4	311O	3O6O	3121	O.Jy	cl w
u r od9b imb	1yO01	- 1NOy4	- 2N- - O	- 2JJ3-	- 2y4y2	1.JN	cl w
u r od9b imb	1yO02	J3- - 3	JNOyO	J3363	J331N	O.- 3	cl w
u ickr P	6O02	N2J2	N- - -	N- y6	N- 23	O.- N	cl w
8 howl hoSmw	- 102	1313	1yJ2	1y13	16ON	6.2N	cl w
8 otswwimb	- JO2	- 4y242	- yO1N1	- - JyO2	- 44J3y	1.yy	cl w
Rhodimb	1O- 01	6N13O11	6N6JNJN	6N1262J	6N- - 13J	O.43	cl w
Rhodimb	1O- O2	- 22J32-	- 216NyN	- 142O6J	- 1J6216	1.4N	cl w
pcsndimb	4y01	42- 34N6	4- N- y4y	4y13J14	4- 3J64N	- .2O	cl w
pcsndimb	4yO2	142y2J	14- O14	1- JJ61	141N- y	1.16	cl w
pr PnimB	N201	13y	22J	1N3	1J3	14.23	cl w
pr PnimB	33O2	- yO	- 13	- 43	- - N	y.44	cl w
pr PnimB	3NO2	211	21O	22O	214	2.yN	cl w
piPcon	2N01	32J1O4-	312yNNy	312- J63	31NO2JN	1.- 4	cl w
piPr S	1O301	11ON	1- 13	11- -	11N6	J.yJ	cl w
piPr S	1OJ01	113y	1113	1OOO	1OJ3	N.12	cl w
podimb	2- O2	2N4y-	233- y	2NO23	2NO32	1.2J	cl w
ptSontimb	N601	NO44J	N4- 43	N12- 3	N2O11	2.y1	cl w
ptSontimb	NN01	3OONO4	31113-	3OON2J	3O426J	O.Ny	cl w
pmPmS	- 401	233O43	231463	231111	23- 2ON	1.22	cl w
Tr Seimb	1yJ01	J- yJ2JO	JNyO1JO	JNJ4y24	J3O1- - y	- .O6	cl w
Tr Seimb	1yJO2	4O3O16O	4O4- yy-	4O1JyJ-	4O444- y	O.6-	cl w
ThsPPmb	2O- 01	1JyJ	2O42	1342	1J14	N.OJ	cl w
ThsPPmb	2Oy01	4yO1	4y1N	44O1	443-	1.41	cl w
Tin	11N01	N211	Ny3O	Nyy-	N444	2.4O	cl w
Titsnimb	4301	21JO14	22- y3y	222162	221yN4	1.Oy	cl w
USsnimb	2- N01	4J34O	4JJON	yOy- y	yOO61	O.N4	cl w

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Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
Vsnsdimb	y1O2	214OJ	224ON	213- O	21N4J	2.- -	cl w
Yttr Seimb	13201	4y13O	461NJ	461N2	4yN43	1.2N	cl w
Yttr Seimb	13202	21- y6	213Ny	21y2-	21yyy	1.OO	cl w
Yttr Seimb	13601	2JO- -	- O- 61	2J- - -	2Jy3y	2.- y	cl w
Yttr Seimb	13602	241y6	2yJ4N	2yOy3	2yOy4	- .yN	cl w
YttSmb	NJ01	14133y2y	14y623NO	14y12N- 1	14413312	1.4y	cl w
YttSmb	NJ02	1yyJN1N	1y263y2	1y1- N4-	1y- - 431	1.yy	cl w
Zinc	6602	4- NO4	42y- 4	4- J3N	4- 4- J	1.N2	cl w
ZiSconimb	JO01	11246	1O3- N	1ON46	1OJ4-	2.4y	cl w
ZiSconimb	J101	24yO	223y	243y	24OO	4.y4	cl w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 443O04XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDTio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
i lumTiTum	23O2	- n1222	- 89O19	- n6384	- n1OO3	1.91	Aps
i oDTmdoy	1210 1	88-	n29	898	88n	- .3n	Aps
i rseoTA	39O2	149n	1444	1493	1494	O.96	Aps
BarTum	1- 90 1	- 993n2	- 9n686	- 94n92	- 9681O	O.31	Aps
BarTum	1- 30 1	6249- 8	64693n	613138	62n4- 2	2.4-	Aps
BerylTum	n0 1	- 932	- 3- O	- 6n-	- 669	2.29	Aps
BTsmuD0n	2On0 1	3O- 338O	312343O	68481- 8	3OO446-	2.O4	Aps
BTsmuD0n	2OnO2	- 2n468O	2n6O6- 1	26nO1n6	2n818- 6	1O.19	Aps
BrdmTbe	81 0 1	3O23	3O1O	32- 9	3On1	1.33	Aps
CaqmTum	1O80 1	n2	146	1O4	114	24.nO	Aps
CaqmTum	1O60 1	439n	44- 4	4136	4496	6.96	Aps
CaqmTum	111 0 1	1962	1912	1934	194n	2.11	Aps
CalATum	4- 0 1	1122O8	11- O62	114On2	11- 121	O.8-	Aps
CalATum	44 0 1	1nn4449	2O43O18	1n9n641	2OOO- 68	2.2O	Aps
Carbdo	12 0 1	- - 93938	- - - 8O19	- - n3349	- - 64446	O.n1	Aps
Carbdo	12O2	41- 13	41129	414n-	41- 11	O.49	Aps
ChldrTbe	- 90 1	12911- 29	141- 4O- n	1912- 8n3	1- n2- O83	n.43	Aps
ChldrTbe	- 9O2	11- 4OO	111- 91	11994-	11- 4- 1	1.89	Aps
ChrdmTum	92O2	12662	12- 6n	1- O3n	123O4	2.81	Aps
CdbalD	9nO2	1826n	138- 1	183nn	18- OO	2.69	Aps
Cdpper	6- O2	- OnO3	- O48n	- 1- 88	- On28	1.49	Aps
XysprdsTum	196 0 1	186n88	1831- 2	181488	1892O2	1.34	Aps
XysprdsTum	196O2	39n48	3616-	33292	36494	O.n1	Aps
ErbTum	164 0 1	14n9n4	1996- 3	19291O	19298O	1.n8	Aps
ErbTum	164O2	6O914	9nn81	61n- 4	6O81O	1.66	Aps
GaqdlTbTum	16O0 1	198446	198992	19- - 89	1963n4	1.88	Aps
GaqdlTbTum	16OO2	3- 32n	34On9	39O9-	342n2	O.n2	Aps
HdlmTum	169 0 1	nn1O943	nnnO968	1OO84O82	nnn9O66	O.83	Aps
HdlmTum	169O2	4411242	- 8628- 8	- 92O36-	- n- 1614	11.4-	Aps
IoqTum	119 0 1	6n9n983	3223n64	3OO1618	3O6- O96	2.O4	Aps
IoqTum	119O2	n3n- 29	868888	38nOO1	83nO31	1O.83	Aps
Irdo	94O2	2On6- 26	2O62O21	21O884-	2O8nO6-	1.16	Aps
Irdo	96O2	- 6942O3-	- 34On36n	- 82666- -	- 34O6198	2.- 1	Aps
Irdo	93O2	83444-	881n82	8nn- 93	889261	1.44	Aps
KrypD0o	8- 0 1	433	466	441	462	4.O2	Aps
Leaq	2O60 1	21n921	2212O9	21- 2nO	218OO9	1.n1	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
Leaq	2O301	138448	1338n6	1829O8	13n613	1.4O	Aps
Leaq	2O801	831O6O	866- 92	86942-	863612	O.- 9	Aps
LTDTum	601	2999243	2696O- 4	2699143	262214-	2.21	Aps
MagoesTum	24O2	- 21OO4	- 11693	- 183- 1	- 131- 1	1.94	Aps
Maogaoese	99O2	124462-	12- n428	1284O23	1296O26	1.n4	Aps
Mdlybqeoum	n401	6623	66O2	6289	69O4	2.n-	Aps
Mdlybqeoum	n901	9O84	4936	48O1	482O	9.2n	Aps
Mdlybqeoum	n601	9n- 9	9336	9689	93nn	2.18	Aps
Mdlybqeoum	n301	2842	28On	2339	28On	1.1n	Aps
Mdlybqeoum	n801	3944	366n	3911	3939	1.1O	Aps
NedqymTum	19OO1	- 29- On	- 2n693	- 18196	- 24- 34	1.3n	Aps
NedqymTum	19OO2	1OO- 6n	n3336	nn9- O	nn229	1.- -	Aps
NTAkel	6OO2	83- -	831-	839n	83- 9	O.23	Aps
Phdsphdrus	- 1O2	1413	14- -	19O8	149-	- .- 6	Aps
PdDassTum	- nO2	- 2n- 46	- 231OO	- - 9OOn	- - O489	1.2-	Aps
RhdqTum	1O- 01	3119Onn	3241n38	3162933	313- 218	O.8n	Aps
RhdqTum	1O- O2	- - 3O- 39	2n- 493-	26669OO	2nnO48-	11.88	Aps
SAaoqTum	4901	463O239	4391844	49n892n	463- 94n	1.64	Aps
SAaoqTum	49O2	146- - 1	1- 2942	1164- 1	1- 1368	11.- 6	Aps
SeleoTum	8201	2O9	229	21n	216	4.3-	Aps
SeleoTum	33O2	- 1O	2n-	- 1O	- O4	- .16	Aps
SeleoTum	38O2	246	2- 3	248	244	2.4O	Aps
STTAdo	2801	82- 2124	8O926O6	8- 8nn1-	8224881	2.O9	Aps
STver	1O301	12- -	1- 9O	11n2	1298	6.92	Aps
STver	1On01	12OO	12O8	1- 39	1261	3.8-	Aps
SdqTum	2- O2	- 3- 82	- 9n83	- 3n16	- 3On9	2.6n	Aps
SDdoDTum	8601	8n14-	884O9	88- 46	886- 1	O.9O	Aps
SDdoDTum	8801	39n326	362698	36n- - n	36- nO8	O.64	Aps
Sulfur	- 401	268888	269812	261396	269489	1.- 9	Aps
&erbTum	19n01	1O- 99688	1O- 9n49n	n816n13	1O133- 99	- .O3	Aps
&erbTum	19nO2	4221433	- 3nn2O9	- 41n3O8	- 81- 46-	1O.92	Aps
&hallTum	2O- 01	2O13	1n13	1n- 4	1n96	2.34	Aps
&hallTum	2O901	4926	4n- 4	49O1	4694	9.2-	Aps
&TD	11801	12496	1- O- 1	1- O4n	12849	2.6-	Aps
&TaoTum	4301	24O431	24O322	24O636	24O62-	O.O6	Aps
UraoTum	2- 801	9O918	9- 446	9O442	9146n	- .- -	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0lr :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
CITeoDSample IX :	MHOF18	XTuDEio FaAD0lr :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
VaoaqTum	910 2	2- O62	22- n8	2- O9n	228- n	1.68	Aps
YDerbTum	1320 1	46- 4n	498n3	432- 9	464n-	1.46	Aps
YDerbTum	1320 2	21889	224- 6	223O-	22- 41	1.83	Aps
YDerbTum	1360 1	- O26n	- O69-	- 16- O	- O891	2.28	Aps
YDerbTum	1360 2	26O69	29O6-	2- 3- -	24n94	4.6n	Aps
YDDTum	8n0 1	143n24- O	19262231	1434n9O-	14n- 43- 9	1.nO	Aps
YDDTum	8n0 2	1938O93	142OO91	12986O4	1418nO4	11.26	Aps
ZTbA	660 2	46O31	46132	46n84	464On	1.O8	Aps
ZTAdoTum	nO0 1	1O9n6	1116-	1111-	1On93	2.83	Aps
ZTAdoTum	n10 1	2984	2484	229n	2442	6.82	Aps

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Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII inI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4407S0	&CPIIbe Cpi:mI e p:J	us
9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdNbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdNd:mI e p:J	S. 2 FUMRo

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI C	9 u DF DT	5 CdqP
Nve qCdpe	2072	426244	420S- -	41sS- -	42- 00S	1R1s	dt P
CIqe nCE	12171	- a42	- 610	- 006	- 64a	- R20	dt P
IPpCqd	0a72	2- s6	2244	2246	22. 2	- Raa	dt P
BI IdNe	1- a71	- a02a.	- a04s.	- a2- - a	- aa6. 4	SRs2	dt P
BI IdNe	1- 071	6- 2a66	6- - a06	6- 101S	6- 261s	SR1a	dt P
BpIENNe	. 71	- 0a-	- 06a	- 00a	- 064	SR S	dt P
BqPe biG	2S. 71	0S6s66S	01. s261	6sS4241	0S2- 021	2Rs6	dt P
BqPe biG	2S. 72	- 2- 24. S	- 2- . S- 4	- 2- S6. 6	- 2- 4S04	SR14	dt P
BIne qCp	s171	aasa	a66s	a. S1	a01s	2Rs0	dt P
9 I oe dpe	1Ss71	- 42	246	- S4	2. 0	16R2a	dt P
9 I oe dpe	1S671	4s4-	4606	42a.	4a. -	6Ra4	dt P
9 I oe dpe	11171	21as	2- as	2Sa.	21. 2	6R 6	dt P
9 I NdNe	4- 71	- . 060-	4S- 0- 6	- . s. 06	4SS12s	SRsS	dt P
9 I NdNe	4471	6s12600	6s66aSa	66. 142a	60. S2S-	1R 2	dt P
9 I Ir nC	1271	- 6621. .	- 0- a06a	- 0. S6- 1	- 02. a- 2	1R0-	dt P
9 I Ir nC	1272	4a61-	46S. s	4441s	4a- 06	1R 1	dt P
9 GNIqCp	- a71	1. 4s20as	2- 024s6s	2614a1s.	2- 1106Sa	14Ra.	dt P
9 GNIqCp	- a72	1. a0S.	2Sa46S	2S01. 2	2S20s0	- RSa	dt P
9 GIne dpe	a272	2- 6. -	2- - s.	2- 0sS	2- 621	SRs0	dt P
9 nr I NI	a. 72	2. S4-	2s21a	2saS.	2sas.	1R40	dt P
9 nt t pI	6- 72	6- aSa	620aa	62. 2.	6- S6-	SR62	dt P
TEPt InPdpe	1a671	s4- as	s661a	s02a2	s6S0a	1R00	dt P
TEPt InPdpe	1a672	- a. 1a	- a- 4S	- 4- S0	- a1s0	2R 1	dt P
UIr dpe	16471	6- S60	642- .	6- s46	6- 010	SR 4	dt P
UIr dpe	16472	2a02a	2a4as	24266	2a14.	- RS.	dt P
HI onNqCdpe	16S71	0- . 0-	064- 6	06- 0s	0aa. 6	1Rs6	dt P
HI onNqCdpe	16S72	- a4. 4	- 4s12	- 42s0	- 4s64	1R04	dt P
h nNe dpe	16a71	1S46Sa2a	1S41- 1a-	. 604- . -	1S1s26. S	4R -	dt P
h nNe dpe	16a72	41S- aSa	410024-	4S. . 1S.	412661.	1RS6	dt P
&Cod pe	11a71	02s0. a6	02a6a2-	0S1ss64	01s00s1	2RSa	dt P
&Cod pe	11a72	. - a1- a	. 42aa6	. 20S- -	. - 4. Ss	SRs-	dt P
&nC	a472	1ss4s40	1s4s- - 6	1sS6- 4s	1s46a1S	2R1-	dt P
&nC	a672	- 206sS- -	- - a02- - 0	- 2- S226a	- 2ssSs0s	1R a	dt P
&nC	a072	0s0026	0. 6s06	00. s02	0ss1as	1RSs	dt P
KIEt inC	s- 71	- 11	- 02	- S.	- - 1	1SR 1	dt P
LpI o	2S671	a21aas	a44ss6	a2- - 21	a2. . 22	2R4a	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pl:J	LB1264S0	3 t pll inl:J	wl P8 l N
Ll r :Dl e t Nl:&T :J	3 - 4407S0	&CPllbe Cpi:ml e p:J	us
9 NlpCi:Dl e t Nl:&T :J	y h SM2-	TdNiqnC:M dinl:J	1
Tl ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	Tl il MdNl:ml e p:J	S. 2 FUMR

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl C	9 uDF DT	5 CdqP
Lpl o	2S071	4- - 0. 6	44s64S	44S6s2	441S- .	1R3s	dt P
Lpl o	2Ss71	2S6S161	21Ss. 16	2S6- 2a1	2S0044-	1R 1	dt P
LqiGdpe	671	26- - . . .	26- 6- 0s	2aS46- 4	2a. 160S	2R 1	dt P
y l gCpPdpe	2472	0a6S10	044. s2	041- 1-	0404- s	1RS2	dt P
y l Cgl CpPp	aa72	4- 1114	4- 46. .	4241. 0	4- SSS-	1R24	dt P
y nNEr opCbe	. 471	aSs- a	a2s10	a1040	a1sSS	1R 2	dt P
y nNEr opCbe	. a71	46S1	4006	46s4	46s0	1R30	dt P
y nNEr opCbe	. 671	12a14	1- 2. S	12. S6	12. S4	- RS1	dt P
y nNEr opCbe	. 071	2s- 4	2a0a	2. 60	20. 2	0R1-	dt P
y nNEr opCbe	. s71	606.	6. 20	0- 1S	0SS2	- R s	dt P
mpnoEe dpe	1aS71	1a1- 4a	1a4s- 2	1a- s61	1a- - 46	1R10	dt P
mpnoEe dpe	1aS72	4a. 4a	44. 0s	446. 4	4a2S6	1R4a	dt P
mqdkpN	6S72	1a2. 2	1402s	1a122	1aS40	1R 2	dt P
uGnPt GnlbP	- 172	a46s	a426	a1S.	a- - 4	- R60	dt P
unil PPdpe	- . 72	4SS1aa	- . . a6a	4S4Sa4	4S12as	SR61	dt P
F Gnodpe	1S- 71	0- 2a6- .	02126S0	60. S1. 1	01S. 40.	- R 0	dt P
F Gnodpe	1S- 72	- 16a6sS	- 1. . 12s	- 1000S4	- 1sSs- 0	SRa-	dt P
Ddl Codpe	4a71	4041S- s	40aa06S	441264S	46- 640.	4R1s	dt P
Ddl Codpe	4a72	1422S0	1414s6	14S426	141- 0-	SR6-	dt P
DpNlCdpe	s271	1- 0	124	1s2	14s	2SR00	dt P
DpNlCdpe	0072	1- 0	1- -	11S	120	11R40	dt P
DpNlCdpe	0s72	142	11s	1S4	121	1aR34	dt P
DqNqnC	2s71	12. - 626-	1- 1- S- 41	1- S- 2s10	1- S- - 14S	SR04	dt P
DqNpl	1S071	4- a1	- . S.	- . S1	4Sa-	6R a	dt P
DqNpl	1S. 71	- as4	4aa1	- 0- 4	- . a6	1- R1a	dt P
Dnodpe	2- 72	4. 1. 2	4s. Ss	4sa- 1	4ss00	SR6s	dt P
DilnCidpe	s671	1s. - 14	1. 62. a	1. 42a1	1. - 2s6	1R36	dt P
DilnCidpe	ss71	1061216	1006as.	10. 4a. a	1000460	SR 4	dt P
DbNbl	- 471	- S1216	- S4. s0	- Sa64-	- S- . 4.	SR0.	dt P
cplr dpe	1a. 71	1Sa4a6. s	1S- . . - aS	. 02S60S	1S221. S6	4R 1	dt P
cplr dpe	1a. 72	4S064SS	4Sss1a-	- . 0sa- -	4S406. a	1R4.	dt P
cGl Nqpe	2S- 71	14Ss	14as	1aSs	14as	- R4-	dt P
cGl Nqpe	2Sa71	- 0S.	- 460	- 606	- 610	- R62	dt P
cqC	11s71	22666	16644	10160	1ss26	10R02	dt P
cqlCdpe	4071	1- a61-	1- 6220	1- 1. - S	1- 4a. S	1R0-	dt P
5 ll Cdpe	2- s71	6a24-	6a. ss	6assS	6a0S4	SR61	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII inI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4407S0	&CPIIbe Cpi:mI e p:J	us
9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdbI:mI e p:J	S. 2 FUMRo

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl C	9 u DF DT	5 CdqP
VI CI odqe	a172	44212	44SS0	440. S	44- - 6	SR.2	dt P
YiipIr dqe	10271	1s221	10462	10- 12	1066a	2R06	dt P
YiipIr dqe	10272	s214	s4as	sS0a	s24.	2R a	dt P
YiipIr dqe	10671	12. 4S	124- 1	12s6a	1204a	2R16	dt P
YiipIr dqe	10672	166- s	16Ss2	161. .	16- S0	1RsS	dt P
YiiIdqe	s. 71	14S24141	14S6s- - 4	1- 11- ssS	1- 0- a4a2	- R.2	dt P
YiiIdqe	s. 72	142sSSS	1- 22a04	1- S- 6. 0	1- a1424	4R.6	dt P
ZdqCd	6672	1. 2s1a	1. 4S- 1	1. 2s64	1. - 2- 6	SR.6	dt P
ZdqdnCdqe	. S71	12sS6s	1- - 206	1- 26a2	1- 1- - 2	2R10	dt P
ZdqdnCdqe	. 171	2. a66	2. s04	2. 04.	2. 0- S	SRa2	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c cmb	20:2	12	120	1N6	140	22M06	dDl
q. Tcb C. h	121:1	42	-N	0-	-N	2NM0	dDl
qpl r . cl	0-:2	-	S	2	2	1S0MM-	dDl
Bwpcmb	17-:1	-N	142	177	111	41M1	dDl
Bwpcmb	170:1	1 2	0-	1N7	1-S	47M	dDl
Br ph8&mb	:1	77	7N	7	76	M12	dDl
Bcl b mTE	2S :1	021 S76	6 S7 00	60-2277	6 -N416	7M12	dDl
Bcl b mTE	2S :2	727S 2	27N7SN0	7106 24	2 7S774	16M2S	dDl
BpCb c r	N1:1	76 2	7N-	70S1	70-1	2MS	dDl
F wob cmb	1SN:1	4	N	10	1S	6-M0	dDl
F wob cmb	1S6:1	7N74	720-	2 10	7742	17MM7	dDl
F wob cmb	111:1	4S1	774	2 7	747	16M2	dDl
F w8lcmb	47:1	26S	71	44-	741	20M0S	dDl
F w8lcmb	44:1	7S1S-	7S720	7164-	7S6 7	2M01	dDl
F wpeC.	12:1	22N4162	22616N0	22-4024	2266N-N	SM0N	dDl
F wpeC.	12:2	26 0-	26066	20020	201-6	1MM6	dDl
F E8Cpc r	7-:1	4S 6216	7 1264	7014744	7 S0070	4MM	dDl
F E8Cpc r	7-:2	27-4-	22N7-	2S 04	224-1	-M1	dDl
F EpCb cmb	-2:2	1120	1S60	11 S	112N	-M0	dDl
F Cew8T	- :2	67	20	-S	40	7 M06	dDl
F CDDr p	67:2	0N7	N6S	N1S	N1N	4M06	dDl
&hl DpCl cmb	1-6:1	2-	S	N	11	114MN	dDl
&hl DpCl cmb	1-6:2	7	1S	70	10	1S-MM-	dDl
Upecmb	164:1	0-	60	N7	0-	11M1	dDl
Upecmb	164:2	70	20	77	72	1-MS	dDl
GwoC8c cmb	16S:1	110	110	1SN	114	4M2	dDl
GwoC8c cmb	16S:2	S	07	100	117	4NM-	dDl
HC8b cmb	16-:1	1S2N-6NN	NN- -72	-12N14	N 460N	7M1	dDl
HC8b cmb	16-:2	417 22	7S070N0	4S4-7S1	70-2002	1-M02	dDl
t. ocmb	11-:1	0-0 1SS	0216 0	6 70S-2	02447N7	4M4	dDl
t. ocmb	11-:2	46-10	6 7707	20N40	N- - 12	16M4N	dDl
tpC.	-4:2	422	7-S	-60	446	24M02	dDl
tpC.	-6:2	7160	7410	0010	4060	-7M-	dDl
tpC.	-0:2	02	1-S	77	1N0	07M7	dDl
KphDTC.	N7:1	2-S	2-6	2-	2- -	1M0	dDl
Lr wo	2S6:1	N61	044	10	N41	1SM46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ l wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ l wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3I 1	F3I 2	F3I 7	F3I 9 r w.	F3I y l &	5 . cT
Lr wo	2S0:1	022	22	N2N	N24	12M14	dDI
Lr wo	2SN:1	70N	7-0N	74N	761	4M26	dDI
LcTEcmb	6:1	26S0-N1	26S--1-	2-S4666	2-02-N0	2M2	dDI
9 wg. r l cmb	24:2	1-S	1SS	2N7	10N	-7M71	dDI
9 w. gw. r l r	--:2	N0	1S0	1NS	124	7 M4	dDI
9 C8neor . mb	4:1	1SN	110	1 2	17	77M34	dDI
9 C8neor . mb	-:1	77	77	110	61	0NM04	dDI
9 C8neor . mb	6:1	1-S	2	10-	17	7SM0	dDI
9 C8neor . mb	0:1	N7	77	-S	-6	4-MN7	dDI
9 C8neor . mb	N:1	N7	42	0-	60	77M30	dDI
u r Cohb cmb	1-S:1	77	2S	20	20	24M	dDI
u r Cohb cmb	1-S:2	7	S	47	16	1--M37	dDI
u cdkr 8	6S:2	77	77	N7	-S	-0M04	dDI
3 ECl DECpm	71:2	1SN	1SN	1-S	122	1 M6N	dDI
3 CTWl cmb	7 :2	NN0N	N-76	N 61	N0 2	2M6	dDI
y ECocmb	1S7:1	07607-S	0SS40-7	0SS0 01	01266 1	2M2	dDI
y ECocmb	1S7:2	71-2S N	2426N74	717- -	2 S4 06	14M26	dDI
l dw. ocmb	4-:1	46N 6-	4-7S74	444SN4	4--7021	2M00	dDI
l dw. ocmb	4-:2	14S624	1S1N40	17 162	120211	10M2N	dDI
l r 8 . cmb	N2:1	:14	:1S	:4S	:21	:06M1	dDI
l r 8 . cmb	00:2	S	S	7	1	107M21	dDI
l r 8 . cmb	0N:2	1S	17	1-	17	1 MN0	dDI
l c8dC.	2N:1	101400	1607 0	166241	16N702	1M67	dDI
l c8vr p	1S0:1	210	242	177	1 0	2NM06	dDI
l c8vr p	1S :1	12-	142	177	177	6M2-	dDI
l Cocmb	27:2	162 7	16406	161S	162 7	1M17	dDI
l TpC. Tcmb	N6:1	477	-10	660	-7	21M4	dDI
l TpC. Tcmb	NN:1	1160	1S-S	1--	12-N	21M10	dDI
l m8mp	74:1	24 4S2	2-S-70	2-1171	2-S7-0	SM7-	dDI
Ar pecmb	1- :1	1S7 -126	074 00	66-206	710 7	4M36	dDI
Ar pecmb	1- :2	4SS2-12	2 7674S	7N6-00-	76S1-42	16M11	dDI
AEw8cmb	2S7:1	7-S	1N7	742	2 2	72M2S	dDI
AEw8cmb	2S-:1	6SS	60-	60-	6-S	6M06	dDI
Ac	11N:1	11-S	12SN	1210	11 2	7M3-	dDI
AcTw. cmb	40:1	1 2	1 2	1SN	164	2 M7-	dDI
5 pw. cmb	27N:1	10	-S	10	2N	6 M20	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUMd

3wpwb r Tr p	9 wl l	F3I 1	F3I 2	F3I 7	F3I 9 r w.	F3I y l &	5 . dT
Vw. wocmb	-1:2	S	27	47	22	0M8S	dDl
YTTr pecmb	102:1	42	42	77	7	12M7N	dDl
YTTr pecmb	102:2	77	10	2N	26	72M02	dDl
YTTr pecmb	106:1	1277	1777	1S-N	12SN	11M2	dDl
YTTr pecmb	106:2	1S- 7	0 SN	11102	N 1	10M61	dDl
YTTpcmb	N :1	17-74- -	120N 2N2	12706- 7	12 SS1-0	4M-	dDl
YTTpcmb	N :2	127-6SS	22N S	127-6N4	11717 2	1-M6	dDl
Zc d	66:2	140	117	1 7	1-1	26M	dDl
ZqpdC. cmb	S:1	- 2	-SN	442	-14	14M62	dDl
ZqpdC. cmb	1:1	2	60	12-	4	7SMN	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l T Rdpamle pas	S 4LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14u0	147-	16 -	1-7	uM7	dDP
q. Tde C. h	121J1	10Su6	16600	102S7	16 u	1M62	dDP
qlPp. cd	0-J2	22	27	24u	27	7Mu	dDP
Bl dbe	17-J1	1 1 0	1 2u	1 0-0	1 414	1M4	dDP
Bl dbe	170J1	771u7	7707-	77S 1	77776	1N34	dDP
BplhNbe	J1	27S0	2766	22-1	27Su	2M4	dDP
BdPe bTE	2S J1	6S 4- 6	60u604	66uS0-u	6-2S0S1	-M02	dDP
BdPe bTE	2S J2	71-7664	724021-	7246u2S	721- SS	1M0u	dDP
BlCe c p	u1J1	4SS1	42S1	7 74	4S4-	7M47	dDP
Fl oe dbe	1SuJ1	167	10-	217	1u7	14M1	dDP
Fl oe dbe	1S6J1	74u4	70u4	7010	7662	4M7S	dDP
Fl oe dbe	111J1	2671	2-u	2400	2-66	7N3	dDP
Fl Ndbe	47J1	12774	12-uu	12SS	1271S	2M76	dDP
Fl Ndbe	44J1	2206 S	22- - - 0	227u10	22-6uu	SM6	dDP
Fl lr C.	12J1	27-SS-S	27411 2	2262012	2710 u-	2N30	dDP
Fl lr C.	12J2	20u1S	20-47	200-2	200S2	SM1	dDP
FENCl c p	7-J1	2-26 00	246 701	24S 0 S	246u017	2M70	dDP
FENCl c p	7-J2	16447	1-160	147	1-776	6M07	dDP
FElCe dbe	-2J2	6S-u	6Su1	- u1	6S4S	SM0	dDP
FCrl NT	- J2	4041	4671	4uS4	402-	1M6	dDP
FCDDpl	67J2	u7-7	u2u6	u4-	u766	1N3-	dDP
&hPDlCPtbe	1-6J1	10	S	u	u	1SSN32	dDP
&hPDlCPtbe	1-6J2	0	S	2S		114M-	dDP
Ulr dbe	164J1	0-	110	0-	u	20N30	dDP
Ulr dbe	164J2	10	70	77	2	70N3u	dDP
Gl oCNl dbe	16SJ1	-S	60	u7	60	2-N3S	dDP
Gl oCNl dbe	16SJ2	1S0	140	170	17S	16N31	dDP
HCNe dbe	16-J1	u- 7Su-	67S1-S	40-776	272u-0	6N36	dDP
HCNe dbe	16-J2	4S7uu07	4110-S6	41S60 7	4Su0024	1N34	dDP
t. odbe	11-J1	61u-171	6 0S6-2	6 u7 S1	601722u	6M1	dDP
t. odbe	11-J2	72- -	7-07-	-S04S	7 60u	1N37	dDP
tlC.	-4J2	27S-u	27 7	270-	276S7	2N36	dDP
tlC.	-6J2	42712u	427-11	47170	426SS6	1N3	dDP
tlC.	-0J2	1S 21	1S-6S	1Su 7	1S0 1	1M6	dDP
KlhDTC.	u7J1	246	264	264	2-u	7M2	dDP
Lpl o	2S6J1	2 2	2-7	u-0-	S4S	4M46	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s-	&l Tl Rdpamlepas	S 4LF: UMd

3lll e pTpl	9lPP	F3: 1	F3: 2	F3: 7	F3: 9pl.	F3: y: &	5. dP
Lpl o	2S0J1	06uS	0 -u	0076	00 1	1Nd	dDP
Lpl o	2SuJ1	7- 26	76-6-	7-271	7- S0	1Nd6	dDP
LdEdbe	6J1	22u277	24 1u -	2-2u 6-	24744SS	-N46	dDP
9lg. pPdbe	24J2	4u	0--1	1SS27-	S 2	1N4S	dDP
9l. gl. pPp	--J2	1460	1777	14 0	1472	6N80	dDP
9 CNr op. be	4J1	1u2S4	1u2 6	1012u	10u06	7N67	dDP
9 CNr op. be	-J1	21 26	2241	21110	21u2S	7N81	dDP
9 CNr op. be	6J1	2-16-	24267	2-1 u	24u06	2M7	dDP
9 CNr op. be	0J1	14-66	17 1	14741	142	2N87	dDP
9 CNr op. be	uJ1	7-4 6	76771	74147	7-727	7M7	dDP
mpCohe dbe	1-SJ1	20	S	20	1u	u6N4S	dDP
mpCohe dbe	1-SJ2	0	S	7S	12	12uN0	dDP
mdkpN	6SJ2	1220	17S7	1760	12	-N4S	dDP
3ECPDECIbP	71J2	110	1-S	1SS	122	2SN7	dDP
3CTPPdbe	7 J2	667u6	66-01	6 12-	60761	2N20	dDP
y ECodbe	1S7J1	6426761	6 24SS1	0S-uSSS	6uS20u0	4Nd	dDP
y ECodbe	1S7J2	71641 2	72-46	71000S4	71 uu6-	1M7	dDP
: dl. odbe	4-J1	7 uSS S	47 -0-6	447S61u	426uu21	-N0	dDP
: dl. odbe	4-J2	14S772	17u66	17 uu	17 667	SN67	dDP
: pNp. dbe	u2J1	u	2	u1	uu2	6M4-	dDP
: pNp. dbe	00J2	20	2S	77	20	24M	dDP
: pNp. dbe	0uJ2	u6	1SS	6-	u4	21N8-	dDP
: ddC.	2uJ1	2714-7	22-uS6	227S22	226061	1Nd	dDP
: dNpl	1S0J1	117 0	11uu	11 14	11077	2M4	dDP
: dNpl	1S J1	1S S-	1S S-	1S 7S	1S 17	SM7	dDP
: Codbe	27J2	1u4 6	1u1710	1u6uS2	1u4702	1M2	dDP
: TC. Tdbe	u6J1	2 -S	7S74	7274	7S07	4N04	dDP
: TC. Tdbe	uuJ1	2710u	2417u	22011	27742	7M2	dDP
: bNbl	74J1	2-6111	2-0u7u	2-7u-2	2-- 74	SN0u	dDP
Aplr dbe	1- J1	uu667 -	1SS1u1uu	-040-u	4u6440	6M2	dDP
Aplr dbe	1- J2	7 -u074	4111S76	7 0276-	4S14S4-	2M1S	dDP
AEl Ndbe	2S7J1	0	70	1SS01	6	SN0u	dDP
AEl Ndbe	2S-J1	27240	272uS	22u0	2717-	SM6	dDP
Ac	11uJ1	14-u	1242	1S-S	12-S	16N74	dDP
AdT. dbe	40J1	661u	6200	6226	6704	7N7-	dDP
5ll. dbe	27uJ1	777-7	747u1	72 7-	77--6	2N2	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l Tl Rdpamle pas	S 4LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	-20	7-7	06S	-40	2M14	dDP
YTpIr dbe	102J1	u7	0-	-u	02	10M67	dDP
YTpIr dbe	102J2	-6	77	2u	7	70MS	dDP
YTpIr dbe	106J1	11SS	17Su	1460	12 2	14M24	dDP
YTpIr dbe	106J2	1Su01	11S	11466	11146	2M6	dDP
YTTdbe	u J1	112 24S6	122162-1	12- -1602	12S2S11S	-M47	dDP
YTTdbe	u J2	127- 14	12-02 6	120SS-7	12-4421	1M7u	dDP
Zc d	66J2	27 S	2414	2424	24S	SM01	dDP
ZddC. dbe	SJ1	14 2	140SS	1-u74	1-10-	7Mu	dDP
ZddC. dbe	1J1	7410	7442	7410	7426	SM42	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10.J26.JSS	t s&sMRe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5nA&w
cRmAnAm	20 2	C2- 261	CS2S. .	7C444-	CS6. 76	1R6.	ql w
cn&AmonE	121 1	4226	4SS1	- 774	4S- 0	4R S	ql w
crwenAq	0. 2	2022	200-	201-	20- 6	1R17	ql w
BsrAm	1- . 1	- 70616	- C4S41	- C1671	- C111-	SR7-	ql w
BsrAm	1- 0 1	677C- 6	6C1202	6C4S24	6C1411	SR 0	ql w
BerEHAm	C 1	2C22	2C04	27SS	27CC	- RS7	ql w
BAmu&G	2SC 1	611S114	666- 004	6CCS1- S	6. 77SS6	6R0.	ql w
BAmu&G	2SC 2	- - 2S166	- 42- SCC	- 22S- 47	- - 212S.	- RS.	ql w
BromAne	71 1	60- .	0- 6C	04S2	016C	. R24	ql w
9 sOmAm	1S7 1	1- 7	1. S	1. S	146	4RC.	ql w
9 sOmAm	1S6 1	- CSC	- 7. C	- CC2	- C2S	1R02	ql w
9 sOmAm	111 1	1C66	171C	171.	1766	4R6S	ql w
9 sRqAm	4- 1	4C014S	4CC44.	4C1061	4C611.	SR0C	ql w
9 sRqAm	44 1	7- 74C74	7- 2- 4. 6	71- 7714	7272417	1R .	ql w
9 srbon	12 1	672- 10C	01- S6- 1	01- 71. .	0S- S6. .	2R 6	ql w
9 srbon	12 2	70611	72672	70476	7. C26	- R20	ql w
9 GRorAne	- . 1	1246C. 22	1. 0C- 11C	17- S. 2C-	1. . 2264.	17R76	ql w
9 GRorAne	- . 2	1. 10- C	1. . 2. C	16277.	1. 6627	- R64	ql w
9 GromAm	. 2 2	4- S2.	42761	41614	42. SS	1R72	ql w
9 obsR&	. C 2	42106	41C07	4- S17	42- C1	1R S	ql w
9 ol l er	6- 2	7C16.	77S60	CS2- .	7C1. 6	1R22	ql w
t EwI rowAm	1. 6 1	0- - C-	02211	0- - C4	02CCC	SRC-	ql w
t EwI rowAm	1. 6 2	- S161	- S417	- S114	- S2- 1	SR 4	ql w
UrbAm	164 1	614. 1	6S622	. C667	6S. 7S	1R40	ql w
UrbAm	164 2	2- . 27	241. 2	242S.	2- C62	1R 0	ql w
HsOoRnAm	16S 1	6- - 67	6. C71	64624	646. 7	2RS2	ql w
HsOoRnAm	16S 2	- S072	2C. - C	- S1C7	- S10-	2RS6	ql w
hoRnAm	16. 1	7621771	C762007	1SS20CC2	C. S4210	7RSC	ql w
hoRnAm	16. 2	41C2261	426- 602	41S- 71C	4176. 74	1RC1	ql w
DnOAm	11. 1	62C- 770	0S1C. 26	021S176	67412SS	0RS0	ql w
DnOAm	11. 2	C. 00C4	C7SSS.	C- 116.	C. 6- 22	2R 6	ql w
Don	. 4 2	- 2- CC04	- 24S- . 7	- 21. - . 4	- 2- 17C.	SR44	ql w
Don	. 6 2	. 7S- 6. . 4	. 747S00.	. 72100- S	. 724. S2S	SR 7	ql w
Don	. 0 2	1. SC62.	140. 77.	1. S7CS4	14C71- 7	1R2C	ql w
KrEI &on	7- 1	- 4S	- SC	- 11	- 2S	. R4-	ql w
LesO	2S6 1	- 17. 6C	- 12S42	- S7121	- 12C11	1R6C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J26JSS	t s&sMAe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5nA&w
LesO	2S0 1	2621- .	2. 00- S	2. CS71	2. C64C	SR70	ql w
LesO	2S7 1	12- 144C	1210166	121616C	1221. C.	SR0S	ql w
LA&GAum	6 1	24. 604.	261- 4C0	262CC- S	2. 66024	- R02	ql w
y sgnewAum	24 2	1. 4- C64	1470S71	1. S1427	1. 1S724	1R06	ql w
y sngsnewe	. . 2	0- S011	0- 7S- 0	0- . 6- -	0- 40C4	SR.1	ql w
y oPEbOenum	C4 1	16117	1. 77.	160- 6	16246	2R01	ql w
y oPEbOenum	C. 1	646S	676S	671S	601S	- R2.	ql w
y oPEbOenum	C6 1	CS4.	7027	C. . -	C1SC	4R.0	ql w
y oPEbOenum	C0 1	- 0C2	4SS1	44S1	4S6.	0R61	ql w
y oPEbOenum	C7 1	1111-	C72C	1S42C	1S4. 0	6R14	ql w
NeoOEmAum	1. S 1	11C64C	110SC-	11. - 02	110- 01	1R7-	ql w
NeoOEmAum	1. S 2	- . 027	- . 206	- . 0C4	- . . CC	SR0C	ql w
NAqkeP	6S 2	270C6	2C140	2C. 10	2C1. -	1R24	ql w
8 GowI Goruw	- 1 2	4- C2	4S60	41. C	42S6	- R0C	ql w
8 o&swwAum	- C 2	47C- 2-	472C6S	47. 144	47. 7SC	SR60	ql w
F GoOAum	1S- 1	6262. 46	6771C6.	0SS- 2C7	601. C- 6	. R02	ql w
F GoOAum	1S- 2	- 2- 1C6-	- - 242S-	- 16606.	- 24SC00	2R44	ql w
pqsnOAum	4. 1	4S60C1C	4. - 6. 1S	4. . 1SC2	4- 7. 10-	6R20	ql w
pqsnOAum	4. 2	14. 17C	14C1- 4	141C. 0	14. 420	2R40	ql w
pe&enAum	72 1	211	262	2- C	2- 0	1SR7S	ql w
pe&enAum	00 2	1- S	160	140	147	12R42	ql w
pe&enAum	07 2	11-	114	1- S	11C	7RS2	ql w
pAAqon	27 1	1SC6C41C	11S4. S2-	1SCC06SC	11SS4S10	SR.	ql w
pAPer	1S0 1	24. C	2- . S	22SC	2- - C	. R6	ql w
pAPer	1SC 1	2- . C	210.	2S42	21C2	0R2.	ql w
poOAum	2- 2	. - - - 1	. 2S. 2	. 111.	. 2166	2R1-	ql w
p&ona&Aum	76 1	2S71. .	2S07S6	2S670.	2S0612	SR.2	ql w
p&ona&Aum	77 1	174- 6C0	1CS7- 0S	17. - 21C	176742C	1R70	ql w
puPur	- 4 1	2C. - . S	2C000S	2C6S0C	2C64SS	SR42	ql w
i erbAum	1. C 1	7C424S0	C77. 24S	1S2- - - 66	C670SS4	6RCS	ql w
i erbAum	1. C 2	411. 044	4200727	- C. - 72.	411. 0CC	- RC4	ql w
i GsPAum	2S- 1	- . 60	- 6. C	- - 26	- . 10	4RCS	ql w
i GsPAum	2S. 1	72C.	7276	710S	72. S	SR7.	ql w
i An	117 1	C2S-	77- 6	C1. -	CS64	2R1C	ql w
i A&snAum	40 1	1S221-	1S1- 4S	1SSS- 1	1S11C.	1RSC	ql w
5 rsnAum	2- 7 1	. - 7CS	. 4S16	. 4- 74	. 4SC0	SR40	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Aen&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J26JSS	t s&sMAe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	9 8p1	9 8p2	9 8p-	9 8py esn	9 8pFpt	5 nA&w
VsnsOAum	. 1 2	00411	06077	0. 72C	06606	1RS4	ql w
Y&erbAum	102 1	1C- C7	2SS72	1C17C	1C. . 0	2R C	ql w
Y&erbAum	102 2	CS70	C26.	C- . -	C2- .	1R40	ql w
Y&erbAum	106 1	1- 066	1- C04	1- 44C	1- 0- S	1RC-	ql w
Y&erbAum	106 2	10- - 4	1027C	1647-	10S- .	2R71	ql w
Y&&Aum	7C 1	12S- 20S-	1- - 0C1- 7	1- 0S- SC4	1- S- 7- 12	6R0C	ql w
Y&&Aum	7C 2	146S- 16	147- S6.	1- 7C626	1444- - 6	- R 0	ql w
ZAnq	66 2	0S270	6C0- S	0SS6C	0SS2C	SR4S	ql w
ZAqonAum	CS 1	- 4761	- - - 4C	- - 0SS	- - C0S	2R -	ql w
ZAqonAum	C1 1	026S	0620	0. 1C	046C	2R 2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 1-	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTl wb D8 :t&:J	y h SM67&	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCmb	20 2	. 17076	. 27a67	. S7261	. 17a- 7	1R11	dDl
qCTb nCE	121 1	- 6a.	- . 74	- a06	- 0- .	aR30	dDl
qpl r Ccl	0a 2	271-	20a7	26. a	20aa	2R14	dDl
Bwpcmb	1- a 1	- 71. 61	- 7. 0aS	4SS00-	- . S727	2R42	dDl
Bwpcmb	1- 0 1	60. 2. 6	6. a4. 0	6. 6624	6. S402	1R4S	dDl
Br pE8mb	. 1	27S1	20- .	27- 6	20. 2	1R30	dDl
Bdl b mTG	2S. 1	602704S	6742216	6. 0SS00	6740S11	1R36	dDl
Bdl b mTG	2S. 2	- 4a060-	- 146S. a	- 10a4S6	- 2a. 02a	aR27	dDl
Bpmb cCr	71 1	02S2	671S	0020	0246	6R a	dDl
9 wob cmb	1S7 1	12.	16-	160	1a-	1- R4a	dDl
9 wob cmb	1S6 1	- . 06	4- a1	- 760	4S6a	6R24	dDl
9 wob cmb	111 1	1727	17a1	1. S4	1761	2RS7	dDl
9 w8lcmb	4- 1	47- S0a	4. 4. 4.	4. 40aS	4. S. 2a	1R 7	dDl
9 w8lcmb	44 1	726SaS-	7- 6. 17.	7a61107	7- . 6. a0	1R71	dDl
9 wpenC	12 1	6. 742a4	01- 1S- 0	0- 6- - S4	01a. a- 2	2R60	dDl
9 wpenC	12 2	767- .	7aS12	7a6S7	7a72S	1RS.	dDl
9 G8mpCr	- a 1	107. 160a	21- 0. S46	2- 666- - .	2S. 0. S2S	1- R76	dDl
9 G8mpCr	- a 2	104- 47	17- 2. .	17642.	171- a.	- R46	dDl
9 Gpmb cmb	a2 2	420. 4	4- 02S	4- 7SS	4- 4- 7	1R2.	dDl
9 new8T	a. 2	4- 4. 6	4- 640	4- 17.	4- 444	SRa4	dDl
9 nDDr p	6- 2	. 11- S	. S7. .	. 1624	. 1217	SR41	dDl
&El Dpnl cmb	1a6 1	6072-	021. a	02. - -	0S. 74	- R7.	dDl
&El Dpnl cmb	1a6 2	2. 6- 6	- Sa17	2. 406	2. 700	1R77	dDl
Upecmb	164 1	a. 20a	622- S	6S6Sa	6S0S-	2R44	dDl
Upecmb	164 2	24- a6	24- 0.	2a11S	2461a	1R04	dDl
Hwon8Ccmb	16S 1	64616	6a- 76	6610-	6a- . 2	1R1.	dDl
Hwon8Ccmb	16S 2	2. 6. -	- Sa72	2. 06S	- SS12	1R6a	dDl
h n8b cmb	16a 1	. 610S- 6	. 71410a	1SS0- a17	. 7- 4. 1S	2R -	dDl
h n8b cmb	16a 2	4417. 44	- . . 762-	41640. 4	41. 412S	aRSa	dDl
tCocmb	11a 1	01777SS	0S62076	026- . . 4	010176S	1R42	dDl
tCocmb	11a 2	. . 4a00	. 121S2	. 46S62	. aS. 14	4R 6	dDl
tpnC	a4 2	- - 6S111	- - 166- 4	- - 4aa06	- - 4S004	SR66	dDl
tpnC	a6 2	a77. 1SSa	a. 7- . 4S0	a70aa20a	a. 1617. 6	1RSS	dDl
tpnC	a0 2	1a- S1aa	1a20016	1a14aSa	1a2412a	SRaa	dDl
KpEDTnC	7- 1	- 26	2. 4	- - 6	- 1.	6R 0	dDl
Lr wo	2S6 1	- 1- 4- 6	- 147. 0	- 16126	- 1472S	SR4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 1-	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67&	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:10.J27.Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	2a6a4a	2a6. a-	2a6. a1	2a6716	SR8S.	dDl
Lr wo	2S7 1	121S624	12- 1022	122114a	1221164	SR76	dDl
LcTGmb	6 1	26- 242-	26S4- 1a	2014472	26aS4S0	2R16	dDl
y wgCr l cmb	24 2	1aS- . SS	147a- 70	1470. - 4	14. 24S0	SR60	dDl
y wCgwCr l r	aa 2	04- 100	0a. 40.	0441. a	047. aS	1R22	dDl
y n8Eeor Cmb	. 4 1	16- 17	1a. 06	16- 00	16224	1R -	dDl
y n8Eeor Cmb	. a 1	6100	616S	60a2	6- 6-	aR S	dDl
y n8Eeor Cmb	. 6 1	77- 6	7. 61	. 00.	. 1. 2	aRa0	dDl
y n8Eeor Cmb	. 0 1	41a.	- . 26	- 006	- . a-	4R7.	dDl
y n8Eeor Cmb	. 7 1	1S121	1S0. 6	1S62.	1Sa1a	- R a	dDl
u r noEb cmb	1aS 1	11- S61	1106a.	11. 447	11602-	2R72	dDl
u r noEb cmb	1aS 2	- a404	- a. 77	- a246	- aa6.	1RS0	dDl
u cdkr 8	6S 2	2. . 72	- S176	- S- - 2	- S160	SRa7	dDl
NGhl DGhpml	- 1 2	4S42	- . - 4	4174	4Sa-	- RS.	dDl
NnTwl l cmb	- . 2	47272.	470S60	4. 1S. 6	476. . 0	SR7a	dDl
F Ghocmb	1S- 1	67006SS	671- 6a6	0171. 70	6. a0047	2R7-	dDl
F Ghocmb	1S- 2	- - 64. 14	- S24710	- 1- a1. S	- 104. 04	aR46	dDl
l dwCocmb	4a 1	4a0. a67	4447624	47. 77S2	4642- - 1	4R .	dDl
l dwCocmb	4a 2	1a2606	1- 0a6a	14- 6. a	14464a	aR2a	dDl
l r 8 Ccmb	72 1	10S	- 21	2S2	2- 1	- 4R4-	dDl
l r 8 Ccmb	00 2	11-	14-	1- 0	1- 1	12RS1	dDl
l r 8 Ccmb	07 2	1S4	1Sa	1Sa	1Sa	SRaa	dDl
l c8dnC	27 1	11Sa472.	11- 204- 0	1116S- 01	1117S70.	1R2-	dDl
l c8vr p	1S0 1	2460	24aS	22SS	2- 02	6R S	dDl
l c8vr p	1S. 1	2- S.	2274	22- 4	220a	1R67	dDl
l nocmb	2- 2	a- 171	a21a2	a1. - a	a2422	1R20	dDl
l TpnCTcmb	76 1	2S4747	2S- a42	2S0. 7-	2Sa4a7	1R11	dDl
l TpnCTcmb	77 1	177SS. 2	17. . a17	1. SS042	17. - 4a1	SR61	dDl
l m8mp	- 4 1	2. 6- S7	2. . a42	- S- 27a	2. . 012	1R16	dDl
Ar pecmb	1a. 1	1SSa20- S	. 7S7S70	1S46S6a6	1S1S01a7	- R26	dDl
Ar pecmb	1a. 2	4- 44. 46	- . 27- 67	4S07244	4110176	aR12	dDl
AGw8cmb	2S- 1	- 6. 2	- 4a1	- 4S.	- a10	4R a	dDl
AGw8cmb	2Sa 1	74S-	71a-	702S	742a	- R 0	dDl
AcC	117 1	76a-	7076	. 42S	7. a-	4Ra7	dDl
AcTwCcmb	40 1	. 767S	1SS. 4S	1S1606	1SS4- 2	1Raa	dDl
5 pwCcmb	2- 7 1	a4a- a	a6620	aa0S6	aa62-	1R77	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 1-	tCl Tpmb Cr T:u wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67&	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMt8 :u wb r :J	S. 6qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	00. . 2	00. 64	006a6	00701	SR24	dDI
YTTr pecmb	102 1	17aaa	1. 6S0	1. 6a0	1. 20-	- R2-	dDI
YTTr pecmb	102 2	. SS-	. 60S	. a- 1	. 4S2	- R04	dDI
YTTr pecmb	106 1	1- 404	1- 441	1- a16	1- 400	SR27	dDI
YTTr pecmb	106 2	102S6	101- 4	10- - 4	10224	SRa.	dDI
YTTpcmb	7. 1	1- 66120S	1- aS7400	14112. 01	1- 06S. S6	2R27	dDI
YTTpcmb	7. 2	1a22416	1206141	1- 0SS2.	1- 7. a2.	7R 4	dDI
ZdCd	66 2	01. 21	01. S7	01044	017a7	SR14	dDI
ZqpdnCcmb	. S 1	- - aa7	- - a. 1	- - 0. 2	- - 640	SR 7	dDI
ZqpdnCcmb	. 1 1	04S2	0- 00	06S2	0461	1R3a	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
ARminium	23X2	10 4R	13R- - 3	130 22	1011- 6	2U12	cpw
Antimony	121X1	R63	0 0	013	001	0U3R	cpw
Arwenic	3 X2	23	4	4R	4O	2U13	cpw
Bsrium	1- X1	346RR	3 032	30R14	364R	2U04	cpw
Bsrium	1- 3X1	1- O0 0	142422	1- 603	1- 6310	4U2-	cpw
BeryRium	RX1	61	64	6O4	36	4U14	cpw
Biwmuth	2ORX1	32O4261	6R1 302	6332 2O	6R64100	- U16	cpw
Biwmuth	2ORX2	24- 010O	- 041O6O	- 2041- 4	- 1033R1	22U16	cpw
Bromine	01X1	1R-	40R-	4 OR	406	3U04	cpw
Msdmium	1O0X1	2R	31	2R	4-	U06	cpw
Msdmium	1O6X1	- 3 1	- R04	- 6 1	- 3R	4U 1	cpw
Msdmium	111X1	60O	641	64	6	- U20	cpw
MsRium	4- X1	R4O26	R3 - 6	R3RR-	R6 10	2U2	cpw
MsRium	44X1	1662ROO	163 O3O	131300	160 200	1U31	cpw
Msrbon	12X1	- 2 O- 60	- - 6- 013	- - - 4 4	- - 22 46	1U0R	cpw
Msrbon	12X2	41463	4O640	4O00-	4ORRR	1UO-	cpw
MhRorine	- X1	0040- 23	R1O426-	ROO64461	ROO 604	1U -	cpw
MhRorine	- X2	6OO63	6O311	6O311	6O4R6	OU61	cpw
Mhromium	2X2	R126	ROO6-	R 3	R24R	2URO	cpw
MobsRR	RX2	03 -	046R	0366	066-	1UR4	cpw
Mopper	6- X2	1R126	1043R	1063R	10361	1U33	cpw
Dywprowium	1 6X1	14- 41	141 O	141R1	14223	OU31	cpw
Dywprowium	1 6X2	6100	001	3R0	R 6	- U4	cpw
Frbium	164X1	1OR31	11614	11043	11433	- UR	cpw
Frbium	164X2	4011	4321	46R1	4341	1U 2	cpw
GsdoRhium	16OX1	11632	12R2-	1- 124	12 3-	6U26	cpw
GsdoRhium	16OX2	R40	R20	6- O	6O6O	- U O	cpw
9 oRhium	16 X1	1O2R42R0	R3R1421	R 2 106	R03O- O2	- URR6	cpw
9 oRhium	16 X2	- O4O242	4R6- O44	41- 664	4O46- 13	2- U04	cpw
Indium	11 X1	3116O R	31O3360	60O2- 1O	3OO0312	2U	cpw
Indium	11 X2	3O631	11- R R1	R643- -	R- 3O1-	2- U24	cpw
Iron	4X2	62- - -	R- 4- 1	6O2233	6O6- 40	2U -	cpw
Iron	6X2	11R1334	116- R6	11 21463	116R2R 6	1U34	cpw
Iron	3X2	20262R	23- 3- R	23 O6R	233146	1U3-	cpw
Krypton	0- X1	20O	2- R	233	26	0U31	cpw
Lesd	2O6X1	6OO0R	61001	61- 04	61110	1U 1	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Lesd	2O3X1	O-14	21	4RR0	O010	2UJO	cpw
Lesd	2O0X1	2-3-31	24-36-	2-RR2R	24O- 4	1UJ4	cpw
Lithium	6X1	2632-1O	2 611OO	2 124-R	2 01R O	-U13	cpw
Hsgnewium	24X2	2ROO634	23341O	204O3	204O -	2UJ-	cpw
Hsngsnewe	X2	1 O 20	1430-1	1 O-0O	14R 0O	1U01	cpw
HoRybdenum	R4X1	2ROO	- - 04	-1 R	-140	3U6R	cpw
HoRybdenum	R X1	1OO0	12R2	110-	1161	12UJ1	cpw
HoRybdenum	R6X1	1013	160-	1063	130R	UJO	cpw
HoRybdenum	R3X1	02	60-	R0-	0-1	10U03	cpw
HoRybdenum	R0X1	1R63	2213	2O R	2O01	6U00	cpw
Neodymium	1 OX1	22- 2	2-R22	2-421	2-2-2	-U4	cpw
Neodymium	1 OX2	3O3	3O-2	3O4R	3O 2	OUJ1	cpw
NickeP	6OX2	6-10	6O40	61R0	6100	2U1R	cpw
8howphoruw	-1X2	1OOO	042	R 0	R- -	0U3R	cpw
8otswwium	-RX2	1O6-36	1OO- 0	1O-3-1	1O-400	2UR1	cpw
Ehodium	1O-X1	323OR31	311614-	6063-40	3O04021	2U03	cpw
Ehodium	1O-X2	2-R41 6	-3ROO 3	-2163 -	-1- -6 6	22UJR	cpw
Scsndium	4 X1	4300 13	4 22 O-	4 13 R1	46OR -3	-UJ6	cpw
Scsndium	4 X2	1O 6O0	160- -3	14-233	1-RO34	22U3O	cpw
SeRenium	02X1	-O	4	14	-O	2U0-	cpw
SeRenium	33X2	2O	- -	2-	26	23U1	cpw
SeRenium	30X2	-0	-6	-	-6	4U2O	cpw
SiRcon	20X1	22 4411	2-1-21R	2-44R64	2-O41R0	1URR	cpw
SiRver	1O3X1	0	4R2	43	O0	0U63	cpw
SiRver	1ORX1	2	0-	R2	63	6U41	cpw
Sodium	2-X2	22410	2162	22310	222 4	2UJ4	cpw
Strontium	06X1	-00-0	4OR1R	-R016	-R0 3	2U61	cpw
Strontium	00X1	- - 06-	- 2212	- 4224	-40- 3	2U4-	cpw
SuRur	-4X1	23O414	231 O0	2314 R	231123	OU2-	cpw
Terbium	1 RX1	1O12OOR2	1OO-23-O	R3264 4	RR R3 R	2U00	cpw
Terbium	1 RX2	-O66326	40R11RR	41O3 - -	4O2101R	22U36	cpw
ThsRium	2O-X1	0R2	0 0	0 0	03O	2U21	cpw
ThsRium	2O X1	1313	132	1ROO	1301	U02	cpw
Tin	110X1	24R2	2 04	21OR	2-R	1OUJ2	cpw
Titsnium	43X1	1R 0R	1R20O	2OOO6	1R62	1U06	cpw
Crsnium	2-0X1	1O421	111O	1O043	1O3R1	-U2O	cpw

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Vsnsdium	1X2	1 R2	1 - 60	1 43	1 430	O.32	cpw
Ytterbium	132X1	- 626	- 013	4226	- 0RO	3U00	cpw
Ytterbium	132X2	10- R	1R32	1330	106-	U4	cpw
Ytterbium	136X1	- - 1	- 326	- - 42	- 43-	6U1	cpw
Ytterbium	136X2	R23O	142O2	1- 12-	121RR	21U26	cpw
Yttrium	0RX1	1- 4 RO- 3	12R324O-	124R3RO3	12R3644R	- U3O	cpw
Yttrium	0RX2	R4- 0	1 0R632	126- 0 6	126 3O4	2 U2	cpw
Zinc	66X2	14000	14203	1- 0RO	14-	- UO	cpw
Zirconium	ROX1	664-	6R1O	3O-	606-	2UR2	cpw
Zirconium	R1X1	1 13	1 O0	14 O	14R2	2U44	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 14	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTl wb D8 :t&:J	y h SM67I	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J-4Ja2	&wTwMv8 :u wb r :J	S. 7qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCmb	20 2	. . 671.	1SSS7S2	. 762S.	. . 461S	SR06	dDl
qCTb nCE	121 1	1S22a.	1Sa0. 2	1S420-	1S41S7	1R0S	dDl
qpl r Ccl	0a 2	- . Sa	- . - 1	- 7. a	- . 1S	SR47	dDl
Bwpcmb	1- a 1	76. 222	772. S7	. SS4Sa	774107	1R00	dDl
Bwpcmb	1- 0 1	1644712	1606. 77	16. 6114	16026- 7	1Raa	dDl
Br pE8mb	. 1	17S. 6	17S2-	107S0	10. 0a	SR74	dDl
Bdl b mTG	2S. 1	67- 1- 4.	677S710	6. 17176	6706074	SR6-	dDl
Bdl b mTG	2S. 2	- 2- 2a6.	- 2- . 742	- 24- 21-	- 2- 7a42	SR10	dDl
Bpmb cCr	71 1	6. S2	00. 4	0700	0a24	0R1.	dDl
9 wob cmb	1S7 1	1S2a	1SaS	111-	1S6-	4R24	dDl
9 wob cmb	1S6 1	aa6S	a606	aa06	a6S4	1R1-	dDl
9 wob cmb	111 1	14. 14	147a7	1a. - 4	1a2- a	- R 7	dDl
9 w8lcmb	4- 1	4. a- 22	4. 0S12	4. a27S	4. a702	SR2S	dDl
9 w8lcmb	44 1	7- - . 2S7	7- 76- a1	72. a604	7- 4S411	SRa4	dDl
9 wpenC	12 1	6044200	6. 2- 074	0Sa1027	6. S6a. 6	2R24	dDl
9 wpenC	12 2	71- 41	7- - 11	72774	72a12	1R26	dDl
9 G8npCr	- a 1	1a1a12Sa	1720S- 14	2S64S- 1a	17S2S611	1aR27	dDl
9 G8npCr	- a 2	1aa. S.	16S020	16a261	16S6- 2	2R 1	dDl
9 Gpmb cmb	a2 2	11- . S-	11S06a	111026	1121- 1	1R4-	dDl
9 new8T	a. 2	- 4a6a0	- 46a- 1	- 4S42-	- 442S-	SR 6	dDl
9 nDDr p	6- 2	21- 02S	2147- -	211- 6a	21- - S6	SR7-	dDl
&El Dpnl cmb	1a6 1	01aSS	022S-	0171S	017- 7	SR4.	dDl
&El Dpnl cmb	1a6 2	2. a2.	2. . . S	- S2a7	2. . 26	1R2-	dDl
Upecmb	164 1	6S262	6S4a4	6S2- 0	6S- 17	SR2S	dDl
Upecmb	164 2	24- - 2	24- a2	24aa6	24414	SRa1	dDl
Hwon8Ccmb	16S 1	6400a	62. S0	6aS7a	642a6	1R7-	dDl
Hwon8Ccmb	16S 2	2. . - S	2. . 40	2. 666	2. 747	SRa-	dDl
h n8b cmb	16a 1	. 671017	. 7446a-	. 7a7- 46	. 0. 4. S6	1RSS	dDl
h n8b cmb	16a 2	41. 6- 7S	414. 1- S	4- S2a0-	4216S27	1R76	dDl
tCocmb	11a 1	6. Sa60.	0S21- 4S	01- - aS7	0S2S106	1R62	dDl
tCocmb	11a 2	. 6SaS.	. aS- . 4	. 46a2.	. a2400	SR06	dDl
tpnC	a4 2	- 4S. 6S0	- - 6- SS7	- - S02- 7	- - a. . a1	1Ra-	dDl
tpnC	a6 2	6120- . 1.	6S7S0461	6S4. . aaS	6S76S- 1S	SR64	dDl
tpnC	a0 2	1a. . Sa2	1a0a260	1a674. S	1a7S. - 6	1RS2	dDl
KpEDTnC	7- 1	- S2	- 2a	- a6	- 27	7R2-	dDl
Lr wo	2S6 1	- 22. 7-	- - Sa1S	- - 2644	- 27012	1Ra4	dDl

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Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 14	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67I	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:10J-4.Ja2	&wTwMv8 :u wb r :J	S. 7qF UMR

NwpwbrTrp	ywl l	9NI 1	9NI 2	9NI -	9NI yrwC	9NI FI &	5CcT
Lr wo	2S0 1	20S216	201116	20a. 4.	202420	1R1-	dDl
Lr wo	2S7 1	12. aa0a	12. 406S	1- Sa662	12. 7666	SR40	dDl
LcTGcmb	6 1	2a1004.	26S4462	26212a.	2a711a0	2R1a	dDl
y wgCr l cmb	24 2	1a4- S7a	1a- S. 2a	1a1aS72	1a2. 6. 7	SR.2	dDl
y wCgwCr l r	aa 2	74. 072	744- . a	74S0. a	744. . 1	SRa4	dDl
y n8Eeor Cmb	. 4 1	1a74-	1646S	16. 76	164- S	- R47	dDl
y n8Eeor Cmb	. a 1	6S67	a7. -	6S- a	a. . .	1Raa	dDl
y n8Eeor Cmb	. 6 1	7a07	. aS4	. a. a	. 226	6R1S	dDl
y n8Eeor Cmb	. 0 1	4SS.	- . S1	4S- 4	- . 71	1R07	dDl
y n8Eeor Cmb	. 7 1	1S4. 6	1S162	1Sa6-	1S4S0	2RS6	dDl
u r noEb cmb	1aS 1	110S26	11a40-	110010	1160- .	SR.7	dDl
u r noEb cmb	1aS 2	- a146	- aSS2	- aS- 2	- aS6S	SR22	dDl
u cdkr 8	6S 2	117a- 6	11a266	11a4S7	1164S-	1Ra.	dDl
NGhl DGhpml	- 1 2	- . - 4	4- . 2	4S. 2	414S	aR62	dDl
NnTwl l cmb	- . 2	a1- Sa0	aS4a2S	a1aSS6	a1S761	1RS.	dDl
F Ghocmb	1S- 1	671100-	6. a- 4S6	672a76S	676- 67S	1R14	dDl
F Ghocmb	1S- 2	- - S07aa	- - 111. 7	- 210. 4-	- 207. . .	1R61	dDl
l dwCocmb	4a 1	4a0a7- a	4a7a2a2	4a74- 67	4a71717	SR11	dDl
l dwCocmb	4a 2	146. a4	140S00	14- 4- a	14a722	1R42	dDl
l r 8 Ccmb	72 1	2- 12	22a1	24S1	2- 22	- R2a	dDl
l r 8 Ccmb	00 2	2S-	210	1. 0	2S6	4R.a	dDl
l r 8 Ccmb	07 2	27a	27.	- 26	- SS	0Ra4	dDl
l c&dnC	27 1	112S. . 02	11S200. 0	11202- a4	1110SS41	1R14	dDl
l c&vr p	1S0 1	62- 42	62- a.	62467	62- . S	SR11	dDl
l c&vr p	1S. 1	a. 1- 6	6S24.	a. 41-	a. a. .	SR.0	dDl
l nocmb	2- 2	60S77	672a2	602. 0	60a46	SR.2	dDl
l TpnCTcmb	76 1	2Sa1. 7	212144	2Sa1. 0	2S0a1-	1R -	dDl
l TpnCTcmb	77 1	17714a0	1. a7- . S	1. 40- 42	1. 2. S6-	2R16	dDl
l m8mp	- 4 1	- 112a0	- S. 7- 0	- 11. 72	- 11S2a	SRa	dDl
Ar pecmb	1a. 1	. 0044a1	1SS22SaS	1S1S46S0	. . 60S- 6	1R02	dDl
Ar pecmb	1a. 2	4SaS- 07	4SaS1. 6	414a10.	4S71. 17	1R4	dDl
AGw8cmb	2S- 1	a7060	a. 7. 0	6S71S	a. 72a	1R01	dDl
AGw8cmb	2Sa 1	141240	142. 4S	144- 1a	1427- 4	1RS7	dDl
AcC	117 1	12a14	1201a	12747	126. 2	1R.2	dDl
AcTwCcmb	40 1	. 20aS	77a6a	7020a	7. a- S	- R2S	dDl
5 pwCcmb	2- 7 1	a40. 4	a- 421	aaS- 0	a4410	1R6S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 14	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67I	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J-4Ja2	&wTwMt8 :u wb r :J	S. 7qF UMRb

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	2S0- 02	2S- 4a.	2S21- 4	2S4- 22	1R -	dDl
YTTr pecmb	102 1	1. 1. 7	1. 0. S	1. . a0	1. 647	2RS-	dDl
YTTr pecmb	102 2	. S2a	. 1a.	. S2S	. S67	SR70	dDl
YTTr pecmb	106 1	1- - 6a	1- 6. .	1- a66	1- a4-	1R24	dDl
YTTr pecmb	106 2	10a- 4	10- - .	10- 07	10410	SRa.	dDl
YTTpcmb	7. 1	1- S42S7.	1- . S2a. 0	1- aa1a67	1- 4. 70a1	- R21	dDl
YTTpcmb	7. 2	14- 062.	14a- 70.	1427a7S	144SS- S	SR7.	dDl
ZcCd	66 2	1S6- 1.	1S762S	1S7- a7	1S006a	1R10	dDl
ZcpdnCcmb	. S 1	- 4167	- 4a7a	- 41a1	- 4- S1	SR02	dDl
ZcpdnCcmb	. 1 1	0244	7107	001.	001-	6RSa	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wo D8 Jt&Jal	y h SM 0	&8mTmCJMwdThpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb oCcmb	20 2	7- 06S4	72. 6: -	741: . 1	7- 6272	SR0-	dDI
qCTb nCE	121 1	4074	46S1	47- 4	404S	2R .	dDI
qpl r Ccl	0: 2	47- 7	4611	4607	40S.	2R47	dDI
Bwpcmb	1- : 1	: 2- 0: 2	: - - 162	: 27S24	: 27- 1-	SR7.	dDI
Bwpcmb	1- 0 1	. 1270:	. 44. : :	. 1. 2- 4	. 2: 677	1R7-	dDI
Br pE8mb	. 1	206:	276:	2022	2074	2R6-	dDI
Bdb mTG	2S. 1	67S2. 01	6746: 0:	0S. S7S4	6. 1- 4: S	2R24	dDI
Bdb mTG	2S. 2	- 2. 04SS	- 4- . 6: 0	- - : 7426	- - 6: 161	2R12	dDI
Bpmb oCr	71 1	74S-	7- 07	. 1- 0	76- .	4R .	dDI
9 wob cmb	1S7 1	22:	246	1. 6	222	11R S	dDI
9 wob cmb	1S6 1	41S1	4- 60	4- . 2	4270	- R0 0	dDI
9 wob cmb	111 1	1. 4S	17. 4	1. 4S	1. 2:	1R 7	dDI
9 w8lcmb	4- 1	24- 4S4	24. 41.	24: S77	24: . 0S	1R26	dDI
9 w8lcmb	44 1	426. 170	42. 61. -	4202: 44	420. - S7	SR 4	dDI
9 wpenC	12 1	- 0S04S.	- 7- - 4S.	- 722241	- 070676	1R74	dDI
9 wpenC	12 2	4: 040	4: 0- S	4: : 2.	4: 66.	SR20	dDI
9 G8hpcCr	- : 1	174: 4266	224S66S2	24S7706.	2164. 70.	1- R 6	dDI
9 G8hpcCr	- : 2	10772S	17- - . 1	1. SS. :	1741S2	- RS7	dDI
9 Gpmb cmb	: 2 2	6S- 20	: . 6. 0	: 71S1	: . - 0:	1R -	dDI
9 new8T	: . 2	0: 67S	0- . . 1	04627	04066	1R14	dDI
9 nDDr p	6- 2	126172	12- . 4:	12: 6- S	12: 2: 2	SR -	dDI
&El Dpnl cmb	1: 6 1	60. 1:	6. 04.	67707	67740	1R -	dDI
&El Dpnl cmb	1: 6 2	27727	272- 0	27410	274. 4	1RS6	dDI
Upecmb	164 1	: 0S: 0	: 7S44	: 74- 7	: 0746	1R2-	dDI
Upecmb	164 2	2- 0- :	2- 2: 0	2- S7S	2- - : 0	1R4:	dDI
Hwon8Ccmb	16S 1	6144-	6- 160	61. 4:	6217:	1R4-	dDI
Hwon8Ccmb	16S 2	2. - : 6	2. 4: 6	2. S. 2	2. - S1	SR64	dDI
h n8b cmb	16: 1	. 40047.	. 6S07- S	. . : 2: 7-	. 60. - S1	2R 4	dDI
h n8b cmb	16: 2	4170S7.	441. 42:	420200.	42. - S. 0	2R04	dDI
tCocmb	11: 1	6. 6110:	01267: .	02- - 6S2	01S0212	1R -	dDI
tCocmb	11: 2	. 66. 0S	1SS- 06.	. 66S. :	. 07. 4:	2R2S	dDI
tpnC	: 4 2	- 0. - - 41	- 72: - 4S	- 721242	- 71- - S7	SR46	dDI
tpnC	: 6 2	0S1- S6S2	67- 61622	6. 1. S6- 2	6. 22061.	1R27	dDI
tpnC	: 0 2	17S4S. 0	1001. - 1	17S: - 06	10. - 7S1	1RS6	dDI
KpEDThC	7- 1	- 4S	- 64	- 40	- : S	- R40	dDI
Lr wo	2S6 1	- - 0474	- 4: 4: 7	- 40- . 0	- 4- 446	1R -	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wb D8 Jt&JaJ	y h SM 0	&c8mTcnCJMwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	271: S2	27- 6. 4	270S00	274S. 1	SR.	dDI
Lr wo	2S7 1	1- 20- S0	1- - : 02:	1- : 4676	1- - . 2- .	1RS:	dDI
LcTGmb	6 1	2: SS1- 0	2: 061S4	26: : 0- 2	2: 00- 24	- RS2	dDI
y wgCr l cmb	24 2	1S22: 77	. . 10S6	1SS: . 17	1SS60- 0	1R 4	dDI
y wCgwCr l r	: : 2	1. . . 6. 6	1. 4S4. -	1. 0S1: 1	1. 0S114	1R S	dDI
y n8Eeor Cmb	. 4 1	2- 4. :	24071	24: 7S	24276	2R7:	dDI
y n8Eeor Cmb	. : 1	0120	0400	0600	0420	- R0:	dDI
y n8Eeor Cmb	. 6 1	11177	11764	110S:	11: 76	- RS:	dDI
y n8Eeor Cmb	. 0 1	4- 74	4. S.	4: 67	462S	: R00	dDI
y n8Eeor Cmb	. 7 1	1147.	11702	11: 02	11644	1R0-	dDI
u r noEb cmb	1: S 1	1S. 611	111. : 0	11107-	111110	1R17	dDI
u r noEb cmb	1: S 2	- 4467	- 2. 61	- 26. 0	- - - 0:	2R76	dDI
u cdkr 8	6S 2	4746.	47: 12	47016	47: 66	SR20	dDI
NGhl DGhpml	- 1 2	- 2. 2	- - - 4	- 6. 2	- 4- .	6R .	dDI
NnTwl l cmb	- . 2	- 2- 1SS	- - 2: 02	- 2: 6: .	- 20111	1R S	dDI
F Ghocmb	1S- 1	67: . 276	0S1. S62	01: S: 62	0SS. 6- 0	2RS7	dDI
F Ghocmb	1S- 2	- 2S4S6-	- - 74- S0	- 2- : S26	- 204466	2R 4	dDI
I dwCocmb	4: 1	461S011	40102- :	46. : - 12	460441.	1R2S	dDI
I dwCocmb	4: 2	144010	1: 4S12	146. 2.	147: : -	- R20	dDI
I r 8 Ccmb	72 1	411	4S1	42S	411	2R27	dDI
I r 8 Ccmb	00 2	12-	12-	1: 0	1- 4	14R 1	dDI
I r 8 Ccmb	07 2	1- :	11.	141	1- 2	7R64	dDI
I c&dnC	27 1	1S4240- 2	1S7S06. :	1S- 741: .	1S: - 7762	2R22	dDI
I c&vr p	1S0 1	2S- 4	2S: S	2S0:	2S: -	1RS2	dDI
I c&vr p	1S. 1	1. 74	210:	100:	1. 07	1SR12	dDI
I nocmb	2- 2	26S: 16	2: 4. : 0	2: 6622	2: 0- 6:	1R1	dDI
I TpnCTcmb	76 1	2S1: 21	2S174-	2S2: 02	2S1. 0.	SR20	dDI
I TpnCTcmb	77 1	17- 0: 6-	1746: 70	1707- - .	17: 416-	1R16	dDI
I m8mp	- 4 1	- - 01. 2	- - 71- 7	- 2. . S2	- - : S00	1R 4	dDI
Ar pecmb	1: . 1	. 0S2S12	1S10S0SS	1S- 6: S7S	1SS0. 264	- R 7	dDI
Ar pecmb	1: . 2	41- . - : 7	42716. 0	41- 6060	417: . 41	1R 7	dDI
AGw8cmb	2S- 1	- 1: .	- S60	- S60	- S. 7	1R01	dDI
AGw8cmb	2S: 1	0607	04: 2	046.	0: - -	1R60	dDI
AcC	117 1	117: 6	117S:	11. 7.	1177-	SR7S	dDI
AcTwCcmb	40 1	61SS:	6- : SS	61624	62S4-	2RS.	dDI
5 pwCcmb	2- 7 1	0- 0S6	04. : :	0446S	04- 04	SR7:	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pJa	LB1264S0	3 Dr pwThpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wb D8 Jt&JaJ	y h SM 0	&8mTmCJMwdThpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	: 1 2	1SSS60	. 04S:	. 0742	. 74- 7	1R4:	dDI
YTTr pecmb	102 1	1716-	17- 21	176- S	17- 02	1R2.	dDI
YTTr pecmb	102 2	7. 42	76- 1	76. 2	70: :	1R77	dDI
YTTr pecmb	106 1	12. 2-	122: 6	1- 1: 0	1200.	-R66	dDI
YTTr pecmb	106 2	10: 60	1027.	10SS6	10270	1R62	dDI
YTTpcmb	7. 1	1- 22: - 0:	1- : 22. : S	1- 6. 071:	1- 472S40	1R00	dDI
YTTpcmb	7. 2	141. 412	14604: 0	1442771	144- 2: S	1R66	dDI
ZcCd	66 2	: 00- 1	: 6. . 7	: 6S. 1	: 6. 4S	1R44	dDI
ZcpdnCcmb	. S 1	: 64. .	: 6- : 6	: 04S2	: 60: 2	1RSS	dDI
ZcpdnCcmb	. 1 1	12- 64	121- 1	12. 4S	12407	-R 4	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	6y4262	6y17S4	647y4S	6y1y- y	SU44	ql w
cn&Amonh	121 1	4EyE	yS67	4E67	4EE7	1U21	ql w
crwenAq	0y 2	- 174	- S60	- 1E4	- 147	2U24	ql w
BsrAm	1- y 1	- 12- 2y	- 1676S	- 10EEE	- 1y027	SUEy	ql w
BsrAm	1- 0 1	y6217y	yy7ESy	y66y1S	y62y- 4	SU67	ql w
BerhRAm	E 1	2- 26	2- 7S	222S	2- SE	- Uy-	ql w
BAmu&G	2SE 1	6E7770E	0S07- 1y	60yy126	6E4S00-	2U4S	ql w
BAmu&G	2SE 2	- 1E0y42	- 117- 42	- 2- y101	- 17- 67y	1U70	ql w
BromAne	71 1	7276	7276	7461	7- 44	1U21	ql w
RsOmAm	1S7 1	277	- 42	2- -	277	17U74	ql w
RsOmAm	1S6 1	42E2	4SS1	4S- 4	41SE	- U7E	ql w
RsOmAm	111 1	- SS0	27y0	- 12S	2EEy	4U4S	ql w
RsRqAm	4- 1	242662	2- Ey21	2- 6SES	2- E424	1U0	ql w
RsRqAm	44 1	41E2EyS	4S00622	4S6E24y	411- 202	1U67	ql w
Rsrbon	12 1	00- y6- 4	7S67y07	711SE10	0E0101S	2Uy7	ql w
Rsrbon	12 2	E6006	E0471	E7- 70	E0y47	SU7-	ql w
RGRorAne	- y 1	1E6417ES	224y- 20E	2- E71717	22S2y662	EUEE	ql w
RGRorAne	- y 2	10y614	17S- - 0	171- S7	10ES76	1U0S	ql w
RGromAm	y2 2	422y2	42262	42S12	4210y	SU4	ql w
RobsR&	yE 2	- 4yyy	- 4y4y	- - 4y6	- 4176	1U7y	ql w
RoI I er	6- 2	700E-	70EE7	77611	771- 4	SU47	ql w
t hwI rowAm	1y6 1	yEE1E	61007	yEySE	6S4S2	2USS	ql w
t hwI rowAm	1y6 2	2y772	2y474	2y244	2yy- 0	1U26	ql w
. rbAm	164 1	4716-	4002S	4017y	4067E	1US-	ql w
. rbAm	164 2	1701-	1ESy0	1E2S0	17EE-	1U-	ql w
HsOoRAm	16S 1	y- 6S7	y4y7S	y- 0E-	y- EE-	SUE6	ql w
HsOoRAm	16S 2	2yy- 7	26122	2y4E4	2y017	1U6	ql w
9 oRmAm	16y 1	1SS7646E	1S111612	EESy0ES	1SS- 4624	1U12	ql w
9 oRmAm	16y 2	4101ESy	4S02277	412Syy4	4121y72	1U21	ql w
DrOAm	11y 1	02EE14y	0222210	0SE17S1	02S4- 77	1U4y	ql w
DrOAm	11y 2	E406y2	ESy70-	E42170	E- 1ES4	2U44	ql w
Don	y4 2	26- S- 77	2602702	2y446EE	261yE76	2UyS	ql w
Don	y6 2	47E- 227S	40620- 6y	466- 2E6E	400- S701	2U42	ql w
Don	y0 2	114S6E0	114- ySE	111760E	11- 42Ey	1U2S	ql w
KrhI &on	7- 1	- y4	- - 2	276	- 24	1SU6y	ql w
LesO	2S6 1	- E- 226	- EE- SS	- 7y70S	- E20EE	1U01	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- 24- y0	- 2- 7E2	- 21E- 4	- 2- - E4	SU4S	ql w
LesO	2S7 1	1y16ES4	1y46761	1y17002	1y20y1-	1U1S	ql w
LA&GAum	6 1	2677726	26- 664E	26Sy7S0	264- 061	1UyE	ql w
5 sgnewAum	24 2	0Sy724	014- S7	012- 21	01S710	SU62	ql w
5 sngsnewe	yy 2	4E212E	47y6E7	47246S	476062	1US1	ql w
5 oPbOenum	E4 1	10y4y	100S-	10662	106- 0	SU40	ql w
5 oPbOenum	Ey 1	607y	6- E-	606S	6646	- U S	ql w
5 oPbOenum	E6 1	E0Ey	E- 27	E712	E64y	2U7y	ql w
5 oPbOenum	E0 1	4- 10	4- - 4	4Sy1	42- 4	- U06	ql w
5 oPbOenum	E7 1	11SE6	1S7S4	1S446	1S072	- US2	ql w
NeoOhmAum	1yS 1	1S10y6	1S- 0yE	1S2702	1S20E6	SUE7	ql w
NeoOhmAum	1yS 2	- 1y00	- 1601	- Sy- 1	- 126S	2US2	ql w
NAqkeP	6S 2	217E0	221S4	2177S	21E6S	SUy0	ql w
8 GowI Goruw	- 1 2	0- 6E	0S1S	6E7y	0121	- US1	ql w
8 o&swwAum	- E 2	4E4SSS	yS40S7	4E2ES0	4E02Sy	1U 1	ql w
CGoOAum	1S- 1	02- 4676	0- 2- SS-	0S642- 1	02S0- S0	1U7-	ql w
CGoOAum	1S- 2	- 2- 7SS2	- S70- 02	- 2- S- - y	- 17y2- 6	2U66	ql w
pqsnOAum	4y 1	40- - - 17	46EE176	44Ey7y1	464207y	2U00	ql w
pqsnOAum	4y 2	14410y	1- 60- E	141667	14S761	2U6E	ql w
pe&enAum	72 1	1y6	172	222	170	10U7-	ql w
pe&enAum	00 2	1S0	1S0	12-	112	7Uy0	ql w
pe&enAum	07 2	E6	7E	7E	E1	4U42	ql w
pAAqon	27 1	E02S17E	E0- 47- E	E7- - 04S	E062E2-	SU6-	ql w
pAPer	1S0 1	- 2SS	- 7S1	- 0E2	- yE7	EUy0	ql w
pAPer	1SE 1	- 610	- 7E2	- - 06	- 627	0U1-	ql w
poOAum	2- 2	614Sy	62S0-	6S66S	61- 7S	1U1y	ql w
p&ona&Aum	76 1	104277	16E- 61	10yy67	10- S02	1U7E	ql w
p&ona&Aum	77 1	161- 2- 0	1y0Sy- 0	16Sy716	1yE6y- S	1U4-	ql w
pulPur	- 4 1	2E7y40	2E02- y	2E- 6S6	2E6462	SU76	ql w
i erbAum	1yE 1	1S2yE167	1S2y6Ey6	E0467y4	1SS706yE	2UE-	ql w
i erbAum	1yE 2	411EE2-	- E27y70	4S71404	4S4- - 27	2UyS	ql w
i GsPAum	2S- 1	2142	2- 74	2- yE	22Ey	yU0E	ql w
i GsPAum	2Sy 1	yy67	y4S1	y- S1	y424	2U47	ql w
i An	117 1	1- 64E	12EE7	1- - 24	1- - 2-	2U44	ql w
i A&snAum	40 1	E2ES1	E62E7	E4- - y	E4y11	1U7S	ql w
MrsnAum	2- 7 1	626Sy	6- 7Ey	64471	6- 66S	1Uy1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFy7	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	6y44y	64441	6- 47-	644y0	1Uy2	ql w
Y&erbAum	102 1	1yS- 4	1412y	1- 6EE	14276	4U00	ql w
Y&erbAum	102 2	66S2	0S7S	66- S	600S	- UE6	ql w
Y&erbAum	106 1	1S2E6	1S22E	1Sy- S	1S- y2	1Uy2	ql w
Y&erbAum	106 2	1y20S	1y- 71	1y0- 0	1y46-	1Uy7	ql w
Y&&Aum	7E 1	1- 722- 7y	1- 720y16	1- S1y116	1- yyySS6	- U4y	ql w
Y&&Aum	7E 2	1- 27S- 1	12y76EE	1- S- 770	12E6702	2U01	ql w
ZAnq	66 2	02E- S	040yE	0- 46E	0- 01E	1U27	ql w
ZAqonAum	ES 1	- 7y12	- 711E	- E171	- 76S4	1UJE	ql w
ZAqonAum	E1 1	70S-	77y-	7y27	76Ey	1U70	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 447 S0	Dw&umne&Nsme:J	8 7
RRen&psmI Re:D :J	5 9 SFyh	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	0hS206	07y- 1y	0h- 646	07h046	SUy-	ql w
cn&AmonE	121 1	41y1	42h2	40- 4	4- h2	6Uh-	ql w
crwenAq	0y 2	- h- 6	- hS1	4S4S	- hyh	1U7-	ql w
BsrAm	1- y 1	- h- - 42	- h1100	- hS4h-	- h1601	SU7	ql w
BsrAm	1- 0 1	676071	0SS21y	6hhS20	6hy- 41	1US0	ql w
BerEPAm	h 1	2744	27hy	2771	270-	SUh2	ql w
BAmu&G	2Sh 1	6h7S02h	02626hh	01h- 76-	014y064	2US6	ql w
BAmu&G	2Sh 2	- 21y144	- - 1077S	- - y66y2	- 2h6yyh	2U22	ql w
BromAne	71 1	7S1h	72h4	h20S	7y27	0U01	ql w
RsOmAm	1S7 1	277	- 21	201	2h-	7U6h	ql w
RsOmAm	1S6 1	44- 4	4- 60	4S10	420-	yU24	ql w
RsOmAm	111 1	- h17	- 0y4	- 7SS	- 724	2U2S	ql w
RsRqAm	4- 1	- 1610h	- 17yy0	- 162- S	- 16h77	SU4-	ql w
RsRqAm	44 1	y- 64- 01	y- 046h4	y2h6S46	y- 4yS- 0	SU7S	ql w
Rsrbon	12 1	47- 7S4h	4hh177y	yS742y7	4h01- h0	2UyS	ql w
Rsrbon	12 2	6S6h2	61- 70	6121h	611SS	SUyh	ql w
RGPrAne	- y 1	170h0S60	216hS22h	2- - 7477h	212hS027	1SUhS	ql w
RGPrAne	- y 2	10- SSh	10041S	171740	100422	2U4h	ql w
RGromAm	y2 2	y2- yh	yShyS	y1yy2	y1621	1U0	ql w
RobsR&	yh 2	46- 6y	402- 7	4y04-	4644h	1U62	ql w
RoI I er	6- 2	h1- 72	h1- 6y	h1S4S	h1262	SU21	ql w
t EwI rowAm	1y6 1	0641h	0602h	00hhy	00S47	1US7	ql w
t EwI rowAm	1y6 2	- 1771	- 1771	- 1S6-	- 16S7	1UyS	ql w
. rbAm	164 1	y740S	yhh1S	yhhy2	yh444	1U42	ql w
. rbAm	164 2	2- y17	2- h2y	2- 611	2- 67y	SUhS	ql w
HsOoPAm	16S 1	6y7- h	60hS0	6727-	60- 4-	1Uhy	ql w
HsOoPAm	16S 2	- 1260	- 1y- 0	- 1- 00	- 1- h4	SU4-	ql w
9 oPmAm	16y 1	1S2y4hh-	h7h4711	hhSh47S	1SS1h061	2US-	ql w
9 oPmAm	16y 2	4S6S0S6	41h7y2-	42y67S1	4102S1S	2U41	ql w
DnOAm	11y 1	010- 1y-	02Sh7h0	0200126	022SSyh	SU0-	ql w
DnOAm	11y 2	h61S26	h42677	hy211S	hy1h41	SUh6	ql w
Don	y4 2	- S2ShhS	2h- 101y	2hyy2- S	2h6h- 12	1Uy6	ql w
Don	y6 2	y- 4hS7h6	y- 41S- SS	y2- 0y6- h	y- Sh2207	1U10	ql w
Don	y0 2	1- 6h0hy	1207S76	12yyS- 7	1- SSh0-	4U60	ql w
KrE I &on	7- 1	- - y	- - y	- 16	- 2h	- U2h	ql w
LesO	2S6 1	402147	47hS1y	47yh17	472- 6S	1U76	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S0	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyh	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- hhh- 0	- h- 042	- hh7y6	- h074y	SU7h	ql w
LesO	2S7 1	170- y4S	17h016-	1770076	177616-	SU6-	ql w
LA&GAum	6 1	2640646	264- 41S	262y60-	26- 7hSh	SU44	ql w
5 sgnewAum	24 2	70741-	70- hhS	76h- yS	70- h17	SUy2	ql w
5 sngsnewe	yy 2	0667S2	04602y	042467	0y1hh7	1U0-	ql w
5 oPEbOenum	h4 1	14616	16S06	16117	1y6S4	yU47	ql w
5 oPEbOenum	hy 1	6S26	y04-	62S2	yhhS	- U76	ql w
5 oPEbOenum	h6 1	7707	7027	7hy-	77y-	1U2h	ql w
5 oPEbOenum	h0 1	- - 60	4160	- 7- 4	- 0hS	1SU61	ql w
5 oPEbOenum	h7 1	h4y4	1SSS4	h74y	h067	2UhS	ql w
NeoOEmAum	1yS 1	1- - - 16	1- Sh- h	1- S1- 2	1- 146-	1U26	ql w
NeoOEmAum	1yS 2	- 70y6	- h2S0	- h477	- h1y1	SUh4	ql w
NAqkeP	6S 2	20074	201hh	20S7h	20- y7	1U-6	ql w
8 GowI Goruw	- 1 2	4h4-	y2- 4	y1Sh	yShy	2U70	ql w
8 o&swwAum	- h 2	42S011	4104- 2	41h7y7	41h- - -	SU41	ql w
CGoOAum	1S- 1	017y660	02- S116	0S61174	01y7h7h	1U22	ql w
CGoOAum	1S- 2	- 201y7h	- 2y- ySh	- 2y2- S1	- 2yh1- -	SU-	ql w
pqsnOAum	4y 1	47S66S7	46- 0hy-	46- 467-	46h- S71	2U1S	ql w
pqsnOAum	4y 2	14447y	144y76	146hS0	14y- 26	SUh4	ql w
pe&enAum	72 1	2SS	106	2S1	1h2	0U2	ql w
pe&enAum	00 2	140	14S	16-	1yS	7US1	ql w
pe&enAum	07 2	11h	12y	11S	117	6U4S	ql w
pAAqon	27 1	1246S- 2S	126Sy1h0	12y2- - 11	12y2h6Sh	SUy7	ql w
pAPer	1S0 1	yhy1	6- - y	y767	6Sy1	4U11	ql w
pAPer	1Sh 1	yy4-	y- - y	yh67	y61y	yU0y	ql w
poOAum	2- 2	1124S7	112610	111hh0	112- 41	SU27	ql w
p&ona&Aum	76 1	1h- 114	1h- 2S1	1h0177	1h4yS1	1U2S	ql w
p&ona&Aum	77 1	106h2h2	1064S4y	107Shy4	10014- S	SU4h	ql w
pulPur	- 4 1	272y04	2722y7	274h6S	27- 264	SUy2	ql w
i erbAum	1yh 1	1Syyhyy1	1S4y2y6h	1S217h- -	1S41S- y1	1U60	ql w
i erbAum	1yh 2	4S04yh4	4ShyS14	41066hy	411y4- 4	1U-1	ql w
i GsPAum	2S- 1	2642	2742	2642	20Sh	4U26	ql w
i GsPAum	2Sy 1	6- 6S	67h4	02h4	674h	6U74	ql w
i An	117 1	11SSy	112h0	11S01	11124	1U-7	ql w
i A&snAum	40 1	0116S	01- 6h	011h4	01241	SU16	ql w
MrsnAum	2- 7 1	yh- y6	61424	yh04h	6S100	1U7-	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb:psml Re:D :J	3 - 447 S0	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFyh	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	041S4	0- 410	0- S6h	0- y- S	SU02	ql w
Y&erbAum	102 1	10412	104S4	1060h	104h7	SUhS	ql w
Y&erbAum	102 2	720y	7y40	7771	7y67	- Uy4	ql w
Y&erbAum	106 1	12S7h	1- - 1y	1- S- 2	12712	yUS1	ql w
Y&erbAum	106 2	1667-	1607-	10174	1677-	1Uy0	ql w
Y&&Aum	7h 1	1- h1y- 26	1- 62S17y	1- yy0S07	1- 6h0y- S	1U4S	ql w
Y&&Aum	7h 2	14yS2h4	1- - 7yy4	14112h2	14SSS40	4USy	ql w
ZAnq	66 2	6h114	60h4y	6h167	67042	1USS	ql w
ZAqonAum	hS 1	- - 67-	- - S71	- - y24	- - 4- S	SUh-	ql w
ZAqonAum	h1 1	0144	0S20	0y- 6	02- y	- U67	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	aSaS- 1	aS2- a4	4hh- aS	aS224a	SM40	dDl
qCTb nCE	121 1	647a	67a2	6a20	6621	- N8-	dDl
qpl r Ccl	0a 2	- 160	- 14h	- 2- S	- 172	1M4	dDl
Bwpcmb	1- a 1	- aS16h	- 4h4- S	- a021-	- a220S	1M42	dDl
Bwpcmb	1- 0 1	61- h06	6- S44h	626h01	62- 0hh	1Mh	dDl
Br pE8mb	h 1	40S1	4a76	4674	46a0	1M-	dDl
Bdl b mTG	2Sh 1	01aS1S-	046072S	66h0110	01SaS1-	aM4a	dDl
Bdl b mTG	2Sh 2	- - 46274	- - 1- - 76	- 22h6- 2	- 2h64- 4	1M72	dDl
Bpmb cCr	71 1	026S	02- a	0a61	0- a2	2M46	dDl
5 wob cmb	1S7 1	22h	27-	20h	264	11M42	dDl
5 wob cmb	1S6 1	4S10	46a1	- hS1	41hS	hM04	dDl
5 wob cmb	111 1	2610	2a42	2aS-	2aa4	2M46	dDl
5 w8lcmb	4- 1	177274	176767	1hS2- 0	17746-	SM1S	dDl
5 w8lcmb	44 1	- 10a066	- 22a617	- 166- - 2	- 17h2- 7	1N8S	dDl
5 wpenC	12 1	4hh7221	a114- 0h	a- Sa127	a1- h24-	- N82	dDl
5 wpenC	12 2	6- 064	61a6-	6212-	6247-	1M7-	dDl
5 G8hpCr	- a 1	1hh11S- 0	2- 24740a	2a1h- 7S1	220744- 7	11M0-	dDl
5 G8hpCr	- a 2	17a140	1766a1	1h101a	1707- 7	1M7-	dDl
5 Gpmb cmb	a2 2	27S17	204SS	26017	20- 0h	2M0	dDl
5 new8T	ah 2	2hSa-	27a02	276hh	2700a	SM70	dDl
5 nDDr p	6- 2	722S-	71h17	7S161	71420	1M6	dDl
&El Dpnl cmb	1a6 1	haah2	ha102	hhSa7	h66S0	2M21	dDl
&El Dpnl cmb	1a6 2	- hS0S	- 7a02	- 71a7	- 76SS	1M17	dDl
Fpecmb	164 1	67206	60640	6hS21	67- 1a	1N81	dDl
Fpecmb	164 2	26a0-	266h4	2ah- a	264S1	1M44	dDl
Hwon8Cmb	16S 1	0hSa1	71122	71aSS	7Saa7	1M64	dDl
Hwon8Cmb	16S 2	- 7SS0	- 6a74	- 6- 2-	- 6h01	2M4a	dDl
y n8b cmb	16a 1	1SS7a4h-	1S62- 7ha	h26h624	hhh- SS4	6M72	dDl
y n8b cmb	16a 2	4- - 1472	421477h	42Sh12a	42a17- 2	1M62	dDl
tCocmb	11a 1	02212- 7	0661a0a	67a061h	0246711	aM46	dDl
tCocmb	11a 2	ha0a20	haah- 4	h4- - 4S	ha2260	SM72	dDl
tpnC	a4 2	2S- 12h2	2S6Sh14	2S46420	2S46211	SM02	dDl
tpnC	a6 2	- 6472270	- 6h2247-	- 60S760S	- 60S447S	SM8S	dDl
tpnC	a0 2	7ah111	76aa1a	76a7S1	76- 406	SM44	dDl
KpEDTnC	7- 1	- - 0	- - a	- 24	- - 2	2M21	dDl
Lr wo	2S6 1	ah6440	ah76S0	6S4aSh	ahh7aa	SM0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :uwb r :J	1S2q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	4h21- -	4hhS- 1	aSSS24	4h0S6-	SM16	dDl
Lr wo	2S7 1	2- ah600	2- 46- S4	2- 62007	2- a62a-	SM10	dDl
LdTGmb	6 1	2a71226	2022S07	24- - 0S7	2a0hSS4	aM4h	dDl
9 wgCr l mb	24 2	4- h1- a	4- - h7S	4- h727	4- 0640	SM0-	dDl
9 wCgwCr l r	aa 2	6716ah	67- 06-	6711aa	6721h2	SM2S	dDl
9 n8Eeor Cmb	h4 1	- aa2h	- 6S7h	- 6h66	- 61ha	2M8S	dDl
9 n8Eeor Cmb	ha 1	h10S	76ha	70S-	77a6	- M80	dDl
9 n8Eeor Cmb	h6 1	1427-	14h10	14- - -	14a11	2M4-	dDl
9 n8Eeor Cmb	h0 1	4017	4h- 4	4067	47S0	2M6	dDl
9 n8Eeor Cmb	h7 1	14S- 2	14241	1- 4hS	1- h21	2M07	dDl
u r noEb cmb	1aS 1	167a6S	166h14	167a20	167SSS	SM46	dDl
u r noEb cmb	1aS 2	4h467	aS4h2	4hS6-	4h604	1M47	dDl
u cdkr 8	6S 2	1- 1Sh	1- SS6	1- 1S-	1- S0-	SM44	dDl
NGhl DGhpml	- 1 2	4206	4Sah	44ah	426a	4M0S	dDl
NnTwl mb	- h 2	441614	44S0aa	4- a27a	4- h217	SM07	dDl
. Ghocmb	1S- 1	676S12a	0aS022S	64h61ah	6ha4aS1	0M6	dDl
. Ghocmb	1S- 2	- 247626	- 2SS4h-	- 202760	- 24S662	1M14	dDl
l dwCocmb	4a 1	4620202	aSS60hh	4- h12h-	460a121	6M64	dDl
l dwCocmb	4a 2	14a17S	14- 7Sa	14S1aS	14- S4a	1M72	dDl
l r 8 Cmb	72 1	2- a	1h2	2Sa	211	1SM6	dDl
l r 8 Cmb	00 2	1a0	21S	1a0	104	10M6a	dDl
l r 8 Cmb	07 2	1- 6	12h	1- a	1- -	2M74	dDl
l 8dnC	27 1	0h6ahh7	7S21S2S	0h42a- S	0h06a16	SM41	dDl
l 8vr p	1S0 1	1- 1S0	1- 2- 2	1- - 4S	1- 226	SM77	dDl
l 8vr p	1Sh 1	1240-	1- a24	12471	12726	4M01	dDl
l nocmb	2- 2	- ha77	- 766h	- hSa-	- h1S-	1M17	dDl
l TpnCTcmb	76 1	142a4h	1427Sh	14ah0a	14- 007	1M-	dDl
l TpnCTcmb	77 1	12- 6106	124S40a	122aa10	12- 4Sa6	SM62	dDl
l m8mp	- 4 1	27126a	2720a-	27S111	271- 06	SM40	dDl
Ar pecmb	1ah 1	hh- a0- h	11S414a0	h42h4hh	1S1- aa6a	7M-	dDl
Ar pecmb	1ah 2	41- 060h	4Sa12a4	4S- h1h2	4S06S42	1M2	dDl
AGw8mb	2S- 1	20aS	2aSS	2660	26- h	4M72	dDl
AGw8mb	2Sa 1	64- a	6S20	627a	624h	- M1	dDl
AdC	117 1	2SS04	1h- a6	2S1hh	1h706	2M2h	dDl
AdTwCmb	40 1	2- 22h2	2- 2- 00	2- S04-	2- 17S4	SM4S	dDl
RpwCmb	2- 7 1	1S00a0	1S- 411	1S4S00	1SaS71	2M-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	aSS- 1	4h760	4hh4S	4hh46	SM16	dDI
YTTr peomb	102 1	170h0	1h- 47	17221	1707h	- N8S	dDI
YTTr peomb	102 2	hSh2	7671	7h2S	77h7	2M2	dDI
YTTr peomb	106 1	141- -	12h72	1- 0a0	1- 624	4M1	dDI
YTTr peomb	106 2	10127	166h4	160Sa	16742	1M40	dDI
YTTpomb	7h 1	14S4- 21h	14h16111	12h- 100h	1- h6- 0S-	0M12	dDI
YTTpomb	7h 2	1- a4ahS	14S461-	1- - 2a77	1- 6- h- S	2M01	dDI
ZdCd	66 2	72- S4	726- 6	7Sa24	71721	1Mh	dDI
ZqpdnComb	hS 1	76721	7- 47-	7- 1aa	74476	2M4S	dDI
ZqpdnComb	h1 1	17677	177aa	17046	1706-	SM4a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pIl iCIJa	wl P8 l N
LI r JDl e t NJ&TJaJ	3 - 447 S:	& FIlbe . piJml e pJa	u7
9 Np. iJDl e t NJ&TJaJ	y h SM61	TdbiqC. JM OCIJa	1
TI ipJAJcqe pJdOobdpnJa	2S2- S0 12J10asSaS4	TI il MdbJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	7- 01- -	7- 2: s7	72: 22-	7- - 1Ss	SR47	O P
d. iqe C. E	121 1	2s0s7	24s47	2s: 60	2s424	- RS1	O P
dIPp. qO	0s 2	124s0	1244s	12s67	124: S	SR34	O P
Bl dpe	1- s 1	042677	026402	026- : 6	0- 17s2	1R27	O P
Bl dpe	1- 0 1	1- 1- : 77	1- SS- 46	1- Sss61	1- S66- 2	SR3-	O P
BplENbpe	: 1	6S1-	6221	61- 2	6122	1R0S	O P
BqPe biG	2S: 1	6772126	02S0: : 4	6: 24- S4	0SS47S7	2R3-	O P
BqPe biG	2S: 2	- 264- 7-	- 26- s- 6	- 214ss-	- 2404: 1	SR77	O P
BlCe q p	71 1	0ss2	7S11	07: 4	071:	- RSs	O P
9 l ne dpe	1S7 1	- 42	- 77	- 42	- s0	0R41	O P
9 l ne dpe	1S6 1	4- S:	4ss1	4s17	44s:	2R 4	O P
9 l ne dpe	111 1	- 060	- 07S	- : 06	- 741	- RS4	O P
9 l NDdpe	4- 1	- 7s17s	- : 2S2:	- 7: 241	- 7771:	SR7:	O P
9 l NDdpe	44 1	6s7S76-	66ss167	6s700s:	66S0: - S	SR62	O P
9 l lr C.	12 1	- 667217	- 7S- 4: :	- 7- 41S:	- 0676S:	2R 4	O P
9 l lr C.	12 2	46- S0	4s: 64	40174	4647s	1R s	O P
9 GNDlq p	- s 1	1: - 4624S	22666: 64	24Sss26s	22S2272-	1SR:	O P
9 GNDlq p	- s 2	107S: 4	1722s6	174201	171s4S	1R04	O P
9 GlCe dpe	s2 2	610s:	61100	61S1-	61- 16	SR64	O P
9 Cr l Nl	s: 2	4- 7- 0	4- 127	44s: 6	4- 7s4	1R60	O P
9 Ct pl	6- 2	1: - S: -	1: - 0: s	1: - - s6	1: - 41s	SR47	O P
TEPt lCPdpe	1s6 1	1- - 12s	1- 1267	1- 2: S:	1- 24- 4	SR00	O P
TEPt lCPdpe	1s6 2	s4772	s- s: 4	s40- s	s44S4	1R S	O P
Ulr dpe	164 1	: - 0: 0	: s670	: - s- 7	: 4- 41	1R24	O P
Ulr dpe	164 2	- 0s: 0	- 0771	- 016s	- 0s47	SR 6	O P
Hl nCNq dpe	16S 1	111S07	11S17S	111000	111S12	SR02	O P
Hl nCNq dpe	16S 2	s12ss	s11s1	s1760	s1424	SR0s	O P
h CNe dpe	16s 1	: 41274-	1SS17s67	1S1- 01- -	: 7s6171	- R 4	O P
h CNe dpe	16s 2	4- 1S424	42s7Ss0	4- S- S: S	42: Ss24	SR66	O P
& ndpe	11s 1	60- 6S6s	017: s06	0270- 22	0S0S: 77	4R16	O P
& ndpe	11s 2	: s4- 44	: - 7s: :	: 4: 1: 2	: 40- 0:	SR7s	O P
&C.	s4 2	- 4s201s	- 4S27s1	- 4s: Ss4	- 4- 72S0	SR S	O P
&C.	s6 2	621SS7- s	6272: s72	610617: 0	622- S001	SR77	O P
&C.	s0 2	1621000	162S6S7	161: s41	162S642	SRS0	O P
KIEt iC.	7- 1	- : s	- 60	- 04	- 0:	- R71	O P
Lpl n	2S6 1	1: s4747	1: - S070	1: 06- 4S	1: s- : : 2	1R10	O P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iCIJa	wl P8 l N
Ll r JDl e t Nb.J&TJaJ	3 - 447 S:	& FIlbe . piJml e pJa	u 7
9 Nb. iJDl e t NbJ&TJaJ	y h SM61	TdbiqC. JM OCIJa	1
Tl ipJAJcqe pJdOobdpnJa	2S2- S0 12J10asSaS4	Tl il MdbJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
LpI n	2S0 1	14s4640	146- 444	14s600:	14s72: S	SR 1	Q P
LpI n	2S7 1	046- 270	0s06604	0- 7: : 74	0406647	1R26	Q P
LqGdpe	6 1	2411- 17	26- 0: - 2	26- : 174	2s62711	sR12	Q P
y l g. pPdpe	24 2	7: 17- 1	70: 4: 4	776- 7:	77s: Ss	SR0S	Q P
y l . gl . pPp	ss 2	12- SS2S	122S02s	12- S422	1220Ss6	SR4s	Q P
y CNEr np. be	: 4 1	4: 471	4: 7: 7	47ss-	4: - 1S	1R4S	Q P
y CNEr np. be	: s 1	26- 26	26: 6S	26s: -	26626	1R2S	Q P
y CNEr np. be	: 6 1	- 4- S2	- sS2:	- s- 2S	- 4774	1R3S	Q P
y CNEr np. be	: 0 1	16420	16420	1044s	16066	- Rs1	Q P
y CNEr np. be	: 7 1	4262s	42: : -	4- 217	42: 4s	SR0S	Q P
mpOnEe dpe	1sS 1	220Ss2	2- S110	2- S1- 2	22: 1S1	SR00	Q P
mpOnEe dpe	1sS 2	6: S1S	67102	67ss1	67s07	SR61	Q P
mqDkpN	6S 2	2s4S-	244S7	24: - 2	24: 14	2RSS	Q P
uGCPt GCIbP	- 1 2	4274	4S06	4- S1	422S	2R.0	Q P
uCIl PPdpe	- : 2	4: 2: 02	47- 672	4: 1240	47: - SS	1RS1	Q P
FGCndpe	1S- 1	6006S0S	02s- S- 4	0S7s2- 1	0S- 7112	- R44	Q P
FGCndpe	1S- 2	- 2: S240	- 2s66s:	- 227: 0S	- 2s7626	SR.4	Q P
DCI . ndpe	4s 1	44s- S10	4017442	40264: 7	46- 26s2	- R6	Q P
DCI . ndpe	4s 2	14- s0-	144: 11	14- 742	1441S:	SR4:	Q P
DpNb. dpe	72 1	16:	20S	240	22:	2- R24	Q P
DpNb. dpe	00 2	22S	2s0	2sS	242	7RS6	Q P
DpNb. dpe	07 2	1s4	101	16-	16-	sR2-	Q P
DqNDC.	27 1	02: 416:	0- s: 4- 0	0421441	0- s7- 4:	SR76	Q P
DqNpl	1S0 1	1: 671	2SS- 2	1: ss6	1: 0s6	1R2s	Q P
DqNpl	1S: 1	1: 1ss	1: 140	1: 1: 0	1: 160	SR14	Q P
DCndpe	2- 2	70- 27	7s: 01	76: 16	760- 7	SR7S	Q P
DilC. idpe	76 1	- 11461	- 1s6- 6	- 1: 6s2	- 1ss7-	1R S	Q P
DilC. idpe	77 1	2: 1700S	2: S1471	27220S:	277S: 70	1R07	Q P
DbNbl	- 4 1	276676	277007	2: 1270	277: 10	SR7S	Q P
cplr dpe	1s: 1	: 762260	1S2s04S:	1S- ss1S0	1S1s7261	2Rs0	Q P
cplr dpe	1s: 2	4211067	4172S6S	4116706	410S2- s	1R16	Q P
cGl Nbpe	2S- 1	- 060	- 726	- : s1	- 747	2R44	Q P
cGl Nbpe	2Ss 1	: s: s	: 212	: 662	: 4: S	2Rs6	Q P
cq	117 1	ssS11	s- 12:	s- sSs	s- 772	1R7s	Q P
cql . dpe	40 1	2s470-	2s61s2	24042s	2s2710	1R76	Q P
5 ll . dpe	2- 7 1	11621s	11s666	116: 12	116264	SRs4	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iCIJa	wl P8 l N
Ll r JDl e t NpJ&TJaJ	3 - 447 S:	& FIlbe . piJml e pJa	u7
9 Npp. iJDl e t NpJ&TJaJ	y h SM61	TdpiqC. JM OCIJa	1
Tl ipJAJcqe pJdOobdpnJa	2S2- S0 12J10asSaS4	Tl il MdpJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
Vl . l ndpe	s1 2	: - 2S1	: 261S	: 1172	: 2- - 1	1R12	Q P
Yiiplr dpe	102 1	2606:	201- 0	20477	201- 1	1R 2	Q P
Yiiplr dpe	102 2	12: 62	12: s0	1200-	127: 0	SR7-	Q P
Yiiplr dpe	106 1	17s40	10: 46	17- : 6	172: 6	1R01	Q P
Yiiplr dpe	106 2	2Ss44	1: 606	1: 6S:	1: : 4-	2R61	Q P
Yiildpe	7: 1	1- s- 07S2	14- 4S2- 6	1410: 700	14S1: - Ss	- RS-	Q P
Yiildpe	7: 2	146- : : -	14s: 466	14- 072S	14s- 06S	SR 6	Q P
Zq O	66 2	12s644	1276: 2	1204: S	120206	1R21	Q P
ZdOC. dpe	: S 1	: - S6S	: S71-	: 200s	: 2216	1R -	Q P
ZdOC. dpe	: 1 1	2S6S0	2Ss66	21- s:	2S744	2R14	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t N:&T:J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 N. i:DI e t N:&T:J	y h SM62	T N iC. :M CICI:J	1
TI ip:A:cce p:dCobcpn:J	2S2- S0 12:10Ja2Jas	TI il MN:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
dN e q cpe	20 2	sS4422	772S44	77421s	7sS227	1R s	CI P
d. ice C. E	121 1	6044	6667	6220	6a46	4R20	CI P
dIPp. cO	0a 2	6224	6S46	6SS6	6Ss2	1R 1	CI P
BI Icpe	1- a 1	a6a64S	a67S4s	aa67- s	a6- aSs	1RSa	CI P
BI Icpe	1- 0 1	s70S1s	s6sa24	1SS2021	s76422	1R67	CI P
BpIENcpe	s 1	4221	4466	44- 1	4- 0-	- RS-	CI P
BcPe biG	2Ss 1	0277244	6s24441	67744s1	0S- 2- s2	- R16	CI P
BcPe biG	2Ss 2	- S60440	- 2s7661	- 1s6s11	- 17060-	- R64	CI P
BICe q p	71 1	6200	6117	a76S	6S7a	- R46	CI P
9 I ne cpe	1S7 1	1s6	1s6	17-	1s2	- R20	CI P
9 I ne cpe	1S6 1	44- 4	4026	41as	444S	6R 7	CI P
9 I ne cpe	111 1	2S1a	226a	2146	2142	aR74	CI P
9 I NCcpe	4- 1	1- 2- 420	1- 1sa2S	1- S4646	1- 1a764	SR0a	CI P
9 I NCcpe	44 1	2S7s1670	2122s22a	2114aSS6	21S7764S	SR7-	CI P
9 I Ir C.	12 1	47107a2	a11s- 71	aS076s4	aSSa- Ss	- R20	CI P
9 I Ir C.	12 2	62642	61a2s	6124a	617S6	1R1s	CI P
9 GNCIq p	- a 1	1saSas70	22- 7S1s1	24S42201	21s061aS	1SR44	CI P
9 GNCIq p	- a 2	1072- 7	172600	17a2SS	172S- 7	1R s4	CI P
9 GICe cpe	a2 2	aa617	a47sa	a- S07	a4a- S	2R4S	CI P
9 CrI N	as 2	644a2	64- S4	64- aa	64- 0S	SR12	CI P
9 Ct pI	6- 2	12S20s	11s4- 7	11s- 10	11s607	SR44	CI P
TEPt ICPcpe	1a6 1	s6- - 1	s62s0	sa1S4	sas11	SR0-	CI P
TEPt ICPcpe	1a6 2	4S- s1	- s40a	- ssaS	- ss- s	1R1a	CI P
UIr cpe	164 1	7- 2sa	070s2	0ssa7	7S672	2R sS	CI P
UIr cpe	164 2	- 16S1	- 2- 4s	- 1601	- 1704	1R S	CI P
HI nCNq cpe	16S 1	7- s22	7aa7-	74S24	74a1S	1R1S	CI P
HI nCNq cpe	16S 2	4Sa07	- 7746	- s46a	- s6- S	2R21	CI P
h CNe cpe	16a 1	1S06a26s	ssa4aSS	1S21S624	1S- 1S1- 1	4RS2	CI P
h CNe cpe	16a 2	4Sas7s-	4- 6a266	410s4s0	42S1aa2	- R66	CI P
& ncpe	11a 1	0407a42	02440s0	02441s7	0- 22a1-	1R7a	CI P
& ncpe	11a 2	sSs- 0s	s4s066	s- - s62	s- 1S- 6	2R1s	CI P
&C.	a4 2	4Sa2s7a	- s7S0sS	- s041sa	4SS26a0	1RSs	CI P
&C.	a6 2	04S701- a	02s0S2a0	0- S66a24	0- - 046- s	SR74	CI P
&C.	a0 2	17ss116	1701- 6-	17716- 0	1774S- 7	SR04	CI P
KIEt iC.	7- 1	- as	- a6	- 20	- 40	aRSS	CI P
LpI n	2S6 1	4- 6142	4- 6s71	440SSa	44SS42	1R 0	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T:J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Np. i:DI e t Np:&T:J	y h SM62	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdqpn:J	2S2- S0 12:10Ja2Jas	TI il MdNp:mI e p:J	1S4dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	- 62S41	- 62020	- 64S- 1	- 62s- -	SR27	OI P
LpI n	2S7 1	1014aa1	102- sS1	10420S-	1020Sa2	SR7-	OI P
LqiGdpe	6 1	20S2SS4	26174- 2	26S66- 2	2642- a6	1R30	OI P
y I g. pPdpe	24 2	41a1607	4Sa6- SS	414- S- S	4110SS-	1R27	OI P
y I . gI . pPp	aa 2	162- - S0	16S26s6	16S4244	161SS72	SR01	OI P
y CNEr np. be	s4 1	1sS7s	1s07s	2S26a	1s014	- RSS	OI P
y CNEr np. be	sa 1	11764	11saa	126s7	12102	- R06	OI P
y CNEr np. be	s6 1	1a64-	1aS0a	1a1SS	1a20-	2R1S	OI P
y CNEr np. be	s0 1	046s	041S	0076	0aaa	2R30	OI P
y CNEr np. be	s7 1	17s77	2S147	2S- ss	1s74a	- R0s	OI P
mpOnEe dpe	1aS 1	1a0211	1a6- S0	1a7- - 0	1a027a	SR3a	OI P
mpOnEe dpe	1aS 2	46s7s	40- - S	40- 00	402- 2	SR4a	OI P
mqOkpN	6S 2	- 766s	- 07s4	- 7217	- 726S	1RS2	OI P
uGOPt GOIbP	- 1 2	aa- a	a4S1	4s17	a274	6R14	OI P
uOI PPdpe	- s 2	aS146s	4s6- 7-	4s0sS1	4s7a74	SRa2	OI P
FGOndpe	1S- 1	0- 01asa	0S44070	6s1s141	0111741	- R27	OI P
FGOndpe	1S- 2	- S0166-	- 2122sS	- 16S7- 2	- 147261	2R26	OI P
DOI . ndpe	4a 1	472s6sa	466s- 47	460S01S	402- 2a1	1R3a	OI P
DOI . ndpe	4a 2	1- 0a46	146s74	14- ss4	142741	- R 7	OI P
DpNp. dpe	72 1	21S	2- a	26s	2- 7	12Rs	OI P
DpNp. dpe	00 2	100	2SS	220	2S1	12R44	OI P
DpNp. dpe	07 2	127	127	147	1- a	7Ra7	OI P
DqNOC.	27 1	11sa0S1a	12S6a0a-	12S627s0	12S27aaa	SRa2	OI P
DqNpI	1S0 1	- 7S1	4S06	42s2	4Sa6	6RS7	OI P
DqNpI	1Ss 1	- s10	41as	- 710	- s6a	4R4-	OI P
DOndpe	2- 2	1SS120	ss414	1SSas6	1SSS4a	SRas	OI P
DiIC. idpe	76 1	2s67s0	- S2s- -	- S- 641	- S11a0	1R2-	OI P
DiIC. idpe	77 1	20a- 6- -	2071aS0	20a104-	20622sa	SR6S	OI P
DbNbI	- 4 1	- - SSsa	- - as66	- 4271-	- - 62s1	1R7s	OI P
cpIr dpe	1as 1	1S721s64	1S1saa42	1S26S70-	1S426126	- R S	OI P
cpIr dpe	1as 2	- s606- s	4116S0-	4Ss4022	4Sas407	1R37	OI P
cGI NNpe	2S- 1	- 4Ss	- aS1	- - 42	- 410	2R -	OI P
cGI NNpe	2Sa 1	74- 6	7461	721s	7- 02	1Ras	OI P
cq	117 1	11s40	1107S	11s22	1177-	SR06	OI P
cqI . dpe	40 1	07616	076ss	006S2	07- S6	SR07	OI P
5 II . dpe	2- 7 1	7s101	7sa2a	767sS	77a27	1R62	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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LI r :DI e t Nb:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Nb. i:DI e t Nb:&T :J	y h SM62	T dbiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:10Ja2Jas	TI il MdbN:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndqe	a1 2	s- 712	s- 0S1	s2s46	s- 476	SRaS	OI P
Yiiplr dqe	102 1	247a0	26- S2	26220	2a0sa	- R1a	OI P
Yiiplr dqe	102 2	12aS6	12S- -	11s11	121aS	2Ra s	OI P
Yiiplr dqe	106 1	10- 12	100S4	10- a4	104a6	1R2-	OI P
Yiiplr dqe	106 2	17776	1ss1a	177a-	1s217	- R14	OI P
Yiild qe	7s 1	144Ss264	14S1- 6s6	142404Ss	1422- 4a6	1R4S	OI P
Yiild qe	7s 2	1- s22- s	14020- s	1- 4- - 62	14S207S	4R36	OI P
Zq O	66 2	776S1	7a707	7a00a	760a1	1R7a	OI P
ZdOC. dqe	sS 1	- 426S	- - S0-	- 4S60	- - 7SS	1R77	OI P
ZdOC. dqe	s1 1	7161	7- a-	04a2	0s7s	aR34	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :u wb r :J	1Saq . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb dCmb	20 2	60467h	60S1- a	66a24S	60SS22	SM01	dDl
qCTb nCE	121 1	0611	671h	0aS2	0- 1S	aM70	dDl
qpl r Cdl	0a 2	611h	6S74	6S67	6ShS	SM4-	dDl
Bwpmb	1- a 1	- 0Sh6S	- 017a6	- 7S01a	- 04a1S	1M44	dDl
Bwpmb	1- 0 1	6ah4S4	6a72ah	602627	66- 4- S	1M2S	dDl
Br pE8mb	h 1	2676	20S6	260h	26hS	SM4-	dDl
Bdl b mTG	2Sh 1	014h22-	6ha06S7	020h70h	0127hS-	2M20	dDl
Bdl b mTG	2Sh 2	- 1724h1	- - 207a4	- 246- 70	- 2a2244	2M24	dDl
Bpmb dCr	71 1	aaS1	aaS1	611S	a0S4	6M16	dDl
5 wob mb	1S7 1	1h6	10a	17-	17a	aM67	dDl
5 wob mb	1S6 1	46h-	41h2	44Sh	44- 1	aM06	dDl
5 wob mb	111 1	1h0S	1022	1h2h	1704	0M1S	dDl
5 w8lmb	4- 1	- - 7Shh	- - 0h06	- - 7S07	- - 7Sa1	SM82	dDl
5 w8lmb	44 1	a0aaS61	a076SS2	a026- h1	a0aa717	SM42	dDl
5 wpenC	12 1	- 1hS1aS	- 172a12	- 244776	- 2Sa74h	1M86	dDl
5 wpenC	12 2	- 0hh2	- 7242	- 7700	- 7- 0S	1M1h	dDl
5 G8npdCr	- a 1	2S61S427	2- 61Sh00	2aah20S6	2- 201- 0S	1SM07	dDl
5 G8npdCr	- a 2	17076a	17711S	1h- aa6	17h744	1M6h	dDl
5 Gpmb mb	a2 2	6770a	66722	660ah	6047a	1M07	dDl
5 new8T	ah 2	a4460	a- S0a	a- 604	a- 0- h	1M1S	dDl
5 nDDr p	6- 2	h4S46	h261-	h21SS	h2h1h	1M8h	dDl
&El Dpnl mb	1a6 1	1S6h76	1S61- 7	1S0264	1S60h6	SM4a	dDl
&El Dpnl mb	1a6 2	42126	4- 444	41- 20	422hh	2M4-	dDl
Fpemb	164 1	001a7	06602	0a0a7	06a2h	SM1-	dDl
Fpemb	164 2	- 1S- 6	2h0h-	277Sa	2h707	- M04	dDl
Hwon8Cmb	16S 1	77S4S	70621	7614a	7026h	1M14	dDl
Hwon8Cmb	16S 2	4SS4-	- h40a	- h706	- h0h7	SM0-	dDl
y n8b mb	16a 1	1SS70a- 6	1SS6720-	hh4aa7-	1SS- - 0h7	SM00	dDl
y n8b mb	16a 2	4S112- h	4- 7726-	41aa6- 2	417aS4a	4M4a	dDl
tComb	11a 1	0- 6- - Sh	0Sh0h- S	0201hS0	0244- 72	1M76	dDl
tComb	11a 2	hSaa4a	h6- 44-	h- 27h-	h- - h6S	- M1S	dDl
tpnC	a4 2	- 44a2aa	- 4a6621	- 4S6S21	- 4- ah66	SM00	dDl
tpnC	a6 2	62S610h-	616011SS	62- 0a7- a	62S- 624-	SM40	dDl
tpnC	a0 2	1a70h01	1ahS006	1ah0241	1ah1hh6	SM1S	dDl
KpEDTnC	7- 1	- 42	- 22	- 0a	- 40	0M64	dDl
Lr wo	2S6 1	2h67aa	2h- - 4h	- SS07a	2h6hh6	1M2a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :uwb r :J	1Saq . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	24a0S6	2417aS	246ha-	2447- 0	1N8h	dDl
Lr wo	2S7 1	1107hSh	116- 0a7	110a2ah	1102642	SM00	dDl
LdTGmb	6 1	264- - 26	26121h-	2666440	264S6aa	1N8-	dDl
9 wgCr l mb	24 2	h20- 00	h21S64	h12S42	h2S161	SM74	dDl
9 wCgwCr l r	aa 2	1aa4a77	1a42010	1a2a747	1a41Sa1	SM14	dDl
9 n8Eeor Cmb	h4 1	- 116h	- 170h	- 1661	- 1a0S	1M1a	dDl
9 n8Eeor Cmb	ha 1	1hh1a	1h202	1hSh0	1h427	2M22	dDl
9 n8Eeor Cmb	h6 1	2- a- 0	2- 662	2- 462	2- aa4	SM4-	dDl
9 n8Eeor Cmb	h0 1	12S14	11h02	11a7h	117a7	1M17	dDl
9 n8Eeor Cmb	h7 1	- Saa1	- 11h4	- S- 2a	- S6hS	1M40	dDl
u r noEb mb	1aS 1	1hh6S7	1haahh	1h6a- 1	1h0246	1N86	dDl
u r noEb mb	1aS 2	ah74-	a7a01	a0- 02	a7aha	2M11	dDl
u dkr 8	6S 2	- - - 0h	- - 2- 2	- 2017	- - 11S	1N8a	dDl
NGhl DGhpml	- 1 2	- 10a	- 1SS	- SaS	- 1Sh	2N82	dDl
NnTwl mb	- h 2	2ha70S	2h1626	2h622S	2h4a02	SM70	dDl
. Ghomb	1S- 1	027S111	02061S6	01h- 04a	024hh77	SM00	dDl
. Ghomb	1S- 2	- 1S2S4S	- 24a- 17	- 1hSa76	- 10h- 1a	2M20	dDl
l dwComb	4a 1	47a46S6	4720h26	40a4S62	47121h7	1N87	dDl
l dwComb	4a 2	1- 04a0	1442hS	14172S	14117h	2M4a	dDl
l r 8 Cmb	72 1	266	- 40	262	2h2	16M44	dDl
l r 8 Cmb	00 2	1hS	14-	1a0	16-	14M01	dDl
l r 8 Cmb	07 2	1- 6	1a6	14-	14a	0N8S	dDl
l 8dnC	27 1	0a46h64	00776h6	0724h7a	002S21a	1M16	dDl
l 8vr p	1S0 1	2774	2a- 4	2h10	2007	0M0a	dDl
l 8vr p	1Sh 1	2- 2a	2660	27h2	2627	1SM76	dDl
l nomb	2- 2	040- -	04h10	0- 1h2	04271	1M27	dDl
l TpnCTmb	76 1	16- 712	161h72	162207	1626h1	SM0S	dDl
l TpnCTmb	77 1	1471a7a	14h10- 2	14h7S72	14hS466	SM46	dDl
l m8mp	- 4 1	- - 172h	- 2a174	- 2a0Sh	- 20a04	1M1-	dDl
Ar pemb	1ah 1	1Sa- 1472	1S17011S	1S420404	1S- 72S22	1M0S	dDl
Ar pemb	1ah 2	- h- 66a-	41- 611S	- h71a44	4S171S2	2M0S	dDl
AGw8mb	2S- 1	24h2	2a- 4	24aS	24h2	1M00	dDl
AGw8mb	2Sa 1	a7- a	6S- a	a74-	ahS4	1M12	dDl
AdC	117 1	1aaah	1a767	1a66S	1a6h6	1N8S	dDl
AdTwCmb	40 1	h2146	h1aa7	h221-	h1h02	SMlh	dDl
RpwCmb	2- 7 1	76110	7- 122	70S47	7a42h	2M4S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :u wb r :J	1Saq. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	07117	06077	0a72-	06h1S	1M4S	dDI
YTTr peomb	102 1	2a1a7	2a- 0a	247hS	2a141	SM10	dDI
YTTr peomb	102 2	12S- -	11- hh	114- -	11622	- M80	dDI
YTTr peomb	106 1	10a0h	10107	1671h	101h2	2M21	dDI
YTTr peomb	106 2	17Sa0	1hS2S	1767S	17a76	2M4-	dDI
YTTpomb	7h 1	142hh72a	14SSSh7-	14216a01	141024ah	1M8h	dDI
YTTpomb	7h 2	1- 017h1	1444SSa	142SSa0	1411h74	2M4S	dDI
ZdCd	66 2	6712-	667hS	660- S	60247	1M1-	dDI
ZqpdnComb	hS 1	a- 6h6	aa407	a4271	a447a	1M60	dDI
ZqpdnComb	h1 1	12S40	1167h	126- 1	12122	- M12	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0S0- 16	0S6272	0S17- S	0Sa14-	SM41	dDl
qCTb nCh	121 1	1S146	E02E	1S701	1S24E	aM64	dDl
qpl r Ccl	0a 2	0601	0a22	06SE	06SS	SMEE	dDl
Bwpcmb	1- a 1	aaEa06	aaa062	aa41- E	aa64E2	SM4S	dDl
Bwpcmb	1- 0 1	EESE4S	E74- aE	E60EaE	E71S76	1M21	dDl
Br ph8mb	E 1	- 014	- 024	- 64S	- 6E-	1M24	dDl
Bdl b mTG	2SE 1	67Sa744	021E1- 4	6E0a74-	0SSS204	2ME0	dDl
Bdl b mTG	2SE 2	- 16S622	- 27- S- S	- - 42704	- 262106	2M7a	dDl
Bpmb cCr	71 1	7S44	74E4	7- 1E	7276	2M04	dDl
5 wob cmb	1S7 1	- E6	42a	- 46	- 7E	1SMS	dDl
5 wob cmb	1S6 1	4a4-	4a- 4	47a1	464-	- M7E	dDl
5 wob cmb	111 1	4- 11	4S47	42- E	42SS	- M24	dDl
5 w8lcmb	4- 1	1S2SEa0	1S224- 2	1S1- a6a	1S17E7a	SM40	dDl
5 w8lcmb	44 1	1022S- Ea	10- S1144	1022061a	1024E017	SM26	dDl
5 wpenC	12 1	4477- 71	4a27ES6	4a7E67a	4a- a6a0	1M12	dDl
5 wpenC	12 2	aaSE6	aaSa4	a- a- E	a4a6-	1M0-	dDl
5 G8hpcCr	- a 1	2S1- S676	2- aaE400	2a2- 2E70	22E04- 7-	11M2	dDl
5 G8hpcCr	- a 2	17SaES	17- 7S6	177761	17441E	2M26	dDl
5 Gpmb cmb	a2 2	6ESSa	67701	670a1	67706	SM17	dDl
5 new8T	aE 2	- 7ES-	- 740E	- ES74	- 7722	SM7S	dDl
5 nDDr p	6- 2	1E- 470	1E2S16	1E- 104	1E27E2	SM4S	dDl
&hl Dpnl cmb	1a6 1	74aa1	76S17	74044	7a1S4	SME4	dDl
&hl Dpnl cmb	1a6 2	- 40- a	- 4- 67	- 460a	- 4aE-	SM40	dDl
Fpecmb	164 1	6- aS2	62S21	6S7ES	621- 7	2M11	dDl
Fpecmb	164 2	240E-	24E60	2472S	2476S	SM17	dDl
Hwon8Ccmb	16S 1	0- E1-	02- 64	04- - -	0- a- 0	1M41	dDl
Hwon8Ccmb	16S 2	- - 46a	- - 71-	- - E6S	- - 046	SM0a	dDl
y n8b cmb	16a 1	EE- E40S	1S1SS- E0	1S146674	1SS6217-	1M37	dDl
y n8b cmb	16a 2	4S600EE	4- 44SE7	4200E14	422EE- 0	- M41	dDl
tCocmb	11a 1	6E2444a	0- 21EE7	01EE1E0	0147a40	2M7a	dDl
tCocmb	11a 2	E1aEa2	Eaa7EE	Ea04a1	E4- 1S1	2M4E	dDl
tpnC	a4 2	270- a4-	204S167	27- - - SS	271a601	2M4-	dDl
tpnC	a6 2	a1SaaSaS	aSE- 2241	a1- S- 4SS	a1SE67E0	SM0	dDl
tpnC	a0 2	117E2S2	12170S2	11E0E74	12S1E6-	1M26	dDl
KphDTnC	7- 1	- a1	- 4a	- 11	- - 6	6M41	dDl
Lr wo	2S6 1	1- 26001	1- - a1E-	1- 1a74-	1- 2aE- 6	SM0-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1SE712-	11160E1	1SE0Sa7	11S- EE1	1N81	dDl
Lr wo	2S7 1	aa2SEaS	aa071E0	aa2aE76	aa41011	SM10	dDl
LdTGmb	6 1	2a42742	2664761	267a477	26- 1S6-	2M4-	dDl
9 wgCr l mb	24 2	100221S	1022271	10- Saa2	1041671	1M44	dDl
9 wCgwCr l r	aa 2	1SE7211	1S0710S	1SE2426	1S7E6S2	SM4a	dDl
9 n8heor Cmb	E4 1	- a10S	- 47a-	- 44- a	- 471E	1N86	dDl
9 n8heor Cmb	Ea 1	144- -	1- 44S	1- 4ES	1- 077	4N86	dDl
9 n8heor Cmb	E6 1	1E6- E	1E02-	1Ea64	1E642	SM4S	dDl
9 n8heor Cmb	E0 1	764a	E212	74S-	70a-	4M04	dDl
9 n8heor Cmb	E7 1	220E4	220E4	214- 4	22- 41	- M42	dDl
u r nohb cmb	1aS 1	14446E	144a4E	1442S1	1444S6	SM1-	dDl
u r nohb cmb	1aS 2	4- 04a	42601	4- 0S1	4- - 02	1M4S	dDl
u cdkr 8	6S 2	26417	2a- - E	266Sa	26121	2M62	dDl
NGhl DGhpml	- 1 2	4Ea1	4Ea1	a167	aS2-	2M4E	dDl
NnTwl l cmb	- E 2	- 06EE1	- 06Ea1	- 06SEE	- 0667S	SM1-	dDl
. Ghocmb	1S- 1	671- - - 1	01- S- 7-	02SEEa4	0Sa1222	2M47	dDl
. Ghocmb	1S- 2	- S67S74	- 2Sa74E	- 26S21-	- 107S47	- M12	dDl
l dwCocmb	4a 1	446E1a0	47a701E	47102S4	401aS20	4M44	dDl
l dwCocmb	4a 2	1- 0a0E	14- 7- 0	14041-	142E4-	- M47	dDl
l r 8 Cmb	72 1	246	1EE	2- 0	220	11M1	dDl
l r 8 Cmb	00 2	2S0	1- 0	17S	104	2SM2a	dDl
l r 8 Cmb	07 2	1- 1	111	1- 0	126	1SM07	dDl
l 8dnC	27 1	1S- 6E61E	1S1- 0- Sa	1S26a20a	1S2a04SS	1M1-	dDl
l 8vr p	1S0 1	74a-	7707	7661	7664	2M46	dDl
l 8vr p	1SE 1	72S-	0EE4	7161	711E	1M6	dDl
l nocmb	2- 2	10S067	160014	10- 144	10Sa42	1M6S	dDl
l TpmCTcmb	76 1	40SEa6	402221	40S274	4011a4	SM21	dDl
l TpmCTcmb	77 1	4- S6E- a	42a20SS	42644S2	420460E	SM00	dDl
l m8mp	- 4 1	- aEE- 7	- 6aSS-	- 626S6	- 62a1a	SM0S	dDl
Ar pecmb	1aE 1	EEE17E6	1S- 0- 7- 7	1S2- 12S7	1S1E7E71	1M7E	dDl
Ar pecmb	1aE 2	- E17- - 2	41a0442	4120SS4	4S60aE-	- M2S	dDl
AGw8mb	2S- 1	20aE	27aS	2a2a	2011	6M17	dDl
AGw8mb	2Sa 1	60a2	6720	621S	6aE6	aM1S	dDl
AdC	117 1	2- 746	2- 40E	2- 446	2- aES	SM44	dDl
AdTwCmb	40 1	227a7a	22716-	224ES4	220210	SM7E	dDl
RpwCmb	2- 7 1	E62a0	Ea000	E4E0S	Ea667	SM07	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :u wb r :J	1S6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	0- 17E	0- 2S-	01EE-	020Ea	SNEa	dDl
YTTr peomb	102 1	17771	1E- 2-	1707E	17EE0	1N4S	dDl
YTTr peomb	102 2	7a0S	702S	7442	7a00	1N02	dDl
YTTr peomb	106 1	1- - 72	1- 616	1- 172	1- - E-	1N02	dDl
YTTr peomb	106 2	16- aa	1017E	1014a	167E6	2N07	dDl
YTTpomb	7E 1	1- a- 7a42	14161E66	1412EE11	1- E4- 40-	2N42	dDl
YTTpomb	7E 2	12E- 71S	14146- a	14- 627-	1- 71a06	aN46	dDl
ZdCd	66 2	1- 0442	1- 4604	1- 6SSE	1- 6S42	1N82	dDl
ZqpdnComb	ES 1	0aS1E	0647a	0aE04	0a726	SNE7	dDl
ZqpdnComb	E1 1	10176	10- S-	101a-	10214	SN46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :uwb r :J	1S0q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	70677a	7ah77h	702ha2	76hhSh	1M82	dDl
qCTb nCE	121 1	47a1	4h4-	a117	4h0S	2M0-	dDl
qpl r Ccl	0a 2	1ha0	17h-	1h1S	1h2S	1M0-	dDl
Bwpcmb	1- a 1	64- 24-	6- 4771	64- a0a	64Sa66	SM00	dDl
Bwpcmb	1- 0 1	11- 61hS	111a- 4-	111h411	112- 647	SM17	dDl
Br pE8mb	h 1	2- 21	22a4	2240	2204	1M7S	dDl
Bdl b mTG	2Sh 1	6- 4- 770	67h- - 4a	0- 270S1	67aa- 11	0M2S	dDl
Bdl b mTG	2Sh 2	- - 41a14	- - 11h60	- S60hhh	- 24S4h-	4M0-	dDl
Bpmb cCr	71 1	60- a	6a67	6a- a	661-	1M62	dDl
5 wob cmb	1S7 1	1h6	1h6	177	1h-	2M4h	dDl
5 wob cmb	1S6 1	4226	44- 4	4- 42	4- - 4	2M41	dDl
5 wob cmb	111 1	2247	221a	2416	22h-	4M0h	dDl
5 w8lcmb	4- 1	- 0aahS	- 604S1	- 6h0- a	- 0ShSh	1M14	dDl
5 w8lcmb	44 1	6- 611aS	61h447h	61- 4hh1	62- S21S	1M77	dDl
5 wpenC	12 1	6h2764S	0S46S17	024a72S	0S0- 4h-	2M20	dDl
5 wpenC	12 2	74667	741- 2	7406h	74a2-	SM41	dDl
5 G8mpCr	- a 1	2SS744- -	2- S22274	24h62601	2267h0h6	1SM72	dDl
5 G8mpCr	- a 2	107SSh	174hh6	1702a7	17- 421	2M0-	dDl
5 Gpmb cmb	a2 2	- 7a12	- 7a4a	- h2h4	- 7074	1M14	dDl
5 new8T	ah 2	- 0060	- 0412	- 06S-	- 0ah4	SM40	dDl
5 nDDr p	6- 2	h1702	h2a22	h2- 07	h22a0	SM0	dDl
&El Dpnl cmb	1a6 1	a0S71	a6S6S	a70a4	a02hh	2M0	dDl
&El Dpnl cmb	1a6 2	2- a64	2- 1a-	2- 6S7	2- 442	1M80	dDl
Fpecmb	164 1	462- h	4a- 11	461a6	4ahS2	1M12	dDl
Fpecmb	164 2	17660	171- h	17266	17- a0	1M4S	dDl
Hwon8Cmb	16S 1	aS270	a21h4	a1a60	a1- aS	1M7h	dDl
Hwon8Cmb	16S 2	2- 771	2- 04a	2- 70a	2- 7- 4	SM12	dDl
y n8b cmb	16a 1	7hh70ha	hh7420-	1S1416- 0	h0S72- a	6M7	dDl
y n8b cmb	16a 2	4- - aS6a	4221676	- h7a07a	417S74a	4M26	dDl
tCocmb	11a 1	6ah107-	0114Sh4	0101170	6hahS21	4M4h	dDl
tCocmb	11a 2	h7hS42	h60240	707772	h4aSa0	6M10	dDl
tpnC	a4 2	2060a2a	267762-	20SS22h	20170h2	1M40	dDl
tpnC	a6 2	476S7h76	4001hh17	47- 04a2-	472- 4406	SM16	dDl
tpnC	a0 2	1166ha7	11a2- h4	114174a	11a- 0- 2	1M8h	dDl
KpEDTnC	7- 1	- 14	- - 1	- 42	- 2h	4M4S	dDl
Lr wo	2S6 1	46a- 01	40a417	46202S	4607- 6	1M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :uwb r :J	1S0q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	- 76S41	- 70ahS	- 74ah2	- 76S04	SMlh	dDl
Lr wo	2S7 1	17166- a	17- 10hh	17- 0h60	17277S1	SM6S	dDl
LdTgmb	6 1	24S06S-	26- 66h1	20212- -	2a77aSh	6M20	dDl
9 wgCr l cmb	24 2	7S672-	7SS121	0hh046	7S22- S	SM4S	dDl
9 wCgwCr l r	aa 2	a020- 2	a602a1	a6012-	a6hS- a	SM46	dDl
9 n8Eeor Cmb	h4 1	16- 6S	10ha4	10S44	1011h	4M60	dDl
9 n8Eeor Cmb	ha 1	44Sh	4aS1	4- S1	44S4	2M20	dDl
9 n8Eeor Cmb	h6 1	7S61	0- 00	011h	0a1h	6M40	dDl
9 n8Eeor Cmb	h0 1	- Sah	2042	2674	2727	0M14	dDl
9 n8Eeor Cmb	h7 1	0S6S	0S- a	0a20	02S7	- M74	dDl
u r noEb cmb	1aS 1	h- a00	h10Sa	h424h	h- 100	1M41	dDl
u r noEb cmb	1aS 2	2721-	27S1-	20042	20h7h	SM74	dDl
u cdkr 8	6S 2	100S4	17- a2	107aa	10h0S	1M7h	dDl
NGhl DGhpml	- 1 2	6167	ah1S	6a17	61hh	4M1-	dDl
NnTwl l cmb	- h 2	a20447	a11a71	a1hh60	a1h66a	1M4-	dDl
. Ghocmb	1S- 1	6407- ah	0S- 210-	011S7- 0	670- 07h	aM81	dDl
. Ghocmb	1S- 2	- 2h- 41a	- - 1227-	- S- 4216	- 21- - Sa	4M74	dDl
l dwCocmb	4a 1	4- 2aaa4	46a0aah	47162- 6	4ahh07-	aM44	dDl
l dwCocmb	4a 2	14h1S1	146S6-	1- 17- 4	142- - -	6M47	dDl
l r 8 Ccmb	72 1	110	112	71	1S4	17M1-	dDl
l r 8 Ccmb	00 2	0-	1- S	120	11S	27M1	dDl
l r 8 Ccmb	07 2	76	74	66	0h	14M8S	dDl
l 8dnC	27 1	1Sh721a1	11127- 06	1Sha- a11	11S21- 46	SM7a	dDl
l 8vr p	1S0 1	2S- 4	2SSh	2S10	2S2S	SM0-	dDl
l 8vr p	1Sh 1	17h2	1760	1742	1760	1M4	dDl
l nocmb	2- 2	ah7- 2	a7044	6S- - -	ah6- 0	1M6	dDl
l TpnCTcmb	76 1	7- 041-	7- h067	7a4402	74- 774	1M1S	dDl
l TpnCTcmb	77 1	06100a0	060- 4- h	044- S7h	0a07Sha	1M4h	dDl
l m8mp	- 4 1	- 2- h6a	- 11716	- Shaa6	- 1a11-	2M46	dDl
Ar pecmb	1ah 1	h166a42	1S- 6702a	1S46- 647	hhhh6- 7	0M2-	dDl
Ar pecmb	1ah 2	4- 261aS	4S00a14	- h1a- S2	41S6- 22	aM84	dDl
AGw8mb	2S- 1	2S74	1760	2S- 4	1hha	aM0h	dDl
AGw8mb	2Sa 1	46- 4	4hSh	a- 6S	4h67	0M0	dDl
AdC	117 1	11602	11S21	11614	114- 6	- M1a	dDl
AdTwCcmb	40 1	7ha1-	7h126	77h10	7h176	SM4	dDl
RpwCcmb	2- 7 1	6- S2-	6- 626	6- SS6	6- 21h	SM46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :u wb r :J	1S0q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a1 2	6hShh	670a0	6720h	67012	SM8S	dDI
YTTr pecmb	102 1	1447-	1a106	1- 7hh	14a1h	4M4S	dDI
YTTr pecmb	102 2	6424	017S	6h1h	6741	aM01	dDI
YTTr pecmb	106 1	hh0h	1S06-	1S- h6	1S- 0h	- M07	dDI
YTTr pecmb	106 2	1a701	16Shh	1a1a-	1a0S7	- M14	dDI
YTTpcmb	7h 1	12- h1407	1- - 17471	1- 4h- 427	1- S600h6	4M4-	dDI
YTTpcmb	7h 2	14Sh061	14- - 0aS	1216a0a	1- a- - 62	7M7S	dDI
ZdCd	66 2	07- 02	0h24S	07- a2	076aa	SM04	dDI
ZqpdnCcmb	hS 1	- 74ha	- 707S	- h7S7	- hS27	1M00	dDI
ZqpdnCcmb	h1 1	h1S-	77S-	72S-	70S-	aM20	dDI

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Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RRen&psmI Re:D :J	5 9 SFyy	t ARa&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	61264S	6110- 6	yh0761	6S0412	1U6	ql w
cn&AmonE	121 1	1760	2110	2SSh	1hh0	6U27	ql w
crwenAq	0y 2	1417	1- 1y	126-	1- - 2	yUh2	ql w
BsrAm	1- y 1	411h6S	411- 41	4S6466	4Shh22	SU0-	ql w
BsrAm	1- 0 1	0- Sy26	0- 2S2y	01S0- 4	024427	1U64	ql w
BerEPAm	h 1	1622	1y76	16Sy	16S4	1U1-	ql w
BAmu&G	2Sh 1	01S4Sh4	6h0- S67	6774026	6h702h6	1Uy7	ql w
BAmu&G	2Sh 2	- 26- 1S2	- 1y0hS2	- 277177	- 2- 6- h0	2U14	ql w
BromAne	71 1	47yh	yy7y	y2y1	y2- 2	6Uh4	ql w
RsOmAm	1S7 1	0y	1- 7	h6	1S-	- SUh6	ql w
RsOmAm	1S6 1	- h60	- hy1	- 0- 4	- 774	- Uy	ql w
RsOmAm	111 1	11- 6	11- 6	1S6h	1114	- U4h	ql w
RsRqAm	4- 1	20271h	2026yS	2044y7	20- - Sh	SUy0	ql w
RsRqAm	44 1	462- 1h0	4yy61yy	467- 442	462Sh- 1	1Uy7	ql w
Rsrbon	12 1	- - 20- 1h	- - hhh04	- 40S7y6	- - hh- 7-	2U11	ql w
Rsrbon	12 2	4Sh4h	4S- 71	4S1Sy	4S407	1US6	ql w
RGPrAne	- y 1	2S- 0217S	2- 662y71	2y200710	2- 1S41h-	1SU72	ql w
RGPrAne	- y 2	17- 22-	17647S	17042y	17y01S	1U1h	ql w
RGromAm	y2 2	24211	24077	2- 7- S	24206	1Uh	ql w
RobsR&	yh 2	2y7yS	2y6h-	2y216	2yy76	1U2h	ql w
RoI I er	6- 2	47127	471S7	4726y	47160	SU17	ql w
t EwI rowAm	1y6 1	4S1y2	412h7	4S- 07	4S61S	1U4h	ql w
t EwI rowAm	1y6 2	16760	167y1	16000	167- 2	SU27	ql w
. rbAm	164 1	- 41- 6	- 4- y4	- - - S1	- - h- S	1U64	ql w
. rbAm	164 2	1- 11-	1- 210	127hS	1- S0-	1U27	ql w
HsOoPAm	16S 1	- 0- 27	- 01- 6	- 6yy1	- 0SSy	1USh	ql w
HsOoPAm	16S 2	10- 01	10447	102- 7	10- y-	SU61	ql w
9 oPmAm	16y 1	1S1yy14h	1SSyh- h2	h07S2S6	hhh724h	1Uhy	ql w
9 oPmAm	16y 2	41yS77y	41yS66-	4224y4h	410y- 66	1US2	ql w
DrOAm	11y 1	016y4- 0	024407S	01- 2- 44	017S7y4	SU7S	ql w
DrOAm	11y 2	h- S2y0	h24- 4h	h- 20h4	h2h1- 4	SU40	ql w
Don	y4 2	17y0444	171474S	107ShhS	17100y7	2U11	ql w
Don	y6 2	- - 16- 67-	- 2y- S0y6	- 221011y	- 26- 017y	1U47	ql w
Don	y0 2	07S414	000- 06	002y- 7	006006	SUy1	ql w
KrEI &on	7- 1	- S6	2hh	20y	2h-	yUy6	ql w
LesO	2S6 1	21yh47	2Shh- -	2S74hy	2114y7	1U70	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyy	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	100y70	10y- y1	104h- 0	10yhy7	SU71	ql w
LesO	2S7 1	746- 74	726y77	716- y4	72h00y	1U74	ql w
LA&GAum	6 1	267SS1S	26S00S6	26yy0h4	26407- 0	1Uh	ql w
5 sgnewAum	24 2	6S64- 6	61S6- 7	6116S-	6Shyyh	SU4y	ql w
5 sngsnewe	yy 2	- 7S270	- 0204y	- 60471	- 0- yS4	1U02	ql w
5 oPEbOenum	h4 1	1S- 6-	h7- 0	1S6S4	1S267	- U72	ql w
5 oPEbOenum	hy 1	2y2y	2274	2- yS	2- 76	yU2-	ql w
5 oPEbOenum	h6 1	4242	42h2	4110	4210	2U14	ql w
5 oPEbOenum	h0 1	1y10	1- S7	142y	1410	0U0	ql w
5 oPEbOenum	h7 1	- 7yh	- 642	- y06	- 6h2	4US1	ql w
NeoOEmAum	1yS 1	6hy4S	6h727	6h101	6hy1-	SU40	ql w
NeoOEmAum	1yS 2	2Sh- -	2S2- h	2Syy-	2Sy0y	1U6h	ql w
NAqkeP	6S 2	1- 01S	12hSh	1- y- 0	1- - 7y	- U1y	ql w
8GowI Goruw	- 1 2	24- 4	24SS	21h2	2- 42	yUyh	ql w
8o&swwAum	- h 2	2S7271	2Syh02	2S- 440	2SyhSS	1U10	ql w
CGoOAum	1S- 1	012y4y-	011- 274	01Sy0y-	01147- S	SU14	ql w
CGoOAum	1S- 2	- 2216- 6	- 160y77	- 106266	- 1774h0	SUh1	ql w
pqsnOAum	4y 1	400- 21h	40S- 4- h	40261- -	40- 426-	SU0y	ql w
pqsnOAum	4y 2	14210y	1- h6- 7	1- h762	14Syy7	1USS	ql w
peRenAum	72 1	20	- y	h2	y2	67U74	ql w
peRenAum	00 2	h-	6-	h0	74	21U04	ql w
peRenAum	07 2	06	67	0y	0-	yUh0	ql w
pARqon	27 1	7h46h- -	h- S2yh4	h22- S- 6	h1y0y21	2US4	ql w
pARer	1S0 1	h42	h7-	1Sy7	hhy	yUhy	ql w
pARer	1Sh 1	1SSS	h7-	742	h42	hU24	ql w
poOAum	2- 2	hS- h6	h1SS7	7h416	hS204	SU7h	ql w
p&on&Aum	76 1	y044S0	yh0612	y7yS1h	y7y60h	1Uh7	ql w
p&on&Aum	77 1	y1h010y	y4- 17h0	y277771	y- Syh74	2U2-	ql w
puRur	- 4 1	204471	200y20	206yS1	20610S	SUy6	ql w
i erbAum	1yh 1	1S- 7h760	1S212600	1S2h147S	1S2h7SS7	SU76	ql w
i erbAum	1yh 2	41yhh42	- 70- 17y	4S16h7-	4S160S-	- Uy0	ql w
i GsRAum	2S- 1	1- 7-	1y10	1y2y	140y	yUh	ql w
i GsRAum	2Sy 1	- 742	- 760	- 642	- 074	- U26	ql w
i An	117 1	04y2	0y1h	0- 20	04- -	1U1	ql w
i A&snAum	40 1	y66- 7	y01- h	y0742	y02S6	1USS6	ql w
MrsnAum	2- 7 1	- - 227	- 26y1	- 46y6	- - y12	- US7	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyy	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	44171	44SS0	4- 070	4- hh2	SU4y	ql w
Y&erbAum	102 1	1S26-	1S16-	1SS0h	1S167	SUhS	ql w
Y&erbAum	102 2	yS2h	4- y6	4012	46hh	0U16	ql w
Y&erbAum	106 1	0011	7S76	02- y	0600	yUyy	ql w
Y&erbAum	106 2	14- 14	14- 40	141- 6	1426y	SU7S	ql w
Y&&Aum	7h 1	1- - 2- 464	1- 6yy7h2	1- 007- 02	1- y7yh1S	1U0-	ql w
Y&&Aum	7h 2	120717S	1261h12	12y0SS1	126y6h7	SU77	ql w
ZAnq	66 2	- 2- 4S	- 1h0-	- 140y	- 1h2h	1U16	ql w
ZAqonAum	hS 1	22744	24y22	2- 0h6	2- 021	- Uyy	ql w
ZAqonAum	h1 1	y4S1	y026	y0S1	y61S	- U2-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	87
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	Rn&w
cRmAAm	20 2	70hS60	762S7C	7h71S7	76hS77	1M3-	ql w
cn&AmonE	121 1	- 2- 4	- - 06	- 1SC	- 2- C	4M12	ql w
crwenAq	0h 2	h- 4C	h20C	h12C	h2h2	2M1-	ql w
BsrAm	1- h 1	4C1S42	47C066	47- 20h	477S27	SM7h	ql w
BsrAm	1- 0 1	76627h	70h471	76- h77	7674h1	SM02	ql w
BerEPAm	C 1	2621	261C	2h7h	26S7	SM07	ql w
BAmu&G	2SC 1	0ShSS1h	6CS- 47C	0S6- 1SC	0SShh- 7	1M26	ql w
BAmu&G	2SC 2	2771C4S	- 17- SC-	- 1Ch67C	- S76CS7	hM0h	ql w
BromAne	71 1	616S	627h	6420	62CS	2M12	ql w
5 sOmAm	1S7 1	16-	12C	1S4	1- 2	22M17	ql w
5 sOmAm	1S6 1	4142	- C42	- CS1	- CCh	- M4-	ql w
5 sOmAm	111 1	1CSC	10h7	1006	1714	4M1h	ql w
5 sRqAm	4- 1	24- C64	240- Sh	2476Sh	246624	SM00	ql w
5 sRqAm	44 1	4201SC1	4160- 7-	4140- 2C	41Ch267	1M17	ql w
5 srbon	12 1	- 71S022	- C22176	- 7C2C06	- 70h2Ch	1M4C	ql w
5 srbon	12 2	46066	40h20	40SS1	40SC7	SM7-	ql w
5 GRorAne	- h 1	2S40C202	2- h464S0	2h0S262S	2- 242066	11M2C	ql w
5 GRorAne	- h 2	176044	1C- 16S	1C4640	1C1h10	2M1C	ql w
5 GromAm	h2 2	01420	0S- 72	0S640	0S71C	SM00	ql w
5 obsR&	hC 2	076- C	0676S	004SC	006- 6	1M10	ql w
5 ol l er	6- 2	14- h7h	14S121	142Ch2	14221C	1M1S	ql w
t EwI rowAm	1h6 1	60C72	0S6Ch	677h-	6C100	2M3S	ql w
t EwI rowAm	1h6 2	270- 4	27047	27711	27064	SM14	ql w
FrbAm	164 1	h771h	6SSC4	hC610	hChSC	1M3C	ql w
FrbAm	164 2	24122	2- 10S	2- - 11	2- h- 4	2M17	ql w
HsOoPAm	16S 1	6446h	640C1	64616	64624	SM2h	ql w
HsOoPAm	16S 2	2C06S	2C- 2C	2CS72	2C- CS	1M10	ql w
y oPmAm	16h 1	1SSh4- 20	1SS060S2	C0402- -	CChC421	1M7h	ql w
y oPmAm	16h 2	- 6S61S1	42SS42h	412- 606	- C060- 4	7M1-	ql w
DrOAm	11h 1	0247760	0S6h- 6C	6Ch6420	0SCS221	2M37	ql w
DrOAm	11h 2	7S1- 74	C44276	C- 1641	7C24- 0	7M76	ql w
Don	h4 2	42S1h- h	41174S7	41C7h26	410272-	1M1-	ql w
Don	h6 2	0h046S67	047C21CC	040- 74C1	0h12hh76	SM02	ql w
Don	h0 2	1C6SSh0	1C- C60S	1C64h67	1Ch406h	SM67	ql w
KrEI &on	7- 1	- SC	- S1	- - 6	- 1h	hM74	ql w
LesO	2S6 1	- 2h6SC	- 26C- 1	- 24446	- 2h662	SM17	ql w

Reviewed By:Bin
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Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	Rn&w
LesO	2S0 1	26h760	2677hC	266244	266CCS	SM61	ql w
LesO	2S7 1	12621- 6	12010S0	1262hC1	126h407	SM4-	ql w
LA&GAum	6 1	26- hh4-	26- 77S7	260- 02C	264C- 6S	SM7S	ql w
9 sgnewAum	24 2	1277h72	12- 4667	12hCC7C	1261S7S	2M14	ql w
9 sngsnewe	hh 2	10441- 6	1011C22	1044Chh	10- - 601	1M3C	ql w
9 oPEbOenum	C4 1	1- S71	11C22	11014	122- C	6M32	ql w
9 oPEbOenum	Ch 1	hC1S	h7- h	62- h	hCC-	- M1h	ql w
9 oPEbOenum	C6 1	071C	7107	066C	077C	- M1	ql w
9 oPEbOenum	C0 1	- 010	- 060	- C06	- 72S	- M1C	ql w
9 oPEbOenum	C7 1	C42S	C2Ch	C7h4	Ch2-	- M37	ql w
NeoOEmAum	1hS 1	1116S0	1SCh- 6	11S4- 0	11Sh26	SM04	ql w
NeoOEmAum	1hS 2	- - hS2	- 24h6	- - - C2	- - 110	1M04	ql w
NAqkeP	6S 2	hS720	hSS67	4C2h7	hSSh1	1M10	ql w
8 GowI Goruw	- 1 2	4- SC	40hC	4C26	466h	6M74	ql w
8 o&swwAum	- C 2	4C7S0S	4C4S1C	4C2716	4C4C67	SM16	ql w
. GoOAum	1S- 1	01C4C07	0SC7hCC	01SSS01	01- 1216	SM00	ql w
. GoOAum	1S- 2	207h42S	- 2h2h46	- 2S4- 07	- S7S072	7M4	ql w
pqsnOAum	4h 1	40Sh067	40S6161	40- 72S-	4016011	SM-C	ql w
pqsnOAum	4h 2	12S4h-	14- S72	14- 111	1- hh4C	CM64	ql w
pe&enAum	72 1	- 06	- 4h	2C0	- 4S	11M67	ql w
pe&enAum	00 2	C0	11-	12-	111	12M12	ql w
pe&enAum	07 2	127	112	1S1	114	11M04	ql w
pAqon	27 1	1- 6h4- 66	1- 4- h4h-	1- 404C27	1- h21h7-	SM76	ql w
pAer	1S0 1	2- SC	22SC	2- 10	2207	2M0h	ql w
pAer	1SC 1	2- 74	2S10	2S2h	2142	CM07	ql w
poOAum	2- 2	1S0- 4-	1SC- 7-	1S7167	1S72C7	SM0h	ql w
p&onAum	76 1	2S1674	2S14h6	2SS007	2S1- S6	SM4-	ql w
p&onAum	77 1	171- - 47	17707h1	176h64C	17hh616	2M36	ql w
pu&ur	- 4 1	2071h7	204hh6	20- S12	20h242	SM06	ql w
i erbAum	1hC 1	1S- 206C1	1SS007S0	1S12C647	1S107- 72	1M-S	ql w
i erbAum	1hC 2	- hh2474	- Ch2SSS	41- 02hC	- 77Sh71	0M0S	ql w
i GsPAum	2S- 1	2CSC	- S0h	- S0h	- S2S	- M1C	ql w
i GsPAum	2Sh 1	67S2	0- h2	607h	6C7S	4M62	ql w
i An	117 1	6S26	646S	6- S2	626-	- M1S	ql w
i A&snAum	40 1	4Ch0C	4C012	4C- h-	4Ch47	SM10	ql w
RrsnAum	2- 7 1	0SSh4	02S02	01C77	01- 01	1M0S	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	RnA&w
VsnsOAum	h1 2	1S4216	1S24S4	1S262h	1S- S72	SM06	ql w
Y&erbAum	102 1	17h7S	17CS6	107- 7	17441	2M00	ql w
Y&erbAum	102 2	7S0h	7442	760h	7- C0	- M4S	ql w
Y&erbAum	106 1	1272-	1- 6S0	1- 7h7	1- 42C	4M52	ql w
Y&erbAum	106 2	1h601	10127	10612	167S4	6M31	ql w
Y&&Aum	7C 1	1- CSh22C	1- 64SS6C	1- 6641C0	1- 0- 64C7	1M30	ql w
Y&&Aum	7C 2	11474S-	1- 16771	142hS06	12C6070	1SM0h	ql w
ZAnq	66 2	60674	60S77	66S- 6	66C- 6	1M2h	ql w
ZAqonAum	CS 1	24402	244S6	24h02	2447-	SM4	ql w
ZAqonAum	C1 1	h- 06	hh26	h017	hh4S	- M3C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wo D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&JaJ	9 y SU6h	&8mTmCJJwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
q8mb cCmb	20 2	1- h: 141	1- 01464	1- 7S612	1- 724S6	SM16	dDl
qCTb nCE	121 1	4426	44: 1	- hS1	42: h	0M2h	dDl
qpl r Ccl	0: 2	4S4:	410S	- h67	4S61	2M1	dDl
Bwpcmb	1- : 1	: 16: S:	: 2- 12h	: 12- 7-	: 10- - h	1M8:	dDl
Bwpcmb	1- 0 1	hS67S-	h1- - hS	h24242	h14712	SM16	dDl
Br pE8&mb	h 1	- h64	4S66	- h66	- hhh	1M46	dDl
Bdl b mTG	2Sh 1	: h210S4	606141h	6h4h417	6: 44171	7M16	dDl
Bdl b mTG	2Sh 2	- 2h0- S1	- 200106	- 2024S6	- 2722h4	SM4S	dDl
Bpmb cCr	71 1	h22S	h6- 0	h: 70	h471	2M4S	dDl
5 wob cmb	1S7 1	210	21-	177	2S6	0M60	dDl
5 wob cmb	1S6 1	41- 4	4206	42: 1	422S	1M0h	dDl
5 wob cmb	111 1	2424	2401	2461	24: 2	SM1h	dDl
5 w8lcmb	4- 1	020- S:	022- 4:	01h264	022h01	SM16	dDl
5 w8lcmb	44 1	1227424S	1222: - 6-	11h6: 0: -	121: 74: 2	1Mh	dDl
5 wpenC	12 1	: 4h202h	: 67427-	: 6- 1662	: 6S27h1	1M00	dDl
5 wpenC	12 2	67SSS	6706h	60277	67S1h	1M8h	dDl
5 G8hpcCr	- : 1	17h1: 402	210S6416	2- 1h0h2-	2120- 201	1SM22	dDl
5 G8hpcCr	- : 2	167h00	101hh6	101: 4S	10S7- 0	SM1:	dDl
5 Gpmb cmb	: 2 2	67767	6742-	66722	67S- 7	1M7	dDl
5 new8T	: h 2	611- S	62- - h	62S21	617- S	1M81	dDl
5 nDDr p	6- 2	112: 1:	112h67	11- : 2-	11- SS2	SM4:	dDl
&El Dpnl cmb	1: 6 1	1SSh- S	1SS14h	h6S76	hhS: :	2M0-	dDl
&El Dpnl cmb	1: 6 2	41S0S	4S002	- h70h	4S: 04	1M-	dDl
Fpecmb	164 1	7- 0- S	741- -	74410	74Sh4	SM41	dDl
Fpecmb	164 2	- - : 66	- - : S6	- 2hS4	- - - 2:	1M1S	dDl
Hwon8Ccmb	16S 1	hS- : 6	7h460	7h2: 6	7h6h-	SM0:	dDl
Hwon8Ccmb	16S 2	41424	4S022	4S7- -	4Shh-	SM12	dDl
y n8b cmb	16: 1	7007711	h6664- 4	hh- 1027	h4: 7hh1	6M7	dDl
y n8b cmb	16: 2	4- 402S1	42- : 02:	41h4h- h	42: h277	1M7:	dDl
tCocmb	11: 1	6247h74	0S- 1h1-	6h76: hS	60: : 72h	6M1	dDl
tCocmb	11: 2	h62Shh	h61- : 4	h47676	h: 0- 7S	SM0h	dDl
tpnC	: 4 2	44: : 602	4466h: 7	441477:	444: 7- 7	SM02	dDl
tpnC	: 6 2	7S626624	7S: 16020	0hh7h61S	7S- 006: 4	SM42	dDl
tpnC	: 0 2	2S0774h	2Sh- S: :	2S62: S:	2S071- 0	SM04	dDl
KpEDTnC	7- 1	- : h	- 7:	- 0h	- 04	- M60	dDl
Lr wo	2S6 1	4S2: 47	4S: 70-	- hh421	4S2614	SM7S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU6h	&8mTmCJUwdThpla	1
&wTr J JAcb r JqdCmpr o Ja	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
Lr wo	2S0 1	- - : 00h	- - 40S7	- 27S61	- - 274h	1M26	dDl
Lr wo	2S7 1	1: 701: 1	1: 7121-	1: : 22: 2	1: 0- : - h	1M1h	dDl
LcTGmb	6 1	2- 024S1	26: 2424	2617Sh7	2: 40641	: M1h	dDl
9 wgCr l cmb	24 2	1011: 62	10: 07- h	16h6S11	10217S4	1M70	dDl
9 wCgwCr l r	: : 2	7h0177	hS7: h7	7h21h2	7hh- 26	SM14	dDl
9 n8Eeor Cmb	h4 1	227- 6	22120	21- : S	221S4	- M6	dDl
9 n8Eeor Cmb	h: 1	7h70	76- 6	76h:	7002	2M14	dDl
9 n8Eeor Cmb	h6 1	127h7	1260-	12271	12610	2M47	dDl
9 n8Eeor Cmb	h0 1	: 006	: h7:	: 04-	: 7- :	2M2:	dDl
9 n8Eeor Cmb	h7 1	1472:	1: : - 4	14: S7	14h: 6	- M1	dDl
u r noEb cmb	1: S 1	1: h602	1: h- S7	1: 7772	1: h277	SM2:	dDl
u r noEb cmb	1: S 2	40hhh	40: : 1	40- : S	406- -	SM0S	dDl
u cdkr 8	6S 2	44744	44: - 6	44h41	44004	SM40	dDl
NGhl DGhpml	- 1 2	- h42	41: 1	4410	410S	: M01	dDl
NnTwl cmb	- h 2	: 2S: 12	: 2: 72S	: 2242-	: 22h17	SM1	dDl
. Ghocmb	1S- 1	611: - 67	0S6- 64h	6h: S7: 6	60Shh: 0	0M02	dDl
. Ghocmb	1S- 2	- 2- 0S04	- - 27h71	- 22616h	- 264S0:	1M0-	dDl
l dwCocmb	4: 1	4S14461	4: : - h41	40SS- - 0	4422h1-	7M10	dDl
l dwCocmb	4: 2	147h40	146- : S	1440S0	146667	1M46	dDl
l r 8 Ccmb	72 1	- 74	216	- 2S	- S0	20M0	dDl
l r 8 Ccmb	00 2	210	2S-	210	212	- M0-	dDl
l r 8 Ccmb	07 2	117	1- 1	1: S	1- -	12M1S	dDl
l c8dnC	27 1	12: - - - S0	126h221:	12176: 1-	1240S607	2M80	dDl
l c8vr p	1S0 1	2: Sh	2: 42	24: S	2: SS	1M76	dDl
l c8vr p	1Sh 1	220:	2260	2210	22: -	1M4S	dDl
l nocmb	2- 2	07Sh-	07: h:	00hSS	071h6	SM46	dDl
l TpnCTcmb	76 1	271- 21	27- - 00	202- 14	20hSS4	2M11	dDl
l TpnCTcmb	77 1	26S7: - 1	2: - 7666	2: : 0746	2: 67- 47	1M41	dDl
l m8mp	- 4 1	2h0- 72	2h0S42	2h0677	2h0- 01	SM11	dDl
Ar pecmb	1: h 1	77- SS22	hh1S07h	1SSSS- Sh	h: 7S- 0-	6M7S	dDl
Ar pecmb	1: h 2	410S2- :	411: 702	42: 7S1S	4171- 02	1M02	dDl
AGw8cmb	2S- 1	444-	4: : h	46- 4	4: 4:	2M1-	dDl
AGw8cmb	2S: 1	1S0: :	1Shh0	1S702	1S704	1M11	dDl
AcC	117 1	1777h	17Sh6	1h40-	1771h	- M60	dDl
AcTwCcmb	40 1	00Shh	0002S	06hhh	00202	SM11	dDl
RpwCcmb	2- 7 1	0: 1: 6	04h1-	0- : - S	04: - -	1M17	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TLu wb r Ja	N7
5 8r CTL wb D8 Jt&Jal	9 y SU6h	&8mTcnCJUwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	: 1 2	112- h0	11SS7S	111110	1111h7	1N84	dDl
YTTr pecmb	102 1	267: -	2601h	2601h	26064	SM2h	dDl
YTTr pecmb	102 2	12460	12h12	1- - 17	127hh	- MS	dDl
YTTr pecmb	106 1	1hS2-	10: - 0	17: S:	17- : :	4M1	dDl
YTTr pecmb	106 2	1h: - 1	2SS4h	1h- 0S	1h6: S	1M1	dDl
YTTpcmb	7h 1	124S0S: -	1- 04116h	14Sh4: 10	1- 414246	6M-	dDl
YTTpcmb	7h 2	14: - 4- :	14: 1: 67	146S11-	14: : S- h	SM1	dDl
ZdCd	66 2	0- 044	0- : - S	0- - h6	0- : : 6	SM24	dDl
ZqpdnCcmb	hS 1	40114	46244	44- h6	4: h17	- M2	dDl
ZqpdnCcmb	h1 1	11S- S	1SS70	1S6h6	1S6S4	4M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Drpw7hpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU0S	&8mTmC:UwdThpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mbdCmb	20 2	7S46a7	7S11SS	0a041a	7S1S0-	SM4h	dDl
qCTbnCE	121 1	a6- 0	1S112	aa62	aaS4	2M4h	dDl
qplrCcl	0h 2	11S61	1Saha	1Sa7-	11SS1	SM4a	dDl
Bwpcmb	1- h 1	ha2- 42	ha7206	6SS60-	ha0Sa0	SM02	dDl
Bwpcmb	1- 0 1	1S14670	1Sh21h0	1S722a2	1S4a012	- M4-	dDl
BrpE8mb	a 1	h0- 2	h774	h6h0	h0h7	2M81	dDl
Bdb mTG	2Sa 1	604a6- -	0Sa0a17	6a- h0h0	6a2006a	2M12	dDl
Bdb mTG	2Sa 2	- 21h42S	- - 706h7	- - aS00-	- - - 1274	- M81	dDl
Bpmbd Cr	71 1	6067	6620	027h	67a4	hM8-	dDl
5wobcmb	1S7 1	42h	h21	4SS	44a	14M22	dDl
5wobcmb	1S6 1	hSh1	47a-	4a06	4a0-	1M1a	dDl
5wobcmb	111 1	hShS	4a60	4717	4a4h	2M0	dDl
5w8lcmb	4- 1	0- S76h	0- hS72	020a20	0- 12a1	SM4a	dDl
5w8lcmb	44 1	12h4- h- 7	12612177	12- - a- - 0	124a7- hh	1M14	dDl
5wpenC	12 1	h6S- 0- 0	h0a40- S	h004117	h0241ah	1M7-	dDl
5wpenC	12 2	67644	0S106	01- S6	0SS42	1M41	dDl
5G8hpCr	- h 1	1a41S276	226a42- -	24hh0SSh	2222ShS7	11M0-	dDl
5G8hpCr	- h 2	17147h	172- 01	17h76h	17- 24S	1M26	dDl
5Gpmbcmb	h2 2	4- 000	4- SS7	42710	4- 2S1	1M17	dDl
5new8T	ha 2	4h000	44744	44h7-	4hS67	1Ma	dDl
5nDDrp	6- 2	141a06	1- 7620	1- 7044	1- a072	1M6	dDl
&El Dpnlcmb	1h6 1	14h2- 0	14hha7	14hh62	14h466	SM14	dDl
&El Dpnlcmb	1h6 2	6Shh-	h0041	h0hSS	h7ha7	2M4S	dDl
Fpecmb	164 1	1S- 7aa	1S27h6	1S4a- S	1S- 7ah	1M8S	dDl
Fpecmb	164 2	41076	4Saa-	41421	414SS	SM46	dDl
Hwon8Ccmb	16S 1	121S2-	12277a	11a620	12117S	1Mh	dDl
Hwon8Ccmb	16S 2	h0762	h6S01	hh00-	h6h6a	2M8S	dDl
ynsbcmb	16h 1	aa7117S	1S2a4h1h	a70142-	1SS4aS4S	2M17	dDl
ynsbcmb	16h 2	417h26S	4- - 7660	4- a7626	4- S0h17	2Mh	dDl
tCocmb	11h 1	01S420h	0- S07h2	027404S	02- 227a	1M14	dDl
tCocmb	11h 2	a44S7a	aa1- - S	a0h4- 2	a0S27-	2M47	dDl
tpnC	h4 2	4- 6- S- 6	421- - 10	41- h702	42- 04S7	2M0-	dDl
tpnC	h6 2	0701- h17	0646a046	00S401h2	0041S1- a	1M1	dDl
tpnC	h0 2	2S1h- SS	1a6- aS2	1a66h00	1a71a26	1M46	dDl
KpEDThC	7- 1	- 60	41S	- hS	- 06	7M21	dDl
Lrwo	2S6 1	1- 024- 6	14SS467	1416140	1- a6- hS	1Ma	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 16	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU0S	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	1162442	1101a14	116a10-	116074-	SM42	dDl
Lr wo	2S7 1	h67- 17a	h710a1a	h0aa1a4	h066060	1M20	dDl
LdTGmb	6 1	26401a0	26a1S7S	266- 46-	2660240	SM7-	dDl
9 wgCr l mb	24 2	211266h	2117h06	2Sh727S	2Sa6hS0	1M1a	dDl
9 wCgwCr l r	hh 2	1602400	1642626	16- 2- 76	164a16-	1M26	dDl
9 n8Eeor Cmb	a4 1	2ah72	276hh	2aS7a	2a1Sa	1M1a	dDl
9 n8Eeor Cmb	ah 1	2S466	21- 0h	2SahS	2Sa- S	2M10	dDl
9 n8Eeor Cmb	a6 1	2h424	2h6h7	2h64a	2hh00	SM42	dDl
9 n8Eeor Cmb	a0 1	1- S1h	1- - h0	12771	1- S74	1M70	dDl
9 n8Eeor Cmb	a7 1	- - 124	- - 416	- - a10	- - 476	1M2S	dDl
u r noEb mb	1hS 1	2hS24S	24aa6S	2h- 277	2h116-	SM04	dDl
u r noEb mb	1hS 2	0670h	04h7-	0- 242	04aSS	2M4h	dDl
u cdkr 8	6S 2	2- - Sa	226S7	22SS0	22641	2M77	dDl
NGhl DGhpm	- 1 2	4410	4hha	4hha	4h12	1M71	dDl
NnTwl mb	- a 2	61- a7S	611a- h	61Sa11	61220h	SM26	dDl
. Ghomb	1S- 1	6a61720	012h2- 1	0161hhS	0S7276a	1M1S	dDl
. Ghomb	1S- 2	- 2424- S	- - a1aS4	- - 6h- 6a	- - - - 2- 4	2Ma	dDl
l dwComb	4h 1	4061h0S	47ah1h-	4074hha	471- 061	1M47	dDl
l dwComb	4h 2	144h60	1h217a	1h24- 4	14a0- S	2M4a	dDl
l r 8 Cmb	72 1	2- S	1aa	226	217	0M72	dDl
l r 8 Cmb	00 2	- SS	- S-	27-	2a6	- M4-	dDl
l r 8 Cmb	07 2	107	10-	2SS	174	0M72	dDl
l 8dnC	27 1	aha6S2-	a02S- 0a	a46- 67a	aha- - 64	1M4	dDl
l 8vr p	1S0 1	1- aS0	1- 10-	1- h04	1- hh1	2M01	dDl
l 8vr p	1Sa 1	12647	1- - h0	1- 1h0	1- Sh4	2M7S	dDl
l nomb	2- 2	01h- 4	02h7S	02hSh	022S6	SM71	dDl
l TpnCTmb	76 1	20hh6a	27h2- 2	27S7a6	27Sh66	1M0-	dDl
l TpnCTmb	77 1	2h4ha- 1	2614S6a	24a14- -	2hhS407	2M41	dDl
l m8mp	- 4 1	- 44h0a	- h2020	- hSS7a	- 4a1- 2	1M1a	dDl
Ar pemb	1ha 1	1SS641- h	1S4404- 7	1S1a- 166	1S2- 4a1-	1M41	dDl
Ar pemb	1ha 2	4SaSh61	42hS14h	42Sh6hh	417212S	1M40	dDl
AGw8mb	2S- 1	4hh1	4067	4667	4662	2M-	dDl
AGw8mb	2Sh 1	1Sa6-	112a0	1S6- S	1Sa6-	- M84	dDl
AdC	117 1	10- 0S	1002a	17162	100h4	2M24	dDl
AdTwCmb	40 1	4SS6hS	- aa777	- a0677	- aa4Sa	SM7	dDl
RpwCmb	2- 7 1	142171	14- ah-	14hhS-	14- 70a	1M16	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU0S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	h1 2	067- h	0664S	0h4a1	06- 22	SM4h	dDI
YTTr peomb	102 1	- S167	- S200	2a474	2aa06	1M4-	dDI
YTTr peomb	102 2	14664	142- S	1- ah2	14272	2M11	dDI
YTTr peomb	106 1	2S1- 2	2S2a1	2S7Sa	2S411	1M0-	dDI
YTTr peomb	106 2	2S26S	2S607	21- 74	2S004	2M04	dDI
YTTpomb	7a 1	142S02a4	14h- 1h40	14- 2- S6h	14- h- a6a	1M14	dDI
YTTpomb	7a 2	146h007	1h- 1h11	1h11724	1hS- S- 7	2M24	dDI
ZdCd	66 2	17h24a	17S7h1	17- SaS	17- S6-	1M2S	dDI
ZqpdnComb	aS 1	46S00	47SSS	474S2	404a-	2M62	dDI
ZqpdnComb	a1 1	11S01	11177	1Sa1-	11Sh7	1M2h	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psmI Re:D :J	5 9 SF01	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112cC. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	yh77y7	y40- 01	y4Sy6-	y4yS00	SUy6	ql w
cn&AmonE	121 1	12Sy0	1- 1yS	12y2-	120- 0	4U40	ql w
crwenAq	0h 2	1- Sh6	120yh	12hhh	127S2	1Uy6	ql w
BsrAm	1- h 1	6yS122	6y6hh0	6yyS0h	6yh2h1	SU66	ql w
BsrAm	1- 0 1	11y- 0h4	12- hy71	1222hh4	12104- S	1U00	ql w
BerEFAm	y 1	6- - 4	6- 7y	6- 04	6- 66	SU4h	ql w
BAmu&G	2Sy 1	0Sh2777	6y6- - h4	0S- S117	0S1h4h-	SU66	ql w
BAmu&G	2Sy 2	- - 4h16S	- 2- S24-	- 2y220h	- 27y226	1U0h	ql w
BromAne	71 1	0hy4	0676	7227	07- 6	4U0	ql w
RsOmAm	1S7 1	66-	h60	0SS	64-	1SU6y	ql w
RsOmAm	1S6 1	h1Sy	hS74	h126	h1S0	SU41	ql w
RsOmAm	111 1	hyyy	627S	6S11	6Sy0	2U61	ql w
RsRqAm	4- 1	7SSS1S	7S6S77	7SSS42	7S2S40	SU44	ql w
RsRqAm	44 1	1- hy2hy4	1- h16441	1- 40S467	1- h26hS1	SU46	ql w
Rsrbon	12 1	h04027-	h76- 1- y	h0hy- 76	h07yy- 6	1U1S	ql w
Rsrbon	12 2	016y2	0S021	6yhh0	0S6h6	1Uh1	ql w
RGRorAne	- h 1	2Sy6S47y	24S022Sy	262776y0	2- 00- 0y7	11U26	ql w
RGRorAne	- h 2	17yy42	1yh6Sy	1y0h74	1y4- 0y	2US4	ql w
RGromAm	h2 2	h- 4h6	h- 10h	h2704	h- 167	SUhh	ql w
RobsR&	hy 2	hy667	6S200	h777h	hy61S	1U10	ql w
RoI I er	6- 2	2Sy721	2S7- y-	2Sy74-	2Sy- h2	SU4S	ql w
t EwI rowAm	1h6 1	16S701	160206	16- 7h7	164SS2	1Uyh	ql w
t EwI rowAm	1h6 2	6hS- 7	604yS	6h724	66110	1U7y	ql w
. rbAm	164 1	1212hS	12S174	11y7yS	12S441	SUhy	ql w
. rbAm	164 2	40414	406- 2	4011-	40- 76	SUhh	ql w
HsOoFAm	16S 1	1- h772	1- y- 10	1- y42h	1- 72S7	1U46	ql w
HsOoFAm	16S 2	6- h74	6- y22	64472	6- yy6	SU01	ql w
9 oPmAm	16h 1	1S1Sy64S	yy267y7	yy4S0- 6	yyy242h	1US2	ql w
9 oPmAm	16h 2	4- S7- hh	42- 60S4	4- 1S664	427h241	SUy7	ql w
DnOAm	11h 1	02S- 2y7	0S- y26S	0- Shh47	01720S2	1U70	ql w
DnOAm	11h 2	y04h61	yhS1S2	y4y7yS	yh717h	1U47	ql w
Don	h4 2	4yy0y- S	47776- S	4776110	4y24226	1U-S	ql w
Don	h6 2	7yhyh621	770- - 601	7y46S6y6	7y26- - - S	SUh2	ql w
Don	h0 2	2- 4S- 6y	2- S706y	2- - 62hh	2- 27464	SU04	ql w
KrEI &on	7- 1	411	- 00	- 7y	- y2	4U-7	ql w
LesO	2S6 1	14- h1S4	146h12h	14612h0	14h- 72y	1U12	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SF01	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
LesO	2S0 1	12S24hS	122yh07	1221602	1210ySS	1U1h	ql w
LesO	2S7 1	hy067- 1	612117h	6Sy- - h2	6S6- 07y	1U26	ql w
LA&GAum	6 1	20S462-	261yh10	26S77S2	2644- 14	1Uyy	ql w
5 sgnewAum	24 2	2227S4y	2204S2h	2242722	22472y7	1US4	ql w
5 sngsnewe	hh 2	211h77S	2S74662	21202S7	21Sy2hS	1US4	ql w
5 oPEbOenum	y4 1	4- 611	44- y6	44y04	44- 20	1Uh4	ql w
5 oPEbOenum	yh 1	274Sh	274hh	2y272	27014	1U02	ql w
5 oPEbOenum	y6 1	- h67S	- hS- 0	- h722	- hh1-	1U17	ql w
5 oPEbOenum	y0 1	10h- 0	17212	10y12	10770	1U7y	ql w
5 oPEbOenum	y7 1	46261	407SS	4h- 7-	46471	2U6-	ql w
NeoOEmAum	1hS 1	20S710	200y61	2724- 1	200S0S	2U11	ql w
NeoOEmAum	1hS 2	71y06	7- 244	72211	72400	SU72	ql w
NAqkeP	6S 2	- 1S00	- 1- - h	- 1- S7	- 124S	SU4h	ql w
8 GowI Goruw	- 1 2	h7S1	h71S	h- hy	h6h0	4Uhh	ql w
8 o&swwAum	- y 2	614607	6S7- 6h	6111h1	611- y7	SUh2	ql w
CGoOAum	1S- 1	012- y- S	6yyy122	0Sh6- h0	0Shy7S-	SU77	ql w
CGoOAum	1S- 2	- - - 2S0y	- 22ySSh	- 2y167-	- 2742h6	1Uh7	ql w
pqsnOAum	4h 1	47h0064	4011h2-	40S764h	40hy- 11	1U0y	ql w
pqsnOAum	4h 2	14y2h0	14hy6-	140h6h	140hyh	1U12	ql w
pe&enAum	72 1	24y	- Sy	- Sy	27y	12USS	ql w
pe&enAum	00 2	20S	- S-	- SS	2y1	6U1	ql w
pe&enAum	07 2	1y4	1y1	1y2	1y2	SU0y	ql w
pAqon	27 1	y46y6SS	1SSyhyy-	yh7y0h2	y017447	- U42	ql w
pAer	1S0 1	14S24	1424y	141- -	141- h	SU7S	ql w
pAer	1Sy 1	1- 16h	14- y1	1- - S0	1- 621	4Uy2	ql w
poOAum	2- 2	yh42S	yh2- h	y46y7	yh117	SUy	ql w
p&on&Aum	76 1	- 6- 026	- h7yS2	- h- 67y	- h7002	1U4S	ql w
p&on&Aum	77 1	- 1y61h0	- 27Syy-	- 260- - 6	- 247162	1U4S	ql w
pu&ur	- 4 1	- h722S	- 0SS20	- 01762	- 660S-	2US2	ql w
i erbAum	1hy 1	1S- 02S4-	1SS26h2y	1S1y- 166	1S1y0246	1U6y	ql w
i erbAum	1hy 2	4S6y447	4S7- 017	421S202	4121146	1U77	ql w
i GsPAum	2S- 1	h41S	h467	h226	h- 67	2Uh	ql w
i GsPAum	2Sh 1	12047	1244S	1- 4h0	12772	4USh	ql w
i A	117 1	- 1h0y	- - S4y	- - h60	- 20- 2	- U1h	ql w
i A&snAum	40 1	- 1472y	- 1626S	- 1h- 47	- 1h40y	SU2-	ql w
MrsnAum	2- 7 1	167140	10S0- 0	167yy2	16y2y2	SU07	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SF01	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J- -	t s&sFAe:Nsme:J	112c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h1 2	yhS0-	y20y7	y- 42y	y- 060	1U2h	ql w
Y&erbAum	102 1	- 2yh7	- 422y	- - 700	- - 677	1Uyh	ql w
Y&erbAum	102 2	16S00	166- 7	1hy1S	162S7	2U6	ql w
Y&erbAum	106 1	22h76	2- 6hh	22062	2- SS1	2U4y	ql w
Y&erbAum	106 2	22- h-	22141	21046	22S7S	1Uy	ql w
Y&&Aum	7y 1	14h- 1- SS	1442- 76y	146467S7	14h- - yy2	SU00	ql w
Y&&Aum	7y 2	1h1426y	147- 220	140y- yS	14y22yh	1U27	ql w
ZAnq	66 2	177761	176616	172h7y	176S22	1U01	ql w
ZAqonAum	yS 1	0hy4y	0h0yy	0612h	0hyh0	SU21	ql w
ZAqonAum	y1 1	16yS2	10S44	100yh	10240	2U07	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0hh062	0h6ahh	0420hS	0h1722	1N8h	dDl
qCTb nCE	121 1	220S-	2- 021	24S14	2- 40a	2M4-	dDl
qpl r Ccl	0h 2	14006	14047	140Sa	14044	SM2-	dDl
Bwpcmb	1- h 1	670aS2	6a2S61	60S4h6	67- 40-	1M07	dDl
Bwpcmb	1- 0 1	121h64S	121aS76	11716- a	12Sh4hh	1M02	dDl
Br pE8mb	a 1	- a64	4S- 4	- 724	- a4S	2M01	dDl
Bdl b mTG	2Sa 1	026- 6- 0	01712- 0	02- - a67	0226271	SM17	dDl
Bdl b mTG	2Sa 2	- 1S4ah0	- - a- aS0	- h01hS6	- - h60aS	0N81	dDl
Bpmb cCr	71 1	0220	0644	027h	0- 76	- N86	dDl
5 wob cmb	1S7 1	16S4	1aSS	1060	10h0	7M4-	dDl
5 wob cmb	1S6 1	6- 20	6- 00	62- h	6- 1-	1M14	dDl
5 wob cmb	111 1	1h46h	1h610	1h2hS	1h444	1M1a	dDl
5 w8lcmb	4- 1	h17a- 1	h21- 2a	h1616h	h177S7	SM1S	dDl
5 w8lcmb	44 1	77a6h16	707h1a-	771164a	77- 111a	SM06	dDl
5 wpenC	12 1	0640Sh2	07- 2S72	07h62- -	00074hh	1M40	dDl
5 wpenC	12 2	ah- 2h	ahh6a	a- 7Sa	a4aS1	1N81	dDl
5 G8hpCr	- h 1	22S0hS64	2h1ah1S7	2607h27S	2467h1h1	aM01	dDl
5 G8hpCr	- h 2	1a7624	2S40S7	2Sh4hS	2S2a20	1M7h	dDl
5 Gpmb cmb	h2 2	ha024	ha142	ha202	ha- 0a	SM11	dDl
5 new8T	ha 2	4- 272	4- - 0a	417h7	4274S	1M1a	dDl
5 nDDr p	6- 2	- a166-	- aS664	- 76006	- 7a0S1	SM06	dDl
&El Dpnl cmb	1h6 1	1124a7	11SS2S	1S7h7a	11S- 6a	1M0a	dDl
&El Dpnl cmb	1h6 2	442a6	4- 27-	4- 440	4- 606	1M2h	dDl
Fpecmb	164 1	0- 046	0hS2S	041aa	04- 22	SM70	dDl
Fpecmb	164 2	2a41-	2aS7a	2a67S	2a- a4	1N81	dDl
Hwon8Ccmb	16S 1	aSS0a	a1a42	a2a16	a1646	1M10	dDl
Hwon8Ccmb	16S 2	4211-	422a0	42SS-	421- 7	SMlh	dDl
y n8b cmb	16h 1	1S1hSh17	1S1h- 4- S	1SShh77-	1S11aa44	SM1h	dDl
y n8b cmb	16h 2	- a7S- hh	4227aSa	4626h6h	420761S	0M62	dDl
tCocmb	11h 1	02h0h14	0ha0114	0404aa4	044- 2S7	2M1	dDl
tCocmb	11h 2	7a- 021	a02aSa	1Sh1S70	a02h02	7N8a	dDl
tpnC	h4 2	- 74hh42	- 07- 74a	- 020166	- 07hh1a	1M16	dDl
tpnC	h6 2	6a2246- h	6a- 1h- S6	60aaSa- -	6774- 62h	1N80	dDl
tpnC	h0 2	1071aa-	10740ha	10- 766h	1067402	1M46	dDl
KpEDTnC	7- 1	- 4a	- S2	- 42	- - 1	0M10	dDl
Lr wo	2S6 1	1S6a24- 0	1Sh207S2	1S4a777a	1Sh0- S4-	SMla	dDl

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LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&c8mTcnC:UwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUc8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S0 1	770Saah	7aS746-	aS4- 041	7a41S66	1N82	dDl
Lr wo	2S7 1	422S1242	416- 402S	4210a1a-	42SShSh1	SM06	dDl
LcTGmb	6 1	26h6aa4	2044440	267a01-	26a0Sh2	1M04	dDl
9 wgCr l cmb	24 2	1hh- ha1	1h24ha-	1471S62	1h1a04a	2M4S	dDl
9 wCgwCr l r	hh 2	16- 0- 40	16- - 42S	1h7h100	1617647	1M0a	dDl
9 n8Eeor Cmb	a4 1	22007	2227h	216h1	222- 7	2M14	dDl
9 n8Eeor Cmb	ah 1	1aS14	17- 2a	17h6-	176- h	1M70	dDl
9 n8Eeor Cmb	a6 1	222S1	2- 2S-	22217	22h41	2M14	dDl
9 n8Eeor Cmb	a0 1	11040	12102	12- - a	12S76	2M1-	dDl
9 n8Eeor Cmb	a7 1	- S426	- S- 2h	- SSha	- S20S	SM0-	dDl
u r noEb cmb	1hS 1	1a6h26	1a6- S1	1a21h7	1a4aah	1M26	dDl
u r noEb cmb	1hS 2	h712a	h6760	h02- 2	h04Sa	1M1-	dDl
u cdkr 8	6S 2	2h- a6	2hS1h	2- h- -	24647	- M4a	dDl
NGhl DGhpm	- 1 2	6hh2	01S2	67h2	67- h	4N8-	dDl
NnTwl cmb	- a 2	021S1a	0S7h62	6aahha	0Sa014	1M12	dDl
. Ghocmb	1S- 1	0217S7-	0- h74hS	027S16-	027hh6h	SM40	dDl
. Ghocmb	1S- 2	2aah027	- 2a2627	- 4a62aS	- 261h4a	0M02	dDl
l dwCocmb	4h 1	47ah602	40a1h00	4007hah	4721a47	1M-	dDl
l dwCocmb	4h 2	1- 4hSh	146- - 4	1ha727	14677a	7M0-	dDl
l r 8 Ccmb	72 1	22S	262	106	22S	1aM04	dDl
l r 8 Ccmb	00 2	2S-	170	1a-	1a4	4M1	dDl
l r 8 Ccmb	07 2	146	124	14a	14S	aM07	dDl
l c&dnC	27 1	1S- 0- - - 4	1Sh204S7	1S41S- 02	1S4- 0S- 7	SM00	dDl
l c&vr p	1S0 1	000- 6	07- 72	7241-	0ah1S	- M4a	dDl
l c&vr p	1Sa 1	0h441	0676h	02- 72	047a6	- N86	dDl
l nocmb	2- 2	1722h0	10771a	1007- -	10a6- 6	1M2a	dDl
l TpnCTcmb	76 1	- 4aS6S	- h4- 7a	- 470S2	- hS010	SM41	dDl
l TpnCTcmb	77 1	- 2hS4S7	- 1a04S6	- 2204- 2	- 22hS72	SM72	dDl
l m8mp	- 4 1	4276- 0	4- 2711	42a776	4- S44h	SM1S	dDl
Ar pecmb	1ha 1	1ShS4720	1S41- 160	1S40- 14a	1S46- 01h	SM44	dDl
Ar pecmb	1ha 2	- 0a22- 4	41- 1012	4haha0-	410- - S6	aM00	dDl
AGw8cmb	2S- 1	4S- 4	- 606	- aa2	- aS1	hN8-	dDl
AGw8cmb	2Sh 1	a470	a001	a60a	a646	1M1S	dDl
AcC	117 1	hSS2h	h26- h	h1112	h12h7	2M16	dDl
AcTwCcmb	40 1	44a1aS	4460aa	446h- 6	440hS7	SM-	dDl
RpwCcmb	2- 7 1	1S- 144	1SS04S	1S2a2h	1S220S	1M1S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 17	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU02	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	h1 2	7- - 07	727- 2	724h6	7277a	SM16	dDI
YTTr peomb	102 1	2S266	2SSa1	2S2S7	2S177	SM44	dDI
YTTr peomb	102 2	aha7	a7S4	ah0S	a6h0	1M2	dDI
YTTr peomb	106 1	1470h	14hSS	140hS	140Sa	1MS	dDI
YTTr peomb	106 2	16201	17S7h	17a1a	100ha	0M62	dDI
YTTpomb	7a 1	14- ha0a1	14- h4271	14- 0h2- 4	14- 6- 1S2	SM87	dDI
YTTpomb	7a 2	1- - 20a1	14- 2411	1hha2a6	14414aa	0M77	dDI
ZdCd	66 2	h1SS7S	hS6a04	4aa- h1	hSh467	1M8a	dDI
ZqpdnComb	aS 1	- 20a7	- 1- 76	- 11a4	- 10a2	2M06	dDI
ZqpdnComb	a1 1	011S	0- 44	01- h	01a6	1M07	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU0-	&8mTmCJJwdThpla	1
&wTr J JAcb r Jqd Cmpr o Ja	2S2- S0 12J17a22a2-	&wTwJu8 Ju wb r Ja	114q. FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
q8mb cCmb	20 2	667017	667022	661- 62	666260	SM04	dDI
q CTb n Ch	121 1	1: 7E0	1: 0: S	17: 02	1: E- :	2N42	dDI
q pl r Ccl	0E 2	146E-	14- 0E	141: S	144S6	1N02	dDI
Bwpcmb	1- E 1	E00: 21	E0: S2-	E0- 2S:	E06017	SN44	dDI
Bwpcmb	1- 0 1	1S2026E	1S20- 22	1S11717	1S221- E	SM10	dDI
Br ph8mb	: 1	- EEE	- 61:	- E71	- E7E	SM1:	dDI
Bdl b mTG	2S: 1	011: 2S2	01241S7	0SS4760	0S72026	SMIE	dDI
Bdl b mTG	2S: 2	- 2770S0	- 276E- :	- 26E64E	- 27S2: 0	SM1:	dDI
Bpmb cCr	71 1	667E	6- 67	6217	6424	- N01	dDI
5 wob cmb	1S7 1	16S4	1746	10S7	102S	0N8E	dDI
5 wob cmb	1S6 1	E726	6267	6S67	6SE4	- N0E	dDI
5 wob cmb	111 1	2- 27:	2- S: 0	2246S	22: 47	1M1:	dDI
5 w8lcmb	4- 1	27- S- 0	27E- 02	274610	274- 42	SM42	dDI
5 w8lcmb	44 1	471767-	4746606	ES2E211	47: 67E0	2M2:	dDI
5 wpenC	12 1	- 072E21	- : : : 407	- : 27E02	- : S- E24	2M1-	dDI
5 wpenC	12 2	4616E	40076	46247	460- -	1MIE	dDI
5 G8hpCr	- E 1	2SS0- 4S1	2- 1762- 7	24746100	220S1: - :	1SN00	dDI
5 G8hpCr	- E 2	172E: S	174ES:	176SE:	174- 76	SM14	dDI
5 Gpmb cmb	E2 2	- : 017	- : : E:	- : : 42	- : 70-	SM14	dDI
5 new8T	E: 2	- - 67S	- - 16E	- - - E2	- - - : :	SN07	dDI
5 nDDr p	6- 2	- - 1: 06	- - 41E2	- - - - 0-	- - - 160	SM-	dDI
&hl Dpnl cmb	1E6 1	04700	06: : 7	06670	06170	1NES	dDI
&hl Dpnl cmb	1E6 2	- 1260	- 11: 6	- S- 01	- S: 4E	1N01	dDI
Fpecmb	164 1	E4- S-	E- 610	E- 7E1	E- : 24	SN0E	dDI
Fpecmb	164 2	2S64:	2S71-	21S6S	2S741	SM:	dDI
Hwon8Cmb	16S 1	6- - 67	6- - S:	622EE	62: 07	SM1:	dDI
Hwon8Cmb	16S 2	- SS40	- SSS0	2: S07	2: 011	1M74	dDI
y n8b cmb	16E 1	1S- 14: 17	1S1671- 6	: : 0E744	1S1E2: 66	1N00	dDI
y n8b cmb	16E 2	414SSSE	4242EE:	42EE1: 4	4212E76	1NES	dDI
tCocmb	11E 1	0- 201S4	0- S01E:	04EE- E:	0- 6- 2S0	1N8:	dDI
tCocmb	11E 2	: 64- EE	: E4644	: ES16E	: E6- 77	SN06	dDI
tpnC	E4 2	- SE76S7	- SE2700	- S2211S	- S44E- 1	SN04	dDI
tpnC	E6 2	EE1E7612	E402S267	E40S171S	E476S2- S	SM40	dDI
tpnC	E0 2	1- S47: :	141E21:	127E4- 1	1- - E17-	EM24	dDI
KphDThC	7- 1	- S6	- E1	- 26	- 27	6M70	dDI
Lr wo	2S6 1	E1S- S01	E104: 76	ES: 21S-	E12- - 70	SM17	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU0-	&c8mTcnCJJwdThpla	1
&wTr J JAcb r JqdCmpr o Ja	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q . FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
Lr wo	2S0 1	4261260	4- : : 4- -	4- SE2S1	4- 21: 60	1M6-	dDl
Lr wo	2S7 1	1: : 40: 06	2S4: 0EE2	2SS2S260	2S1EE26E	1M47	dDl
LcTGcmb	6 1	26: 7E01	20E67- 2	206SE1E	20- 76- :	1M20	dDl
9 wgCr l cmb	24 2	7676SS	7E0: 6:	766: E-	764ES0	SM06	dDl
9 wCgwCr l r	EE 2	142274E	1206- : -	1- 7E: 26	1- 61021	EM4:	dDl
9 n8heor Cmb	: 4 1	2- 262	22: 11	22: 07	2- SES	SM71	dDl
9 n8heor Cmb	: E 1	2S- 04	2S74:	2S172	2S467	1M67	dDl
9 n8heor Cmb	: 6 1	2- 6- 0	2E- 66	242EE	2441:	- M4:	dDl
9 n8heor Cmb	: 0 1	14S: :	1- - 72	120: S	1- 424	4M7:	dDl
9 n8heor Cmb	: 7 1	- - SS0	- 47E-	- 2: 71	- - 614	- M1:	dDl
u r nohb cmb	1ES 1	1- 0: S7	141161	1- EE07	1- 7216	2M8-	dDl
u r nohb cmb	1ES 2	41702	4S: 16	4S444	41S00	1M00	dDl
u cdkr 8	6S 2	1: 01S	1: E74	1: 400	1: E: S	SM0S	dDl
NGhl DGhpml	- 1 2	- 2S:	- 4S:	- 6- 4	- 410	6M22	dDl
NnTwl cmb	- : 2	4- S- 0:	421- - 1	4212E7	424- 2-	1M24	dDl
. Ghocmb	1S- 1	026E- E0	0- 24- 21	01600: 7	02E24: 2	1M8:	dDl
. Ghocmb	1S- 2	- 2: 67: 7	- 20EE1S	- 2267E2	- 26642S	1M1S	dDl
l dwCocmb	4E 1	406E011	47- E774	40404- 0	407- S11	SM17	dDl
l dwCocmb	4E 2	140E42	14000E	1466S0	140- S7	SM42	dDl
l r 8 Ccmb	72 1	1E0	122	1E1	144	12M7	dDl
l r 8 Ccmb	00 2	16-	14S	1- -	146	1SM72	dDl
l r 8 Ccmb	07 2	11S	1S1	: S	1SS	: M7	dDl
l c8dnC	27 1	76- - - 42	77: : E0:	700EE- -	706: 47E	1M42	dDl
l c8vr p	1S0 1	- 76- S	- : 742	4S644	- : 0SE	2M4E	dDl
l c8vr p	1S: 1	- 061S	- 7S2S	- 6: S:	- 0E1-	1M4S	dDl
l nocmb	2- 2	1: 17S7	1: S72-	1: 1SS6	1: 121-	SM20	dDl
l TpnCTcmb	76 1	- 147- E	- 1E2- E	- 1- 11S	- 14- : -	SM16	dDl
l TpnCTcmb	77 1	2: 2S644	2: : 6: - 4	2771174	2: - 2: 21	2M81	dDl
l m8mp	- 4 1	- 4- E02	- - 7007	- 4- SE1	- 417SS	SM00	dDl
Ar pecmb	1E: 1	1S- 62E24	1S2: 21E2	1S267- 2E	1S- S0660	SM47	dDl
Ar pecmb	1E: 2	4116: 4:	41- SS0S	4S: S2- -	4112410	SM4:	dDl
AGw8cmb	2S- 1	2: 74	- SES	- 210	- S74	- M1S	dDl
AGw8cmb	2SE 1	0461	0220	6: 00	0222	- M1E	dDl
AcC	117 1	- 20: 7	- 441:	- 2464	- - 220	- M1E	dDl
AcTwCcmb	40 1	- 47426	- 612: 1	- E47- 2	- E47ES	1M71	dDl
RpwCcmb	2- 7 1	7: SE4	7: 60E	: S1- 6	7: 622	SM01	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwThpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TLu wb r Ja	N7
5 8r CTL wb D8 Jt&Jal	9 y SU0-	&8mTmCJUwdThpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwocmb	E1 2	74700	7EEES	747S-	7ES06	SM47	dDl
YTTr pecmb	102 1	1E: : -	16- S2	16- 6:	16221	1M4-	dDl
YTTr pecmb	102 2	7SS-	0ES7	066-	002E	- M40	dDl
YTTr pecmb	106 1	111: 0	11622	11S22	1127S	2M04	dDl
YTTr pecmb	106 2	16220	16S: -	16- 44	16221	SM00	dDl
YTTpcmb	7: 1	14S6E: 16	1426072S	1- 7S6: 04	14S46: S-	1M64	dDl
YTTpcmb	7: 2	1- : 6- S2	14270EE	1- 2744:	1- 74ES2	- M0S	dDl
ZdCd	66 2	621E24	621S- 1	62260:	62104E	SM14	dDl
ZqpdnCcmb	: S 1	- S726	- S20E	- 17E4	- S: 7E	2ME:	dDl
ZqpdnCcmb	: 1 1	0SS2	6620	016S	6: - S	- MIE	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.uwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

Nwpwb r Tr p	R wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl R r w.	3 Nl 5 l &	M. dT
q8mb c mb	20 2	1917S6y	19S047S	1J720J9	1JJ442J	2F7J	dDl
q. Tb C. h	121 1	2047467	266117J	26y6412	26J0SS4	1FJ2	dDl
qpl r . cl	0y 2	62621	627S1	6122y	62S49	1F1J	dDl
Bwpmb	17y 1	7SS04J6	2JJ112J	292yS02	2970J9y	2F1J	dDl
Bwpmb	170 1	y12yJ60	yS22yJy	y1S1JJ4	ySJ744y	1FS6	dDl
Br ph8mb	9 1	62Sy04	6124J0	6S4J24	61262J	1F29	dDl
Bdl b mlE	2S9 1	6742Jy1	6S07042	y946460	6121S2S	7F71	dDl
Bdl b mlE	2S9 2	204414S	2J79169	20SJ1SJ	2067JS6	2F4y	dDl
BpCb c r	J1 1	4192	42S1	441J	420S	2F99	dDl
3 wob mb	1SJ 1	y742J	y191S	y199J	y244y	1F67	dDl
3 wob mb	1S6 1	04447	07701	07S61	0762y	SF9J	dDl
3 wob mb	111 1	621407	61J70J	612Jy9	610y0S	SF01	dDl
3 w8lmb	47 1	7092JJ1	7JS2Sy0	70776S0	70061J1	SF9J	dDl
3 w8lmb	44 1	6S940960	61S12246	y9SyS016	6S776906	1FJy	dDl
3 wpeC.	12 1	260S971	20y01y4	2042JS6	202767S	1F0S	dDl
3 wpeC.	12 2	766y4	7y67y	7y7S1	7yJ64	1F90	dDl
3 E8Cpc r	7y 1	111S02S	1S42690	1S72969	1S62129	7F99	dDl
3 E8Cpc r	7y 2	6994	01S2	6J47	69JS	1FJ6	dDl
3 EpCb mb	y2 2	66S012	6yJ940	6y1S9S	6y6916	SF0J	dDl
3 Cew8T	y9 2	11J070J	110429S	11606S9	1106426	SFJy	dDl
3 CDDr p	67 2	9J16121	90y7S99	9644yJ9	9070976	SFJ9	dDl
&hl DpCl mb	1y6 1	042	0J7	60y	077	0F4y	dDl
&hl DpCl mb	1y6 2	740	70S	77S	749	yF06	dDl
Gpemb	164 1	1yJ	160	1yJ	161	2F9J	dDl
Gpemb	164 2	yS	y0	00	61	22F01	dDl
HwoC8c mb	16S 1	0SJ	00y	0J7	0y6	yF44	dDl
HwoC8c mb	16S 2	ySS	4J7	440	400	yF02	dDl
KC8b mb	16y 1	9699S46	9262SJ1	91J1620	97JS91J	2F90	dDl
KC8b mb	16y 2	700S29y	7009S69	707J700	7062yJS	SFy0	dDl
t. omb	11y 1	660S6Sy	67J7S40	6790y20	64J7020	2FyS	dDl
t. omb	11y 2	J2914y	J11242	J16499	J1J962	1F12	dDl
tpC.	y4 2	000JJS6	0911y2y	06y0J6J	00J2077	1F67	dDl
tpC.	y6 2	144S64192	142y221y9	17976y160	1419J7J79	1F69	dDl
tpC.	y0 2	76J121y	7611J22	7646266	7646474	SF9y	dDl
gphDTC.	J7 1	210	2yS	294	2y4	1yFSJ	dDl
Lr wo	2S6 1	120079y4	124SS79S	122S014S	1246S494	2F71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r Tuwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

NwpwbrTrp	Rwl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl Rrw.	3 Nl 5 l &	M. dT
Lr wo	2S0 1	1S9y0646	1S0S617S	1S70yyyS	1S60900y	2F07	dDl
Lr wo	2SJ 1	yS0y9620	4926SJJ9	4J4y7y41	494917y2	2F76	dDl
LdEcmb	6 1	27212J0	229762J	226Sy44	2291J2S	1F77	dDl
Rwk. r l cmb	24 2	26622y21	26216227	267J6S7S	264SJ2yJ	SF00	dDl
Rw. kw. r l r	yy 2	76S1747	76S4S6S	7y200Sy	7y000S7	1F21	dDl
R C8heor . mb	94 1	90649yS	90Jy20J	949271J	96JSJ49	1F69	dDl
R C8heor . mb	9y 1	14406296	14772y9S	17020049	1410JJ0J	2FJS	dDl
R C8heor . mb	96 1	1yy66467	1y9y77SJ	14JSSJS0	1y44S197	7FJS	dDl
R C8heor . mb	90 1	JJ116y9	J9901yS	J411J2S	J04S21S	7F42	dDl
R C8heor . mb	9J 1	220J6y2y	2266J219	22127JJS	22y262SJ	1Fy0	dDl
u r Cohb cmb	1yS 1	240	2SS	207	24S	1yF46	dDl
u r Cohb cmb	1yS 2	77	20	6S	4S	44FS9	dDl
u cdvr 8	6S 2	71JSyy	71J606	7149J9	71024S	SF62	dDl
NECl DECpml	71 2	19S21	1J996	1J409	1JJ72	1F67	dDl
NCTWl l cmb	79 2	Jy7S77y	J41y176	J261yS9	J4S2726	1F61	dDl
5 ECocmb	1S7 1	676S1S6	619S9SS	6S1y412	61JJJS6	2F0J	dDl
5 ECocmb	1S7 2	202SyJ4	26y6S6J	262S1J0	266y617	1F91	dDl
l dw. ocmb	4y 1	47S49S9	41y1299	4Sy0224	4101144	7FSS	dDl
l dw. ocmb	4y 2	120S9S	124666	12426y	12y74S	1F22	dDl
l r 8 . cmb	J2 1	46204	4y9JS	4yS4y	4y066	1F4S	dDl
l r 8 . cmb	00 2	140S	179S	176S	14S0	4FS4	dDl
l r 8 . cmb	0J 2	44SJ	4770	42J9	474y	1F7J	dDl
l 8dC.	2J 1	2J744491	209y0yS4	20y0yJS9	209y926J	1F70	dDl
l 8r p	1S0 1	7796J40	747yS20	720661J	7769490	2F4y	dDl
l 8r p	1S9 1	72699SS	71J2020	72S1916	721J1J1	1F42	dDl
l Cocmb	27 2	402JS444	46J0y99y	40JSJ2S4	40721y4J	SF99	dDl
l TpC. Tcmb	J6 1	19y4494S	1J92y071	1J496SSJ	1J9JJJ97	2F0J	dDl
l TpC. Tcmb	JJ 1	160047S9y	167J06409	1620J944y	164JS7SS6	1FyJ	dDl
l m8Vmp	74 1	y6Sy99	yy41S6	y4911S	yy46Sy	1FS4	dDl
Ar pecmb	1y9 1	9J70S67	97yy6S9	974J007	9y17J1y	2F94	dDl
Ar pecmb	1y9 2	7047167	76y0090	76J9760	7696006	1F10	dDl
AEw8cmb	2S7 1	7SJJJSS	299021S	297yy14	7SS010y	2Fy6	dDl
AEw8cmb	2Sy 1	0179904	6906472	6J19746	690JyJ4	2F7S	dDl
Ac	11J 1	2246Jyy	219J91J	214S092	219yy22	2F42	dDl
AcTw. cmb	40 1	709021y	701y4y7	7640y67	702SS00	2FS1	dDl
Mpw. cmb	27J 1	1S629277	1S27010S	1S26929S	1S70Jy6y	2F1S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:I wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.u wb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

Nwpwb r Tr p	R wl l	3 NI 1	3 NI 2	3 NI 7	3 NI R r w.	3 NI 5 l &	M. dT
- w. wocmb	y1 2	y2201J	y17S2S	yS66y0	y14172	1Fy0	dDl
YTTr pecmb	102 1	1yJ	210	142	102	22FJ0	dDl
YTTr pecmb	102 2	1S6	60	J9	J0	22F42	dDl
YTTr pecmb	106 1	17066	17699	17924	17096	SFJ4	dDl
YTTr pecmb	106 2	14992	1y72S	1490S	1yS94	1F7S	dDl
YTTpcmb	J9 1	1229766J	11J7262y	11y6JSyJ	11J9J110	7FS9	dDl
YTTpcmb	J9 2	1124J77	1SJ9220	1SJ6219	11SSS97	1F9y	dDl
Zc d	66 2	114J1S0	1149y16	114yJ42	1140J22	SF16	dDl
ZcpdC. cmb	9S 1	4yy109S	4y9y121	44S09Jy	4y1J299	2F10	dDl
ZcpdC. cmb	91 1	9J922S	99466y	9y7J62	909249	2F26	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame cqduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
cRmACAm	2072	1: 9	166	1y9	1: 2	: FS2	ql w
cC&AmnCh	12171	: - -	1S42	12- -	1S- 6	1yF- 1	ql w
crweCAq	0972	:	0	1-	y	- 4F44	ql w
BsrAm	1- 971	19S	142	9S	114	4: F02	ql w
BsrAm	1- 071	2: -	2SS	1S:	1y0	44F- :	ql w
BerhFAm	y71	1- 4	11S	: 6	11S	21F9y	ql w
BAmu&E	2Sy71	60261S2	601yy26	66y1- y1	601240-	SF2:	ql w
BAmu&E	2Sy72	26: 002:	- 21: y6:	- 221040	- S42: 19	1SF11	ql w
BrnmACe	: 171	- : 42	- ySy	- y42	- : y:	1F- 1	ql w
3 sOmAm	1S: 71	1-	9S	10	26	00F: :	ql w
3 sOmAm	1S671	- 460	- - - 4	- 060	- 92-	6F- S	ql w
3 sOmAm	11171	4- S	4- 2	461	441	- Fy0	ql w
3 sRqAm	4- 71	- y1	- 09	2y9	- 94	14F96	ql w
3 sRqAm	4471	44- 91	4- 2- 0	42: : 1	4- 4: y	1F06	ql w
3 srbnC	1271	2- - : S44	2- 2- 9SS	2- 40y1y	2- - 64: 0	SF9-	ql w
3 srbnC	1272	20: 00	2: 1y4	20: : 6	20y: 6	SF69	ql w
3 EPrACe	- 971	y4S21-	y2y412	y162: 0	y2: 6- 0	1F2y	ql w
3 EPrACe	- 972	6- 6:	64- 9	6S4-	62: 2	- F- 4	ql w
3 ErnmAm	9272	y6S	1110	1160	1S: 1	yFy0	ql w
3 nbsR&	9y72	11S	1S0	1SS	1S6	4F: 2	ql w
3 nI I er	6- 72	210S	2264	2S90	2164	4F0:	ql w
t hwI rnwAm	19671	9S	S	S	10	10- F21	ql w
t hwI rnwAm	19672	S	-	-	2	: 6F6S	ql w
. rbAm	16471	9S	42	9:	9S	16F66	ql w
. rbAm	16472	0	10	2-	16	9- FyS	ql w
GsOnFACAm	16S71	29	60	y2	61	99F11	ql w
GsOnFACAm	16S72	y0	19-	14S	1- S	22F0y	ql w
HnPmAm	16971	y0660: 9	y- - : 611	y299y4y	y49- 0: 2	2FyS	ql w
HnPmAm	16972	- 4y66S2	4S- 9- S:	41- : - 0y	- : ySSy6	: F: 6	ql w
DDOAm	11971	6y09946	0S2: 409	66y- 00-	6: yy264	2F61	ql w
DDOAm	11972	0y0S4-	y- : : : :	y49y4S	: y- y90	yF4S	ql w
DnC	9472	060	0y9	6: y	09S	0F- S	ql w
DnC	9672	y961	1S62y	0yy-	y- y4	14F12	ql w
DnC	9072	- 02	- 11	- 2:	- - 0	yF- 0	ql w
KrhI &nC	: - 71	242	292	249	240	2F11	ql w
LesO	2S671	1096	1660	1460	16- S	yFS:	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 ReC&psml Re D J	3 3 BS26	t AR&NC Usq&ar J	1
t s&e T i Ame cqduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
LesO	2S071	1911	1422	1- SS	1411	0F91	ql w
LesO	2S: 71	0S49	6062	9096	6921	1SF- y	ql w
LAEAum	671	29219yy	2- 64: - 0	2- y2- 6S	2426269	- F49	ql w
RsgCewAum	2472	2142	1- 10	y: -	14: 1	4SF2y	ql w
RsCgsCewe	9972	190	2: S	2S-	21-	2yF1y	ql w
RnPbOeCum	y471	11S:	yy2	6y2	y- 1	2- F1S	ql w
RnPbOeCum	y971	119:	1- SS	: y2	1110	1: F90	ql w
RnPbOeCum	y671	16SS	129S	y29	129:	26F-	ql w
RnPbOeCum	y071	: 09	0S:	49:	6: 1	- SF: 2	ql w
RnPbOeCum	y: 71	2229	10y2	12: -	1060	26F6:	ql w
NenChmAum	19S71	2S	1-	0	1-	4yFyy	ql w
NenChmAum	19S72	S	-	S	1	10- F21	ql w
NAqkeP	6S72	00	11S	yS	y2	1: F1y	ql w
8 EnwI Enruw	- 172	09	y2	160	111	4- Fy9	ql w
8 n&swwAum	- y72	14904	14- 66	1- 6yS	1421S	- F29	ql w
5 EnOAum	1S- 71	0S: 1226	60: - 1S4	6: 9S260	6yS4: 66	2F26	ql w
5 EnOAum	1S- 72	2041- 01	- 192yyS	- 2Sy99y	- S- 464S	: F42	ql w
pqsCOAum	4971	44091y2	44S2- : S	4- 6: 996	4419- 06	1F2-	ql w
pqsCOAum	4972	1104y9	1- 0911	1- : y6-	1- 1- 2-	yF14	ql w
pefeCAum	: 271	21	71-	-	4	49SFy2	ql w
pefeCAum	0072	S	S	S	S	SFSS	ql w
pefeCAum	0: 72	1:	12	2-	1:	- 1F10	ql w
pAAqnC	2: 71	1y090:	1yS24y	1: : 41S	1y2S0y	2F9-	ql w
pAPer	1S071	- 9:	- : -	2: -	- 42	19F2-	ql w
pAPer	1Sy71	209	- 09	129	29:	4: F01	ql w
pnOAum	2- 72	9Sy4y	4y- 9y	49026	4: 60:	9F9S	ql w
p&nC&Aum	: 671	12y2	1110	6: -	1S- 1	- SF- y	ql w
p&nC&Aum	: : 71	: S42	9: 20	- 2: 4	901:	41F64	ql w
pufPur	- 471	- S- - y6	- 1S6S-	- S: 099	- S09: 9	1F22	ql w
i erbAum	19y71	yyS- - - 0	y900919	y99409:	y60: 9- 0	2FS1	ql w
i erbAum	19y72	- 492S44	- y20: 09	- y42S1:	- 00- y0y	0F- y	ql w
i EsPAum	2S- 71	1- y2	1210	1S9:	1222	1- F64	ql w
i EsPAum	2S971	- - 9y	2y9S	2: 42	- S9S	: Fy-	ql w
i AC	11: 71	y10	1S9S	1160	1S49	11Fy:	ql w
i A&sCAum	4071	2: -	209	210	29:	14FS6	ql w
MrsCAum	2- : 71	- y2	- 10	2y2	- - -	19F61	ql w

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Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8 :
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame c qduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
VsCsOAum	9172	- -	- -	20	- 1	12F- 6	ql w
Y&erbAum	10271	- -	42	09	9S	44F1S	ql w
Y&erbAum	10272	6	- -	- -	24	66F6S	ql w
Y&erbAum	10671	1- 10	1109	129S	1240	9F6:	ql w
Y&erbAum	10672	y1: 1	1114y	11961	1S6- S	11Fy6	ql w
Y&&Aum	: y71	124yS60S	1299- 44y	12261260	124- 912y	1F24	ql w
Y&&Aum	: y72	1S6S: : 1	122: Sy9	1241260	110604:	: F99	ql w
ZACq	6672	24S	29S	210	2- 6	0F26	ql w
ZAqnCAum	yS71	960	9S:	460	914	yF0:	ql w
ZAqnCAum	y171	142	09	: -	1SS	- 6F- 2	ql w

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Prep Standard - Chemical Standard Summary

Order ID : O3446

Test : Metals CLP MS FULL

Prepbatch ID : PB1539210

Sequence ID/Qc Batch ID: LB12, 4760

Standard ID :
MP649310MP656880MP658150MP6581, 0MP659, 20MP6, 1150MP6, 11, 0MP6, 1250MP6, 1260MP6, 1280MP6, 1320MP6, 13
50MP6, 13, 0MP6, 2360MP6, 2380MP6, 2390MP6, 2470MP6, 2410MP6, 2420MP6, 2430MP6, 2440MP6, 2450MP6, 2460

Chemical ID :
M44780M4, 560M46760M46180M46, 80M48250M48640M48650M486, 0M48660M48870M48810M48820M48830M48840M48850
M488, 0M48880M48890M48910M57190M57270M51710M51840M51920M51930M52770M52710M52240M52260M52290M52370
M52310M52440M52450M52890M52930M52980M53710M53860M54480M54520M54, 80M54, 90M54630M55210M55550M55650
M55860M55960M55990M5, 730M5, 7, 0W2, 7, 0

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
W45	514:HCL	MP74325	04/53/9092	03/07/9092	Aa-aTet:r akI a	s onc	s onc	Nin:Hc 04/53/9092

FROM 5. 00m00000l :of:+ 9W0W6:. 00m00000l :of:M. 4. 9::=:Fina :Quantity19000m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5599	bCPMA:Cj LbN: NLj s JwA0/bCN/CCN8	MP7. 7SS	0W59/9092	0W20/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 0W52/9092

FROM 9. m00000l :of:M. . . . :6:439. m00000l :of:+ 9W0W6:. 0m00000l :of:M. . 7. ::=:Fina :Quantity1. 000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W4	C) s CrnCAA:APbJ B	MP7. S5.	0W59/9092	0W20/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 0W52/9092

FROM

0r0. 000I :of:M475S:6:0r0. 000I :of:M47WS:6:0r0. 000I :of:M4S9. :6:0r0. 000I :of:M4S74:6:0r0. 000I :of:M4S7W6:0r0. 000I :of:M4S77:6:0r0. 000I :of:M4SS5:6:0r0. 000I :of:M4SS. :6:0r0. 000I :of:M4SS3:6:0r0. 000I :of:M. 993:6:0r0. 000I :of:M. 920:6:0r0. 000I :of:M. 472:6:0m0000I :of:M4W 7:6:0m0000I :of:M. 994:6:0m0000I :of:M. 9S3:6:0m0000I :of:M. . 95:6:5r0. 000I :of:M4707:6:5r0. 000I :of:M4SS2:6:5r0. 000I :of:M4SSW6:5r0. 000I :of:M4SSS:6:5r0. 000I :of:M4S35:6:5r0. 000I :of:M. 539:6:59m0000I :of:M. 532:6:59m0000I :of:M. 900:6:59m0000I :of:M. 905:6:59m0000I :of:M. 4WS:6:5. 5r0. 000I :of:+ 9W0W6:9m0000I :of:M4SS4:6:9m0000I :of:M. 2S7:6:9m0000I :of:M. . . . :6:. r00000I :of:M. 93S:6:. r00000I :of:M. . 7. :6:Wr0. 000I :of:M4S7. :6:Wr0. 000I :of:M4SS0:6:Wr0. 000I :of:M4SS9::=:Fina :Quantity 19. 0r000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
S70	bCPMA:APbJ B:A) LrhI	MP7. S5W	0W59/9092	0W20/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 0W52/9092

FROM

0r4. 000I :of:M4SS2:6:. r00000I :of:M440S:6:. r00000I :of:M. 505:6:23m. 000I :of:MP7. 7SS::=:Fina :Quantity 1. 0r000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5V3	515Hs) 2	MP7. 3V9	0W92/9092	59/50/9092	j EKc-c_:bkaaO	s onc	s onc	Aa-aTet:r akI a 0W92/9092

FROM 59. 0r00000I :of:M. . S7:6:59. 0r00000I :of:+ 9W0W:=:Fina :Quantity19. 00r000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5599	bCPMA:Cj LbN: NLj s JwA0/bCN/CCN8	MP7W55.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 9. r00000I :of:M. W02:6:439. r00000I :of:+ 9W0W6:. 0r00000I :of:M. . 37::=:Fina :Quantity1. 000r000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9309	AS:bCPMA	MP7W55W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 5m00000l :of:M. 9S3:6:9m0000l :of:M. 905:6:9m0000l :of:M. 93S:6:. m00000l :of:M. 532:6:. m00000l :of:M. 900:6:. m00000l : of:M. 4WS:6:73m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. S	bCVwAFj M8	MP7W59.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 9m00000l :of:M. 932:6:3Sm00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5549	bCAj :bCPMA	MP7W597	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:30m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5542	bCAj N:bCPMA	MP7W59S	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:50m00000l :of:M. 94. :6:S0m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W9	MG:50PPM:F) R:KUs B	MP7W529	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 0n05000l :of:M. 4WS:6:3n03000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2S34	KUs B:900PPN	MP7W52.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM 9n00000l :of:M. 925:6:9n00000l :of:MP7W529:6:3Wn00000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2302	bAA:2PPM	MP7W52W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/02/9092

FROM . m00000l :of:M. . 37:6:7. m00000l :of:M. 44S:6:570m00000l :of:MP7W55. ::=:Fina :Quantity19. 0m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2347	A7wAFj M,W090,900m68	MP7W027	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 5m00000l :of:M4S7. :6:5m00000l :of:M4SS4:6:5m00000l :of:M4SSW6:5m00000l :of:M. 993:6:5m00000l :of:M. 920:6:5m00000l :
of:M. 9S3:6:50m00000l :of:M4SSS:6:50m00000l :of:M. 539:6:50m00000l :of:M. . 33:6:9m00000l :of:M. 053:6:9m00000l :of:
M. 090:6:9m0000l :of:M. 472:6:4m00000l :of:M4SS5:6:4m00000l :of:M. 2S7:6:4m00000l :of:M. 905:6:4m00000l :of:M. 93S:6:
. m00000l :of:M. W0W6:. 0m00000l :of:M. 205:6:S97m00000l :of:+ 9W0W6:3m00000l :of:M4S35:6:3m00000l :of:M. 5S4:6:
3m00000l :of:M. . 95:6:3m00000l :of:M. 532:6:3m00000l :of:M. 900:6:3m00000l :of:M. 4WS::=:Fina :Quantity15000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
234S	AWWAFj M,W090,900m68	MP7W02S	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:4Sm0000I :of:+ 9W0W6:. 0m00000I :of:MP7W027::=:Fina :Quantity1500m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2343	A. wAFj M,W090,900m68	MP7W023	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:72m0000I :of:+ 9W0W6:9. m00000I :of:MP7W027::=:Fina :Quantity1500m000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 4	A4wAFj M,W090,900m68	MP7W940	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:SW00000I :of:+ 9W0W6:59m0000I :of:MP7W927::=:Fina :Quantity1500m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 5	A2wAFj M,:W090,900m68	MP7W945	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:SSm0000I :of:+ 9W0W6:50m00000I :of:MP7W92S::=:Fina :Quantity1500m000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. .	A9C) s CwAFj M,W090,900n68	MP7W949	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM

0n0. 000I :of:M47WS:6:0n0. 000I :of:M4S9. :6:0n0. 000I :of:M4S74:6:0n0. 000I :of:M4S7W6:0n0. 000I :of:M4S77:6:0n0. 000I :
of:M4SS5:6:0n0. 000I :of:M4SS. :6:0n0. 000I :of:M4SS3:6:0n0. 000I :of:M. 5S4:6:0n0. 000I :of:M. 993:6:0n0. 000I :of:M. 920:6:
0n0. 000I :of:M. 4W3:6:0n50000I :of:M4W 7:6:0n50000I :of:M4S35:6:0n50000I :of:M. 994:6:0n50000I :of:M. 9S3:6:0n50000I :
of:M. . 95:6:0n9. 000I :of:M4SS2:6:0n9. 000I :of:M4SSW6:0n9. 000I :of:M4SSS:6:0n9. 000I :of:M. 539:6:0n9. 000I :of:M. 997:6:
0n9. 000I :of:M. 93S:6:0m0000I :of:M4SS4:6:0m0000I :of:M. 2S7:6:5n9. 000I :of:M4S7. :6:5n9. 000I :of:M4SS0:6:5n9. 000I :
of:M4SS9:6:9m0000I :of:M. 532:6:9m0000I :of:M. 900:6:9m0000I :of:M. 905:6:9m0000I :of:M. 4WS:6:9m0000I :of:M. W0W6:
99. n5. 000I :of:+ 9W0W6:. n00000I :of:M. . 33::=:Fina :Quantity19. 0n000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. W	A9wAFj M,W090,900n68	MP7W942	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM

0m0000I :of:M. W0W6:5n00000I :of:M. . 33:6:3Sn00000I :of:+ 9W0W6:0m0000I :of:MP7W949::=:Fina :Quantity1500n000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 7	A5wAFj M,W090,900m68	MP7W044	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5m00000l :of:M. . 33:6:SSm0000l :of:+ 9W0W6:50m00000l :of:MP7W042::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W5	CCV	MP7W04.	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM 0m0000l :of:M4S7. :6:0m0000l :of:M4SS4:6:0m0000l :of:M4SSW6:0m0000l :of:M. 053:6:0m0000l :of:M. 993:6:0m0000l : of:M. 920:6:5m00000l :of:M. 090:6:50m00000l :of:M. . 33:6:59m4. 000l :of:M. 93S:6:59m0000l :of:M. 4W3:6:9m00000l :of: M4SS5:6:94m3. 000l :of:M. 532:6:94m3. 000l :of:M. 900:6:94m3. 000l :of:M. 905:6:94m3. 000l :of:M. 4WS:6:9. m00000l :of: M. 205:6:4m0000l :of:M4S35:6:4m0000l :of:M. 5S4:6:4m0000l :of:M. . 95:6:4m3. 000l :of:M. 9S3:6:. m00000l :of:M. 539:6: . m00000l :of:M. W0W6:S0. m60000l :of:+ 9W0W:=:Fina :Quantity15000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W4	C) s CrnCAA:APbJ B	MP7W047	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	MBKj LA(PbP BKKB(2:vj 8	Nin:Hc 07/59/9092

FROM

0rn. 000l :of:M47WS:6:0rn. 000l :of:M4S9. :6:0rn. 000l :of:M4S74:6:0rn. 000l :of:M4S7W6:0rn. 000l :of:M4S77:6:0rn. 000l :
of:M4SS5:6:0rn. 000l :of:M4SS. :6:0rn. 000l :of:M4SS3:6:0rn. 000l :of:M. 5S4:6:0rn. 000l :of:M. 993:6:0rn. 000l :of:M. 920:6:
0rn. 000l :of:M. 472:6:0m0000l :of:M4W 7:6:0m0000l :of:M. 994:6:0m0000l :of:M. 9S3:6:0m0000l :of:M. . 95:6:5rn. 000l :
of:M4707:6:5rn. 000l :of:M4SS2:6:5rn. 000l :of:M4SSW6:5rn. 000l :of:M4SSS:6:5rn. 000l :of:M4S35:6:5rn. 000l :of:M. 539:6:
59m0000l :of:M. 532:6:59m0000l :of:M. 900:6:59m0000l :of:M. 905:6:59m0000l :of:M. 4WS:6:5. 5rn. 000l :of:+ 9W0W6:
9m0000l :of:M4SS4:6:9m0000l :of:M. 2S7:6:9m0000l :of:M. W0W6:. rn00000l :of:M. 93S:6:. rn00000l :of:M. . 33:6:Wn. 000l :
of:M4S7. :6:Wn. 000l :of:M4SS0:6:Wn. 000l :of:M4SS9::=:Fina :Quantity 19. 0rn000::l

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	P2-MEB683701	08/21/2023	09/25/2020 / jaswal	08/27/2019 / BIN	M4408

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	P2-V685591	12/05/2023	11/21/2020 / bin	08/21/2020 / bin	M4707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Manganese, Mn, 500 ml, 1000 PPM	070620	07/06/2023	01/14/2021 / bin	01/12/2021 / bin	M4718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Boron (B)	031921	03/19/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	S2-MEB701384	01/20/2025	03/14/2022 / bin	03/14/2022 / bin	M5101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5229

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	073021	07/30/2024	05/08/2023 / jaswal	07/05/2022 / bin	M5230

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	R2-MEB695520	11/26/2023	11/27/2022 / jaswal	07/06/2022 / jaswal	M5231

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	05/01/2022 / jaswal	04/01/2022 / jaswal	M5301

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	S2-MEB709511	03/06/2024	03/07/2023 / jaswal	04/01/2022 / jaswal	M5448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	09/07/2023	03/26/2023 / Al-Terek	02/24/2022 / Al-Terek	M5452

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	11/26/2023	05/24/2023 / Al-Terek	02/24/2022 / Al-Terek	M5555

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/09/2023	06/09/2023 / Al-Terek	01/13/2023 / Al-Terek	M5575

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	S2-MEB701384
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.01 ± 0.26 µg/mL**	**Chromium, Cr**	**200.0 ± 1.0 µg/mL**
Cobalt, Co	**500.0 ± 2.3 µg/mL**	**Copper, Cu**	**250.2 ± 1.0 µg/mL**
Iron, Fe	**1 000 ± 4 µg/mL**	**Manganese, Mn**	**500.2 ± 2.0 µg/mL**
Nickel, Ni	**500.1 ± 2.3 µg/mL**	**Silver, Ag**	**50.01 ± 0.22 µg/mL**
Vanadium, V	**500.0 ± 2.2 µg/mL**	**Zinc, Zn**	**500.1 ± 2.1 µg/mL**

Density: 1.069 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 20, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	P2-MEB683701
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**100.0 ± 0.7 µg/mL**	**Arsenic, As**	**40.00 ± 0.21 µg/mL**
Cadmium, Cd	**49.98 ± 0.22 µg/mL**	**Lead, Pb**	**20.00 ± 0.09 µg/mL**
Selenium, Se	**10.00 ± 0.06 µg/mL**	**Thallium, Tl**	**50.02 ± 0.26 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 21, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 21, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
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(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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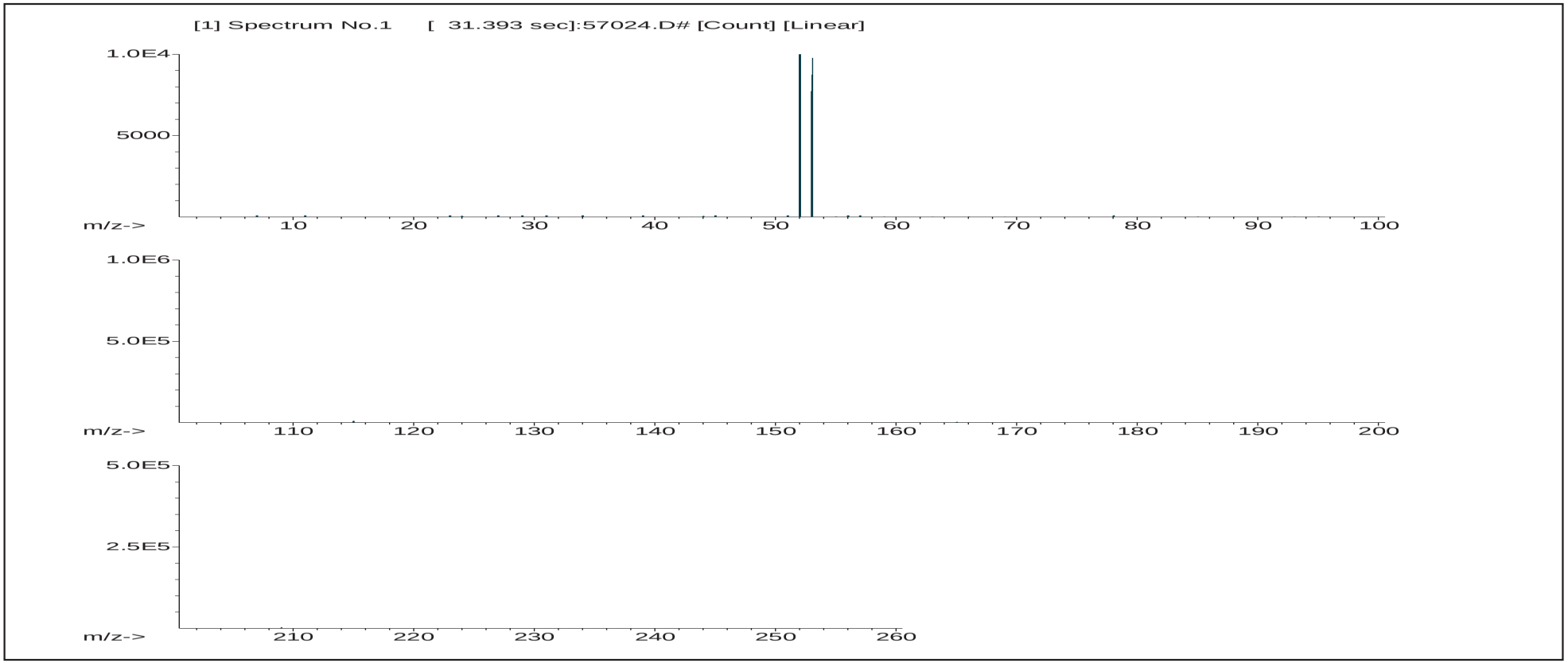
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58024**	19410105	Nitric Acid
Lot Number:	**082620**		
Description:	**Chromium (Cr)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	082623		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

775

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Chromium (III) nitrate nonahydrate (Cr)	58124	121619	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



776

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFICATE OF ANALYSIS

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fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	P2-V685591
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9939%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **1002 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000273	M	Eu	<	0.000118	O	Na		0.010915	M	Se	<	0.001167	M	Zn	<	0.006080
M	Al		0.006218	M	Fe		0.023106	M	Nb	<	0.001479	O	Si		0.036363	M	Zr	<	0.003181
M	As	<	0.000540	M	Ga	<	0.009451	M	Nd	<	0.000118	M	Sm	<	0.000118				
M	Au	<	0.000191	M	Gd	<	0.000118	M	Ni	<	0.003169	M	Sn	<	0.000733				
M	B	<	0.002950	M	Ge	<	0.000434	M	Os	<	0.000150	M	Sr		0.000060				
M	Ba	<	0.001024	M	Hf	<	0.000118	O	P	<	0.056000	M	Ta	<	0.000118				
M	Be	<	0.000118	M	Hg	<	0.000170	M	Pb		0.000241	M	Tb	<	0.000118				
M	Bi	<	0.000363	M	Ho	<	0.000118	M	Pd	<	0.000140	M	Te	<	0.002236				
O	Ca		0.011869	M	In	<	0.000118	M	Pr	<	0.000118	M	Th	<	0.000118				
M	Cd	<	0.000145	M	Ir	<	0.000118	M	Pt	<	0.000118	M	Ti		0.001386				
M	Ce	<	0.000245	M	K		0.002082	M	Rb	<	0.000118	M	Tl	<	0.000118				
M	Co	<	0.000119	M	La	<	0.000118	M	Re	<	0.000118	M	Tm	<	0.000118				
O	Cr		0.017206	M	Li	<	0.000501	M	Rh	<	0.000118	M	U	<	0.000395				
M	Cs		0.000477	M	Lu	<	0.000118	M	Ru	<	0.000118	s	V	<					
M	Cu	<	0.002021	M	Mg		0.000612	n	S	<		M	W		0.000174				
M	Dy	<	0.000118	M	Mn		0.000649	M	Sb		0.008706	M	Y	<	0.000118				
M	Er	<	0.000118	O	Mo		0.007182	M	Sc	<	0.000118	M	Yb	<	0.000118				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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M4718 R: 01/12/21 (RA)

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781

CERTIFIED WEIGHT REPORT:

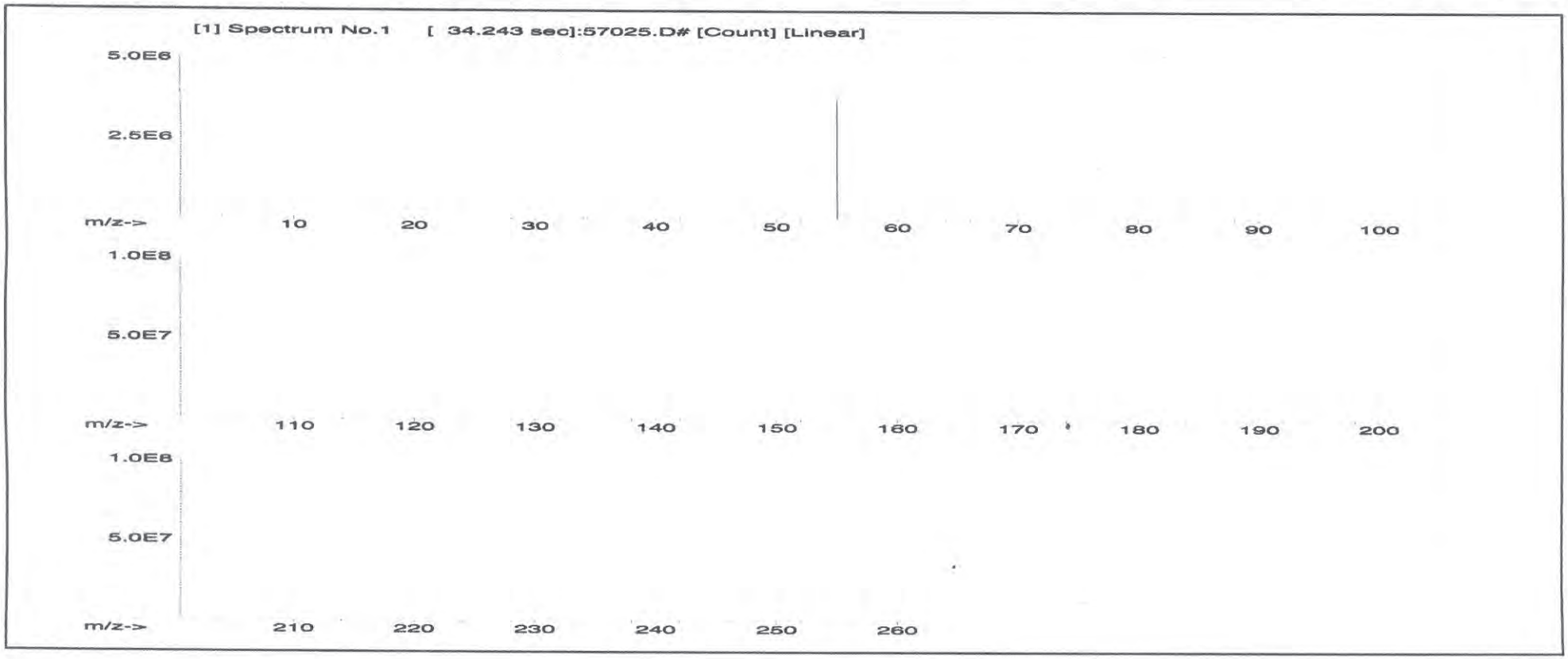
		Lot #	Solvent:
Part Number:	**58025**	19410105	Nitric Acid
Lot Number:	**070620**		
Description:	**Manganese (Mn)**		

2.0%	40.0 (mL)	Nitric Acid	

Formulated By:	Lawrence Barry	070620
Reviewed By:	Pedro L. Rentas	070620

Expiration Date: 070623
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.61 0.153 Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese (II) nitrate tetrahydrate (Mn)	58125	010720	0.1000	199.9	0.084	1000	10000.7	**1000.0**	**2.2**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



782

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M4768 R: 10/28/2020 (BH)

Certified Reference Material CRM

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783

CERTIFIED WEIGHT REPORT:

Part Number: **57028**
Lot Number: **072420**
Description: **Nickel (Ni)**

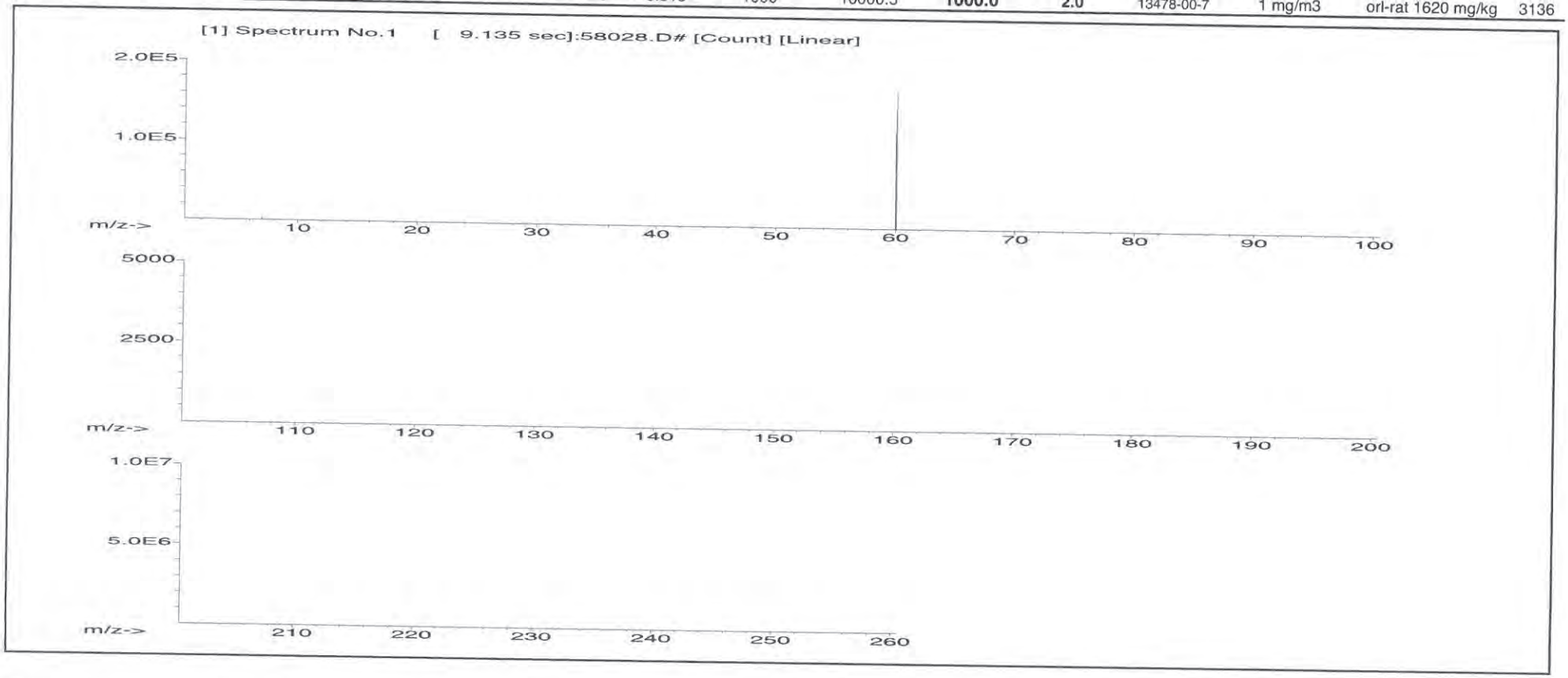
Expiration Date: 072423
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060
Volume shown below was diluted to (mL): 2000.02

	Lot #	**Solvent:**	
	19410105	Nitric Acid	
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 072420
Reviewed By: Pedro L. Rentas 072420

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel (II) nitrate Hexahydrate (Ni)	58128	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



784

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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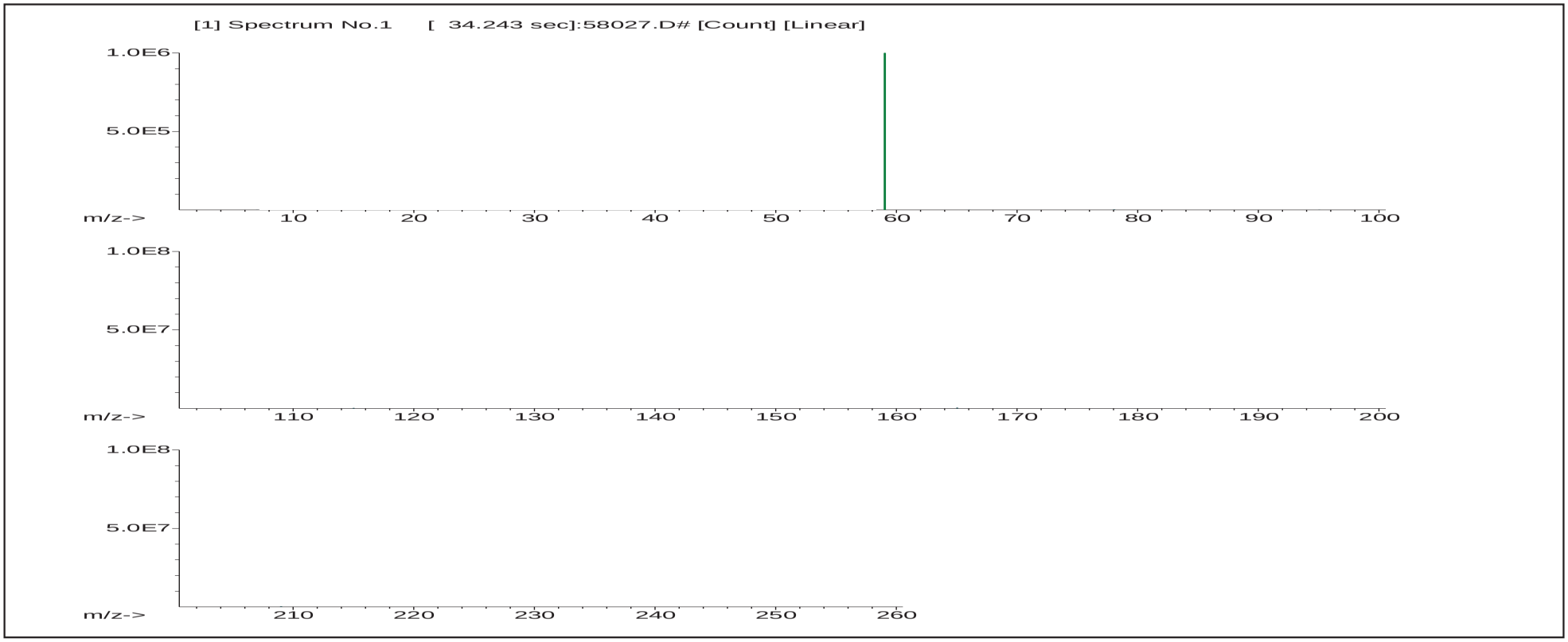
785

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57027**	19410105	Nitric Acid
Lot Number:	**020821**		
Description:	**Cobalt (Co)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	020824		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty

Formulated By:	Lawrence Barry	020821
Reviewed By:	Pedro L. Rentas	020821

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 mg/kg	3113



786

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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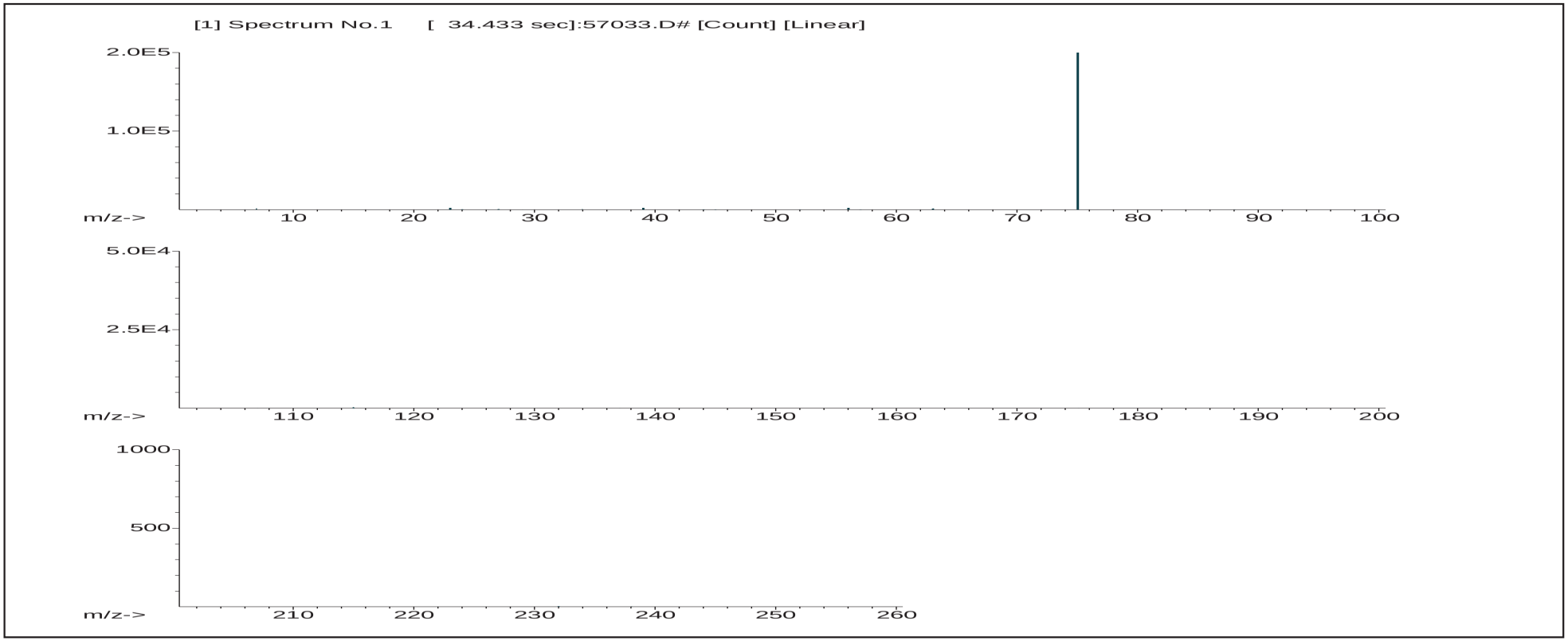
787

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57033**	19410105	Nitric Acid
Lot Number:	**012521**		
Description:	**Arsenic (As)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	012524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Arsenic (As)	58133	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



788

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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789

CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 031921
Description: Boron (B)

Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
2.0%	40.0 (mL)	Ammonium hydroxide	

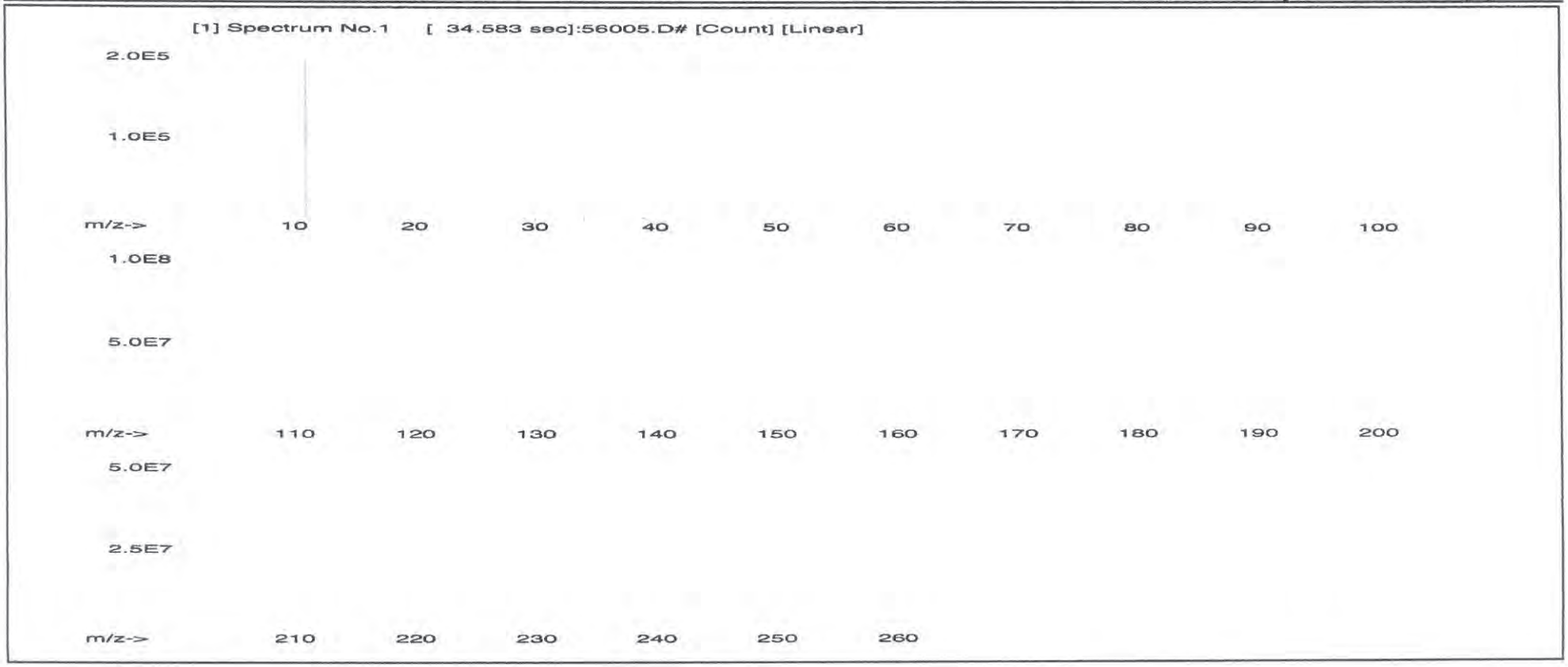
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



790

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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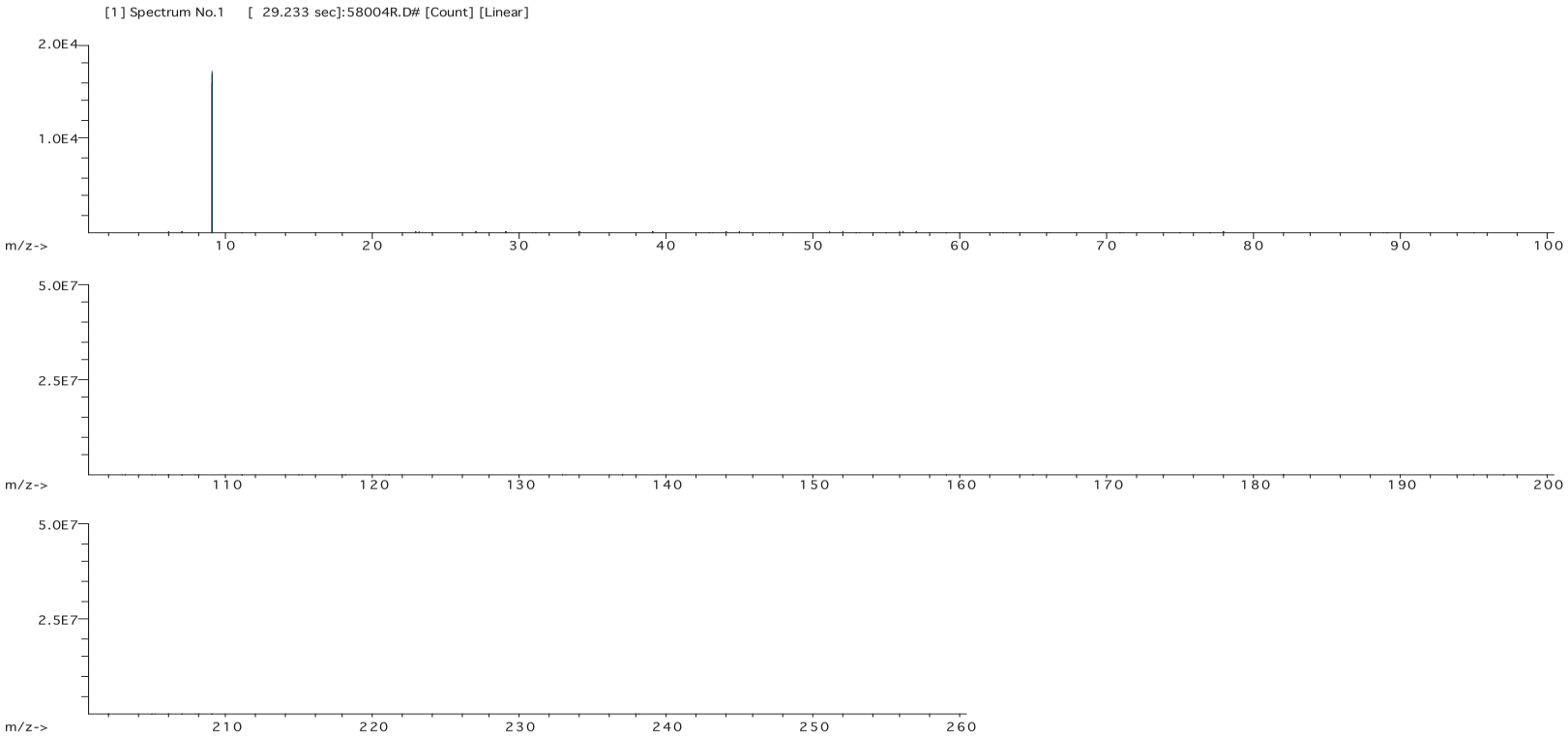
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57004**	19410105	Nitric Acid
Lot Number:	**030221**		
Description:	**Beryllium (Be)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	030224		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

791

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



792

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

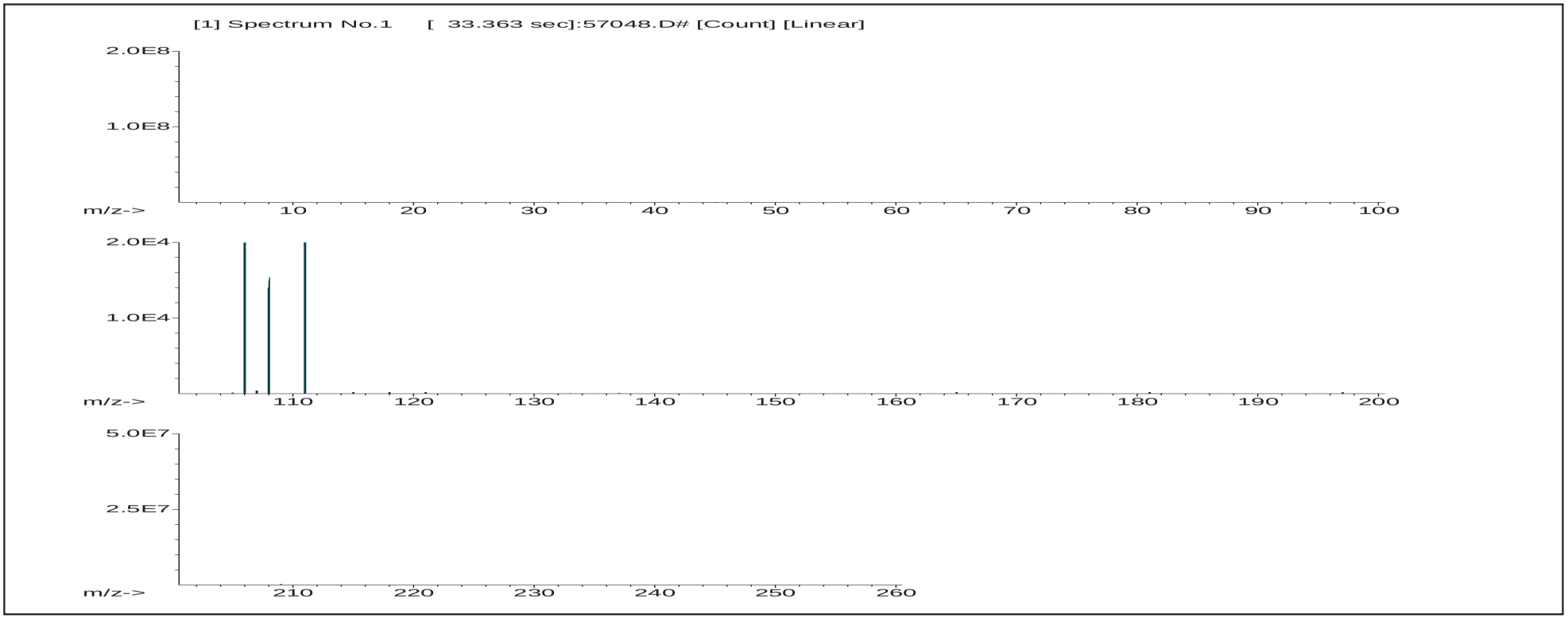
Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

793

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



794

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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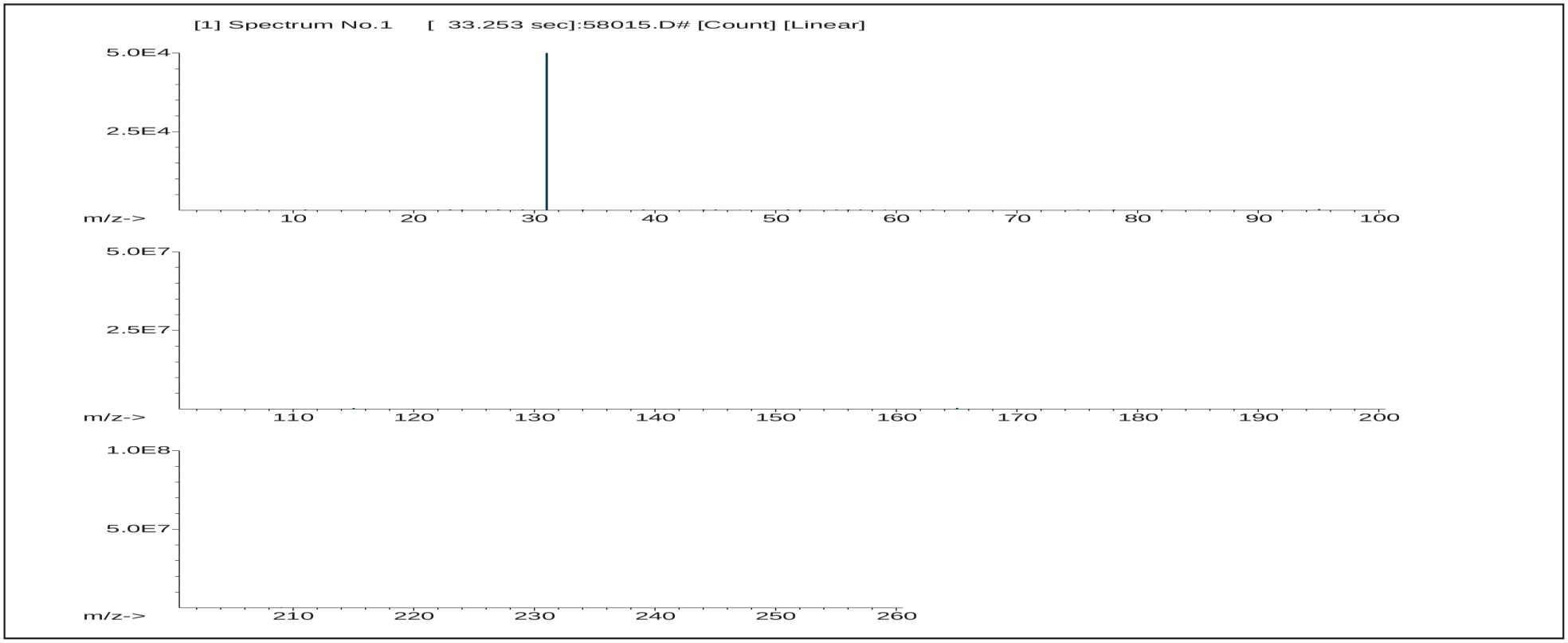
CERTIFIED WEIGHT REPORT:

795

		Lot #	Solvent:
Part Number:	**57015**	20370011	Nitric Acid
Lot Number:	**051121**		
Description:	**Phosphorous (P)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	051124		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	051121
Reviewed By:	Pedro L. Rentas	051121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



796

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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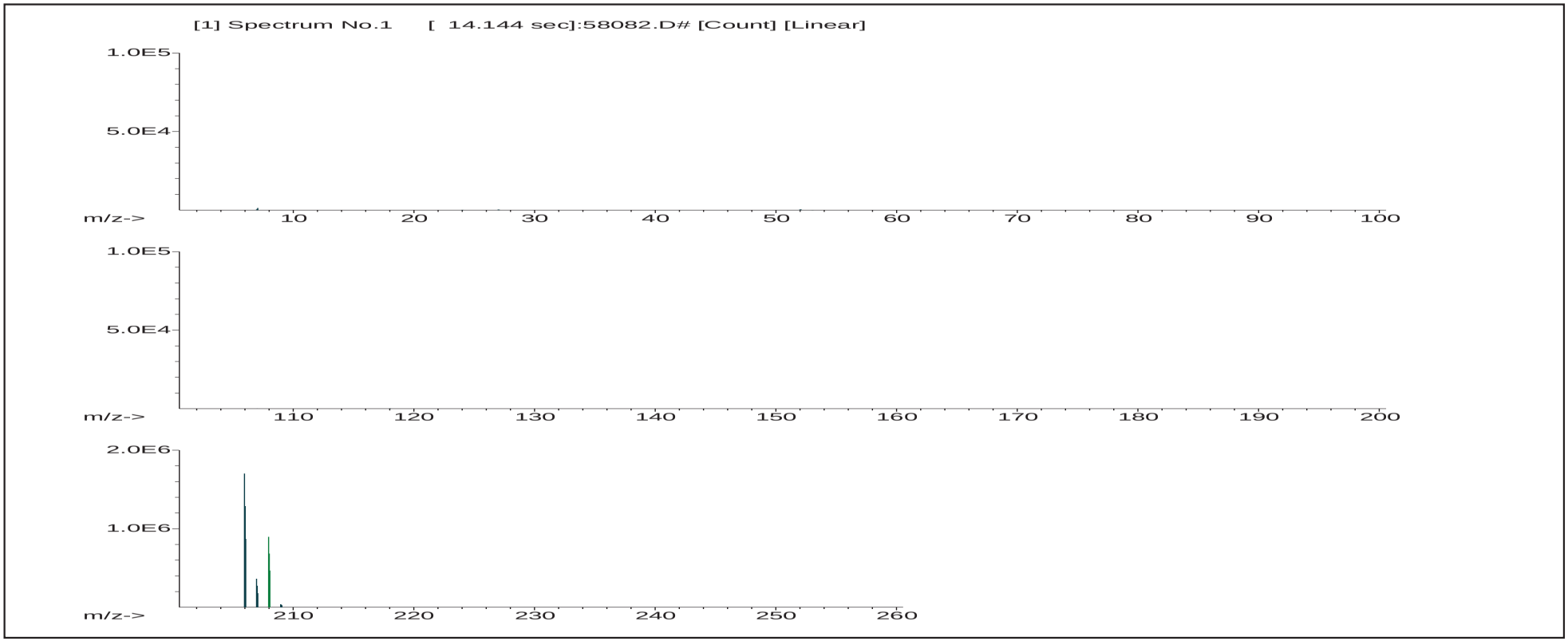
797

CERTIFIED WEIGHT REPORT:

				Lot #	**Solvent:**	
Part Number:	**57082**			20370011	Nitric Acid	
Lot Number:	**062221**					
Description:	**Lead (Pb)**					
				2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062224					
Recommended Storage:	Ambient (20 ºC)					
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	6UTB		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	062221
Reviewed By:	Pedro L. Rentas	062221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



798

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

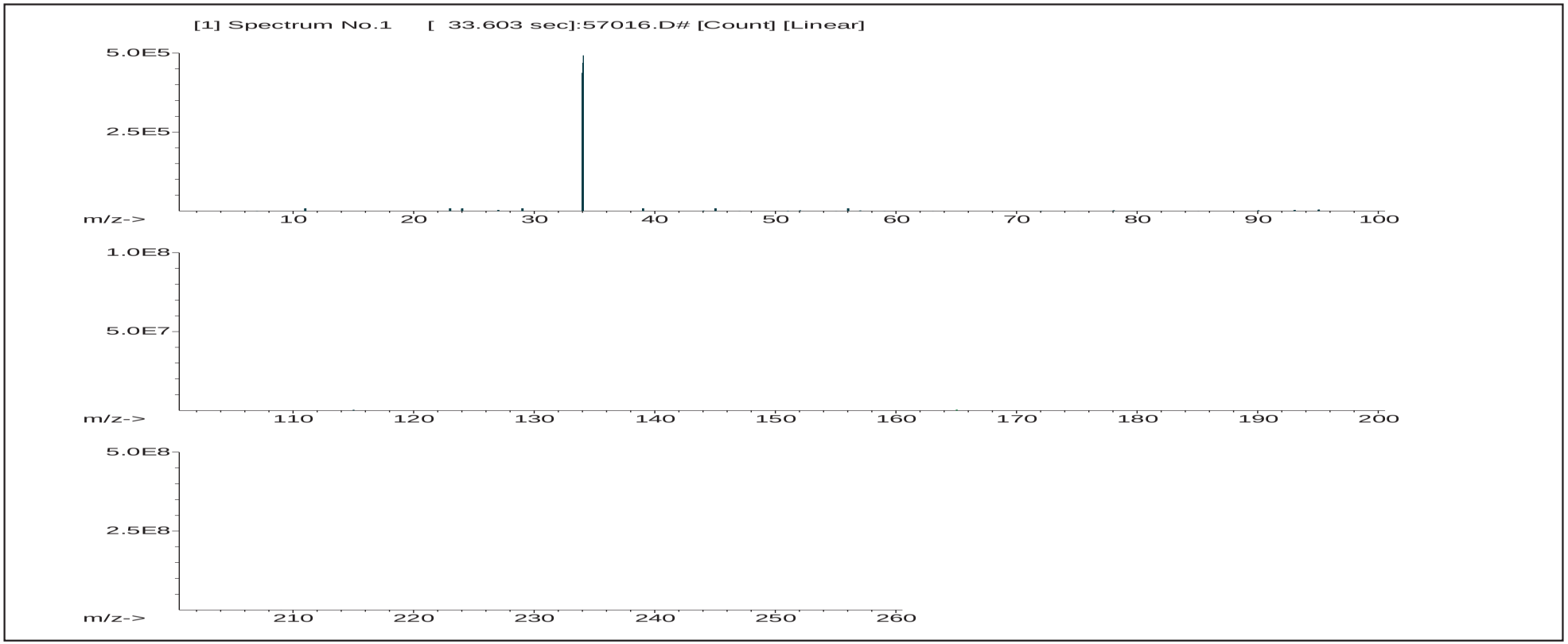
		Lot #	Solvent:
Part Number:	**57016**	051721	ASTM Type 1 Water
Lot Number:	**051721**		
Description:	**Sulfur (S)**		

Expiration Date: 051724
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

799

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



008

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

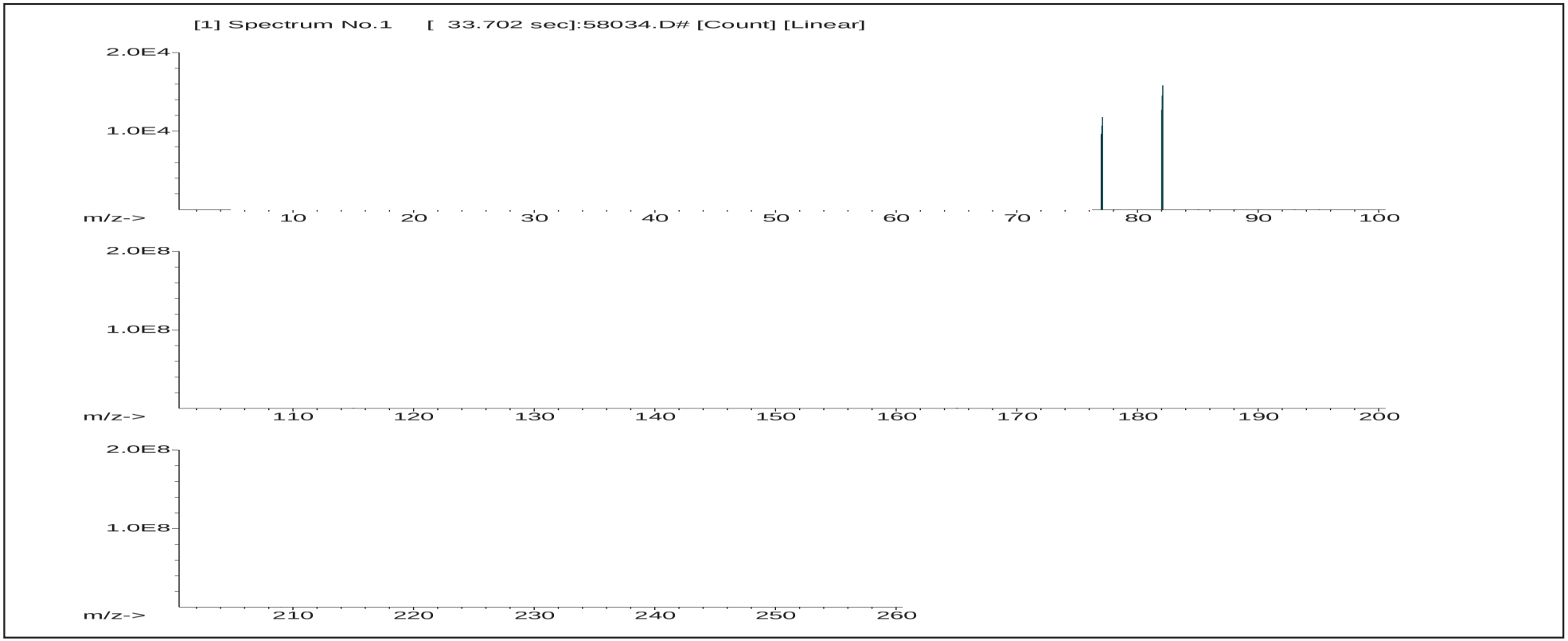
Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

801

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



802

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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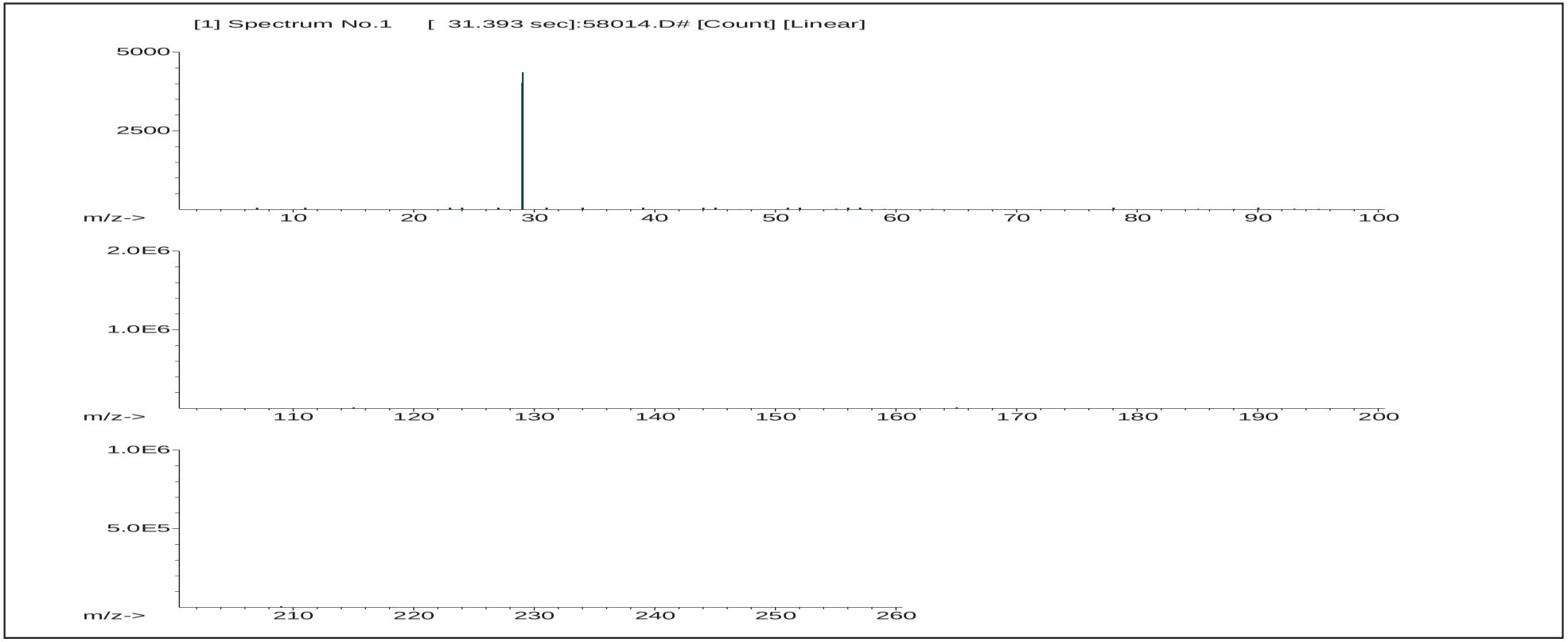
CERTIFIED WEIGHT REPORT:

803

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



804

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57047**	20370011	Nitric Acid
Lot Number:	**072921**		
Description:	**Silver (Ag)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	072924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Giovanni Esposito

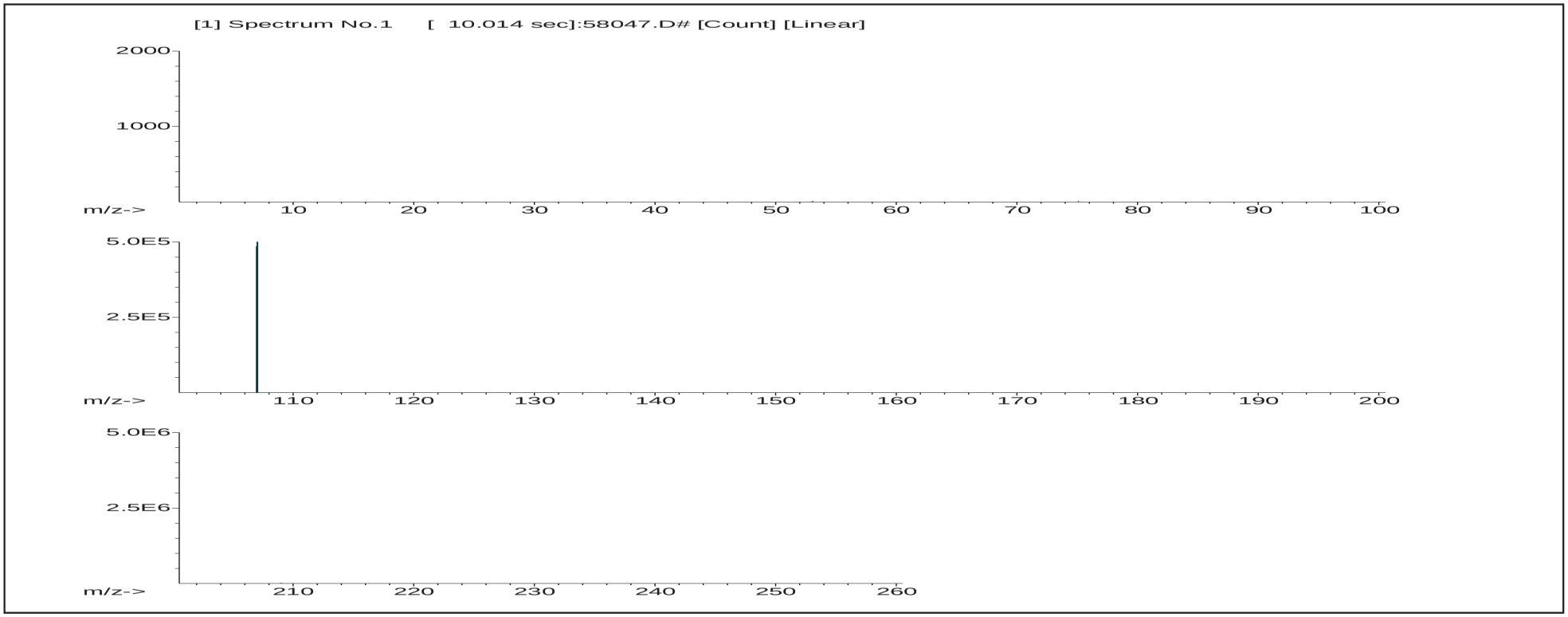
Formulated By:	Giovanni Esposito	072921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072921

805

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



806

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

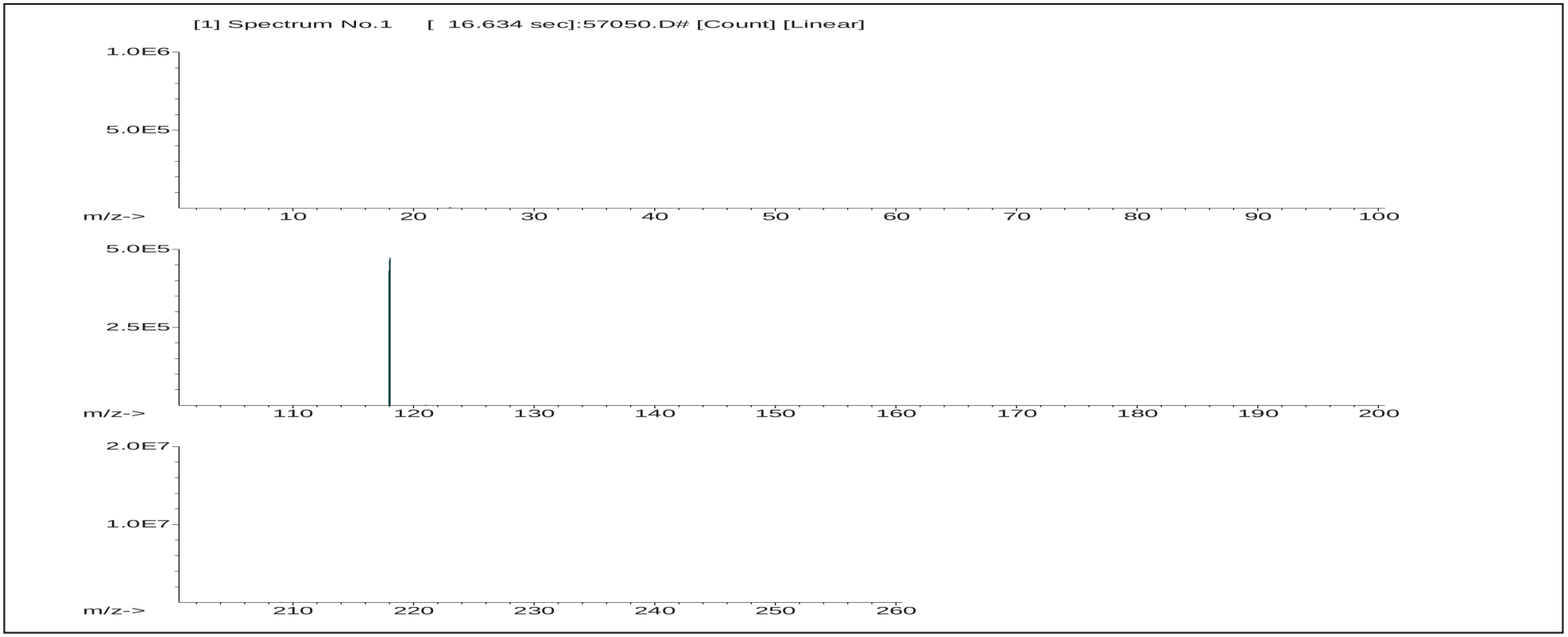
807

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57050**	19410105	Nitric Acid	
Lot Number:	**021121**	240241	Hydrochloric acid	
Description:	**Tin (Sn)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	021124	6.0%	120.0	Hydrochloric acid
Recommended Storage:	Ambient (20 ºC)		(mL)	
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty	

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



808

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

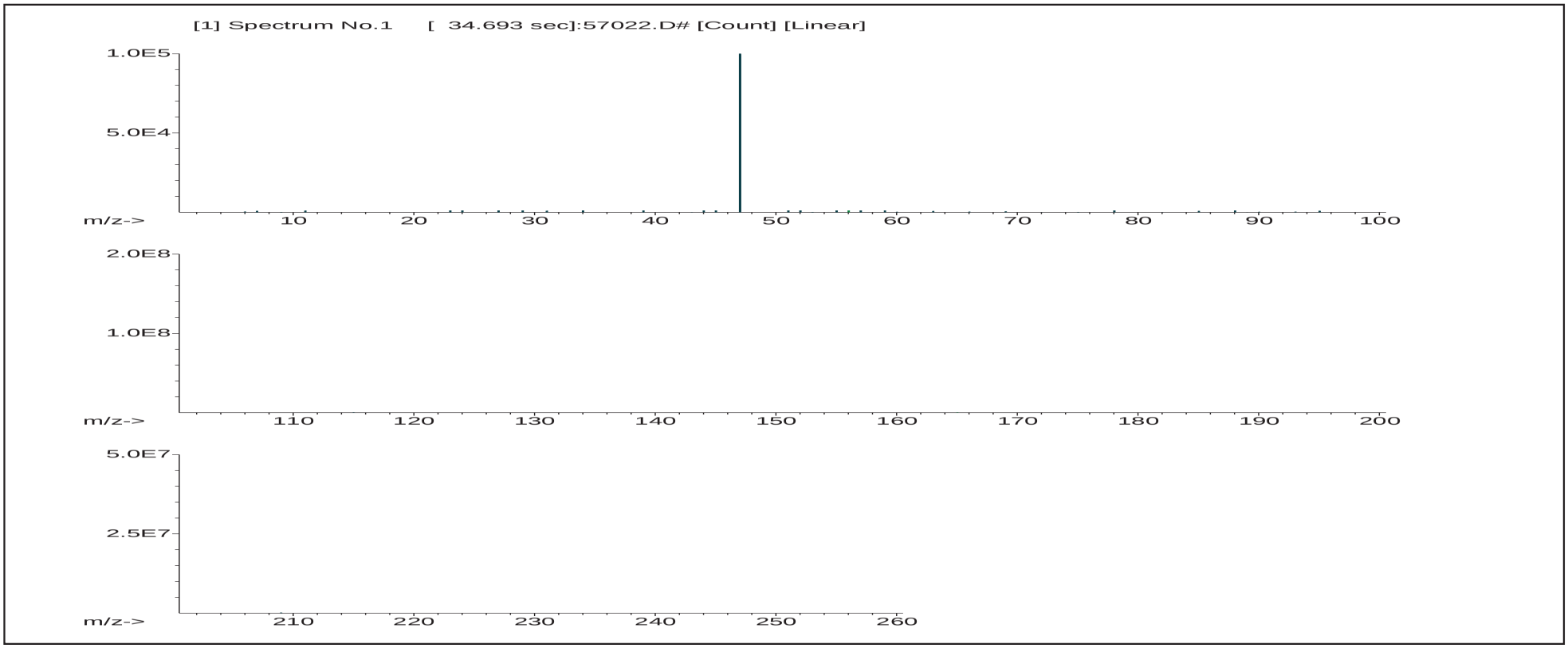
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57022**	20370011	Nitric Acid
Lot Number:	**070721**		
Description:	**Titanium (Ti)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	070724		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

808

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



810

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57081**	20370011	Nitric Acid	
Lot Number:	**073021**			
Description:	**Thallium (Tl)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	073024			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

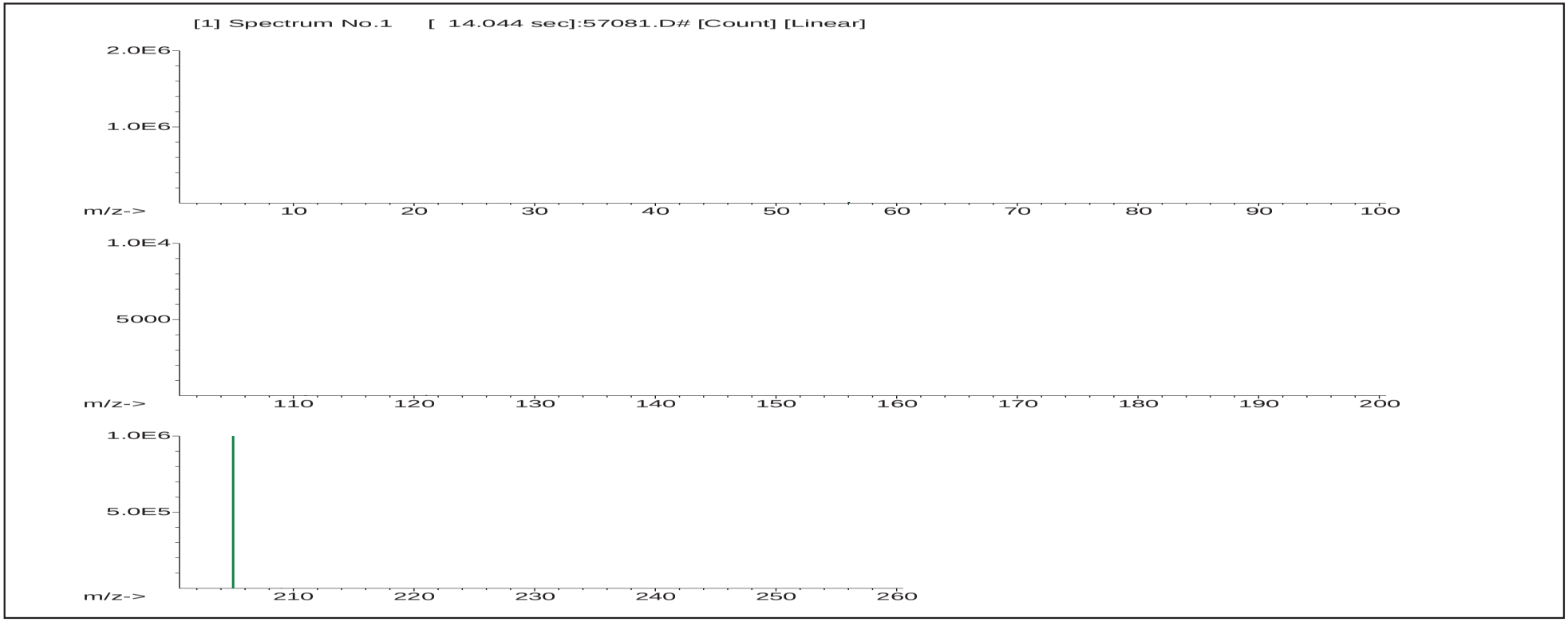
Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

811

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



812

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58030**	20370011	Nitric Acid
Lot Number:	**031921**		
Description:	**Zinc (Zn)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Giovanni Esposito

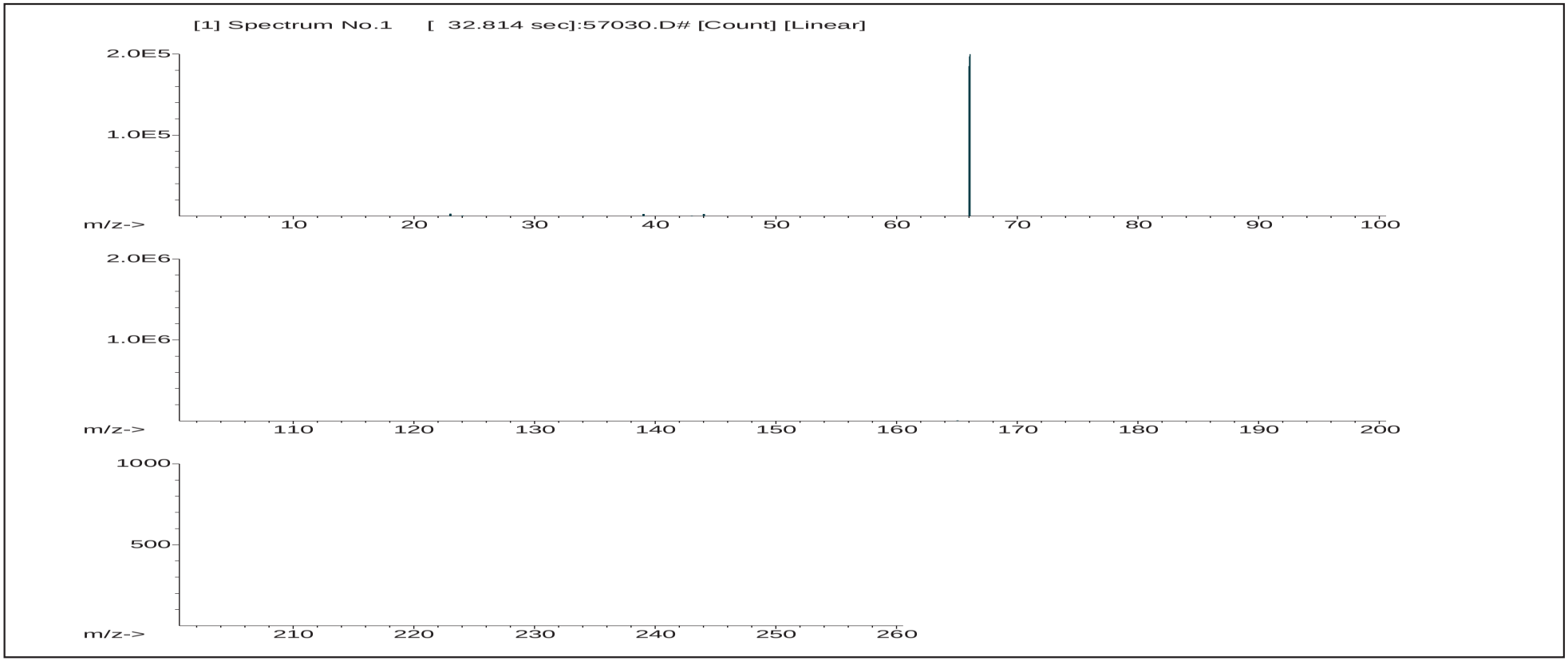
Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

813

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



814

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

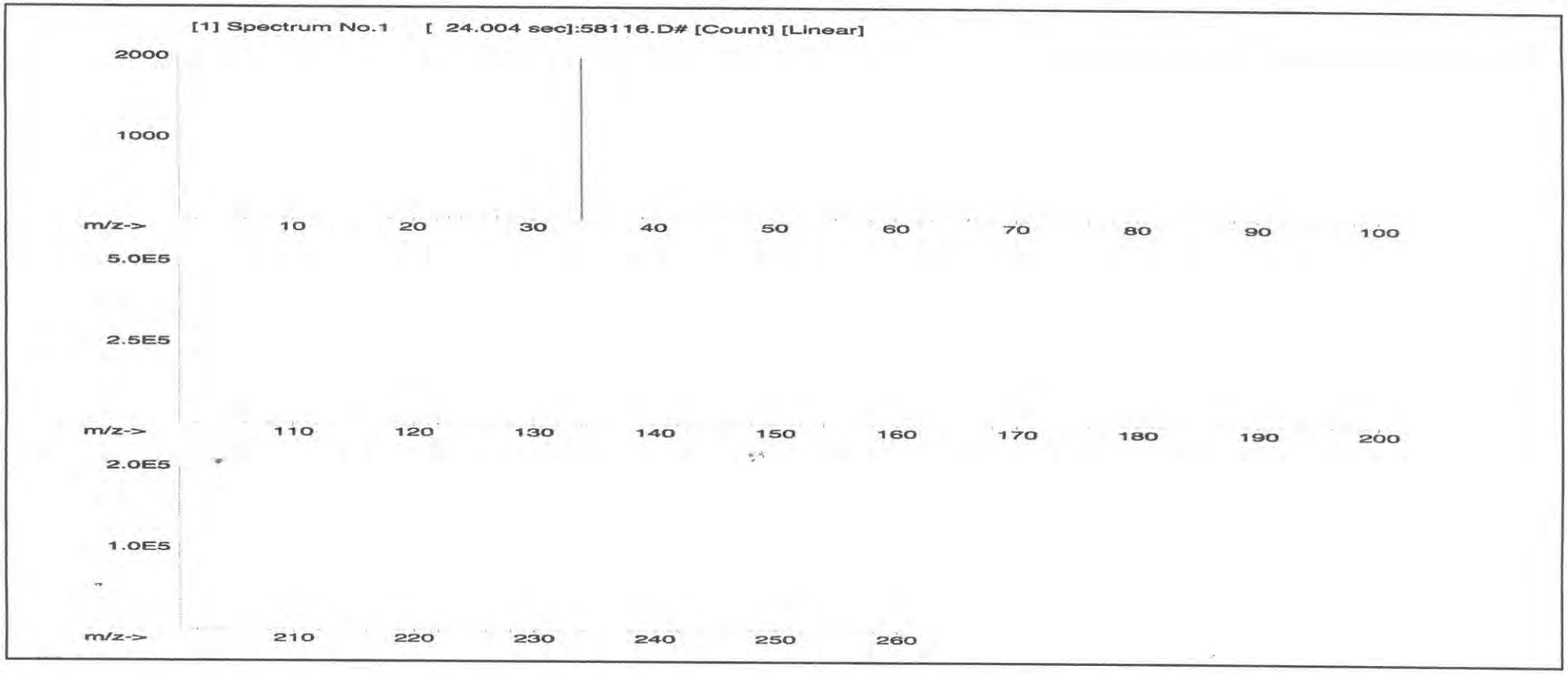
Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



815

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

816

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BA M5020 R: 12/09/21

817

CERTIFIED WEIGHT REPORT:

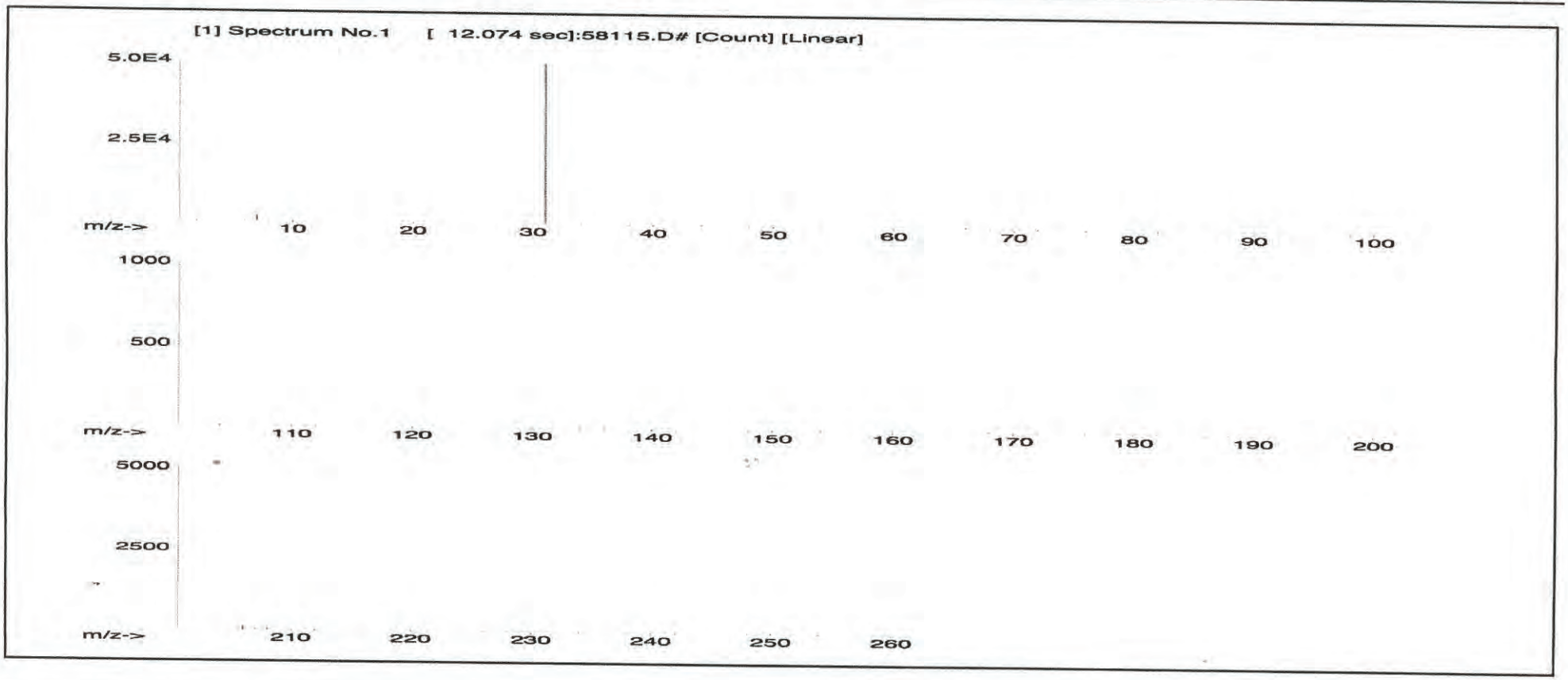
Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



818

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 6/2/22

819

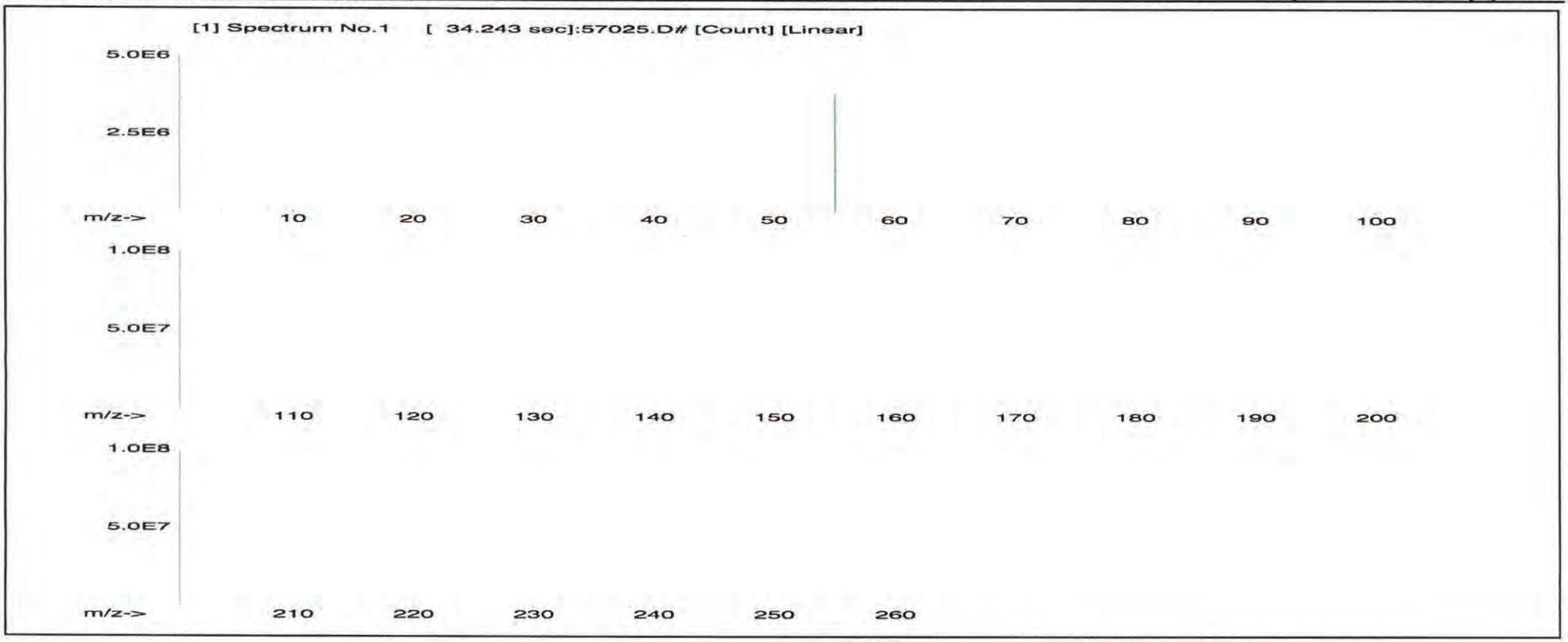
CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:
Part Number:	**58025**	20510011	Nitric Acid
Lot Number:	**060122**		
Description:	**Manganese (Mn)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	060125		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058 Flask Uncertainty	

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



820

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: **57042**
Lot Number: **051722**
Description: **Molybdenum (Mo)**

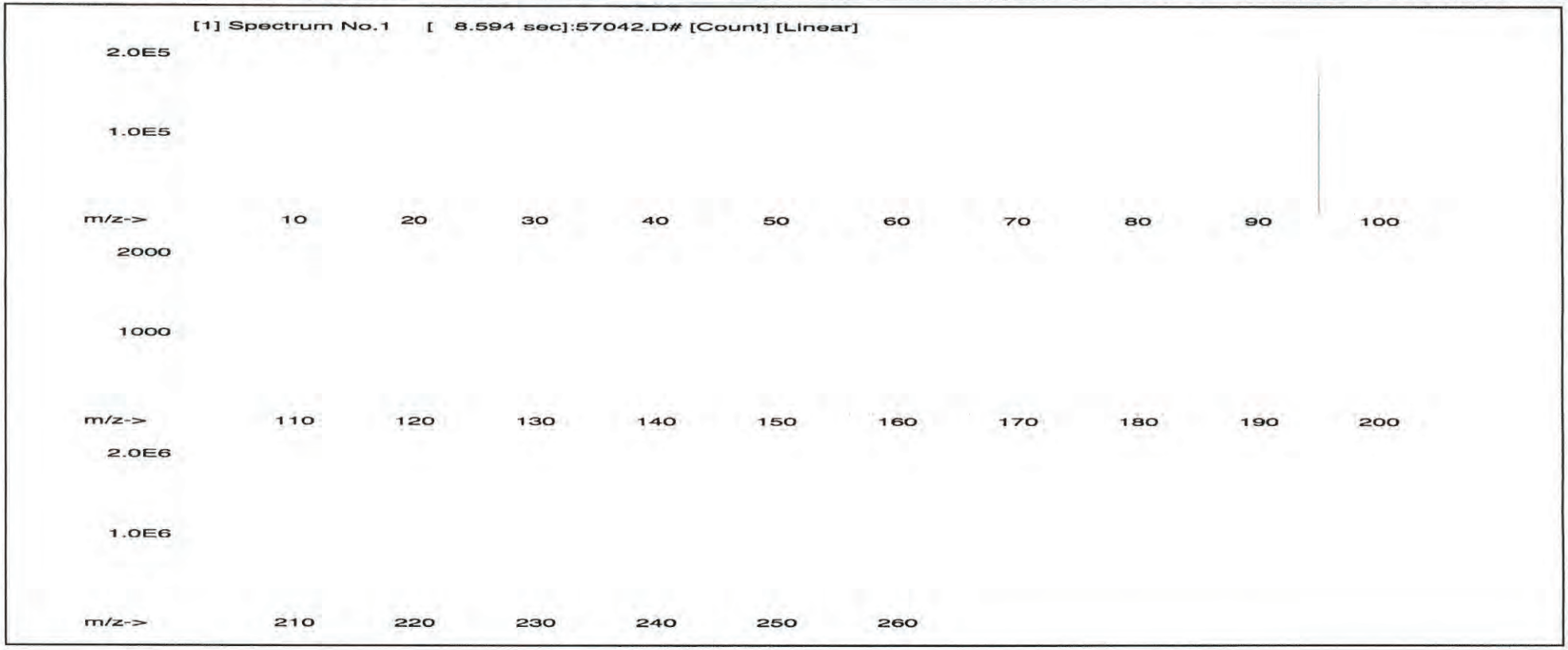
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

821

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



822

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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823

CERTIFIED WEIGHT REPORT:

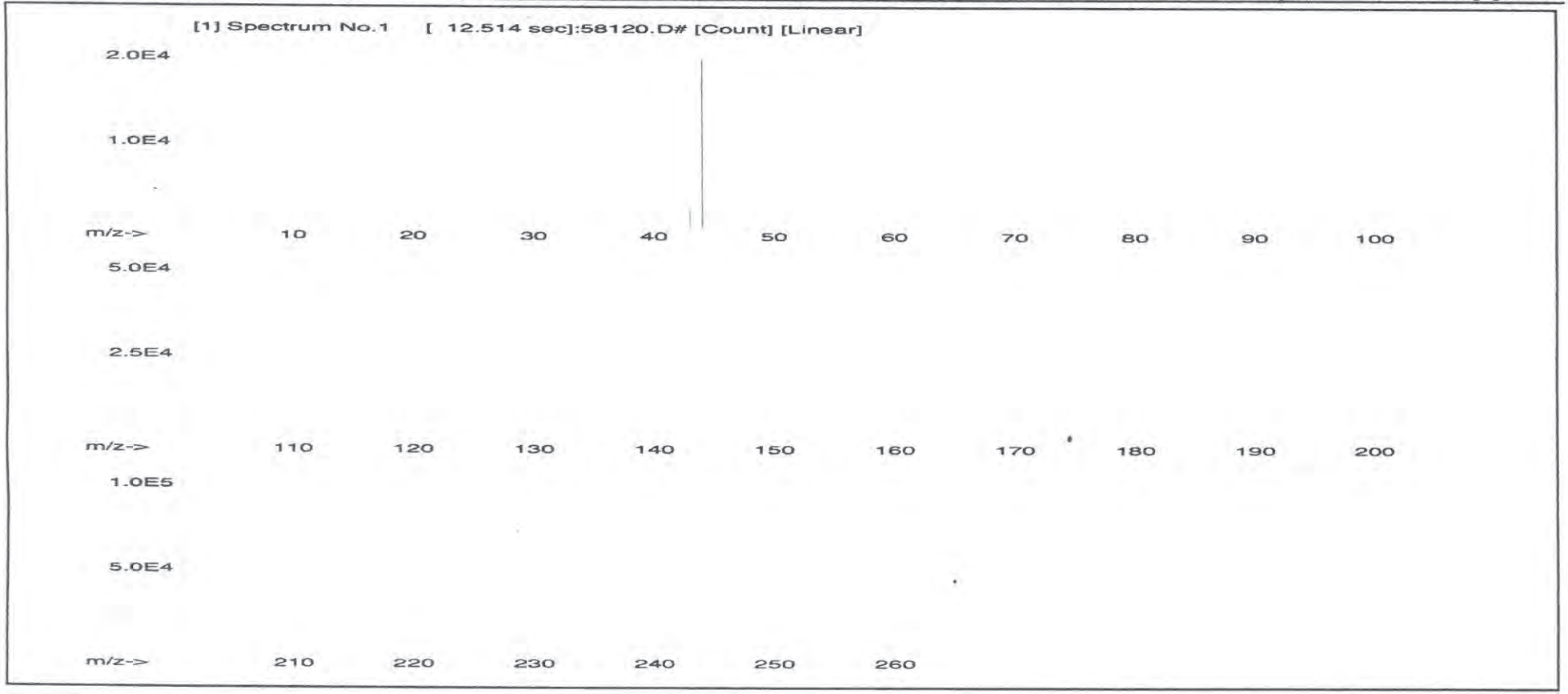
Part Number: 58120
Lot Number: 082021
Description: Calcium (Ca)
Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	082021
Reviewed By:	Pedro L. Rentas	082021

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

824

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825

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

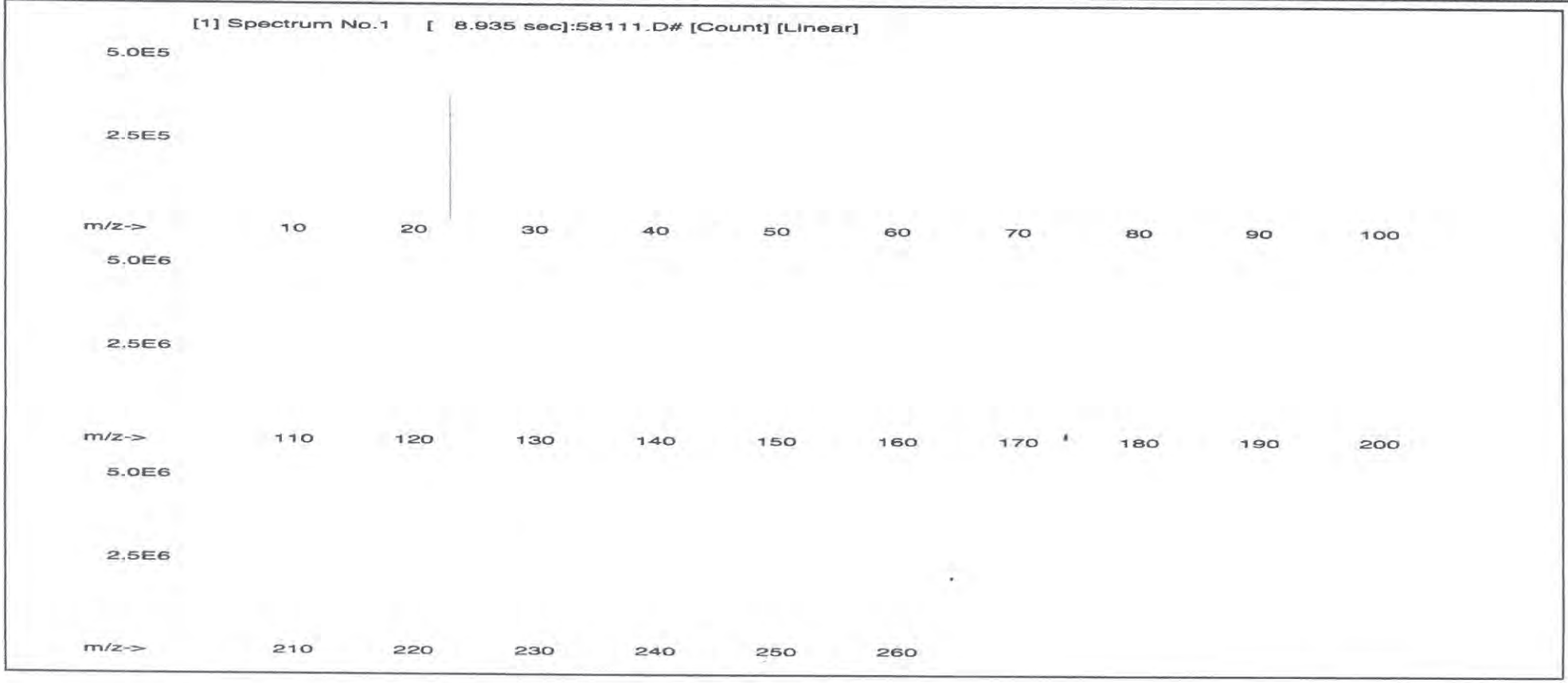
Giovanni Esposito

Formulated By:	Giovanni Esposito	092121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



826

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

Part Number: 57119
Lot Number: 062321
Description: Potassium (K)
Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

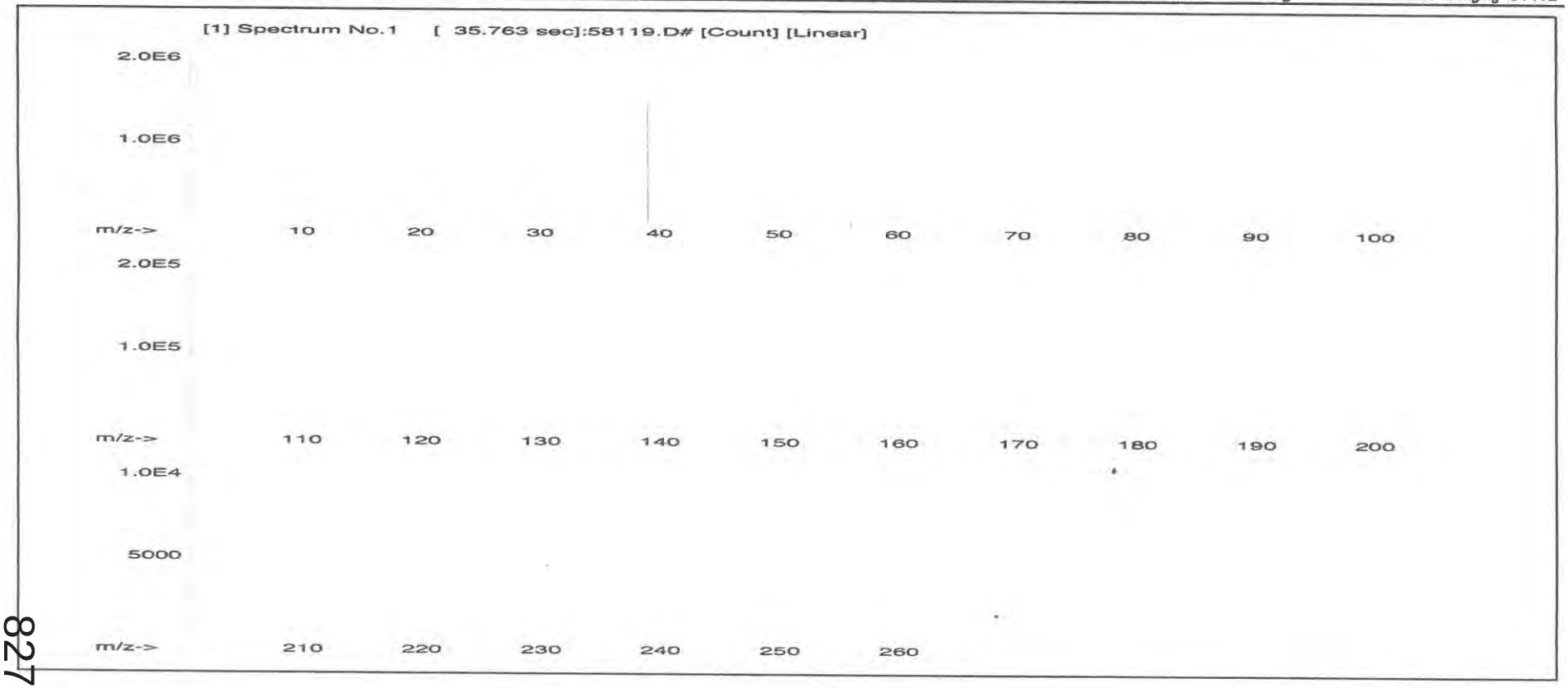
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



827

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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828

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57051**	20370011	Nitric Acid
Lot Number:	**101521**		
Description:	**Antimony (Sb)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	101524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty

Giovanni Esposito

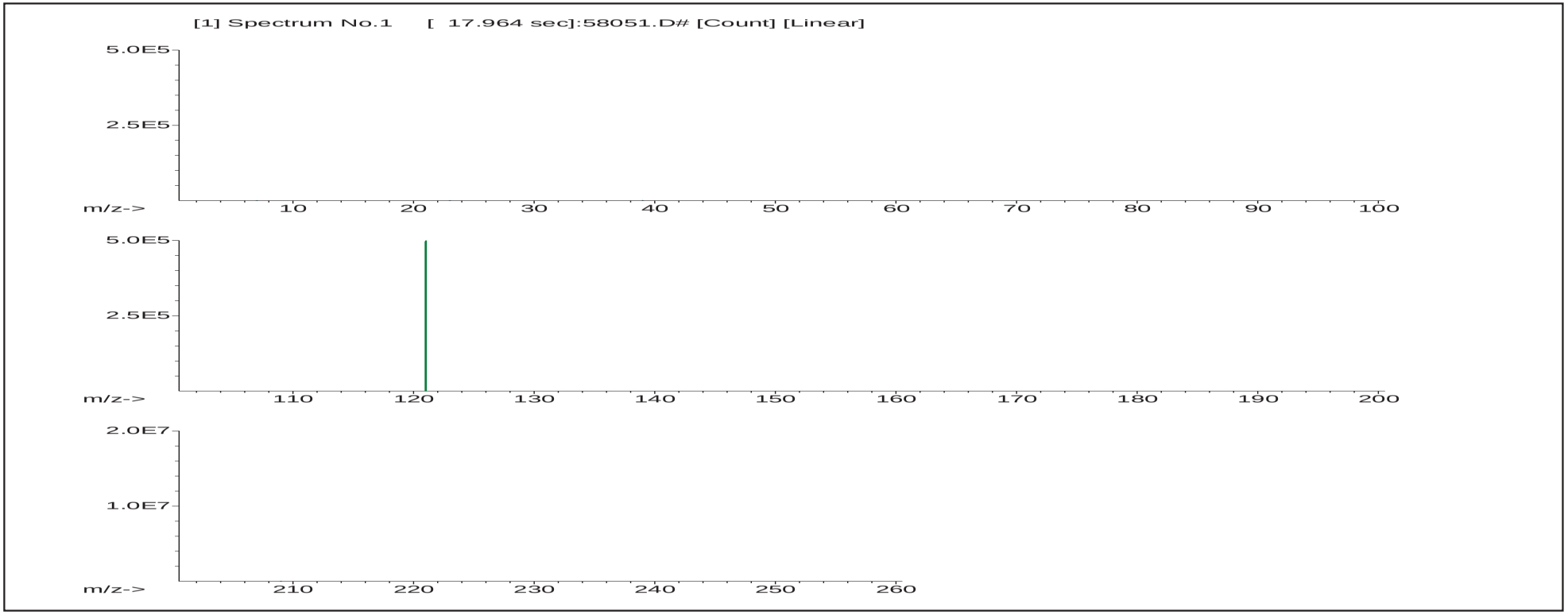
Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

829

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



830

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5227 R: 10/18/2021

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57023**	20370011	Nitric Acid
Lot Number:	**100121**		
Description:	**Vanadium (V)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	100124		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty

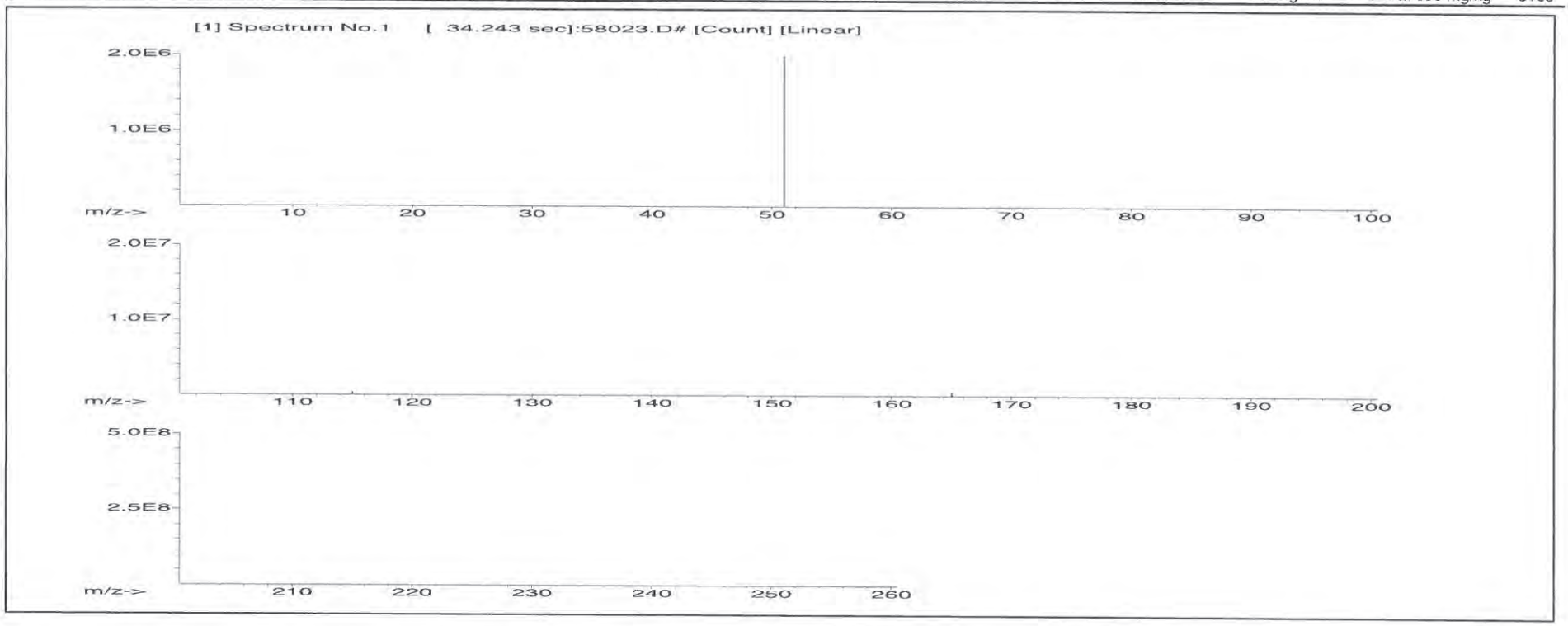
Giovanni Esposito

Formulated By:	Giovanni Esposito	100121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	100121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



831

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5229 R: 07/05/22 (BH)

Certified Reference Material CRM

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833

CERTIFIED WEIGHT REPORT:

Part Number: 57092
Lot Number: 073021
Description: Uranium (U)

Expiration Date: 073024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

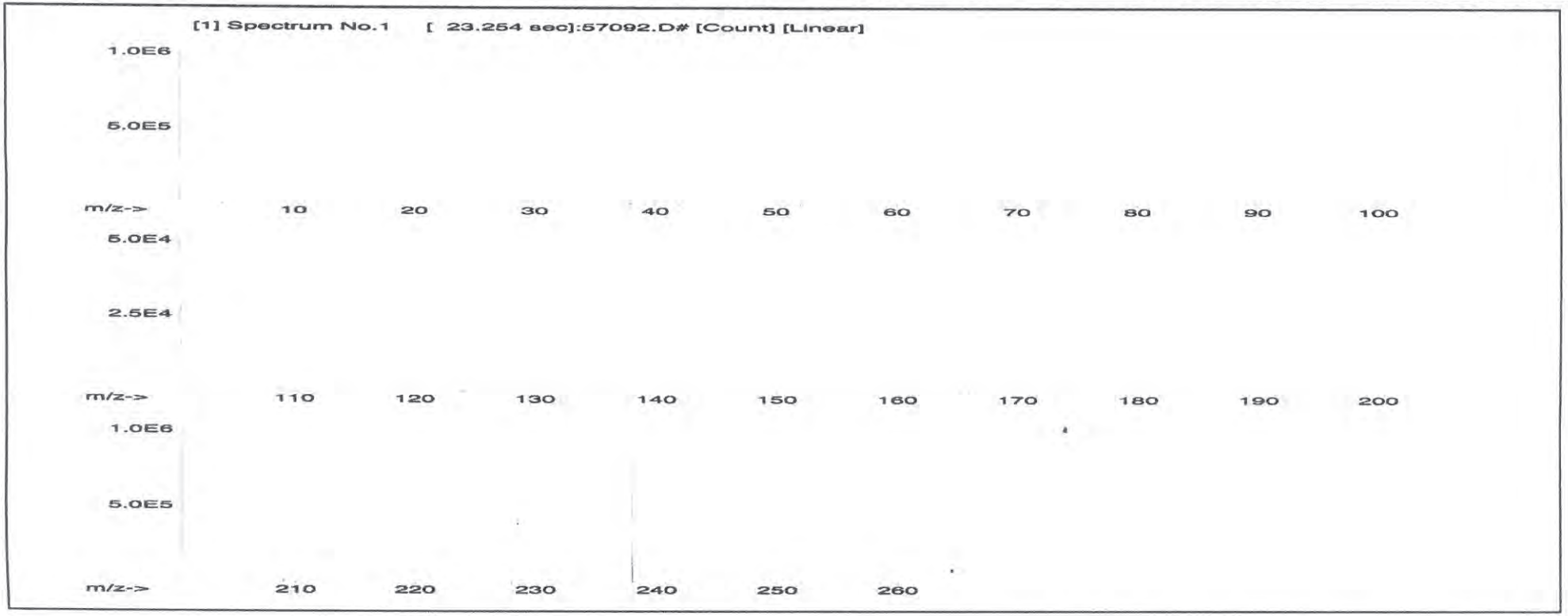
Lot #	Solvent:		
20370011	Nitric Acid		
2.0%	60.0 (mL)	Nitric Acid	

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Pedro Rentas

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	**2.1**	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



834

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (μg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5230 R 07/05/22 (BH)

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835

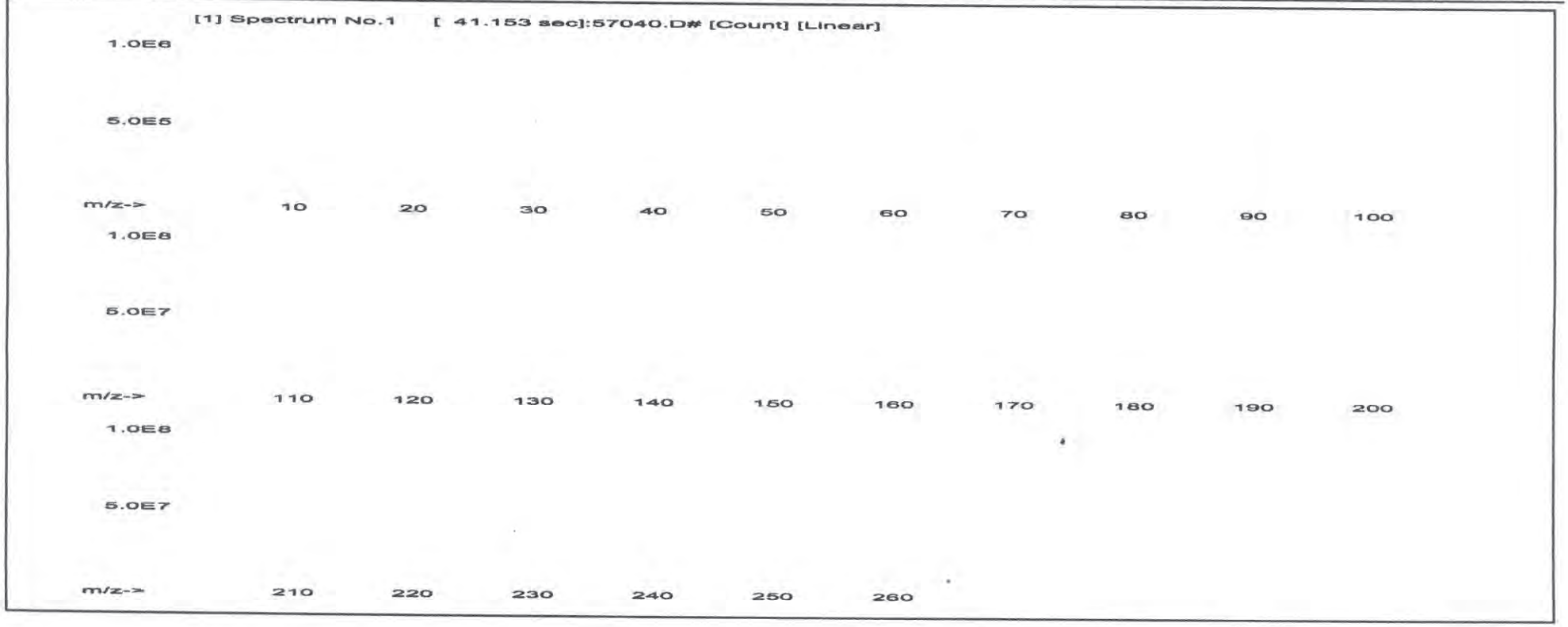
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57040**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Zirconium (Zr)**	2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	300.0	0.084	1000	10000.3	**1000.0**	**2.1**	13520-92-8	NA	NA	NA



836

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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INORGANIC VENTURES
306 Technology Drive
Christiansburg, VA 24073 USA
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CERTIFICATE OF ANALYSIS

R: 7/6/22 M5231

tel: 800.669.6799 / 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	R2-MEB695520
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium,	Beryllium,
Bismuth,	Cerium,
Cobalt,	Indium,
Lithium,	Nickel,
Lead,	Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.05 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.04 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.00 ± 0.04 µg/mL
Nickel, Ni	10.00 ± 0.04 µg/mL	Uranium, U	10.00 ± 0.05 µg/mL

Density: 1.023 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	991212
Bi	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 04, 2024

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Wednesday, Oct 14, 2020 by utruong. Revision was made for the following reason: Added missing isotopic abundance for Uranium..

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

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800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 (B4)

Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

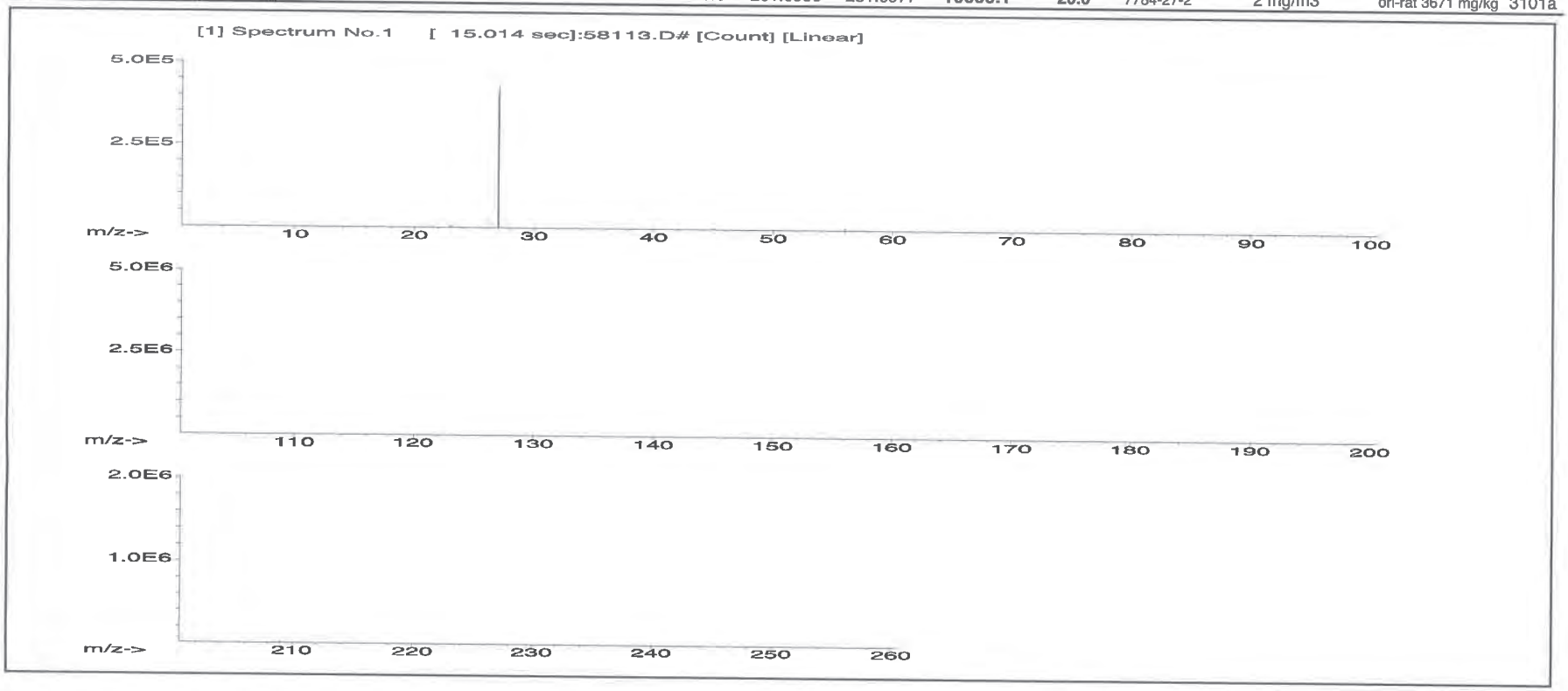
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #	
Solvent:	20370011	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Formulated By: Lawrence Barry 070622

Reviewed By: Pedro L. Rentas 070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



842

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58126**
Lot Number: **020422** M5298
Description: **Iron (Fe)**

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

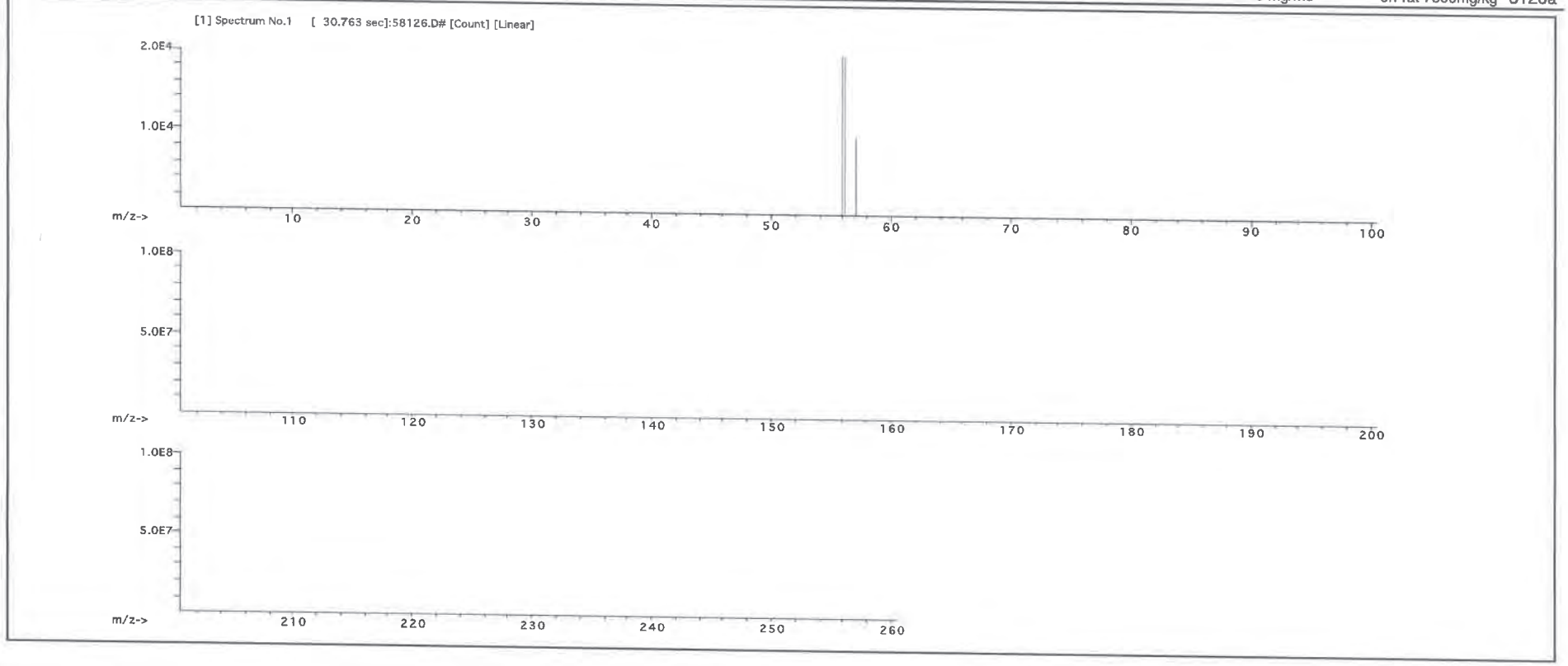
	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



845

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

846

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

851

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

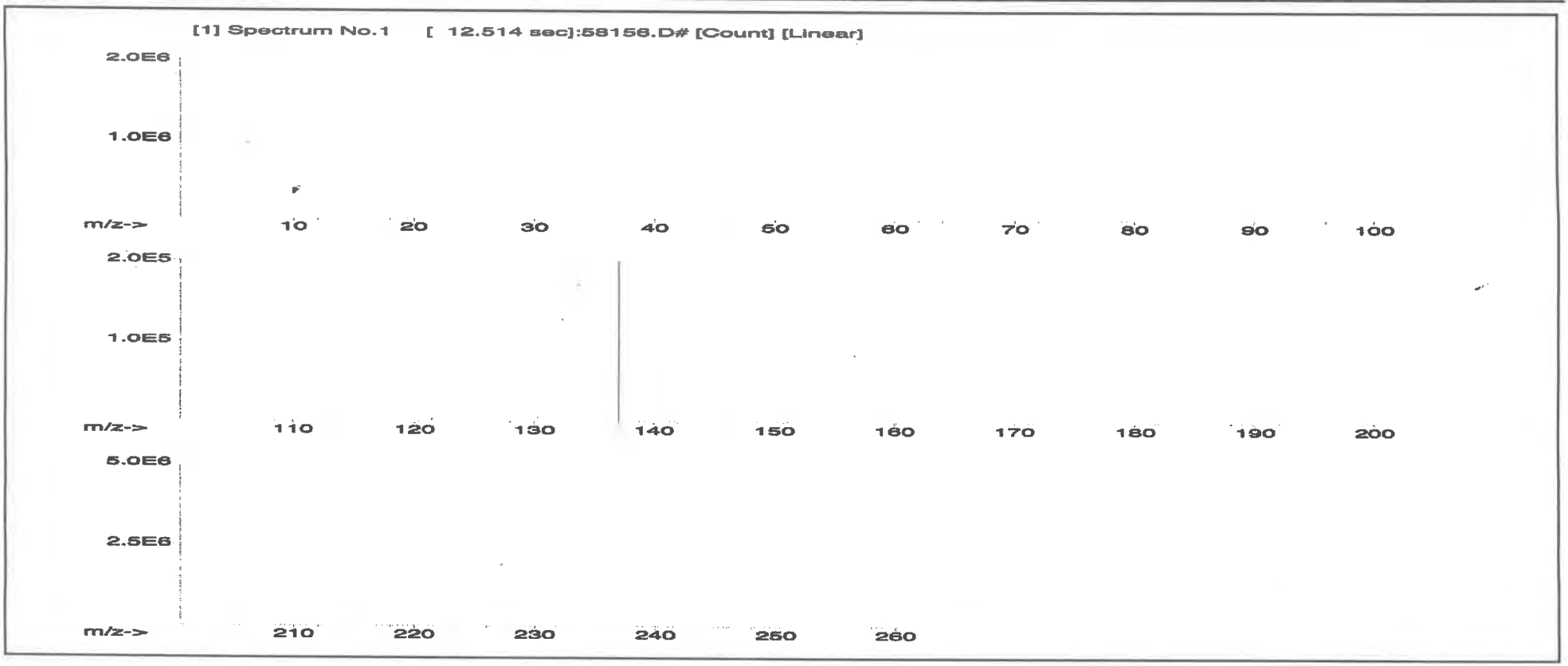
Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

	Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea: Bismuth, Indium, Rhodium, Terbium, Holmium, 6-Lithium, Scandium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael J. Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/14/23 M5468

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

860

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 120922
Description: Magnesium (Mg)

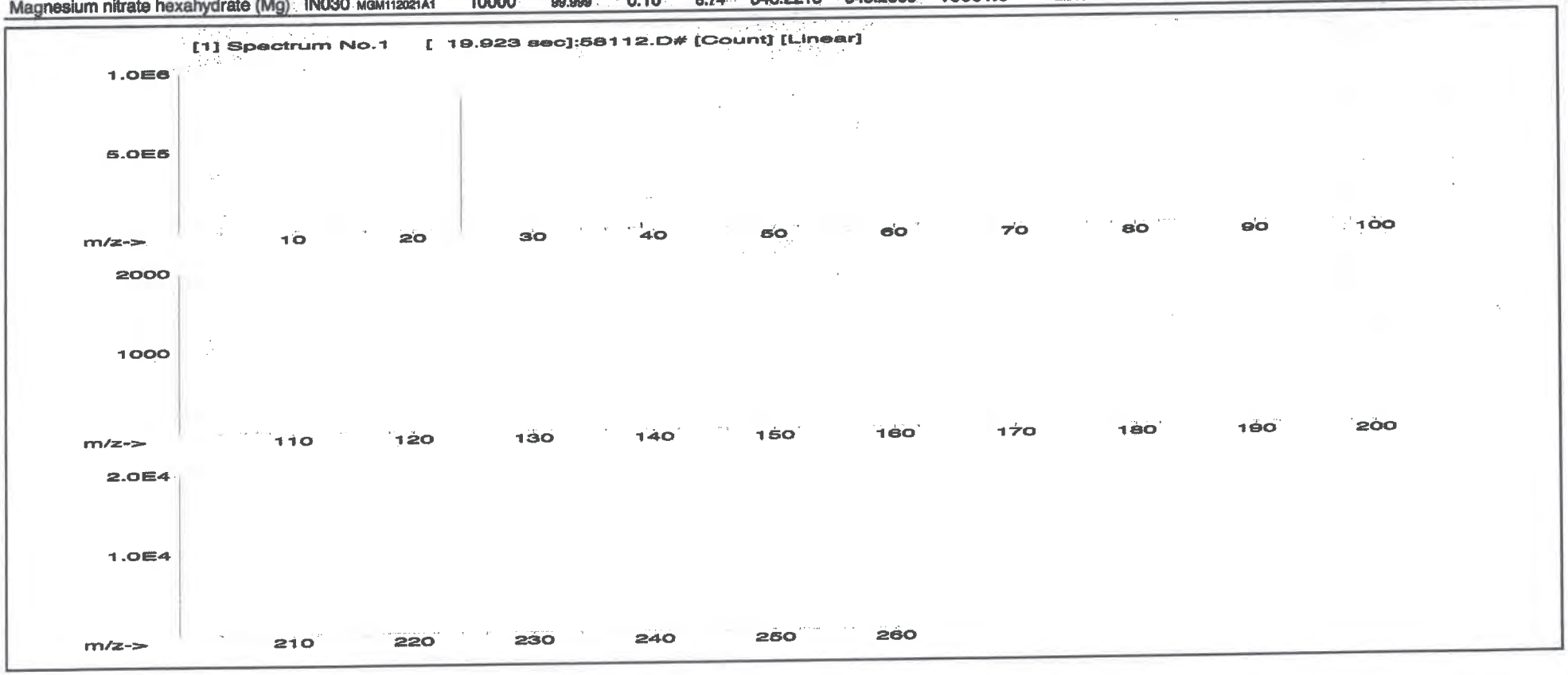
Expiration Date: 120925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

Giovanni Esposito

Formulated By:	Giovanni Esposito	120922
Reviewed By:	Pedro L. Rentas	120922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

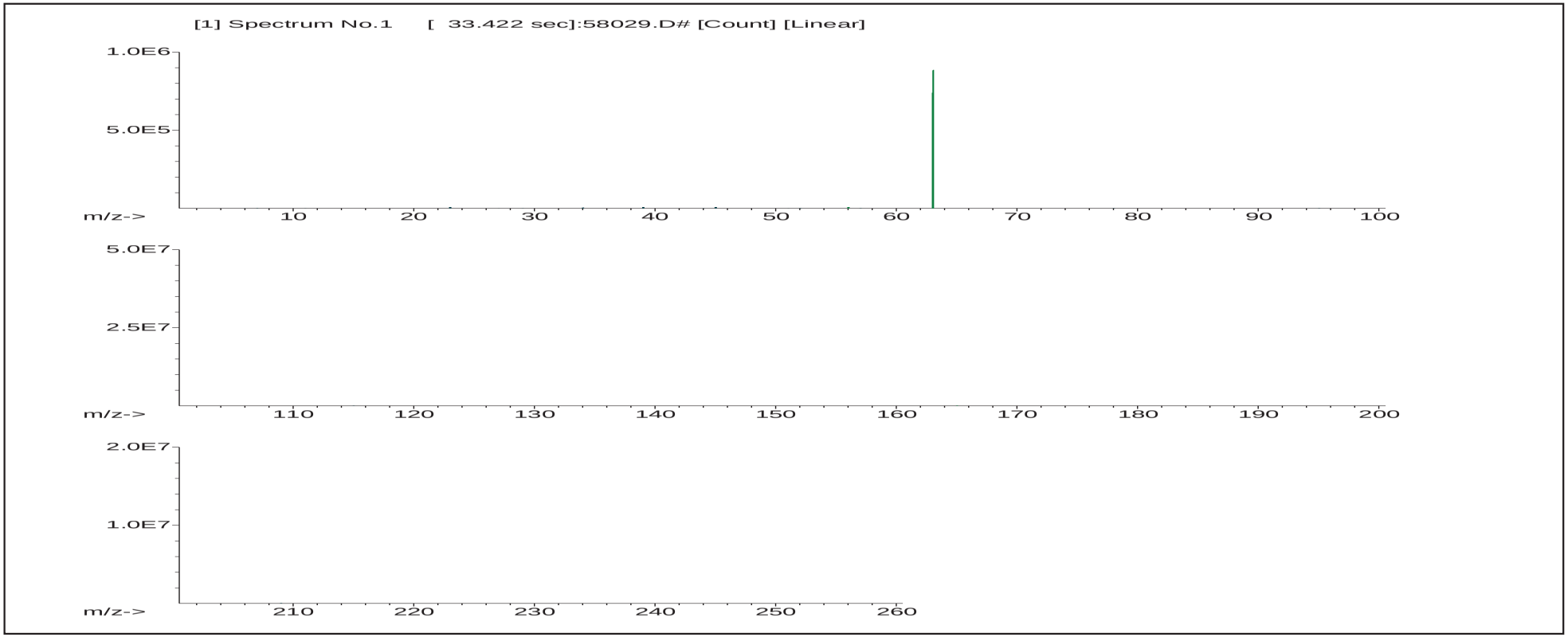
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	20510011	Nitric Acid	
Lot Number:	**102622**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102625			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Eli Aliaga	102622
Reviewed By:	Pedro L. Rentas	102622

862

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



863

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5555 M5556 M5557
M5558

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

M5575 M5576 M5577
M5578 M5579 M5580

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

RE 03/16/23, M5469, M5470, M5471, M5472

885

CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

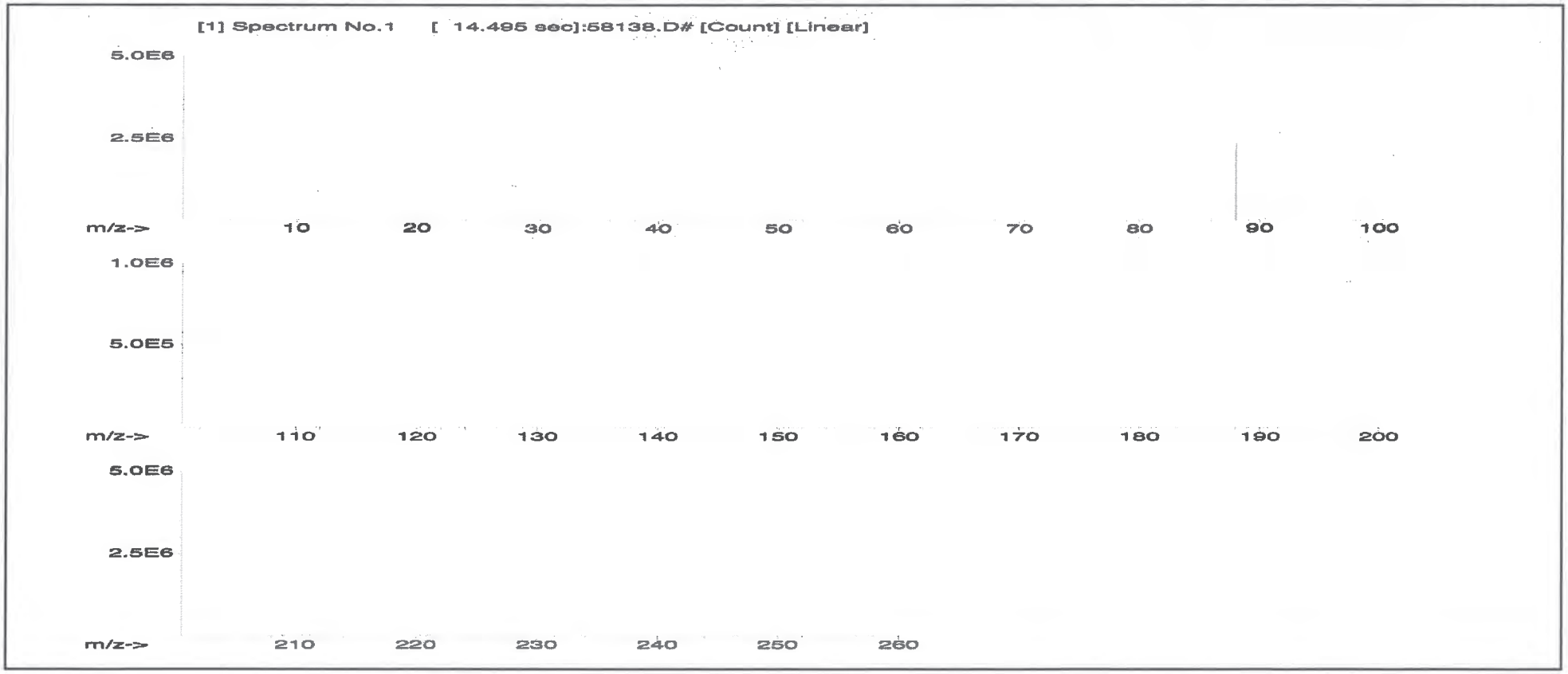
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 1000.12

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	20.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



886

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 03/16/23 M5473 M5474, M5475, M5476

887

CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
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Expiration Date: 082925
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Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

		Lot #	
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	2%	20.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
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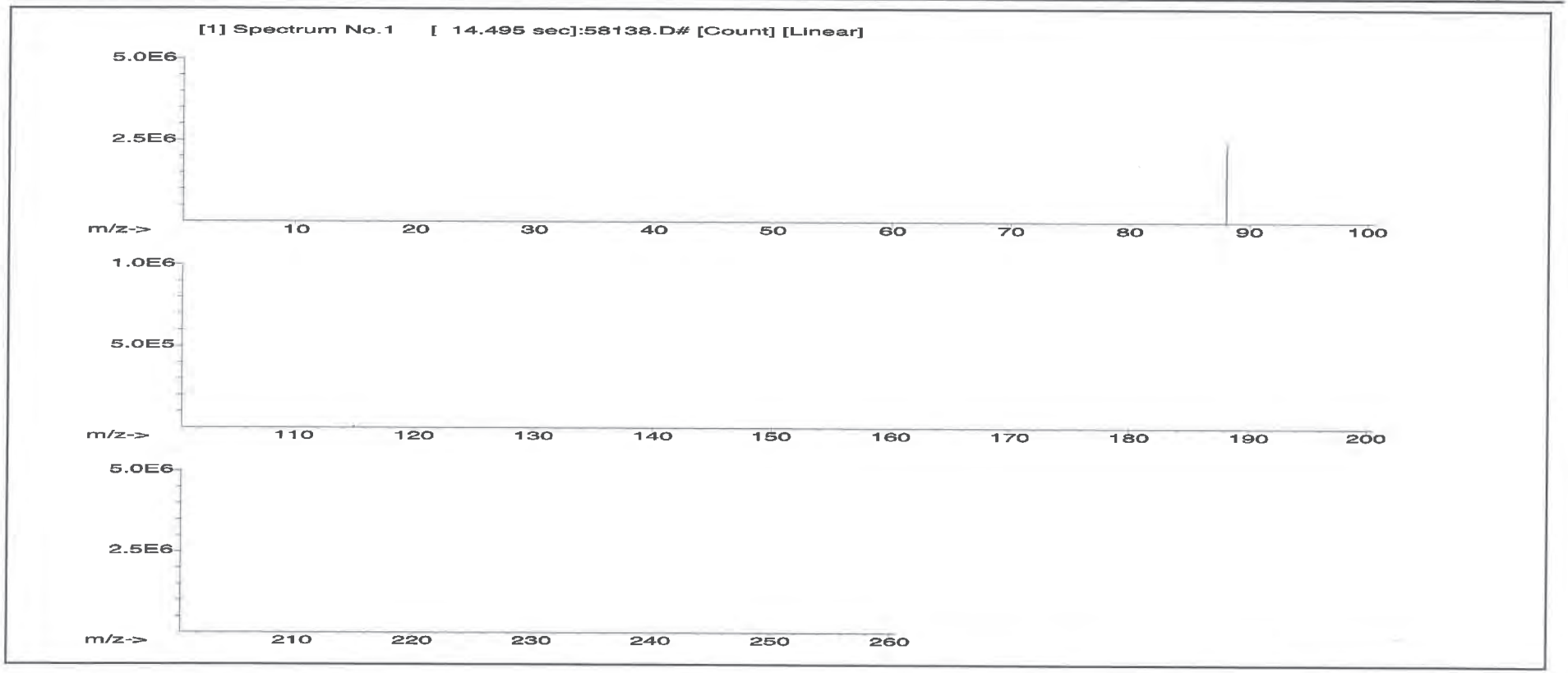

888

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Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

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CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153921

SOP ID : M200.8-Trace Elements-21, MSFAM01.1-Metals ICPMS-2

SDG No : MH0F15

Start Digest Date: 06/30/2023 **Time :** 12:30 **Temp :** 96 °C

Matrix : SOIL

End Digest Date: 06/30/2023 **Time :** 13:00 **Temp :** 96 °C

Pippete ID: ICP A

Digestion tube ID: M5593

Balance ID : M SC-2

Block thermometer ID: MET-DIG.#2

Filter paper ID : N/A

Dig Technician Signature: AJ

pH Strip ID : N/A

Supervisor Signature: BH

Hood ID : #3

Block ID: **1.** HOT BLOCK#5 **2.** N/A

Temp : **1.** 96°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP75815
Spike Sol. B	1.00	MP75816
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP75962
1:4 HCl Solution	10.00	MP74931
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/30/23 13:10	AJ/Dig. Lab	BH/Metals lab
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153921

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
O3447-01	MH0F15	N/A	1.48	500	Brown	Brown	Medium	N/A	N/A	5-1
O3447-02	MH0F16	N/A	1.21	500	Brown	Brown	Medium	N/A	N/A	2
O3447-03	MH0F17	N/A	1.12	500	Brown	Brown	Medium	N/A	N/A	3
O3447-04	MH0F18	N/A	1.28	500	Brown	Brown	Medium	N/A	N/A	4
O3447-05	MH0F21	N/A	1.12	500	Brown	Brown	Medium	N/A	N/A	5
O3447-06	MH0F22	N/A	1.23	500	Brown	Brown	Medium	N/A	N/A	6
O3447-07	MH0F23	N/A	1.14	500	Brown	Brown	Medium	N/A	N/A	7
O3447-08	MH0F23D	N/A	1.20	500	Brown	Brown	Medium	N/A	N/A	8
O3447-09	MH0F23S	N/A	1.21	500	Brown	Brown	Medium	N/A	MP75816	9
O3447-10	MH0F24	N/A	1.08	500	Brown	Brown	Medium	N/A	N/A	10
O3447-11	MH0F25	N/A	1.13	500	Brown	Brown	Medium	N/A	N/A	11
O3447-12	MH0F26	N/A	1.17	500	Brown	Brown	Medium	N/A	N/A	12
O3447-13	MH0F37	N/A	1.24	500	Brown	Brown	Medium	N/A	N/A	13
O3447-14	MH0F38	N/A	1.29	500	Brown	Brown	Medium	N/A	N/A	14
O3447-15	MH0F39	N/A	1.20	500	Brown	Brown	Medium	N/A	N/A	15
O3447-16	MH0F40	N/A	1.11	500	Brown	Brown	Medium	N/A	N/A	16
O3447-17	MH0F45	N/A	1.32	500	Brown	Brown	Medium	N/A	N/A	17
O3447-18	MH0F46	N/A	1.10	500	Brown	Brown	Medium	N/A	N/A	18
O3447-19	MH0F47	N/A	1.28	500	Brown	Brown	Medium	N/A	N/A	19
O3447-20	MH0F48	N/A	1.16	500	Brown	Brown	Medium	N/A	N/A	20
O3447-21	MH0F49	N/A	1.09	500	Brown	Brown	Medium	N/A	N/A	21
O3447-22	MH0F50	N/A	1.17	500	Brown	Brown	Medium	N/A	N/A	22
PB153921BL	PBS921	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	23
PB153921BS	LCS921	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP75815	24

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE075	TUNE	07/12/23 09:39		Jaswal	OK
2	S00	S0	CAL1	07/12/23 12:09		Jaswal	OK
3	S02	S02	CAL3	07/12/23 12:12		Jaswal	OK
4	S03	S03	CAL4	07/12/23 12:15		Jaswal	OK
5	S04	S04	CAL5	07/12/23 12:18		Jaswal	OK
6	S05	S05	CAL6	07/12/23 12:21		Jaswal	OK
7	S06	S06	CAL7	07/12/23 12:24		Jaswal	OK
8	S07	S07	CAL8	07/12/23 12:27		Jaswal	OK
9	S08	S08	CAL9	07/12/23 12:30		Jaswal	OK
10	ICV075	ICV075	ICV	07/12/23 13:14		Jaswal	OK
11	ICB075	ICB075	ICB	07/12/23 13:17		Jaswal	OK
12	ICSA075	ICSA075	ICSA	07/12/23 13:20		Jaswal	OK
13	ICSAB075	ICSAB075	ICSAB	07/12/23 13:23		Jaswal	OK
14	CCV023	CCV023	CCV	07/12/23 13:26	%RSD Fail For Ca	Jaswal	OK
15	CCB023	CCB023	CCB	07/12/23 13:29		Jaswal	OK
16	PB154039BL	PBW039	MB	07/12/23 13:32	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
17	PB154039BS	LCS039	LCS	07/12/23 13:35	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
18	O3524-01	MH0F96	SAM	07/12/23 13:38	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
19	O3524-02	MH0F97	SAM	07/12/23 13:41	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
20	O3524-03	MH0F97D	DUP	07/12/23 13:44	CCV023 %RSD Fail For Ca	Jaswal	Not Ok

CHEMTECH

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STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

21	O3524-02L	MH0F97L	SD	07/12/23 13:47	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
22	O3524-04	MH0F97S	MS	07/12/23 13:50	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
23	O3524-05	MH0F98	SAM	07/12/23 13:53	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
24	O3524-06	MH0F99	SAM	07/12/23 13:56	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
25	O3524-07	MH0FA0	SAM	07/12/23 13:59	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
26	PB153920BL	PBS920	MB	07/12/23 14:05		Jaswal	OK
27	PB153920BS	LCS920	LCS	07/12/23 14:09		Jaswal	OK
28	O3446-01	MH0F02	SAM	07/12/23 14:12		Jaswal	OK
29	O3446-02	MH0F02D	DUP	07/12/23 14:15		Jaswal	OK
30	O3446-01L	MH0F02L	SD	07/12/23 14:18		Jaswal	OK
31	O3446-03	MH0F02S	MS	07/12/23 14:21	MS Fail For AS	Jaswal	OK
32	O3446-04	MH0F03	SAM	07/12/23 14:24		Jaswal	OK
33	O3446-05	MH0F07	SAM	07/12/23 14:27		Jaswal	OK
34	O3446-06	MH0F08	SAM	07/12/23 14:30		Jaswal	OK
35	O3446-07	MH0F09	SAM	07/12/23 14:33		Jaswal	OK
36	O3446-08	MH0F10	SAM	07/12/23 14:35		Jaswal	OK
37	O3446-09	MH0F11	SAM	07/12/23 14:38		Jaswal	OK
38	O3446-10	MH0F12	SAM	07/12/23 14:41		Jaswal	OK
39	O3446-11	MH0F13	SAM	07/12/23 14:44		Jaswal	OK
40	O3446-12	MH0F14	SAM	07/12/23 14:47		Jaswal	OK
41	O3446-13	MH0F27	SAM	07/12/23 14:50		Jaswal	OK

CHEMTECH

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ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

42	O3446-14	MH0F28	SAM	07/12/23 14:53		Jaswal	OK
43	O3446-15	MH0F29	SAM	07/12/23 14:56		Jaswal	OK
44	CCV024	CCV024	CCV	07/12/23 15:05		Jaswal	OK
45	CCB024	CCB024	CCB	07/12/23 15:08		Jaswal	OK
46	O3446-16	MH0F30	SAM	07/12/23 15:11		Jaswal	OK
47	O3446-17	MH0F31	SAM	07/12/23 15:14		Jaswal	OK
48	O3446-18	MH0F32	SAM	07/12/23 15:17		Jaswal	OK
49	O3446-19	MH0F33	SAM	07/12/23 15:20		Jaswal	OK
50	O3446-20	MH0F34	SAM	07/12/23 15:23		Jaswal	OK
51	O3446-21	MH0F35	SAM	07/12/23 15:26		Jaswal	OK
52	O3446-22	MH0F36	SAM	07/12/23 15:29		Jaswal	OK
53	O3446-01A	MH0F02A	PS	07/12/23 15:32	PS For As	Jaswal	OK
54	PB153921BL	PBS921	MB	07/12/23 15:38		Jaswal	OK
55	PB153921BS	LCS921	LCS	07/12/23 15:41		Jaswal	OK
56	O3447-01	MH0F15	SAM	07/12/23 15:44		Jaswal	OK
57	O3447-02	MH0F16	SAM	07/12/23 15:47		Jaswal	OK
58	O3447-03	MH0F17	SAM	07/12/23 15:50	INT. STD 89m(1) 2_Fail	Jaswal	Dilution
59	O3447-04	MH0F18	SAM	07/12/23 15:53	INT. STD 89m(1) 2_Fail	Jaswal	Dilution
60	O3447-05	MH0F21	SAM	07/12/23 15:56		Jaswal	OK
61	O3447-06	MH0F22	SAM	07/12/23 15:59		Jaswal	OK
62	O3447-07	MH0F23	SAM	07/12/23 16:02		Jaswal	OK

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CRI Standard	
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63	O3447-08	MH0F23D	DUP	07/12/23 16:05		Jaswal	OK
64	O3447-07L	MH0F23L	SD	07/12/23 16:08		Jaswal	OK
65	O3447-09	MH0F23S	MS	07/12/23 16:11	MS Fail For Yn	Jaswal	OK
66	O3447-10	MH0F24	SAM	07/12/23 16:14		Jaswal	OK
67	O3447-11	MH0F25	SAM	07/12/23 16:17		Jaswal	OK
68	O3447-12	MH0F26	SAM	07/12/23 16:20		Jaswal	OK
69	O3447-13	MH0F37	SAM	07/12/23 16:23		Jaswal	OK
70	O3447-14	MH0F38	SAM	07/12/23 16:26		Jaswal	OK
71	O3447-15	MH0F39	SAM	07/12/23 16:29		Jaswal	OK
72	O3447-16	MH0F40	SAM	07/12/23 16:32		Jaswal	OK
73	O3447-17	MH0F45	SAM	07/12/23 16:35		Jaswal	OK
74	O3447-18	MH0F46	SAM	07/12/23 16:38		Jaswal	OK
75	CCV025	CCV025	CCV	07/12/23 16:50		Jaswal	OK
76	CCB025	CCB025	CCB	07/12/23 16:54		Jaswal	OK
77	O3447-19	MH0F47	SAM	07/12/23 16:57		Jaswal	OK
78	O3447-20	MH0F48	SAM	07/12/23 17:00		Jaswal	OK
79	O3447-21	MH0F49	SAM	07/12/23 17:03		Jaswal	OK
80	O3447-22	MH0F50	SAM	07/12/23 17:06		Jaswal	OK
81	O3447-03DL	MH0F17	SAM	07/12/23 17:09	2& For INT. STD 89m(1) 2_	Jaswal	ConZrX s
82	O3447-04DL	MH0F18	SAM	07/12/23 17:12	2& For INT. STD 89m(1) 2_	Jaswal	ConZrX s
83	O3447-07A	MH0F23A	PS	07/12/23 17:14	PS For Yn(0f0046X I X 4891-10X I saX ple_	Jaswal	OK

CHEMTECH

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CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

84	PB153993BL	PBS993	MB	07/12/23 17:19		Jaswal	OK
85	PB153993BS	LCS993	LCS	07/12/23 17:22		Jaswal	OK
86	O3448-12	MH0F68	SAM	07/12/23 17:26		Jaswal	OK
87	O3448-13	MH0F68D	DUP	07/12/23 17:28		Jaswal	OK
88	O3448-12L	MH0F68L	SD	07/12/23 17:31		Jaswal	OK
89	O3448-14	MH0F68S	MS	07/12/23 17:34		Jaswal	OK
90	O3448-05	MH0F57	SAM	07/12/23 17:37		Jaswal	OK
91	O3448-06	MH0F58	SAM	07/12/23 17:41		Jaswal	OK
92	O3448-07	MH0F59	SAM	07/12/23 17:44		Jaswal	OK
93	O3448-08	MH0F60	SAM	07/12/23 17:47		Jaswal	OK
94	O3448-09	MH0F61	SAM	07/12/23 17:50		Jaswal	OK
95	O3448-10	MH0F62	SAM	07/12/23 17:52		Jaswal	OK
96	O3448-11	MH0F63	SAM	07/12/23 17:55		Jaswal	OK
97	O3448-01	MH0F51	SAM	07/12/23 17:58		Jaswal	OK
98	O3448-02	MH0F54	SAM	07/12/23 18:01		Jaswal	OK
99	O3448-03	MH0F55	SAM	07/12/23 18:04		Jaswal	OK
100	O3448-04	MH0F56	SAM	07/12/23 18:07		Jaswal	OK
101	O3448-15	MH0F69	SAM	07/12/23 18:10		Jaswal	OK
102	O3448-16	MH0F70	SAM	07/12/23 18:13		Jaswal	OK
103	O3448-17	MH0F71	SAM	07/12/23 18:16		Jaswal	OK
104	O3448-18	MH0F72	SAM	07/12/23 18:19		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

105	O3448-19	MH0F73	SAM	07/12/23 18:22		Jaswal	OK
106	CCV026	CCV026	CCV	07/12/23 18:44		Jaswal	OK
107	CCB026	CCB026	CCB	07/12/23 18:48		Jaswal	OK
108	O3448-20	MH0F74	SAM	07/12/23 18:51		Jaswal	OK
109	O3448-21	MH0F75	SAM	07/12/23 18:54		Jaswal	OK
110	O3448-22	MH0F76	SAM	07/12/23 18:56		Jaswal	OK
111	PB153966BL	PBS966	MB	07/12/23 19:01		Jaswal	OK
112	PB153966BS	LCS966	LCS	07/12/23 19:04		Jaswal	OK
113	O3433-04	MJVA92	SAM	07/12/23 19:07		Jaswal	OK
114	O3433-05	MJVA92D	DUP	07/12/23 19:10		Jaswal	OK
115	O3433-04L	MJVA92L	SD	07/12/23 19:13		Jaswal	OK
116	O3433-06	MJVA92S	MS	07/12/23 19:16		Jaswal	OK
117	O3450-04	MH0F80	SAM	07/12/23 19:19		Jaswal	OK
118	O3450-05	MH0F80D	DUP	07/12/23 19:22		Jaswal	OK
119	O3450-04L	MH0F80L	SD	07/12/23 19:25		Jaswal	OK
120	O3450-06	MH0F80S	MS	07/12/23 19:28		Jaswal	OK
121	O3449-01	MH0F81	SAM	07/12/23 19:31		Jaswal	OK
122	O3449-02	MH0F81D	DUP	07/12/23 19:34		Jaswal	OK
123	O3449-01LRE	MH0F81L	SD	07/12/23 19:37	Not Use	Jaswal	Not Ok
124	O3449-03	MH0F81S	MS	07/12/23 19:40	MS Fail For Ba	Jaswal	OK
125	O3449-01L	MH0F81L	SD	07/12/23 19:43		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

126	O3433-01	MJVA80	SAM	07/12/23 19:46		Jaswal	OK
127	O3433-02	MJVA90	SAM	07/12/23 19:49		Jaswal	OK
128	O3433-03	MJVA91	SAM	07/12/23 19:52		Jaswal	OK
129	O3450-01	MH0F01	SAM	07/12/23 19:55		Jaswal	OK
130	O3450-02	MH0F05	SAM	07/12/23 19:58		Jaswal	OK
131	O3450-03	MH0F06	SAM	07/12/23 20:01		Jaswal	OK
132	O3449-04	MH0F82	SAM	07/12/23 20:04		Jaswal	OK
133	O3449-05	MH0F83	SAM	07/12/23 20:07		Jaswal	OK
134	O3449-06	MH0F84	SAM	07/12/23 20:10		Jaswal	OK
135	O3449-07	MH0F85	SAM	07/12/23 20:13		Jaswal	OK
136	O3449-08	MH0F86	SAM	07/12/23 20:16		Jaswal	OK
137	CCV027	CCV027	CCV	07/12/23 20:32		Jaswal	OK
138	CCB027	CCB027	CCB	07/12/23 20:36		Jaswal	OK
139	O3449-09	MH0F87	SAM	07/12/23 20:39		Jaswal	OK
140	O3449-10	MH0F88	SAM	07/12/23 20:42		Jaswal	OK
141	O3433-04A	MJVA92A	PS	07/12/23 20:45	Not Required	Jaswal	Not Ok
142	O3449-01A	MH0F81A	PS	07/12/23 20:48	PS For Ba(0f0082X I X 5387-10X I saX ple_	Jaswal	OK
143	CCV028	CCV028	CCV	07/12/23 20:55		Jaswal	OK
144	CCB028	CCB028	CCB	07/12/23 20:58		Jaswal	OK

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 46.60 LB
CAD: 6754017/SSF02422
DIMS: 24x14x13 IN
BILL THIRD PARTY

Part # 156287-430-BRRB2/EXP05/24

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24
INV:
PO: DEPT:

CR
6/27/23
13:30
17.8°C

FedEx Express

AM1405230423021

1 of 6

TRK# 0201 7802 8789 1515

MASTER

TE KBCA

TUE - 27 JUN 4:30P
** 2DAY **

07092
NJ-US EWR

Copy
Original Documents are included in CSF MIAOF02

Signature

6/27/23
Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 44.10 LB
CAD: 6754017/SSF02422
DIMS: 25x14x14 IN

BILL THIRD PARTY

Part # 156287-495-RRDRD-EXRS-06/24

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24
INV:
PO: DEPT:

6/27/23
13:30
20-1-C

FedEx Express

E

TUE - 27 JUN 4:30P
** 2DAY **

3 of 6
MPS# 0263 7802 8789 1537
Mstr# 7802 8789 1515 0201

TE KBCA

07092
NJ-US EWR

Copy
Original Documents are included in CSF MHQFQL

Signature

6/27/23
Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 24.95 LB
CAD: 6754017/SSF02422
DIMS: 26x14x14 IN

BILL THIRD PARTY

Part # 158297-405-EDR02-EX05/24

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140

INV:
PO:

REF: HIGHWAY 24

DEPT:

cl.
6/27/23
13:30
21.2°C

FedEx Express

J23202340501uv

4 of 6

MPS# 0263 **7802 8789 1548**

Mstr# 7802 8789 1515

0201

TE KBCA

TUE - 27 JUN 4:30P
**** 2DAY ****

07092
NJ-US **EWR**

Copy

Original Documents are included in CSF MHDCA2

Signature

6/27/23

Date

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3447	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Sohil
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	6/30/2023 9:44:12 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3447-01	MH0F15	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-02	MH0F16	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-03	MH0F17	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-04	MH0F18	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-05	MH0F21	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-06	MH0F22	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-07	MH0F23	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-08	MH0F23D	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-09	MH0F23S	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-10	MH0F24	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

O3447-11	MH0F25	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-12	MH0F26	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-13	MH0F37	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-14	MH0F38	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-15	MH0F39	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-16	MH0F40	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-17	MH0F45	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-18	MH0F46	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-19	MH0F47	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-20	MH0F48	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-21	MH0F49	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3447-22	MH0F50	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153921 **WorkList ID :** 171516 **Department :** Digestion **Date :** 06-30-2023 10:41:34

903

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3447-01	MH0F15	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-02	MH0F16	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-03	MH0F17	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-04	MH0F18	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-05	MH0F21	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-06	MH0F22	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-07	MH0F23	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-08	MH0F23D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-09	MH0F23S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-10	MH0F24	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-11	MH0F25	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-12	MH0F26	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-13	MH0F37	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-14	MH0F38	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-15	MH0F39	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-16	MH0F40	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-17	MH0F45	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-18	MH0F46	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-19	MH0F47	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/12/2023	SFAM_MS
O3447-20	MH0F48	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS
O3447-21	MH0F49	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS

Date/Time 6/30/23 11:30

Raw Sample Received by: A/Big.Lab

Raw Sample Relinquished by: IT (SM)

Date/Time 6/30/23 12:45

Raw Sample Received by: IT (SM)

Raw Sample Relinquished by: A/Big.Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153921 **WorkList ID :** 171516 **Department :** Digestion **Date :** 06-30-2023 10:41:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3447-22	MH0F50	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B21	06/13/2023	SFAM_MS

Date/Time 6/30/23 11:30
Raw Sample Received by: AV Dig Lab
Raw Sample Relinquished by: IT (SM)

Date/Time 6/30/23 12:45
Raw Sample Received by: IT (SM)
Raw Sample Relinquished by: AV Dig Lab

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0F51

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0F51	O3448-01		X		
MH0F54	O3448-02		X		
MH0F55	O3448-03		X		
MH0F56	O3448-04		X		
MH0F57	O3448-05		X		
MH0F58	O3448-06		X		
MH0F59	O3448-07		X		
MH0F60	O3448-08		X		
MH0F61	O3448-09		X		
MH0F62	O3448-10		X		
MH0F63	O3448-11		X		
MH0F68	O3448-12		X		
MH0F68D	O3448-13		X		
MH0F68S	O3448-14		X		
MH0F69	O3448-15		X		
MH0F70	O3448-16		X		
MH0F71	O3448-17		X		
MH0F72	O3448-18		X		
MH0F73	O3448-19		X		
MH0F74	O3448-20		X		
MH0F75	O3448-21		X		
MH0F76	O3448-22		X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name:

Date: 7/17/2023 Title:

APPROVED

By Nimisha Pandya QA/QC Supervisor at 11:55 am, Jul 17, 2023

68HERH20D0011 SDG # MH0F51

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS24-1-6	MH0F51	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1153, 1154 (2)	24	06/13/2023 08:40	3 19
HWY-SS26-0-1	MH0F54	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1159, 1160 (2)	26	06/12/2023 10:55	3 20
HWY-SS26-1-6	MH0F55	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1161, 1162 (2)	26	06/12/2023 10:57	4 3
HWY-SS27-0-1	MH0F56	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1163, 1164 (2)	27	06/12/2023 14:07	4 4
HWY-SS27-1-6	MH0F57	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1165, 1166 (2)	27	06/12/2023 08:48	4 5
HWY-SS28-0-1	MH0F58	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1167, 1168 (2)	28	06/12/2023 12:00	4 6
HWY-SS28-1-6	MH0F59	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1169, 1170 (2)	28	06/12/2023 12:00	4 7
HWY-SS29-0-1	MH0F60	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1171, 1172 (2)	29	06/12/2023 14:30	4 8
HWY-SS29-1-6	MH0F61	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1173, 1174 (2)	29	06/12/2023 14:30	4 9
HWY-SS30-0-1	MH0F62	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1175, 1176 (2)	30	06/13/2023 11:00	4 10

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	Ice Chest #1
					Custody Seal Intact
					No temp Blank
					17.8, 20.1, 21.2, 19.3, 19.1

68HERH20D0011 SDG # MH0F51

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS30-1-6	MH0F63	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1177, 1178 (2)	30	06/13/2023 11:00	4 (12) 3
HWY-SS33-0-1	MH0F68	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1187, 1188 (6)	33	06/12/2023 15:40	4 • 12 5
HWY-SS33-1-6	MH0F69	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1189, 1190 (6)	33	06/12/2023 15:40	4 • 13
HWY-SS34-0-1	MH0F70	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1191, 1192 (2)	34	06/13/2023 15:10	4 14
HWY-SS34-1-6	MH0F71	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1193, 1194 (2)	34	06/13/2023 15:10	4 15
HWY-SS35-0-1	MH0F72	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1195, 1196 (2)	35	06/13/2023 08:45	4 16
HWY-SS35-1-6	MH0F73	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1197, 1198 (2)	35	06/13/2023 08:45	5 17
HWY-SS20-0-1	MH0F74	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1199, 1200 (2)	20	06/12/2023 11:23	5 18
HWY-SS21-0-1	MH0F75	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1201, 1202 (2)	21	06/12/2023 09:52	5 19
HWY-SS20-1-6	MH0F76	Soil/ LaFemina_Matt	Composite	ICP-MS(21), Hg(21)	1203, 1204 (2)	20	06/12/2023 11:27	5 20

Sample(s) to be used for Lab QC: HWY-SS33-0-1 Tag 1187, HWY-SS33-0-1 Tag 1188, HWY-SS33-1-6 Tag 1189, HWY-SS33-1-6 Tag 1190, HWY-SS01-0-1-DUP Tag 1216, HWY-SS01-0-1-DUP Tag 1217	**Shipment for Case Complete? N** **Samples Transferred From Chain of Custody #**
Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	FP Cont #1
					Custody Seal intact
					no temp Blank
					17.8°, 20.1°, 21.2°, 19.3°, 19.1°

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 3
Received By (Print Name) Gangarava Rao		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F51	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891548 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	21.2 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH0F51	N/A	1153,54	O3448-01	Intact
2	MH0F54	N/A	1159,60	O3448-02	Intact
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 2 of 3
Received By (Print Name) Casparan		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F51	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891559 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	19.3 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F55	N/A	1161,62	O3448-03	Intact
2	MH0F56	N/A	1163,64	O3448-04	Intact
3	MH0F57	N/A	1165,66	O3448-05	Intact
4	MH0F58	N/A	1167,68	O3448-06	Intact
5	MH0F59	N/A	1169,70	O3448-07	Intact
6	MH0F60	N/A	1171,72	O3448-08	Intact
7	MH0F61	N/A	1173,74	O3448-09	Intact
8	MH0F62	N/A	1175,76	O3448-10	Intact
9	MH0F63	N/A	1177,78	O3448-11	Intact
10	MH0F68	N/A	1187,88	O3448-12	Intact
11	MH0F68D	N/A	1187,88	O3448-13	Intact
12	MH0F68S	N/A	1187,88	O3448-14	Intact
13	MH0F69	N/A	1189,90	O3448-15	Intact
14	MH0F70	N/A	1191,92	O3448-16	Intact
15	MH0F71	N/A	1193,94	O3448-17	Intact
16	MH0F72	N/A	1195,96	O3448-18	Intact
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook/No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 3 of 3
Received By (Print Name) Cassanova Reia		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F51	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891560 3
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	19.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F73	N/A	1197,98	O3448-19	Intact
2	MH0F74	N/A	1199,1200	O3448-20	Intact
3	MH0F75	N/A	1201,02	O3448-21	Intact
4	MH0F76	N/A	1203,04	O3448-22	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0F51**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	6	✓	
4. CSF Inventory Sheet (DC-2)	7	9	✓	
5. SDG Narrative	10	13	✓	
6. Communication Logs	14	35	✓	
7. Percent Solids Log	36	38	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	39	58	✓	
18. Instrument raw data by instrument in analysis order	59	926	✓	
Other Data				
19. Standard and Reagent Preparation Logs	927	1065	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1066	1067	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1068	1074	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 3)	1075	1077	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1078	1079	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1080	1081	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab) N. N. Pandya (Signature) | Nimisha Pandya, Document Control Officer (Print Name & Title) | 7/17/2023 (Date)

Audited by: (EPA) (Signature) | (Print Name & Title) | (Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0F51
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3448

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Metals CLP MS Full = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium & Zinc.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**
Cooler: 21.2^{o}C, 19.3^{o}C, 19.1^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 3: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Issue 4: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 5: Air bill numbers are missing on all COCs.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 4: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 5: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0F51 for Arsenic:

If C = 51.85 ppb
Vf = 500 ml
W = 1.08 g
S = 1(100/100)
DF = 1

$$\text{Concentration (mg/kg)} = 51.85 \times \frac{500}{1.08 \times 1} \times 1 / 1000$$

$$= 24.0046 \text{ mg/kg}$$

$$= 24 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya

Name: Nimisha Pandya

Date 7/17/2023

Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett'; Britz, Helen; Gambrah, Derrick
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL
Attachments: Revised COC_8-061523-134849-0002_v20230707.pdf

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

GENERAL DYNAMICS
Information Technology

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247

303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick

Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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Think Green - Not every email needs to be printed

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen'

<Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,
Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356

Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

CHEMTECH

PERCENT SOLID

Supervisor: Sohil
Analyst: JIGNESH
Date: 7/12/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 14:25
In Date: 06/30/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:45
Out Date: 07/01/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126268

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3448-01	MH0F51	1	1.00	1.00	2.00	2.00	100.0	
O3448-02	MH0F54	2	1.00	1.00	2.00	2.00	100.0	
O3448-03	MH0F55	3	1.00	1.00	2.00	2.00	100.0	
O3448-04	MH0F56	4	1.00	1.00	2.00	2.00	100.0	
O3448-05	MH0F57	5	1.00	1.00	2.00	2.00	100.0	
O3448-06	MH0F58	6	1.00	1.00	2.00	2.00	100.0	
O3448-07	MH0F59	7	1.00	1.00	2.00	2.00	100.0	
O3448-08	MH0F60	8	1.00	1.00	2.00	2.00	100.0	
O3448-09	MH0F61	9	1.00	1.00	2.00	2.00	100.0	
O3448-10	MH0F62	10	1.00	1.00	2.00	2.00	100.0	
O3448-11	MH0F63	11	1.00	1.00	2.00	2.00	100.0	
O3448-12	MH0F68	12	1.00	1.00	2.00	2.00	100.0	
O3448-13	MH0F68D	13	1.00	1.00	2.00	2.00	100.0	
O3448-14	MH0F68S	14	1.00	1.00	2.00	2.00	100.0	
O3448-15	MH0F69	15	1.00	1.00	2.00	2.00	100.0	
O3448-16	MH0F70	16	1.00	1.00	2.00	2.00	100.0	
O3448-17	MH0F71	17	1.00	1.00	2.00	2.00	100.0	
O3448-18	MH0F72	18	1.00	1.00	2.00	2.00	100.0	
O3448-19	MH0F73	19	1.00	1.00	2.00	2.00	100.0	
O3448-20	MH0F74	20	1.00	1.00	2.00	2.00	100.0	
O3448-21	MH0F75	21	1.00	1.00	2.00	2.00	100.0	
O3448-22	MH0F76	22	1.00	1.00	2.00	2.00	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

VB 126268

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3448 **WorkList ID :** 171513 **Department :** Wet-Chemistry **Date :** 06-30-2023 10:33:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3448-01	MH0F51	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/13/2023	Chemtech -SO
O3448-02	MH0F54	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-03	MH0F55	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-04	MH0F56	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-05	MH0F57	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-06	MH0F58	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-07	MH0F59	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-08	MH0F60	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-09	MH0F61	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-10	MH0F62	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/13/2023	Chemtech -SO
O3448-11	MH0F63	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/13/2023	Chemtech -SO
O3448-12	MH0F68	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-13	MH0F68D	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-14	MH0F68S	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-15	MH0F69	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-16	MH0F70	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/13/2023	Chemtech -SO
O3448-17	MH0F71	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/13/2023	Chemtech -SO
O3448-18	MH0F72	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/13/2023	Chemtech -SO
O3448-19	MH0F73	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/13/2023	Chemtech -SO
O3448-20	MH0F74	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO
O3448-21	MH0F75	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO

37

Date/Time 06130/23 13:30

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: Cp Sm

Date/Time 06130/23 14:30

Raw Sample Received by: Cp Sm

Raw Sample Relinquished by: JD (WC)

VB 126268

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3448 **WorkList ID :** 171513 **Department :** Wet-Chemistry **Date :** 06-30-2023 10:33:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3448-22	MH0F76	Solid	Percent Solids	Cool 4 deg C	USEP01	B42	06/12/2023	Chemtech -SO

38

Date/Time 06/30/23 13:30
Raw Sample Received by: JP / WC
Raw Sample Relinquished by: Cp Sm

Date/Time 06/30/23 14:30
Raw Sample Received by: Cp Sm
Raw Sample Relinquished by: JP / WC

EPA SAMPLE NO.

MH0F51

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-01

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.82	J	07/12/2023	1758
7440-38-2	Arsenic	24		07/12/2023	1758
7440-39-3	Barium	200		07/12/2023	1758
7440-41-7	Beryllium	1.1		07/12/2023	1758
7440-43-9	Cadmium	1.3		07/12/2023	1758
7440-47-3	Chromium	21		07/12/2023	1758
7440-48-4	Cobalt	6.5		07/12/2023	1758
7440-50-8	Copper	40		07/12/2023	1758
7439-92-1	Lead	110		07/12/2023	1758
7439-96-5	Manganese	650		07/12/2023	1758
7440-02-0	Nickel	17		07/12/2023	1758
7782-49-2	Selenium	0.84	J	07/12/2023	1758
7440-22-4	Silver	0.53		07/12/2023	1758
7440-28-0	Thallium	0.19	J	07/12/2023	1758
7440-62-2	Vanadium	30		07/12/2023	1758
7440-66-6	Zinc	240		07/12/2023	1758

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F54

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-02

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.32	J	07/12/2023	1801
7440-38-2	Arsenic	4.9		07/12/2023	1801
7440-39-3	Barium	190		07/12/2023	1801
7440-41-7	Beryllium	0.56		07/12/2023	1801
7440-43-9	Cadmium	0.51		07/12/2023	1801
7440-47-3	Chromium	9.1		07/12/2023	1801
7440-48-4	Cobalt	5.1		07/12/2023	1801
7440-50-8	Copper	15		07/12/2023	1801
7439-92-1	Lead	30		07/12/2023	1801
7439-96-5	Manganese	270		07/12/2023	1801
7440-02-0	Nickel	9.2		07/12/2023	1801
7782-49-2	Selenium	0.29	J	07/12/2023	1801
7440-22-4	Silver	0.096	J	07/12/2023	1801
7440-28-0	Thallium	0.11	J	07/12/2023	1801
7440-62-2	Vanadium	23		07/12/2023	1801
7440-66-6	Zinc	110		07/12/2023	1801

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F55

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-03

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.13	J	07/12/2023	1804
7440-38-2	Arsenic	3.8		07/12/2023	1804
7440-39-3	Barium	120		07/12/2023	1804
7440-41-7	Beryllium	0.40		07/12/2023	1804
7440-43-9	Cadmium	0.19	J	07/12/2023	1804
7440-47-3	Chromium	5.9		07/12/2023	1804
7440-48-4	Cobalt	3.6		07/12/2023	1804
7440-50-8	Copper	8.5		07/12/2023	1804
7439-92-1	Lead	14		07/12/2023	1804
7439-96-5	Manganese	190		07/12/2023	1804
7440-02-0	Nickel	7.2		07/12/2023	1804
7782-49-2	Selenium	1.9	U	07/12/2023	1804
7440-22-4	Silver	0.046	J	07/12/2023	1804
7440-28-0	Thallium	0.085	J	07/12/2023	1804
7440-62-2	Vanadium	15		07/12/2023	1804
7440-66-6	Zinc	46		07/12/2023	1804

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F56

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-04

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.22	J	07/12/2023	1807
7440-38-2	Arsenic	15		07/12/2023	1807
7440-39-3	Barium	160		07/12/2023	1807
7440-41-7	Beryllium	0.68		07/12/2023	1807
7440-43-9	Cadmium	0.40		07/12/2023	1807
7440-47-3	Chromium	19		07/12/2023	1807
7440-48-4	Cobalt	12		07/12/2023	1807
7440-50-8	Copper	27		07/12/2023	1807
7439-92-1	Lead	22		07/12/2023	1807
7439-96-5	Manganese	930		07/12/2023	1807
7440-02-0	Nickel	29		07/12/2023	1807
7782-49-2	Selenium	1.1	J	07/12/2023	1807
7440-22-4	Silver	0.12	J	07/12/2023	1807
7440-28-0	Thallium	0.17	J	07/12/2023	1807
7440-62-2	Vanadium	39		07/12/2023	1807
7440-66-6	Zinc	110		07/12/2023	1807

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F57

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-05

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.36	J	07/12/2023	1737
7440-38-2	Arsenic	14		07/12/2023	1737
7440-39-3	Barium	190		07/12/2023	1737
7440-41-7	Beryllium	0.82		07/12/2023	1737
7440-43-9	Cadmium	0.48		07/12/2023	1737
7440-47-3	Chromium	16		07/12/2023	1737
7440-48-4	Cobalt	12		07/12/2023	1737
7440-50-8	Copper	24		07/12/2023	1737
7439-92-1	Lead	26		07/12/2023	1737
7439-96-5	Manganese	1100		07/12/2023	1737
7440-02-0	Nickel	28		07/12/2023	1737
7782-49-2	Selenium	1.6	J	07/12/2023	1737
7440-22-4	Silver	0.11	J	07/12/2023	1737
7440-28-0	Thallium	0.20	J	07/12/2023	1737
7440-62-2	Vanadium	37		07/12/2023	1737
7440-66-6	Zinc	89		07/12/2023	1737

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F58

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 28HERH60D0011

Lab Code: CHM Case No.: 50852 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-02

% Solids: 100 Date Received: 02/67/6063

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-32-0	Antimony	0.37	J	07/16/6063	1741
7440-38-6	Arsenic	9.8		07/16/6063	1741
7440-39-3	Barium	110		07/16/6063	1741
7440-41-7	Beryllium	0.25		07/16/6063	1741
7440-43-9	Cadmium	0.81		07/16/6063	1741
7440-47-3	Chromium	16		07/16/6063	1741
7440-48-4	Cobalt	5.4		07/16/6063	1741
7440-50-8	Copper	17		07/16/6063	1741
7439-96-1	Lead	69		07/16/6063	1741
7439-92-5	Manganese	670		07/16/6063	1741
7440-06-0	Nickel	13		07/16/6063	1741
7786-49-6	Selenium	0.25	J	07/16/6063	1741
7440-66-4	Silver	0.60	J	07/16/6063	1741
7440-68-0	Thallium	0.14	J	07/16/6063	1741
7440-26-6	Vanadium	65		07/16/6063	1741
7440-22-2	Zinc	160		07/16/6063	1741

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F59

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-07

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.30	J	07/12/2023	1744
7440-38-2	Arsenic	11		07/12/2023	1744
7440-39-3	Barium	120		07/12/2023	1744
7440-41-7	Beryllium	0.76		07/12/2023	1744
7440-43-9	Cadmium	0.97		07/12/2023	1744
7440-47-3	Chromium	13		07/12/2023	1744
7440-48-4	Cobalt	6.7		07/12/2023	1744
7440-50-8	Copper	16		07/12/2023	1744
7439-92-1	Lead	33		07/12/2023	1744
7439-96-5	Manganese	380		07/12/2023	1744
7440-02-0	Nickel	15		07/12/2023	1744
7782-49-2	Selenium	0.62	J	07/12/2023	1744
7440-22-4	Silver	0.31	J	07/12/2023	1744
7440-28-0	Thallium	0.17	J	07/12/2023	1744
7440-62-2	Vanadium	26		07/12/2023	1744
7440-66-6	Zinc	100		07/12/2023	1744

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F60

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-08

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.52	J	07/12/2023	1747
7440-38-2	Arsenic	10		07/12/2023	1747
7440-39-3	Barium	130		07/12/2023	1747
7440-41-7	Beryllium	1.4		07/12/2023	1747
7440-43-9	Cadmium	0.71		07/12/2023	1747
7440-47-3	Chromium	7.8		07/12/2023	1747
7440-48-4	Cobalt	4.8		07/12/2023	1747
7440-50-8	Copper	17		07/12/2023	1747
7439-92-1	Lead	46		07/12/2023	1747
7439-96-5	Manganese	400		07/12/2023	1747
7440-02-0	Nickel	8.2		07/12/2023	1747
7782-49-2	Selenium	0.76	J	07/12/2023	1747
7440-22-4	Silver	0.80		07/12/2023	1747
7440-28-0	Thallium	0.17	J	07/12/2023	1747
7440-62-2	Vanadium	20		07/12/2023	1747
7440-66-6	Zinc	140		07/12/2023	1747

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F61

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-09

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.5		07/12/2023	1750
7440-38-2	Arsenic	27		07/12/2023	1750
7440-39-3	Barium	200		07/12/2023	1750
7440-41-7	Beryllium	1.4		07/12/2023	1750
7440-43-9	Cadmium	0.84		07/12/2023	1750
7440-47-3	Chromium	13		07/12/2023	1750
7440-48-4	Cobalt	5.3		07/12/2023	1750
7440-50-8	Copper	29		07/12/2023	1750
7439-92-1	Lead	110		07/12/2023	1750
7439-96-5	Manganese	520		07/12/2023	1750
7440-02-0	Nickel	11		07/12/2023	1750
7782-49-2	Selenium	0.60	J	07/12/2023	1750
7440-22-4	Silver	0.88		07/12/2023	1750
7440-28-0	Thallium	0.20	J	07/12/2023	1750
7440-62-2	Vanadium	27		07/12/2023	1750
7440-66-6	Zinc	160		07/12/2023	1750

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F62

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-10

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.37	J	07/12/2023	1752
7440-38-2	Arsenic	14		07/12/2023	1752
7440-39-3	Barium	150		07/12/2023	1752
7440-41-7	Beryllium	0.97		07/12/2023	1752
7440-43-9	Cadmium	0.41		07/12/2023	1752
7440-47-3	Chromium	12		07/12/2023	1752
7440-48-4	Cobalt	7.9		07/12/2023	1752
7440-50-8	Copper	18		07/12/2023	1752
7439-92-1	Lead	25		07/12/2023	1752
7439-96-5	Manganese	690		07/12/2023	1752
7440-02-0	Nickel	18		07/12/2023	1752
7782-49-2	Selenium	0.62	J	07/12/2023	1752
7440-22-4	Silver	0.17	J	07/12/2023	1752
7440-28-0	Thallium	0.17	J	07/12/2023	1752
7440-62-2	Vanadium	28		07/12/2023	1752
7440-66-6	Zinc	110		07/12/2023	1752

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F63

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-11

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.57	J	07/12/2023	1755
7440-38-2	Arsenic	19		07/12/2023	1755
7440-39-3	Barium	130		07/12/2023	1755
7440-41-7	Beryllium	0.81		07/12/2023	1755
7440-43-9	Cadmium	0.47		07/12/2023	1755
7440-47-3	Chromium	20		07/12/2023	1755
7440-48-4	Cobalt	9.1		07/12/2023	1755
7440-50-8	Copper	20		07/12/2023	1755
7439-92-1	Lead	23		07/12/2023	1755
7439-96-5	Manganese	920		07/12/2023	1755
7440-02-0	Nickel	21		07/12/2023	1755
7782-49-2	Selenium	1.1	J	07/12/2023	1755
7440-22-4	Silver	0.16	J	07/12/2023	1755
7440-28-0	Thallium	0.16	J	07/12/2023	1755
7440-62-2	Vanadium	32		07/12/2023	1755
7440-66-6	Zinc	120		07/12/2023	1755

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F68

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-12

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.28	J	07/12/2023	1726
7440-38-2	Arsenic	6.7		07/12/2023	1726
7440-39-3	Barium	120		07/12/2023	1726
7440-41-7	Beryllium	0.73		07/12/2023	1726
7440-43-9	Cadmium	0.42		07/12/2023	1726
7440-47-3	Chromium	9.9		07/12/2023	1726
7440-48-4	Cobalt	5.7		07/12/2023	1726
7440-50-8	Copper	15		07/12/2023	1726
7439-92-1	Lead	21		07/12/2023	1726
7439-96-5	Manganese	350		07/12/2023	1726
7440-02-0	Nickel	15		07/12/2023	1726
7782-49-2	Selenium	0.76	J	07/12/2023	1726
7440-22-4	Silver	0.12	J	07/12/2023	1726
7440-28-0	Thallium	0.20	J	07/12/2023	1726
7440-62-2	Vanadium	25		07/12/2023	1726
7440-66-6	Zinc	96		07/12/2023	1726

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F69

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-15

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.27	J	07/12/2023	1810
7440-38-2	Arsenic	8.8		07/12/2023	1810
7440-39-3	Barium	150		07/12/2023	1810
7440-41-7	Beryllium	0.92		07/12/2023	1810
7440-43-9	Cadmium	0.53		07/12/2023	1810
7440-47-3	Chromium	14		07/12/2023	1810
7440-48-4	Cobalt	7.4		07/12/2023	1810
7440-50-8	Copper	17		07/12/2023	1810
7439-92-1	Lead	25		07/12/2023	1810
7439-96-5	Manganese	380		07/12/2023	1810
7440-02-0	Nickel	20		07/12/2023	1810
7782-49-2	Selenium	0.89	J	07/12/2023	1810
7440-22-4	Silver	0.11	J	07/12/2023	1810
7440-28-0	Thallium	0.24	J	07/12/2023	1810
7440-62-2	Vanadium	32		07/12/2023	1810
7440-66-6	Zinc	90		07/12/2023	1810

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F70

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-16

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.68	J	07/12/2023	1813
7440-38-2	Arsenic	28		07/12/2023	1813
7440-39-3	Barium	190		07/12/2023	1813
7440-41-7	Beryllium	1.5		07/12/2023	1813
7440-43-9	Cadmium	1.3		07/12/2023	1813
7440-47-3	Chromium	10		07/12/2023	1813
7440-48-4	Cobalt	6.3		07/12/2023	1813
7440-50-8	Copper	24		07/12/2023	1813
7439-92-1	Lead	100		07/12/2023	1813
7439-96-5	Manganese	810		07/12/2023	1813
7440-02-0	Nickel	12		07/12/2023	1813
7782-49-2	Selenium	0.67	J	07/12/2023	1813
7440-22-4	Silver	0.71		07/12/2023	1813
7440-28-0	Thallium	0.27	J	07/12/2023	1813
7440-62-2	Vanadium	26		07/12/2023	1813
7440-66-6	Zinc	260		07/12/2023	1813

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F71

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-17

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.74		07/12/2023	1816
7440-38-2	Arsenic	27		07/12/2023	1816
7440-39-3	Barium	180		07/12/2023	1816
7440-41-7	Beryllium	1.4		07/12/2023	1816
7440-43-9	Cadmium	1.4		07/12/2023	1816
7440-47-3	Chromium	11		07/12/2023	1816
7440-48-4	Cobalt	7.1		07/12/2023	1816
7440-50-8	Copper	31		07/12/2023	1816
7439-92-1	Lead	89		07/12/2023	1816
7439-96-5	Manganese	880		07/12/2023	1816
7440-02-0	Nickel	14		07/12/2023	1816
7782-49-2	Selenium	0.75	J	07/12/2023	1816
7440-22-4	Silver	0.62		07/12/2023	1816
7440-28-0	Thallium	0.27	J	07/12/2023	1816
7440-62-2	Vanadium	27		07/12/2023	1816
7440-66-6	Zinc	230		07/12/2023	1816

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F72

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-18

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.4		07/12/2023	1819
7440-38-2	Arsenic	35		07/12/2023	1819
7440-39-3	Barium	190		07/12/2023	1819
7440-41-7	Beryllium	0.91		07/12/2023	1819
7440-43-9	Cadmium	3.8		07/12/2023	1819
7440-47-3	Chromium	13		07/12/2023	1819
7440-48-4	Cobalt	5.5		07/12/2023	1819
7440-50-8	Copper	62		07/12/2023	1819
7439-92-1	Lead	640		07/12/2023	1819
7439-96-5	Manganese	730		07/12/2023	1819
7440-02-0	Nickel	12		07/12/2023	1819
7782-49-2	Selenium	0.60	J	07/12/2023	1819
7440-22-4	Silver	3.7		07/12/2023	1819
7440-28-0	Thallium	0.21	J	07/12/2023	1819
7440-62-2	Vanadium	26		07/12/2023	1819
7440-66-6	Zinc	660		07/12/2023	1819

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F73

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-19

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.5		07/12/2023	1822
7440-38-2	Arsenic	43		07/12/2023	1822
7440-39-3	Barium	200		07/12/2023	1822
7440-41-7	Beryllium	1.0		07/12/2023	1822
7440-43-9	Cadmium	7.2		07/12/2023	1822
7440-47-3	Chromium	11		07/12/2023	1822
7440-48-4	Cobalt	5.2		07/12/2023	1822
7440-50-8	Copper	65		07/12/2023	1822
7439-92-1	Lead	390		07/12/2023	1822
7439-96-5	Manganese	750		07/12/2023	1822
7440-02-0	Nickel	12		07/12/2023	1822
7782-49-2	Selenium	0.47	J	07/12/2023	1822
7440-22-4	Silver	2.3		07/12/2023	1822
7440-28-0	Thallium	0.19	J	07/12/2023	1822
7440-62-2	Vanadium	32		07/12/2023	1822
7440-66-6	Zinc	1000		07/12/2023	1822

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F74

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-20

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.30	J	07/12/2023	1851
7440-38-2	Arsenic	3.0		07/12/2023	1851
7440-39-3	Barium	230		07/12/2023	1851
7440-41-7	Beryllium	0.84		07/12/2023	1851
7440-43-9	Cadmium	0.44	J	07/12/2023	1851
7440-47-3	Chromium	7.3		07/12/2023	1851
7440-48-4	Cobalt	4.9		07/12/2023	1851
7440-50-8	Copper	14		07/12/2023	1851
7439-92-1	Lead	18		07/12/2023	1851
7439-96-5	Manganese	270		07/12/2023	1851
7440-02-0	Nickel	5.8		07/12/2023	1851
7782-49-2	Selenium	0.44	J	07/12/2023	1851
7440-22-4	Silver	0.098	J	07/12/2023	1851
7440-28-0	Thallium	0.25	J	07/12/2023	1851
7440-62-2	Vanadium	23		07/12/2023	1851
7440-66-6	Zinc	91		07/12/2023	1851

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F75

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-21

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.18	J	07/12/2023	1854
7440-38-2	Arsenic	2.9		07/12/2023	1854
7440-39-3	Barium	130		07/12/2023	1854
7440-41-7	Beryllium	0.52		07/12/2023	1854
7440-43-9	Cadmium	0.18	J	07/12/2023	1854
7440-47-3	Chromium	5.7		07/12/2023	1854
7440-48-4	Cobalt	3.2		07/12/2023	1854
7440-50-8	Copper	8.1		07/12/2023	1854
7439-92-1	Lead	12		07/12/2023	1854
7439-96-5	Manganese	230		07/12/2023	1854
7440-02-0	Nickel	5.1		07/12/2023	1854
7782-49-2	Selenium	0.35	J	07/12/2023	1854
7440-22-4	Silver	0.047	J	07/12/2023	1854
7440-28-0	Thallium	0.14	J	07/12/2023	1854
7440-62-2	Vanadium	18		07/12/2023	1854
7440-66-6	Zinc	54		07/12/2023	1854

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F76

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F51

Matrix: SOIL Lab Sample ID: O3448-22

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.17	J	07/12/2023	1856
7440-38-2	Arsenic	2.9		07/12/2023	1856
7440-39-3	Barium	170		07/12/2023	1856
7440-41-7	Beryllium	0.84		07/12/2023	1856
7440-43-9	Cadmium	0.34	J	07/12/2023	1856
7440-47-3	Chromium	6.5		07/12/2023	1856
7440-48-4	Cobalt	5.6		07/12/2023	1856
7440-50-8	Copper	13		07/12/2023	1856
7439-92-1	Lead	14		07/12/2023	1856
7439-96-5	Manganese	340		07/12/2023	1856
7440-02-0	Nickel	5.9		07/12/2023	1856
7782-49-2	Selenium	0.34	J	07/12/2023	1856
7440-22-4	Silver	0.083	J	07/12/2023	1856
7440-28-0	Thallium	0.19	J	07/12/2023	1856
7440-62-2	Vanadium	24		07/12/2023	1856
7440-66-6	Zinc	63		07/12/2023	1856

NOTE: Hardness (total) is reported in mg/L

Comments:

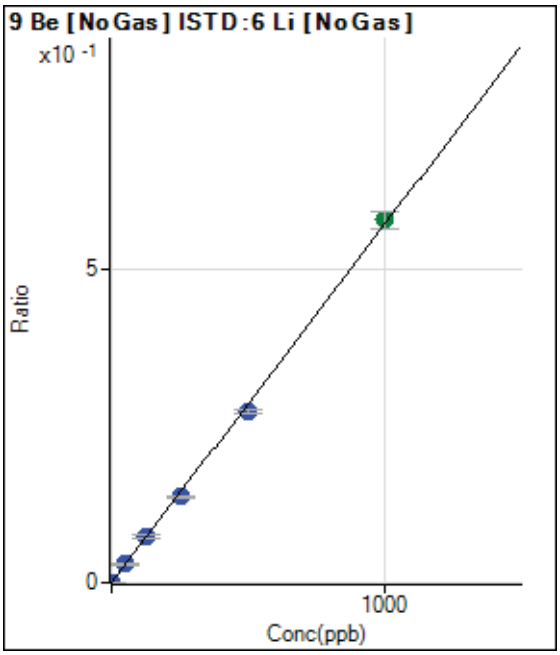
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

Calibration for 160AREF.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071223 MS.b\
Analysis File: P8071223 MS.batch.bin
DA Date-Time: 2023-07-13 00:23:33
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-07-12 12:09:14
2	005CALS.d	S02	2023-07-12 12:12:16
3	006CALS.d	S03	2023-07-12 12:15:20
4	007CALS.d	S04	2023-07-12 12:18:18
5	008CALS.d	S05	2023-07-12 12:21:19
6	009CALS.d	S06	2023-07-12 12:24:17
7	010CALS.d	S07	2023-07-12 12:27:18
8	011CALS.d	S08	2023-07-12 12:30:16

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	27.50	0.0000	P	16.3
2		1.000	0.988	1510.31	0.0006	P	1.8
3		50.000	51.041	72184.15	0.0292	P	4.5
4		125.000	129.205	170713.20	0.0739	P	8.5
5		250.000	239.879	320875.91	0.1371	P	0.9
6		500.000	476.986	610456.96	0.2726	P	2.5
7		1000.000	1013.460	1229631.46	0.5793	A	4.8
8				262.47	0.0001	P	13.9

y = 5.7157E-004 * x + 1.0563E-005

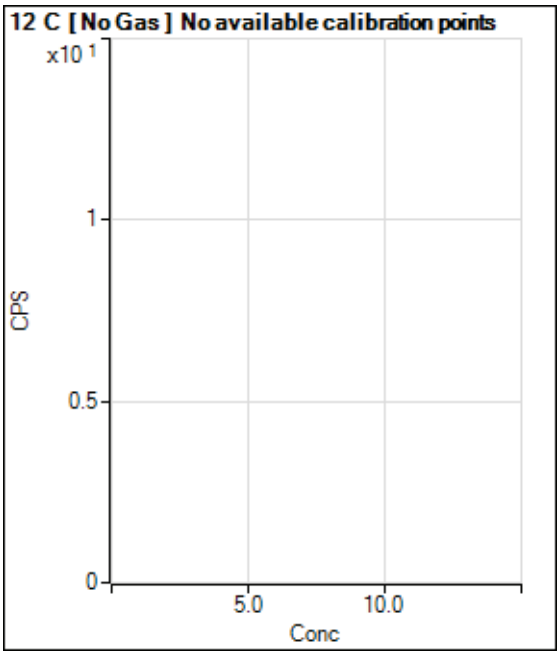
R = 0.9995

DL = 0.009038

BEC = 0.01848

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2342645.15		A	1.2
2				2315175.66		A	1.2
3				2528228.73		A	1.4
4				2481670.78		A	0.2
5				2385645.65		A	1.4
6				2442886.55		A	1.1
7				2508340.38		A	3.1
8				2363346.88		A	3.0

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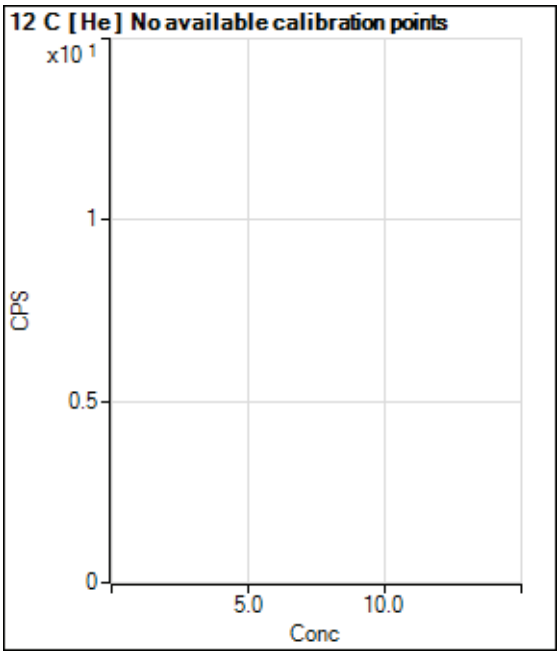
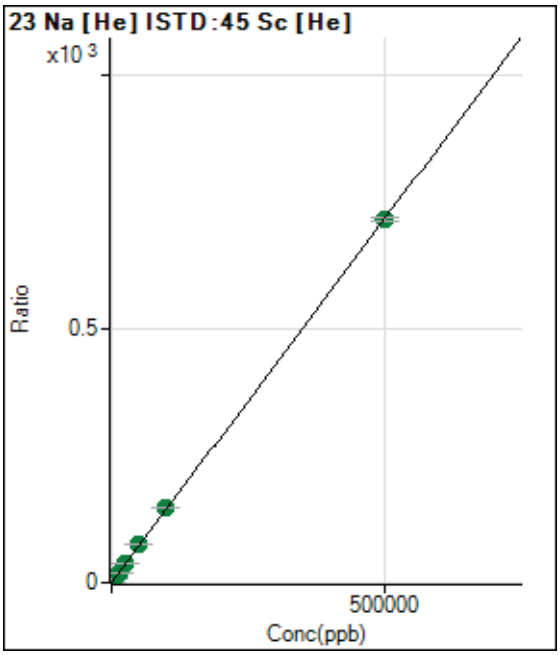
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				29591.46		P	3.4
2				29443.98		P	1.5
3				31178.06		P	0.8
4				30810.79		P	1.6
5				30621.29		P	1.4
6				32428.01		P	0.3
7				34680.43		P	3.9
8				34847.47		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	20353.51	0.1367	P	2.0
2		500.000	484.701	121660.68	0.8302	P	1.7
3		5000.000	5576.341	1136230.87	8.1148	A	1.6
4		12500.000	13568.820	2629601.60	19.5497	A	0.6
5		25000.000	25734.071	4921470.64	36.9546	A	4.9
6		50000.000	53378.812	9917915.06	76.5060	A	1.4
7		100000.00	103501.81	19873362.42	148.2173	A	1.4
8		500000.00	498892.58	95545543.11	713.9047	A	0.9

y = 0.0014 * x + 0.1367
R = 1.0000
DL = 5.722
BEC = 95.56

Weight: <None>
Min Conc: 0

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On:7/14/2023 8:48:56 AM
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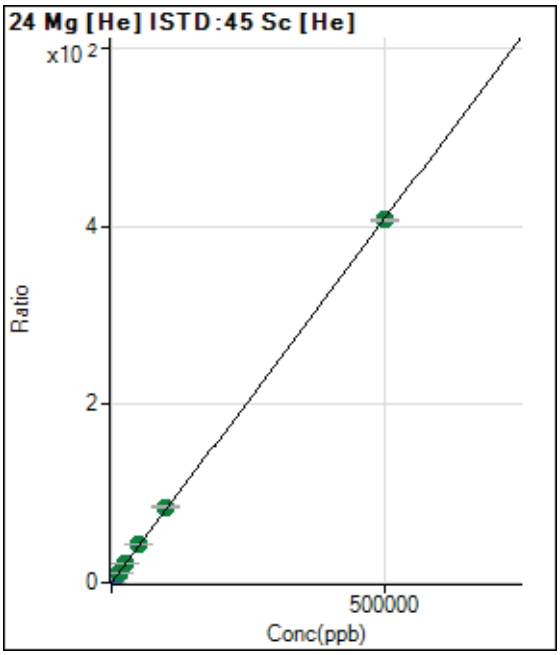
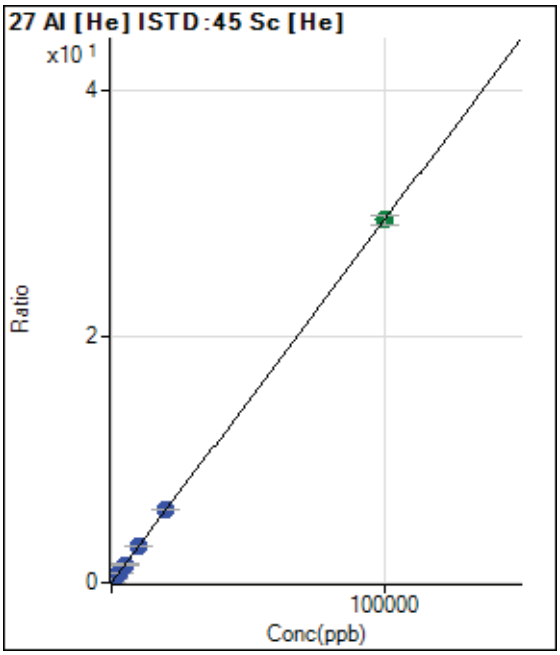


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.00	0.0005	P	68.2
2		500.000	480.583	57528.53	0.3926	P	2.1
3		5000.000	5371.637	613639.56	4.3826	P	1.8
4		12500.000	13767.603	1510656.59	11.2320	A	1.7
5		25000.000	26085.991	2834248.85	21.2812	A	4.7
6		50000.000	52833.024	5587332.41	43.1013	A	1.8
7		100000.00	103692.44	11342111.97	84.5920	A	1.6
8		500000.00	498888.52	54470326.91	406.9897	A	0.3

y = 8.1579E-004 * x + 5.0506E-004
R = 1.0000
DL = 1.266
BEC = 0.6191

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	102.91	0.0007	P	3.2
2		20.000	19.313	934.92	0.0064	P	1.8
3		1000.000	1054.996	43589.33	0.3113	P	0.6
4		2500.000	2578.388	102196.62	0.7598	P	1.2
5		5000.000	4926.850	193268.65	1.4512	P	4.8
6		10000.000	10180.422	388642.18	2.9979	P	0.8
7		20000.000	19935.137	787093.98	5.8699	P	0.6
8		100000.00	99996.078	3939917.36	29.4408	A	2.5

y = 2.9441E-004 * x + 6.9131E-004
R = 1.0000
DL = 0.2261
BEC = 2.348

Weight: <None>
Min Conc: 0

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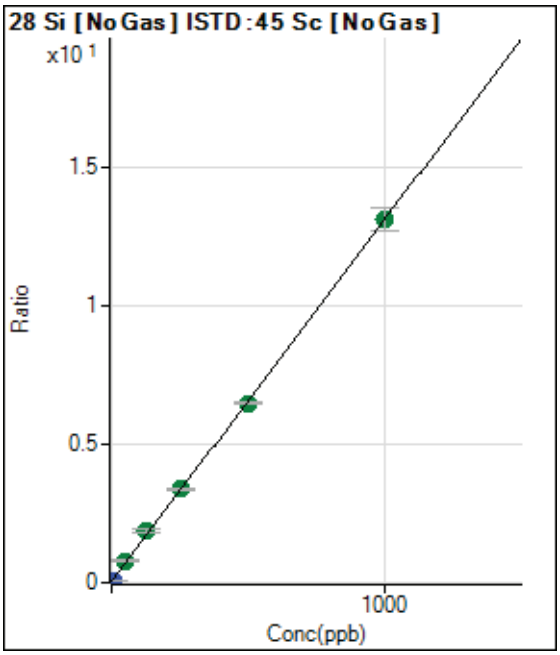
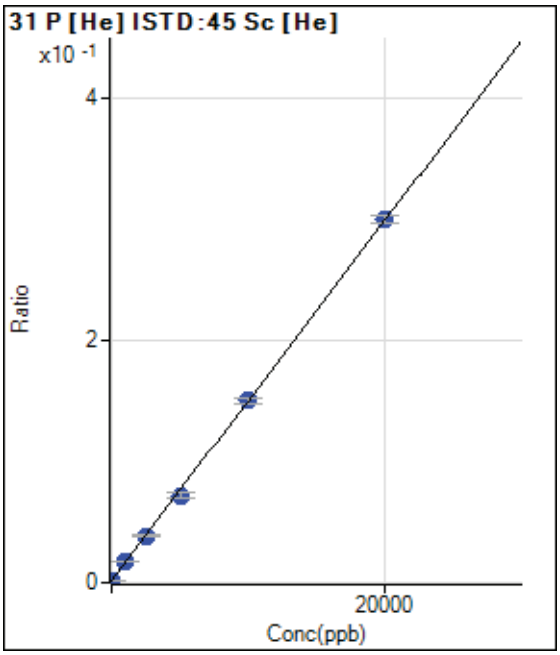


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	176439.60	0.0405	P	0.7
2		10.000	0.661	210875.84	0.0492	P	1.8
3		50.000	56.832	3120866.80	0.7825	A	7.5
4		125.000	138.468	7019926.46	1.8483	A	8.1
5		250.000	256.169	13285599.60	3.3849	A	2.5
6		500.000	493.679	25324063.93	6.4857	A	0.5
7		1000.000	999.686	49579840.35	13.0918	A	6.2
8				759609.40	0.2106	P	16.5

y = 0.0131 * x + 0.0405
R = 0.9998
DL = 0.06132
BEC = 3.104

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-8.137	252.78	0.0017	P	29.5
2		0.000	8.137	283.34	0.0019	P	21.0
3		1000.000	1032.698	2400.27	0.0171	P	1.4
4		2500.000	2457.693	5148.26	0.0383	P	4.0
5		5000.000	4726.797	9581.21	0.0720	P	5.2
6		10000.000	10017.075	19502.43	0.1504	P	3.2
7		20000.000	20063.417	40158.93	0.2995	P	2.3
8				216.67	0.0016	P	19.5

y = 1.4838E-005 * x + 0.0018
R = 0.9999
DL = 91.59
BEC = 122.5

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
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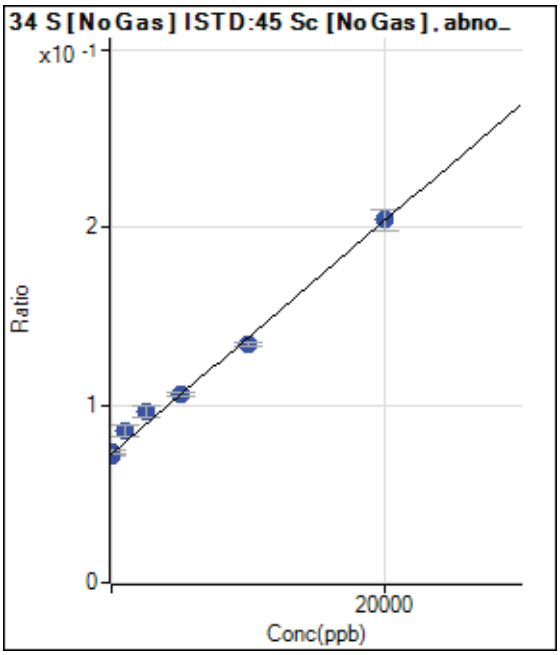
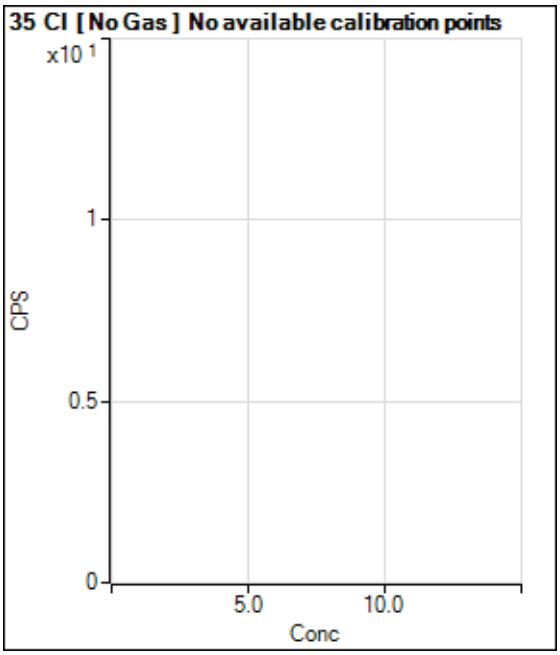


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-142.033	312135.98	0.0717	P	1.0
2		0.000	142.033	315554.01	0.0736	P	2.3
3		1000.000	1965.609	341180.05	0.0855	P	7.1
4		2500.000	3631.464	366698.86	0.0965	P	6.2
5		5000.000	5137.690	417461.67	0.1064	P	2.2
6		10000.000	9423.765	525094.67	0.1345	P	1.2
7		20000.000	20063.982	773992.49	0.2044	P	6.0
8				273045.24	0.0755	P	7.1

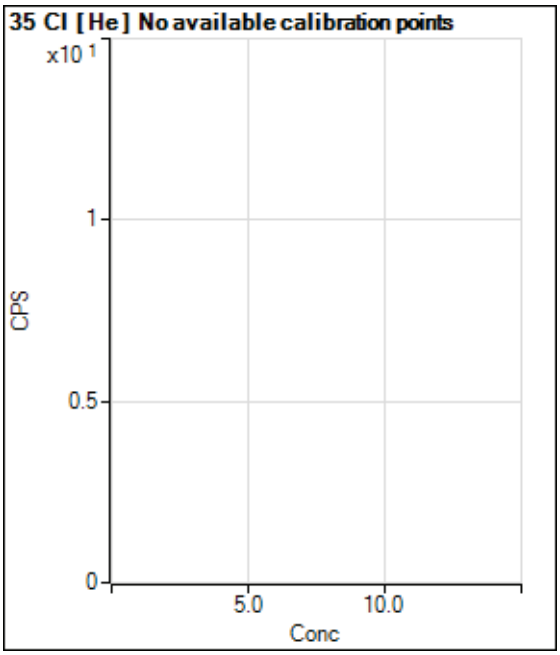
y = 6.5659E-006 * x + 0.0726
R = 0.9969
DL = 563.2
BEC = 1.106E+04

Weight: <None>
Min Conc: 0

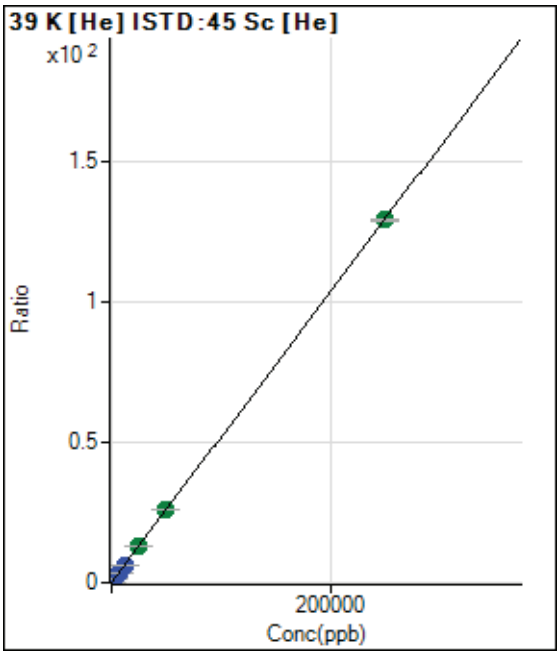


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				92860.89		P	3.3
2				95105.90		P	2.9
3				136610.42		P	1.0
4				131409.75		P	1.1
5				124916.40		P	0.1
6				122636.51		P	1.8
7				122238.72		P	1.7
8				136391.31		P	2.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				705.59		P	9.5
2				716.71		P	9.3
3				1044.52		P	15.4
4				933.39		P	11.8
5				952.83		P	15.8
6				850.05		P	8.5
7				986.18		P	14.0
8				1152.86		P	10.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	10262.29	0.0689	P	1.0
2		500.000	461.927	45157.58	0.3081	P	1.6
3		2500.000	2533.612	193324.52	1.3806	P	0.8
4		6250.000	6186.305	440058.14	3.2717	P	2.0
5		12500.000	11769.699	820863.53	6.1623	P	3.9
6		25000.000	25372.359	1711912.20	13.2046	A	1.8
7		50000.000	50424.732	3510249.12	26.1746	A	0.9
8		250000.00	249915.66	17325119.66	129.4540	A	0.8

y = 5.1771E-004 * x + 0.0689
R = 1.0000
DL = 4.044
BEC = 133.2

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
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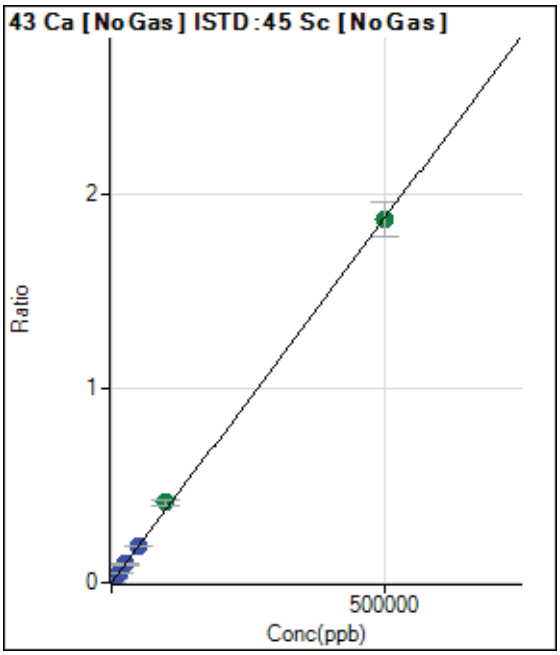

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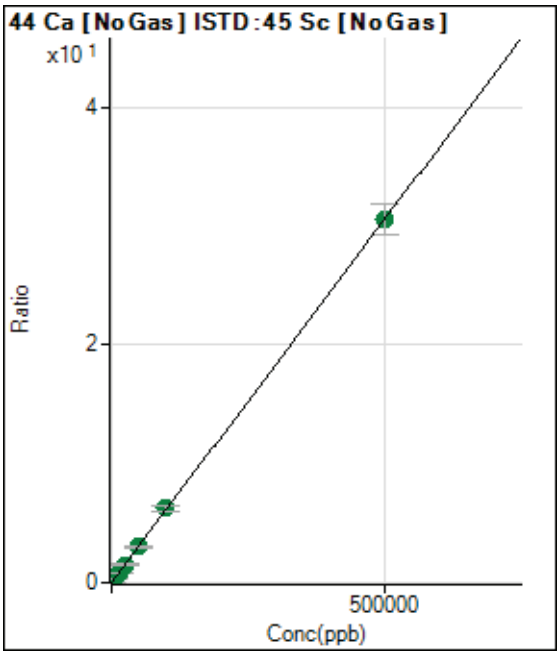
1		0.000	0.000	253.72	0.0001	P	3.7
2		500.000	432.127	7192.58	0.0017	P	3.4
3		5000.000	5468.159	81944.21	0.0205	P	6.7
4		12500.000	13663.418	194597.12	0.0512	P	8.1
5		25000.000	25147.023	369943.28	0.0942	P	2.0
6		50000.000	49372.763	722149.27	0.1850	P	2.2
7		100000.00	110031.79	1560345.02	0.4122	A	7.6
8		500000.00	498015.31	6736010.51	1.8654	A	9.4

y = 3.7455E-006 * x + 5.8285E-005
R = 0.9998
DL = 1.72
BEC = 15.56

Weight: <None>
Min Conc: 0

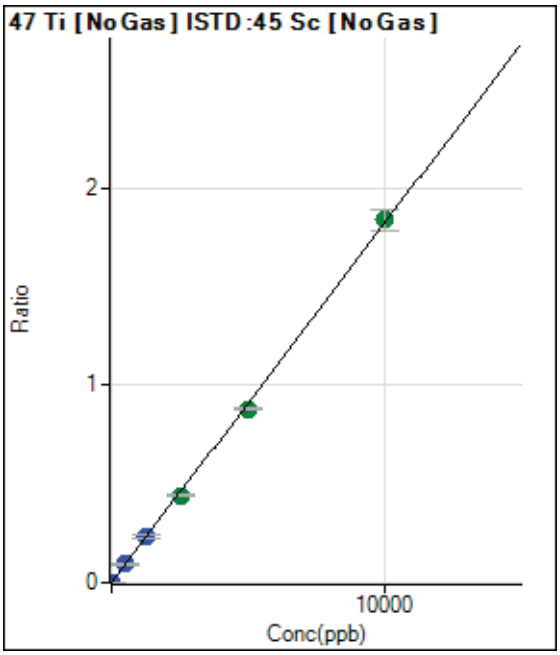


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	28454.41	0.0065	P	1.1
2		500.000	436.588	142327.06	0.0332	P	2.8
3		5000.000	5378.982	1336026.05	0.3348	A	6.2
4		12500.000	13409.951	3133769.30	0.8249	A	7.8
5		25000.000	24830.132	5973834.85	1.5218	A	1.9
6		50000.000	49487.637	11814656.83	3.0266	A	2.6
7		100000.00	102022.80	23600225.42	6.2326	A	6.7
8		500000.00	499628.69	110160001.0	30.4969	A	8.6

y = 6.1026E-005 * x + 0.0065
R = 1.0000
DL = 3.611
BEC = 107.1

Weight: <None>
Min Conc: 0

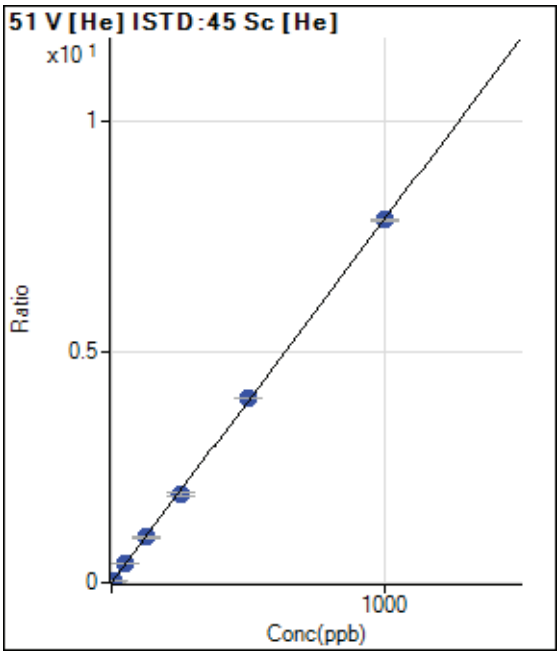
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	175.00	0.0000	P	20.3
2		5.000	4.483	3672.79	0.0009	P	1.4
3		500.000	512.003	371899.76	0.0932	P	6.1
4		1250.000	1291.335	892745.15	0.2350	P	7.6
5		2500.000	2425.947	1732609.85	0.4414	A	2.6
6		5000.000	4834.709	3434062.88	0.8796	A	1.8
7		10000.000	10095.392	6956230.54	1.8368	A	6.1
8				1897.54	0.0005	P	25.2

y = 1.8194E-004 * x + 4.0253E-005
R = 0.9997
DL = 0.1346
BEC = 0.2212

Weight: <None>
Min Conc: 0

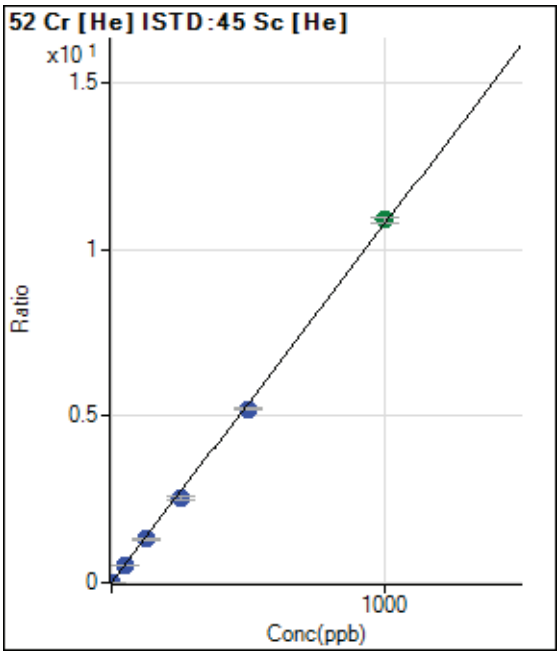


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.78	0.0001	P	29.2
2		5.000	4.719	5466.65	0.0373	P	2.5
3		50.000	51.464	56796.67	0.4056	P	1.7
4		125.000	125.873	133415.73	0.9919	P	2.7
5		250.000	243.276	255284.44	1.9170	P	5.0
6		500.000	506.333	517232.80	3.9898	P	0.0
7		1000.000	998.334	1054808.79	7.8665	P	0.8
8				374.45	0.0028	P	9.0

y = 0.0079 * x + 1.1955E-004
R = 0.9999
DL = 0.01331
BEC = 0.01517

Weight: <None>
Min Conc: 0

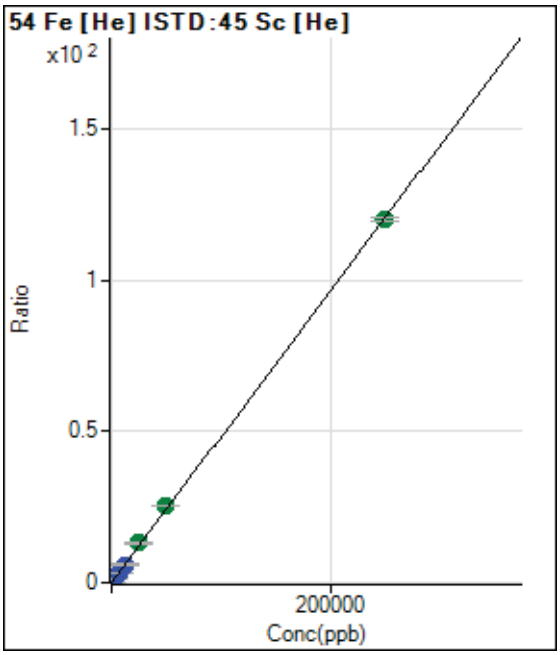
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1118.94	0.0075	P	9.7
2		2.000	1.921	4127.31	0.0282	P	1.2
3		50.000	49.532	75570.68	0.5397	P	2.2
4		125.000	120.875	175715.62	1.3063	P	2.0
5		250.000	233.952	335781.26	2.5214	P	4.8
6		500.000	485.060	676653.93	5.2195	P	0.2
7		1000.000	1012.021	1459095.62	10.8818	A	1.8
8				8626.01	0.0645	P	2.3

y = 0.0107 * x + 0.0075
R = 0.9997
DL = 0.2034
BEC = 0.6998

Weight: <None>
Min Conc: 0

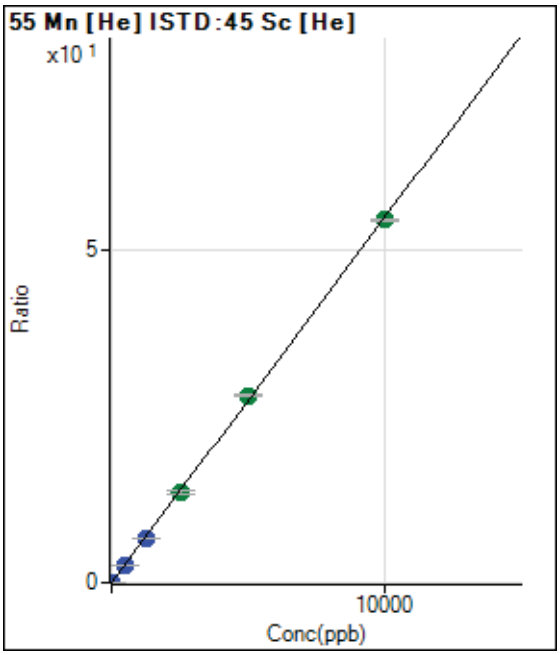


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	357.42	0.0024	P	11.6
2		50.000	49.879	3867.26	0.0264	P	4.2
3		2500.000	2599.697	175449.70	1.2531	P	1.7
4		6250.000	6472.075	419110.56	3.1160	P	1.4
5		12500.000	12386.491	793936.68	5.9613	P	4.6
6		25000.000	27210.446	1697366.40	13.0928	A	1.2
7		50000.000	52569.437	3391448.60	25.2925	A	1.0
8		250000.00	249264.19	16049717.60	119.9183	A	0.9

y = 4.8108E-004 * x + 0.0024
R = 0.9999
DL = 1.735
BEC = 4.99

Weight: <None>
Min Conc: 0

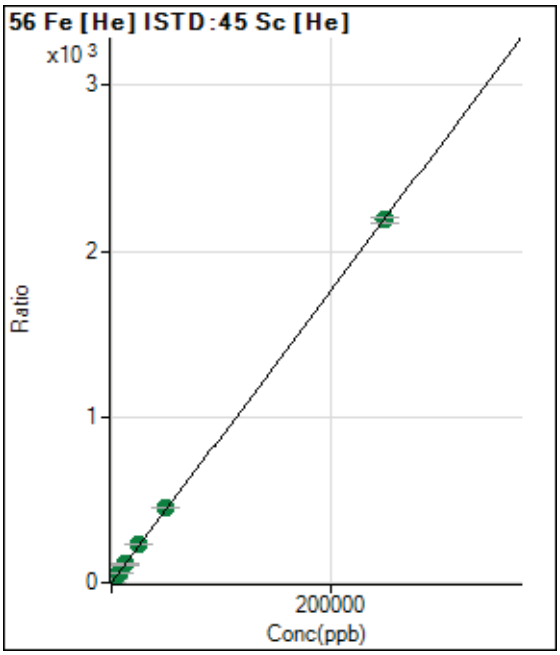
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	43.33	0.0003	P	27.4
2		1.000	0.911	773.36	0.0053	P	6.3
3		500.000	496.242	380129.22	2.7148	P	1.6
4		1250.000	1218.768	896747.82	6.6672	P	1.8
5		2500.000	2479.645	1806531.14	13.5644	A	5.0
6		5000.000	5135.452	3641977.27	28.0922	A	1.4
7		10000.000	9941.455	7292849.34	54.3819	A	0.5
8				5393.30	0.0403	P	1.4

y = 0.0055 * x + 2.9084E-004
R = 0.9999
DL = 0.04366
BEC = 0.05317

Weight: <None>
Min Conc: 0

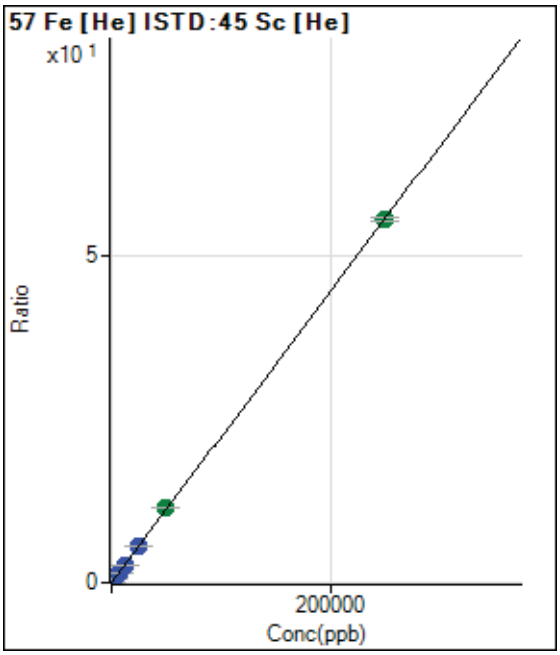


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2748.46	0.0185	P	1.6
2		50.000	48.086	64512.12	0.4402	P	2.0
3		2500.000	2721.331	3344776.52	23.8871	A	0.8
4		6250.000	6653.382	7851581.48	58.3750	A	1.2
5		12500.000	12763.257	14914576.49	111.9644	A	3.9
6		25000.000	26266.094	29867877.98	230.3971	A	1.0
7		50000.000	51507.907	60582020.80	451.7918	A	2.0
8		250000.00	249546.34	292932439.8	2,188.777	A	1.5

y = 0.0088 * x + 0.0185
R = 1.0000
DL = 0.09814
BEC = 2.105

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	120.37	0.0008	P	30.6
2		50.000	46.777	1646.42	0.0112	P	4.7
3		2500.000	2552.326	79748.26	0.5696	P	2.3
4		6250.000	6306.192	189130.31	1.4060	P	1.4
5		12500.000	12080.754	358579.58	2.6928	P	5.2
6		25000.000	25129.953	726052.24	5.6006	P	0.6
7		50000.000	51912.531	1551287.06	11.5686	A	0.8
8		250000.00	249623.53	7444441.37	55.6251	A	1.1

y = 2.2283E-004 * x + 8.0953E-004

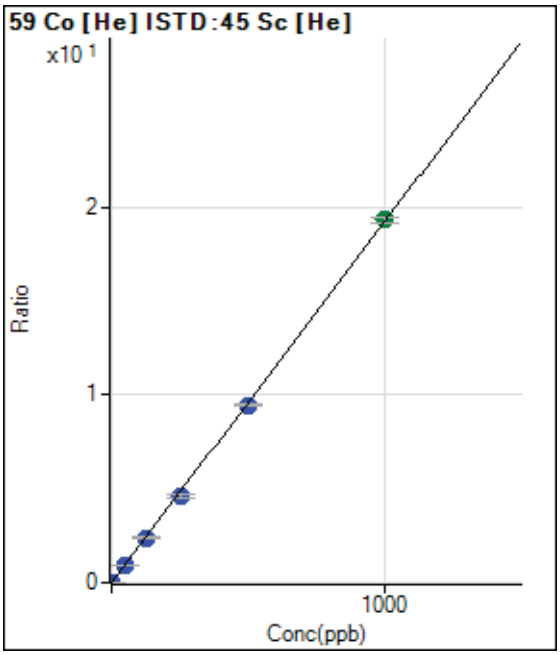
R = 1.0000

DL = 3.331

BEC = 3.633

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	51.11	0.0003	P	20.5
2		1.000	0.957	2744.74	0.0187	P	0.5
3		50.000	50.154	134951.06	0.9638	P	1.6
4		125.000	125.227	323597.15	2.4059	P	1.5
5		250.000	239.192	611853.25	4.5951	P	5.4
6		500.000	493.158	1228150.57	9.4736	P	0.6
7		1000.000	1006.087	2591334.82	19.3266	A	1.9
8				6103.58	0.0456	P	0.6

y = 0.0192 * x + 3.4311E-004

R = 0.9999

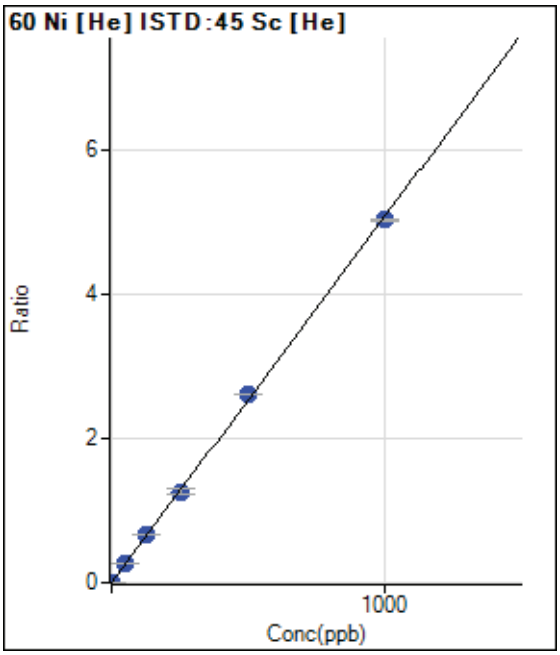
DL = 0.01096

BEC = 0.01786

Weight: <None>

Min Conc: 0

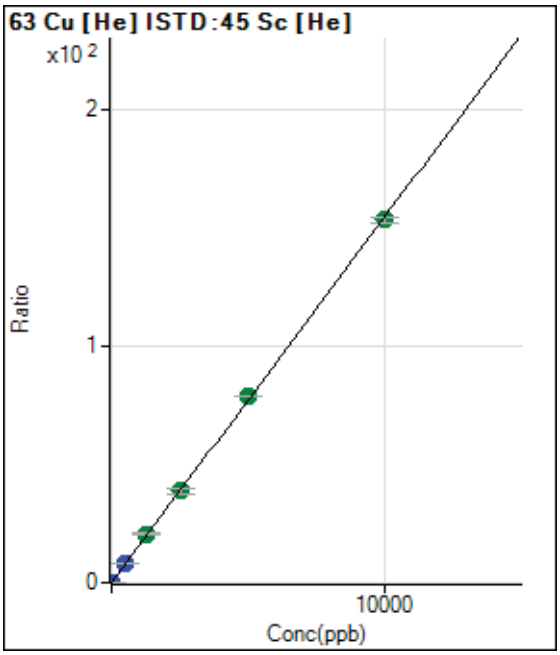
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	46.67	0.0003	P	19.1
2		1.000	1.108	870.04	0.0059	P	4.1
3		50.000	53.701	38209.02	0.2729	P	1.8
4		125.000	131.135	89563.16	0.6659	P	1.9
5		250.000	249.350	168566.02	1.2659	P	5.5
6		500.000	514.254	338421.53	2.6105	P	0.5
7		1000.000	992.083	675257.45	5.0359	P	0.7
8				3362.65	0.0251	P	3.2

y = 0.0051 * x + 3.1358E-004
R = 0.9998
DL = 0.03546
BEC = 0.06178

Weight: <None>
Min Conc: 0

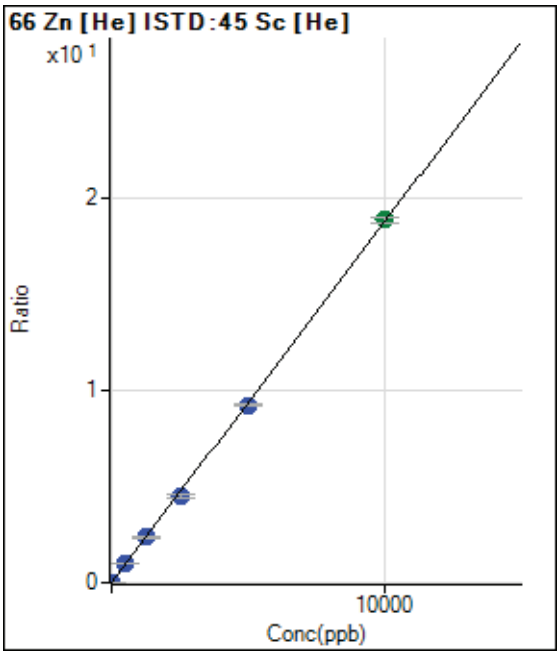


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	486.68	0.0033	P	13.6
2		2.000	1.866	4703.05	0.0321	P	2.1
3		500.000	506.527	1095803.45	7.8262	P	1.5
4		1250.000	1326.137	2755233.88	20.4844	A	3.2
5		2500.000	2503.925	5149760.38	38.6743	A	5.4
6		5000.000	5120.236	10251899.99	79.0811	A	0.3
7		10000.000	9929.057	20561382.75	153.3493	A	1.4
8				7277.51	0.0544	P	0.8

y = 0.0154 * x + 0.0033
R = 0.9999
DL = 0.08633
BEC = 0.2117

Weight: <None>
Min Conc: 0

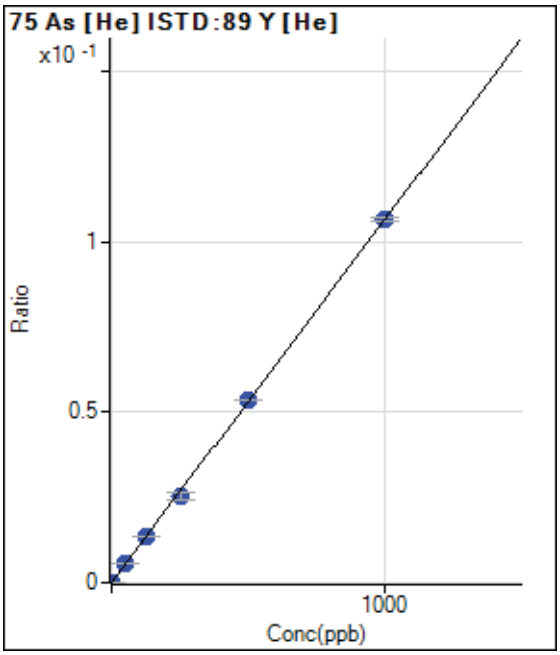
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	130.00	0.0009	P	3.1
2		2.000	2.231	741.13	0.0051	P	6.8
3		500.000	514.977	135465.48	0.9675	P	1.8
4		1250.000	1255.301	317041.67	2.3571	P	1.4
5		2500.000	2396.977	599312.34	4.5001	P	4.8
6		5000.000	4925.858	1198747.77	9.2469	P	0.4
7		10000.000	10061.415	2532381.87	18.8865	A	1.4
8				2828.08	0.0211	P	1.5

y = 0.0019 * x + 8.7341E-004
R = 0.9999
DL = 0.04371
BEC = 0.4653

Weight: <None>
Min Conc: 0

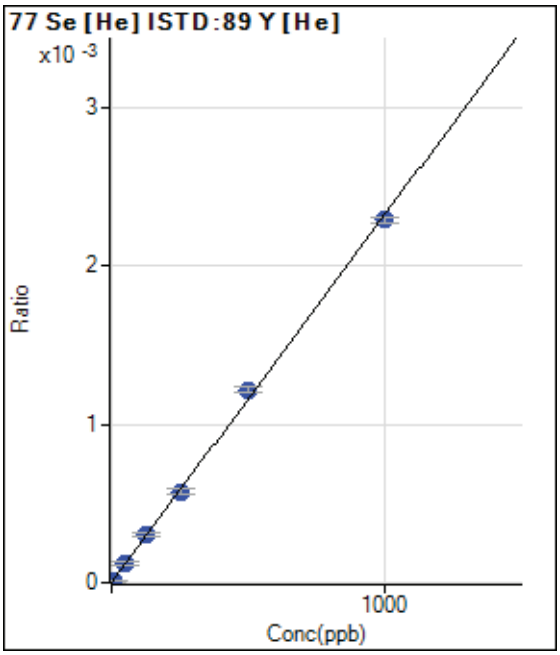


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.67	0.0000	P	91.9
2		1.000	1.052	145.35	0.0001	P	11.7
3		50.000	52.675	6876.38	0.0056	P	2.0
4		125.000	127.998	16015.34	0.0136	P	1.6
5		250.000	240.627	30547.58	0.0256	P	9.3
6		500.000	502.940	61851.86	0.0535	P	0.6
7		1000.000	1000.365	126555.21	0.1064	P	1.1
8				58.68	0.0000	P	22.7

y = 1.0633E-004 * x + 1.3078E-006
R = 0.9999
DL = 0.0339
BEC = 0.0123

Weight: <None>
Min Conc: 0

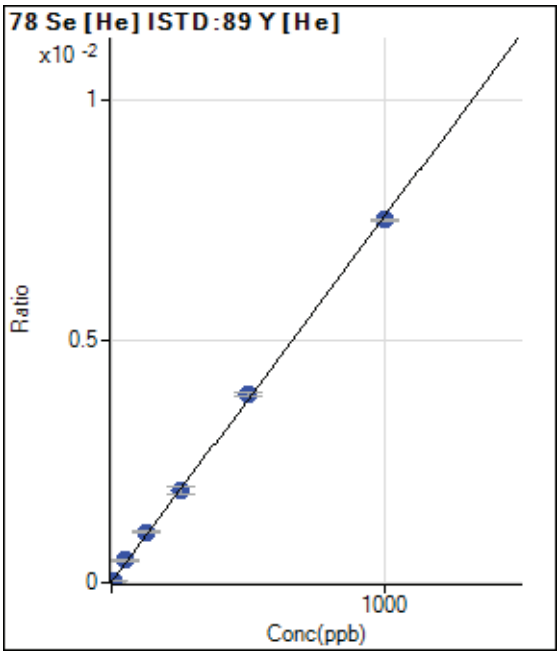
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.11	0.0000	P	173.
2		5.000	4.478	14.44	0.0000	P	35.8
3		50.000	52.489	151.12	0.0001	P	21.8
4		125.000	130.787	357.79	0.0003	P	10.8
5		250.000	247.575	687.80	0.0006	P	5.8
6		500.000	525.330	1410.09	0.0012	P	3.2
7		1000.000	987.096	2724.74	0.0023	P	1.3
8				13.33	0.0000	P	24.6

y = 2.3191E-006 * x + 8.7432E-007
R = 0.9995
DL = 1.959
BEC = 0.377

Weight: <None>
Min Conc: 0

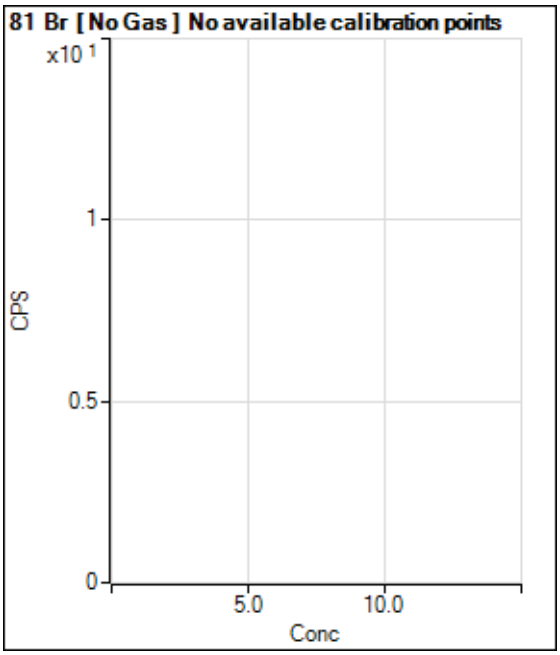


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14.33	0.0000	P	17.4
2		5.000	4.761	60.68	0.0000	P	18.3
3		50.000	59.240	563.74	0.0005	P	7.2
4		125.000	137.081	1234.18	0.0010	P	2.9
5		250.000	250.451	2277.42	0.0019	P	8.9
6		500.000	513.939	4512.85	0.0039	P	1.8
7		1000.000	990.947	8939.08	0.0075	P	0.6
8				69.68	0.0001	P	27.9

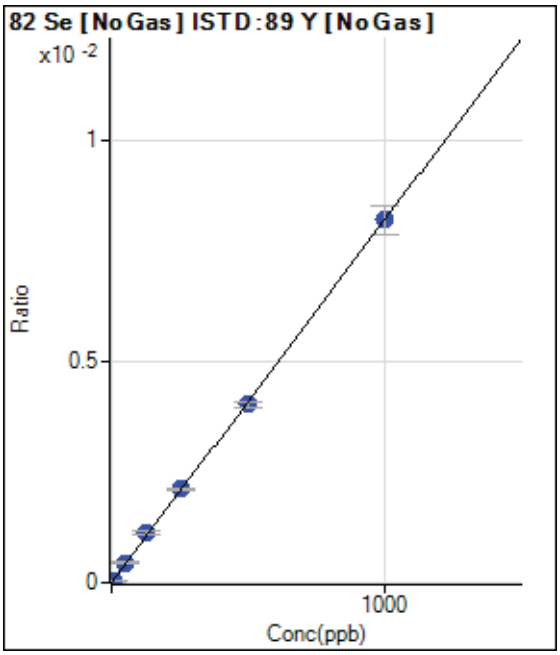
y = 7.5705E-006 * x + 1.1230E-005
R = 0.9998
DL = 0.7727
BEC = 1.483

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				4448.05		P	2.8
2				4359.13		P	4.5
3				4164.61		P	1.7
4				4006.24		P	4.2
5				3642.23		P	1.2
6				3442.18		P	6.4
7				3036.52		P	4.3
8				6890.81		P	16.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.91	0.0000	P	133.
2		5.000	4.764	480.38	0.0000	P	9.6
3		50.000	55.470	5059.55	0.0005	P	8.4
4		125.000	138.267	12061.39	0.0011	P	7.0
5		250.000	258.057	23293.85	0.0021	P	2.7
6		500.000	491.094	44487.68	0.0040	P	2.5
7		1000.000	1000.508	88921.33	0.0082	P	7.6
8				461.63	0.0000	P	11.5

y = 8.2046E-006 * x + 1.4905E-006

R = 0.9998

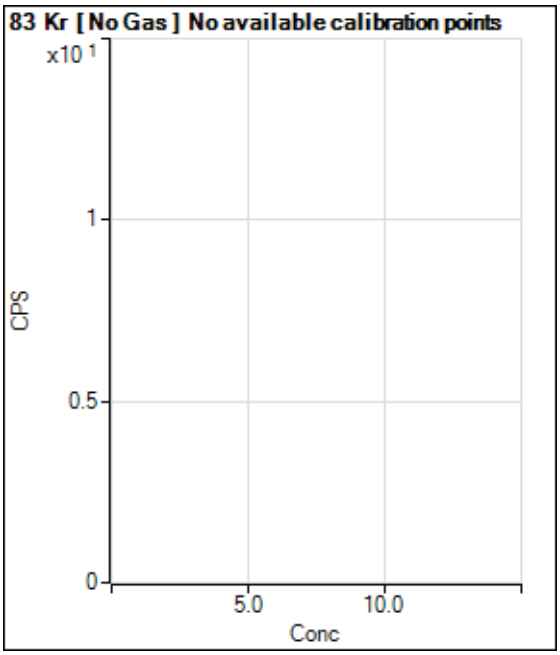
DL = 0.73

BEC = 0.1817

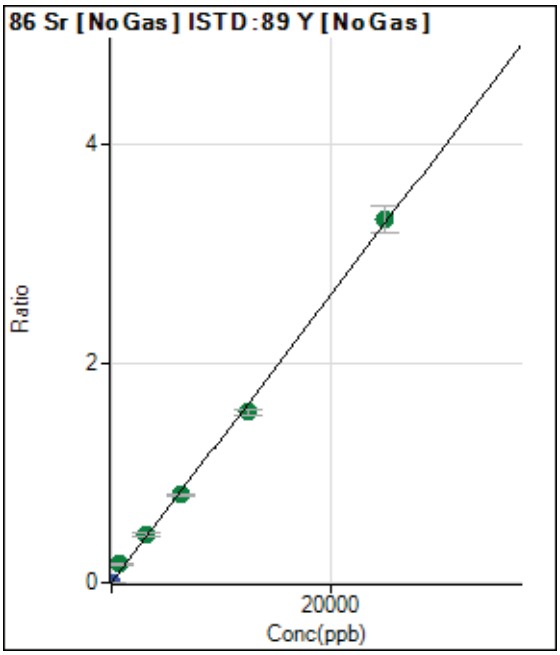
Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				230.39		P	11.8
2				244.97		P	5.4
3				244.97		P	1.4
4				238.30		P	1.1
5				247.47		P	8.9
6				231.22		P	2.5
7				232.47		P	4.6
8				236.22		P	7.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	450.02	0.0000	P	7.5
2		1.000	0.864	1775.16	0.0001	P	1.3
3		625.000	1300.834	1883127.97	0.1699	A	7.6
4		3125.000	3329.086	4613793.07	0.4349	A	8.8
5		6250.000	6125.626	8796843.42	0.8001	A	2.5
6		12500.000	11885.792	17132254.72	1.5525	A	3.3
7		25000.000	25295.791	35787979.96	3.3039	A	7.3
8				10237.76	0.0010	P	10.3

y = 1.3061E-004 * x + 3.7081E-005

R = 0.9991

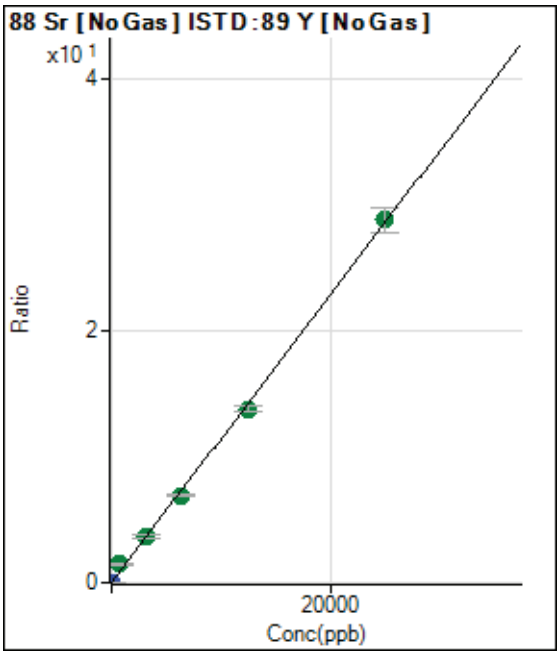
DL = 0.06414

BEC = 0.2839

Weight: <None>

Min Conc: 0

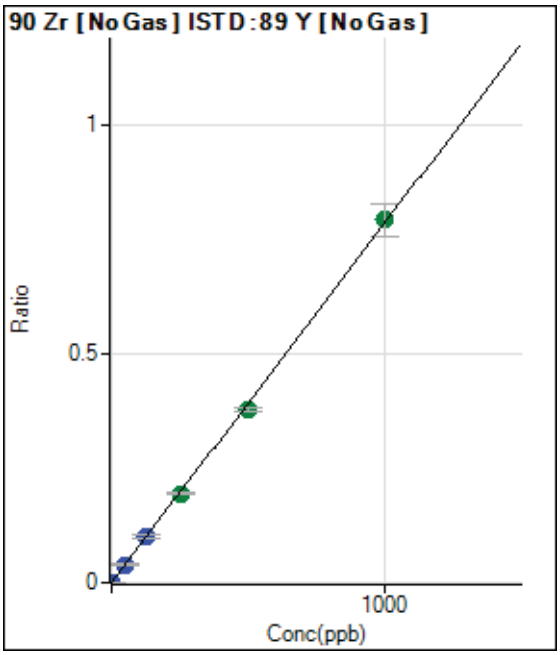
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	788.93	0.0001	P	21.7
2		1.000	0.904	12992.48	0.0011	P	3.6
3		625.000	1277.881	16171663.03	1.4592	A	7.5
4		3125.000	3234.830	39199335.95	3.6936	A	8.6
5		6250.000	6072.428	76217399.62	6.9336	A	3.6
6		12500.000	12049.721	151835599.2	13.7585	A	3.2
7		25000.000	25239.482	312222651.4	28.8187	A	6.9
8				75894.10	0.0072	P	16.8

y = 0.0011 * x + 6.4918E-005
R = 0.9993
DL = 0.03699
BEC = 0.05686

Weight: <None>
Min Conc: 0

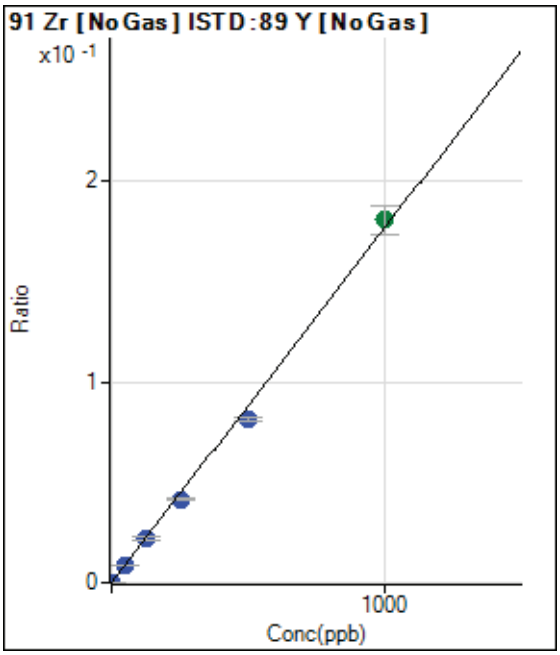


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	452.80	0.0000	P	3.3
2		1.000	0.802	7919.14	0.0007	P	9.3
3		50.000	49.731	434056.38	0.0392	P	6.9
4		125.000	126.812	1059009.83	0.0998	P	8.4
5		250.000	247.429	2140380.41	0.1947	A	2.4
6		500.000	481.359	4180522.06	0.3787	A	2.9
7		1000.000	1009.750	8598622.33	0.7943	A	8.8
8				5023.34	0.0005	P	8.1

y = 7.8663E-004 * x + 3.7318E-005
R = 0.9997
DL = 0.004753
BEC = 0.04744

Weight: <None>
Min Conc: 0

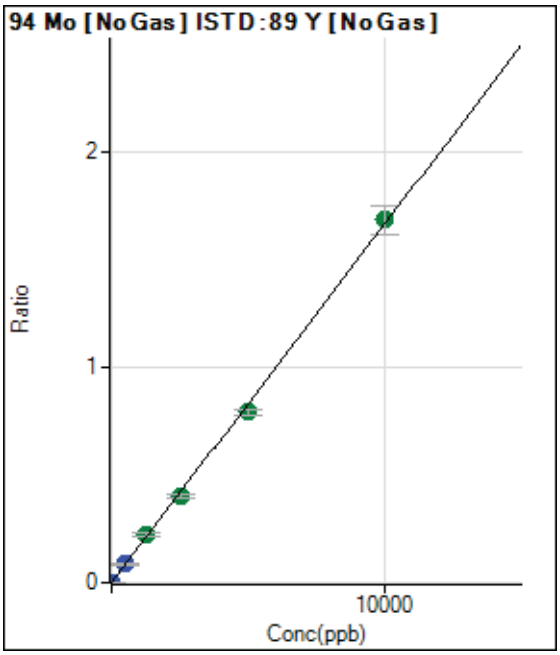
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.22	0.0000	P	57.1
2		1.000	0.816	1802.94	0.0002	P	7.4
3		50.000	49.482	96953.49	0.0088	P	8.0
4		125.000	125.772	236011.86	0.0222	P	7.6
5		250.000	234.074	454871.33	0.0414	P	1.9
6		500.000	460.982	899111.55	0.0815	P	2.5
7		1000.000	1023.420	1958471.09	0.1808	A	7.8
8				1166.76	0.0001	P	3.3

y = 1.7670E-004 * x + 8.0205E-006
R = 0.9987
DL = 0.07771
BEC = 0.04539

Weight: <None>
Min Conc: 0

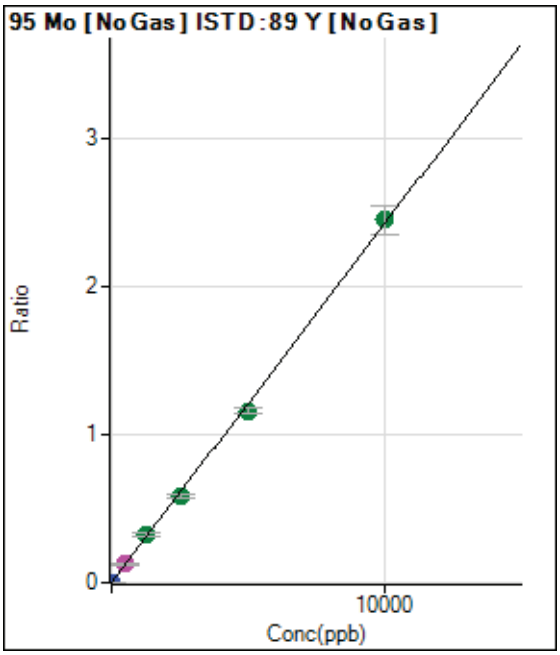


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.23	0.0000	P	39.3
2		5.000	5.135	10198.48	0.0009	P	3.1
3		500.000	514.489	947503.25	0.0855	P	7.6
4		1250.000	1338.814	2361455.72	0.2225	A	8.0
5		2500.000	2421.745	4424382.08	0.4025	A	3.2
6		5000.000	4765.724	8739875.11	0.7920	A	3.5
7		10000.000	10124.876	18219974.71	1.6826	A	8.0
8				7583.45	0.0007	P	12.0

y = 1.6618E-004 * x + 7.9901E-006
R = 0.9995
DL = 0.05667
BEC = 0.04808

Weight: <None>
Min Conc: 0

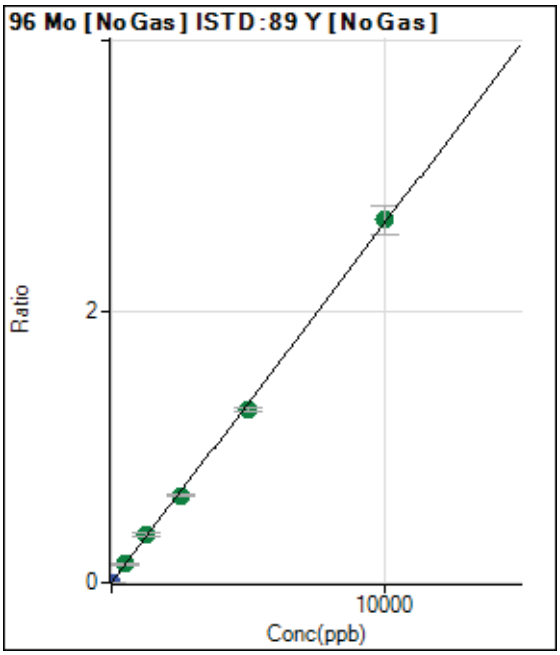
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	64.5
2		5.000	4.346	12492.05	0.0011	P	2.0
3		500.000	521.958	1402829.65	0.1265	M	5.9
4		1250.000	1331.530	3424512.99	0.3227	A	8.2
5		2500.000	2417.113	6439236.69	0.5857	A	3.1
6		5000.000	4793.704	12820952.98	1.1617	A	3.0
7		10000.000	10112.581	26540351.46	2.4506	A	7.8
8				9697.12	0.0009	P	7.1

y = 2.4233E-004 * x + 1.5982E-006
R = 0.9996
DL = 0.01275
BEC = 0.006595

Weight: <None>
Min Conc: 0

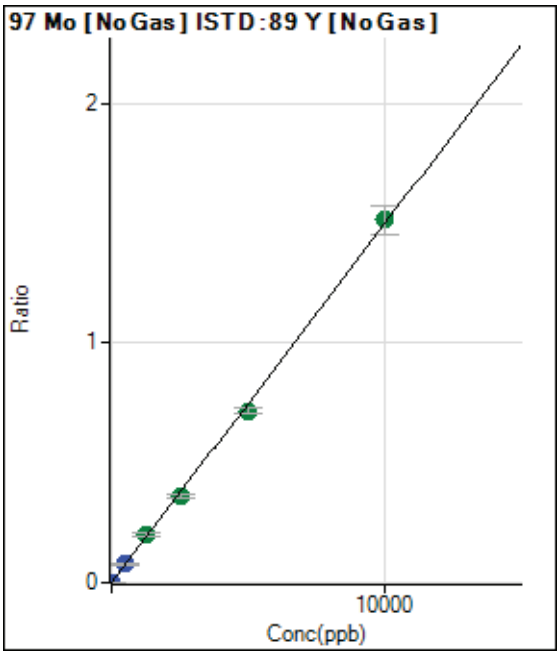


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	52.6
2		5.000	4.424	13951.80	0.0012	P	1.5
3		500.000	526.939	1546705.06	0.1396	A	7.5
4		1250.000	1331.101	3741091.10	0.3526	A	8.6
5		2500.000	2424.997	7061547.99	0.6423	A	2.6
6		5000.000	4813.106	14069251.88	1.2748	A	2.9
7		10000.000	10100.714	28974517.66	2.6753	A	7.7
8				11468.58	0.0011	P	8.8

y = 2.6486E-004 * x + 6.4040E-006
R = 0.9996
DL = 0.03812
BEC = 0.02418

Weight: <None>
Min Conc: 0

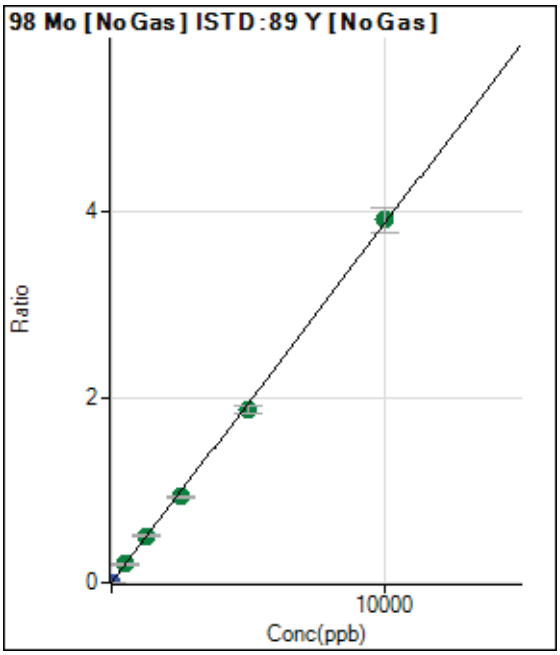
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	13.89	0.0000	P	173.
2		5.000	4.289	7618.97	0.0006	P	2.1
3		500.000	515.462	855123.19	0.0772	P	8.2
4		1250.000	1323.875	2103208.38	0.1983	A	9.0
5		2500.000	2413.645	3973036.85	0.3614	A	3.9
6		5000.000	4788.550	7914238.37	0.7171	A	2.9
7		10000.000	10117.307	16408439.60	1.5151	A	7.7
8				6179.89	0.0006	P	7.9

y = 1.4975E-004 * x + 1.1623E-006
R = 0.9996
DL = 0.04033
BEC = 0.007762

Weight: <None>
Min Conc: 0

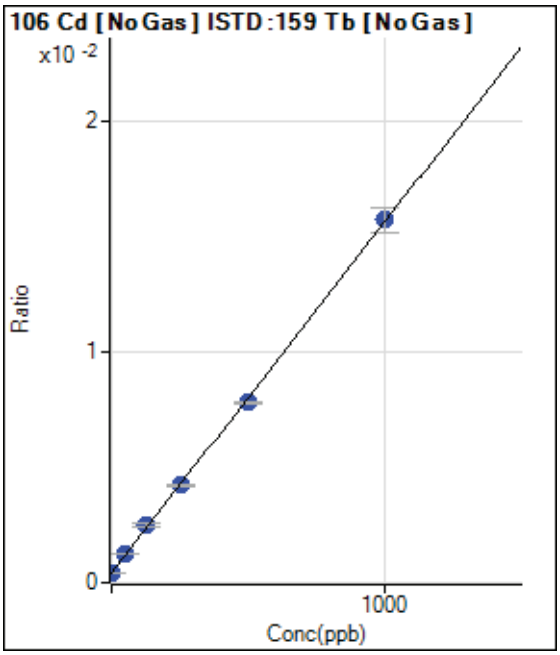


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	41.67	0.0000	P	52.7
2		5.000	4.403	20254.15	0.0017	P	3.8
3		500.000	524.856	2254053.00	0.2035	A	8.4
4		1250.000	1309.056	5387929.72	0.5075	A	7.6
5		2500.000	2399.565	10227669.85	0.9304	A	3.1
6		5000.000	4815.017	20600312.96	1.8669	A	3.8
7		10000.000	10108.976	42464659.98	3.9194	A	7.0
8				15731.31	0.0015	P	16.9

y = 3.8772E-004 * x + 3.4356E-006
R = 0.9996
DL = 0.01401
BEC = 0.008861

Weight: <None>
Min Conc: 0

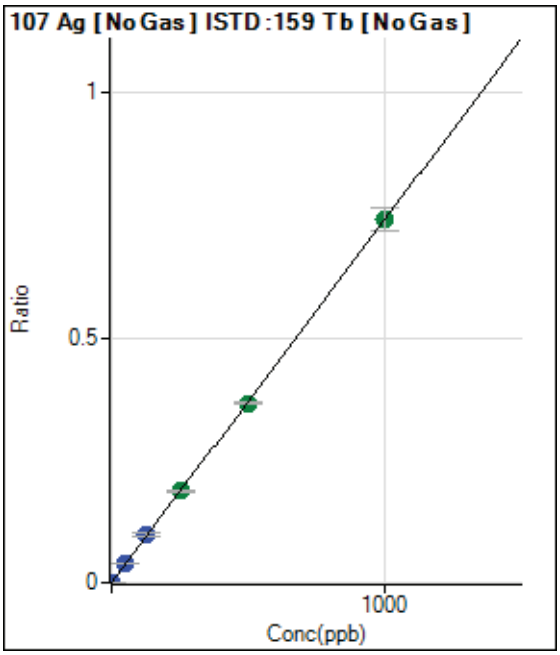
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	4056.27	0.0004	P	5.6
2		1.000	-0.389	4006.24	0.0004	P	8.5
3		50.000	51.945	10787.84	0.0012	P	2.3
4		125.000	137.207	21086.11	0.0025	P	7.8
5		250.000	249.627	36774.93	0.0042	P	1.9
6		500.000	484.423	68914.30	0.0078	P	1.8
7		1000.000	1006.260	136160.71	0.0157	P	6.9
8				3356.06	0.0004	P	4.0

y = 1.5172E-005 * x + 4.3926E-004
R = 0.9997
DL = 4.821
BEC = 28.95

Weight: <None>
Min Conc: 0

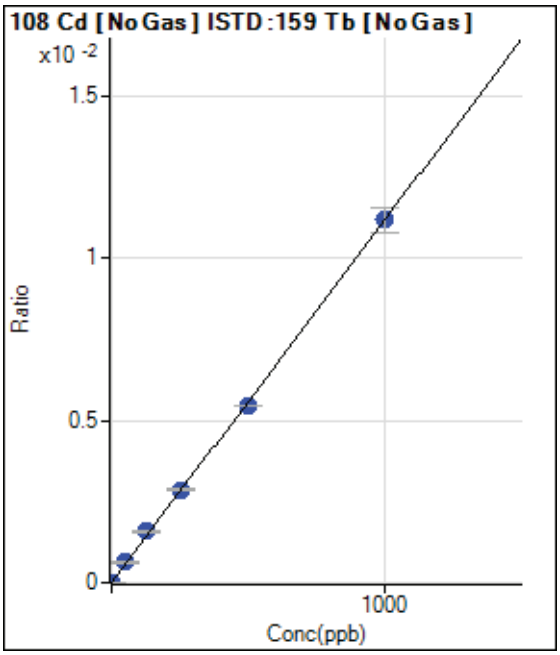


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	41.0
2		1.000	0.956	6621.19	0.0007	P	3.0
3		50.000	52.715	342870.51	0.0391	P	5.0
4		125.000	132.985	824751.23	0.0985	P	6.2
5		250.000	253.191	1632364.13	0.1876	A	2.2
6		500.000	495.488	3248248.51	0.3671	A	1.1
7		1000.000	1000.325	6426623.15	0.7412	A	6.4
8				1161.19	0.0001	P	17.4

y = 7.4091E-004 * x + 8.3755E-006
R = 0.9999
DL = 0.01392
BEC = 0.0113

Weight: <None>
Min Conc: 0

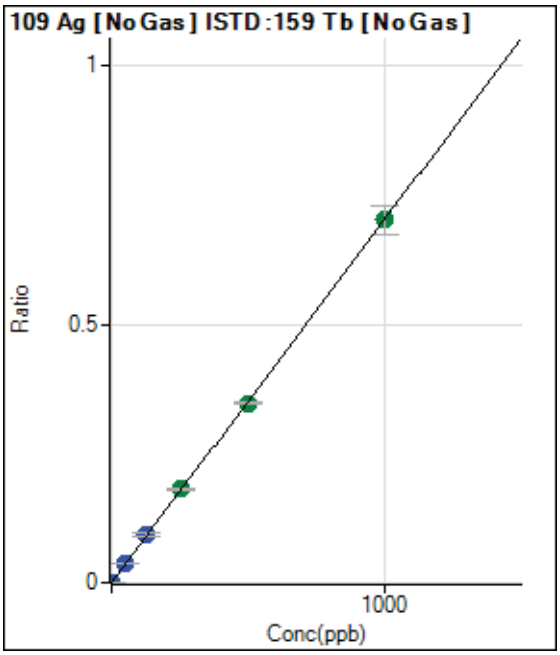
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	18.06	0.0000	P	13.9
2		1.000	0.981	119.45	0.0000	P	15.0
3		50.000	55.750	5478.93	0.0006	P	7.7
4		125.000	140.731	13178.68	0.0016	P	5.6
5		250.000	256.009	24900.42	0.0029	P	2.8
6		500.000	489.309	48387.62	0.0055	P	0.2
7		1000.000	1001.589	97036.29	0.0112	P	6.6
8				95.84	0.0000	P	7.8

y = 1.1172E-005 * x + 1.9565E-006
R = 0.9998
DL = 0.07316
BEC = 0.1751

Weight: <None>
Min Conc: 0

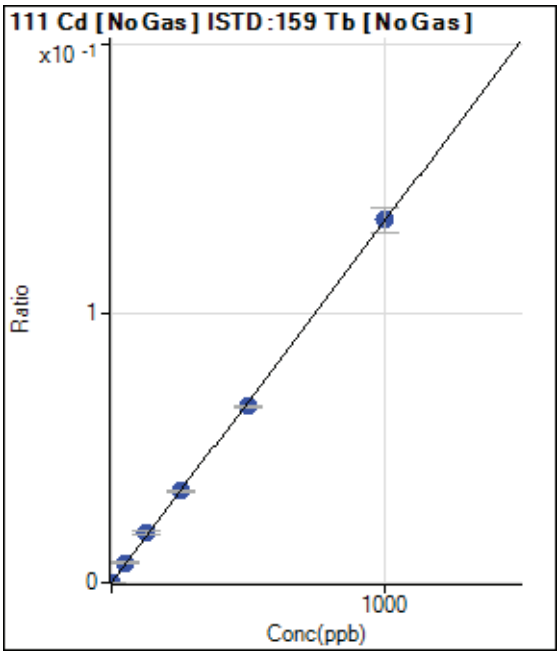


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	38.89	0.0000	P	33.3
2		1.000	0.934	6104.30	0.0007	P	2.9
3		50.000	52.232	321974.90	0.0367	P	6.6
4		125.000	133.677	785630.96	0.0939	P	8.1
5		250.000	258.033	1577344.48	0.1813	A	2.7
6		500.000	494.477	3074513.85	0.3475	A	0.8
7		1000.000	999.557	6086561.16	0.7024	A	8.1
8				1075.07	0.0001	P	10.0

y = 7.0267E-004 * x + 4.2142E-006
R = 0.9999
DL = 0.005998
BEC = 0.005997

Weight: <None>
Min Conc: 0

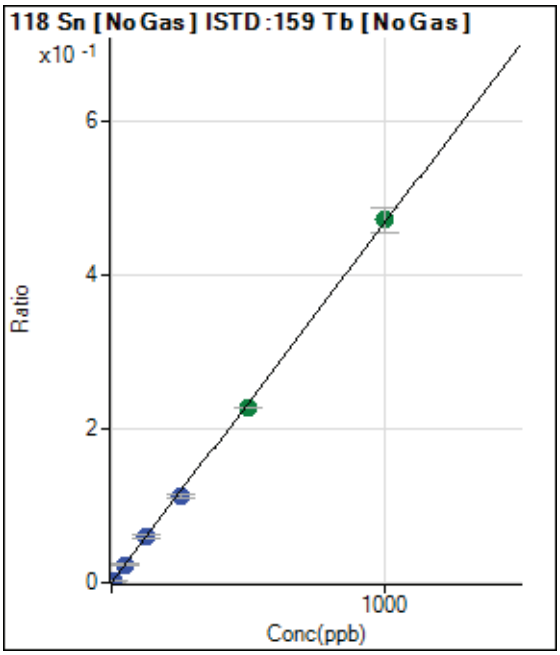
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	399.93	0.0000	P	4.8
2		1.000	0.910	1529.59	0.0002	P	5.0
3		50.000	54.070	64106.60	0.0073	P	5.5
4		125.000	138.137	155500.79	0.0186	P	8.5
5		250.000	253.951	297086.91	0.0341	P	2.6
6		500.000	487.127	579234.42	0.0655	P	1.1
7		1000.000	1003.603	1168861.51	0.1348	P	7.0
8				925.49	0.0001	P	5.3

y = 1.3430E-004 * x + 4.3302E-005
R = 0.9998
DL = 0.04613
BEC = 0.3224

Weight: <None>
Min Conc: 0

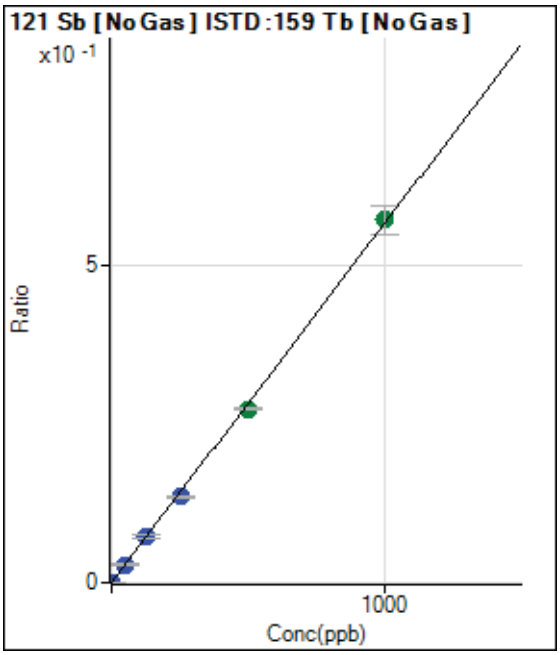


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1150.08	0.0001	P	5.9
2		5.000	4.367	19998.44	0.0022	P	1.4
3		50.000	50.468	207905.42	0.0237	P	6.2
4		125.000	128.767	503778.28	0.0603	P	9.7
5		250.000	241.551	982390.00	0.1130	P	4.1
6		500.000	485.149	2006356.34	0.2267	A	0.2
7		1000.000	1009.047	4087329.43	0.4715	A	6.9
8				3325.72	0.0004	P	1.0

y = 4.6711E-004 * x + 1.2451E-004
R = 0.9998
DL = 0.0468
BEC = 0.2666

Weight: <None>
Min Conc: 0

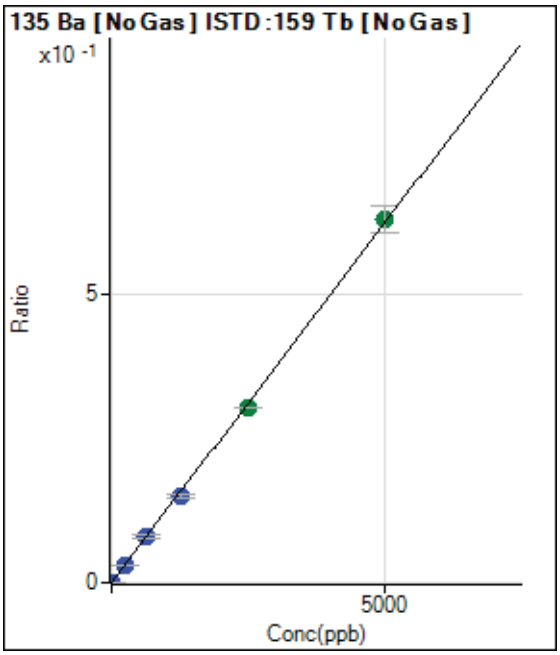
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	8.33	0.0000	P	98.7
2		2.000	1.772	9289.49	0.0010	P	4.4
3		50.000	49.584	246587.72	0.0281	P	6.8
4		125.000	127.626	605171.75	0.0724	P	8.2
5		250.000	239.823	1182853.35	0.1360	P	2.9
6		500.000	483.180	2423906.59	0.2740	A	1.1
7		1000.000	1010.647	4965539.91	0.5730	A	8.1
8				3156.07	0.0004	P	20.9

y = 5.6697E-004 * x + 8.9398E-007
R = 0.9997
DL = 0.004667
BEC = 0.001577

Weight: <None>
Min Conc: 0

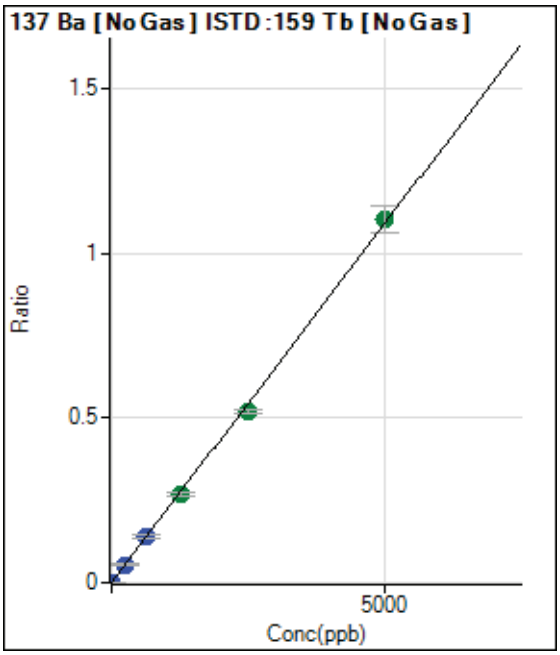


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.45	0.0000	P	8.7
2		10.000	8.678	10001.29	0.0011	P	3.8
3		250.000	246.750	269003.97	0.0306	P	4.8
4		625.000	638.835	663448.28	0.0793	P	8.4
5		1250.000	1205.523	1302285.81	0.1497	P	3.2
6		2500.000	2423.922	2663568.10	0.3010	A	0.1
7		5000.000	5047.594	5433437.58	0.6268	A	7.4
8				3792.41	0.0005	P	4.0

y = 1.2418E-004 * x + 4.8070E-006
R = 0.9998
DL = 0.01013
BEC = 0.03871

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	58.33	0.0000	P	15.6
2		10.000	9.221	18641.14	0.0020	P	6.2
3		250.000	249.862	478092.41	0.0545	P	5.4
4		625.000	645.538	1177185.99	0.1407	P	7.9
5		1250.000	1235.843	2343625.90	0.2694	A	3.5
6		2500.000	2391.120	4612181.27	0.5213	A	2.0
7		5000.000	5055.421	9553340.06	1.1022	A	7.5
8				6891.35	0.0008	P	6.7

y = 2.1802E-004 * x + 6.3265E-006

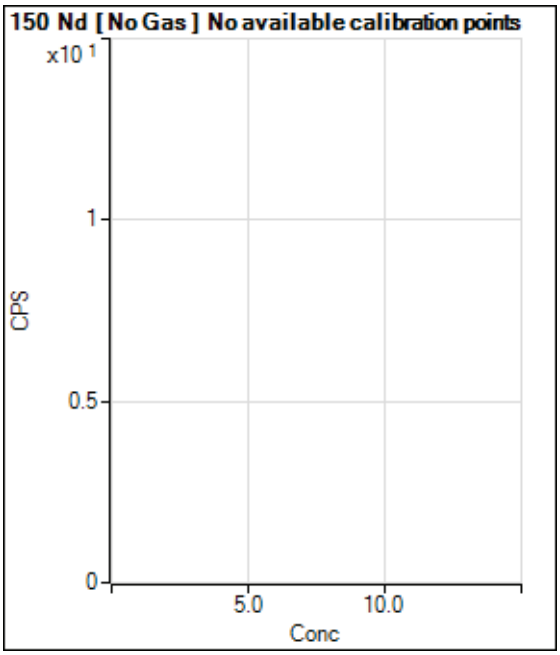
R = 0.9996

DL = 0.01361

BEC = 0.02902

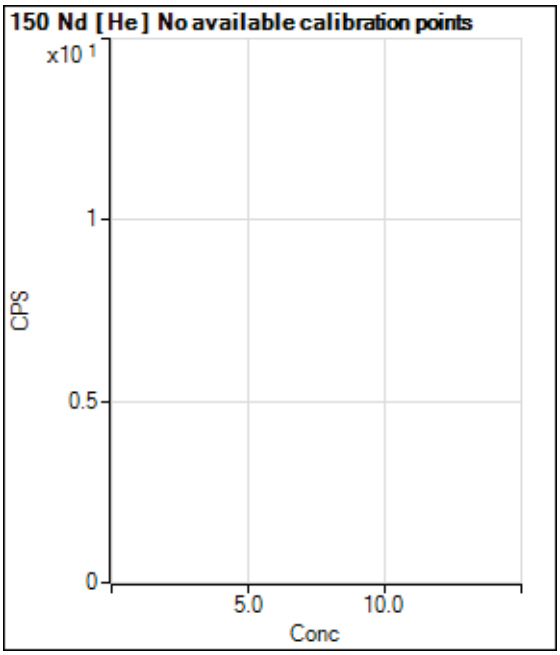
Weight: <None>

Min Conc: 0

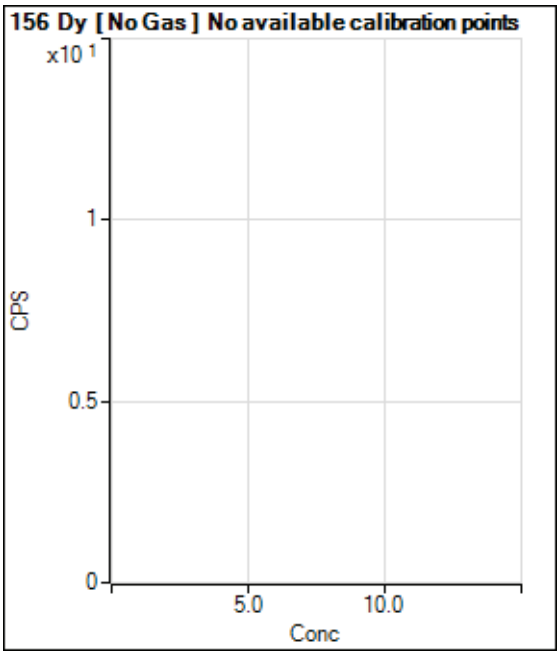


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				8.89		P	114.
2				15.55		P	24.8
3				24.44		P	31.5
4				71.11		P	46.3
5				102.23		P	7.5
6				177.78		P	13.2
7				320.01		P	9.5
8				200.01		P	NaN

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

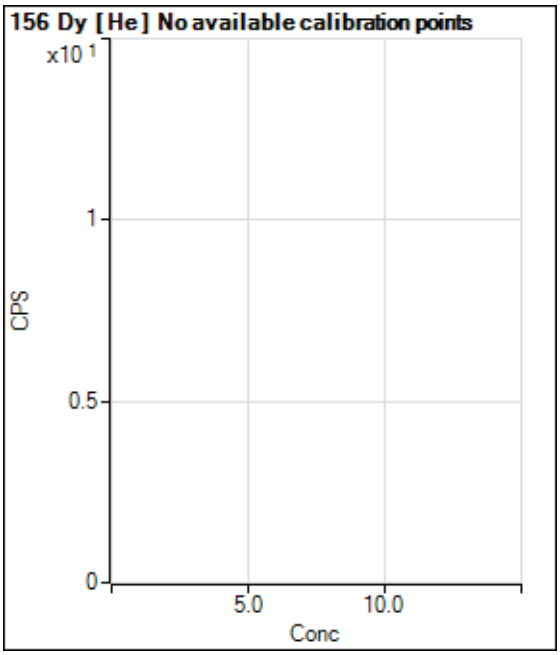


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	173.
2				3.33		P	0.0
3				4.44		P	43.4
4				8.89		P	21.6
5				10.00		P	33.3
6				12.22		P	15.7
7				48.89		P	19.7
8				53.33		P	33.1

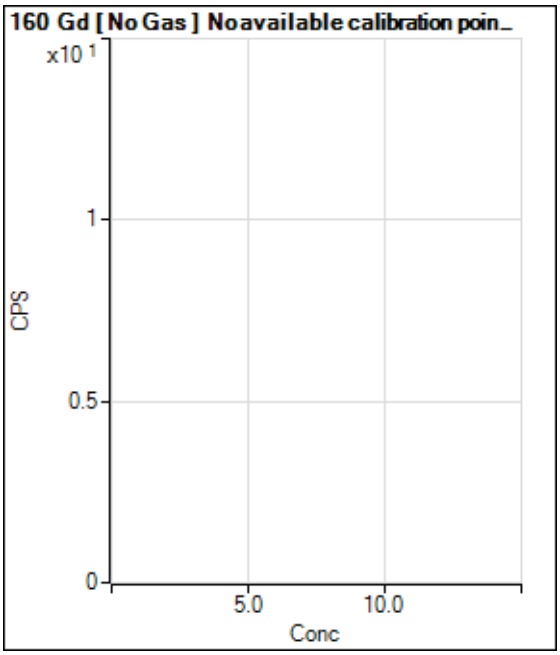


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				13.89		P	34.7
2				5.56		P	173.
3				19.45		P	24.7
4				86.12		P	24.4
5				111.11		P	11.5
6				175.01		P	36.0
7				363.90		P	25.7
8				1055.63		P	4.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

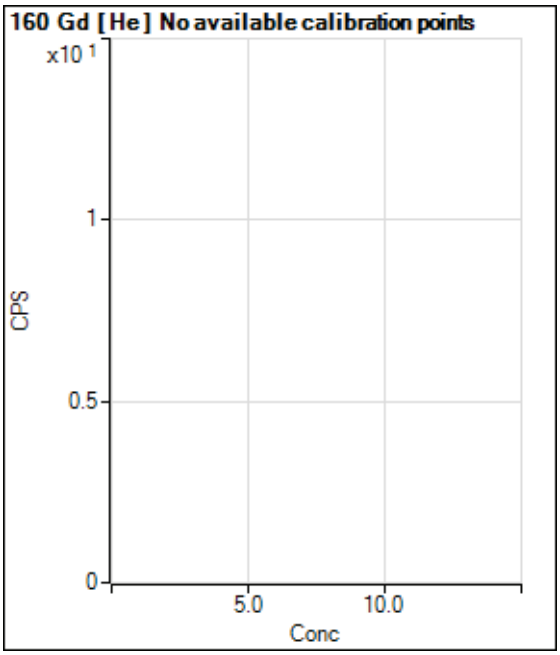


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	86.6
2				4.44		P	114.
3				10.00		P	66.7
4				26.67		P	45.1
5				32.22		P	6.0
6				77.78		P	17.8
7				180.00		P	18.8
8				497.79		P	0.4

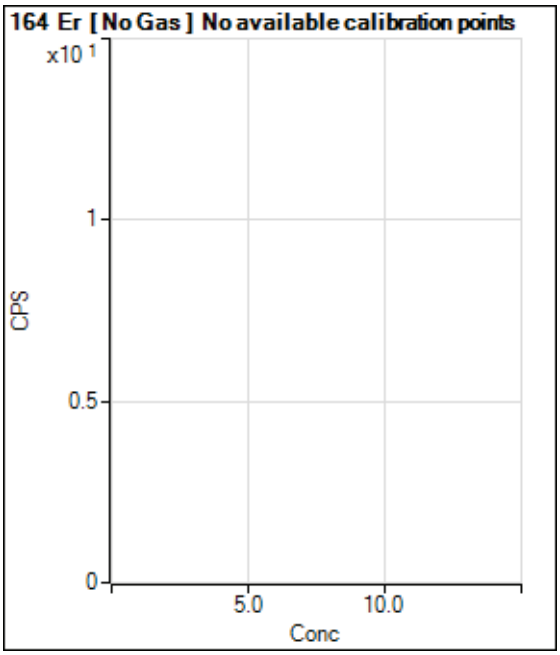


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				111.11		P	8.7
2				86.11		P	31.1
3				77.78		P	48.3
4				102.78		P	20.4
5				186.12		P	24.7
6				225.01		P	14.8
7				325.01		P	13.6
8				1183.42		P	10.2

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				130.00		P	9.2
2				100.00		P	23.3
3				114.45		P	8.9
4				161.12		P	12.1
5				147.78		P	14.7
6				196.67		P	11.1
7				291.12		P	15.8
8				796.70		P	9.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				55.56		P	17.3
2				55.56		P	48.2
3				61.11		P	41.7
4				66.67		P	12.5
5				77.78		P	16.4
6				125.01		P	17.6
7				200.01		P	23.2
8				194.45		P	20.3

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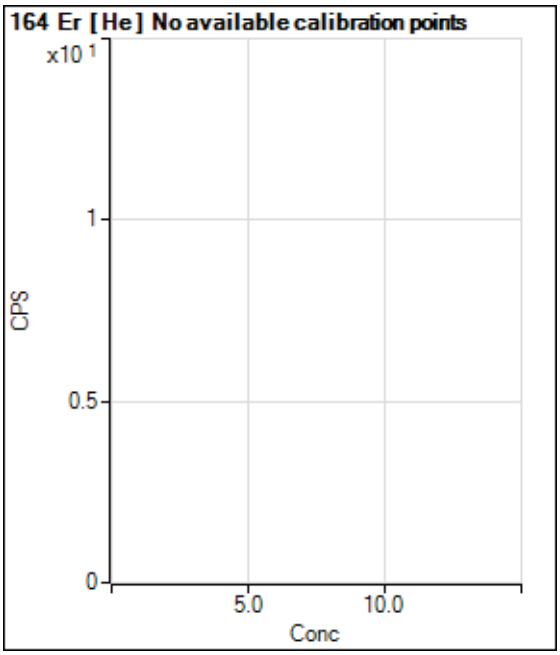
On:7/14/2023 8:48:56 AM
Inst Id :P8



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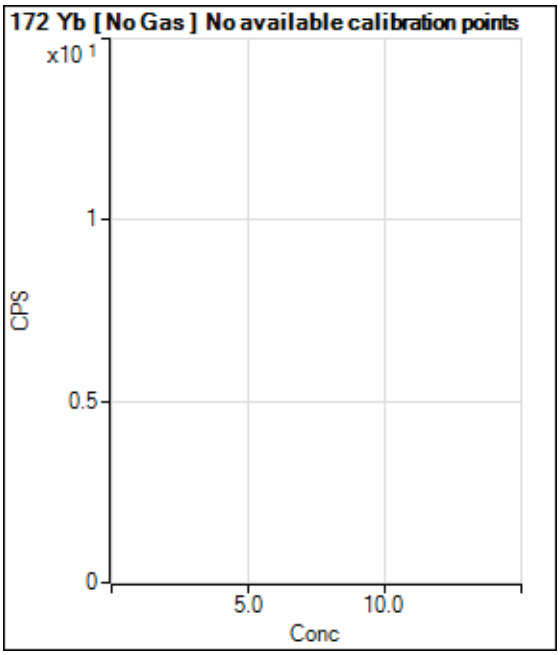
1				20.00		P	57.7
2				24.45		P	28.4
3				21.11		P	59.8
4				25.56		P	32.8
5				33.33		P	17.3
6				44.45		P	35.4
7				56.67		P	17.6
8				107.78		P	44.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				58.34		P	37.8
2				66.67		P	12.5
3				66.67		P	12.5
4				72.23		P	26.7
5				100.01		P	14.4
6				150.00		P	5.6
7				191.67		P	15.7
8				155.56		P	38.8

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On:7/14/2023 8:48:56 AM
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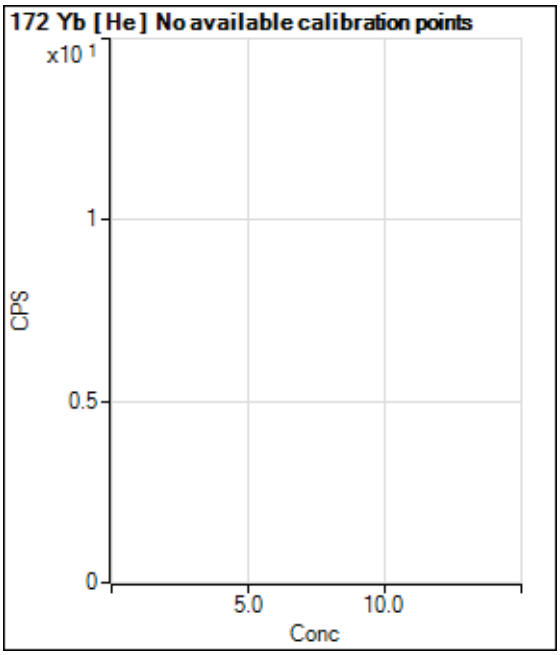

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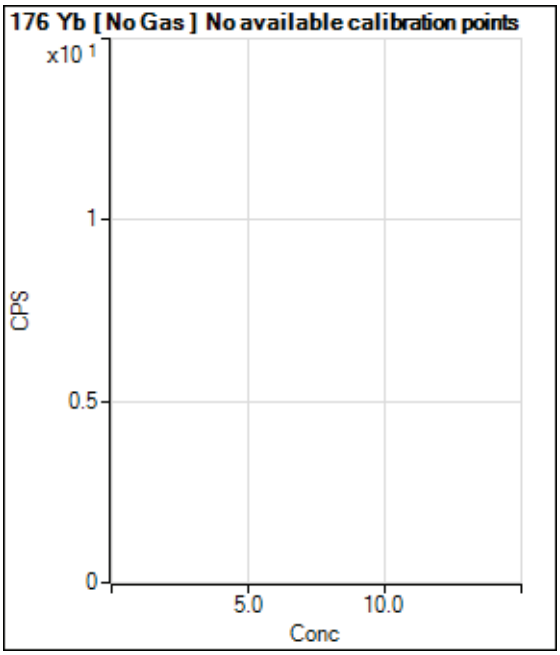
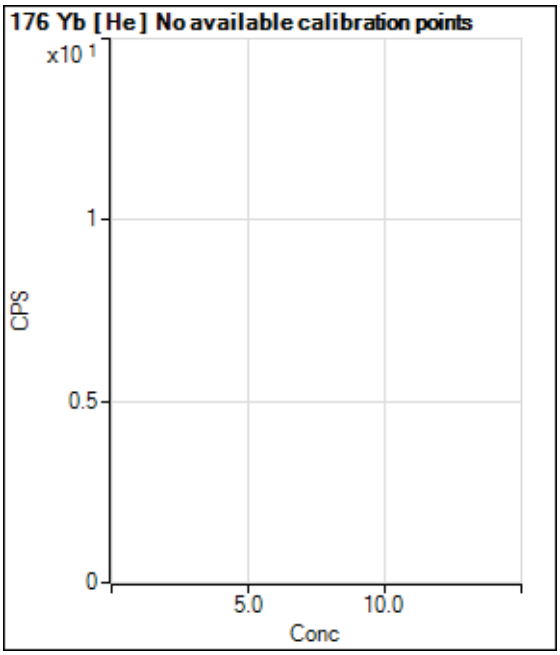
1				37.04		P	22.9
2				18.52		P	62.4
3				29.63		P	10.8
4				61.11		P	36.4
5				50.00		P	11.1
6				85.19		P	30.1
7				122.23		P	16.4
8				66.67		P	14.4

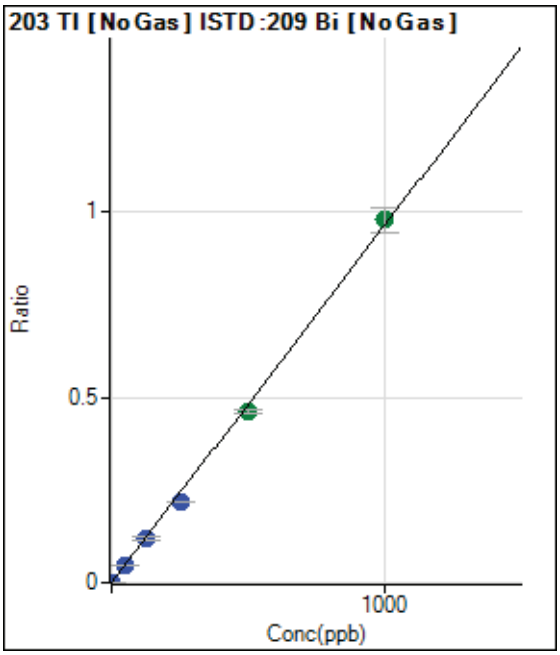


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1450.12		P	2.5
2				1450.13		P	14.5
3				2361.40		P	9.0
4				4248.01		P	4.8
5				7079.84		P	3.9
6				12828.78		P	3.5
7				25639.48		P	2.0
8				1391.78		P	11.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				10070.66		P	3.1
2				9731.51		P	4.5
3				9627.73		P	1.8
4				9879.79		P	1.0
5				11697.98		P	4.0
6				14224.54		P	1.4
7				19459.03		P	1.7
8				9679.61		P	1.5

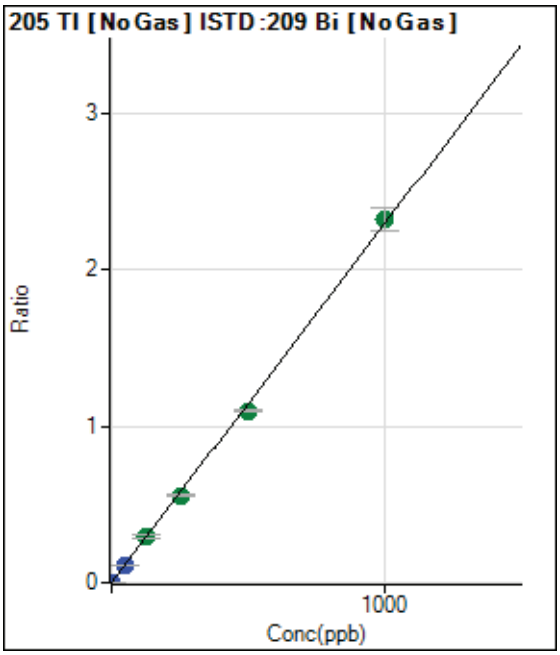


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.44	0.0000	P	22.0
2		1.000	0.841	5198.41	0.0008	P	4.5
3		50.000	48.050	278594.21	0.0463	P	8.5
4		125.000	123.877	694183.61	0.1192	P	7.0
5		250.000	226.963	1345888.70	0.2185	P	1.4
6		500.000	480.048	2840542.45	0.4620	A	2.1
7		1000.000	1015.973	5774780.03	0.9778	A	6.8
8				1614.06	0.0003	P	4.8

y = 9.6246E-004 * x + 6.9558E-006
R = 0.9994
DL = 0.004776
BEC = 0.007227

Weight: <None>
Min Conc: 0

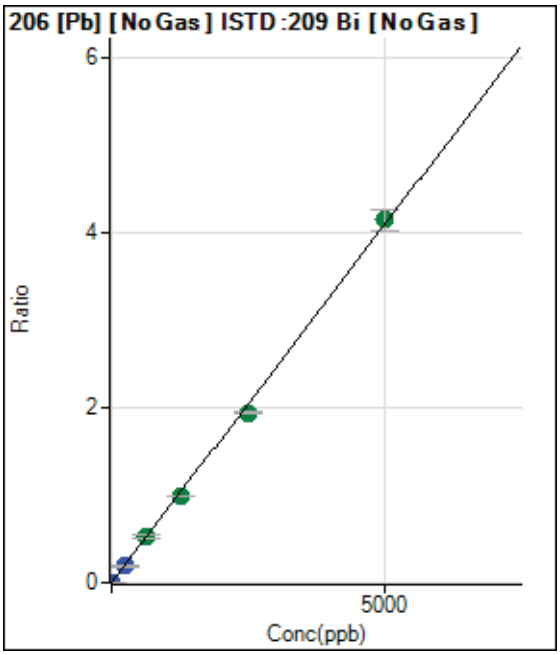
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	186.12	0.0000	P	16.6
2		1.000	0.883	13070.91	0.0021	P	1.2
3		50.000	47.993	662478.07	0.1101	P	9.8
4		125.000	130.521	1741112.63	0.2993	A	8.7
5		250.000	243.467	3439669.87	0.5582	A	0.5
6		500.000	478.942	6750475.50	1.0980	A	1.4
7		1000.000	1011.573	13698404.82	2.3191	A	6.5
8				4131.52	0.0008	P	5.4

y = 0.0023 * x + 2.9099E-005
R = 0.9996
DL = 0.006323
BEC = 0.01269

Weight: <None>
Min Conc: 0

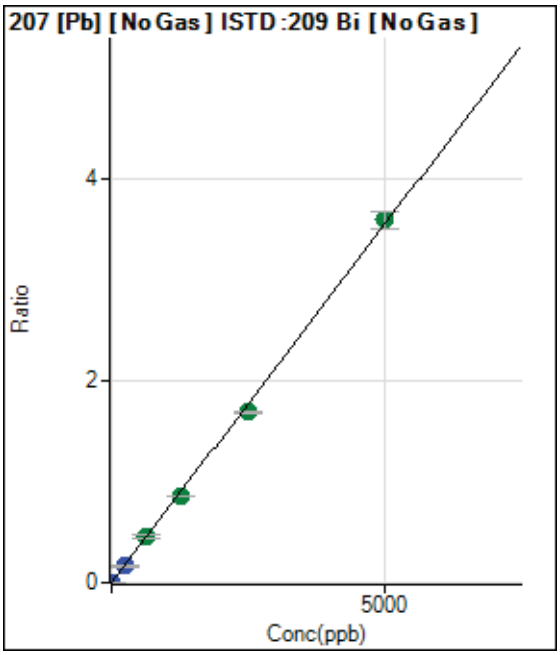


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	651.88	0.0001	P	8.2
2		1.000	0.849	5069.59	0.0008	P	1.3
3		250.000	234.630	1156358.40	0.1920	P	8.6
4		625.000	653.547	3112666.16	0.5346	A	6.8
5		1250.000	1210.719	6101427.05	0.9903	A	0.6
6		2500.000	2373.779	11935490.31	1.9414	A	1.4
7		5000.000	5070.131	24500926.01	4.1466	A	5.5
8				12600.47	0.0024	P	3.2

y = 8.1783E-004 * x + 1.0194E-004
R = 0.9995
DL = 0.03081
BEC = 0.1247

Weight: <None>
Min Conc: 0

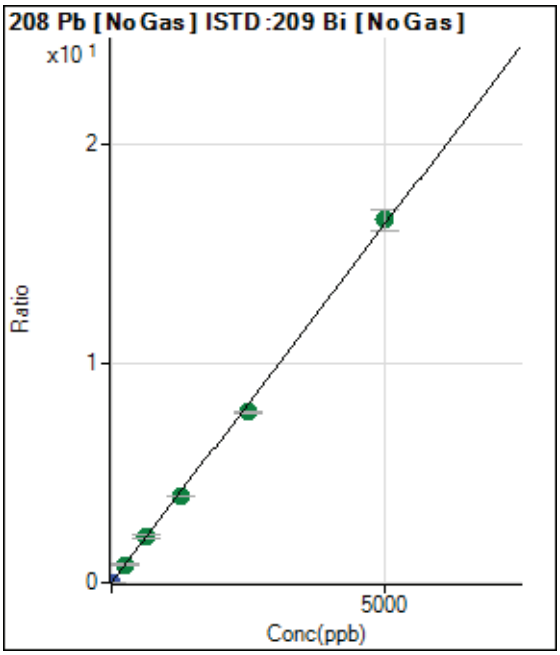
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	557.43	0.0001	P	5.9
2		1.000	0.854	4404.54	0.0007	P	3.9
3		250.000	235.112	1004484.19	0.1667	P	7.4
4		625.000	648.938	2675715.48	0.4599	A	8.7
5		1250.000	1208.510	5276119.73	0.8564	A	1.1
6		2500.000	2383.559	10383160.88	1.6889	A	1.5
7		5000.000	5066.345	21214783.34	3.5897	A	5.1
8				10896.18	0.0020	P	8.7

y = 7.0853E-004 * x + 8.7189E-005
R = 0.9995
DL = 0.02174
BEC = 0.1231

Weight: <None>
Min Conc: 0

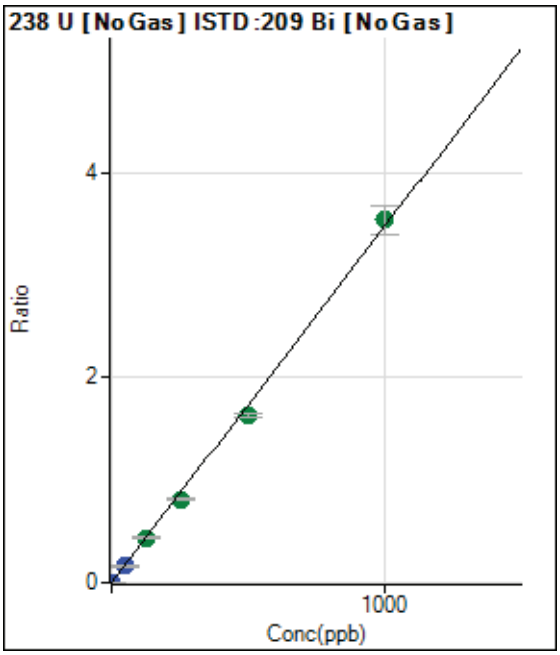


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2594.60	0.0004	P	2.1
2		1.000	0.841	20074.96	0.0032	P	2.2
3		250.000	246.724	4857126.80	0.8063	A	8.2
4		625.000	645.757	12276075.94	2.1096	A	8.2
5		1250.000	1209.189	24336955.29	3.9499	A	0.7
6		2500.000	2379.131	47777896.90	7.7712	A	1.0
7		5000.000	5068.207	97811839.22	16.5543	A	5.6
8				50987.96	0.0096	P	4.7

y = 0.0033 * x + 4.0581E-004
R = 0.9995
DL = 0.007974
BEC = 0.1242

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	49.7
2		1.000	0.833	18416.62	0.0029	P	4.2
3		50.000	46.996	982838.76	0.1631	P	8.1
4		125.000	126.287	2552268.22	0.4384	A	7.1
5		250.000	234.390	5012756.10	0.8136	A	1.4
6		500.000	470.288	10037671.84	1.6325	A	2.3
7		1000.000	1018.748	20872726.85	3.5364	A	8.3
8				4078.86	0.0008	P	7.7

y = 0.0035 * x + 3.0456E-006

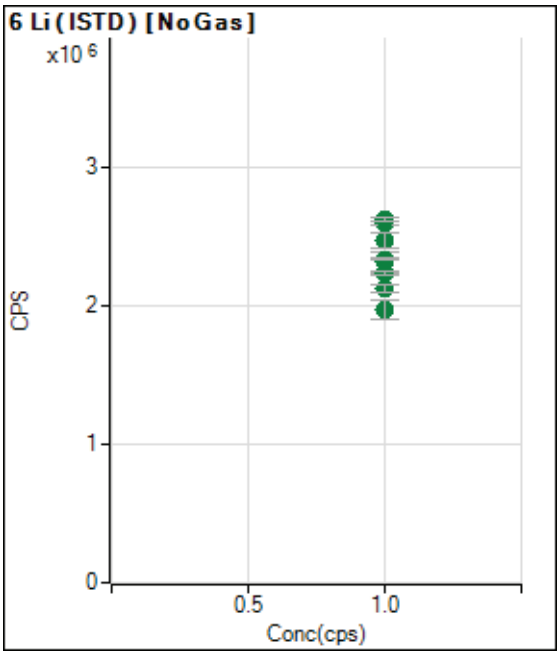
R = 0.9992

DL = 0.001309

BEC = 0.0008774

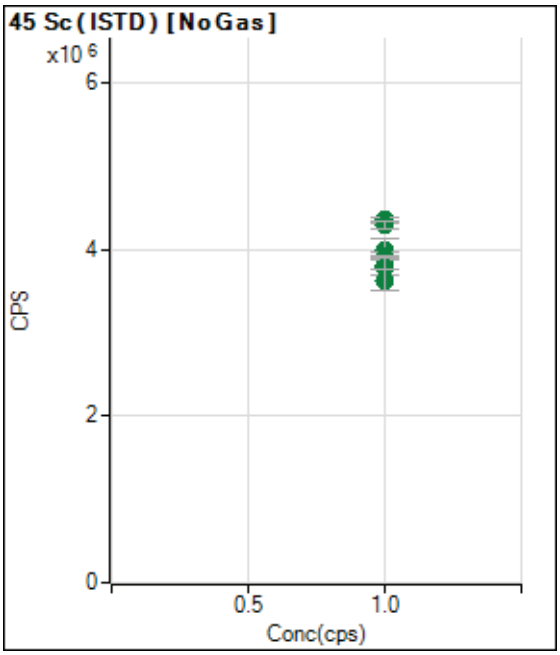
Weight: <None>

Min Conc: 0

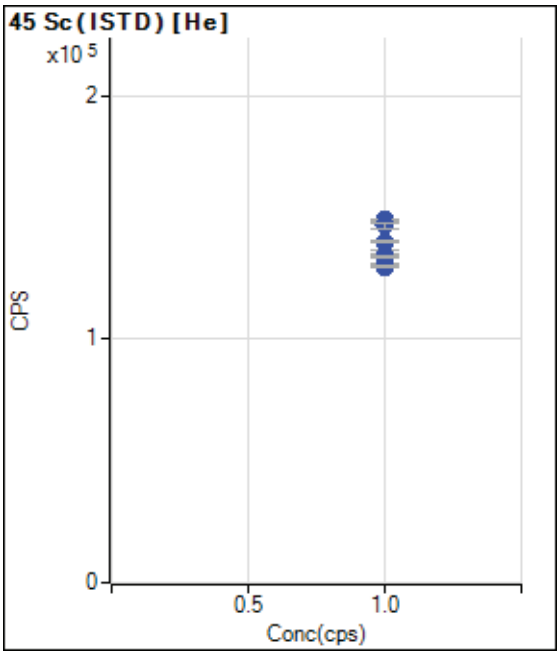


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2603032.20		A	1.0
2		1.000		2623846.94		A	0.9
3		1.000		2476707.42		A	4.4
4		1.000		2320087.36		A	6.7
5		1.000		2340265.67		A	0.9
6		1.000		2239711.47		A	1.8
7		1.000		2124741.75		A	3.0
8		1.000		1974910.39		A	7.0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

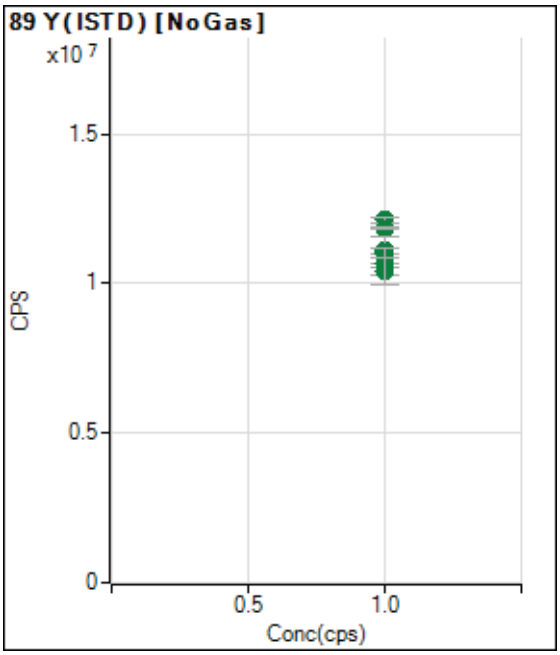


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4354339.21		A	1.6
2		1.000		4291225.14		A	1.9
3		1.000		4000697.19		A	6.2
4		1.000		3811369.08		A	6.4
5		1.000		3926135.50		A	1.8
6		1.000		3904489.28		A	1.3
7		1.000		3795074.73		A	5.1
8		1.000		3627130.68		A	7.2

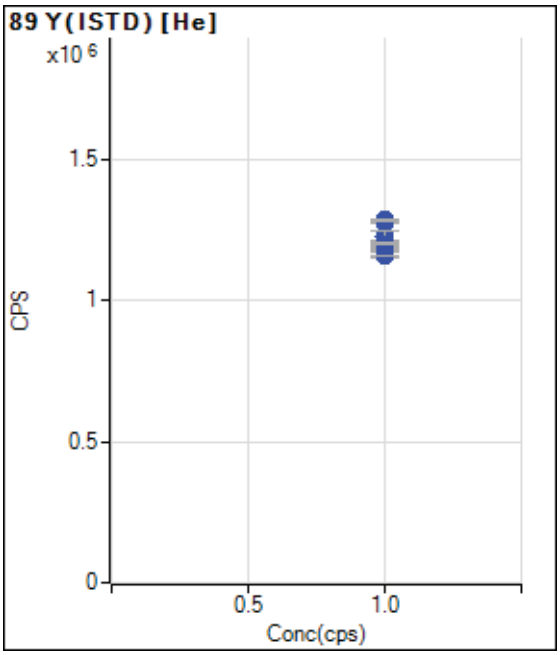


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		148863.48		P	0.6
2		1.000		146575.32		P	1.7
3		1.000		140030.43		P	0.9
4		1.000		134510.23		P	0.9
5		1.000		133351.78		P	4.1
6		1.000		129639.02		P	0.4
7		1.000		134098.09		P	1.3
8		1.000		133836.89		P	0.7

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

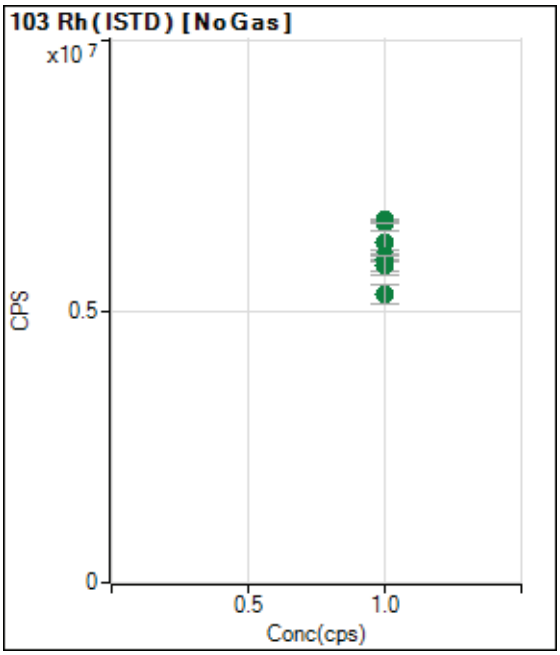


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		12130107.46		A	1.4
2		1.000		11841834.96		A	0.5
3		1.000		11123813.31		A	7.6
4		1.000		10651010.88		A	6.6
5		1.000		10999835.60		A	2.9
6		1.000		11042027.68		A	2.7
7		1.000		10865748.59		A	6.4
8		1.000		10413027.97		A	8.1

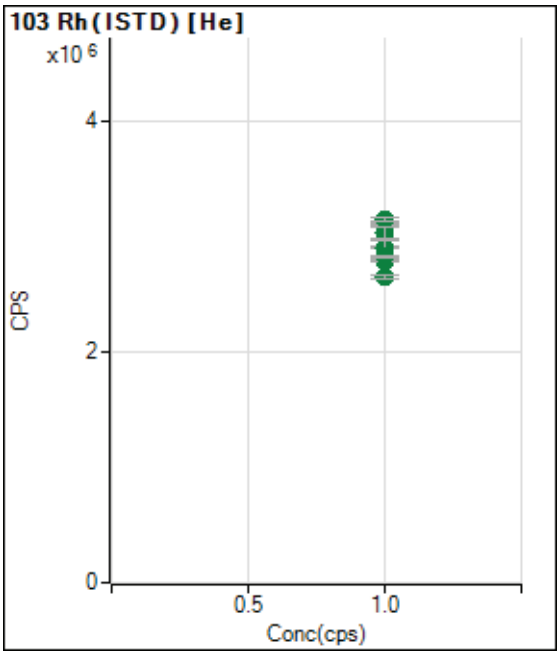


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1275974.76		P	0.5
2		1.000		1284286.62		P	0.5
3		1.000		1227872.11		P	2.7
4		1.000		1176561.98		P	0.5
5		1.000		1199825.75		M	8.1
6		1.000		1156567.87		P	0.1
7		1.000		1189821.89		P	0.6
8		1.000		1199068.12		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

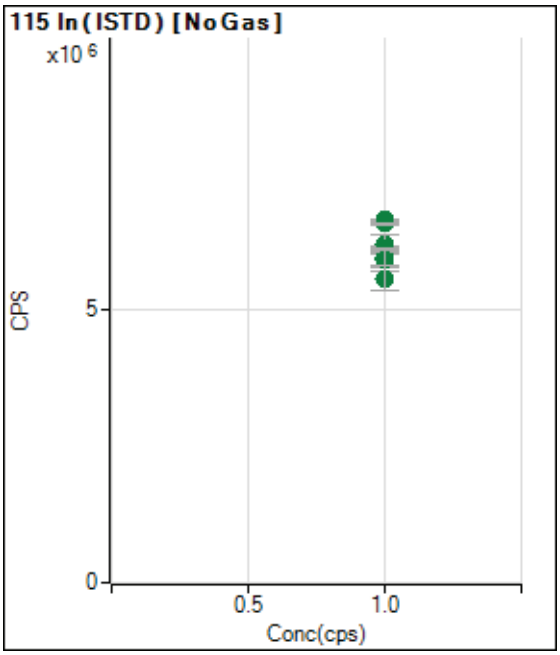


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6679451.49		A	0.8
2		1.000		6622575.97		A	0.3
3		1.000		6263544.67		A	6.3
4		1.000		5938899.09		A	6.6
5		1.000		6005473.66		A	1.6
6		1.000		5958188.50		A	2.1
7		1.000		5837414.06		A	5.9
8		1.000		5306734.97		A	6.8

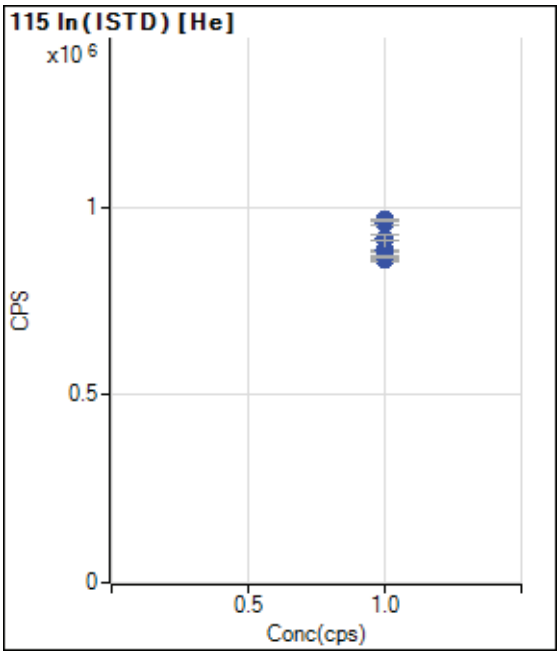


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3114670.75		A	0.6
2		1.000		3146957.73		A	1.2
3		1.000		3034344.64		A	3.1
4		1.000		2905751.49		A	0.4
5		1.000		2903493.64		A	4.9
6		1.000		2792840.93		A	0.8
7		1.000		2827706.45		A	1.0
8		1.000		2656534.92		A	1.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

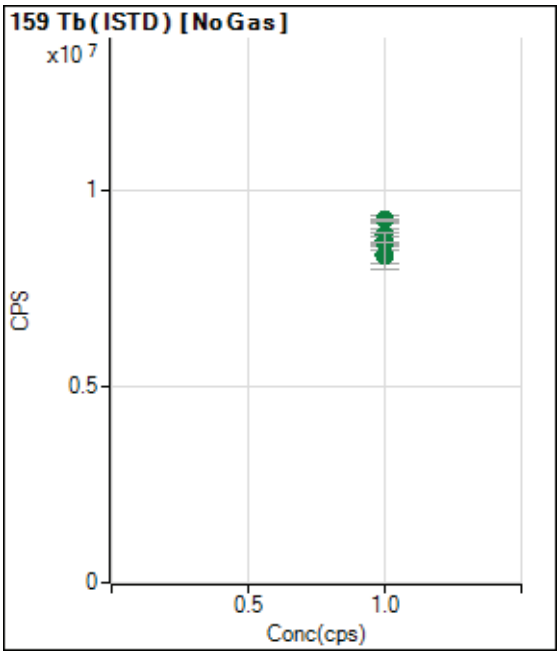


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6660958.81		A	0.7
2		1.000		6587001.59		A	0.7
3		1.000		6204830.67		A	5.6
4		1.000		5959874.15		A	5.2
5		1.000		6141761.97		A	0.7
6		1.000		6097470.25		A	0.6
7		1.000		5933258.15		A	6.7
8		1.000		5593864.69		A	7.7

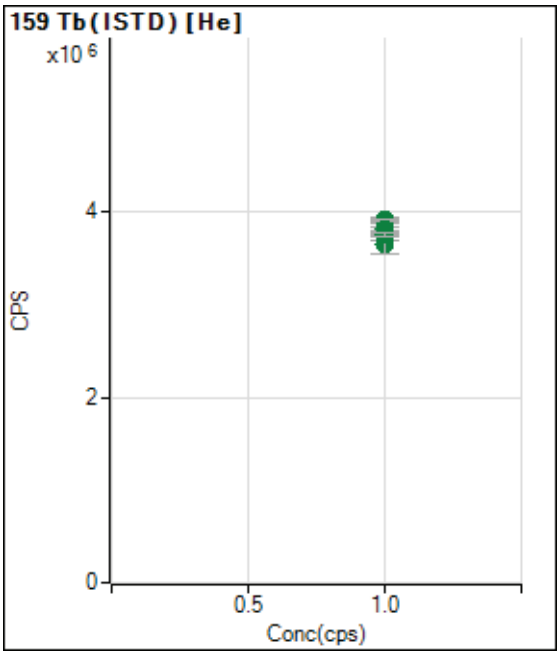


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		959068.76		P	0.6
2		1.000		967323.42		P	0.2
3		1.000		919145.54		P	1.5
4		1.000		884820.23		P	0.4
5		1.000		886993.07		P	5.5
6		1.000		860787.32		P	0.6
7		1.000		871186.62		P	0.2
8		1.000		871080.35		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

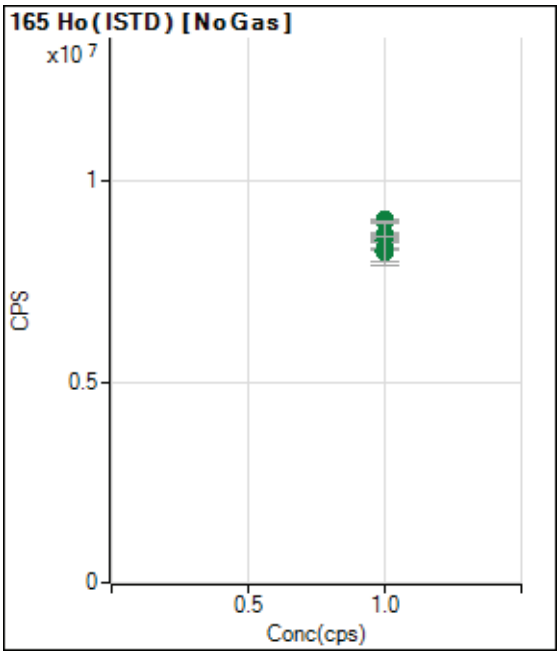


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9235681.18		A	2.1
2		1.000		9240800.70		A	0.8
3		1.000		8792578.13		A	5.4
4		1.000		8390581.40		A	6.0
5		1.000		8704279.11		A	3.1
6		1.000		8848541.12		A	1.1
7		1.000		8690576.96		A	5.3
8		1.000		8319441.61		A	8.3

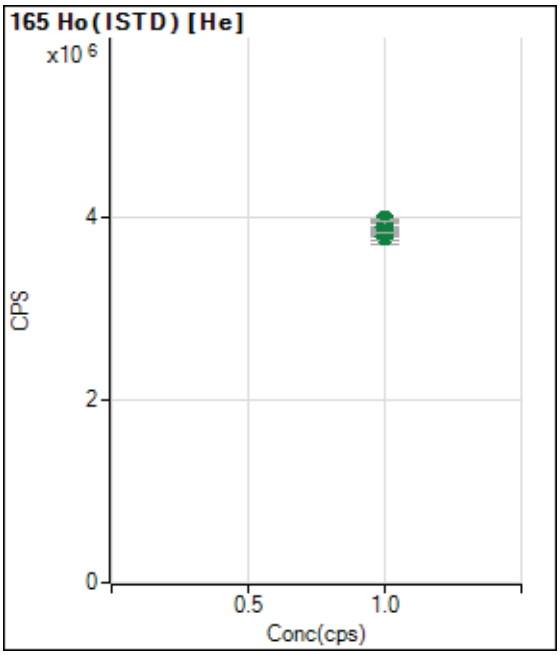


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3919389.80		A	1.4
2		1.000		3916865.43		A	0.7
3		1.000		3819436.40		A	0.8
4		1.000		3734282.48		A	1.4
5		1.000		3662839.39		A	5.6
6		1.000		3757439.94		A	1.2
7		1.000		3793328.80		A	0.5
8		1.000		3766357.38		A	1.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

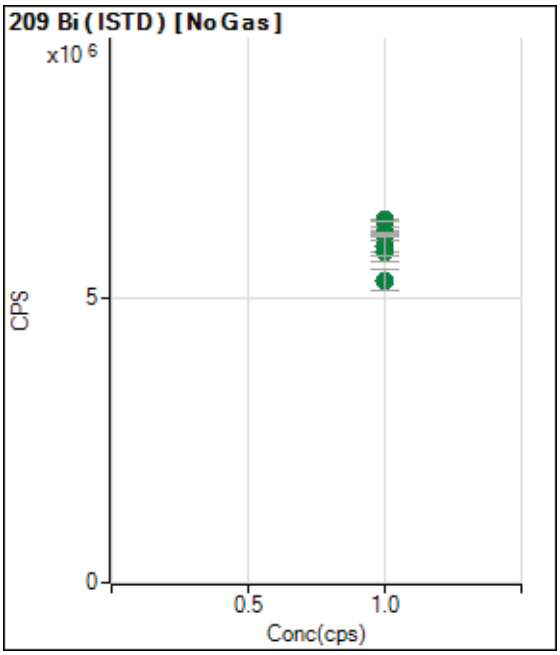


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9043296.91		A	0.6
2		1.000		8998541.69		A	0.3
3		1.000		8503689.25		A	5.0
4		1.000		8266835.43		A	6.7
5		1.000		8545550.63		A	0.9
6		1.000		8690898.20		A	0.7
7		1.000		8639384.05		A	7.4
8		1.000		8271170.32		A	8.3

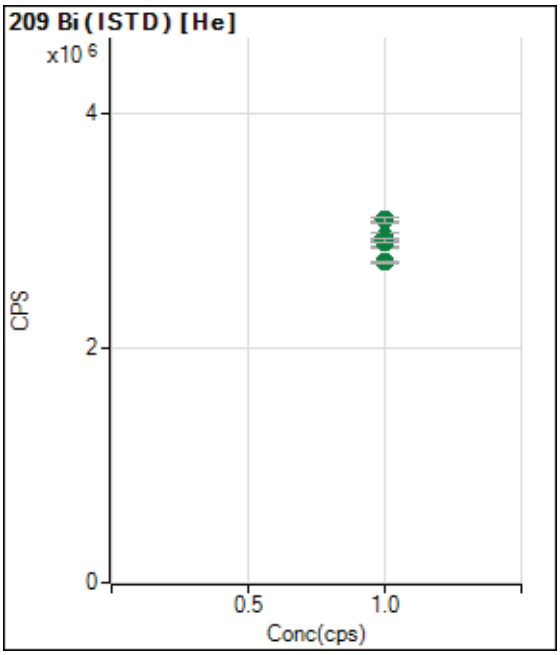


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3980551.61		A	0.4
2		1.000		3971211.16		A	1.0
3		1.000		3874259.84		A	1.0
4		1.000		3810003.21		A	0.8
5		1.000		3804769.63		A	4.4
6		1.000		3793520.43		A	1.5
7		1.000		3911079.87		A	2.7
8		1.000		3841472.68		A	0.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6393530.67		A	0.5
2		1.000		6365132.34		A	0.2
3		1.000		6048848.52		A	7.5
4		1.000		5838978.53		A	6.2
5		1.000		6161777.20		A	1.7
6		1.000		6148096.02		A	0.8
7		1.000		5921521.92		A	5.9
8		1.000		5332219.29		A	7.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3093564.29		A	1.0
2		1.000		3095061.59		A	1.4
3		1.000		2956754.16		A	1.7
4		1.000		2896746.13		A	1.3
5		1.000		2923960.93		A	4.4
6		1.000		2907002.56		A	0.7
7		1.000		2919972.60		A	1.3
8		1.000		2731748.68		A	0.4

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8071223 MS.b
Acq. Date-Time	2023-07-12 09:39:12
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9014	90140.09			2.552	5.000
24		368357	3683569.46			2.338	5.000
25		48006	480058.03			2.199	5.000
26		56968	569677.38			2.515	5.000
59		72216	722163.49			3.971	5.000
113		8162	81623.54			1.946	5.000
115		105309	1053092.38			2.916	5.000
206		27278	272775.17			2.065	5.000
207		24422	244220.42			2.541	5.000
208		59663	596630.07			2.043	5.000
220		0	1.80			31.672	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

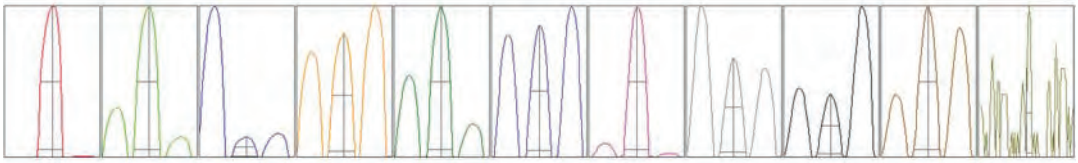
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9329	9125	8726	9007	8883
24	375525	371893	353426	369828	371113
25	49498	48063	46537	47781	48150
26	59211	56844	55207	56788	56789
59	76893	72374	69150	71455	71209
113	8336	8173	7924	8268	8110
115	109675	105847	101060	105202	104762
206	27668	27261	26333	27736	27390
207	24889	24259	23408	24687	24867
208	60223	60011	57550	59869	60663

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14938.29	9.05	8.90 - 9.10	
24	603107.28	24.00	23.90 - 24.10	
25	79799.58	25.00	24.90 - 25.10	
26	94110.22	26.00	25.90 - 26.10	
59	126702.00	59.00	58.90 - 59.10	
113	15450.12	113.05	112.90 - 113.10	
115	196437.37	115.05	114.90 - 115.10	
206	50983.21	206.00	205.90 - 206.10	
207	45744.55	207.00	206.90 - 207.10	
208	109964.61	208.00	207.90 - 208.10	
220	0.35	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.65	0.831	0.900	
25	0.64	0.792	0.900	
26	0.64	0.830	0.900	
59	0.60	0.780	0.900	
113	0.55	0.771	0.900	
115	0.55	0.775	0.900	
206	0.55	0.826	0.900	
207	0.55	0.794	0.900	
208	0.56	0.814	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16458	164584.20			3.791	
89		39407	394074.21			3.812	
205		21515	215146.59			3.059	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16651	16919	15781	17123	15819
89	39846	40389	38099	41105	37597
205	21824	21756	20499	22216	21278

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	3.8 V

US EPA Tune Check Report

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t Ap&nC Usq&ap:	1
t s& T i Ao r cqdmAr O:	2S2- 7S0712 12:SJ:14	t s&sUAP usb r :	SS4. cLBFO

8spsb r &p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RC&w
c Pmb ACAmb	2072	7SF5N	SF50	SF51	SFSS	u 5c	l l e
c C&b nC/	12171	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
c pwr CAq	0y72	7SF51	SF51	SFSS	SFSS	u 5c	l l e
Bsp Amb	1- y71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
Bsp Amb	1- 071	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
Br p/ PAmb	J71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
BAb m&a	2SJ71				1SS		%
BAb m&a	2SJ72				1SS		%
Bpmb AOr	N171						ql w
. sOb Amb	1SN71	SF5-	7SF51	7SF52	SFSS	u 5c	l l e
. sOb Amb	1S671	1FNy	7SFJN	7SFNN	SFSS	u 5c	l l e
. sOb Amb	11171	SF52	7SF51	SFSS	SFSS	u 5c	l l e
. sPqAmb	4- 71	7SF66	SF- y	SF- 1	SFSS	u 5c	l l e
. sPqAmb	4471	71F- 2	1F54	SF2N	SFSS	u 5c	l l e
. spenC	1271						ql w
. spenC	1272						ql w
. hPmpAOr	- y71						ql w
. hPmpAOr	- y72						ql w
. hpmb Amb	y272	7SF56	7SF52	SF50	SFSS	u 5c	l l e
. nesP&	yJ72	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
. nl l r p	6- 72	SF5-	7SF5-	SFSS	SFSS	u 5c	l l e
t / wl pnwAmb	1y671						ql w
t / wl pnwAmb	1y672						ql w
Epe Amb	16471						ql w
Epe Amb	16472						ql w
Gs OnPACAmb	16S71						ql w
Gs OnPACAmb	16S72						ql w
Hn P Amb	16y71				1SS		%
Hn P Amb	16y72				1SS		%
DOOAmb	11y71				1SS		%
DOOAmb	11y72				1SS		%
DpnC	y472	7SF2N	SF60	7SF- N	SFSS	u 5c	l l e
DpnC	y672	7SF5-	SF54	7SF51	SFSS	u 5c	l l e
DpnC	y072	71F1-	SF5y	1F5J	SFSS	u 5c	l l e
Kp/ l &aC	N- 71						ql w
Lr sO	2S671	SFSS	7SF51	SF51	SFSS	u 5c	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
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. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RC&w
LrsO	2S071	SFSS	SFS1	SFSS	SFSS	u5c	l l e
LrsO	2SN71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
LA&nAnb	671				1SS		%
9 sMOr wAnb	2472	7SF21	7SF2N	SF4J	SFSS	u5c	l l e
9 sOMsOr w	yy72	SFSS	SFS1	7SFS2	SFSS	u5c	l l e
9 nP eOr Onb	J471	SFS2	7SFS1	7SFS1	SFSS	u5c	l l e
9 nP eOr Onb	Jy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
9 nP eOr Onb	J671	7SFS1	7SFS1	SFS1	SFSS	u5c	l l e
9 nP eOr Onb	J071	7SFS1	SFS2	7SFS1	SFSS	u5c	l l e
9 nP eOr Onb	JN71	SFSS	SFSS	SFS1	SFSS	u5c	l l e
u r nO b Anb	1yS71						ql w
u r nO b Anb	1yS72						ql w
u A kr P	6S72	SFSS	7SFS1	SFS1	SFSS	u5c	l l e
8hnwl hnpmw	- 172	16F46	yF6y	746Fy2	7NF14		l l e
8n&swwAnb	- J72	71F41	SF14	1F20	SFSS	u5c	l l e
v hnOAnb	1S- 71				1SS		%
v hnOAnb	1S- 72				1SS		%
3qsCOAnb	4y71				1SS		%
3qsCOAnb	4y72				1SS		%
3r P CAnb	N271	7SF2N	SF14	SF14	SFSS	u5c	l l e
3r P CAnb	0072	7SF- N	SF0y	7SF- N	SFSS	u5c	l l e
3r P CAnb	0N72	SF2N	7SF2-	7SFS4	SFSS	u5c	l l e
3 A qnC	2N71	SFSS	SFS2	7SFS2	SFSS	u5c	l l e
3 A gr p	1S071	SFSS	SFSS	SFS1	SFSS	u5c	l l e
3 A gr p	1SJ71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
3nOAnb	2- 72	2F2S	71FSy	71F1y	SFSS	u5c	l l e
3 &nC&Anb	N671	SFSS	7SFS2	SFS2	SFSS	u5c	l l e
3 &nC&Anb	NN71	SFS1	7SFS1	SFSS	SFSS	u5c	l l e
3 mP mp	- 471	71J6FJS	711F00	7210F42	7142FS-		l l e
i r peAnb	1yJ71				1SS		%
i r peAnb	1yJ72				1SS		%
i hsP Anb	2S- 71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i hsP Anb	2Sy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i AC	11N71	7SFS2	SFS1	SFS1	SFSS	u5c	l l e
i A&sCAnb	4071	SFSS	SFSy	7SFS4	SFSS	u5c	l l e
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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D w&pmb Cr &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nCvr l 1	. nCvr l 2	. nCvr l -	cgMF. nCqF	. nCqv 3t	RC&w
VsCsOAmb	y172	SFSS	SFSS	SFSS	SFSS	u5c	l l e
Y&pe Amb	10271						ql w
Y&pe Amb	10272						ql w
Y&pe Amb	10671						ql w
Y&pe Amb	10672						ql w
Y&p Amb	NJ71				1SS		%
Y&p Amb	NJ72				1SS		%
ZACq	6672	7SFS1	SFSS	SFS1	SFSS	u5c	l l e
ZAqnCAmb	JS71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
ZAqnCAmb	J171	SFS2	SFS1	7SFS-	SFSS	u5c	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju rwo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju rwo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
i vNu TbTNu	2072	1MGSn	1MGD6	1MG12	1MG 1	2GS2	r r m
i oDDu Coy	12171	1GP6	1GD1	1GDn	1GD0	4G 0	r r m
i eeaboTA	0n72	1G1-	1G12	SGM1	1GSn	11GP6	r r m
BJeTNu	1- n71	MGS6	PGD4	PG44	PG6P	- GP1	r r m
BJeTNu	1- 071	PGD2	MGPn	MG1S	MG22	6G22	r r m
Bbeyw TNu	M71	SGM0	1GS1	SGMM	SGMM	1GPn	r r m
BTau NDn	2SM71				1SS		%
BTau NDn	2SM72				1SS		%
BeOu Tbb	P171						A r a
5 Jqu TNu	1SP71	SGPS	1G1n	SGMM	SGMP	10G60	r r m
5 Jqu TNu	1S671	72G1	2G M	71G4n	7SG M		r r m
5 Jqu TNu	11171	SGP4	SGM-	SGM6	SGM1	6GDP	r r m
5 JvATNu	4- 71	414G4n	441G1P	44SGDn	4- 2G1-	- GD4	r r m
5 JvATNu	4471	41MG4P	440GPM	442G M	4- 6GDM	- G4n	r r m
5 JemOo	1271						A r a
5 JemOo	1272						A r a
5 hwOeTbb	- n71						A r a
5 hwOeTbb	- n72						A r a
5 heOu TNu	n272	1GPP	1GMh	1GM-	1GM2	1G6M	r r m
5 OmJwD	nM72	SGM6	SGM6	SGMh	SGM6	SG4P	r r m
5 Orr be	6- 72	1GPM	1GP2	1GPM	1GP0	2G S	r r m
I yar eOaTNu	1n671						A r a
I yar eOaTNu	1n672						A r a
EemTNu	16471						A r a
EemTNu	16472						A r a
GJqOwbTNu	16S71						A r a
GJqOwbTNu	16S72						A r a
HOw TNu	16n71				1SS		%
HOw TNu	16n72				1SS		%
poqTNu	11n71				MM		%
poqTNu	11n72				1S1		%
peOo	n472	nSGDM	40G20	n1GD4P	4MGPP	4G6S	r r m
peOo	n672	4PG61	46GMh	4PG6M	4PGSM	2GSn	r r m
peOo	n072	44GS6	40GP4	4PG4-	46GDP	nGS0	r r m
Keyr DDo	P- 71						A r a
LbJq	2S671	SGPn	SGP6	SGP4	SGPn	1GD4	r r m

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
LbJq	2S071	SCPM	SCP2	SCPn	SCPn	4C44	r r m
LbJq	2SP71	SCP4	SCP6	SCP2	SCP4	2C06	r r m
LTDTNu	671				1S1		%
g JvobaTNu	2472	404C40	40nC11	4M2C10	4PSC0P	2CSM	r r m
g JovJobab	nn72	SCM6	SCM4	SCP4	SCM1	6C62	r r m
g OymqboNu	M471	nCSS	nCSM	nG 2	nC1-	- C1P	r r m
g OymqboNu	Mn71	4G P	4C41	4C2n	4G n	2CSS	r r m
g OymqboNu	M671	4C42	4C4M	4G 6	4C42	1C46	r r m
g OymqboNu	M071	4G 2	4C1M	4G 6	4C2M	2C12	r r m
g OymqboNu	MP71	4C0n	4C2-	4C4-	4C4S	- C06	r r m
8 bOqyu TNu	1nS71						A r a
8 bOqyu TNu	1nS72						A r a
8 TAkbw	6S72	1CS6	1C1S	1C16	1C11	4G -	r r m
I hOarhOaNa	- 172	4C16	710CS4	- 0G S	PC14	- - 6C00	r r m
I CDJaaTNu	- M72	40- CS1	4n6C66	4n6C11	4610C4	2CSP	r r m
UhOqTNu	1S- 71				MM		%
UhOqTNu	1S- 72				1S1		%
3 AJoqTNu	4n71				MM		%
3 AJoqTNu	4n72				MP		%
3 bwboTNu	P271	nC12	4C2-	4C04	4C06	MC06	r r m
3 bwboTNu	0072	2C00	6G P	4CSM	4C4P	- PCPS	r r m
3 bwboTNu	0P72	- C0h	6CS0	4C26	4C06	24CS4	r r m
3 TWACo	2P71	SC0M	SC02	SC60	SC66	1SC4M	r r m
3 TWbe	1S071	SCM2	SCM0	SCMP	SCM6	- CS6	r r m
3 TWbe	1SM71	SCM1	SCM0	SCM2	SCM4	2CM4	r r m
3 OqTNu	2- 72	4P0CM2	40- C4n	4M2C04	4P4C0S	2CS0	r r m
3 DaOoDTNu	P671	SCPP	SCPn	SCP0	SCP6	1C0-	r r m
3 DaOoDTNu	PP71	SCM4	SCPM	SCP0	SCMS	- CP4	r r m
3 NvNe	- 471	716SC0S	2MPC1-	2PPC60	142CS-	1P4C62	r r m
&bemTNu	1nM71				1SS		%
&bemTNu	1nM72				1SS		%
&hJwTNu	2S- 71	SCPM	SCP-	SCP1	SCP4	4C0P	r r m
&hJwTNu	2Sn71	SCP0	SCPP	SCPM	SCPP	1C2-	r r m
&Tb	11P71	4G 4	4G 2	4C44	4G 0	1C40	r r m
&TDJoTNu	4071	4C46	4C4-	4C06	4C4P	1C42	r r m
F eJoTNu	2- P71	SCP1	SCP0	SCP1	SCP-	4C22	r r m

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD9Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F o TDa
VJoJqTNu	n172	4CPn	4C62	4C6P	4CC2	2C04	r r m
YDDbemTNu	10271						Ar a
YDDbemTNu	10272						Ar a
YDDbemTNu	10671						Ar a
YDDbemTNu	10672						Ar a
YDD9TNu	PMV71				MP		%
YDD9TNu	PMV72				1S1		%
ZTbA	6672	2C1M	2CS0	2C4-	2C2-	PC2S	r r m
ZTbACoTNu	MS71	SCC0	SCPM	SCC4	SCPS	MCPM	r r m
ZTbACoTNu	M171	SCC0	SCPS	SCPM	SCP2	0CP1	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARVC5oncC	5oncU3D	Fnits
Aluminium	2072	1S90C92	1S9M40	1S48CSS	1S99CSS	SC98	ppb
Antimony	12171	9- C49	40C28	48CS-	4MC98	6C0M	ppb
Arsenic	0972	91C9S	9- CS2	9- C9S	92C60	10CM	ppb
Barium	1- 971	26SC 2	2- 8C30	241CS6	246C09	4C08	ppb
Barium	1- 071	269C48	241C24	242C36	24MC36	9C42	ppb
Beryllium	M71	9- C68	4M4M	4MC09	91CS4	4C9S	ppb
Bismuth	2SM71				M9		%
Bismuth	2SM72				M6		%
Bromine	8171						cps
5admium	1S871	6SC66	94CS2	92C98	99C09	0C0-	ppb
5admium	1S671	9- CS6	92CM	4MCM	91C44	- C9M	ppb
5admium	11171	90C28	91C 6	9- C90	94CS0	9C9-	ppb
5alcium	4- 71	98M2C 9	92- - C16	9208CM0	9468C16	6C0-	ppb
5alcium	4471	9062C9-	9114C6M	929MC02	9- 08CM8	6C 2	ppb
5arbon	1271						cps
5arbon	1272						cps
5hlorine	- 971						cps
5hlorine	- 972						cps
5hromium	9272	9SC S	9SCS9	48C29	4MC9-	2C26	ppb
5obalt	9M72	91CS0	4MC32	4MC90	9SC19	1C6S	ppb
5opper	6- 72	912C26	9SMC6-	4MC06M	9S6C9-	1C9-	ppb
Dysprosium	19671						cps
Dysprosium	19672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16S71						cps
Gadolinium	16S72						cps
Holmium	16971				M4		%
Holmium	16972				M0		%
Indium	11971				M4		%
Indium	11972				M6		%
Iron	9472	26S- C26	2641C6-	2994C2S	29MMC0S	1C6M	ppb
Iron	9672	2010C31	2049C0S	20SSC4M	2021C-	SC34	ppb
Iron	9072	2618C 4	29- 1C6M	29S6CM9	2992C-	2C2M	ppb
Krypton	8- 71						cps
Lead	2S671	290C6M	22SCS9	226C19	2- 4C6-	8C61	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	Fnits
Lead	2S071	299CS8	224C04	229C92	2- 9C11	0C6	ppb
Lead	2S871	26M8-	2- 2C29	2- 8CSM	246C02	8C2S	ppb
Lithium	671				M9		%
g avnesium	2472	94- M026	941- C4-	9262C22	9- 01C64	1C08	ppb
g anvanese	9972	9S- C09	4M6C49	488C2	4M6C24	1C90	ppb
g olybdenum	M471	99M62	480C89	4M9C1M	914C4M	0C64	ppb
g olybdenum	M971	996C69	4M0C19	912CS0	921C06	9C04	ppb
g olybdenum	M671	901C01	4M0C6M	911C42	926C04	0C40	ppb
g olybdenum	M071	96- C6S	484C8S	4M0C1M	919C46	8C1M	ppb
g olybdenum	M871	909C4-	4M- C14	9S6CSS	924C86	8C4-	ppb
Neodymium	19S71						cps
Neodymium	19S72						cps
Nickel	6S72	94C09	9- C9-	92C82	9- C0S	1C82	ppb
Phosphorus	- 172	1S10C21	1S- 2C2S	1S48C6M	1S- 2C0S	1C92	ppb
Potassium	- M72	2990C2M	2926C09	2916C9M	29- - C61	SC8-	ppb
Uhodium	1S- 71				M4		%
Uhodium	1S- 72				M0		%
3candium	4971				M2		%
3candium	4972				M4		%
3elenium	8271	6SC0S	9- C0M	91C02	99C40	8C42	ppb
3elenium	0072	69C6S	40C86	44CSS	92C4M	21C09	ppb
3elenium	0872	94C00	9M4S	6- C96	9M24	0C42	ppb
3ilicon	2871	61C09	9- C61	94C04	96C8-	0C68	ppb
3ilRer	1S071	99C01	9SC84	91C9M	92C02	4C00	ppb
3ilRer	1SM71	96C1M	9SCS-	9SC40	92C2-	6C98	ppb
3odium	2- 72	9669C00	998SC98	9482C60	9906C4	1C64	ppb
3trontium	8671	1419C16	12- 9C64	1291C0S	1- SSC8-	0C64	ppb
3trontium	8871	1- 80C08	1226CS6	121M8S	1200C88	0C49	ppb
3ulfur	- 471	- S29C4-	1- M9C2-	1406C10	1M69C1	46C04	ppb
Terbium	19M71				M9		%
Terbium	19M72				M0		%
Thallium	2S- 71	92C06	49C49	49C04	48CS9	8C9S	ppb
Thallium	2S971	9- C9	44C91	46C12	40C0M	M8C1	ppb
Tin	11871	94C12	48C4M	48C0M	9SC40	6C28	ppb
Titanium	4071	940C8S	4M2C8	4M9C8-	912CSS	6CS6	ppb
Franium	2- 871	91C8	44C44	49C18	40CSS	8C11	ppb

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	F nits
Vanadium	9172	91C2S	92C42	9SC00	91C46	1C66	ppb
Ytterbium	10271						cps
Ytterbium	10272						cps
Ytterbium	10671						cps
Ytterbium	10672						cps
Yttrium	8M71				M2		%
Yttrium	8M72				M6		%
Zinc	6672	921CSS	91M48	9S4C49	9140M8	1C08	ppb
Zirconium	MS71	9- C6M	40C M	48C12	4MC0-	6C04	ppb
Zirconium	M171	9- C0	46C44	48CS-	4MC48	8CS2	ppb

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LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
i lNu TbTNu	2072	26S45- 2	2g4- 524	2g9056S	2g095- M	1522	r r m
i oDu Coy	12171	116569	1- 05- M	129591	12056-	951g	r r m
i esboTA	0g72	1- S5- S	126592	126599	1295SS	15g6	r r m
BaeTNu	1- g71	g92511	69M5SS	64g5- M	6- 9594	9541	r r m
BaeTNu	1- 071	gM- 560	6M65S-	6465M1	64g5g4	05M-	r r m
BbeylITNu	M71	11M5- 9	14155S1	12052-	12M52S	9540	r r m
BTsu NDn	2SM71				M1		%
BTsu NDn	2SM72				M4-		%
BeOu Tbb	9171						Ar s
n aqu TNu	1S971	1- - 5SS	1495MS	14S52M	14S50-	g566	r r m
n aqu TNu	1S671	12456M	1gS564	1- 652M	1- 0521	M540	r r m
n aqu TNu	11171	12g5- 2	1495- 2	14S500	1- 9514	954M	r r m
n alATNu	4- 71	126SM5- S	1492252-	1- gg9502	1- 66- 542	951-	r r m
n alATNu	4471	122915MM	14- 9S52g	1- g60562	1- 4SM5Mg	059M	r r m
n aemOo	1271						Ar s
n aemOo	1272						Ar s
n hlOeTbb	- g71						Ar s
n hlOeTbb	- g72						Ar s
n heOu TNu	g272	12- 560	11M51M	11M500	12S590	25S1	r r m
n OmalD	gM72	1265M1	12- 516	12g5SS	12g52-	15g2	r r m
n Or r be	6- 72	1- 02526	1290512	1- 1M5S-	1- 26514	- 524	r r m
I ysr eOs TNu	1g671						Ar s
I ysr eOs TNu	1g672						Ar s
EemTNu	16471						Ar s
EemTNu	16472						Ar s
GaqOTbTNu	16S71						Ar s
GaqOTbTNu	16S72						Ar s
HOlu TNu	16g71				M1		%
HOlu TNu	16g72				M6		%
poqTNu	11g71				9M		%
poqTNu	11g72				M2		%
peOo	g472	6g4051S	6- 01520	64M0596	64025S9	154S	r r m
peOo	g672	60S2544	6g6S5- 9	66M05- -	66g- 5- 9	1521	r r m
peOo	g072	64SM524	626- 52S	624651-	6- S651M	1542	r r m
Keyr DDo	9- 71						Ar s
Lbaq	2S671	61- 5M0	0S1591	644596	6g- 5gg	6592	r r m

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	gM454M	0S052g	64g5S0	6495M4	950S	r r m
Lbaq	2S971	gM0540	0S256g	6- 051g	64g506	9522	r r m
LTbTNu	671				9M		%
v aRobsTNu	2472	1- 022509	1- ggg529	14S24506	1- 06056S	150-	r r m
v aoRaobsb	gg72	12- 65M4	11M4599	122454M	12195 00	1500	r r m
v Clymqboi Nu	M471	12g259-	14g9506	1- S459g	1- - 9591	95SS	r r m
v Clymqboi Nu	Mg71	12- g512	144M5M2	1- SM5gg	1- - 15g-	951M	r r m
v Clymqboi Nu	M671	122M544	14g450g	1- SM512	1- - 151S	95g9	r r m
v Clymqboi Nu	M071	12295g4	14g955S2	129g5S0	1- 2- 599	M5S-	r r m
v Clymqboi Nu	M971	12295gM	141M5g1	120M5S6	1- SM5S6	05g6	r r m
8 bOqyu TNu	1gS71						Ar s
8 bOqyu TNu	1gS72						Ar s
8 TAkbl	6S72	1- 156g	129542	1- - 5- 4	1- 1514	15M1	r r m
PhOsr hOaNs	- 172	244M594	2- g95- S	2g645M4	24g056M	4521	r r m
PODassTNu	- M72	6- 10596	6S6- 560	61005- 9	61965- 1	25S6	r r m
F hOqTNu	1S- 71				9M		%
F hOqTNu	1S- 72				M4		%
3 AaoqTNu	4g71				99		%
3 AaoqTNu	4g72				M5		%
3 blboTNu	9271	1- S521	14M5S0	1- g5g-	1- 9520	05S-	r r m
3 blboTNu	0072	12450 6	12S561	1465M9	1- S50M	1S594	r r m
3 blboTNu	0972	1- 45- 1	141562	1- g5- 1	1- 05S9	259M	r r m
3 TTAOo	2971	1205- 1	1gS5- -	1- 0500	1- 9540	95- 2	r r m
3 TUbe	1S071	12- 596	1- M5M9	1- g512	1- 25M9	6522	r r m
3 TUbe	1SM71	12150M	14- 5S1	1- 6524	1- - 569	9511	r r m
3 OqTNu	2- 72	1- 6g454-	1- 4965M5	1- g6g51-	1- g6959 2	S562	r r m
3 DaOoDTNu	9671	- SM150M	- 6g452g	- 241522	- - 2M5SM	950g	r r m
3 DaOoDTNu	9971	2Mg652-	- g11590	- 2- 65- M	- 2- 459-	95gM	r r m
3 NifNe	- 471	29gM51g	46- 6522	- - MM5S2	- 6- 1546	2g5SM	r r m
&bemTNu	1gM71				M1		%
&bemTNu	1gM72				Mg		%
&hallTNu	2S- 71	116542	1- - 5- 9	1215 9-	12- 599	65MM	r r m
&hallTNu	2Sg71	11M5MM	1425g4	12M5S-	1- S5g2	950S	r r m
&Tb	1197 1	1145M0	1- M5- M	1- 15M4	129500	M502	r r m
&DaoTNu	4071	11MS50M	1- 9g59-	12M05- 9	12M15- -	05g6	r r m
. eaoTNu	2- 971	1105MM	1- g50-	12g514	12652M	05S0	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDeNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	g172	1295M4	122520	12654S	12g590	2560	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDeTNu	9M71				99		%
YDDeTNu	9M72				M2		%
ZTbA	6672	120S529	12- 654-	12gM52S	12gg5- S	15- 0	r r m
ZTeACoTNu	MS71	1105Ig	1- 952S	12g5S9	12659 1	95- 9	r r m
ZTeACoTNu	M171	1165DS	1- g50M	1245 92	12g500	0561	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA 5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rrl 1	Cn5Rrl 2	Cn5Rrl 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
cPmb A5Amb	20 2	-111.-1	-SS6.4J	4662.-6	4J26.N-	4.00	l l e
c5&b n5y	121 1	240.J0	276.S1	27-.4J	27J.N2	2.J4	l l e
cpwr 5Aq	0- 2	26S.JS	244.24	216.04	24S.67	J.20	l l e
BspAmb	17- 1	124J.1J	11NJ.6-	1100.07	12S-.-2	7.1N	l l e
BspAmb	170 1	12N4.2J	1227.64	11JJ.-J	127-.N4	7.-7	l l e
Br pyPAmb	J 1	24S.-1	270.--	241.-N	27J.NN	S.N0	l l e
BAwb m&a	2SJ 1				J6		%
BAwb m&a	2SJ 2				J-		%
Bpmb A5r	N1 1						ql w
CsOb Amb	1SN 1	267.44	24J.20	2--.77	2-6.S1	2.0N	l l e
CsOb Amb	1S6 1	2--.02	24-.42	240.04	24J.67	2.16	l l e
CsOb Amb	111 1	261.66	2-S.7J	24J.N1	2-7.J-	2.67	l l e
CsPqAmb	47 1	2-664.00	2-111.S1	2466-.2J	2-140.S2	1.JJ	l l e
CsPqAmb	44 1	2-1NJ.JJ	2-S16.S1	242N4.7J	24N7S.17	1.J4	l l e
Cspen5	12 1						ql w
Cspen5	12 2						ql w
ChPmp5r	7- 1						ql w
ChPmp5r	7- 2						ql w
Chpmb Amb	-2 2	241.N6	27J.S-	22S.J-	277.J-	4.N-	l l e
CnesP&	-J 2	24J.6J	247.S7	224.N6	27J.1J	-.70	l l e
CnI l r p	67 2	2620.NS	2-27.6J	276S.2J	2-S7.J7	-.7J	l l e
t ywl pnwAmb	1-6 1						ql w
t ywl pnwAmb	1-6 2						ql w
EpeAmb	164 1						ql w
EpeAmb	164 2						ql w
GsOnP5Amb	16S 1						ql w
GsOnP5Amb	16S 2						ql w
HnPb Amb	16- 1				J4		%
HnPb Amb	16- 2				J6		%
D5OAmb	11- 1				J2		%
D5OAmb	11- 2				J2		%
Dpn5	-4 2	120N0.6-	12647.70	1102N.4-	127N6.4J	4.64	l l e
Dpn5	-6 2	171SS.6N	17SS2.N-	121N6.24	12067.26	7.J7	l l e
Dpn5	-0 2	12627.0J	12222.-1	117J-.J6	12SNS.0-	-.1N	l l e
Kpyl &a5	N7 1						ql w
LrsO	2S6 1	1210.22	1212.7S	12S2.64	121S.02	S.61	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8sp sb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
LrsO	2S0 1	1221.62	12SJ.-4	11J4.70	12SN.-1	1.17	l l e
LrsO	2SN 1	1210.S-	12SJ.2N	12S1.24	12SJ.1J	S.6-	l l e
LA&mAmb	6 1				JS		%
Msg5rwAmb	24 2	20126.-N	267NN.77	24047.S0	26SN-.JJ	4.6N	l l e
Ms5gs5rwr	- - 2	2-2J.-4	2-0S.- -	277N.N4	240J.64	4.JJ	l l e
MnPyeOr 5mb	J4 1	2-S6.70	27- - .6N	24S7.1J	2421.0-	7.1N	l l e
MnPyeOr 5mb	J- 1	2-S2.J7	2762.S0	27N6.77	2410.11	7.12	l l e
MnPyeOr 5mb	J6 1	24J0.S2	27N7.12	27J4.N-	242-.SS	2.-N	l l e
MnPyeOr 5mb	J0 1	2-14.60	27J-.-4	277S.02	2417.64	7.N0	l l e
MnPyeOr 5mb	JN 1	24N4.42	27-4.16	276S.11	27JJ.-0	7.S0	l l e
urnOybAmb	1-S 1						ql w
urnOybAmb	1-S 2						ql w
uAqkrP	6S 2	262.4S	2-S.66	274.JJ	24J.7-	-.-2	l l e
8hnwlhnpmw	71 2	4J7-.J2	40JN.SN	4446.7J	4026.NS	-.74	l l e
8n&swwAmb	7J 2	12141.-7	11J22.S0	1124-.-S	1106J.0S	7.J0	l l e
RhnOAmb	1S7 1				JS		%
RhnOAmb	1S7 2				J7		%
3qs5OAmb	4- 1				JS		%
3qs5OAmb	4- 2				JS		%
3rP5Amb	N2 1	26-.J0	2-7.J0	2-4.27	2-N.S6	2.66	l l e
3rP5Amb	00 2	261.14	24J.12	272.46	240.-N	-.N2	l l e
3rP5Amb	0N 2	26N.J4	2-6.06	22-.66	2-S.4-	N.J1	l l e
3AAqn5	2N 1	267.64	2-2.S2	2-2.N-	2-6.10	2.-7	l l e
3ARrp	1S0 1	2-N.-J	240.4N	2-7.-S	2-7.1J	2.2S	l l e
3ARrp	1SJ 1	266.16	2-4.4-	2-7.4J	2-N.S7	2.07	l l e
3nOAmb	27 2	26NJ0.NN	2-JS7.1S	244S1.27	2-074.S0	4.NN	l l e
3&m5&Amb	N6 1	62JJ.6N	6S00.NN	-JJJ.71	612-.67	2.-4	l l e
3&m5&Amb	NN 1	671-.S4	-NN2.02	6S1J.-7	6S02.47	7.64	l l e
3mPmp	74 1	- - 7N.N0	4JNS.70	4NJ7.N7	-170.6J	6.N1	l l e
irpeAmb	1-J 1				J4		%
irpeAmb	1-J 2				J7		%
ihsPAmb	2S7 1	27S.24	226.00	227.NN	226.J6	1.4S	l l e
ihsPAmb	2S- 1	242.N2	242.6N	244.JS	247.40	S.-1	l l e
iA5	11N 1	2-2.77	27J.26	277.S0	241.- -	4.S0	l l e
iA&s5Amb	40 1	240-.76	244N.16	27-4.77	242-.J-	2.62	l l e
Ups5Amb	27N 1	274.SS	270.J2	271.2-	274.7J	1.47	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	o l r ps&mp9	aswl sP
Lse:3sb l Pr:Dr:9	3S-	D5w&mb 5r &u sb r :9	8N
CPA5&3sb l Pr:Dr:9	3S-	t Ar8A5:Fsq&mp9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219 1J	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
Vs5sOAmb	- 1 2	2- 7.4-	246.02	22J.66	247.2N	- .S4	l l e
Y&&pe Amb	102 1						ql w
Y&&pe Amb	102 2						ql w
Y&&pe Amb	106 1						ql w
Y&&pe Amb	106 2						ql w
Y&&pAmb	NJ 1				J1		%
Y&&pAmb	NJ 2				J4		%
ZA5q	66 2	24J0.27	242S.J4	2202.06	27J6.JN	4.06	l l e
ZAqn5Amb	JS 1	2- 4.11	247.21	244.J6	240.47	2.70	l l e
ZAqn5Amb	J1 1	27J.1J	271.2-	271.0N	274.S0	1.JS	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b :	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b :	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
i wNu TbTNu	2072	1S2010MM	1S1-2G4S	1S1-0G1	1S1PSG42	SGPP	r r m
i oDu Coy	12171	4P4GPM	400G6	4P0G-	4P-GP	1GS0	r r m
i eeaboTA	0M72	MS1GPP	MS6G10	MSSG00	MS2G04	SGM0	r r m
BJeTNu	1-M71	242MG00	242MG41	242SGn	242-G02	SG1-	r r m
BJeTNu	1-071	24-PGSS	2-4-GMS	2-n1GP6	2-n1G12	1G0P	r r m
Bbeywi TNu	n71	401G2n	4nSG6M	46nGS2	406G0n	2G4n	r r m
BTau NDn	2Sn71				n6		%
BTau NDn	2Sn72				n4		%
BeOu Tbb	P171						Ara
5 Jqu TNu	1SP71	4PnG6	4PPGM	4nSG22	4PnG1	SG1n	r r m
5 Jqu TNu	1S671	4P2G26	406G01	4n4G2n	4P4G42	1GPM	r r m
5 Jqu TNu	11171	4n-G22	4P-GM2	4P4G64	4P0G1-	1GSn	r r m
5 JvATNu	4-71	4P1-PG02	4nP66GSM	MS11-G2	4n-02G06	2G1P	r r m
5 JvATNu	4471	4PSS6GM0	4nnP1G2S	MS40MG14	4n4P0G64	2G64	r r m
5 JemOo	1271						Ara
5 JemOo	1272						Ara
5 hwOeTbb	-M71						Ara
5 hwOeTbb	-M72						Ara
5 heOu TNu	M272	4PMGMM	4PMG01	4P-G02	4PMGS6	SG2S	r r m
5 OmJwD	Mh72	4nSG04	4n2GS0	4n6G46	4n-G16	SGMh	r r m
5 Orr be	6-72	M1-6G1S	M1S1GM6	M12-GSM	M12SG24	SG4	r r m
I yar eOaTNu	1M671						Ara
I yar eOaTNu	1M672						Ara
EemTNu	16471						Ara
EemTNu	16472						Ara
GJqOwbTNu	16S71						Ara
GJqOwbTNu	16S72						Ara
HOw TNu	16M71				n6		%
HOw TNu	16M72				nM		%
poqTNu	11M71				n2		%
poqTNu	11M72				nS		%
peOo	M472	26Pn-GP	201PnGP4	20M4PG12	2021SG4M	1G2S	r r m
peOo	M672	26-P2GS0	2Mh0PG6-	264-0GMP	26266GSn	SG0M	r r m
peOo	M072	2MSP1G1P	2MSSSG0n	2M-S0GPP	2M12nG0M	SG6-	r r m
Keyr DDo	P-71						Ara
LbJq	2S671	2-nSG2-	2-nMG20	2--MGP4	2-0-GGP	1Gn	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b:	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq:	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b:	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
LbJq	2S071	2-PMSSn	2410G41	2-4PC1P	2-P-0M6	1G4M	r r m
LbJq	2SP71	2-66G26	24S6GS0	2-6MSS0	2-0nC1-	SG0P	r r m
LTDTNu	671				P6		%
g JvobaTNu	2472	M-P0SC0S	M2S20G64	M26SSG0-	M2P--GS2	1C0n	r r m
g JovJobab	MW72	MSM-G04	M1n1CM2	M16SG0S	M1-MG4M	1G41	r r m
g OymqboNu	n471	4MP2G-4	4nSMC04	4PSnG2n	406MC02	-G4P	r r m
g OymqboNu	nM71	462nG0P	4Pn2GP0	4PMPG26	40n-C0S	2G0P	r r m
g OymqboNu	n671	466MG61	4n41G66	4P-2GSM	4P1-C11	2GPn	r r m
g OymqboNu	n071	46P2G-M	4n40G01	40-MG-P	40PPC0M	2G0-	r r m
g OymqboNu	nP71	466SG-S	MS1PGP1	406MG04	4P1MSS2	-GP-	r r m
8 bOqyu TNu	1MS71						Ara
8 bOqyu TNu	1MS72						Ara
8 TAkbw	6S72	M16G0n	M12C1M	M1-G62	M14G2M	SG4P	r r m
I hOarhOaNa	-172	1S2M-G62	n646C14	1S1M1G40	1SS10GS0	-G2M	r r m
I CDJaaTNu	-n72	24n1MG0n	2MP2SC0M6	2M-PSC0M2	2M-02G6	1C0P	r r m
UhOqTNu	1S-71				Pn		%
UhOqTNu	1S-72				nS		%
3AJoqTNu	4M71				nS		%
3AJoqTNu	4M72				P0		%
3bwoTNu	P271	400G6n	MS2G-2	4n-G20	4n1GSn	2C04	r r m
3bwoTNu	0072	M1-G40	M10G00	M440CM	M2MG-	-G2S	r r m
3bwoTNu	0P72	M24C1-	M11G-1	MS6G-0	M1-G04	1C0P	r r m
3TWAOo	2P71	4n6G4P	4n1G-S	4n-G26	4n-G6P	SC04	r r m
3TWbe	1S071	4n6G66	4PnG-4	MSSG40	4nMG4n	1G14	r r m
3TWbe	1Sn71	4n6G0P	4n6G42	4nSGS-	4n4G4P	SG0P	r r m
3OqTNu	2-72	M-62MC1S	M2M12C01	M-nnPG6-	M--0PGP1	1G4M	r r m
3DaOoDTNu	P671	1140SGS-	12240GP6	11n-nG4n	11PPMC0n	-G-S	r r m
3DaOoDTNu	PP71	11641C04	1241-G-	12Sn4G2n	12S4nC02	-G22	r r m
3NvNe	-471	n1P-GP6	n-nMSSS	n6n2G4-	n42-G00	2C01	r r m
&bemTNu	1Mh71				n6		%
&bemTNu	1Mh72				n6		%
&hJwTNu	2S-71	400C0M1	4n1GS6	401C0M0	4PSGSM	2GSP	r r m
&hJwTNu	2SM71	4P1GS0	4P4G46	401G-S	40PG04	1G4-	r r m
&Tb	11P71	4P4C01	4P6GSP	4P4G6M	4PMC1M	SG10	r r m
&TDJoTNu	4071	404PG61	4P-2GS-	4n2-G4P	4P-4C01	1GP1	r r m
FeJoTNu	2-P71	4MPG24	40nG4M	40-G10	40SG2n	2G-2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S6	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:24:10	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
VJoJqTNu	M172	MS6G 0	MS6G2P	MS6G M	MS6G -	SGS1	r r m
YDDemTNu	10271						Ar a
YDDemTNu	10272						Ar a
YDDemTNu	10671						Ar a
YDDemTNu	10672						Ar a
YDDeTNu	Pn71				n1		%
YDDeTNu	Pn72				n1		%
ZTbA	6672	4n4MD10	4n24G4P	4nS0G-	4n2MDP6	SG P	r r m
ZTbACoTNu	nS71	460GD2	4PSG41	4nMGM	4P1G 6	2G4	r r m
ZTbACoTNu	n171	44PG2M	40SGM0	464G12	46SGP	2G4n	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
i lNu TbTNu	2072	1g90g590	2SS0M52-	1g9MS5-1	1gg-M514	S561	r r m
i oDu Coy	12171	g-4590	1Sg0590	ggg52S	1S1S56M	9512	r r m
i esboTA	0M72	1SS650M	g9051-	1SS0522	1SSS5-6	151M	r r m
BaeTNu	1-M71	46g2524	M4--56M	MS1659g	MS405Mg	05-6	r r m
BaeTNu	1-071	40--5M0	M40-50-	4gM95g6	MSMM642	05MS	r r m
BbeylITNu	g71	gg1514	1S6g5M9	g0g566	1S1-546	459-	r r m
BTsu NDn	2Sg71				g-		%
BTsu NDn	2Sg72				g4		%
BeOu Tbb	9171						Ar s
naqu TNu	1S971	g-05-2	1S6g52g	gg951M	1SS15Mg	65Mg	r r m
naqu TNu	1S671	g-0510	1S0g59g	1SS1502	1SS6526	051S	r r m
naqu TNu	11171	g4S52g	1S09594	gg1569	1SS-56S	65g9	r r m
nalATNu	4-71	1S-S4S501	11g-415M6	1S001-511	11SS-150g	056-	r r m
nalATNu	4471	g6S2M5gg	1Sg4M15-9	1SSMg15S4	1S2S2259S	656g	r r m
naemOo	1271						Ar s
naemOo	1272						Ar s
nhlOeTbb	-M71						Ar s
nhlOeTbb	-M72						Ar s
nheOu TNu	M272	1S26569	1S10522	gg2510	1S1252	1506	r r m
nOmalD	Mg72	1S19510	1S16519	g9-5g1	1SS65Sg	15g1	r r m
nOr r be	6-72	g90M5S1	1SS9-5-4	g929592	gg2g5S6	15-0	r r m
I ysr eOs TNu	1M671						Ar s
I ysr eOs TNu	1M672						Ar s
EemTNu	16471						Ar s
EemTNu	16472						Ar s
GaqOTbTNu	16S71						Ar s
GaqOTbTNu	16S72						Ar s
HOlu TNu	16M71				g6		%
HOlu TNu	16M72				g9		%
poqTNu	11M71				9g		%
poqTNu	11M72				g1		%
peOo	M472	M290954M	M29Mg544	M1g0S542	M2M6g544	S5gg	r r m
peOo	M672	M26S954M	M1-645gS	MSMMS5-0	M1MS05g1	25S1	r r m
peOo	M072	M2-1-51M	M1g-65gS	M14905M4	M1g125M4	S59S	r r m
Keyr DDo	9-71						Ar s
Lbaq	2S671	496256M	M-9956S	4gMg51M	MS0S51-	M5M2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	49- - 50M	M-44512	MS21516	MS665-M	M61S	r r m
Lbaq	2S971	494S526	M-94566	4g0g50S	MS69521	M5M9	r r m
LTDbTNu	671				92		%
v aRobsTNu	2472	1S-g94501	1SM16252S	1S1g-S544	1S-6g254M	15M9	r r m
v aoRaobsb	MM72	ggM-514	g99452M	gg965g9	gg4154M	S5M-	r r m
v Clymqboi Nu	g471	gM26540	11SM25-4	g0gM592	1S124599	95S4	r r m
v Clymqboi Nu	gM71	g410560	1Sg6-521	ggM6590	1S1125M9	0506	r r m
v Clymqboi Nu	g671	g-g05- -	1Sg-9511	gg6650S	1S1SS501	0501	r r m
v Clymqboi Nu	g071	g4g954-	1Sgg451g	g9Mg5-1	1S1105-1	0501	r r m
v Clymqboi Nu	g971	g42S561	1S9-M52g	1SS0155 2	1S1S95g9	05SS	r r m
8 bOqyu TNu	1MS71						Ar s
8 bOqyu TNu	1MS72						Ar s
8 TAkbl	6S72	gg2524	gg95g4	g9M5S0	gg25S9	S50S	r r m
PhOsr hOaNs	- 172	1g6S155 4	2SM2-5g1	2SS6M5-S	2SS6-542	25-S	r r m
PODassTNu	- g72	MS4M-519	4gg-g50g	MS99152-	MS4245 0-	S5g-	r r m
F hOqTNu	1S-71				90		%
F hOqTNu	1S-72				g1		%
3 AaoqTNu	4M71				90		%
3 AaoqTNu	4M72				gS		%
3 blboTNu	9271	g-9526	1S9M566	g0056S	1SSS5M1	056-	r r m
3 blboTNu	0072	g0-54S	g9059g	1SSS5SS	g9051S	15-M	r r m
3 blboTNu	0972	gg15-M	g94506	gg650-	ggS5gM	S561	r r m
3 TTAOo	2971	g42561	1S66549	g9g5g9	ggg56g	652M	r r m
3 TUbe	1S071	g46590	1S015-S	g9259S	1SSS5-2	654S	r r m
3 TUbe	1Sg71	g2059g	1S965g0	g9-591	ggg5M6	95S0	r r m
3 OqTNu	2-72	1S20S1564	1SM1- - 526	1S260S5MM	1S-MS1591	15-0	r r m
3 DaOoDTNu	9671	2-9SS54g	20-665g9	2401g5gS	2M2gM50g	05-2	r r m
3 DaOoDTNu	9971	2-9S650S	2016M51S	24046564	2M2-g549	6596	r r m
3 NifNe	- 471	19-145g4	22S1M5g1	1g96151S	2SS6-5g9	g526	r r m
&bemTNu	1Mg71				g4		%
&bemTNu	1Mg72				g0		%
&hallTNu	2S-71	g665g1	1SgM540	g9M5M4	1S1M5g0	6594	r r m
&hallTNu	2SM71	g01529	1S96599	g065M6	1S115M0	654M	r r m
&To	11971	g4952g	1S94569	gg4516	1SSg5SM	6599	r r m
&TaoTNu	4071	g4M05gg	1S6065SM	1S1M2514	1SSgM5-g	65SM	r r m
. eaoTNu	2-971	gM05- -	111450S	g94522	1S1950M	9526	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	M172	gg45gg	1SS05g-	gg25S9	gg95-	S59M	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDaTNu	9g71				gS		%
YDDaTNu	9g72				g-		%
ZTbA	6672	ggMM50M	1S21M55S6	1SS1- 544	1SS6154-2	15- M	r r m
ZTbAOoTNu	gS71	g4M5gg	1111500	g0154g	1SSg50M	9594	r r m
ZTbAOoTNu	g171	gM-520	111S569	1SS65- 1	1S2- 542	059-	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0e:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNEbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTs
i lNu TbTNu	20 2	g- M-150M	g- M715-2	1S2- 04566	gggg65S-	254g	r r m
i oDu Coy	121 1	S5M6	S562	S5-2	S560	2S5g6	r r m
i esboTA	0M2	S570	S54S	S5M0	S54M	2757S	r r m
BaeTNu	17M1	750g	75MS	75Mg	7567	455-	r r m
BaeTNu	170 1	756-	455 0	756S	750-	6501	r r m
Bbey/lTNu	g 1	S527	S51-	S527	S521	1M516	r r m
BTsu NDn	2Sg 1				- 7		%
BTsu NDn	2Sg 2				- -		%
BeOu Tbb	- 1 1						Ar s
n aqu TNu	1S- 1	S5g2	S500	S5-0	S5-M	g54S	r r m
n aqu TNu	1S6 1	75MM	156S	15-2	2572		r r m
n aqu TNu	111 1	S5M2	S5M4	S546	S5M1	- 502	r r m
n alATNu	47 1	46240254 4	MMSgg25-g	4- SM-S561	4g- S1M572	g57g	r r m
n alATNu	44 1	40SS7- 5-1	M4g1M15-2	40g6gM64M	4gg62- 56g	- 564	r r m
n aemOo	12 1						Ar s
n aemOo	12 2						Ar s
n hlOeTbb	7M1						Ar s
n hlOeTbb	7M2						Ar s
n heOu TNu	M2 2	M51-	M544	M52-	M57S	25MM	r r m
n OmalD	Mg 2	2574	2570	257M	2576	S561	r r m
n Or r be	67 2	757S	752g	7574	7571	S5-1	r r m
l ysr eOs TNu	1M6 1						Ar s
l ysr eOs TNu	1M6 2						Ar s
EemTNu	164 1						Ar s
EemTNu	164 2						Ar s
GaqOTbTNu	16S 1						Ar s
GaqOTbTNu	16S 2						Ar s
HOlu TNu	16M1				g1		%
HOlu TNu	16M2				g0		%
poqTNu	11M1				- 4		%
poqTNu	11M2				g1		%
peOo	M4 2	24gS675M0	2M1M-45gM	2401445S6	24g2645 1g	S5-g	r r m
peOo	M6 2	2467- 156g	2M70425-M	24- M145M1	24gM4657M	15M2	r r m
peOo	M0 2	24- 66452g	24046S562	2M204M66g	24g6275M7	1511	r r m
Keyr DDo	- 7 1						Ar s
Lbaq	2S6 1	2566	250g	25-M	2500	757M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTb
Lbaq	2S0 1	755 4	25M6	2566	250M	g51S	r r m
Lbaq	2S- 1	25g6	2501	2507	25- S	45g1	r r m
LTbTNu	6 1				06		%
v aRobsTNu	24 2	4gg- M452M	4g01425 02	4gg66- 5Mg	4g- - - - 5M2	S57S	r r m
v aoRaobsb	MM2	0527	052-	0547	0571	1541	r r m
v Clymqboi Nu	g4 1	45MS	7501	450S	4571	12514	r r m
v Clymqboi Nu	gM1	4517	756S	7506	75- 7	0511	r r m
v Clymqboi Nu	g6 1	457M	750S	452g	4511	- 5- 1	r r m
v Clymqboi Nu	g0 1	75gg	7561	4522	75g4	05- 0	r r m
v Clymqboi Nu	g- 1	4576	7512	45S-	75- M	165g2	r r m
8 bOqyu TNu	1MS 1						Ar s
8 bOqyu TNu	1MS 2						Ar s
8 TAkbl	6S 2	M5S0	45- 4	4506	45- g	7520	r r m
PhOsr hOeNs	71 2	745g2	0501	12566	1752g		r r m
PODassTNu	7g 2	24- 1g- 54g	24g7S7544	2M224M5S6	24gg1M560	S5- 4	r r m
F hOqTNu	1S7 1				0g		%
F hOqTNu	1S7 2				- M		%
3 AaoqTNu	4M1				- 7		%
3 AaoqTNu	4M2				gS		%
3 blboTNu	- 2 1	M50g	M574	45MM	M527	115g4	r r m
3 blboTNu	00 2	7524	M5Mg	4541	4541	26560	r r m
3 blboTNu	0- 2	M52-	4566	- 564	651g	745MM	r r m
3 TTAOo	2- 1	1S5S4	1M51-	175- 6	175S7	2S54-	r r m
3 TUbe	1S0 1	S516	S522	S516	S51-	1- 5MM	r r m
3 TUbe	1Sg 1	S51-	S51g	S516	S51-	1S576	r r m
3 OqTNu	27 2	4gM2715 1M	MS7- 17540	4g0677517	4g- - g25M-	S5- g	r r m
3 DaOoDTNu	- 6 1	- 51S	655-	65- 0	0522	1S566	r r m
3 DaOoDTNu	- - 1	0512	M5S0	6562	6520	105SS	r r m
3 NfNe	74 1	7152S	17- 2522	- 7502	447527	1- 75g2	r r m
&bemTNu	1Mg 1				gS		%
&bemTNu	1Mg 2				g6		%
&hallTNu	2S7 1	S571	S572	S52g	S571	45g7	r r m
&hallTNu	2SM1	S574	S57S	S577	S572	M5M0	r r m
&Tb	11- 1	S56S	S5Mg	S5M-	S5Mg	15M2	r r m
&DaoTNu	40 1	25g7	15- S	7517	2562	2052g	r r m
. eaoTNu	27- 1	S527	S52S	S527	S522	056g	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaDDe:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posDaNu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTs
VaoaqTNu	M1 2	S57M	S57S	S570	S574	g54M	r r m
YDDbemTNu	102 1						Ar s
YDDbemTNu	102 2						Ar s
YDDbemTNu	106 1						Ar s
YDDbemTNu	106 2						Ar s
YDDbTNu	- g 1				- 6		%
YDDbTNu	- g 2				g4		%
ZTbA	66 2	1S5g1	1S5Mg	1S5- 0	1S50g	15Mg	r r m
ZTbACoTNu	gS 1	S5M4	S5M4	S562	S5M6	- 5- 1	r r m
ZTbACoTNu	g1 1	S5M	S561	S5M	S5Mg	75M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t &pJ&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- &pCTDwe t &pJ&JaJ	3- 7 S0	&cbT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc&pJmwe pJa	S1 3- 7.o

Nwlwe pTpl	Mwl l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
q&be cCcbe	2092	4y: .uy	4u2.16	4u1.Sy	4u .02	1.46	t t r
qCTce 5Ch	12191	1y0.21	1u4.6u	1u6. u	1uy.4y	: . 6	t t r
qll pCcd	0 92	2S: .1	2Sy.S0	2S6.SS	2S6.Su	1.44	t t r
Bwlcbe	1: 91	yu.: 1	y1.: 1	y4.yu	y4.u0	: .6y	t t r
Bwlcbe	1: 091	yu.y1	yS. 1	y2.10	y: .u6	4.04	t t r
Bplh&cbe	y91	yu.16	y4. u	1SS.2u	y0.60	2.y	t t r
Bdc e bT%	2Sy91				1S1		E
Bdc e bT%	2Sy92				1S2		E
Bl5e cCp	u191						dt l
- woe cbe	1Su91	uy.21	u1.u4	u2.6S	u4.	4.0y	t t r
- woe cbe	1S691	u .0	0u.6u	04.6S	0y.6u	0.Su	t t r
- woe cbe	11191	1S4.uy	yy.y:	1SS.40	1S1.06	2.60	t t r
- w&lcbe	4: 91	1u: S.12	1001.0u	10 u.yy	10u6.y6	2.12	t t r
- w&lcbe	4491	1u: : .11	10 S.: 4	1uS4.: 2	10y .y2	2.: 4	t t r
- wlr 5C	1291						dt l
- wlr 5C	1292						dt l
- %&5lcCp	: 91						dt l
- %&5lcCp	: 92						dt l
- %l5e cbe	292	y .S4	y .41	y4. 1	y4.yy	S.40	t t r
- 5r w&T	y92	yu.0	y0.4S	y0. 1	y0.uu	S.00	t t r
- 5t t pl	6: 92	y6.1:	y6.Sy	y: .11	y .11	1.u2	t t r
&hl t l5l cbe	1 691						dt l
&hl t l5l cbe	1 692						dt l
Glr cbe	16491						dt l
Glr cbe	16492						dt l
Hwo5&Ccbe	16S91						dt l
Hwo5&Ccbe	16S92						dt l
K5&e cbe	16 91				yy		E
K5&e cbe	16 92				1S1		E
3Ccbe	11 91				1SS		E
3Ccbe	11 92				1S1		E
35C	492	1yu .0y	1y6 .4S	1y04.: 6	1y0 .1u	S. 2	t t r
35C	692	2S: 2.1u	2S1: .6S	2S2 .1:	2S2: .64	S.46	t t r
35C	092	1y2S.u0	1uy .y2	1y1y.y4	1y12.24	S.04	t t r
klht T5C	u: 91						dt l
Lpwo	2S691	1y4.06	1y2.4u	1y: . u	1y: .6S	S. y	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- 8pCTDwe t 8pJ8&JaJ	3- 7 S0	&cbT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFcbJmwe pJa	S1 3- 7.o

NwIwe pTpl	MwI l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
Lpwo	2S091	1y2.: 2	1u .01	1uu.Su	1uu.01	1.00	t t r
Lpwo	2Su91	2S .61	2SS.S:	1yy.0u	2S1.u1	1.6:	t t r
LdP%cbe	691				y4		E
MwgCpl cbe	2492	11: S. u	1120.46	112u.u4	112u.y6	S.14	t t r
MwCgwCpl p	92	y: .2S	y4.10	y: .46	y: .61	S. :	t t r
M58hr opCbe	y491	S.10	S.14	S.1u	S.16	12.16	t t r
M58hr opCbe	y 91	S.11	S.1:	S.Sy	S.11	2S.S4	t t r
M58hr opCbe	y691	S.1:	S.1u	S.1u	S.16	1u.26	t t r
M58hr opCbe	y091	S.Sy	S.11	S.Sy	S.1S	14.24	t t r
M58hr opCbe	yu91	S.12	S.12	S.12	S.12	2.16	t t r
mp5ohe cbe	1 S91						dt l
mp5ohe cbe	1 S92						dt l
mcdf p8	6S92	1Sy.:	1S0.20	1S6.y2	1S0.u	1.22	t t r
N%5l t %5lbl	: 192	9S.: 2	91u.0	92: .4	914.10		t t r
N5TWl cbe	: y92	1u6y.0y	1u 4.: u	1u: S.20	1u 1.4u	1.Su	t t r
R%5ocbe	1S: 91				yy		E
R%5ocbe	1S: 92				1S2		E
DdwCocbe	4 91				yu		E
DdwCocbe	4 92				yy		E
Dp8pCcbe	u291	2Sy.11	21S.2y	2S . :	2Su.: 1	1.1y	t t r
Dp8pCcbe	0092	2S: .SS	214.yy	2S4.01	2S0. 0	: .1:	t t r
Dp8pCcbe	0u92	21: .64	21y.26	210.: u	216.06	1.: 2	t t r
Dc8d5C	2u91	S.4	S.1y	S.2:	S.2y	4u.yS	t t r
Dc8vpl	1S091	4y.u6	46.6y	40.: 0	40.y0	: .4u	t t r
Dc8vpl	1Sy91	4y.4S	46.0u	40.:	40.u4	2.uy	t t r
D5ocbe	2: 92	1y6y. u	1y S.Su	1y42.60	1y 4.11	S.01	t t r
DT5CTbe	u691	S.44	S.21	S.24	S.: S	42.10	t t r
DT5CTbe	uu91	S.: 1	S.2	S.24	S.20	14. 1	t t r
Db8%l	: 491	106.4y	94: S.SS	91 2.01	91: .41		t t r
Aplr cbe	1 y91				1S1		E
Aplr cbe	1 y92				1S2		E
A%w8bbe	2S: 91	2S6.6u	2S: .10	1y0.y:	2S2. y	2.10	t t r
A%w8bbe	2S 91	21: .62	21S.1	211.yS	211.uy	S.u2	t t r
AcC	11u91	S.12	S.S:	S.S1	S.S	1Su.y	t t r
AcTWCcbe	4091	S.Su	S.S	S.S4	S.S	: y.02	t t r
UlwCcbe	2: u91	S.S1	S.S1	S.S1	S.S1	: .SS	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r pIJa	LB1264S0	n t pIwT5IJa	swI Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3C1 TIbe CpTJmwe pJa	Nu
- 8pCTJDwe t 8pJ8&JaJ	3- 7 S0	&c8bT5CJFwdT5IJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

NwIwe pTpI	MwI I	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
7wCwodbe	192	y6.4y	y0.1:	y0.6	y0.Sy	S.6S	t t r
YTTpIr dbe	10291						dt I
YTTpIr dbe	10292						dt I
YTTpIr dbe	10691						dt I
YTTpIr dbe	10692						dt I
YTTrdbe	uy91				yu		E
YTTrdbe	uy92				1S2		E
ZdCd	6692	1yS. 2	1uy.y	1u6.6S	1uy.S2	1.12	t t r
Zdd5Cdbe	yS91	S.S2	S.S2	S.S1	S.S2	41.1:	t t r
Zdd5Cdbe	y191	S.Su	S.Su	S.S0	S.S0	.S2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t 8p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- 8pCT9Dwe t 8p9&9J9	3- BS07	&8bT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l Jl0Jla	&wTwUd8p9mwe p9J	S16- - B. Fo

Nwlwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
q8be cCbe	20:2	SF22	SF56	:SF16	SF54	40aFua	t t r
qCTe 5Ch	121:1	SF12	SF11	SF16	SF1	21F06	t t r
qll pCcd	07:2	SF5u	SF56	SF5	SF57	40Fau	t t r
Bwlcbe	1 7:1	SF51	SF5	SF5	SF52	66F67	t t r
Bwlcbe	1 0:1	SF52	SF51	SF5	SF52	77F7S	t t r
Bplh8bbe	a:1	SF5	SF5	SF52	SF5	1aFu	t t r
Bdc e bT%	2Sa:1				1S2		E
Bdc e bT%	2Sa:2				1SS		E
Bl5e cCp	u1:1						dt l
- woe cbe	1Su:1	:SF51	SF1u	SF11	SF5a	1S4F0u	t t r
- woe cbe	1S6:1	:SF66	:7F42	: F5S	: F5		t t r
- woe cbe	111:1	SF52	:SF57	:SF51	:SF51		t t r
- w8lcbe	4 :1	:2Fa2	:SF S	:2Fa7	:2F56		t t r
- w8lcbe	44:1	1 F1a	17F0a	14Fa7	14F64	aF5a	t t r
- wlr 5C	12:1						dt l
- wlr 5C	12:2						dt l
- %5lcCp	7:1						dt l
- %5lcCp	7:2						dt l
- %5e cbe	72:2	:SF51	:SF52	:SF51	:SF52		t t r
- 5r w8T	7a:2	SF52	SF5S	SF52	SF51	6uF1S	t t r
- 5t t pl	6 :2	SF5u	SF56	SF50	SF50	14F47	t t r
&hl t l5l cbe	176:1						dt l
&hl t l5l cbe	176:2						dt l
. lr cbe	164:1						dt l
. lr cbe	164:2						dt l
Gwo58Ccbe	16S:1						dt l
Gwo58Ccbe	16S:2						dt l
H58e cbe	167:1				1SS		E
H58e cbe	167:2				1SS		E
3Ccbe	117:1				aa		E
3Ccbe	117:2				1SS		E
35C	74:2	1F61	1F2	1F00	1F7	1uF2	t t r
35C	76:2	SF74	SF u	SF 0	SF4	21F07	t t r
35C	70:2	:1F56	:SF60	:SF71	:SF04		t t r
KIht T5C	u :1						dt l
Lpwo	2S6:1	SF50	SF57	SF50	SF56	10F0	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l Jl0Jla	&wTwUdp9mwe p9J	S16- - B. Fo

NwIwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
Lpwo	2S0:1	SF5S7	SF5S4	SF5S7	SF5S7	17F6u	t t r
Lpwo	2Su:1	SF5S0	SF5S0	SF5S7	SF5S6	10Fu1	t t r
LdT%dbe	6:1				a		E
y wMCpl dbe	24:2	SF17	SF 1	SF u	SF2u	4SFu6	t t r
y wCMwCpl p	77:2	SF5SS	SF5S1	SF5S2	SF5S1	12 F21	t t r
y 58hr opCbe	a4:1	SF5S7	SF5S	SF5S1	SF5S	61Fu	t t r
y 58hr opCbe	a7:1	SF5S2	SF5SS	SF5SS	SF5S1	16aF 6	t t r
y 58hr opCbe	a6:1	SF5S2	SF5S2	SF5S2	SF5S2	uF2S	t t r
y 58hr opCbe	a0:1	SF5S2	SF5SS	SF5S2	SF5S1	117Fu1	t t r
y 58hr opCbe	au:1	SF5S1	SF5S1	SF5S1	SF5S1	44F60	t t r
mp5ohe dbe	17S:1						dt l
mp5ohe dbe	17S:2						dt l
mdkp8	6S:2	SF5S2	SF5S2	:SF5S1	SF5S1	17SFa7	t t r
N%5l t %5lbl	1:2	:21Fau	26F0	:2SF60	:7F 1		t t r
N5TWl dbe	a:2	uF66	4Fu	6FaS	6FuS	2uF2	t t r
v %5odbe	1S :1				1S1		E
v %5odbe	1S :2				aa		E
DdwCodbe	47:1				aa		E
DdwCodbe	47:2				a0		E
Dp&pCdbe	u2:1	:SF60	SF5S1	:SF 6	:SF 4		t t r
Dp&pCdbe	00:2	SF04	:SF u	:SF u	:SF5S1		t t r
Dp&pCdbe	0u:2	SF16	SFu2	SF62	SF7	64FS2	t t r
Dc&d5C	2u:1	SF5S1	SF5S4	:SF5S0	:SF5S1		t t r
Dc&gpl	1S0:1	SF5S2	SF5S4	SF5S4	SF5S	27F67	t t r
Dc&gpl	1Sa:1	SF5S4	SF5S2	SF5S4	SF5S	7Fu4	t t r
D5odbe	2 :2	24F S	21F4	22F60	22FuS	6F 2	t t r
DTT5CTbe	u6:1	SF5S7	SF5Su	:SF5S1	SF5S4	1S0F10	t t r
DTT5CTbe	uu:1	SF5S7	SF5S1	SF5S1	SF5S2	124Faa	t t r
Db&bl	4:1	:4uuF0	:1a1F62	:26 Fa7	: 14F00		t t r
Aplr dbe	17a:1				1SS		E
Aplr dbe	17a:2				1SS		E
A%w&bbe	2S :1	SF5Sa	SF5S0	SF5Su	SF5Su	16F7	t t r
A%w&bbe	2S7:1	SF5Su	SF5Su	SF5Su	SF5Su	FaS	t t r
AdC	11u:1	:SF5S	:SF5S	SF5SS	:SF5S2		t t r
AdTWdbe	40:1	:SF1S	:SF5S	SF5SS	:SF5S4		t t r
RlwCdbe	2 u:1	SF5SS	SF5SS	SF5SS	SF5SS	26aF 2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129I J10J1a	&wTwUc&p9mwe p9J	S16- - B. Fo

NwIwe pTpI	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
VwCwodbe	71:2	SF5	:SF51	SF5S	SF51	S0Fu4	t t r
YTTpIr dbe	102:1						dt l
YTTpIr dbe	102:2						dt l
YTTpIr dbe	106:1						dt l
YTTpIr dbe	106:2						dt l
YTTrdbe	ua:1				aa		E
YTTrdbe	ua:2				1SS		E
ZdCd	66:2	SF57	SF50	SF27	SF12	a1F64	t t r
Zdcd5Cdbe	aS:1	SF5S	SF51	SF5S	SF51	01Fu1	t t r
Zdcd5Cdbe	a1:1	:SF52	:SF52	:SF51	:SF52		t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otIDTnDas	wIP8IN
LIpa7IrtNa&aa	3-7 S0:	5PTder 5lTabIrIas	um
-N5TA7IrtNa&aa	3-7 S0:	&dNTn5aIqTnDas	1
&ITaiaAcrIaqdedDOas	2S29JS0J12a19s2Ss24	&IT.dNabIrIas	S103-7 CC

ulDrITD	gIPP	-n5UIt1	-n5UIt2	-n5UIt9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M24SCm4	Mm16MCm0	Mm21:C49	M02SmC01	1C0:	ttp
5Tcn5y	121J1	1C4:	1C90	1C24	1C9:	0C02	ttp
DPI5cq	0:J2	SCm	SC69	SCm	SC6S	:CS6	ttp
BIDcer	19:J1	1C4m	1C9:	1C4S	1C41	4C6	ttp
BIDcer	190J1	1C42	1C9S	1C94	1C96	4C41	ttp
BIDyNder	MJ1	SC9S	SC92	SC2m	SC9S	6C40	ttp
BcPreTn	2SMJ1				M9		%
BcPreTn	2SMJ2				M4		%
BDnrc5I	m1J1						qtP
-IOrcer	1SmJ1	10C10	14C06	14Cm4	1:CM	mC06	ttp
-IOrcer	1S6J1	J1C4S	J1Cmm	J:CS9	J2C00		ttp
-IOrcer	111J1	SC6	SC6M	SC4M	SCm	1mC2M	ttp
-INqcer	49J1	M2m4MC6S	M9m4MC69	M92:C46	M4SSmC29	1C92	ttp
-INqcer	44J1	M2M06CM1	M1M9CS9	M2mMmC20	M26SMC4S	SC62	ttp
-IDpn5	12J1						qtP
-IDpn5	12J2						qtP
-hNDc5I	9:J1						qtP
-hNDc5I	9:J2						qtP
-hDnrcer	:2J2	1MC4S	1MC19	1MCDS	1MC41	1C4m	ttp
-npINT	:MJ2	1C2S	1C22	1C1m	1C2S	1C66	ttp
-nttID	69J2	0C24	0C4S	0C12	0C2:	1CM6	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GIOnNscer	16SJ1						qtP
GIOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				Mm		%
5Ocer	11:J1				M2		%
5Ocer	11:J2				M9		%
3Dn5	:4J2	1SSM04C10	MMSm4C94	MMS21CS0	MM6M9C1M	1C11	ttp
3Dn5	:6J2	MmM2mC64	1SS2MSCCm	Mm6m2CS9	MM9SSC4M	SCm0	ttp
3Dn5	:0J2	1S1264C42	1S9SS9C9m	1S10:SCMS	1S2SS6C29	SCmm	ttp
KDytTn5	m9J1						qtP
LIIO	2S6J1	4C9:	4C61	4Cm0	4C61	:C64	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 S0:	35PTDer 5lTabl r las	um
-Nl5Ta7lrtNla8&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcr la qdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablr las	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LllO	2S0J1	4C14	4C24	4C2S	4C1M	1C22	ttp
LllO	2SmJ1	4C29	4C9M	4CCS	4C90	9CS4	ttp
LdThcer	6J1				mm		%
glv5lPcer	24J2	M4020CM9	M62S2C62	M S::C9M	M 92mC6:	SC01	ttp
gl5vl5lPl	::J2	0C9m	0C61	0C62	0CC9	1C01	ttp
gnNypCl5er	M4J1	1466C9S	140mCM2	14MSC10	140mC6M	SC09	ttp
gnNypCl5er	M J1	10M4CCM	101MCCM	10MCC9	100SCCS	2CCS	ttp
gnNypCl5er	M6J1	1061CCM	10S2CMm	10:4CM9	109MCm4	1Cm4	ttp
gnNypCl5er	M0J1	10mmC62	10:1CC1	100mCm	1002CC0	1CSm	ttp
gnNypCl5er	MmJ1	1mSMCM1	1069C6M	10MMC9m	10MSCCM	1C9:	ttp
blnOyrcer	1:SJ1						qtP
blnOyrcer	1:SJ2						qtP
bcqklN	6SJ2	:CM6	:Cm1	6CSm	:CM	2C2:	ttp
uhnPthnDeP	91J2	M0M6SCCm	MMSS2C69	M00:4CCS	Mm29MCCS	SC6m	ttp
unTPPcer	9MJ2	M 0M9C96	M4m26C9:	M611mCm	M:0MCC2	SCCS	ttp
UhnOcer	1S9J1				M1		%
UhnOcer	1S9J2				M9		%
7ql5Ocer	4:J1				M2		%
7ql5Ocer	4:J2				M1		%
7lNl5cer	m2J1	JSCS6	JSC24	JSCSM	JSC19		ttp
7lNl5cer	00J2	JSC9m	JSC9m	JSC9m	JSC9m		ttp
7lNl5cer	0mJ2	JSC9m	JSC61	SC10	JSC2m		ttp
7dqn5	2mJ1	2C92	2C10	2C2S	2C29	9C0:	ttp
7dNlD	1S0J1	SCS2	SCS2	SCS9	SCS2	10C00	ttp
7dNlD	1SMJ1	SCS2	SCS4	SCS2	SCS2	41CS0	ttp
7nOcer	29J2	1S260MC6:	1S2141C4M	1S1006C6:	1S21MMC26	SC44	ttp
7TDn5Tcer	m6J1	910CM1	9SCmS	910CM9	91C:	2CS:	ttp
7TDn5Tcer	mmJ1	92C60	91C4m	91C2	91CmM	2C11	ttp
7eNeD	94J1	04::C4M	04S61C4:	04MS:C42	04:S6C4:	SC0	ttp
AlDpcer	1:MJ1				M6		%
AlDpcer	1:MJ2				Mm		%
AhlNter	2S9J1	SC24	SC24	SC1M	SC22	12CS1	ttp
AhlNter	2S:J1	SC1m	SC2:	SC2S	SC21	10C90	ttp
Ac5	11mJ1	SC94	SC29	SC41	SC99	2mC4M	ttp
AcT5cer	40J1	1MS6C2:	1M62C66	1M62C24	1M49C01	1C60	ttp
FD5cer	29mJ1	SCS9	SCS2	SCS9	SCS9	19C91	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDTnDas	wlP8lN
LIpa7lrtNa&aa	3-7 S0:	35PTDer 5lTabIrlas	um
-Nv5Ta7lrtNa&aa	3-7 S0:	&dvTn5alqTnDas	1
&lTiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	SC24	SC1:	SC1m	SC1M	2:CS0	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M9		%
YTDcer	mMJ2				M4		%
Zc5q	66J2	1SC4m	1SCM2	1SCS1	1SC40	4C96	ttp
ZcDqn5cer	M6J1	SCS2	SCS1	SCS9	SCS2	09C91	ttp
ZcDqn5cer	M1J1	SCS4	SCS2	SCS9	SCS9	26CGM	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otIDTnDas	wIP8IN
LIpa7IrtNa&aa	3-7 BS0:	5PTDer 5lTabIrIas	um
-N5TA7IrtNa&aa	3-7 BS0:	&dNTn5aIqTnDas	1
&ITaiaAcrIaqdedDOas	2S29JS0J12a19s29s19	&IT.dNabIrIas	S1m3-7BCC

ulDrITD	gIPP	-n5UIt1	-n5UIt2	-n5UIt9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M644M90	M10mCS0	M4120C4M	M2:1C6:	1C22	ttp
5Tcn5y	121J1	2SC9:	1M96	2SC24	1MCMm	2C01	ttp
DPI5cq	0:J2	21CS0	2SCCM	2SCCM	2SC0m	SC00	ttp
BIDcer	19:J1	1MCM	1MCC6	2SC1:	1MCM	SCMm	ttp
BIDcer	190J1	21CS9	2SC1M	1MC09	2SC9:	9CS9	ttp
BIDyNer	MJ1	1MC6	1MC12	1MCCM	1MC9	2CS1	ttp
BcPreTn	2SMJ1				M4		%
BcPreTn	2SMJ2				M6		%
BDnr 5I	m1J1						qtP
-IOrcer	1SmJ1	9SC6m	2MC69	9SC91	9SC21	1C06	ttp
-IOrcer	1S6J1	12C12	1SC04	12CS1	11C66	6CSm	ttp
-IOrcer	111J1	2SC1S	1mCM4	1MCM	1MC4	2CM0	ttp
-INqcer	49J1	M0024C0S	M9S42C49	M9S2SC09	M4:M6CS2	2C06	ttp
-INqcer	44J1	M40:4C6m	M6mMCC10	M99:0C9m	M9SS9CSm	2C1S	ttp
-IDpn5	12J1						qtP
-IDpn5	12J2						qtP
-hNDc5I	9:J1						qtP
-hNDc5I	9:J2						qtP
-hDnrcer	:2J2	9mC1m	90C04	90CC0	90CM9	SC0	ttp
-npINT	:M2	2SC24	2SC9:	1MC6m	2SCSM	1CCM	ttp
-nttID	69J2	26C1S	2:C0S	2:C9m	2:CC6	1C4S	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GIOnNscer	16SJ1						qtP
GIOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				1SS		%
5Ocer	11:J1				M2		%
5Ocer	11:J2				M		%
3Dn5	:4J2	1SS261C06	MM69SC91	1SS41MCC2	1SS1S9CM6	SC42	ttp
3Dn5	:6J2	1SS2m2C46	1SS40MC19	1SS62:CC:	1SS462C44	SC10	ttp
3Dn5	:0J2	1SS4m6C29	1SS261CC0	MM MC9M	1SS11:C19	SC46	ttp
KDytTn5	m9J1						qtP
LIIO	2S6J1	26CCM	24CCM	2:C26	2:C6:	9C0M	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aa	3-7 BS0:	35PTDer 5lTabrlas	um
-Nt5Ta7lrtNla&aa	3-7 BS0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s29s19	&lT.dNablrlas	S1m3-7BCC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LlIO	2S0J1	2:0Mm	24G46	24Gm1	2:GSm	9Clm	ttp
LlIO	2SmJ1	2:0M4	24G46	2:GSM	2:C16	20M	ttp
LdTher	6J1				m0		%
glv5lPer	24J2	M4049G91	M966C6	M4m6Gm4	M4MmmGMS	SG9:	ttp
gl5vl5lPl	::J2	26C1	26C19	2:G20	2:0M0	2G4:	ttp
gnNypCl5er	M4J1	14M0G9	1:1MG24	1:S1G92	1:S6C16	SG06	ttp
gnNypCl5er	MJ1	10m6G24	1000Clm	1062G2M	100:G24	SG6m	ttp
gnNypCl5er	M6J1	100SG66	1096Gm0	10mmGM9	106:G4M	1CS	ttp
gnNypCl5er	M0J1	10m4G6S	1001GMm	1mS0C1:	10m0GM1	1GSS	ttp
gnNypCl5er	MmJ1	1m11GS6	1040G69	1m12Gm4	10MSC1	2GS0	ttp
blnOyrer	1:SJ1						qtP
blnOyrer	1:SJ2						qtP
bqkIN	6SJ2	240GMM	2:G2m	2:GS:	2:C1	SG6S	ttp
uhnPthnDeP	91J2	Mm24GmS	M0020G12	M14mG49	M0199G4:	1Gm2	ttp
unTPPer	9MJ2	Mm0M4Gm9	M9SSSGm1	M6S:1G0:	MM4MG19	9GS2	ttp
UhnOer	1S9J1				MS		%
UhnOer	1S9J2				M9		%
7ql5Oer	4:J1				M4		%
7ql5Oer	4:J2				M9		%
7lN5er	m2J1	1MG96	10G62	10G0:	1mG24	:G9S	ttp
7lN5er	00J2	16G2M	21G9M	2SC1	1MG4S	14GS6	ttp
7lN5er	0mJ2	21G4M	1MGS:	2SGS6	2SG2S	6GS0	ttp
7dqn5	2mJ1	2CS	2GSm	2G29	2G20	MG9m	ttp
7dRD	1S0J1	1MGS1	10G66	10Gmm	1mGlm	90Mm	ttp
7dRD	1SMJ1	1mGm4	10G09	1mG99	1mG9S	9GS4	ttp
7nOer	29J2	1SSmS:Gm9	1SS9SmG09	1SS6:9C16	1SS:mMG24	SG2:	ttp
7TDn5Ter	m6J1	99G22	910MS	99G2S	92G00	2G91	ttp
7TDn5Ter	mmJ1	92G24	91G6M	92G06	92G29	1G60	ttp
7eNeD	94J1	0MS44G2m	029mmGS	02:1SG41	04640GmS	:GlS	ttp
AlDper	1:MJ1				M0		%
AlDper	1:MJ2				Mm		%
AhlNter	2S9J1	21G49	2SG1:	2SGm	2SG02	9G1:	ttp
AhlNter	2S:J1	21G90	1MGM4	2SC4	2SG62	9G4M	ttp
Ac5	11mJ1	SG91	SG99	SG92	SG92	2G2:	ttp
AdT5er	40J1	2S16G2m	1MSG21	2SS9G16	1MmMGm	1G06	ttp
FD5er	29mJ1	SGS9	SGS2	SGS9	SGS9	mGS6	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 BS0:	35PTDer 5lTabl r las	um
-Nl5TA7lrtNla8&aaa	3-7 BS0:	&dNTn5alqTnDas	1
&lTiaAcr la qdedDOas	2S29JS0J12a19s29s19	&lT.dNlabl r las	S1m3-7BCC

ulDr lTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvCa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	1MCS	1MC26	1MCm	1MCm	1C4:	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M4		%
YTDcer	mMJ2				M0		%
Zc5q	66J2	2MC0	2MC24	2mC04	2MC1m	1C49	ttp
ZcDqn5cer	M6J1	SCS2	SCS9	SCS9	SCS9	26Cm9	ttp
ZcDqn5cer	M1J1	SCS9	SCSS	SCSS	SCS1	146Cm	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb cOcmb	20 2	J21J. F46	JSJ11F74	JS612F2S	J1S. 4F77	1FN1	DDe
q CTb 5Ch	121 1	J7NF41	4. 0FJ4	4. 6F. .	J1SF. N	4F6J	DDe
q pwr Ccd	0J 2	J27F0J	J20F0J	J1JF17	J22F21	1F24	DDe
Bspcmb	17J 1	20JSFNJ	2JN0FSJ	2J71F4N	2627F17	4F7J	DDe
Bspcmb	170 1	26. SF10	2J17FJ4	2JSJF41	2J6. F01	4FS6	DDe
Br phPmb	. 1	JSJF4J	4NJF66	4NNF77	4. 7F1J	2F1N	DDe
Bcwb mT%	2S. 1				. S		E
Bcwb mT%	2S. 2				. 1		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	JJ1F1J	J17F. 7	J16FN0	J20F72	7F. 2	DDe
3 sob cmb	1S6 1	JJSF6S	JS6F4J	JS2F77	J1. F0.	JF1J	DDe
3 sob cmb	111 1	JJ7FS2	J1JF1J	J1NFNS	J2NF. .	7F. J	DDe
3 sPdcmb	47 1	26. 4S7F27	2761. 2F41	24466. F67	2JSSNNF42	6F. S	DDe
3 sPdcmb	44 1	2612J0F27	2741. SFNS	27. 0SSF7N	24JS4. F40	JFN4	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %F5pcCr	7J 1						dDw
3 %F5pcCr	7J 2						dDw
3 %p5b cmb	J2 2	4. 0F20	4NNF62	4NJF4S	4. SF47	1F2J	DDe
3 5esFT	J. 2	4NNF44	4. 2F0.	40. F16	4N6FNS	1F47	DDe
3 5DDr p	67 2	J7S4FNJ	J24SF2N	JS6NF77	J2S4F4.	2F7J	DDe
&hwDp5wcmb	1J6 1						dDw
&hwDp5wcmb	1J6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PdCcmb	16S 1						dDw
Hso5PdCcmb	16S 2						dDw
K5Pb cmb	16J 1				. 6		E
K5Pb cmb	16J 2				. N		E
tCocmb	11J 1				. S		E
tCocmb	11J 2				. 1		E
tp5C	J4 2	12667SF7S	120. N4F1S	120S6JFN2	120226F04	SFJ4	DDe
tp5C	J6 2	12N764FNS	120161FJ2	126N16F04	120440F6N	SF64	DDe
tp5C	J0 2	126447F01	12. 1. 1F06	12J0SJF16	120117FJ4	1F4J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	20SNFN7	2JSJF46	2JSSF76	2J01FJJ	4F62	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8spsb r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	20JSF26	2J70F77	24N1F0S	2JN. F06	JF40	DDe
Lr so	2SN 1	2011F44	2J42F66	2J20FN.	2J. 4FSS	7F. 7	DDe
LdP%omb	6 1				N4		E
y sMOr womb	24 2	2J0N14F26	2JS021FN2	2J4267FJ4	2J4266FJ4	1F7.	DDe
y sOMsOr wr	JJ 2	J2S0F1S	JS26F0S	JSNNF. S	J1S0FJ0	1F0.	DDe
y 5Pheor Omb	. 4 1	J47. F06	JS. 6F0N	4. S6FJ6	J140F0S	JF2J	DDe
y 5Pheor Omb	. J 1	J72NF41	J177FS6	4. SNFJ6	J127F74	4F1S	DDe
y 5Pheor Omb	. 6 1	J2N6F64	J111F. 0	4. . 0F7.	J172FSS	2FN4	DDe
y 5Pheor Omb	. 0 1	J4S2F11	JS. . F7J	JSSJFJ7	J16. FSS	4FS1	DDe
y 5Pheor Omb	. N 1	J721FJS	J171F67	4. NNF1.	J140F11	7F2J	DDe
ur 5ohb omb	1JS 1						dDw
ur 5ohb omb	1JS 2						dDw
udfr P	6S 2	JS0FJ2	JSSF6S	4. 7F02	JSSF61	1F7N	DDe
8 %5wD%5pmw	71 2	1SS. 1F2.	1S2. . FSS	1S2N2FS6	1S224F12	1F17	DDe
8 5Tswwomb	7. 2	1261. . FJS	126276F61	126JS1F1.	126712F44	SF17	DDe
v %5oomb	1S7 1				NN		E
v %5oomb	1S7 2				N.		E
I dsOomb	4J 1				. 2		E
I dsOomb	4J 2				. 1		E
I r POomb	N2 1	J24FSS	JS6FS7	4NJF. 0	JSJF77	7F00	DDe
I r POomb	00 2	4JJF74	J2SFJ.	JS1FJ7	4. 2F4N	6FN1	DDe
I r POomb	0N 2	J2JFJ2	J11FN4	J74F0.	J24FSJ	2F2S	DDe
I dd5C	2N 1	J6JFS.	4. 0FN1	J10FSN	J26F66	6FJN	DDe
I dgr p	1S0 1	J72F7.	JS2F77	JS1F6.	J12F14	7F47	DDe
I dgr p	1S. 1	J7NFJJ	4. 1FJ.	JS7FN6	J11F77	4F06	DDe
I 5oomb	27 2	2JN4S6F1.	2J2. 61FJ6	2J262JF6J	2J4664F40	1F20	DDe
I Tp5CTomb	N6 1	17JS. F6J	126S4F40	12147F7S	120J2F40	JF4J	DDe
I Tp5CTomb	NN 1	17217F4N	12404F17	12S7SF26	12J02F62	4F0J	DDe
I mPVmp	74 1	1117SF14	NN44F42	. J44FJS	. N7. F6.	11F. S	DDe
Ar peomb	1J. 1				. 6		E
Ar peomb	1J. 2				. 6		E
A%sPomb	2S7 1	JJSF14	J12F27	JS7F60	J22FS1	4F04	DDe
A%sPomb	2SJ 1	J47F44	J12F2S	J14F1N	J27F20	7F74	DDe
AdC	11N 1	J71FJ0	4. JF07	JS1F10	JS. F4.	7F0.	DDe
AdSOomb	40 1	J4S4FN.	4N42F70	JS01F44	J1S6F24	JFJ4	DDe
RpsOomb	27N 1	J2. F7.	JS6F74	J1SF4.	J1JF41	2F7N	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	J1 2	J20FN7	J16FS.	J2SF41	J21F44	1F14	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N. 1				. 7		E
YTTpomb	N. 2				. 4		E
ZdCd	66 2	JS61F01	4. . JF. 2	4. 40FSJ	JSS1FJ6	1F1J	DDe
Zqpd5Comb	. S 1	J71F4N	JSSF. J	4N7F0S	JSJF7N	4F0.	DDe
Zqpd5Comb	. 1 1	J10F02	4. JF02	4N2F02	4. NF02	7FJJ	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	2072	9.y0	2.y4	1.49	4.y-	96.99	I I b
c 5&mn5h	12171	S.19	S.21	S.22	S.21	y.y1	I I b
c rse5Aq	0y72	S.S8	S.S2	S.S4	S.Sy	y0.y2	I I b
BarAum	1- y71	S.2S	S.18	S.2S	S.2S	y.2y	I I b
BarAum	1- 071	S.1y	S.16	S.21	S.10	18.66	I I b
BerhllAum	971	S.S0	S.S0	S.S6	S.S0	y.- 8	I I b
BAsmu&%	2S971				1S1		E
BAsmu&%	2S972				98		E
BrnmA5e	8171						ql s
3 aOmAum	1S871	S.20	S.S6	S.S8	S.14	81.- 8	I I b
3 aOmAum	1S671	74.00	72.66	72.y1	7- .- 1		I I b
3 aOmAum	11171	S.Sy	S.S2	S.S8	S.Sy	61.69	I I b
3 alqAum	4- 71	22.24	2S.41	19.46	2S.01	6.82	I I b
3 alqAum	4471	86.98	6y.48	y6.6S	69.68	22.41	I I b
3 arbn5	1271						ql s
3 arbn5	1272						ql s
3 %nrA5e	- y71						ql s
3 %nrA5e	- y72						ql s
3 %nmAum	y272	S.S4	S.S-	7S.S-	S.S1	29- .y2	I I b
3 nbal&	y972	S.Sy	S.SS	S.S1	S.S2	142.61	I I b
3 nI I er	6- 72	S.92	S.yS	S.4S	S.6S	4y.60	I I b
t hsI rnsAum	1y671						ql s
t hsI rnsAum	1y672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
GaOnlA5Aum	16S71						ql s
GaOnlA5Aum	16S72						ql s
HnlmAum	16y71				1SS		E
HnlmAum	16y72				1S1		E
D5OAum	11y71				1SS		E
D5OAum	11y72				1SS		E
Dn5	y472	1- .SS	y.20	6.18	8.1y	y1.84	I I b
Dn5	y672	12.88	- .- S	- .SS	6.4S	80.86	I I b
Dn5	y072	11.- -	y.2-	6.- S	0.62	42.09	I I b
Krhl &n5	8- 71						ql s
LeaO	2S671	S.4y	S.- 4	S.26	S.- y	20.9y	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
LeaO	2S071	S.- -	S.- 4	S.29	S.- 2	8.26	I I b
LeaO	2S871	S.- 6	S.- 1	S.28	S.- 2	12.26	I I b
LA%Aum	671				9S		E
Mag5esAum	2472	- 2.06	4.- 9	y.20	14.14	114.S9	I I b
Ma5ga5ese	yy72	S.- y	S.11	S.1y	S.2S	6- .96	I I b
MnlhbOe5um	9471	S.88	S.66	S.y6	S.0S	2- .62	I I b
MnlhbOe5um	9y71	S.86	S.04	S.68	S.06	12.S0	I I b
MnlhbOe5um	9671	S.9-	S.6y	S.60	S.0y	2S.46	I I b
MnlhbOe5um	9071	S.89	S.6-	S.69	S.04	18.01	I I b
MnlhbOe5um	9871	S.8S	S.60	S.82	S.06	1S.92	I I b
NenOhmAum	1yS71						ql s
NenOhmAum	1yS72						ql s
NAqkel	6S72	S.S4	S.S4	S.S4	S.S4	6.S8	I I b
P%nsI %nrus	- 172	7- 8.18	714.68	7- S.y9	720.81		I I b
Pn&assAum	- 972	66.84	yS.42	y1.68	y6.- 2	16.2-	I I b
R%nOAum	1S- 71				99		E
R%nOAum	1S- 72				1S1		E
pqa5OAum	4y71				90		E
pqa5OAum	4y72				94		E
pele5Aum	8271	S.yS	7S.- 9	S.- -	S.1y	- 18.01	I I b
pele5Aum	0072	7S.- 8	7S.- 8	7S.- 8	7S.- 8		I I b
pele5Aum	0872	7S.- 2	7S.yy	S.S9	7S.26		I I b
pAAqn5	2871	S.66	S.10	7S.S2	S.20	1- S.90	I I b
pAver	1S071	S.S2	S.S2	S.S-	S.S2	2S.yS	I I b
pAver	1S971	S.S-	S.S2	S.S2	S.S2	4.26	I I b
pnOAum	2- 72	142.84	1S0.98	1Sy.SS	118.61	10.04	I I b
p&n5&Aum	8671	1.26	S.0-	S.06	S.92	- 2.6y	I I b
p&n5&Aum	8871	S.86	S.02	S.08	S.09	8.0-	I I b
pulfur	- 471	9- y.8-	7- S0.y0	7814.99	762.2y		I I b
i erbAum	1y971				1SS		E
i erbAum	1y972				98		E
i %allAum	2S- 71	S.26	S.21	S.2S	S.22	1- .9-	I I b
i %allAum	2Sy71	S.2-	S.22	S.2S	S.22	0.y1	I I b
i A5	11871	S.S4	S.SS	S.Sy	S.S-	0y.20	I I b
i A&a5Aum	4071	S.4-	S.49	S.- y	S.42	16.94	I I b
Ura5Aum	2- 871	S.S4	S.S-	S.S-	S.S-	9.86	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D) :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D) :	3 3 BS2-	t Au&An5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	y172	S.S-	S.S2	S.SS	S.S2	1S4.20	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				98		E
Y&&Aum	8972				99		E
ZA5q	6672	S.yy	S.19	S.S8	S.20	9S.- 2	l l b
ZAqn5Aum	9S71	S.S4	S.S-	S.Sy	S.S4	- 6.y1	l l b
ZAqn5Aum	9171	S.S-	S.S1	S.Sy	S.S-	0- .y8	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Aluminium	2572	6.48	3.61	9.- 1	3.99	24.4-	ppb
Antimony	12171	P.11	P.12	P.P8	P.11	15.31	ppb
Arsenic	5372	P.P9	P.P6	P.P3	P.P4	99.45	ppb
Barium	19371	P.14	P.13	P.16	P.13	4.2-	ppb
Barium	19571	P.18	P.21	P.14	P.18	21.8-	ppb
Beryllium	- 71	P.P8	P.P6	P.P4	P.P6	9P.24	ppb
Bismuth	2P- 71				- -		%
Bismuth	2P- 72				- 5		%
Bromine	8171						cps
Cadmium	1P871	7P.P1	7P.P1	7P.P3	7P.P9		ppb
Cadmium	1P671	79.81	72.5-	74.13	79.38		ppb
Cadmium	11171	P.P1	P.P5	P.P1	P.P9	11P.29	ppb
Calcium	4971	23.84	24.44	16.1-	22.16	29.34	ppb
Calcium	4471	62.65	63.3-	34.25	6P.84	- .63	ppb
Carbon	1271						cps
Carbon	1272						cps
Chlorine	9371						cps
Chlorine	9372						cps
Chromium	3272	P.P-	P.P4	P.P4	P.P6	44.19	ppb
Cobalt	3- 72	P.P2	P.P2	P.P2	P.P2	- .28	ppb
Copper	6972	P.4-	P.4P	P.49	P.44	1P.24	ppb
Dysprosium	13671						cps
Dysprosium	13672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16P71						cps
Gadolinium	16P72						cps
Holmium	16371				1PP		%
Holmium	16372				- 5		%
Indium	11371				- 8		%
Indium	11372				- 6		%
Iron	3472	- .- 1	1P.- 9	4.86	8.35	95.- 6	ppb
Iron	3672	- .P4	- .3-	8.58	- .14	4.39	ppb
Iron	3572	5.8-	- .P6	3.- 3	5.64	2P.36	ppb
Krypton	8971						cps
Lead	2P671	P.9P	P.26	P.2P	P.23	18.89	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Lead	2P571	P.94	P.28	P.22	P.28	22.6-	ppb
Lead	2P871	P.9P	P.26	P.2P	P.23	1- .26	ppb
Lithium	671				- P		%
Magnesium	2472	19.4P	12.24	5.88	11.15	26.P3	ppb
Manganese	3372	P.21	P.18	P.19	P.15	29.- 6	ppb
Molybdenum	- 471	P.62	P.4-	P.95	P.4-	23.P1	ppb
Molybdenum	- 371	P.69	P.32	P.96	P.3P	26.5P	ppb
Molybdenum	- 671	P.31	P.31	P.94	P.43	21.24	ppb
Molybdenum	- 571	P.61	P.4-	P.45	P.32	14.92	ppb
Molybdenum	- 871	P.4-	P.44	P.42	P.43	8.82	ppb
Neodymium	13P71						cps
Neodymium	13P72						cps
Nickel	6P72	P.P6	P.P9	P.P3	P.P3	28.P5	ppb
0hosphorus	9172	79P.92	24.4-	26.54	6.- 5	469.6P	ppb
0otassium	9- 72	3- .81	44.48	96.48	46.- 2	23.25	ppb
Rhodium	1P971				- 8		%
Rhodium	1P972				- 5		%
Scandium	4371				- 8		%
Scandium	4372				- 4		%
Selenium	8271	P.P9	7P.P8	7P.3P	7P.18		ppb
Selenium	5572	2.P5	7P.98	P.56	P.82	14- .65	ppb
Selenium	5872	P.34	7P.32	P.P-	P.P9	134P.9-	ppb
Silicon	2871	P.12	P.14	P.P1	P.P-	58.- 1	ppb
Silver	1P571	P.P1	P.P2	P.P1	P.P1	48.- 6	ppb
Silver	1P- 71	P.PP	P.P1	P.PP	P.P1	56.56	ppb
Sodium	2972	- 5.25	88.- 3	82.33	8- .3-	8.29	ppb
Strontium	8671	P.83	1.P9	P.32	P.8P	92.81	ppb
Strontium	8871	P.88	P.56	P.62	P.53	15.51	ppb
Sulfur	9471	7255.P8	18.35	79P5.29	7188.38		ppb
Terbium	13- 71				- -		%
Terbium	13- 72				- 8		%
Thallium	2P971	P.15	P.18	P.16	P.15	3.66	ppb
Thallium	2P371	P.1-	P.16	P.19	P.16	16.4P	ppb
Tin	11871	P.P1	P.P1	P.PP	P.P1	115.49	ppb
Titanium	4571	P.63	P.49	P.42	P.3P	23.62	ppb
Uranium	29871	P.P3	P.P9	P.P2	P.P9	42.11	ppb

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Vanadium	3172	P.P9	P.P2	P.P4	P.P9	96.13	ppb
Ytterbium	15271						cps
Ytterbium	15272						cps
Ytterbium	15671						cps
Ytterbium	15672						cps
Yttrium	8- 71				1PP		%
Yttrium	8- 72				- 6		%
Zinc	6672	P.98	P.16	P.15	P.24	32.55	ppb
Zirconium	- P71	P.P4	P.P9	P.P1	P.P9	63.62	ppb
Zirconium	- 171	7P.P1	7P.P2	P.P9	P.PP	2P81.49	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpla	LB1264S0	olrpw8apla	swlPw8
LweJ wbl8JD JaJ	3B1-4S7 B:	D5l8pmb5r&uwbrJa	3N
C8A5&l wbl8JD JaJ	LC: S7	t A8m8A5JJwq8apla	1
tw&JTJ Aorjcqdmpr Qla	2S279S0912J17a7-a46	tw&wJA8JuwbrJa	S22LC: . FO

3wpwbr&p	ywl	Cn5vrl1	Cn5vrl2	Cn5vrl7	cgMFCn5qF	Cn5qv:t	R5A&
c8mb A5Amb	2092	71FN0	74F6	72F2S	77FS1	-F14	Ile
c58Ab n5h	12191	7F7-	7F24	7F71	7F7S	1F02	Ile
cplr5Aq	0-92	1F64	1F7	1F6	1F0-	NF N	Ile
BwpAmb	17-91	10FSN	1-F62	16FS-	16F2-	4F61	Ile
BwpAmb	17091	16F1-	16F70	16FS2	16F1N	1FS0	Ile
Brph8Amb	91	1F07	1F61	1F=6	1F67	-F40	Ile
BAAbm8%	2S 91						E
BAAbm8%	2S 92				1S1		E
Bpmb A5r	N191						qll
CwOb Amb	1SN91	1F67	1F76	1F=6	1F=2	F72	Ile
CwOb Amb	1S691	91F70	SF0-	1F4-	SF2N	-2NF11	Ile
CwOb Amb	11191	1FN2	1F07	1F4	1F6N	1SF1S	Ile
Cw8qAmb	4791	064F6	07SFN0	041F22	04-F6	2F74	Ile
Cw8qAmb	4491	N10FS6	00-F66	060F4N	0N6F07	7F7N	Ile
Cwpen5	1291						qll
Cwpen5	1292						qll
C%8np5r	7-91						qll
C%8np5r	7-92						qll
C%pmb Amb	-292	2F0	7F7N	7F20	7F2S	6F=N	Ile
Cnew8&	- 92	1F=6	1FN1	1F6N	1F6N	0F=	Ile
CnIlrp	6792	7F4	7F0-	7F0-	7F66	4FSN	Ile
thllpnlAmb	1-691						qll
thllpnlAmb	1-692						qll
.peAmb	16491						qll
.peAmb	16492						qll
GwOn85Amb	16S91						qll
GwOn85Amb	16S92						qll
Hn8bAmb	16-91				1SS		E
Hn8bAmb	16-92				1S1		E
D5OAmb	11-91				1SS		E
D5OAmb	11-92				1S1		E
Dpn5	-492	714F7N	761F2N	77NF0S	77NF12	6F4	Ile
Dpn5	-692	71NF=0	74-F24	77 F2	774F70	4F1	Ile
Dpn5	-092	716F=-	7-7F12	740FS	77NF2	-F0N	Ile
Kphl8a5	N791						qll
LrwO	2S691	1F=6	1F64	1F6S	1F6S	2F41	Ile

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J17a7-a46	t w&WJA8 Juwb r Ja	S22LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F62	1F-	1F-0	1F-	1F7	l l e
Lr wO	2SN91	1F67	1F-	1F-0	1F6S	2FS1	l l e
LA&%Amb	691				1		E
y wW5r l Amb	2492	NS1F71	N NF1	N2NF2	N42F6S	-F 7	l l e
y w5Mw5r l r	- - 92	1F6S	1F66	1F6	1F6-	2F60	l l e
y n8neOr 5mb	491	NFN2	NF61	NF	NFNS	2F12	l l e
y n8neOr 5mb	-91	NFS1	0F77	0F00	0F0S	4F-7	l l e
y n8neOr 5mb	691	0F 0	0F- -	0F6N	0F04	2F0-	l l e
y n8neOr 5mb	091	0F4N	0F66	0F-	0F-N	1F22	l l e
y n8neOr 5mb	N91	0F-6	0F4-	0F67	0F- -	1F1	l l e
u r nOnb Amb	1-S91						ql l
u r nOnb Amb	1-S92						ql l
u Aqkr 8	6S92	1F0S	2FS	1FN-	1FNN	1SF-2	l l e
3%nl l %npm	7192	9- - FN7	1-F42	94F0-	91-FS-		l l e
3n&wl l Amb	7 92	0NSFSS	NN6FSS	N-7F06	N7 F2	6F40	l l e
v %nOAmb	1S791						E
v %nOAmb	1S792						E
: qw5OAmb	4-91				0		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F 7	0F47	0F42	0F-	7FNS	l l e
: r 8 5Amb	0092	11FS0	1SF1	6F42	F27	26F00	l l e
: r 8 5Amb	0N92	FN	1SFN2	FN6	1SF1	-F74	l l e
: A8qn5	2N91	1F7-	1FSN	1FS1	1F1-	1-F-4	l l e
: A8gr p	1S091	1F67	1F64	1F62	1F67	SF00	l l e
: A8gr p	1S 91	1F06	1F01	1F67	1F0S	4FS0	l l e
: nOAmb	2792	N-6F42	4-F06	N 7FS0	N NF42	-FSS	l l e
: 8pn5&Amb	N691	1FN7	1F00	1FN7	1FN1	1F 7	l l e
: 8pn5&Amb	NN91	1F04	1F-6	1F66	1F66	-F26	l l e
: m8mp	7491	676F 4	1-SF0S	912SF24	222F40	102F46	l l e
i r peAmb	1- 91				1SS		E
i r peAmb	1- 92						E
i %w8Amb	2S791	1F0S	1F60	1F6S	1F66	7F2S	l l e
i %w8Amb	2S-91	1F00	1F-	1F-4	1F67	0F16	l l e
i A5	11N91	SFS2	SFS1	SFS1	SFS1	41F66	l l e
i A&w5Amb	4091	NF-6	NF-1	NF71	NF46	1F6S	l l e
Rpw5Amb	27N91	1F-1	1F4N	1F4-	1F4N	1F 1	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J17a7-a46	t w&WJA8 Ju wb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	0F 1	NF60	NF40	NF7-	4F06	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				N		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	0F-	NF- -	F1-	NF47	F7-	l l e
ZAqn5Amb	S91	1F-4	1F4	1F-6	1F-7	2F71	l l e
ZAqn5Amb	191	1F6-	1F- -	1F6S	1F6S	2F -	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	- 6U57	- 6U1-	- 7U06	- 7U1J	SU77	DDe
q5Tb n5%	121 1	SU1a	SU16	SU1a	SU1J	0U1S	DDe
qpl r 5cd	07 2	SU17	SU24	SU21	SU2S	2- U4-	DDe
Bwpcmb	1- 7 1	26U50	27U00	27U2S	27U6J	1U0-	DDe
Bwpcmb	1- 0 1	20U4J	27U6S	27U44	26U10	4UJ4	DDe
Br p%8cmb	a 1	SU11	SU1S	SU1S	SU1S	7UJ0	DDe
Bdb mTE	2Sa 1				a4		G
Bdb mTE	2Sa 2				a6		G
Bpmb d5r	J1 1						dDl
v wob cmb	1SJ 1	SU5S	SU16	SU51	SU57	1a1U16	DDe
v wob cmb	1S6 1	- U1-	2U74	4U2-	- UJS		DDe
v wob cmb	111 1	SU5S	SU51	SU52	SU51		DDe
v w8dcmb	4- 1	1- 0J4U2S	1- a- - U47	1- JJ4U61	1- J60U42	SU77	DDe
v w8dcmb	44 1	14177U14	14- 4- U42	14Sa- U00	141a0U44	SUa2	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	4U1S	4U24	4U12	4U17	1UJ0	DDe
v new8T	7a 2	SU26	SU20	SU2-	SU26	0UJ1	DDe
v nDDr p	6- 2	SUJ1	SUaa	SUJ0	SUJa	aUJ1	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				a7		G
h n8b cmb	167 2				a6		G
t5ocmb	117 1				a6		G
t5ocmb	117 2				a7		G
tpm5	74 2	- 2JU0a	- 46U52	- - 7UJ7	- - 6UJa	2U70	DDe
tpm5	76 2	- 26U2-	- 4JUJa	- - 6U76	- - 0U2-	- UJ6	DDe
tpm5	70 2	- 44U70	- 7aU56	- 72U54	- 71UJa	2U56	DDe
Kp%DTh5	J- 1						dDl
Lr wo	2S6 1	SUJJ	SUJ0	SU4S	SUJJ	- U61	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	SUJ J	SU4S	SUJ6	SUJ J	7U40	DDe
Lr wo	2SJ 1	SUJ J	SU4S	SUJ0	SUJ J	- U0J	DDe
LdEomb	6 1				Ja		G
y wW5r l omb	24 2	2J20U46	- S16U2J	2aSaUJa	2a10U01	- U27	DDe
y w5Mw5r l r	77 2	11U66	12U1J	11U0J	11UJ0	2UJ2	DDe
y n8%eor 5mb	a4 1	1UJ1	1U2S	1UJS	1U20	4U0-	DDe
y n8%eor 5mb	a7 1	1U20	1UJ1	1U1a	1U26	7U5a	DDe
y n8%eor 5mb	a6 1	1UJ-	1U2J	1U21	1U20	4U00	DDe
y n8%eor 5mb	a0 1	1U40	1U2a	1UJJ	1UJJ	6U72	DDe
y n8%eor 5mb	aJ 1	1U27	1U21	1U24	1U2-	1U0J	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	1U70	1UJa	1U0-	1U0-	aUJS	DDe
NEnl DEnpm	- 1 2	21U2S	2Ua4	10Ua2	14U52	6aU4-	DDe
NnTwl omb	- a 2	1672U22	1076UJ1	16J2U57	16a0U5-	- U10	DDe
CEnoomb	1S- 1				a4		G
CEnoomb	1S- 2				a6		G
l dw5oomb	47 1				a-		G
l dw5oomb	47 2				a2		G
l r 8 5omb	J2 1	SU1S	SU64	SU12	SU14	- S7U5J	DDe
l r 8 5omb	00 2	SUJ J	2U5a	SUJ J	SU44	- 2SU50	DDe
l r 8 5omb	0J 2	SU74	1U6a	SUJ1	1U51	7aUJ6	DDe
l d8dn5	2J 1	2S2U64	212U22	2S0U1J	2S0UJ7	2UJ1	DDe
l d8gr p	1S0 1	SU51	SU5S	SU51	SU5S	62UJ0	DDe
l d8gr p	1Sa 1	SU51	SU51	SU5S	SU51	4aU2S	DDe
l noomb	2- 2	1S62JUJJ	11107U0-	1S047U26	1SJ4aUa6	2U66	DDe
l Tpm5Tomb	J6 1	66U6S	0SU20	67U60	60U71	- U6S	DDe
l Tpm5Tomb	JJ 1	66U07	60UJ0	66Ua2	60U1J	SUaS	DDe
l m8mp	- 4 1	41J6U2-	- aJ4UaJ	4121U76	4Sa0U7a	2U71	DDe
Ar peomb	17a 1				a7		G
Ar peomb	17a 2				a0		G
AEw8omb	2S- 1	SU12	SU5a	SU11	SU1S	1- Uaa	DDe
AEw8omb	2S7 1	SU5J	SU50	SU56	SU50	1- U7a	DDe
Ad5	11J 1	SUJ1	SU2a	SU1a	SU20	2- UJJ	DDe
AdTw5omb	40 1	SUJ-	1U57	SUJ6	SUa1	1- U21	DDe
Rpw5omb	2- J 1	SUa7	SUaa	SUa-	SUa7	- U27	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5TI wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gM:v n5dU	v n5dCI &	R5dT
Vw5wocmb	71 2	SU-a	SU71	SU44	SU47	1- U1S	DDe
YTTr pecmb	102 1						dDI
YTTr pecmb	102 2						dDI
YTTr pecmb	106 1						dDI
YTTr pecmb	106 2						dDI
YTTpcmb	Ja 1				a4		G
YTTpcmb	Ja 2				a7		G
Zc5d	66 2	16U24	16Ua0	17U-7	16U1a	7US-	DDe
Zqcdn5cmb	aS 1	SUSa	SU11	SU17	SU12	27U17	DDe
Zqcdn5cmb	a1 1	SUS7	SUSa	SU17	SUSa	74US-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	4JFJS	4- F77	44F02	47F6h	6FS4	l l b
cn&mon%	121 1	SF12	SF1-	SF12	SF12	0F1-	l l b
crwenAq	07 2	SF7S	SF- 7	SF4S	SF41	1JFh4	l l b
BsrAum	1- 7 1	4- F- 2	46FS1	47F4h	44Fh4	- F1J	l l b
BsrAum	1- 0 1	4- F2S	47F67	44FJ1	44F77	2F0h	l l b
Ber%BAum	h 1	SF14	SF16	SF17	SF17	4F61	l l b
BAumu&E	2Sh 1				1SS		G
BAumu&E	2Sh 2				1S2		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF02	SF16	SF6-	SF7S	6SF16	l l b
RsOmAum	1S6 1	- F20	- F16	- Fh0	- F40		l l b
RsOmAum	111 1	SFS1	SFSS	SFS2	SFS1		l l b
RsRqAum	4- 1	20207F60	20670F4-	2J6J0F42	20J0- F71	2F62	l l b
RsRqAum	44 1	2JhhSF1-	2J111Fh7	2h7- hF42	2JJJSF7S	2F4h	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	1FhJ	1F02	1F02	1FJ1	JF4-	l l b
RobsR&	7h 2	SF74	SF72	SF70	SF74	4F0J	l l b
Rol l er	6- 2	1FS1	SFJ4	1FS2	SFh6	1SF4h	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				1SS		G
y oFmAum	167 2				1S4		G
DrOAum	117 1				hJ		G
DrOAum	117 2				1S1		G
Don	74 2	JhJF16	0h1F42	J16F0h	J- 7F46	6F60	l l b
Don	76 2	JJSFS1	0h1FSS	J- hFSS	J- 6F60	7F- 2	l l b
Don	70 2	JJJF20	J- 6FS7	JJ6F60	J0SF- -	- F41	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF- -	SF- 6	SF- 4	SF- 4	7F66	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	SF- -	SF- 2	SF2h	SF- 2	6FJJ	l l b
LesO	2SJ 1	SF- -	SF- 4	SF- 1	SF- -	4Fh4	l l b
LAEAum	6 1				JJ		G
MsgnewAum	24 2	0- 4hF- -	602SFSh	0S22F10	0S- SF7-	4F4J	l l b
Msngsnewe	77 2	61FJ1	76F- -	7hF04	7hF2h	4F66	l l b
MoP%bOenum	h4 1	7F- 1	7F7J	7F11	7F- -	4F47	l l b
MoP%bOenum	h7 1	6F2S	6F74	6F1-	6F2h	- F4h	l l b
MoP%bOenum	h6 1	6F14	6F2h	6F14	6F1h	1F- 0	l l b
MoP%bOenum	h0 1	6F1J	6F24	6F47	6F2h	2F20	l l b
MoP%bOenum	hJ 1	6FS0	6F- h	6FSJ	6F1J	2FhJ	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ7	SFJJ	SFJ1	SFJ7	4F47	l l b
8EowI Eoruw	- 1 2	- SF1h	JFJ2	JhFS6	22F76	26hF4J	l l b
8o&swwAum	- h 2	2JJSFJ7	27h7F00	206SFJ1	2047FJ1	7F21	l l b
5EoOAum	1S- 1				h6		G
5EoOAum	1S- 2				1S1		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				hh		G
pe?enAum	J2 1	SF27	SF42	SF76	SF41	- 0F16	l l b
pe?enAum	00 2	SF0h	SF- J	1F0J	SF0-	140F01	l l b
pe?enAum	0J 2	SFhh	SFSh	1F1h	SF0S	hJF4h	l l b
pAAqon	2J 1	- 22Fh-	- - SFSJ	- 24F26	- 27F06	1F10	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	21JF4h	l l b
pA?er	1Sh 1	SFS1	SFSS	SFS1	SFS1	1SSFJ0	l l b
poOAum	2- 2	2174- FJS	1h- 17Fh7	1h4J6F04	2S117F7S	6F16	l l b
p&on&Aum	J6 1	167F76	107F- 0	166F00	16hF2-	- F16	l l b
p&on&Aum	JJ 1	10SF67	1J1F1S	104F47	107F4S	- FS2	l l b
pulPur	- 4 1	1- S1JF4-	12h41F02	1- 106F21	1- S47F46	SFh2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				1S2		G
i EsPAum	2S- 1	SFSJ	SFS0	SFSJ	SFSJ	hF7h	l l b
i EsPAum	2S7 1	SFSh	SFS0	SFSJ	SFSJ	JFJ0	l l b
i An	11J 1	SF27	SF- 1	SF- S	SF2J	11F7J	l l b
i A&snAum	40 1	1F21	SFJJ	SFhS	1FSS	1JF07	l l b
UrsnAum	2- J 1	1Fh1	1FhJ	1Fh-	1Fh4	1F0h	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Re:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	SF4S	SF- 7	SF4S	SF- J	6Fh7	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				1S4		G
ZAnq	66 2	4- Fh6	- hF6J	4- F0-	42F47	7F60	l l b
ZAqonAum	hS 1	SF12	SF12	SF1S	SF11	12F62	l l b
ZAqonAum	h1 1	SF1S	SF57	SF50	SF50	- 6F- J	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	44F7J	44F21	44FS0	44F2h	SF6S	l l b
cn&mon%	121 1	SF14	SF10	SF1S	SF14	24Fh7	l l b
crwenAq	07 2	SF72	SF41	SF47	SF46	11F74	l l b
BsrAum	1- 7 1	40F26	7SF41	44F0h	40F4h	7Fh-	l l b
BsrAum	1- 0 1	46FSS	7SF2J	47Fh6	40F41	7F27	l l b
Ber%RAum	h 1	SF12	SF14	SF11	SF1-	hFh1	l l b
BAumu&E	2Sh 1				h6		G
BAumu&E	2Sh 2				h0		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF7J	SF- 7	SF40	SF40	24F14	l l b
RsOmAum	1S6 1	2Fh6	- F42	- F2h	- F22		l l b
RsOmAum	111 1	SFS2	SFS2	SFS1	SFSS		l l b
RsRqAum	4- 1	2JS14F44	- S1- SF4J	2J11JF11	2J074F- 4	4F17	l l b
RsRqAum	44 1	2J7S6FJ1	- 1- hJF21	2Jh26Fhh	2h61SF60	7F2J	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- 7 1						ql w
REPrAne	- 7 2						ql w
REromAum	72 2	1FJ6	1FhJ	1FJ0	1FhS	- F- J	l l b
RobsR&	7h 2	SF7h	SF62	SF72	SF7J	JF61	l l b
Rol l er	6- 2	SFJJ	SFJJ	SFh2	SFJh	2F7S	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoRhAum	16S 1						ql w
HsOoRhAum	16S 2						ql w
y oRmAum	167 1				h0		G
y oRmAum	167 2				1SS		G
DnOAum	117 1				h6		G
DnOAum	117 2				h0		G
Don	74 2	0h7F70	J2SF00	J1hF4-	J11Fh2	1F07	l l b
Don	76 2	J24F- 6	J27FJ1	J1JF2h	J22FJ2	SF4J	l l b
Don	70 2	J46F77	J- 6F- 1	J47F21	J42F6h	SF66	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF2h	SF- 4	SF2J	SF- S	1SF6-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	SF2J	SF2J	SF26	SF20	- F6-	l l b
LesO	2SJ 1	SF20	SF- 1	SF26	SF2J	hF1J	l l b
LA&EAum	6 1				JJ		G
MsgnewAum	24 2	044hF72	0- 01F0S	07S1F1-	044SF0J	SFJJ	l l b
Msngsnewe	77 2	61FJ2	62FJ4	61F0h	62F17	SFh6	l l b
MoP%bOenum	h4 1	7F17	7F- 6	7F- 1	7F20	2FSh	l l b
MoP%bOenum	h7 1	6FSJ	6F- h	6F- S	6F27	2F70	l l b
MoP%bOenum	h6 1	6FS4	6F76	7Fh4	6F1J	7F- 6	l l b
MoP%bOenum	h0 1	6F1S	6F7h	7FJS	6F16	6F46	l l b
MoP%bOenum	hJ 1	6F2J	6F0S	7Fh1	6F- S	6F- -	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ6	SFh0	SF00	SFJ0	11F- 7	l l b
8 EowI Eoruw	- 1 2	hF42	1JF04	14F77	4F74		l l b
8 o&swwAum	- h 2	2J02F47	2J77Fh-	2J44F66	2J70F6J	SF4h	l l b
5 EoOAum	1S- 1				h4		G
5 EoOAum	1S- 2				h0		G
pqsnOAum	47 1				h4		G
pqsnOAum	47 2				h4		G
pe?enAum	J2 1	SF42	SFJS	1FS2	SF07	4SF67	l l b
pe?enAum	00 2	SF- J	- F1S	- F1-	1Fh7	1S- F- 2	l l b
pe?enAum	0J 2	SF- S	SF44	1F- 1	SF6J	JSF14	l l b
pAAqon	2J 1	- 22FJS	- 47F- S	- 14FJ6	- 20F67	4FJ2	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	217F11	l l b
pA?er	1Sh 1	SFSS	SFS1	SFSS	SFSS	h4F64	l l b
poOAum	2- 2	211h1F06	2Sh60Fh4	21442F41	212SSF0S	1F12	l l b
p&on&Aum	J6 1	166F7-	1JSF4J	160F11	101F- 0	4F61	l l b
p&on&Aum	JJ 1	101F66	1J0FJJ	100F1h	10JFh1	4F61	l l b
pu?ur	- 4 1	12h60FJS	147- 4F0-	124h0F40	1- - - - F- -	JFSS	l l b
i erbAum	17h 1				h6		G
i erbAum	17h 2				hh		G
i EsPAum	2S- 1	SFS0	SFS7	SFSJ	SFS6	27FS4	l l b
i EsPAum	2S7 1	SFS7	SFS6	SFS7	SFS7	1- F2J	l l b
i An	11J 1	SF2-	SF21	SF1h	SF21	JF66	l l b
i A&snAum	40 1	SFJ0	SFhS	SF0J	SFJ7	6FhS	l l b
UrsnAum	2- J 1	1Fh2	2FS0	1Fh4	1FhJ	4F12	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Re:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	71 2	SF71	SF- -	SF- 7	SF- h	24Fh6	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h7		G
Y&&Aum	Jh 2				h0		G
ZAnq	66 2	42F0J	4- F- 1	4- F61	4- F2-	SFh0	l l b
ZAqonAum	hS 1	SF50	SF50	SF50	SF50	7F71	l l b
ZAqonAum	h1 1	SF50	SF50	SF50	SF50	7F40	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Aluminium	23X2	8.81	9.8O	9.66	9.4-	0.66	ppb
Antimony	121X1	O.O-	O.O-	O.O4	O.O-	23.O2	ppb
Arsenic	30X2	O.1O	O.O3	O.O3	O.O3	2O.3O	ppb
Barium	1- 0X1	9.1O	9.O9	9.36	9.- 2	4.11	ppb
Barium	1- 3X1	8.99	9.11	9.62	9.24	- .6O	ppb
Beryllium	9X1	O.O4	O.O4	O.O0	O.O4	- .92	ppb
Bismuth	2O9X1				1O2		%
Bismuth	2O9X2				1O2		%
Bromine	81X1						cps
Cadmium	1O8X1	O.- 4	O.10	O.01	O.- -	04.81	ppb
Cadmium	1O6X1	X2.0-	X1.48	X1.03	X1.86		ppb
Cadmium	111X1	XO.O4	XO.O1	XO.O-	XO.O-		ppb
Calcium	4- X1	0489.16	0323.03	08O- .21	063- .- 1	2.89	ppb
Calcium	44X1	0398.18	6O44.4O	6180.30	6OO9.44	- .26	ppb
Carbon	12X1						cps
Carbon	12X2						cps
Chlorine	- 0X1						cps
Chlorine	- 0X2						cps
Chromium	02X2	O.- 0	O.4-	O.- 9	O.- 9	1O.66	ppb
Cobalt	09X2	O.12	O.O9	O.12	O.11	16.99	ppb
Copper	6- X2	O.28	O.- -	O.- 4	O.- 2	11.41	ppb
Dysprosium	106X1						cps
Dysprosium	106X2						cps
Erbium	164X1						cps
Erbium	164X2						cps
Gadolinium	16OX1						cps
Gadolinium	16OX2						cps
Holmium	160X1				1O2		%
Holmium	160X2				1O4		%
Indium	110X1				1O2		%
Indium	110X2				1O2		%
Iron	04X2	166.01	166.03	163.28	166.39	O.26	ppb
Iron	06X2	166.- 4	169.40	16- .48	166.42	1.39	ppb
Iron	03X2	136.32	191.- 4	132.- 6	18O.14	0.02	ppb
Krypton	8- X1						cps
Lead	2O6X1	O.O8	O.O9	O.O9	O.O8	0.- -	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Lead	2O3X1	O.O0	O.O3	O.O0	O.O6	2O.82	ppb
Lead	2O8X1	O.O3	O.O6	O.O3	O.O3	0.90	ppb
Lithium	6X1				92		%
Magnesium	24X2	1438.11	1484.20	141- .8-	1408.3-	2.63	ppb
Manganese	00X2	12.41	12.1-	11.34	12.O9	2.38	ppb
Molybdenum	94X1	1.19	1.19	1.O4	1.14	3.01	ppb
Molybdenum	90X1	1.O8	1.14	1.2-	1.10	6.- 0	ppb
Molybdenum	96X1	1.14	1.22	1.- 2	1.2-	3.- 6	ppb
Molybdenum	93X1	1.13	1.20	1.4O	1.23	9.- -	ppb
Molybdenum	98X1	1.13	1.22	1.- O	1.2-	0.4O	ppb
Neodymium	10OX1						cps
Neodymium	10OX2						cps
Nickel	6OX2	O.21	O.10	O.21	O.19	13.98	ppb
Phosphorus	- 1X2	X13.8O	X- 4.O1	X26.98	X26.23		ppb
Potassium	- 9X2	084.- 4	084.16	003.- 8	030.29	2.3O	ppb
Rhodium	1O- X1				1OO		%
Rhodium	1O- X2				1O-		%
Scandium	40X1				98		%
Scandium	40X2				98		%
Selenium	82X1	O.2-	XO.- 0	XO.22	XO.11		ppb
Selenium	33X2	XO.- 8	XO.- 8	XO.- 8	XO.- 8		ppb
Selenium	38X2	O.44	O.O0	O.O3	O.19	118.0-	ppb
Silicon	28X1	62.18	60.6O	63.08	60.12	4.2O	ppb
Silver	1O3X1	O.OO	O.OO	O.O1	O.OO	18- .6-	ppb
Silver	1O9X1	O.OO	O.OO	O.OO	O.OO		ppb
Sodium	2- X2	4210.O4	4140.10	41O2.OO	4104.O6	1.- 3	ppb
Strontium	86X1	- - .82	- 4.18	- 4.18	- 4.O6	O.62	ppb
Strontium	88X1	- 2.64	- 4.O2	- - .21	- - .29	2.O9	ppb
Sulfur	- 4X1	1630.83	2O98.11	2216.04	1996.84	14.2-	ppb
Terbium	109X1				1O1		%
Terbium	109X2				1O-		%
Thallium	2O- X1	O.O4	O.O4	O.O0	O.OO	16.14	ppb
Thallium	2OOX1	O.O4	O.O4	O.O4	O.O4	11.22	ppb
Tin	118X1	O.12	O.O6	O.O6	O.O8	41.03	ppb
Titanium	43X1	O.14	O.14	O.13	O.10	12.29	ppb
Uranium	2- 8X1	O.- 8	O.- 8	O.- 9	O.- 8	1.4O	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Vanadium	01X2	O.O8	O.O8	O.O0	O.O3	19.86	ppb
Ytterbium	132X1						cps
Ytterbium	132X2						cps
Ytterbium	136X1						cps
Ytterbium	136X2						cps
Yttrium	89X1				1OO		%
Yttrium	89X2				1O1		%
Zinc	66X2	9.28	9.46	8.94	9.2-	2.84	ppb
Zirconium	9OX1	O.OO	O.O2	O.O1	O.O1	1O1.91	ppb
Zirconium	91X1	O.OO	O.O1	O.OO	O.OO	2693.40	ppb

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	210hFh1	220SFS4	224- F- 1	22- 1FSh	2FS0	l l b
cn&mon%	121 1	hhF0S	hhF1S	1SSF6h	hhFJ-	SFJ1	l l b
crwenAq	07 2	41F- -	42F07	41F67	41Fh1	1F0h	l l b
BsrAum	1- 7 1	2- 2JF4J	2- - 6FJJ	2242FJ7	2- S2F0-	2F26	l l b
BsrAum	1- 0 1	226SF26	22- 4FJh	22S0F- 4	22- 4F16	1F1J	l l b
Ber%BAum	h 1	7- FS4	77FSS	77F11	74F- J	2F14	l l b
BAumu&E	2Sh 1				hJ		G
BAumu&E	2Sh 2				hJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	41F44	47F10	47F- 0	4- Fhh	7FS4	l l b
RsOmAum	1S6 1	- hFS7	- JF21	- hF- h	- JFJJ	1F70	l l b
RsOmAum	111 1	7- F- 4	72F1J	7SFhJ	72F10	2F26	l l b
RsRqAum	4- 1	2061SF6S	20h17F0h	2J- 0SF72	20h67F64	1F- 0	l l b
RsRqAum	44 1	2J40- F46	2J6- hFJh	2Jh40FS1	2J6J6F0h	SFJ4	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	216F64	227F04	221F6-	221F- -	2FS6	l l b
RobsR&	7h 2	700FS1	611F4S	611F6S	6SSFSS	- F- 2	l l b
Rol l er	6- 2	20SFS4	2JSF64	206F21	207F6-	1Fh-	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				hh		G
y oFmAum	167 2				hh		G
DnOAum	117 1				hJ		G
DnOAum	117 2				h0		G
Don	74 2	16- 7Fh1	16hJFJ7	167SF46	1661F04	1FhJ	l l b
Don	76 2	176- FJ2	1642FS6	1614F1S	16S6F66	2F40	l l b
Don	70 2	1407F21	17JSF44	17- 4F0J	17- SF14	- F47	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	1JFS6	1JF64	1JF2-	1JF- 1	1F62	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	1JF41	1JF74	1JF46	1JF40	SF-0	l l b
LesO	2SJ 1	1JF1h	1JF77	1JF76	1JF4-	1F14	l l b
LAEAum	6 1				hS		G
MsgnewAum	24 2	0140F26	046SF0J	04S1F64	0- - 6F76	2F20	l l b
Msngsnewe	77 2	70JFS1	612F0J	7h2F2-	7h4F-4	2Fh4	l l b
MoP%bOenum	h4 1	7F2J	7F7S	7F22	7F-4	2F0-	l l b
MoP%bOenum	h7 1	6F16	6FS0	6FS4	6FSh	1FS-	l l b
MoP%bOenum	h6 1	6F14	6F2-	7Fh0	6F11	2F22	l l b
MoP%bOenum	h0 1	6FS-	6F41	6FS-	6F17	- F77	l l b
MoP%bOenum	hJ 1	6FS2	6F-0	7FhJ	6F12	- F77	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	700F4J	7h6F12	7h7F-0	7JhF67	1F0h	l l b
8EowI Eoruw	- 1 2	2JF0-	hFS1	7F-6	1SF0h		l l b
8o&swwAum	- h 2	200SF2-	2J42F4h	2J40FSh	2J1hFh4	1F7-	l l b
5EoOAum	1S- 1				h7		G
5EoOAum	1S- 2				hJ		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				h7		G
peRenAum	J2 1	h7F7h	1SSF12	h6F47	h0F-h	2F40	l l b
peRenAum	00 2	114F4J	1S0FS2	J4F77	1S2FS2	17F20	l l b
peRenAum	0J 2	1S6F0S	1S7F71	1S6F22	1S6F14	SF76	l l b
pARqon	2J 1	- 21F0S	- 2JF40	- - 4F27	- 2JF14	1Fh1	l l b
pARer	1S0 1	4- FJ7	4- Fh6	42Fh-	4- F7J	1F2h	l l b
pARer	1Sh 1	4- F42	42FhJ	4- FJS	4- F4S	SFh7	l l b
poOAum	2- 2	2S0- 6FS2	217S0F6S	21116F2h	2111hFh0	1FJ-	l l b
p&ona&Aum	J6 1	167FS6	10- FS-	167F4h	160FJ6	2F60	l l b
p&ona&Aum	JJ 1	102F44	104F1S	104F42	10- F66	SF61	l l b
pufFur	- 4 1	12010F64	12J- JF07	1- S72FJ4	12J6hF04	1F-2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				hh		G
i EsRAum	2S- 1	44FhJ	46F21	46F21	47FJS	1F77	l l b
i EsRAum	2S7 1	46F27	46FJ7	40F17	46F07	SFhJ	l l b
i An	11J 1	SF21	SF2J	SF-4	SF2J	2- F2h	l l b
i A&snAum	40 1	1FS1	1F17	1F1-	1F1S	6Fh4	l l b
UrsnAum	2- J 1	1FJJ	1FhS	1Fh0	1Fh2	2F4-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&w
VsnsOAum	71 2	76JF4h	7JJF20	7JSF40	70hFSJ	1F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				hJ		G
ZAnq	66 2	7JSF10	6SJF76	7h4F20	7h4F- -	2F- h	l l b
ZAqonAum	hS 1	SF5J	SF5J	SF5J	SF5J	- Fh2	l l b
ZAqonAum	h1 1	SF1-	SF12	SF5J	SF11	2- F- 0	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	44F61	46F1-	48F86	46F7-	4F6-	I I b
c n&Amon%	121 1	SF2S	SF21	SF18	SF2S	hFS1	I I b
c rsenAq	07 2	SF- 8	SF46	SF48	SF44	1SF8-	I I b
BarAum	1- 7 1	47F17	47F14	4SF60	4- F67	7Fh2	I I b
BarAum	1- 0 1	47F41	46FS7	4SF44	4- Fh0	6Fh8	I I b
Ber%lAum	h 1	SF14	SF14	SF17	SF17	- F8S	I I b
BAsmu&E	2Sh 1				1S2		G
BAsmu&E	2Sh 2				1SS		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SF24	SF4-	SFSS	SF22	h7F80	I I b
RaOmAum	1S6 1	4F4S	4F1h	- F10	- Fh2		I I b
RaOmAum	111 1	SFS1	SFS2	SFS-	SFS1	- 4hF8S	I I b
RalqAum	4- 1	20718F0-	20- 12F1h	242- SF64	26- 7- F87	6Fhh	I I b
RalqAum	44 1	28S87FS2	20hS1F1h	246h0Fh6	268h4F02	0FS8	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- 7 1						ql s
REIorAne	- 7 2						ql s
REromAum	72 2	2F48	2F78	2F7-	2F7-	2FS0	I I b
Robal&	7h 2	SF00	SF0-	SF06	SF07	2F4h	I I b
RoI I er	6- 2	SFh6	SFh7	SFh8	SFh6	1F7-	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				1S4		G
y olmAum	167 2				1S1		G
DnOAum	117 1				1S4		G
DnOAum	117 2				hh		G
Don	74 2	146F7-	14- F20	176F2S	148F60	4F7-	I I b
Don	76 2	146FS-	140F2S	146F4h	146F70	SF4S	I I b
Don	70 2	180F8S	187FS-	1h4F11	188Fh8	2F46	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	SF4-	SF48	SF41	SF44	8F87	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	SF- h	SF42	SF- 6	SF- h	8F14	I I b
LeaO	2S8 1	SF42	SF46	SF- 8	SF42	hF- 8	I I b
LA&EAum	6 1				h2		G
MagnesAum	24 2	0120F61	02S4FS7	0282F01	02S4F0h	1FS8	I I b
Manganese	77 2	6SFS-	78F62	6SF6-	7hF06	1F0-	I I b
Mol%bOenum	h4 1	7F- 2	7F- S	4F6S	7FS8	8F1S	I I b
Mol%bOenum	h7 1	6FSS	6FSh	7F48	7F36	7F61	I I b
Mol%bOenum	h6 1	7FhS	7Fh1	7F21	7F60	0FSh	I I b
Mol%bOenum	h0 1	6F16	6FS4	7F4S	7F30	0FS2	I I b
Mol%bOenum	h8 1	6F2-	7Fh8	7F- h	7F30	0F- 8	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	1F44	1F71	1F7h	1F71	7FS1	I I b
PEosI Eorus	- 1 2	7F4S	2F2h	18Fh0	0F- 6		I I b
Po&assAum	- h 2	20h- Fh7	2087F- 6	2828F7S	28S2F6S	SF31	I I b
5 EoOAum	1S- 1				1S1		G
5 EoOAum	1S- 2				hh		G
pqanOAum	47 1				1S2		G
pqanOAum	47 2				h6		G
pelenAum	82 1	SF0S	SF7h	SF36	SF02	1hF18	I I b
pelenAum	00 2	SF- 8	SF06	SF- 8	SFSS	h4208F31	I I b
pelenAum	08 2	SF10	SF01	SF- 4	SF4S	68FS7	I I b
pAAqon	28 1	- 21F0h	- 18F38	281FSh	- S0F27	0F- h	I I b
pAver	1S0 1	SFSS	SFSS	SFS1	SFSS	h- F- -	I I b
pAver	1Sh 1	SFS1	SFS1	SFSS	SFS1	- 2F31	I I b
poOAum	2- 2	2S77- F31	21S72F2S	2S884F06	2S8- SF26	1F22	I I b
p&ona&um	86 1	162F2-	167F12	146Fh2	178FSh	6F1h	I I b
p&ona&um	88 1	16hF- -	102FSh	148F77	16- F- 2	0F38	I I b
pulfur	- 4 1	12- 80F20	11h01F70	h217F7S	111h1F47	17F4S	I I b
i erbAum	17h 1				1S4		G
i erbAum	17h 2				1SS		G
i EallAum	2S- 1	SFS8	SFS0	SFS6	SFS0	1SF46	I I b
i EallAum	2S7 1	SFS0	SFS6	SFS0	SFS0	6F74	I I b
i An	118 1	2Fhh	- FS8	2F6S	2F3h	8F0S	I I b
i A&anAum	40 1	SF08	SFh0	SF60	SF31	1hF27	I I b
UranAum	2- 8 1	1Fh1	1F37	1F0-	1F3-	4Fh6	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	71 2	SF76	SF4h	SF60	SF70	17F2-	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8h 1				1S2		G
Y&&Aum	8h 2				hh		G
ZAnq	66 2	40F71	47Fh6	46F02	46F0-	1F66	I I b
ZAqonAum	hS 1	SF58	SF56	SF58	SF50	16F76	I I b
ZAqonAum	h1 1	SF58	SF50	SF56	SF50	1- F16	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:1- 976974	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	46U2	40U45	44U42	46U58	-U6	I I b
c n&Amon%	121 1	SU15	SU10	SU17	SU10	12U08	I I b
c rsenAq	07 2	SU47	SU47	SU71	SU40	0U18	I I b
BarAum	1- 7 1	7SU17	47U71	42U55	46U22	0U36	I I b
BarAum	1- 0 1	45U62	42U62	4- U37	47U6	8U27	I I b
Ber%IAum	5 1	SU17	SU1-	SU12	SU1-	5U67	I I b
BAsmu&E	2S5 1				57		G
BAsmu&E	2S5 2				1SS		G
BromAne	81 1						ql s
v aOmAum	1S8 1	SU45	SU5	SU77	SU48	16U7S	I I b
v aOmAum	1S6 1	7US	2U25	SU46	2U68		I I b
v aOmAum	111 1	SUS-	SUS4	SUS2	SUS1	474US5	I I b
v alqAum	4- 1	- - 571U0-	28- 48U50	25200US	- S726USS	5U34	I I b
v alqAum	44 1	- 4024U10	258SSU0-	- SS75U42	- 1728U11	8U05	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	- 7 1						ql s
v ElorAne	- 7 2						ql s
v EromAum	72 2	SU74	SU71	SU72	SU72	-U8	I I b
v obal&	75 2	SU64	SU6-	SU6S	SU62	-U7S	I I b
v ol I er	6- 2	SU52	SU3S	SU34	SU37	0U14	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	167 1				54		G
h olmAum	167 2				1S1		G
DnOAum	117 1				5-		G
DnOAum	117 2				1SS		G
Don	74 2	04U10	02U37	0SU05	02U61	2U7	I I b
Don	76 2	00U0	02U48	65U3-	0- U2-	7U22	I I b
Don	70 2	1S0U70	1S5U51	110US2	111U7S	4U42	I I b
Kr%I &on	8- 1						ql s
LeaO	2S6 1	SUS	SU15	SU21	SU2-	2- U34	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	SU1	SU15	SU15	SU2-	28U52	I I b
LeaO	2S8 1	SU28	SU22	SU22	SU24	14U71	I I b
LA&EAum	6 1				80		G
y aMhesAum	24 2	8287U S	81S6US6	0574U14	8117U16	2US4	I I b
y anManese	77 2	70U66	77U08	74U1	77U52	- USS	I I b
y ol%bOenum	54 1	8U2	0U77	0U5	0U06	6U41	I I b
y ol%bOenum	57 1	6U84	6U17	6U18	6U5	6U17	I I b
y ol%bOenum	56 1	0U18	6U2	6U44	6U64	6U50	I I b
y ol%bOenum	50 1	0US1	6U48	6US4	6U71	0U40	I I b
y ol%bOenum	58 1	0US4	6U12	6U24	6U40	0U01	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	SU68	SU05	SU60	SU01	5U48	I I b
PEosI Eorus	- 1 2	- SU1-	- - U56	26U45	0U77		I I b
Po&assAum	- 5 2	286- US7	2002U4-	2686U66	2004US7	- U18	I I b
CEoOAum	1S- 1				5-		G
CEoOAum	1S- 2				1SS		G
pqanOAum	47 1				52		G
pqanOAum	47 2				56		G
pelenAum	82 1	1U10	1US0	SU81	1US2	10U55	I I b
pelenAum	00 2	1U51	SU00	2U52	1U80	70U06	I I b
pelenAum	08 2	SU02	SU72	SU84	SU65	2- U46	I I b
pAAqon	28 1	- 65U8-	- 17U10	- 2- U77	- - 6U18	8U06	I I b
pAger	1S0 1	SUS1	SUS1	SUSS	SUS1	6- US8	I I b
pAger	1S5 1	SUS1	SUSS	SUSS	SUSS	180U10	I I b
poOAum	2- 2	22825U76	22228U4-	22- 51U85	2248- U S	1U8	I I b
p&ona&Aum	86 1	211U7-	108U50	105U74	15SUS1	5U81	I I b
p&ona&Aum	88 1	210U51	181U0	18- U22	154U10	1SU6S	I I b
pulfur	- 4 1	1584- U46	17160U86	17855U14	1650SU17	14U82	I I b
i erbAum	175 1				57		G
i erbAum	175 2				1S1		G
i EallAum	2S- 1	SUS0	SUS4	SUS7	SUS7	26U4	I I b
i EallAum	2S7 1	SUS6	SUS4	SUS4	SUS4	22U65	I I b
i An	118 1	SU42	2U42	SU7	1US6	11SU-	I I b
i A&anAum	40 1	1U25	1U2	SU81	1U14	24U06	I I b
RranAum	2- 8 1	2U7	1U55	2US-	2U12	5U24	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	71 2	SU7	SU8	SU7	SU6	4U06	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	85 1				52		G
Y&&Aum	85 2				1SS		G
ZAnq	66 2	- 6U47	- 7U87	- 4U61	- 7U64	2U64	I I b
ZAqonAum	5S 1	1U76	1U7	1U0	1U4-	8U2-	I I b
ZAqonAum	51 1	1U04	1U22	1U25	1U42	15U84	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J97 2	&sTsFdPP:u sb r :9	S- SqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	0U76	7UJ1	6U71	6U66	12U70	DDe
q5Tb n5%	121 1	SUS0	SUS6	SUSJ	SUS0	1NUJ4	DDe
qpwr 5cd	07 2	SUS2	SUS-	SUS1	SUS2	4- USJ	DDe
Bspcmb	1- 7 1	2U6-	2UJ4	2U6S	2U7-	6U20	DDe
Bspcmb	1- 0 1	2U67	2U64	2U76	2U62	1UN-	DDe
Br p%PPmb	J 1	SUS2	SUS2	SUS1	SUS2	2- U26	DDe
Bcvb mTE	2SJ 1				J6		G
Bcvb mTE	2SJ 2				JJ		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUS7	SUS-	SUJ-	SU1S	1J1UN4	DDe
v sob cmb	1S6 1	2UJ0	- U62	6U12	4U24		DDe
v sob cmb	111 1	SUS1	SUS2	SUSN	SUS4		DDe
v sPdcmb	4- 1	67UJ0	6JU1J	64U4-	66U7-	- U67	DDe
v sPdcmb	44 1	11- UN7	117U14	1SJUJ-	112UJ0	2U4S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	1UJ1	1UJ4	1U06	1UN0	7US2	DDe
v nesPT	7J 2	SU16	SU12	SU1-	SU14	12UN7	DDe
v nDDr p	6- 2	SU40	SU71	SU41	SU46	1SU2J	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				J6		G
h nPb cmb	167 2				1SS		G
t5ocmb	117 1				J7		G
t5ocmb	117 2				J0		G
tpn5	74 2	404U11	406USJ	40- U61	404U6S	SU2N	DDe
tpn5	76 2	401U0-	4N6USO	40- UJS	400U2-	1U62	DDe
tpn5	70 2	407U7S	4JSU76	476U06	404U20	- U70	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	SUJN	SUJ-	SUJN	SUJ0	0UJ-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 724 S0	t5wTpmb 5r Tusb r :9	8 N
v R 5TI sb DP:t&:9	y h SFqS	&dmTm5:FsdTnp:9	1
&sT :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdP:usb r :9	S- SqC. Fub

8spsb r Tp	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	SU4	SU1	SU4S	SU7	12U4-	DDe
Lr so	2SN 1	SU6	SU4	SU0	SU6	- UJJ	DDe
LdEmb	6 1				N7		G
y sM5r wmb	24 2	0U02	JU6	6U44	0UN4	1NU6N	DDe
y s5Ms5r wr	77 2	- U7N	- U0N	- U4-	- U6S	4UJ4	DDe
y nP%eor 5mb	J4 1	SUS-	SUSJ	SU1-	SUSN	7NU0	DDe
y nP%eor 5mb	J7 1	SUS0	SUS-	SUSJ	SUS6	42U64	DDe
y nP%eor 5mb	J6 1	SUS7	SU11	SUS6	SUS0	4- USN	DDe
y nP%eor 5mb	J0 1	SUS6	SUS6	SUS4	SUS7	22U74	DDe
y nP%eor 5mb	JN 1	SUS4	SUS6	SUS0	SUS6	- 2U17	DDe
u r no%b mb	17S 1						dDw
u r no%b mb	17S 2						dDw
u dkr P	6S 2	1U07	1U04	1U02	1U04	1US0	DDe
8 EnwDEnpmw	- 1 2	0UJS	JU6-	JUJ7	2U04		DDe
8 nTswwmb	- J 2	40U61	72UN0	44U7J	4NU6	NU66	DDe
CEnomb	1S- 1				J7		G
CEnomb	1S- 2				JN		G
I ds5omb	47 1				J4		G
I ds5omb	47 2				J6		G
I r P 5mb	N2 1	SU11	SU0-	SU14	SU2-		DDe
I r P 5mb	00 2	SUJN	SUJN	1UJS	SUJN	- 44U7-	DDe
I r P 5mb	0N 2	SU7-	SU72	SU1-	SU1	121U00	DDe
I dRdn5	2N 1	1U7S	1U-	1U2	1UN	0U24	DDe
I dgr p	1S0 1	SUSS	SUS1	SUS1	SUSS	102U12	DDe
I dgr p	1SJ 1	SUSS	SUSS	SUSS	SUSS		DDe
I nomb	2- 2	266UNN	267U42	26SU76	264U2N	1U27	DDe
I Tpm5Tmb	N6 1	SU26	SU22	SU2-	SU24	NU72	DDe
I Tpm5Tmb	NN 1	SU21	SU21	SU22	SU22	1U67	DDe
I mPmp	- 4 1	22U27	26NU7-	44NU4	246U0		DDe
Ar pemb	17J 1				J0		G
Ar pemb	17J 2				JN		G
AEs Rmb	2S- 1	SUS7	SUS4	SUS7	SUS7	JU6	DDe
AEs Rmb	2S7 1	SUS4	SUS-	SUS2	SUS-	1JUSN	DDe
Ad5	11N 1	SU0	SU4	SU6	SU6	- U64	DDe
AdS5mb	40 1	1U4	1U62	1U42	1U46	1SUS4	DDe
Rps5mb	2- N 1	SUSS	SUSS	SUSS	SUSS	- 4U4	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdP:u sb r :9	S- SqC. Fub

8 sspsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	SUS4	SUS7	SUS7	SUS7	10U66	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	NJ 1				J7		G
YTTpomb	NJ 2				JN		G
Zc5d	66 2	NU0S	NU7-	NU60	NU64	1US7	DDe
Zqpdn5omb	JS 1	SUS1	SUS2	SUSS	SUS1	NNU0S	DDe
Zqpdn5omb	J1 1	SUS4	SUS1	SUS2	SUS2	17NU41	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	:SF11	:SF5-	SF50	:SF57		l l b
c5&mn5h	121:1	SF51	SF51	SF51	SF51	74F0-	l l b
crwe5Aq	0-:2	SF57	SF5S	SF51	SF51	1S7F 6	l l b
BsrAum	17-:1	SF5S	SF51	SF5S	SF5S	181F04	l l b
BsrAum	170:1	SF5S	SF51	:SF51	SF5S	1---F41	l l b
BerhFAum	:1	SF5S	SF51	SF5S	SF51	1- F40	l l b
BAumu&%	2S :1				1S2		E
BAumu&%	2S :2				1S7		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF74	SF-7	SF14	SF74	-8F00	l l b
CsOmAum	1S6:1	:7F6-	:2F52	:7F88	:7F18		l l b
CsOmAum	111:1	:SF5-	:SF5-	:SF54	:SF5-		l l b
CsRqAum	47:1	SF7	:SF8	:1F57	:SF-1		l l b
CsRqAum	44:1	28F88	26F68	20F1	20F-8	4F18	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	:SF51	SF5-	:SF56	:SF51		l l b
CnbsR&	- :2	:SF51	:SF51	SF5S	:SF51		l l b
CnI l er	67:2	SF50	SF50	SF14	SF5	78F82	l l b
t hwl rnwAum	1-6:1						ql w
t hwl rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S1		E
HnRmAum	16-:2				1S4		E
D5OAum	11-:1				1S1		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	SF22	:SF52	SF14	SF11	111F22	l l b
Dn5	-6:2	SF5	SF54	SF2S	SF11	04F2	l l b
Dn5	-0:2	:1F22	:SF-S	:SF74	:SF6		l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF51	SF5S	:SF51	SF5S	70-F	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S1	SF5S1	SF5S2	SF5S1	4-F1S	I I b
LesO	2S8:1	SF5S2	SF5SS	SF5SS	SF5S1	6F84	I I b
LA&%Aum	6:1				7		E
y sM5ewAum	24:2	SF24	SF1	:SF5-	SF17	127F-2	I I b
y s5Ms5ewe	- - :2	SF54	SF52	SF54	SF57	40F1-	I I b
y nPbOe5um	4:1	SF51	SF5-	SF5-	SF54	-6F1-	I I b
y nPbOe5um	- :1	SF5S	SF51	SF51	SF51	70F24	I I b
y nPbOe5um	6:1	SF51	SF52	SF51	SF51	-4F71	I I b
y nPbOe5um	0:1	SF5S	SF54	SF5S	SF51	1-8F2	I I b
y nPbOe5um	8:1	SF51	SF5S	SF5S	SF51	7F78	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF51	SF51	SF5S	SF51	- -F21	I I b
3%nwl %nruw	71:2	:7 F26	SF14	:44F46	:20F86		I I b
3n&swwAum	7 :2	4F60	6F8S	1SF8-	0F44	42F21	I I b
v %nOAum	1S7:1				1S1		E
v %nOAum	1S7:2				1S-		E
pqs5OAum	4- :1				1S1		E
pqs5OAum	4- :2				1S1		E
pefe5Aum	82:1	:SF61	:SF20	:SF1	:SF76		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	:SF-0	:SF10	SF48	:SF5		I I b
pAAqn5	28:1	SF22	SF57	SF58	SF11	SF58	I I b
pAger	1S0:1	SF51	SF51	SF5S	SF51	0F27	I I b
pAger	1S :1	SF5S	SF51	SF51	SF5S	81F6S	I I b
pnOAum	27:2	72F42	70F74	48F41	7 F7	2SF8S	I I b
p&n5&Aum	86:1	:SF57	SF50	:SF51	SF51	4-8F21	I I b
p&n5&Aum	88:1	SF57	SF57	SF5S	SF52	6F4S	I I b
pufur	74:1	:-S6F-6	:8- -F-2	:4-4F 2	:6S-F60		I I b
i erbAum	1- :1				1S2		E
i erbAum	1- :2				1S7		E
i %sPAum	2S7:1	SF57	SF54	SF54	SF54	18F7S	I I b
i %sPAum	2S-:1	SF52	SF52	SF54	SF57	24F52	I I b
i A5	118:1	:SF51	SF5S	SF1-	SF5-	1 6F21	I I b
i A&5Aum	40:1	SF5S	:SF5-	SF52	:SF51		I I b
Rrs5Aum	278:1	SF5S	SF5S	SF5S	SF5S	2F48	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 4JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	-1:2	:SF5S1	SF5SS	:SF5S1	SF5SS		l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S2		E
Y&&Aum	8 :2				1S8		E
ZA5q	66:2	:SF5S8	:SF5S0	SF5S7	:SF5S4		l l b
ZAqn5Aum	S:1	:SF5S1	SF5S1	SF5SS	SF5SS	1-86F4-	l l b
ZAqn5Aum	1:1	SF5SS	:SF5S1	:SF5S1	:SF5S1		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l 8pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J14aS a14	t w&wJA8 Ju wb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	77F6	74F-S	4SF-0	76F2-	1SF70	l l e
c58Ab n5h	12191	7F1N	7F2-	7F2N	7F27	1F-4	l l e
cpl r 5Aq	0-92	1FNS	1F 1	1F62	1F0N	NF7S	l l e
BwpAmb	17-91	1-F76	16F41	16F72	16FS7	7F62	l l e
BwpAmb	17091	1-F6N	16F7-	16F10	16FS0	2F16	l l e
Br ph8Amb	91	1F62	1F6S	1F-1	1F-N	7F6-	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S-		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	2FSN	1F 0	2FN4	2F2	2SF-	l l e
CwCb Amb	1S691	SF1-	9-F4N	SF74	91F66		l l e
CwCb Amb	11191	1F S	1F00	1F64	1F00	0F2N	l l e
Cw8qAmb	4791	04SF02	024FN2	02NF-0	071F70	1F14	l l e
Cw8qAmb	4491	0-4F06	07 F61	062F01	0-2F76	1F-6	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%8np5r	7-91						ql l
C%8np5r	7-92						ql l
C%pmb Amb	-292	7F27	7F1N	7F21	7F21	SF0N	l l e
Cnew8&	- 92	1F6N	1F6	1F6	1F6	SF7S	l l e
CnI l r p	6792	7F6S	7F67	7F6S	7F61	SF-7	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn85Amb	16S91						ql l
GwOn85Amb	16S92						ql l
Hn8b Amb	16-91				1S7		E
Hn8b Amb	16-92				1S-		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S7		E
Dpn5	-492	774F0N	742F70	776FN2	770F	1F16	l l e
Dpn5	-692	774FN4	77 F-N	772F2-	77-F-6	1F11	l l e
Dpn5	-092	726F0-	726F-N	720FS4	726F0	SFS0	l l e
Kphl 8a5	N791						ql l
LrwO	2S691	1F4	1F-2	1F4N	1F-S	1F42	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 2SB:	D5l &pmb 5r &uwb r Ja	3N
C&A5&J wb l &JD JaJ	LC: 2S	t A&m&A5JJwq&apJa	1
t w&JTJ A&r Jcqdm&r QJa	2S279S0912J14aS a14	t w&wJA&JuwbrJa	S77LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
LrwO	2S091	1F-	1F40	1F4	1F- S	2F06	I l e
LrwO	2SN91	1F4	1F- 1	1F40	1F4	1F7	I l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N- 7F- 1	N- 2F14	N7NF76	N4NFSS	SF	I l e
y w5Mw5r l r	- - 92	1F02	1FN6	2FSS	1FN6	0F4	I l e
y n8neOr 5mb	491	NFNS	NF- 1	NF6-	NF0	1F- 2	I l e
y n8neOr 5mb	- 91	0F71	0F7S	0F- 6	0F7	1F 6	I l e
y n8neOr 5mb	691	0F46	0F- 1	0F6-	0F- 4	1F7S	I l e
y n8neOr 5mb	091	0FS4	0F6N	0F7	0F70	4F76	I l e
y n8neOr 5mb	N91	0F4S	0F2-	0F40	0F70	1F- 0	I l e
u r nOhb Amb	1- S91						q l l
u r nOhb Amb	1- S92						q l l
u Aqkr 8	6S92	1FN6	2F1S	2FS6	2FSS	6F74	I l e
3 %nl l %npm	7192	920FN-	916FN2	971F6	92- F4-		I l e
3 n&w l Amb	7 92	N12F N	N2 F-	NS0F- N	N16F0S	1F4S	I l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4- 91				1S1		E
: qw5OAmb	4- 92				1S1		E
: r & 5Amb	N291	NFSN	NF- 4	NF- 0	NF4S	7F2	I l e
: r & 5Amb	0092	12F66	1SF62	4F00	F7-	47FNS	I l e
: r & 5Amb	0N92	F4S	1SF- 4	NFS0	F74	17F2-	I l e
: A&qn5	2N91	1F22	SF 4	1F11	1FS	17FS7	I l e
: A&gr p	1S091	1F4	1F64	1F01	1F61	6F N	I l e
: A&gr p	1S 91	1F64	1F67	1F62	1F67	SF6S	I l e
: nOAmb	2792	NN7FNN	S1F4N	N- SF7	N0NF- N	2F -	I l e
: &m5&Amb	N691	1F02	1F- 6	1F6S	1F67	- F1-	I l e
: &m5&Amb	NN91	1F6S	1F- 4	1F- 4	1F- 6	2FS0	I l e
: m&mp	7491	9476FS0	956- F2N	9470F27	9- 12FN6		I l e
i r peAmb	1- 91				1S2		E
i r peAmb	1- 92				1S4		E
i %w&Amb	2S791	1F- 0	1F- 0	1F- N	1F- 0	SF2N	I l e
i %w&Amb	2S- 91	1F- -	1F- 2	1F- 6	1F- 4	1F2N	I l e
i A5	11N91	SFS4	9SFS2	SFS2	SFS1	24SF- 0	I l e
i A&w5Amb	4091	NF7S	0FN2	0F64	0F 2	4F71	I l e
Rpw5Amb	27N91	1F47	1F46	1F46	1F4-	1F26	I l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J14aS a14	t w&WJA8 Ju wb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	- 192	NF74	NF- N	NF- 7	NF4N	1F4N	l l e
Y8& pe Amb	10291						ql l
Y8& pe Amb	10292						ql l
Y8& pe Amb	10691						ql l
Y8& pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S-		E
ZA5q	6692	NF S	F41	NF42	NF 1	- F- 0	l l e
ZAqn5Amb	S91	1F41	1F4N	1F40	1F4-	2F61	l l e
ZAqn5Amb	191	1F- -	1F- S	1F47	1F4	7F 0	l l e

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 896Fh1	1- 0h9F96	1- 2hhF88	1- 69SF08	2F24	l l b
cn&Amon%	12171	SF0-	SF81	SF81	SF0h	9F68	l l b
crsenAq	0972	28F89	26F98	26F- 6	20F26	9FS6	l l b
BarAum	1- 971	- 0hF4S	- 88F28	- h0F24	- 88F- 1	2F- S	l l b
BarAum	1- 071	- 00F2S	- 86Fhh	- hhFS-	- 80F04	2F82	l l b
Ber%lAum	h71	1F81	1F86	1F08	1F82	2FS4	l l b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	2FS8	- F16	1F0S	2F- 2	- 2F60	l l b
RaOmAum	1S671	7SF91	1FSh	7SF- 2	SFSh	h84F69	l l b
RaOmAum	11171	1F90	1F44	1F90	1F9-	9FSS	l l b
RalqAum	4- 71	1819SF4-	189h- FS4	1h- - 0F60	186h- F01	- F21	l l b
RalqAum	4471	18880F86	1h6- 1FS2	1h4S6F- 2	1h- S8F4S	1Fh0	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22F- 0	22F64	21F2S	22FS0	- F46	l l b
Robal&	9h72	16F98	10FS0	16FS1	16F99	- F2S	l l b
Rol l er	6- 72	09F9h	06F41	01F22	04F41	- F09	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S9		G
y olmAum	16972				1S6		G
DnOAum	11971				1S9		G
DnOAum	11972				1S4		G
Don	9472	4- 2S4Fh-	4- Sh2FSS	4S611F06	42- S2FhS	- F46	l l b
Don	9672	424- 4F48	422S4F80	4S262F41	416- - Fh2	2F80	l l b
Don	9072	42- - 0F6h	42814F20	4S2- 0F00	410h6F90	- F28	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	89F44	89Fh8	88Fh1	86F00	2F19	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	82F4S	8- F9-	84F6S	8- F91	1F- 1	l l b
LeaO	2S871	84F99	89F90	80F14	89F09	1F92	l l b
LA&EAum	671				h-		G
MagnesAum	2472	6691F91	66S4F88	6- 69FS-	694SF40	2F- 9	l l b
Manganese	9972	1S21F61	1S1SF14	h90FS9	hh6F20	- F46	l l b
Mol%bOenum	h471	12F14	12F29	12F99	12F- 1	1F0-	l l b
Mol%bOenum	h971	1F66	1F04	1FB1	1F0-	4F- 0	l l b
Mol%bOenum	h671	2FB4	2FBS	2Fh-	2FB6	2F20	l l b
Mol%bOenum	h071	1F01	1FB9	1F06	1F00	- FB4	l l b
Mol%bOenum	h871	1F08	1F09	1FB1	1F08	1Fh4	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- - F29	- - F10	- 1F22	- 2F94	- F9-	l l b
PEosI Eorus	- 172	- 62SFh2	- 208F4h	- 496F- S	- 491FhS	4Fh6	l l b
Po&assAum	- h72	9- 01FS-	9- 4SF- 8	9S84Fh6	9269F46	2Fh8	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S2		G
pelenAum	8271	2FSh	1F92	1F9h	1F0-	18FS2	l l b
pelenAum	0072	49FB8	- 0F- 1	4- F66	42F28	1SF91	l l b
pelenAum	0872	hF1h	0Fh1	8F- 0	8F4h	0F60	l l b
pAAqon	2871	2- 6FB4	242Fh4	29SFS2	24- F26	2F01	l l b
pAver	1S071	SF- 0	SF- 0	SF- 6	SF- 0	SF- 6	l l b
pAver	1Sh71	SF- 4	SF- 4	SF- h	SF- 6	hF29	l l b
poOAum	2- 72	22SF4h	22- Fh8	2ShFS-	210FB-	- F9h	l l b
p&on&Aum	8671	101F40	166F04	16hF64	16hF28	1F41	l l b
p&on&Aum	8871	109F- 2	10- F68	108F4S	109FBS	1F- 6	l l b
pulfur	- 471	718SF91	7216F48	7168Fh9	7188F64		l l b
i erbAum	19h71				1S0		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 6	SF- 6	SF- 9	SF- 6	SF69	l l b
i EallAum	2S971	SF- -	SF- 9	SF- 9	SF- 4	- FB2	l l b
i An	11871	1F98	1F62	1F09	1F69	9F- S	l l b
i A&anAum	4071	116F28	12SF- h	124F6S	12SF42	- F46	l l b
UranAum	2- 871	- F29	- F- -	- F42	- F- -	2F98	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	9hFS1	98F49	99F8-	90F06	2Fh4	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S8		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 21F8h	- 21F92	- S2F04	- 19F- h	- F40	l l b
ZAqonAum	hS71	6F11	6FSh	6F- 9	6F18	2F- 9	l l b
ZAqonAum	h171	6F11	6FS2	6FS1	6FS9	SF86	l l b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 6S4F14	19S61F84	1- 619F80	14Sh- Fh9	9Fh9	l l b
cn&Amon%	12171	SF82	SF08	SF08	SF8S	- F2-	l l b
crsenAq	0972	29FhS	- 1F49	29Fh1	20F09	11F9-	l l b
BarAum	1- 971	- h- F- 6	- 6hF26	- h2F96	- 89FS6	- F96	l l b
BarAum	1- 071	- hSF68	- 04F19	4SSF8-	- 88F96	- F40	l l b
Ber%lAum	h71	1F01	1F04	1F0S	1F02	1F11	l l b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	2FS9	2FS9	2F14	2FS8	2F49	l l b
RaOmAum	1S671	1F29	1F82	7SF42	SF88	1- 1F61	l l b
RaOmAum	11171	1F9S	1F46	1F48	1F48	1F- 6	l l b
RalqAum	4- 71	1821SF44	184S- F01	18102F90	18262F24	SF68	l l b
RalqAum	4471	1hS- 6F8S	18614F40	18689F09	1800hFSS	1F2S	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22FS4	24FS4	21F99	22F94	9F89	l l b
Robal&	9h72	16F84	18F02	16F61	10F- h	6F68	l l b
Rol l er	6- 72	02Fh1	81F42	0- F96	09Fh6	6F2-	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1Sh		G
y olmAum	16972				1S9		G
DnOAum	11971				1Sh		G
DnOAum	11972				1S-		G
Don	9472	4126- F- -	46S82F9-	418S0F44	4- S91F1S	6F1-	l l b
Don	9672	41826F18	49- 11F8S	41- h4F- h	42844F12	9FS1	l l b
Don	9072	4268- F49	46- - 2F1h	41614F91	4- 94- F- 8	9F68	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	86F96	89F96	80F60	86F6S	1F22	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	8- F4h	82F86	84F99	8- F6-	1FS2	I I b
LeaO	2S871	89F01	84F4-	89F0h	89F- 1	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	694- F88	02S8F6-	649hF2h	60- 0F20	6FSh	I I b
Manganese	9972	h89F81	1S8- F81	hhSFh-	1S2SF18	9F41	I I b
Mol%bOenum	h471	11F04	11F49	11Fh6	11F02	2F21	I I b
Mol%bOenum	h971	1Fh-	1F02	1F00	1F81	6F12	I I b
Mol%bOenum	h671	2F09	2F01	2F89	2F00	2F64	I I b
Mol%bOenum	h071	1F84	1F04	1F66	1F09	9F19	I I b
Mol%bOenum	h871	1F06	1F09	1F00	1F06	SF99	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2F46	- 6F- 8	- 2F60	- - F8-	6F92	I I b
PEosI Eorus	- 172	- 4h4F49	- 8- 4F44	- - 48F96	- 99hF19	0FS1	I I b
Po&assAum	- h72	91h0F8h	9084F64	9169F- 0	9- 82F6-	6F48	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1Sh		G
pqanOAum	4972				1S2		G
pelenAum	8271	1F48	1F9h	1F06	1F61	8F88	I I b
pelenAum	0072	- 9F- 8	48F6S	4SF8-	41F61	19Fh0	I I b
pelenAum	0872	6F82	hFh2	6F61	0F08	2- F8-	I I b
pAAqon	2871	2- 9F8-	241F6S	2- SF04	2- 6FS9	2F- S	I I b
pAver	1S071	SF- 0	SF- 4	SF- 0	SF- 6	9F- 2	I I b
pAver	1Sh71	SF41	SF- 0	SF41	SF4S	6F- 8	I I b
poOAum	2- 72	21- F2S	249F89	212FS9	22- F0S	8F98	I I b
p&ona&um	8671	16- F61	198F16	162F9S	161F4-	1F08	I I b
p&ona&um	8871	101FS4	166F20	10SF21	16hF10	1F91	I I b
pulfur	- 471	7928F- h	762SFhS	78- hF0h	766- FS-		I I b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 0	SF- 2	SF41	SF- 0	12F28	I I b
i EallAum	2S971	SF- 0	SF- 9	SF- 8	SF- 0	4F41	I I b
i An	11871	1F01	1F9h	1F6h	1F60	- F80	I I b
i A&anAum	4071	119F21	118F8S	116F61	116F80	1F99	I I b
UranAum	2- 871	- F24	- F2h	- F- 0	- F- S	2FS1	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	96F8-	6- F14	98F- 2	9hF4-	9F94	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 1- F0S	- - 8Fh4	- 12F89	- 21F8-	4F61	l l b
ZAqonAum	hS71	9F0h	9F8-	6FSS	9F80	1F89	l l b
ZAqonAum	h171	6F11	9FhS	6F1-	6FS9	2FS8	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARuminium	23O2	2944.- 4	2974.73	- 1- - .36	- O1O.J9	- .74	ppb
Antimony	12101	O.16	O.1J	O.17	O.16	3.J9	ppb
Arwenic	37O2	6.43	7.3O	6.- 6	6.1J	6.34	ppb
Bsrium	1- 701	34.63	3J.4J	3J.3J	33.- 1	2.96	ppb
Bsrium	1- 301	37.J4	39.39	J1.O6	3J.9O	- .47	ppb
BeryRRum	901	O- 6	O- 2	O.4O	O- 6	1O.J1	ppb
Biwmuth	2O901				1OJ		%
Biwmuth	2O9O2				1O4		%
Bromine	J101						cpw
Csdmium	1OJ01	O- 3	O.2-	O.23	O.29	24.46	ppb
Csdmium	1O601	04.7O	02.12	04.24	0- .62		ppb
Csdmium	11101	O.2J	O- 6	O- 6	O- -	14.- -	ppb
CsRium	4- 01	- 6O6.99	- 912.46	- J77.J2	- 391.36	4.29	ppb
CsRium	4401	- 6OJ.61	- J93.J9	- JJ1.O3	- 397.J6	4.2J	ppb
Csrbon	1201						cpw
Csrbon	12O2						cpw
ChRorine	- 701						cpw
ChRorine	- 7O2						cpw
Chromium	72O2	4.3J	4.67	4.J6	4.36	2.2J	ppb
CobsRR	79O2	- .6O	- .76	- .J3	- .63	4.79	ppb
Copper	6- O2	17.J-	17.J9	16.6J	16.14	2.94	ppb
Dywprowium	1760 1						cpw
Dywprowium	1760 2						cpw
Erbium	1640 1						cpw
Erbium	1640 2						cpw
GsdoRRnium	16O01						cpw
GsdoRRnium	16O02						cpw
HoRRnium	1670 1				1O9		%
HoRRnium	1670 2				1O4		%
Indium	1170 1				1OJ		%
Indium	1170 2				1O-		%
Iron	74O2	J726.2-	J- 1O.77	J9JJ.- -	J6OJ.- 3	4.O2	ppb
Iron	76O2	J9J- .32	J9OJ.24	9- 37.3O	9OJ9.22	2.36	ppb
Iron	73O2	J794.- 2	J2J- .41	J92J.- J	J6O2.O4	- .37	ppb
Krypton	J- 01						cpw
Lesd	2O601	13.- 6	1J.13	1J.3J	1J.1O	- .94	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.34	13.1-	13.94	13.23	- .76	ppb
Lesd	2OJ01	13.1-	13.6J	1J.2O	13.63	- .O4	ppb
Lithium	601				99		%
Msgnewium	24O2	1- 92.93	1- J6.79	17OJ.6J	1429.41	4.J1	ppb
Msngsnewe	77O2	216.O2	21- .O4	224.1O	213.32	2.6-	ppb
MoRybdenum	9401	2.61	2.62	2.62	2.62	O.26	ppb
MoRybdenum	9701	O.- 7	O.41	O.- 9	O.- J	J.11	ppb
MoRybdenum	9601	O.6O	O.77	O.6O	O.7J	4.41	ppb
MoRybdenum	9301	O.- 9	O.4J	O.4-	O.4-	1O.1-	ppb
MoRybdenum	9J01	O.- 9	O.- 9	O.4-	O.4O	4.32	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	6.39	3.O-	3.46	3.O9	4.33	ppb
8howphoruw	- 102	364.3O	314.O4	J31.94	3J- .76	1O.29	ppb
8otswwium	- 902	1161.42	1OJ6.22	1222.O4	1176.76	7.JJ	ppb
Rhodium	1O- 01				1OJ		%
Rhodium	1O- 02				1O4		%
Scsndium	4701				1O9		%
Scsndium	4702				1O1		%
SeRenium	J201	O.16	O.O3	O.O7	O.1O	73.42	ppb
SeRenium	3302	4.96	3.3J	6.- -	6.- 6	22.19	ppb
SeRenium	3J02	1.- 6	2.13	- .14	2.22	4O.O6	ppb
SiRcon	2J01	43.1J	49.43	49.J3	4J.J4	2.93	ppb
SiRver	1O301	O.O6	O.OJ	O.O3	O.O3	12.66	ppb
SiRver	1O901	O.OJ	O.O3	O.O6	O.O3	17.19	ppb
Sodium	2- 02	36.16	6J.43	J7.3-	36.39	11.26	ppb
Strontium	J601	- 7.- 9	- 6.- 3	- 6.73	- 6.11	1.34	ppb
Strontium	JJ01	- 4.22	- 7.JJ	- 7.2J	- 7.1-	2.- 9	ppb
SuRfur	- 401	021- 9.1-	01462.74	01391.J-	01393.J-		ppb
Terbium	17901				11O		%
Terbium	17902				1O4		%
ThsRium	2O- 01	O.17	O.14	O.1-	O.14	6.49	ppb
ThsRium	2O701	O.14	O.1-	O.14	O.14	7.JO	ppb
Tin	11J01	O.- 1	O.- 2	O.- 4	O.- 2	7.J2	ppb
Titsnium	4301	2- .66	27.- -	26.O1	27.OO	4.J-	ppb
Ursnium	2- J01	O.67	O.66	O.66	O.66	1.OJ	ppb

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CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	12.- 4	12.2O	1- .1O	12.77	- .J9	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1OJ		%
Yttrium	J90l2				1O6		%
Zinc	660l2	63.- 1	67.- 4	31.76	6J.O3	4.63	ppb
Zirconium	9O0l	1.2O	1.26	1.- O	1.27	- .67	ppb
Zirconium	910l	1.11	1.- -	1.41	1.2J	12.O9	ppb

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14401.P2	14- - 4.Sy	14y14.0P	14h0- .h6	2.SP	ppm
Aotiu Oo%	12171	1P.6h	24.P-	1P.- S	2S.hy	10.Ph	ppm
Aeaboic	0h72	- 4.S-	- 4.Sh	- h.10	- 4.42	1.Py	ppm
BJeiNu	1- h71	0P- .PP	1S6h.2P	006.- P	P0h.1P	1P.P2	ppm
BJeiNu	1- 071	P- 1.26	1Syy.01	P- S.6P	y2S.hh	16.Ph	ppm
Bbe%wiNu	y71	11.0S	14.yh	11.P1	12.P2	14.41	ppm
Biau NtE	2Sy71				1S1		G
Biau NtE	2Sy72				1S0		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1S.SS	12.yS	1S.S1	1S.y0	1h.2h	ppm
UJdu iNu	1S671	P.h-	12.24	0.PP	y.hh	24.61	ppm
UJdu iNu	11171	11.21	1h.42	11.16	12.6S	1y.42	ppm
UJwiNu	4- 71	1Phy2.P4	2h1hP.P0	1y6S4.S2	2111P.hP	16.04	ppm
UJwiNu	4471	1yh26.h2	2hP00.P4	1yP4P.6-	210h1.SS	16.4h	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	61.PS	62.2S	6h.SS	6- .SS	2.00	ppm
UOmJwv	hy72	11P.- 1	11P.- S	12- .04	12S.11	2.61	ppm
UOppbe	6- 72	126.hh	12h.41	1- S.P4	120.6S	2.2h	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S2		G
MOw iNu	16h72				11S		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S0		G
IeOo	h472	4261h.hS	4- - - P.12	4- yP4.64	4- - 12.0h	1.hP	ppm
IeOo	h672	41Py0.yP	4- S- S.- h	4- y4y.12	42yhy.1h	2.- y	ppm
IeOo	h072	42S- h.44	42P24.P1	440- 2.4y	4- 1y0.hP	- .21	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	yh.16	12S.10	y4.yS	1S- .41	14.S-	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	y1.hh	116.1-	y2.S2	yy.yS	14.S0	ppm
LbJd	2SP71	y- .04	110.y-	y- .2S	1S1.62	1- .yS	ppm
LitEiNu	671				yh		G
g JvobaiNu	2472	664P.0S	60- 6.- 2	606y.0S	601P.24	S.y-	ppm
g JovJobab	hh72	11S4.S2	1Syh.4P	1122.P4	11S0.4h	1.26	ppm
g O%mdboNu	y471	11.42	14.0S	12.16	12.06	1- .4P	ppm
g O%mdboNu	yh71	1.01	2.26	1.6y	1.Py	10.- 4	ppm
g O%mdboNu	y671	2.0P	- .- P	2.0S	2.y6	12.40	ppm
g O%mdboNu	y071	1.hy	2.14	1.6S	1.0P	10.h2	ppm
g O%mdboNu	yP71	1.6P	2.11	1.6-	1.P1	14.0h	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	142.0S	142.0-	146.22	14- .PP	1.41	ppm
I EOapEOeNa	- 172	- h4h.yy	- h10.S2	- 0Sh.y-	- hPy.64	2.P-	ppm
I OtJaaiNu	- y72	h- 66.04	h- 6y.S6	hh60.2S	h4- 4.- -	2.12	ppm
n EOdiNu	1S- 71				yy		G
n EOdiNu	1S- 72				1SP		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S6		G
r bwboiNu	P271	1y.h0	2h.- 0	1y.yS	21.61	1h.S0	ppm
r bwboiNu	0072	h0.SS	4y.S1	6y.h6	hP.h2	10.0S	ppm
r bwboiNu	0P72	2h.14	20.- 2	20.yP	26.P1	h.hh	ppm
r iwcOo	2P71	26S.2y	- - 1.41	262.21	2P4.64	14.2-	ppm
r iwRbe	1S071	P.hh	11.61	P.66	y.61	1P.S0	ppm
r iwRbe	1Sy71	P.hh	11.- 0	P.h-	y.4P	10.21	ppm
r OdiNu	2- 72	26S.0h	261.26	26y.- 2	26- .0P	1.P2	ppm
r teOotiNu	P671	164.- 1	221.1h	101.y2	1Ph.0y	16.61	ppm
r teOotiNu	PP71	101.S4	22P.22	1PS.y6	1y- .41	1h.PS	ppm
r NwNe	- 471	71S62.1y	224S.4h	702- .Py	1h1.46	11yy.6P	ppm
TbemiNu	1hy71				1S2		G
TbemiNu	1hy72				1SP		G
TEJwiNu	2S- 71	P.P-	11.16	P.P4	y.61	1- .y6	ppm
TEJwiNu	2Sh71	P.P0	11.1S	P.y4	y.64	1- .1P	ppm
Tio	11P71	1.y0	2.P6	2.S1	2.2P	21.P2	ppm
TitJoiNu	4071	112.hy	140.16	114.- y	124.01	1h.61	ppm
F eJoiNu	2- P71	- .44	4.- 2	- .44	- .0-	1- .hh	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	161.SP	162.- 1	160.S1	16- .40	1.y1	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1S0		G
YtteiNu	Py72				11y		G
Zioc	6672	42y.- y	42h.y2	4- 6.S0	4- S.46	1.2S	ppm
ZiecOoiNu	yS71	h.06	0.0S	6.1S	6.h2	1h.Ph	ppm
ZiecOoiNu	y171	h.Ph	0.4P	h.y6	6.4-	14.10	ppm

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	16849F- S	148h0F21	16289F92	1h998F81	6F42	I I b
c n&Amon%	12171	SFh-	SF49	SF46	SF49	0F- S	I I b
c rsenAq	0h72	- 1F20	29F29	29Fh1	- SFS-	- F61	I I b
BarAum	1- h71	6S6F86	h22F4S	hS4F89	h44F02	1SFS1	I I b
BarAum	1- 071	618F64	h28F6h	h14F88	hh4FS6	1SF10	I I b
Ber%lAum	971	2F22	2FS4	1F9-	2FS6	0F12	I I b
BAsmu&E	2S971				1S-		G
BAsmu&E	2S972				112		G
BromAne	8171						ql s
RaOmAum	1S871	1F62	1Fh1	1F0-	1F62	6F0h	I I b
RaOmAum	1S671	71F8h	1F48	71F28	7SFhh		I I b
RaOmAum	11171	1F69	1F- 2	1F2-	1F41	10F19	I I b
RalqAum	4- 71	220- hF28	19494FS9	19140F16	2S4h8F84	9F60	I I b
RalqAum	4471	2- 662F0h	2S24- F12	19h94F18	21166F68	1SF- -	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	- SF98	20F69	29Fh8	29F42	hF62	I I b
Robal&	h972	2- F9-	21FSh	2- F41	22F09	6F04	I I b
RoI I er	6- 72	68Fhh	61F20	60FS-	6hF61	hF8h	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S4		G
y olmAum	16h72				11-		G
DnOAum	11h71				1S2		G
DnOAum	11h72				11S		G
Don	h472	h46- 8F0-	48904F84	h261hF- 2	h2S06F- S	hFh1	I I b
Don	h672	h- 6- 1F88	48488F48	h2S90F06	h14S6FS4	hF14	I I b
Don	h072	hh641F11	4096- F08	h2860F2h	h21h0F- 8	0F4h	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S4F0-	89FSh	88F8-	94F2S	9F68	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	98F2-	84F92	8hF11	89F42	8Fh-	I I b
LeaO	2S871	1S1Fh1	80F22	86F88	91F80	9FS9	I I b
LA&EAum	671				96		G
MagnesAum	2472	0h88F96	6684F66	0- 04F9h	0216F19	6Fhh	I I b
Manganese	hh72	1112F99	1SShF- 9	1S6SF22	1Sh9Fh-	hFS8	I I b
Mol%bOenum	9471	1SF82	8F84	9FhS	9F02	1SF- 8	I I b
Mol%bOenum	9h71	2F12	1F01	1F08	1F80	11F80	I I b
Mol%bOenum	9671	2F99	2Fh2	2F6-	2F01	8F96	I I b
Mol%bOenum	9071	2F2h	1F6S	1F00	1F80	10F92	I I b
Mol%bOenum	9871	2FS8	1F06	1F09	1F88	9F48	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	49F00	4- F99	40F04	40F10	6F22	I I b
PEosI Eorus	- 172	- - 19FSS	2886F89	- 194F4-	- 1- - F44	0F1S	I I b
Po&assAum	- 972	4SShF48	- h- - F42	- 862F80	- 8SSFh9	6F- 0	I I b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				112		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S9		G
pelenAum	8271	2F40	1F- 6	1F01	1F84	- SF0h	I I b
pelenAum	0072	4SF- 2	4- Fh4	2hF44	- 6F4-	26FhS	I I b
pelenAum	0872	1SF10	9F- 1	8F18	9F22	1SF84	I I b
pAAqon	2871	- 28F4-	282F80	28- F- -	298F21	8F08	I I b
pAver	1S071	SF40	SF40	SF4S	SF4h	8F69	I I b
pAver	1S971	SFh1	SF41	SF4h	SF4h	1SF08	I I b
poOAum	2- 72	42SF61	- h6F80	4S2F11	- 9- F2S	8F- 4	I I b
p&on&Aum	8671	212FSh	182F81	18hF61	19- F49	8F- 4	I I b
p&on&Aum	8871	21- F10	19SFh0	19SF19	190F98	6F6h	I I b
pulfur	- 471	7100Fh2	71h99F0-	716h8F18	7114hF14		I I b
i erbAum	1h971				1S2		G
i erbAum	1h972				111		G
i EallAum	2S- 71	SFh2	SF- 9	SF4h	SF4h	14F08	I I b
i EallAum	2Sh71	SFhS	SF4-	SF4h	SF46	8F- 8	I I b
i An	11871	1F88	1F62	1Fh0	1F69	9Fhh	I I b
i A&anAum	4071	94F88	82FS9	8SFS-	8hF60	9F- 9	I I b
UranAum	2- 871	4F8h	4F21	4F24	4F4-	8FS6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	h172	0- F1h	6hF92	01FS4	0SFS-	hF- 1	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				1S9		G
Y&&Aum	8972				122		G
ZAnq	6672	29SFS6	2h4F61	20- Fh2	202F0-	6FhS	l l b
ZAqonAum	9S71	hF19	4Fh6	4Fhh	4F00	0F01	l l b
ZAqonAum	9171	hF- 6	4F46	4F- -	4F02	11F9-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:1492209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJ:v onqU	v onqCpt	RnA&w
cRmAAm	2072	146 SU0J	14246U 1	1441JUS2	144- JU44	1U41	l l b
cn&mon%	12171	SUJ 1	SU0	SU05	SU0J	- UJ 1	l l b
crwenAq	0 72	4SU66	- JUJ 1	- JU64	- 5U2S	- U2-	l l b
BsrAm	1- 71	- J6UJ0	- 54U6	- J5U25	- 5SU20	1US2	l l b
BsrAm	1- 071	- 51U2	- 5JUS0	- 54UJ-	- 54U02	SUJ6	l l b
Ber%RAm	571	2U1S	2U1S	2US5	2U1S	SUJ 2	l l b
BAmu&E	2S571				1SJ		G
BAmu&E	2S572				1S5		G
BromAe	J171						ql w
v sOmAm	1SJ71	1UJ4	1U50	1UJ0	1UJ5	- U45	l l b
v sOmAm	1S671	2US5	1U44	7SU0-	SU5-	1 JUJ	l l b
v sOmAm	11171	1U6	1U-	1U	1UJ	4U15	l l b
v sRqAm	4- 71	4120 U40	41 2SU14	410 1U16	41 1 U5	SU0	l l b
v sRqAm	4471	42J15U41	4242- UJ	421S- USJ	4244JU62	SUJ	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAe	- 71						ql w
v ERrAe	- 72						ql w
v EromAm	272	- - U14	- 2U22	- - U1	- 2UJ4	1U62	l l b
v obsR&	572	2SU0	2SU1J	2SUJ	2SU4-	1U44	l l b
v ol l er	6- 72	JUSS	0U1S	0U62	0UJ	SU05	l l b
t %wl rowAm	1 671						ql w
t %wl rowAm	1 672						ql w
. rbAm	16471						ql w
. rbAm	16472						ql w
HsOoRAm	16S71						ql w
HsOoRAm	16S72						ql w
hoRmAm	16 71				1S5		G
hoRmAm	16 72				11S		G
DrOAm	11 71				1S		G
DrOAm	11 72				1S0		G
Don	472	4- 20- US	425- U05	4- 650UJ	4- - S2US0	SUJJ	l l b
Don	672	4- S20US6	42 55U-	425- US1	42J - UJ0	SU-	l l b
Don	072	44S22U6	4- 6 4UJ0	42J- 4U60	4- S- U5S	1U4S	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	6JU4	65US1	6JU11	6JU2	SU66	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:1492209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	6 U05	6 U64	64U6-	6 U6	SU56	I I b
LesO	2SJ71	60U1J	66U52	66U54	60US1	SU22	I I b
LA&EAum	671				55		G
y sMnewAum	2472	12 JJU24	12126U21	12154U64	12- S- US-	2US-	I I b
y snMsnewe	72	21- 6U44	2S 5UJ	216 U50	212SU0	2U J	I I b
y oP%bOenum	5471	0UJ	0U56	JU26	JUS2	2U65	I I b
y oP%bOenum	5 71	- U52	- U5	4U2	4US4	4U46	I I b
y oP%bOenum	5671	4U45	4U-4	4U4	4U4-	1U01	I I b
y oP%bOenum	5071	4U16	4U26	4US	4U1	2U2	I I b
y oP%bOenum	5J71	- U52	- UJJ	4U15	4USS	4U2S	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	44US6	4- U4J	4- U60	4- U0-	SU6J	I I b
8 EowI Eoruw	- 172	- 515U50	- 04JU-1	- 5S0U0	- J JU6J	2U4J	I I b
8 o&swwAum	- 572	J- 5U0J	665U65	5- 5U01	J16U4S	2U-	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S5		G
pqsnOAum	4 71				1S6		G
pqsnOAum	4 72				1S6		G
pe?enAum	J271	2U21	2US1	2U10	2U1-	US6	I I b
pe?enAum	0072	44UJ0	4U24	40U62	4JU51	5UJ6	I I b
pe?enAum	0J72	1SU-S	JU5S	5U-J	5U2	0U4J	I I b
pA?qon	2J71	2 6US4	2 U6	261U2	2 0U61	1U2-	I I b
pA?ger	1S071	SU4J	SU40	SU45	SU4J	2U50	I I b
pA?ger	1S571	SUS	SU1	SU46	SU45	U45	I I b
poOAum	2- 72	- 6JU55	- 4U4S	- 6SU	- 61U-1	2US-	I I b
p&ona&Aum	J671	1J2U56	1J1U-	1J5U05	1J4U0S	2U4-	I I b
p&ona&Aum	JJ71	151U25	1J6UJ6	15SU22	1J5U46	1U22	I I b
pu?Pur	- 471	2454U42	26- - U2	2J1 U62	2640UJ	6USJ	I I b
i erbAum	1 571				1S5		G
i erbAum	1 572				111		G
i EsPAum	2S- 71	SU4	SU4	SU46	SU4	1U2J	I I b
i EsPAum	2S 71	SU40	SU44	SU4	SU4	- US	I I b
i A	11J71	1SU60	1SU6-	1SU04	1SU6J	SU	I I b
i A&snAum	4071	141US	141UJ1	144US0	142U46	SU55	I I b
RrsnAum	2- J71	U6	U4-	U40	U2	2U1-	I I b

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LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
VsnsOAum	172	0SU66	65U-J	0SUSJ	0SUS4	SU52	I I b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				11		G
Y&&Aum	J572				121		G
ZAnq	6672	- 02U2-	- 60U2	- 04U52	- 01U40	1US	I I b
ZAqonAum	5S71	2U	2U -	2U06	2U62	4U54	I I b
ZAqonAum	5171	2U0-	2U0S	2U6J	2U01	SU51	I I b

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	yy16.S1	y640.11	yhP1.0y	y014.y0	1.P2	ppm
Aotiu Oo%	12171	S.PS	S.06	S.0y	S.0P	2.0P	ppm
Aeaboic	0h72	2y.S-	2P.S6	20.1P	2P.Sy	- .- 1	ppm
BJeiNu	1- h71	204.- P	24y.- 1	240.PP	2h0.1y	h.PS	ppm
BJeiNu	1- 071	20y.1P	24y.14	2hS.yh	2hy.06	6.4P	ppm
Bbe%wiNu	y71	1.61	1.hh	1.h0	1.hP	1.04	ppm
Biau NtE	2Sy71				1S6		G
Biau NtE	2Sy72				1SP		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6h	1.y1	1.y1	1.P2	P.2h	ppm
UJdu iNu	1S671	S.PP	S.2-	1.2-	S.0P	64.61	ppm
UJdu iNu	11171	1.y1	1.60	1.hP	1.02	1S.S6	ppm
UJwiNu	4- 71	4214h.Sy	- P624.61	- PhS1.S0	- y0h6.y2	h.2S	ppm
UJwiNu	4471	42yS- .y1	- y2- 0.yy	4SPhy.P6	41SSS.hy	4.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	22.11	21.h6	21.Sh	21.h0	2.44	ppm
UOmJw	hy72	12.00	12.S1	12.1-	12.- S	- .- -	ppm
UOppbe	6- 72	- 6.6h	- h.yP	- h.y-	- 6.1y	1.1S	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sy		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				1Sh		G
IeOo	h472	- 1SPS.2-	- 11Py.4-	- Sh16.h0	- Sy2P.04	1.10	ppm
IeOo	h672	- SPhP.- 4	- SS6S.yS	2yy40.y4	- S2Py.S6	1.64	ppm
IeOo	h072	2PyyS.6-	2P2- P.11	2P2Ph.S6	2PhS4.6S	1.4P	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	44.62	41.- 4	41.S6	42.- 4	4.6P	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	42.0h	- P.hh	- y.Py	4S.4S	h.- 1	ppm
LbJd	2SP71	4- .4h	- y.yS	4S.yy	41.4h	4.- y	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	121P4.44	12SS- .21	11y2y.- y	12S- y.S1	1.Sy	ppm
g JovJobab	hh72	1- h- .SP	1- 22.44	1- 1S.PP	1- 2P.PS	1.64	ppm
g O%mdboNu	y471	0.62	0.20	0.2S	0.- 6	- .1-	ppm
g O%mdboNu	yh71	4.0-	4.h2	4.- 6	4.h4	4.S-	ppm
g O%mdboNu	y671	4.yP	4.6y	4.0h	4.P1	- .11	ppm
g O%mdboNu	y071	4.y1	4.0y	4.hh	4.0h	- .P6	ppm
g O%mdboNu	yP71	4.0S	4.h1	4.42	4.hh	- .Sy	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	2y.4P	2P.SP	2P.1y	2P.hy	2.01	ppm
I EOapEOeNa	- 172	2y6y.46	26S0.S4	2PP- .0P	2P2S.Sy	6.02	ppm
I OtJaaiNu	- y72	- 6P2.h-	- h- - .P1	- h- P.y6	- hPh.1S	2.- h	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1Sh		G
r cJodiNu	4h71				1S6		G
r cJodiNu	4h72				1S2		G
r bwboiNu	P271	1.P4	1.P2	1.hP	1.04	P.1y	ppm
r bwboiNu	0072	2P.h-	- 4.hh	- 2.hy	- 1.Py	y.62	ppm
r bwboiNu	0P72	1S.S-	P.hy	0.y6	P.P6	11.y6	ppm
r iwcOo	2P71	1PP.SS	106.S6	104.yh	10y.60	4.S-	ppm
r iwRbe	1S071	S.41	S.42	S.4-	S.42	2.4y	ppm
r iwRbe	1Sy71	S.46	S.- P	S.42	S.42	y.yS	ppm
r OdiNu	2- 72	- P1.y4	- 60.P1	- 6S.y4	- 0S.2-	2.Py	ppm
r teOotiNu	P671	12y.1-	11y.0P	11P.01	122.h4	4.6P	ppm
r teOotiNu	PP71	1- 4.hS	124.2P	126.h0	12P.4h	4.10	ppm
r NwNe	- 471	1S06.- 6	20h.41	214.1S	h21.y6	y2.10	ppm
TbemiNu	1hy71				1S6		G
TbemiNu	1hy72				1Sy		G
TEJwiNu	2S- 71	S.- 6	S.2y	S.2y	S.- 1	12.- -	ppm
TEJwiNu	2Sh71	S.- 2	S.- 4	S.- 2	S.- -	- .4S	ppm
Tio	11P71	1.y2	1.6-	1.P1	1.0y	P.2S	ppm
TitJoiNu	4071	124.21	114.21	116.- -	11P.2h	4.46	ppm
FeJoiNu	2- P71	- .P-	- .hS	- .h6	- .6-	4.Py	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	4h.21	44.10	44.4h	44.61	1.21	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				111		G
YtteiNu	Py72				116		G
Zioc	6672	- 0- .1y	- 02.- S	- 0S.2h	- 01.y2	S.41	ppm
ZieoOoiNu	yS71	2.14	2.S4	2.SP	2.SP	2.4-	ppm
ZieoOoiNu	y171	2.2S	1.P6	2.S-	2.S-	P.4-	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14yy- .60	1h1- P.2S	1h14- .Sy	1hSy1.6h	S.h6	ppm
Aotiu Oo%	12171	1.4S	1.2P	1.2S	1.2y	0.y6	ppm
Aeaboic	0h72	60.P4	6y.40	6P.0S	6P.60	1.1y	ppm
BJeiNu	1- h71	4Py.40	422.- 1	4S1.10	4- 0.6h	1S.h4	ppm
BJeiNu	1- 071	4y0.y0	41P.64	4S6.14	44S.y2	11.- S	ppm
Bbe%wiNu	y71	2.- S	2.SS	1.yP	2.1S	P.6-	ppm
Biau NtE	2Sy71				1S4		G
Biau NtE	2Sy72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.64	2.S2	2.4h	2.- 0	1- .- y	ppm
UJdu iNu	1S671	S.- y	1.1h	S.0-	S.06	hS.S2	ppm
UJdu iNu	11171	- .1-	2.0-	2.- y	2.0h	1- .4-	ppm
UJwiNu	4- 71	106- y.- -	14h0h.2y	1- y6P.6y	1h- y4.4-	12.0P	ppm
UJwiNu	4471	1P21h.hP	14044.1P	14- 6S.02	1h00- .hS	1- .46	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOaiob	- h71						cpa
UEwOaiob	- h72						cpa
UEeOu iNu	h272	21.y1	22.S-	21.01	21.PP	S.0-	ppm
UOmJw	hy72	1- .- 4	1- .P2	1- .- -	1- .hS	2.S6	ppm
UOppbe	6- 72	40.00	4P.1-	4P.1P	4P.S2	S.40	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5 emiNu	16471						cpa
5 emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S4		G
MOw iNu	16h72				1S0		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S-		G
IeOo	h472	- hS1y.hh	- h61h.2h	- h1- 4.- y	- h2h6.4S	S.yS	ppm
IeOo	h672	- 460S.6P	- hSy4.y0	- - y1S.P0	- 4hhP.P4	1.04	ppm
IeOo	h072	- 21h6.yP	- 266h.0P	- 2- 1h.- S	- 2- 0y.- h	S.PS	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21- .P1	1P6.- 0	106.P-	1y2.- 4	y.yP	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	2S- .00	10- .0y	10- .h4	1P- .0S	y.46	ppm
LbJd	2SP71	21y.h1	1P4.Py	1P1.yh	1yh.4h	1S.6y	ppm
LitEiNu	671				y0		G
g JvobaiNu	2472	hy26.Ph	hy10.0h	hPS- .6S	hPP2.0-	1.10	ppm
g JovJobab	hh72	12P- .h-	12y2.1y	1204.SS	12P- .24	S.01	ppm
g O%mdboNu	y471	y.SS	0.60	6.06	0.P1	14.46	ppm
g O%mdboNu	yh71	- .y0	- .1S	- .S1	- .- 6	1h.04	ppm
g O%mdboNu	y671	4.4S	- .4h	- .- 6	- .04	1h.- 6	ppm
g O%mdboNu	y071	- .h6	- .- y	- .S1	- .- 2	P.h1	ppm
g O%mdboNu	yP71	- .01	- .24	- .1-	- .- 6	y.S6	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.h2	20.6-	20.2P	20.4P	S.60	ppm
I EOapEOeNa	- 172	266h.4S	2P1S.hP	26- 6.h1	20S4.16	- .4h	ppm
I OtJaaiNu	- y72	hy41.6-	6S2P.1y	6S4S.61	6SS- .4P	S.yS	ppm
n EOdiNu	1S- 71				1S1		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S-		G
r bwboiNu	P271	1.46	S.01	1.14	1.1S	- 4.20	ppm
r bwboiNu	0072	46.4y	40.4-	44.4-	46.12	- .- -	ppm
r bwboiNu	0P72	P.20	6.00	0.2S	0.41	1S.46	ppm
r iwcOo	2P71	2Ph.4-	2- 1.00	22S.h2	24h.y1	14.11	ppm
r iwRbe	1S071	1.- 6	1.14	1.12	1.21	11.S-	ppm
r iwRbe	1Sy71	1.- 4	1.1y	1.12	1.21	P.yy	ppm
r OdiNu	2- 72	220.y1	2- 2.y-	2- 2.01	2- 1.1P	1.2-	ppm
r teOotiNu	P671	120.P0	1S6.24	1S1.- 0	111.P-	12.62	ppm
r teOotiNu	PP71	1- 1.62	11S.hS	1Sh.41	11h.Ph	12.SS	ppm
r NwNe	- 471	12hh.40	71S02.14	71h10.PS	7444.P2		ppm
TbemiNu	1hy71				1Sh		G
TbemiNu	1hy72				1S6		G
TEJwiNu	2S- 71	S.h2	S.40	S.40	S.4y	6.S2	ppm
TEJwiNu	2Sh71	S.h-	S.46	S.46	S.4P	P.26	ppm
Tio	11P71	0.2y	6.- -	6.Sy	6.h0	y.62	ppm
TitJoiNu	4071	221.41	1P- .60	104.22	1y- .1S	12.y-	ppm
FeJoiNu	2- P71	- .64	- .16	- .Sy	- .- S	y.2S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	62.h0	6- .Sy	62.- h	62.60	S.61	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				116		G
Zioc	6672	- hy.SP	- 6h.02	- 6h.- P	- 6- .- y	1.S-	ppm
ZiecOoiNu	yS71	- .2h	2.0P	2.hP	2.P0	12.Sh	ppm
ZiecOoiNu	y171	- .2P	2.60	2.02	2.Py	11.0y	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9Ja	&wTwFd8 :u wb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMb:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1S602U2-	1SJ0 U6-	1S606U0S	1S642UJ2	SUJ2	DDe
q5Tb n5%	12171	SU0	SUa2	SU 0	SU J	UJ1	DDe
qpl r 5cd	0J72	J U6	JaU2S	J U06	J Ua4	SUJa	DDe
Bwpcmb	1- J71	206UJ-	2 2U26	2 6USS6	2 1UJJ	1U04	DDe
Bwpcmb	1- 071	20- USS1	2 JU0J	2 1U 1	2 SU1a	2UJ-	DDe
Br p%8cmb	a71	1UJa	1U4-	1U4J	1U4-	2U2a	DDe
Bdb mTE	2Sa71				1S		G
Bdb mTE	2Sa72				1S6		G
Bpmb d5r	171						dDl
v wob cmb	1S 71	2USS0	2USS1	2USS6	2USSJ	1U62	DDe
v wob cmb	1S671	SU2S	7SU20	1U0-	SUJJ	1 aUSS0	DDe
v wob cmb	11171	1Ua	2US-	1Uaa	2USSS	1U22	DDe
v w8dcmb	4- 71	aJ- 6UJJ	a466U 1	a6 JUSS0	aJ62U 1	1U10	DDe
v w8dcmb	4471	1SSS- U4	aa1SUa2	1S2- UJ-	1SSJSUa	1U6	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- J71						dDl
v E8hpd5r	- J72						dDl
v Epmb cmb	J272	16UJ4	16UJ-	16UJS	16UJ2	SU14	DDe
v new8T	Ja72	aUaS	aU40	aU6a	aU6a	2U2S	DDe
v nDDr p	6- 72	- aU -	- aUaa	- aUa2	- aUa1	SU1a	DDe
&%Dpnl cmb	1J671						dDl
&%Dpnl cmb	1J672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16J71				1Sa		G
h n8b cmb	16J72				1S0		G
t5ocmb	11J71				1S		G
t5ocmb	11J72				1S4		G
tpn5	J472	26- 44U 6	26Sa1UJ0	26J0SU41	26- - JUJJ	SUa1	DDe
tpn5	J672	26- 22U4S	2JJ6aUSS	26- - - U2J	26S04U	1U6	DDe
tpn5	J072	242 JU16	24S1JUJ2	24- SU24	24226Ua1	SU0	DDe
Kp%DTn5	- 71						dDl
Lr wo	2S671	1J6U61	1JaU26	162U14	1JaUJ4	1U04	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149-J9Ja	&wTwFd8 :uwb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S071	1J- U0	1J- U11	1J6UJ	1J4UJ2	1U1	DDe
Lr wo	2S 71	16- UJS	16JUa1	166UJ4	16JU2J	SUa-	DDe
LdEcmb	671				1SS		G
y wW5r l cmb	2472	422SU2	41J- UJ	41 1UJS	41 JU14	SUJS	DDe
y w5Mw5r l r	JJ72	4SUaa	2aU01	4SU2S	- 6Ua6	SU0J	DDe
y n8%eor 5mb	a471	4U44	4UJ0	4UJ4	4UJ2	1UJ2	DDe
y n8%eor 5mb	aJ71	1Ua6	2USS	1Ua	1Ua	SUaa	DDe
y n8%eor 5mb	a671	2UJ	2UJ2	2U41	2UJ6	2US-	DDe
y n8%eor 5mb	a071	2U10	2U14	2USJ	2U12	- US-	DDe
y n8%eor 5mb	a 71	2USJ	1Ua6	2US	2US-	- US	DDe
u r no%b cmb	1JS71						dDl
u r no%b cmb	1JS72						dDl
u cdkr 8	6S72	21U1J	2SUJ2	1aUaS	2SU62	- U1J	DDe
NEnl DEnpm	- 172	1J4aUJS	1641Ua2	1J11U4S	1J60U61	4U2	DDe
NnTwl cmb	- a72	- J1- UJ	- 4aSU22	- 410UaS	- 40- U2	1U4-	DDe
CEnocmb	1S- 71				1S		G
CEnocmb	1S- 72				1S6		G
l dw5ocmb	4J71				1Sa		G
l dw5ocmb	4J72				1S2		G
l r 8 5cmb	271	1US1	SU-	SUJ6	SUJS	2 U1S	DDe
l r 8 5cmb	0072	41UJa	4SUSS	64U0S	4 U06	2 UJJ	DDe
l r 8 5cmb	0 72	6USJ	aU6J	aU12	U20	2- U4	DDe
l 8dn5	2 71	21SU1	2SaUa4	21- U04	211U2a	1US1	DDe
l 8gr p	1S071	SU0J	SU6a	SU06	SU04	JUS	DDe
l 8gr p	1Sa71	SU0-	SU02	SU02	SU02	SU1	DDe
l nocmb	2- 72	2- 2UJ2	2- 0U6J	241U61	2- 0U1a	1Ua6	DDe
l Tpm5Tcmb	671	6- UJS	64UJa	6JUa0	64UJJ	2US	DDe
l Tpm5Tcmb	71	64U6S	64USa	64UaS	64UJ-	SU6-	DDe
l m8mp	- 471	72Sa- U01	72- 6- UJ0	72S- U12	7216JU1-		DDe
Ar pecmb	1Ja71				1Sa		G
Ar pecmb	1Ja72				1S0		G
AEw8cmb	2S- 71	SUJ-	SUJ4	SUJJ	SUJ4	- U60	DDe
AEw8cmb	2SJ71	SUJ4	SUJJ	SUJ	SUJ6	JUJ-	DDe
Ac5	11 71	- UJS	- UJ	- UJ	- UJJ	1UJ6	DDe
AcTw5cmb	4071	121USS	116UJ-	12SUJS	11aU44	2U12	DDe
Rpw5cmb	2- 71	2USS2	2USJ	2US6	2USS4	1U22	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9Ja	&wTwFd8 :u wb r :9	S42q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J172	4- U1	42Ua2	4- U46	4- U1	SU62	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	a71				11-		G
YTTpcmb	a72				11J		G
Zc5d	6672	24 U0S	240U6a	24aUSJ	24 U4	SU2	DDe
Zqpdn5cmb	aS71	1UJ0	1U S	1U0J	1U01	0U12	DDe
Zqpdn5cmb	a171	1U0S	1U6S	1U0J	1U6	4UJa	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1- 660UJ1	1- 6 2U-6	1- 0J1U42	1- 01- UJ6	SU44	DDe
q5Tb n5%	12171	SU-1	SU-1	SU-6	SU-	JUSS	DDe
qpl r 5cd	0a72	12U14	12U11	11UaS	11U2	- US4	DDe
Bwpcmb	1- a71	- 21U0	- 2SU12	- 20UaS	- 2- U2S	1U1	DDe
Bwpcmb	1- 071	- 1JU2J	- 2- U2-	- 2aU-6	- 22U2	1U1-	DDe
Br p%8cmb	71	1UJ	2USa	1U J	1U0	4U14	DDe
Bdl b mTE	2S 71				1SJ		G
Bdl b mTE	2S 72				1S4		G
Bpmb d5r	J171						dDl
v wob cmb	1SJ71	1UaS	SU4	1US6	1U10	2aU4S	DDe
v wob cmb	1S671	7SU26	72U21	71U0-	71U4S		DDe
v wob cmb	11171	1US1	SUJJ	1USS	SU6	0Ua2	DDe
v w8dcmb	4- 71	144SaUa-	1461 U20	14641U0	14aaaUa	SUS	DDe
v w8dcmb	4471	14 62U44	1a1- 0U41	14 a0U10	1aS1 US1	SU6J	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- a71						dDl
v E8hpd5r	- a72						dDl
v Epmb cmb	a272	1aU40	14UJ	1aUJ6	1aU41	- U10	DDe
v new8T	a 72	U44	JU-	U62	U-	- UJS	DDe
v nDDr p	6- 72	2- U40	2- UaJ	2- U61	2- Uaa	SU-	DDe
&%Dpnl cmb	1a671						dDl
&%Dpnl cmb	1a672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16a71				1SJ		G
h n8b cmb	16a72				1S-		G
t5ocmb	11a71				1S6		G
t5ocmb	11a72				1SS		G
tpn5	a472	21 a U1a	2146 UJ2	221J6Uaa	21J01UJ4	1U60	DDe
tpn5	a672	21424U00	21Sa0UJJ	21024U0	214S2Ua4	1Ua6	DDe
tpn5	a072	1 11U2J	2S14 US0	2S- 04U6S	2S144UJ	1U1a	DDe
Kp%DTn5	J- 71						dDl
Lr wo	2S671	a U41	aJU-	aJU-S	aJU0S	1USa	DDe

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Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S071	a6U0	a4U2-	a6U2J	aaU00	2U4-	DDe
Lr wo	2SJ71	a0U -	a6U2	a0UJ-	a0U6	1Ua0	DDe
LdEomb	671						G
y wW5r l omb	2472	4aS2USJ	4aS6U21	4aa4U0S	4a21USS	SU6a	DDe
y w5Mw5r l r	aa72	J4- U4	J4SU4-	JaSU a	J4aU11	SU6-	DDe
y n8%eor 5mb	471	0US-	0U42	0UJ J	0U2J	2U a	DDe
y n8%eor 5mb	a71	SUJS	SUJ1	SUJ-	SUJ2	1UJ6	DDe
y n8%eor 5mb	671	1Ua1	1Ua2	1UaJ	1Ua-	2UJ1	DDe
y n8%eor 5mb	071	SU00	SU S	1US1	SUJ	1- UJ0	DDe
y n8%eor 5mb	J71	SUJ1	SUJ2	SUJ1	SUJ1	SUa6	DDe
u r no%b omb	1aS71						dDl
u r no%b omb	1aS72						dDl
u cdkr 8	6S72	1aUJ1	1aU4-	14UJ	1aUSa	- U0J	DDe
NEnl DEnpm	- 172	1421UJa	16S6U6	1614U6a	1a40Ua6	0USS0	DDe
NnTwl omb	- 72	4142UJJ	41a2UJ-	422SUJS	4102USS1	1USS2	DDe
CEnoomb	1S- 71				1S0		G
CEnoomb	1S- 72				1S-		G
l dw5oomb	4a71				1S6		G
l dw5oomb	4a72				J		G
l r 8 5omb	J271	1USS	1Ua4	SU00	1U1S	- aUaa	DDe
l r 8 5omb	0072	4 U40	a2UJ6	4SU22	40UJa	1- U4S	DDe
l r 8 5omb	0J72	11UJ	1SU1-	U01	1SUaJ	1SU a	DDe
l c8dn5	2J71	246U40	2aSUJ6	24JUa-	24JU4a	SU0J	DDe
l c8gr p	1S071	SU26	SU22	SU24	SU24	JUaS	DDe
l c8gr p	1S 71	SU26	SU22	SU2a	SU24	0UJ-	DDe
l noomb	2- 72	11SUJS	1SaUJJ	11SUaJ	1SJU2	2U42	DDe
l Tpn5Tomb	J671	UJ	1S1UJ1	1SSU12	1SSU44	SU06	DDe
l Tpn5Tomb	JJ71	1SaU1S	1S4UJ	1S- UJ	1S4U66	SU64	DDe
l m8mp	- 471	71J2 UaS	716S6U04	710J6U10	7104SUJS		DDe
Ar peomb	1a 71				1SJ		G
Ar peomb	1a 72				1S-		G
AEw8omb	2S- 71	SU2J	SU2J	SUJ2	SU2	0USJ	DDe
AEw8omb	2Sa71	SUJ1	SU20	SUJS	SU2	6U1a	DDe
Ac5	11J71	1U4a	1U44	1UJ	1U4-	2UJ	DDe
AcTw5omb	4071	14SUSS	141U S	141UJ0	141U26	SU00	DDe
Rpw5omb	2- J71	2U2S	2U1a	2U22	2U1	1U6	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	a172	- a00	- 4la0	- 6U20	- ala4	2U46	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	J 71				11-		G
YTTpcmb	J 72				111		G
Zc5d	6672	14aUS6	14 U1S	14 USS2	140U0-	1Ua6	DDe
Zqpdn5cmb	S71	- U0-	- UJS	- UJ4	- U0	1UaS	DDe
Zqpdn5cmb	171	- U6-	- Ua	- UJS	- UJS	4U2a	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	096hF42	096SF-6	60- SFS8	0286F62	6F61	I I b
c n&Amon%	12171	SF4S	SF4-	SF42	SF42	- F86	I I b
c rsenAq	0972	11F2h	12F06	1SF0-	11F6S	hFS4	I I b
BarAum	1- 971	169F8S	164F11	16hF44	166F49	1F64	I I b
BarAum	1- 071	160F-4	164F0-	10SFS-	160F-0	1F98	I I b
Ber%lAum	h71	1FS0	1F19	1FSh	1F1S	- F48	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				112		G
BromAne	8171						ql s
RaOmAum	1S871	SFh-	SF90	SF6-	SF01	20F28	I I b
RaOmAum	1S671	72FS8	7- Fh2	7- F2-	7- FS8		I I b
RaOmAum	11171	SF90	SF9-	SF96	SF99	- F6h	I I b
RalqAum	4- 71	4821FS2	4861F44	48h0F21	489hF8h	SF08	I I b
RalqAum	4471	4hhSF2-	9129F6h	9S26F1S	9S40F-4	1F-h	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 971						ql s
REIorAne	- 972						ql s
REromAum	9272	10F22	10F16	19F2-	16F94	6F89	I I b
Robal&	9h72	6F68	6F6h	9Fh-	6F4-	6F06	I I b
RoI I er	6- 72	1- Fh6	14F4-	1- FS6	1- F82	9FS9	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				11S		G
DnOAum	11971				1S8		G
DnOAum	11972				1S6		G
Don	9472	14S92FhS	14S1- F-2	12912F1S	1- 926F11	6F4h	I I b
Don	9672	144- SF20	140S2F12	1- - 99F01	14162F0S	9FS-	I I b
Don	9072	1- 8S4F46	1- 818F6h	12- 04F81	1- - - 2F69	6F22	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	49F16	46F90	49F8S	49F84	1F94	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4- F89	44F5-	44F2S	44F52	SF4S	l l b
LeaO	2S871	44F49	49F4h	44Fh0	44Fh0	1F16	l l b
LA&EAum	671				h6		G
MagnesAum	2472	1h12F4h	1h26F86	1014F6h	1891F- 9	6F4S	l l b
Manganese	9972	401FhS	40- F98	421F88	499F08	6F44	l l b
Mol%bOenum	h471	- F89	4F12	4F22	4F56	4F0-	l l b
Mol%bOenum	h971	1F59	1F54	1F10	1F58	6F89	l l b
Mol%bOenum	h671	1F- -	1F44	1F42	1F4S	4F41	l l b
Mol%bOenum	h071	1F19	1F1-	1F50	1F11	- F62	l l b
Mol%bOenum	h871	1F29	1F12	1F26	1F21	6F42	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	12F- 6	12F44	1SF89	11F88	0F94	l l b
PEosI Eorus	- 172	980F- 6	984F91	486Fh8	992Fh9	1SF- 4	l l b
Po&assAum	- h72	189- F02	1848F04	16S4F10	1068F88	8F50	l l b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S8		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S4		G
pelenAum	8271	SFh4	SF- 1	SF92	SF9h	9- F68	l l b
pelenAum	0072	- 0F40	- 9F66	- hF2S	- 0F44	4F02	l l b
pelenAum	0872	9F8-	6Fhh	4F- S	9F01	2- F62	l l b
pAAqon	2871	11hF16	11hF49	12SF14	11hF98	SF42	l l b
pAver	1S071	SF1h	SF10	SF21	SF1h	1SF- 2	l l b
pAver	1Sh71	SF1h	SF2S	SF22	SF2S	6F14	l l b
poOAum	2- 72	8hF2h	h9F- 2	06F00	80F1-	1SF86	l l b
p&ona&um	8671	4SF02	42F80	42F42	42F5S	2F0S	l l b
p&ona&um	8871	41F4-	42F9-	42F64	42F2S	1F98	l l b
pulfur	- 471	72964F6-	72401Fh2	72- 09F6h	7240SF09		l l b
i erbAum	19h71				1S6		G
i erbAum	19h72				1Sh		G
i EallAum	2S- 71	SF1h	SF22	SF21	SF21	6F2h	l l b
i EallAum	2S971	SF2S	SF2S	SF21	SF21	2F48	l l b
i An	11871	2F9S	2F46	2F9-	2F9S	1F4h	l l b
i A&anAum	4071	h8F26	1S1F2S	1S- F- 4	1SSFh-	2F9-	l l b
UranAum	2- 871	1F42	1F40	1F4S	1F4-	2F94	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	26F6-	20F- 1	24F21	26FS9	6F29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				112		G
Y&&Aum	8h72				116		G
ZAnq	6672	60F49	0SF96	62F48	66FB-	6F1S	l l b
ZAqonAum	hS71	1F0-	1F08	1FB6	1F0h	- F62	l l b
ZAqonAum	h171	1F66	1FB1	1F66	1F01	4Fn-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	19194F96	1426hF10	141h0F00	1494SF9S	- F60	I I b
cn&Amon%	12171	SF46	SF91	SF40	SF48	9F0h	I I b
crsenAq	0972	11F48	11F12	1SF86	11F19	2F0h	I I b
BarAum	1- 971	- S- F4S	2h0F80	2h8Fh1	- SSFS6	SFh8	I I b
BarAum	1- 071	- S2F62	- S1F11	- S4F00	- S2F8-	SF61	I I b
Ber%lAum	h71	2F1-	2F12	2F1-	2F1-	SF26	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F48	1F92	1Fh4	1F69	19F1h	I I b
RaOmAum	1S671	SF6S	7SFS9	7SF91	SFS1	922- FSS	I I b
RaOmAum	11171	1F- 9	1F41	1F- -	1F- 6	- F28	I I b
RalqAum	4- 71	88h6F68	88- 0F61	h1- 1F4h	8h99F26	1F04	I I b
RalqAum	4471	h22- F4S	h14hF21	h694F4S	h- 42F- 4	2Fh2	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	18F2-	10Fh2	10FS2	10F02	- F96	I I b
Robal&	9h72	12F6S	11F84	11F02	12FS6	- Fh4	I I b
Rol I er	6- 72	28F98	20F9-	20F- 8	20F8-	2F- 4	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S9		G
DnOAum	11971				1S6		G
DnOAum	11972				1S2		G
Don	9472	- 4h96F19	- - 0h2F64	- - 119Fh1	- - h94FhS	2F04	I I b
Don	9672	- 9129FhS	- - - SSF18	- 282SF1-	- - 048F04	- F6S	I I b
Don	9072	- 2h89FhS	- 1109F- 4	- 11ShF60	- 1096Fh0	- F- 9	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	6- FSS	61F6h	64F90	6- FSh	2F2h	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	9hF80	98F0h	61F-9	6SFSS	2F14	l l b
LeaO	2S871	61Fh6	6SF6S	62F00	61F08	1F00	l l b
LA&EAum	671				hh		G
MagnesAum	2472	496SF86	4420F9S	44S0FS1	4469F12	1F80	l l b
Manganese	9972	h8hFS1	h9SFh9	h-4Fhh	h98F-1	2FhS	l l b
Mol%bOenum	h471	0F-6	0F-6	0F2h	0F-4	SF9S	l l b
Mol%bOenum	h971	1F8h	2FSS	1Fh1	1Fh4	-FSS	l l b
Mol%bOenum	h671	2F98	2F96	2F40	2F94	2F9S	l l b
Mol%bOenum	h071	1F89	2F12	2F14	2FS4	0Fh0	l l b
Mol%bOenum	h871	1Fh-	2FSS	2FS9	1Fhh	-FS9	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	-6F01	-4F14	- -F0S	-4F89	4F60	l l b
PEosI Eorus	-172	1696F8-	1496F-S	1900F06	196-F6-	6F46	l l b
Po&assAum	-h72	6128F90	909SF06	90-0F68	9802F-4	-F08	l l b
5 EoOAum	1S-71				1S0		G
5 EoOAum	1S-72				1S4		G
pqanOAum	4971				1S0		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F-4	1F4h	1F0S	1F91	12FS8	l l b
pelenAum	0072	90F18	91F1-	6SF86	96F-h	8F02	l l b
pelenAum	0872	1-F09	1SF-9	hF86	11F-2	18F01	l l b
pAAqon	2871	180F60	186F94	1h4Fh6	18hF02	2F41	l l b
pAver	1S071	SF22	SF24	SF26	SF24	1SF2-	l l b
pAver	1Sh71	SF2-	SF20	SF20	SF26	8FS1	l l b
poOAum	2-72	11SF6-	1S4F-9	1S9F0-	1S6FhS	-FSh	l l b
p&ona&um	8671	91F2-	48F6h	9SF00	9SF2-	2F6h	l l b
p&ona&um	8871	9SF4h	48F6h	9SF01	4hFh0	2F21	l l b
pulfur	-471	72S81F29	72-40F4S	72S1-F86	72140F91		l l b
i erbAum	19h71				1S8		G
i erbAum	19h72				1S-		G
i EallAum	2S-71	SF42	SF-8	SF48	SF42	12FS1	l l b
i EallAum	2S971	SF4-	SF41	SF-h	SF41	4F42	l l b
i An	11871	2FS4	2FS1	2F12	2FS9	2F68	l l b
i A&anAum	4071	-16F0S	-10F-	-18F44	-10F4h	SF28	l l b
UranAum	2-871	2F46	2F46	2F9S	2F40	SFh2	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	42F29	4SF42	- hF02	4SF8S	- F21	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				110		G
Y&&Aum	8h72				110		G
ZAnq	6672	216F28	2S0FS-	2S4F6-	2ShF- 2	2Fh4	l l b
ZAqonAum	hS71	- F2-	- F26	- F- 0	- F2h	2F28	l l b
ZAqonAum	h171	- F2h	- FS-	- F- 1	- F21	4F86	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	18- 11Fh8	1844- F4h	18281F21	18- 49F96	SF40	I I b
c n&Amon%	12171	SF- 1	SF- 2	SF- 9	SF- -	6F12	I I b
c rsenAq	0972	12FS6	11F40	11F04	11F06	2F4h	I I b
BarAum	1- 971	- 04FS1	- 61F- -	- 68F14	- 60FB-	1F0-	I I b
BarAum	1- 071	- 6hF22	- 64F00	- 68Fh8	- 60F66	SF68	I I b
Ber%lAum	h71	2F09	2F01	2F01	2F02	1FSS	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F2S	1F- S	1F68	1F- h	18F2-	I I b
RaOmAum	1S671	7SFS4	SF4h	71FS4	7SF1h		I I b
RaOmAum	11171	1F21	1F19	1F1h	1F18	2F- 9	I I b
RalqAum	4- 71	11SS6FS-	1S000F28	1S08SF- S	1S894F9-	1F21	I I b
RalqAum	4471	11498F6-	11- 1SF66	11- 49F11	11- 01F40	SF68	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	26F19	26F21	26F10	26F18	SF11	I I b
Robal&	9h72	19FS2	14FB8	19F14	19FS1	SFB4	I I b
RoI I er	6- 72	28FBh	28Fh2	2hF46	2hFSh	1F1S	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S0		G
DnOAum	11971				1S8		G
DnOAum	11972				1S2		G
Don	9472	42h8hF48	4- 9- 4F4-	4- 124F06	4- 216F22	SF66	I I b
Don	9672	42h62F4-	42288F14	42982FS8	4261SFB8	SF0h	I I b
Don	9072	4- 0h4FB2	44122F0-	4- 400Fh6	4- 0h8F9S	SF04	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	90Fh8	98F14	90F6S	90Fh1	SF40	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	96F28	96F9h	99F2S	96FS-	1F- S	I I b
LeaO	2S871	98F18	90F04	90F16	90F6h	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	9- 14F88	929hF44	9290F82	9200F- 8	SF62	I I b
Manganese	9972	1260F26	1262F80	120hF16	126hF06	SF66	I I b
Mol%bOenum	h471	9F00	9F0h	9F90	9F01	2FSh	I I b
Mol%bOenum	h971	2F- 6	2F2S	2F22	2F26	- F81	I I b
Mol%bOenum	h671	2F64	2F92	2F94	2F90	2F4h	I I b
Mol%bOenum	h071	2F1h	2F- S	2F22	2F24	2F46	I I b
Mol%bOenum	h871	2F- -	2F4-	2F22	2F- -	4F94	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- SFh4	- SFS6	2hF88	- SF- S	1F88	I I b
PEosI Eorus	- 172	1441FS6	1929F44	1- - 8F88	14- 9F1-	6F91	I I b
Po&assAum	- h72	626- F2S	6102F90	61S1FS4	6108Fh-	1F- 2	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S8		G
pqanOAum	4972				1S1		G
pelenAum	8271	1F06	1F- -	1F18	1F4-	21F2h	I I b
pelenAum	0072	0- FSh	06F- 6	61F94	0SF- -	11FS0	I I b
pelenAum	0872	19Fh9	14F41	16F0-	19F0S	0F9-	I I b
pAAqon	2871	240F99	248FS8	244F4-	246F6h	SF8S	I I b
pAver	1S071	SF24	SF22	SF2S	SF22	8FS1	I I b
pAver	1Sh71	SF28	SF2S	SF26	SF29	10F28	I I b
poOAum	2- 72	122F6-	12- F28	12SF62	122F18	1F1-	I I b
p&ona&um	8671	61F88	61F28	90F62	6SF26	- F8-	I I b
p&ona&um	8871	6SF06	6SF- h	98F- -	9hF8-	2F1h	I I b
pulfur	- 471	72618F22	72862F29	7204- FS1	72041F16		I I b
i erbAum	19h71				11S		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF9S	SF99	SF4h	SF91	9F90	I I b
i EallAum	2S971	SF40	SF40	SF91	SF48	4F89	I I b
i An	11871	- F- 4	- F12	- F41	- F2h	4F99	I I b
i A&anAum	4071	200F- 4	206F0h	20hFh6	208FS-	SF61	I I b
UranAum	2- 871	2F84	2Fh0	- FS1	2Fh4	2Fh8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	9SF2S	4hF08	4hF9h	4hF86	SF62	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				121		G
Y&&Aum	8h72				12S		G
ZAnq	6672	2S8Fh6	211FSh	211F-4	21SF40	SF62	l l b
ZAqonAum	hS71	2F2h	2F20	2F21	2F26	1F86	l l b
ZAqonAum	h171	2F- -	2F24	2F14	2F24	4F2-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	2S909F16	1h620F90	2SS98F11	2SS86Fh9	2F- 6	l l b
cn&Amon%	12171	2F29	2F- 1	2F1h	2F29	2F98	l l b
crsenAq	0972	46FS6	46FSS	44F92	49F9-	1Fh2	l l b
BarAum	1- 971	6- 4F2-	616FhS	614F61	621Fh1	1F02	l l b
BarAum	1- 071	6- 4F- 6	622F81	62- F96	626Fh1	1FS-	l l b
Ber%lAum	h71	- F21	- FSS	- F21	- F14	- F09	l l b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	- F66	- F44	- F92	- F94	- F10	l l b
RaOmAum	1S671	- F81	1F80	71FS6	1F94	19hF10	l l b
RaOmAum	11171	- F- S	- F91	- F- -	- F- 8	- F- 4	l l b
RalqAum	4- 71	41S48F- 1	41912F88	4S44- F- 4	41SS1F91	1F- 1	l l b
RalqAum	4471	42996FhS	42h84F44	418h6F61	4240hF- 2	1F2h	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	- - F82	- 2Fhh	- - FSh	- - F- S	1F- 6	l l b
Robal&	9h72	12F6-	11FhS	12F- h	12F- 1	- FS-	l l b
Rol l er	6- 72	h9F99	hSFh0	h4FSS	h- F9S	2F4h	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S6		G
DnOAum	11971				1S0		G
DnOAum	11972				1S-		G
Don	9472	- 6206F96	- 499- F09	- 99- - F91	- 9494F6S	2F44	l l b
Don	9672	- 6299F62	- - 04SF8-	- 6- 99FS4	- 949SF9S	4F18	l l b
Don	9072	- - 648F12	- 2406FS0	- - - 29F04	- - 14hFh0	1F8-	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	9h1F8-	9h- F64	909Fh0	980F19	1F66	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	969Fh1	968F6h	999F6-	96- F41	1F22	l l b
LeaO	2S871	969F1h	90- F80	99hF40	966F18	1F28	l l b
LA&EAum	671				h6		G
MagnesAum	2472	0886F28	0910F69	0696F91	0686F81	2F42	l l b
Manganese	9972	1222F49	110- F98	11h4F84	11h6Fh6	2FS9	l l b
Mol%bOenum	h471	hF2S	hF42	hF= 0	hF= -	1F24	l l b
Mol%bOenum	h971	- F28	- F1-	- F= 1	- F24	2Fh6	l l b
Mol%bOenum	h671	- F80	- F02	- F82	- F8S	2FS-	l l b
Mol%bOenum	h071	- F29	- FS4	- FS8	- F12	- F90	l l b
Mol%bOenum	h871	- F29	- F2-	- F= 4	- F20	1F8h	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	20F02	29F0h	26F90	26F6h	- F69	l l b
PEosI Eorus	- 172	208- F91	2011F6-	20h4FS4	206- FS6	1F62	l l b
Po&assAum	- h72	96hhF6S	9412FS1	966hFS8	99h- F96	2F82	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S6		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F96	1F44	1F84	1F62	12F08	l l b
pelenAum	0072	- hF8-	- 0F92	- 8F19	- 8F9S	- F11	l l b
pelenAum	0872	8F9h	8F41	8F08	8F9h	2F11	l l b
pAAqon	2871	2- 2F= 0	2- SF04	226F= 6	22hF82	1F= 9	l l b
pAver	1S071	1F12	1F11	1F1S	1F11	SFh4	l l b
pAver	1Sh71	1F11	1F18	1F1S	1F1-	- Fh2	l l b
poOAum	2- 72	990F= S	942F46	998F18	992F69	1F6S	l l b
p&onA&um	8671	- S9F16	- SSF1h	- S1FS9	- S2F1-	SF88	l l b
p&onA&um	8871	- S9F26	- S6F84	- 11F90	- S0F8h	1FS0	l l b
pulfur	- 471	7606F= 0	7- 46F24	76- 0F= 4	799- F= 2		l l b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF= 0	SF= 9	SF= -	SF= 9	6F0-	l l b
i EallAum	2S971	SF= -	SF= -	SF= 1	SF= 2	2F00	l l b
i An	11871	12F6-	12F61	1- FS2	12F09	1F81	l l b
i A&anAum	4071	416FS8	42- FS8	4ShFS1	416FS6	1F6h	l l b
UranAum	2- 871	2F= 0	2F94	2F40	2F46	- F92	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	6- F29	6SF96	61F2S	61F60	2F28	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				114		G
Y&&Aum	8h72				11-		G
ZAnq	6672	1SS1F08	h6SF69	h6hFS4	h00F16	2F22	l l b
ZAqonAum	hS71	- F06	- F98	- F04	- F6h	2F60	l l b
ZAqonAum	h171	- F84	- F89	- F9S	- F0-	9F- 8	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pt 5Tl sb DPP t&:	y h SF2N	&dPmTm5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdPP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	1JS49U26	1J1S1U24	1J2SJUN-	1J11NU00	SU44	DDe
q5Tb n5%	12171	SUJ1	SUNN	SUNS	SUN0	6UJN	DDe
qpwr 5cd	0972	46U62	49UNS	46U10	46U2S	SUNN	DDe
Bspcmb	1- 971	4JSU1S	4J1UJN	40JU64	4N0U24	1UJ6	DDe
Bspcmb	1- 071	4J- U60	4N0U29	406U0S	4N9UN0	1U06	DDe
Br p%PPmb	J71	2U94	2U41	2U4-	2U46	2U0S	DDe
Bcvb mTE	2SJ71				1S6		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U11	1UJS	1U92	1UN9	16U2S	DDe
v sob cmb	1S671	71U14	SUJN	7- US6	71U20		DDe
v sob cmb	11171	1UJ4	1UN0	1UN4	1UNN	2U6-	DDe
v sPdcmb	4- 71	269NSUN1	26S69U1N	26902USN	264S6US2	1U12	DDe
v sPdcmb	4471	20069U2S	26N00U2N	20SN6U96	2024- US1	1U0S	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- 971						dDw
v EPmpc5r	- 972						dDw
v Epmb cmb	9272	20U6-	20UJS	2NU26	20UJ-	1U1-	DDe
v nesPT	9J72	19UJ6	19U99	19U66	19U92	SUJJ	DDe
v nDDr p	6- 72	0SU0J	0SU96	01U9S	0SUJ9	SU6J	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1S0		G
h nPb cmb	16972				1S9		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1S2		G
tpn5	9472	41S16U22	4SJ60UJ6	42101UN1	41- N9U1-	1U69	DDe
tpn5	9672	4S2J9U9S	4S222UJ4	4144NU9S	4S699U49	1U6J	DDe
tpn5	9072	4S092US1	- N- S- U96	- JS- NUJ4	- J- 64U64	- U1J	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	2S2U0-	1J4U22	1J4U4-	1J0U1-	2U46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5Tl sb DP t&:	y h SF2N	&dPmTm5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	1J4USS	1N6U94	1JSU2-	1JSU29	1UJ6	DDe
Lr so	2SN71	2SJU9-	1JJU69	2S- U4J	2S4U22	2U44	DDe
LdEcmb	671				JN		G
y sM5r wcmb	2472	02J0UJ4	0- 10UJ	0- 1NU26	0- 11U2S	SU16	DDe
y s5Ms5r wr	9972	114SUJ-	11- 0U2J	119JU6S	1149UJ4	1US4	DDe
y nP%eor 5mb	J471	NUSS	NU12	0U01	0UJ4	2U64	DDe
y nP%eor 5mb	J971	- U11	- US-	2UJ6	- US-	2U42	DDe
y nP%eor 5mb	J671	- U4N	- U9N	- U9-	- U9-	1UJ4	DDe
y nP%eor 5mb	J071	2UN6	2UJ0	2UN9	2UNU	2U42	DDe
y nP%eor 5mb	JN71	2UNU	- US0	2U0N	2UJ1	4UJ0	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	- 6U10	- 6U64	- 0U2N	- 6U0S	1U92	DDe
8 EnwDEnpmw	- 172	101- U20	1NJ4US2	10N4U20	10J0U1J	9US0	DDe
8 nTswwcmb	- J72	9NS6UN2	9J4NUJN	9J- 0U04	9NJ0U64	1UJ4	DDe
CEnocmb	1S- 71				1S9		G
CEnocmb	1S- 72				1S-		G
l ds5ocmb	4971				1S0		G
l ds5ocmb	4972				1S1		G
l r P 5cmb	N271	2USN	1UJ6	1UJ4	1U9J	26U9N	DDe
l r P 5cmb	0072	- 0UJ6	9SU2J	44UJ1	44UJJ	1- UJ-	DDe
l r P 5cmb	0N72	1SUJN	NU69	1SUS1	JUNN	11UN9	DDe
l dcdn5	2N71	2- 9US-	2- SUJ-	2- JU9S	2- 4UJ9	1UJ9	DDe
l dgr p	1S071	SU66	SU01	SU02	SU0S	9US-	DDe
l dgr p	1SJ71	SU02	SU69	SU09	SU01	0UJ1	DDe
l nocmb	2- 72	2J- UN9	- S0UNS	- S9U10	- S2U20	2U49	DDe
l Tpm5Tcmb	N671	2S1U24	2S9U9N	1JJUJN	2S2U20	1U49	DDe
l Tpm5Tcmb	NN71	21SUJS	212U60	2SJUS1	21SUN6	SUN0	DDe
l mPmp	- 471	71964UJ0	71N1SUN6	714- 2US9	716S2U42		DDe
Ar pecmb	19J71				1SJ		G
Ar pecmb	19J72				1S9		G
AEs Pbmb	2S- 71	SU4N	SU4S	SU4S	SU4-	11UJ6	DDe
AEs Pbmb	2S971	SU44	SU41	SU4-	SU4-	- U2S	DDe
Ad5	11N71	NU2-	NU21	NU24	NU2-	SU16	DDe
Ad5 5cmb	4071	1- 9U92	12JU69	1- 4U60	1- - U2N	2UJN	DDe
Rps5cmb	2- N71	2U2S	2USJ	2U21	2U10	- U1S	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse I sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5TI sb DPP t&:	y h SF2N	&dPnTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	09U2J	00U4-	09U1J	09UJ0	1U66	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11-		G
YTTpomb	NJ72				114		G
Zd5d	6672	- 4NU1S	- 44U24	- 99USJ	- 4JU14	1U90	DDe
Zqpdn5omb	JS71	- USS	- U1S	2UJ1	- USS	- USN	DDe
Zqpdn5omb	J171	2UJ9	- U19	- U16	- USJ	- UNN	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ro&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAum	2072	10SSJUS5	1042 US4	10222U06	1021JU6-	1U21	l l b
cn&mon%	12171	SU42	SUJ	SUJ5	SU4S	U0J	l l b
crwenAq	0 72	1 UJ5	1 UJS	1 UJJ	1 U2	2US1	l l b
BsrAum	1- 71	- S U0J	- 11U21	- S- U20	- S6U0	1UJ2	l l b
BsrAum	1- 071	- S5UJS	- 12U52	- S2U	- SJU42	1U0-	l l b
Ber%RAum	571	2U11	2U11	2US1	2USJ	2U0J	l l b
BAumu&E	2S571				1S0		G
BAumu&E	2S572				1S4		G
BromAne	J171						ql w
v sOmAum	1SJ71	SU01	SU54	SU55	SUJJ	10U25	l l b
v sOmAum	1S671	72U25	2U0S	72UJ1	7SU6-		l l b
v sOmAum	11171	SU0	SUJ5	SUJS	SUJ1	5USS2	l l b
v sRqAum	4- 71	121- 6U5S	12- 6SU1J	12SJ5U0-	1215 U6S	1U1J	l l b
v sRqAum	4471	1255- U51	12021U2-	12651U4	12JS2U2-	1UJS	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAne	- 71						ql w
v ERrAne	- 72						ql w
v EromAum	272	1JU5-	15UJ-	15U64	15U40	2U4-	l l b
v obsR&	572	12U65	12UJ-	12UJ0	12U05	SU0-	l l b
v ol l er	6- 72	2JU5	- SUJ1	25U00	25U6J	2UJS	l l b
t %w l rowAum	1 671						ql w
t %w l rowAum	1 672						ql w
. rbAum	16471						ql w
. rbAum	16472						ql w
HsOoRAum	16S71						ql w
HsOoRAum	16S72						ql w
hoRmAum	16 71				1S5		G
hoRmAum	16 72				1S4		G
DnOAum	11 71				1SJ		G
DnOAum	11 72				1SS		G
Don	472	- 14- - U6	- - 1SJU4	- 2 0- U42	- 2- 01UJ4	2U64	l l b
Don	672	- 1JJ5USS6	- 26- 1U0S	- 2S6JUSJ	- 2156U2J	1U2S	l l b
Don	072	- S- 26U-	- S- SJU22	25512U65	- S1J2U4J	SU00	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	05U04	J- U41	JSU40	J1U21	2UJ5	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psmI Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psmI Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	06U14	JSU1S	00U0	0JUSS	2U	I I b
LesO	2SJ71	0JU42	J1USS	0JU05	05U41	1U06	I I b
LA&EAum	671				5J		G
y sMnewAum	2472	220US4	4JSU-	4JJUS6	- 5JU4J	2U0	I I b
y snMsnewe	72	656U5J	011U-	0S US	0S4U2	1US-	I I b
y oP%bOenum	5471	U1J	U2	U5	US	1U5J	I I b
y oP%bOenum	5 71	1U10	1U2J	1U15	1U21	4U60	I I b
y oP%bOenum	5671	1U6	1U6-	1U2	1U6S	4U16	I I b
y oP%bOenum	5071	1U20	1U1	1U24	1U22	US0	I I b
y oP%bOenum	5J71	1U2-	1U21	1U2J	1U24	- US6	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	26U50	2JUSJ	20U40	20US	2US1	I I b
8EowI Eoruw	- 172	5 1UJ4	J15USS	J0- U21	JJ1U	0UJ	I I b
8o&swwAum	- 572	4JJ- U02	45J U-	4562U1	454- U0J	1USJ	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S-		G
pqsnOAum	4 71				1S0		G
pqsnOAum	4 72				5J		G
pe&enAum	J271	SU55	SU	1US-	SUJ6	- 1U21	I I b
pe&enAum	0072	4 UJ0	1U1S	64U4J	- UJ2	10UJ-	I I b
pe&enAum	0J72	1SUJ2	1SU2S	11U22	1SU0	4U0	I I b
pAqon	2J71	10 U6S	1J- U5	1J2UJ-	1JSU60	2U44	I I b
pAger	1S071	SU	SU4	SU0	SU	2US	I I b
pAger	1S571	SU0	SUJ	SU4	SU6	- U66	I I b
poOAum	2- 72	54U55	1SSUS	1SSUJ	5JU6-	- U22	I I b
p&on&Aum	J671	52UJS	5- U6-	51U64	52U65	1USJ	I I b
p&on&Aum	JJ71	5 U46	54U4-	5JU66	56U1J	2U25	I I b
pu&ur	- 471	72- 40U2	721S4U50	72251UJ4	7224JU11		I I b
i erbAum	1 571				11S		G
i erbAum	1 572				1S-		G
i EsPAum	2S- 71	SUJ0	SUJ5	SU46	SU41	11U0-	I I b
i EsPAum	2S 71	SU4S	SU4S	SUJ0	SUJ5	UJ6	I I b
i An	11J71	2U1J	2U2	2USS	2U10	- U00	I I b
i A&snAum	4071	1 1U64	1 - U2J	1 4U2	1 - U1	SU54	I I b
RrsnAum	2- J71	1UJS	1UJ1	1U2-	1U2J	- UJS	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUD

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	U4	JUJ0	0U02	0UJ	2U54	I I b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				116		G
Y&&Aum	J572				111		G
ZAnq	6672	1 4U5-	1 5U1	1 0UJ5	1 0U44	1U4J	I I b
ZAqonAum	5S71	2U44	2U45	2US	2U4J	1U10	I I b
ZAqonAum	5171	2U0	2U4	2UJ1	2U40	U51	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20 2	9S92N.Sy	91491.07	91y12.01	912y0.91	1.70	DDe
qCTb 5Ch	121 1	4y7.S6	9S0.21	4y6.yN	4yy.SN	1.46	DDe
qpwr Ccd	09 2	922.7y	920.27	929.y1	929.10	S.4N	DDe
Bspcmb	179 1	246S.Ny	2406.yS	29S2.99	24NS.11	S.N9	DDe
Bspcmb	170 1	2429.y4	291N.16	2926.29	24yS.12	2.24	DDe
Br phPmb	y 1	4N0.S9	409.21	4y7.y9	4N9.4S	1.y9	DDe
Bcwb mT%	2Sy 1				y6		E
Bcwb mT%	2Sy 2				y7		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	9S1.24	4y9.60	4y0.7S	4yN.S0	S.9N	DDe
3 sob cmb	1S6 1	4N6.92	9S0.yN	4y1.9S	4y9.77	2.20	DDe
3 sob cmb	111 1	4y9.7y	9S1.04	9S1.1N	4yy.44	S.0S	DDe
3 sPlcmb	47 1	27NS71.46	27yS1y.y6	246y79.4S	24172N.y4	2.S2	DDe
3 sPlcmb	44 1	279909.2S	2709S7.N1	27y201.42	27049S.14	S.0N	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %P5pCr	79 1						dDw
3 %P5pCr	79 2						dDw
3 %p5b cmb	92 2	4N4.S2	4N0.69	4N6.S2	4N9.yS	S.70	DDe
3 5esPT	9y 2	4N0.47	4N4.04	4y1.S9	4N0.04	S.69	DDe
3 5DDr p	67 2	9791.06	91N7.40	9720.46	92N0.96	1.02	DDe
&hwDp5wcmb	196 1						dDw
&hwDp5wcmb	196 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PCcmb	16S 1						dDw
Hso5PCcmb	16S 2						dDw
K5Pb cmb	169 1				1S1		E
K5Pb cmb	169 2				1SS		E
tCocmb	119 1				y6		E
tCocmb	119 2				y2		E
tp5C	94 2	17S6S0.61	1294S2.91	126721.SN	120447.07	2.1N	DDe
tp5C	96 2	1266yS.4y	126SSN.S4	1266N0.22	126461.y1	S.71	DDe
tp5C	90 2	12y970.S9	126941.42	12091S.yN	120N67.19	1.2S	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	27y1.27	2979.67	2927.64	24N7.9S	7.27	DDe

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Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sT:i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sp sb r Tp	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0 1	27NN.0S	2941.17	2919.0y	24N1.N0	7.2y	DDe
Lr so	2SN 1	24S1.00	294S.61	291y.0y	24N0.7y	7.S1	DDe
LdP%mb	6 1				N6		E
MsgOr wmb	24 2	297NN2.y7	296269.79	29yNy4.22	2966NS.N7	1.1N	DDe
MsOgsOr wr	99 2	92Sy.90	9171.N1	91S7.1y	914N.1y	1.S0	DDe
M5Pheor Omb	y4 1	4y9N.20	4y07.NS	4y17.4y	4y4N.92	S.67	DDe
M5Pheor Omb	y9 1	4y2y.74	4y61.7N	4ySy.12	4y77.2N	S.97	DDe
M5Pheor Omb	y6 1	4y07.17	4y24.46	4NNS.N1	4y26.17	S.y4	DDe
M5Pheor Omb	y0 1	4N97.y0	4y29.S0	4NyN.4y	4Ny2.91	S.07	DDe
M5Pheor Omb	yN 1	4N4y.N4	9S27.40	9S66.24	4y0y.N9	2.7S	DDe
u r 5ohb omb	19S 1						dDw
u r 5ohb omb	19S 2						dDw
u dfr P	6S 2	9S4.22	4y6.NS	9S4.90	9S1.N0	S.N0	DDe
8 %5wD%5pmw	71 2	y622.07	1S2Ny.96	y02y.24	yNNS.91	7.67	DDe
8 5Tswwmb	7y 2	126y16.16	126710.9y	124722.4y	129N92.SN	1.SN	DDe
R%5omb	1S7 1				y2		E
R%5omb	1S7 2				y1		E
I dsOomb	49 1				y9		E
I dsOomb	49 2				y1		E
I rPOmb	N2 1	40y.y0	4N6.y4	400.76	4N1.42	1.S7	DDe
I rPOmb	00 2	9S6.N6	4y6.2y	94S.9N	914.9N	4.4y	DDe
I rPOmb	0N 2	910.0N	929.66	974.24	929.Ny	1.90	DDe
I dd5C	2N 1	9S9.71	9Sy.77	920.y0	914.2S	2.79	DDe
I dPr p	1S0 1	4N0.71	4N9.1S	4N2.1N	4N4.N6	S.97	DDe
I dPr p	1Sy 1	4y2.4N	4N2.N9	4yS.1S	4NN.4N	1.S7	DDe
I 5omb	27 2	29y414.N9	29N0y4.47	29y66N.1N	29y2y2.4y	S.10	DDe
I Tp5CTomb	N6 1	129S0.14	1296N.0N	121N2.19	1241y.76	1.60	DDe
I Tp5CTomb	NN 1	122N1.64	126Sy.N9	122S6.9S	12766.SS	1.07	DDe
I mPVp	74 1	y779.04	N009.29	y922.6N	y211.22	4.22	DDe
Ar pemb	19y 1				1S1		E
Ar pemb	19y 2				yy		E
A%sPmb	2S7 1	4Ny.N2	9S7.y6	911.yy	9S1.y2	2.24	DDe
A%sPmb	2S9 1	4y0.S6	9S0.4N	9S9.10	9S7.24	1.Sy	DDe
AdC	11N 1	4y2.4S	9S6.7S	4Ny.N6	4y6.1N	1.0N	DDe
AdsOomb	40 1	4y47.69	4yN7.6y	9S9S.yN	4yy2.00	1.Sy	DDe
UpsOomb	27N 1	4yS.74	9S2.62	9Sy.S6	9SS.6N	1.yS	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	91 2	91N.Sy	911.yS	922.49	910.4N	1.S2	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	Ny 1				y6		E
YTTpomb	Ny 2				y4		E
ZdCd	66 2	4yN6.67	4y76.6N	9S11.2N	4y0N.2S	S.06	DDe
Zqpd5Comb	yS 1	4y2.12	4N6.1N	4yy.y6	4y2.09	1.4S	DDe
Zqpd5Comb	y1 1	400.44	402.64	40y.N9	406.64	S.00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5&w
cRmA5Aum	2072	1.2J	- .0J	: .- 1	- .46	: J.06	l l b
c5&mn5y	12171	S.22	S.2J	S.- 1	S.20	1J.S1	l l b
crwe5Aq	0: 72	S.S-	S.Sh	S.SJ	S.S0	42.- h	l l b
BsrAum	1- : 71	S.2-	S.20	S.Sh	S.1h	4J.h0	l l b
BsrAum	1- 071	S.2-	S.2:	S.14	S.21	20.h6	l l b
BeryPAum	h71	S.11	S.11	S.S0	S.1S	24.S:	l l b
BAumu&%	2Sh71				1SS		E
BAumu&%	2Sh72				1SS		E
BrnmA5e	J171						ql w
3 sOmAum	1SJ71	S.1:	S.S-	S.1:	S.11	6: .0-	l l b
3 sOmAum	1S671	74.42	74.- 1	71.1h	7- .- 1		l l b
3 sOmAum	11171	S.S:	S.S6	S.S-	S.S:	- 1.61	l l b
3 sRqAum	4- 71	20.0h	- 6.26	11.2:	2: .1S	: S.66	l l b
3 sRqAum	4471	60.14	66.S:	4- .: 1	: J.hS	22.6:	l l b
3 srbn5	1271						ql w
3 srbn5	1272						ql w
3 %nrA5e	- : 71						ql w
3 %nrA5e	- : 72						ql w
3 %nmAum	: 272	S.S6	S.11	S.S6	S.SJ	- J.10	l l b
3 nbsR&	: h72	S.SS	S.S4	S.S4	S.S2	1SS.: 0	l l b
3 nl l er	6- 72	S.0-	S.h0	1.SS	S.hS	16.21	l l b
t ywl rnwAum	1: 671						ql w
t ywl rnwAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
GsOnP5Aum	16S71						ql w
GsOnP5Aum	16S72						ql w
HnPmAum	16: 71				1S1		E
HnPmAum	16: 72				1SS		E
D5OAum	11: 71				hh		E
D5OAum	11: 72				h6		E
Dn5	: 472	- .0S	h.S1	1S.SS	0.: 0	44.00	l l b
Dn5	: 672	- .J6	J.- h	1S.- -	0.: -	44.1-	l l b
Dn5	: 072	: .h-	J.24	1S.SJ	J.SJ	2: .01	l l b
Kryl &n5	J- 71						ql w
LesO	2S671	S.- J	S.- h	S.- 1	S.- 6	1S.h4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
LesO	2S071	S.42	S.4S	S.2:	S.- 6	2: .2S	I I b
LesO	2SJ71	S.- h	S.4S	S.- 1	S.- 0	1- .SJ	I I b
LA&%Aum	671				JJ		E
Msg5ewAum	2472	4.: J	1- .14	21.0S	1- .14	6: .16	I I b
Ms5gs5ewe	: : 72	S.1S	S.20	S.: :	S.- 1	0: .2J	I I b
MnPybOe5um	h471	S.h1	S.h-	S.06	S.J0	1S.6:	I I b
MnPybOe5um	h: 71	1.10	1.42	S.6h	1.1S	- - .61	I I b
MnPybOe5um	h671	1.S1	1.S1	S.6J	S.hS	21.: h	I I b
MnPybOe5um	h071	S.J0	S.J-	S.0-	S.J1	J.h1	I I b
MnPybOe5um	hJ71	S.h6	1.Sh	S.6:	S.hS	24.h:	I I b
NenOymAum	1: S71						ql w
NenOymAum	1: S72						ql w
NAqkeP	6S72	S.SS	S.S-	S.S4	S.S2	1SJ.6J	I I b
8 %nwl %nruw	- 172	76S.- 2	2.Jh	7- .S4	72S.16		I I b
8 n&swwAum	- h72	: J.1h	: J.J0	: 2.h1	: 6.66	: .06	I I b
R%nOAum	1S- 71				hJ		E
R%nOAum	1S- 72				hh		E
pqs5OAum	4: 71				h4		E
pqs5OAum	4: 72				h1		E
pere5Aum	J271	7S.- 1	7S.61	7S.S4	7S.- 2		I I b
pere5Aum	0072	7S.- J	7S.- J	7S.- J	7S.- J		I I b
pere5Aum	0J72	1.S4	S.JJ	S.24	S.02	: J.hh	I I b
pAqn5	2J71	S.60	S.4h	S.4S	S.: 2	2: .h-	I I b
pAer	1S071	S.S:	S.S4	S.S4	S.S4	16.- h	I I b
pAer	1Sh71	S.S:	S.S:	S.S4	S.S:	J.hJ	I I b
pnOAum	2- 72	1: 1.0J	16S.0:	1: 4.41	1: : .6:	2.h6	I I b
p&n5&Aum	J671	1.2J	1.- 1	S.6:	1.SJ	- 4.10	I I b
p&n5&Aum	JJ71	1.: 1	1.1S	S.6:	1.SJ	- h.00	I I b
pufur	- 471	0J.6:	7- S.h-	7124.: 2	72: .6S		I I b
i erbAum	1: h71				1SS		E
i erbAum	1: h72				hJ		E
i %sPAum	2S- 71	S.- 2	S.- 1	S.2-	S.2J	1J.2J	I I b
i %sPAum	2S: 71	S.2:	S.20	S.22	S.2:	1S.44	I I b
i A5	11J71	S.62	S.S6	S.S0	S.2:	12J.4:	I I b
i A&s5Aum	4071	S.h0	S.J4	S.- -	S.02	40.21	I I b
Urs5Aum	2- J71	S.S4	S.S0	S.S-	S.S:	- 6.Sh	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsqa&r 9	1
t s&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
Vs5sOAum	: 172	S.S2	S.S-	S.S0	S.S4	04.h0	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				hJ		E
Y&&Aum	Jh72				h6		E
ZA5q	6672	S.1J	S.- 1	S.: 6	S.- :	: : .JS	l l b
ZAqn5Aum	hS71	S.S6	S.S6	S.S-	S.S:	- - .- 0	l l b
ZAqn5Aum	h171	S.S2	S.S6	S.S-	S.S4	4J.06	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	2S0JhFJ-	2S1JJF64	2S42: FJ2	2S46JF1S	1F4J	l l b
cn&Amon%	12171	SF0h	SFhJ	SFJh	SFJh	1SF02	l l b
crwenAq	0: 72	1- F44	1- F60	1- F2h	1- F40	1F4-	l l b
BsrAum	1- : 71	- - 2FS6	- - 6F- h	- : : F2J	- 41F24	- F62	l l b
BsrAum	1- 071	- - 0F. 1	- - hF16	- : 0F0S	- 44F0h	- F2:	l l b
Ber%RAum	h71	2F. h	2F0-	2FJ1	2F01	4F1h	l l b
BAumu&E	2Sh71				1S-		G
BAumu&E	2Sh72				1SS		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFJS	SF0J	SF6h	SF06	0F12	l l b
RsOmAum	1S671	71F1h	72F41	7SFh-	71F. 1		l l b
RsOmAum	11171	SF40	SF4J	SF44	SF46	- FJ2	l l b
RsRqAum	4- 71	1J6- hF21	1h1- SFJ0	1hJJ: FJ6	1h21JF6:	- F20	l l b
RsRqAum	4471	1Jh24FhS	1h: SSF6-	2S: ShF41	1h644FhJ	4FSJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REROrAne	- : 71						ql w
REROrAne	- : 72						ql w
REromAum	: 272	26Fh0	26F2J	26F- h	26F. :	1F- h	l l b
RobsR&	: h72	14F46	1- F01	14F1J	14F11	2F6h	l l b
Rol l er	6- 72	26F41	2: F22	2: F. h	2: F04	2F- 0	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoRhAum	16S71						ql w
HsOoRhAum	16S72						ql w
y oRmAum	16: 71				1S:		G
y oRmAum	16: 72				1S1		G
DnOAum	11: 71				1S1		G
DnOAum	11: 72				h0		G
Don	: 472	- 6: - 0FJ4	- : S20F. 6	- : SJ1F2h	- : : 4JFhS	2F41	l l b
Don	: 672	- : 06: F6h	- 4: 01F. 2	- : 2h6Fhh	- : 211F4S	1F01	l l b
Don	: 072	- - 440Fh0	- 2020FS1	- 2h0hF. 6	- - S: 1F. 1	1F11	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	- : F1:	- 6F0S	- 0F22	- 6F- 6	2Fh6	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
LesO	2S071	- 2F0S	- - F. 1	- 4F- 4	- - F. 2	2F4:	I I b
LesO	2SJ71	- - F0J	- 4Fh-	- : FJ-	- 4FJ:	2Fh:	I I b
LAEAum	671				h2		G
MsgnewAum	2472	: 2h6F- 0	: SJSF46	: 16SF01	: 10hF1J	2F11	I I b
Msngsnewe	: : 72	60hF. 4	6: 2FJh	6: 2F- :	661F. h	2F- :	I I b
MoP%bOenum	h471	: F2S	: F- -	: FJ2	: F4:	6FS2	I I b
MoP%bOenum	h: 71	1F14	1FSh	1F24	1F16	6F- J	I I b
MoP%bOenum	h671	1F6J	1F60	1F0S	1F6J	SF0J	I I b
MoP%bOenum	h071	1FSh	1F- 2	1F22	1F21	hF- J	I I b
MoP%bOenum	hJ71	1F16	1F20	1F. 6	1F- -	1: F. h	I I b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	- - F1S	- 1F6J	- 2F2-	- 2F- 4	2F21	I I b
8EowI Eoruw	- 172	4hJF. J	: 0SF46	44hF- 4	: S6F1-	12FS4	I I b
8o&swwAum	- h72	442: FJ-	4- 4hF64	44S0FJ4	4- h4F44	SFh1	I I b
5EoOAum	1S- 71				hh		G
5EoOAum	1S- 72				hh		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h4		G
peRenAum	J271	SFJ6	1F22	1FS0	1FS:	10F10	I I b
peRenAum	0072	64F- S	61F16	64FS1	6- F16	2F0:	I I b
peRenAum	0J72	1: FS-	14F1h	12FS4	1- F0:	11F1J	I I b
pARqon	2J71	242F20	24JF11	2: : FS4	24JF40	2F. 0	I I b
pARer	1S071	SF10	SF1J	SF1J	SF1J	1F. -	I I b
pARer	1Sh71	SF24	SF10	SF2S	SF2S	1hF- J	I I b
poOAum	2- 72	2S1F. 6	10: FJ:	1JJFJ0	1JJF06	6FJ1	I I b
p&on&Aum	J671	0hF2-	J1F0h	J: F04	J2F2:	- Fhh	I I b
p&on&Aum	JJ71	0JFh6	J2F6:	J4Fh0	J2F2S	- F6h	I I b
pufFur	- 471	71S0JF24	71162F0S	7h- 6Fh-	71S: hF2h		I I b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S2		G
i EsFAum	2S- 71	SF6:	SF6J	SF6h	SF60	- F60	I I b
i EsFAum	2S: 71	SF6:	SF6J	SF6J	SF60	2F4h	I I b
i An	11J71	2FS4	2F1-	2F16	2F11	- FS-	I I b
i A&snAum	4071	1- SF. h	12JF12	1- - F04	1- SFJ2	2F1:	I I b
UrsnAum	2- J71	1F26	1F- 1	1F- h	1F- 2	4Fh6	I I b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9119 J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
VsnsOAum	: 172	64F4h	6- F16	6- F1S	6- F: J	1F24	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				111		G
Y&&Aum	Jh72				111		G
ZAnq	6672	11- FJ:	1ShF6h	112F- 1	111Fh:	1FJJ	l l b
ZAqonAum	hS71	2F4-	2F: 0	2F0S	2F: 0	: F- 2	l l b
ZAqonAum	h171	2F62	2F64	2F0-	2F60	2F20	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	JJhhFSJ	J061F1:	J611F24	J0: 0F16	1F64	l l b
cn&Amon%	12171	SF0-	SF0J	SFJ2	SF0J	: Fh1	l l b
crwenAq	0: 72	1SF2S	1SF24	1SF60	1SF- 0	2F. -	l l b
BsrAum	1- : 71	21: FJ6	22SF0J	21: F- S	210F- 1	1F- h	l l b
BsrAum	1- 071	21- F4-	22: F26	222FJ-	22SF. 1	2FJ-	l l b
Ber%BAum	h71	1F40	1F46	1F4J	1F40	SF66	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S2		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFhS	1F1S	1F41	1F14	22F. :	l l b
RsOmAum	1S671	71F. 0	7- F46	7SF41	71FJ1		l l b
RsOmAum	11171	1F- 4	1F26	1F20	1F2h	- F. 2	l l b
RsRqAum	4- 71	6: h1F60	60S4FS0	60JSF0-	66h2F16	1F42	l l b
RsRqAum	4471	6hh1FhS	0S4hFSS	0Sh- F0S	0S44FJ0	SF02	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REBrAne	- : 71						ql w
REBrAne	- : 72						ql w
REromAum	: 272	1- Fh:	1- F. 2	1- F6S	1- F6h	1F6:	l l b
RobsR&	: h72	6F0-	6FJJ	6FJ6	6FJ2	1F2S	l l b
Rol l er	6- 72	4SFSJ	- JF0h	- hFS1	- hF2h	1F0:	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oFmAum	16: 71				1S:		G
y oFmAum	16: 72				1S4		G
DnOAum	11: 71				1S2		G
DnOAum	11: 72				hh		G
Don	: 472	101SJFh0	16: 14F6J	16061Fhh	160h: F21	1F0J	l l b
Don	: 672	10J2- F04	100- JF60	10042Fh1	1006JF44	SF20	l l b
Don	: 072	16060F2:	164- 2FhS	16- 1: F40	16: S: F2S	1F42	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	12hF. S	12hF- h	1- 1F- h	1- SFSh	SFJ6	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
LesO	2S071	12- F- 2	120F21	12JF. h	126F- 0	2F16	l l b
LesO	2SJ71	120FS2	1- 4FS6	1- SFJ0	1- SF6:	2F0S	l l b
LAEAum	671				h4		G
MsgnewAum	2472	21J4F2S	211hFJh	211hF4-	2141F1J	1F04	l l b
Msngsnewe	: : 72	4: 1F61	44: FJ4	44: FhS	440F0J	SF04	l l b
MoP%bOenum	h471	4F. 0	4F06	4F4h	4F61	- FS6	l l b
MoP%bOenum	h: 71	1F2S	1F2:	1F- S	1F2:	- FJ0	l l b
MoP%bOenum	h671	1F. h	1F02	1F62	1F64	4F2:	l l b
MoP%bOenum	h071	1F2S	1F- 4	1F- 1	1F2J	: F42	l l b
MoP%bOenum	hJ71	1F21	1F20	1F22	1F2-	2F6-	l l b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	1SFh0	1SF4-	1SF- 1	1SF. 0	- F- 2	l l b
8 EowI Eoruw	- 172	1J60F26	2S1hFSh	1Jh: F00	1h20F- 0	4F1h	l l b
8 o&swwAum	- h72	- 622FS:	- 6S0F6J	- 622F- -	- 610F- 6	SF2-	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1SS		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h6		G
pe?enAum	J271	SF00	SF6h	SFh1	SF0h	14F2h	l l b
pe?enAum	0072	- 4F. 0	- 6F21	- 1F1S	- - Fh6	0F60	l l b
pe?enAum	0J72	: F00	6F- 6	0F6S	6F. J	14F10	l l b
pAqon	2J71	1J- F- 0	1J6F20	1J0F4:	1J: F0S	1F1-	l l b
pAer	1S071	SF. 0	SF. 4	SF. h	SF. 6	4F6h	l l b
pAer	1Sh71	SF. 0	SF64	SF6S	SF6S	: F- 2	l l b
poOAum	2- 72	1JSFh6	10SFh0	1JJF14	1JSFS2	4F0h	l l b
p&on&Aum	J671	JJF0:	h2Fh2	h2F44	h1F- 0	2F. S	l l b
p&on&Aum	JJ71	JhF41	h: Fh-	h: FJ2	h- F02	- FhJ	l l b
pufur	- 471	7J0- F24	7120hFJh	71S0hF20	71S00F40		l l b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S1		G
i EsPAum	2S- 71	SF- -	SF- -	SF- -	SF- -	SF. 1	l l b
i EsPAum	2S: 71	SF- 1	SF- 1	SF- 1	SF- 1	SF0-	l l b
i An	11J71	4F- 2	4F4S	4F62	4F44	- F4-	l l b
i A&snAum	4071	12hF- S	1- 4F26	1- 4F22	1- 2F. h	2F1:	l l b
UrsnAum	2- J71	2F26	2F1h	2F- 1	2F2:	2F6h	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
VsnsOAum	: 172	2JFh0	20F6h	20FJS	2JF1:	2F: 1	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				1S6		G
Y&&Aum	Jh72				1S2		G
ZAnq	6672	224FS0	21hF00	22SF1h	221F- 4	1FS0	l l b
ZAqonAum	hS71	1Fh:	2F10	1Fh:	2FS2	6F4:	l l b
ZAqonAum	h171	1Fh-	2FS-	2F1J	2FS:	6F21	l l b

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LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t AR&on:. sq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	9 00F-9	9h- hF09	9h- 1F-2	9h16F14	SF90	l l b
cn&mon%	12171	SF6S	SF9	SF66	SF61	6F41	l l b
crwenAq	0972	F20	F01	F4	F4h	2F61	l l b
BsrAum	1- 971	144F42	141FS	1- hF 6	141F0h	1F60	l l b
BsrAum	1- 071	146FSh	14SFS9	14SF49	142F2S	2F-0	l l b
Ber%BAum	h71	1F16	1F24	1F19	1F1	4F1h	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S4		G
BromAne	171						ql w
RsOmAum	1S 71	SF9S	SFh2	SF66	SF6h	- SF0	l l b
RsOmAum	1S671	SF0-	71F66	7- F2h	71F4S		l l b
RsOmAum	11171	SFh1	SFh2	SFh-	SFh2	SF 1	l l b
RsRqAum	4- 71	- 9hhF29	- 6S F42	- 990F1-	- 9 F20	SF06	l l b
RsRqAum	4471	- 9 1F6-	- 69SF-6	- 6S2F 1	- 611F6S	SFh0	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- 971						ql w
REPrAne	- 972						ql w
REromAum	9272	11F-4	11F16	11F49	11F-2	1F-S	l l b
RobsR&	9h72	9F 9	9F09	9F01	9F00	1F2-	l l b
RoI I er	6- 72	26F4-	26F- -	26F-9	26F-0	SF21	l l b
t %wI rowAum	19671						ql w
t %wI rowAum	19672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoPnAum	16S71						ql w
HsOoPnAum	16S72						ql w
y oPmAum	16971				1S4		G
y oPmAum	16972				1S-		G
DnOAum	11971				1S-		G
DnOAum	11972				1SS		G
Don	9472	122S2F6S	122S- F0S	12S92F-0	12192F h	SF02	l l b
Don	9672	12 14F6-	1- S- 9F9	1- SSSF60	12h9SF2h	SFh2	l l b
Don	9072	12S- 0F62	12S 9F-h	1212hF11	12S 4FS4	SF-	l l b
Kr%&on	- 71						ql w
LesO	2S671	00FS4	09F92	04F6	09F04	1F9	l l b

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LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	My S. - 2	t AR&on:. sq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
LesO	2S071	0- F9h	0- F19	02F10	02Fh0	SFhh	l l b
LesO	2S 71	09F49	04F62	0- F9	04F99	1F26	l l b
LAEAum	671				h9		G
MsgnewAum	2472	1- 19F22	1- 99F66	1- - 9F- -	1- - 9F4S	1F91	l l b
Msngsnewe	9972	441F4	446F9S	442F0S	44- F96	SF9h	l l b
MoP%bOenum	h471	- F- 4	- F- S	- F19	- F26	- FS-	l l b
MoP%bOenum	h971	1F1	1FS-	SFh6	1FS6	1SF6S	l l b
MoP%bOenum	h671	1F- 6	1F2	1F- 2	1F- 2	2F00	l l b
MoP%bOenum	h071	1F2S	1FSh	1F11	1F1-	9F10	l l b
MoP%bOenum	h 71	1F14	1FS9	1FS4	1FS0	4Fhh	l l b
NeoO%mAum	19S71						ql w
NeoO%mAum	19S72						ql w
NAqkeP	6S72	0F -	F29	FSS	FS-	2F66	l l b
8 EowI Eoruw	- 172	062F9h	h- 2F9h	h14F- 2	6hF -	1SF0-	l l b
8 o&swwAum	- h72	1h SF12	2S26F 4	2S2hF 1	2S12F26	1F- h	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqsnOAum	4971				1S1		G
pqsnOAum	4972				h0		G
pe?enAum	271	SF29	SF4h	SF- 2	SF- 6	- 4Fhh	l l b
pe?enAum	0072	- SFS9	- 4F1	- 4F 2	- - FS2	0F 6	l l b
pe?enAum	0 72	0F- S	6F41	9FhS	6F94	1SFhS	l l b
pAAqon	2 71	10 F26	1 1F40	106F12	10 F62	1F91	l l b
pA?er	1S071	SF- 0	SF- 2	SF- 9	SF- 9	0F0S	l l b
pA?er	1Sh71	SF- 1	SF26	SF- 2	SF- S	1SF41	l l b
poOAum	2- 72	194FhS	196FS-	199F 2	199F9h	SF- h	l l b
p&on&Aum	671	91F0S	91F21	9SF1h	91FS-	1F91	l l b
p&on&Aum	71	9SF1h	9SF- 9	4hFh2	9SF19	SF4-	l l b
pu?ur	- 471	71622F24	719h F4-	716h0F69	716- hF44		l l b
i erbAum	19h71				1S9		G
i erbAum	19h72				1S1		G
i EsPAum	2S- 71	SF26	SF2-	SF24	SF29	9F- 1	l l b
i EsPAum	2S971	SF29	SF24	SF24	SF29	2F96	l l b
i An	11 71	2F- -	2F- S	2F46	2F- 6	- F69	l l b
i A&snAum	4071	h Fh	h Fh1	h6F26	h FS9	1F9	l l b
UrsnAum	2- 71	1F6S	1F9	1F99	1F9	1F64	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t Ro&on:. sq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	9172	22F69	22F6h	22F91	22F62	SF41	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				1S6		G
Y&&Aum	h72				1S2		G
ZAnq	6672	1- - F4S	1- F12	1- 2Fhh	1- 4F -	2F11	l l b
ZAqonAum	hS71	1F- 2	1F- -	1F20	1F- 1	2F2-	l l b
ZAqonAum	h171	1F26	1F2	1F- 2	1F2h	2F00	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	11- - SU1-	1194 U9S	110N2U11	1199- U 1	1U 6	DDe
q5Tb n5%	12171	SUJ	SUJ 9	SU4-	SUJ	1SUNN	DDe
qpwr 5cd	0972	12US1	1SU06	11U04	11U9S	9U09	DDe
Bspcmb	1- 971	240USN	290U49	296U62	29- U01	2U20	DDe
Bspcmb	1- 071	249U69	292U0	290U49	291U 6	2UJ 6	DDe
Br p%PPmb	71	2U11	2U14	2U1-	2U1-	SUN9	DDe
Bcvb mTE	2S 71				1S		G
Bcvb mTE	2S 72				1S-		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	1US-	1US1	1US4	1US2	1UJ 4	DDe
v sob cmb	1S671	7SUS0	72U41	71UNN	71U49		DDe
v sob cmb	11171	SUN0	SU6	SUN-	SUNS	11U00	DDe
v sPdcmb	4- 71	1S 14U9-	11S SU9-	11292U2-	11SN9U00	1U92	DDe
v sPdcmb	4471	1140- U2N	119N2U4S	110 NUSN	11610U 2	1U42	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpd5r	- 971						dDw
v EPmpd5r	- 972						dDw
v Epmb cmb	9272	19US	19U1	16U19	19U4N	- U00	DDe
v nesPT	9 72	11UJ 2	1SUNS	11U4	11U2S	- U2S	DDe
v nDDr p	6- 72	- 1UNN	- 2UJ 2	- - U 6	- 2U02	- UJ 9	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1SN		G
h nPb cmb	16972				1S-		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1SS		G
tpn5	9472	291S0U14	29640UJN	2611SUNS	29621U00	1U 6	DDe
tpn5	9672	2922SUJ 4	24N40U1N	264S6U1N	294 1U24	- U1	DDe
tpn5	9072	2- 422UJ 9	2- S16U61	246- NU0-	2- 6 2U96	- U96	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	64U4S	64UN6	69US1	64U09	SU4	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	61UJ 1	61U1	61U64	61UJ N	SUJ N	DDe
Lr so	2SN71	6- U1N	62U91	6- U20	62U	SU66	DDe
LdEcmb	671				0		G
y sM5r wcmb	2472	91- 4US4	9199U9S	9- 24U 9	92S4UN-	2US1	DDe
y s5Ms5r wr	9972	00SU94	000UJ 4	N19U46	0N0U0N	- US0	DDe
y nP%eor 5mb	471	9U90	9U9	9U90	9U9N	SU1	DDe
y nP%eor 5mb	971	1U1S	1U2-	1U21	1U1N	9U 4	DDe
y nP%eor 5mb	671	1U91	1U6	1U60	1U62	9U -	DDe
y nP%eor 5mb	071	1UJ 4	1U1S	1U2N	1U24	1SUS	DDe
y nP%eor 5mb	N71	1U1	1U14	1U2S	1U1N	2U9-	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	1 U12	1NJ 9	1 U04	1 US0	- U64	DDe
8 EnwDEnpmw	- 172	1269UN9	120SU	12 1U1S	1209U N	1US9	DDe
8 nTswwcmb	- 72	- 6N1UJ 2	- 660U22	- 000U6	- 0SNU04	1U62	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
I ds5ocmb	4971				1S6		G
I ds5ocmb	4972				0		G
I r P 5cmb	N271	SU0	SUN	1U90	1USN	- U26	DDe
I r P 5cmb	0072	4NU12	- 1UN0	46U1N	42US6	21U1S	DDe
I r P 5cmb	0N72	0U9-	NUN	NUJ S	NU24	NU20	DDe
I dcdn5	2N71	10NUS1	10- U49	1N4US2	10NU4	2U 0	DDe
I dgr p	1S071	SU1N	SU22	SU22	SU21	1SU12	DDe
I dgr p	1S 71	SU2S	SU21	SU22	SU21	4U40	DDe
I nocmb	2- 72	10SU 6	102U91	106UJ	10- U2	1U62	DDe
I Tpm5Tcmb	N671	0U6N	1SSUS2	NU6N	NUNS	1U1	DDe
I Tpm5Tcmb	NN71	1S- U4-	1S- U49	1S9U9-	1S4U14	1U16	DDe
I mPmp	- 471	71NN9U 4	710- SU14	716 2UN4	7106 U64		DDe
Ar pecmb	19 71				1SN		G
Ar pecmb	19 72				1S-		G
AEsPPcmb	2S- 71	SUJ -	SUJ 2	SUJ N	SUJ 4	U21	DDe
AEsPPcmb	2S971	SUJ 6	SUJ 2	SUJ 9	SUJ 4	6US-	DDe
Ad5	11N71	- U1 -	- U26	- U24	- U21	2US0	DDe
AdS5cmb	4071	1US9	2U -	2UN-	2U20	1U19	DDe
Rps5cmb	2- N71	2U N	- US9	- US9	- US2	1UJ S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdP:u sb r :J	S90qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	- SUS6	2 UN9	- 1U6S	- SU91	- U1-	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				111		G
YTTpomb	N 72				1S6		G
Zd5d	6672	219U6	216U9	220U90	21 U9	- US1	DDe
Zqpdn5omb	S71	2U9N	2U64	2UN1	2U6N	4U26	DDe
Zqpdn5omb	171	2U69	2U9-	2U6	2U62	- U1	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RlAn&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	0hS2F24	0886FS-	0821F. 8	086hFh:	SF. 4	I I b
cn&Amon%	12171	SF04	SF8:	SF0h	SF0h	6F4:	I I b
crsenAq	0: 72	hFh4	hF0:	hF68	hF0h	1F- h	I I b
BarAum	1- : 71	266F- 2	260F60	260Fh4	260F- 1	SF- 2	I I b
BarAum	1- 071	201F02	20- F46	20SF81	202FSS	SF4h	I I b
Ber%lAum	h71	1F4:	1F- 2	1F4-	1F4S	: FS1	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	1F1-	1F10	SF8-	1FS4	18FS6	I I b
RaOmAum	1S671	71F8S	71F28	71F11	71F4S		I I b
RaOmAum	11171	SF. :	SF4h	SF. -	SF. 2	: F. :	I I b
RalqAum	4- 71	16: 0- F- S	1682hF26	10S0hF. -	16820F- 6	1F. S	I I b
RalqAum	4471	101S8F. -	104- 6F66	10012F82	1041hF- 4	1F04	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- : 71						ql s
RElorAne	- : 72						ql s
REromAum	: 272	- 4F- 0	- 4F0h	- 4Fh:	- 4F0S	SF88	I I b
Robal&	: h72	11F- :	11F44	11F18	11F- -	1F18	I I b
Rol I er	6- 72	- 1F08	- 1F1-	- 1F26	- 1F- h	1F1S	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S8		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S0		G
DnOAum	11: 72				1S-		G
Don	: 472	21- - 2F41	2121- F68	21S44F64	211h6Fh1	SF68	I I b
Don	: 672	2Sh14F22	2S04SF61	2S0- 6F82	2S0h0F22	SF4h	I I b
Don	: 072	1h: 26F. 4	1h181F02	1h482F. 6	1h- h6Fh4	SFh0	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	14SF1h	1- 8FS:	1- 4F. 1	1- 0F. 8	2FS8	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	12hF2S	128F. 0	124F86	120F. 4	1F84	I I b
LeaO	2S871	1- hF88	1- 0F- 8	1- 4F88	1- 0F- 8	1F82	I I b
LA&EAum	671				h0		G
MagnesAum	2472	- 812F26	- 0h4Fhh	- 8S: F1:	- 8S4F1-	SF2-	I I b
Manganese	: : 72	2Sh: Fh-	2S46Fh0	2S24F- 1	2S: : F0-	1F08	I I b
Mol%bOenum	h471	: F06	: F0-	: F04	: F0:	SF21	I I b
Mol%bOenum	h: 71	2F20	2FS-	2F2S	2F10	: F66	I I b
Mol%bOenum	h671	2F. 8	2F. 8	2F. 2	2F. 6	1F4:	I I b
Mol%bOenum	h071	2F16	2F1-	2F- S	2F2S	4F1S	I I b
Mol%bOenum	h871	2F28	2F20	2F- :	2F- S	1Fh2	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	10Fh:	18F21	18F- -	18F16	1FS8	I I b
PEosI Eorus	- 172	610F41	680FS0	6S4F68	6- 6F- h	6Fh0	I I b
Po&assAum	- h72	2S61F. :	2S- - FS4	2S: SF02	2S48F44	SF0S	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S:		G
pqanOAum	4: 71				1S0		G
pqanOAum	4: 72				1SS		G
pelenAum	8271	SF6S	SF42	SF08	SF6S	2hF- -	I I b
pelenAum	0072	- 6F28	2: F. 1	- 0F2-	- - FS1	1hF0-	I I b
pelenAum	0872	: F02	: Fh-	: F8S	: F82	1F08	I I b
pAAqon	2871	100F2h	108FSS	18- F2h	10hF. -	1F82	I I b
pAver	1S071	SF21	SF2:	SF24	SF2-	1SF20	I I b
pAver	1Sh71	SF2-	SF21	SF2-	SF22	: F42	I I b
poOAum	2- 72	26- Fhh	2: 8F2:	2: 1F80	2: 8FS4	2F- :	I I b
p&ona&um	8671	11- F82	11: FS2	114F- h	114F41	SF. -	I I b
p&ona&um	8871	11hF. 2	122F66	12SF11	12SF06	1F- 8	I I b
pulfur	- 471	721h- F64	71h: : F4:	71: h0FS-	71h1: F- 8		I I b
i erbAum	1: h71				1S8		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF26	SF24	SF24	SF2:	: F8:	I I b
i EallAum	2S: 71	SF26	SF28	SF24	SF26	0F18	I I b
i An	11871	4FS4	- Fhh	4FS6	4FS-	SF88	I I b
i A&anAum	4071	h1F40	h1F40	h2Fh:	h1Fh6	SFh-	I I b
UranAum	2- 871	1F02	1F6h	1F68	1F0S	1F1-	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	: 172	2: F04	26F22	2: F28	2: F0:	1F82	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11S		G
Y&&Aum	8h72				112		G
ZAnq	6672	1- 4F2h	1- 2FS1	1- 1F4:	1- 2F. h	1F1-	I I b
ZAqonAum	hS71	2F2S	2F- 6	2F2h	2F28	- F60	I I b
ZAqonAum	h171	2F21	2F24	2F42	2F2h	: FS:	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	226- 1U51	22: - 1USS	25686U22	24545U01	16U44	I I b
c n&Amon%	12171	- 0U6-	41U66	42U-1	4SU-4	6U2:	I I b
c rsenAq	0: 72	0S1U68	6: SU-5	850U2S	045U82	10U-6	I I b
BarAum	1- : 71	1016U-:	1844U22	18: - U-:	18S4U64	4U24	I I b
BarAum	1- 071	101: U-6	1818U16	185: U6:	18S5U02	: USS	I I b
Ber%IAum	571	- U01	- U50	- U08	- U82	- U-S	I I b
BAsmu&E	2S571				112		G
BAsmu&E	2S572				50		G
BromAne	8171						ql s
v aOmAum	1S871	5U00	12U48	11U40	11U24	12U15	I I b
v aOmAum	1S671	5U84	8U66	5U5-	5U48	0U48	I I b
v aOmAum	11171	5U5S	1SU66	1SU5-	1SU-S	: U12	I I b
v alqAum	4- 71	- 4S21U66	- 0S: 6U54	- 6416U65	- : 8- 1U06	4U40	I I b
v alqAum	4471	- : 2S6U22	- 8SS1USS6	- 0466U--	- 6851U2S	4USS2	I I b
v arbon	1271						ql s
v arbon	1272						ql s
v ElorAne	- : 71						ql s
v ElorAne	- : 72						ql s
v EromAum	: 272	- 0U-S	- 8U8-	: 1U1S	42U48	10U6:	I I b
v obal&	: 572	22U00	2- U64	- SU64	2: U68	16U8S	I I b
v ol I er	6- 72	12: USS8	126U2-	16: U-1	1- 8U54	16U-0	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
. rbAum	16471						ql s
. rbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
h olmAum	16: 71				112		G
h olmAum	16: 72				56		G
DnOAum	11: 71				11S		G
DnOAum	11: 72				5-		G
Don	: 472	- 84- 0USS5	- 8- 0SU6-	: 1- 0- U6-	42020U12	10U--	I I b
Don	: 672	- 0525U84	- 8: 51U52	: S25: U1S	42202U25	16U4:	I I b
Don	: 072	- : : 0- U10	- 6211U-1	40564U5S	- 5516U--	10U48	I I b
Kr%I &on	8- 71						ql s
LeaO	2S671	6: 0U-5	65- U-2	015U5:	65SU-:	4U--	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	6: SU2	601U0	65- U2	601U81	- U2S	I I b
LeaO	2S871	66- U6-	651U84	0S5US-	688U10	- U-	I I b
LA&EAum	671				1S2		G
y aMhesAum	2472	11- 26U46	11458U82	14524US2	12: 8- U1S	16U1-	I I b
y anManese	: : 72	61S: U28	6245U18	822- U05	68: 5U42	10U26	I I b
y ol%bOenum	5471	04U5	81U8S	8SU8	08U86	4U55	I I b
y ol%bOenum	5: 71	46US4	: 1US0	: SU50	45U6	: U8-	I I b
y ol%bOenum	5671	45U05	: - U:	: 4U80	: 2U04	: USS	I I b
y ol%bOenum	5071	40U8S	: 1US5	: SU62	45U84	- U0	I I b
y ol%bOenum	5871	46U0	: SU02	: SU50	45U:	: U24	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	- : U25	- : U1	40U10	- 5U26	10U4:	I I b
PEosI Eorus	- 172	6448U4	66- 4U8S	8818U68	0- SSU60	18US:	I I b
Po&assAum	- 572	865- U2-	8685US:	1144- US	56S8U-	16U4	I I b
CEoOAum	1S- 71				1S8		G
CEoOAum	1S- 72				5:		G
pqanOAum	4: 71				111		G
pqanOAum	4: 72				5-		G
pelenAum	8271	SU44	SU28	1U16	SU6-	0: U06	I I b
pelenAum	0072	6: U5S	68US5	80U-	0- U00	1: U55	I I b
pelenAum	0872	14U66	14U84	2- U2S	10U0	20U06	I I b
pAAqon	2871	160U24	182U68	105U80	106U6S	4U66	I I b
pAger	1S071	11U20	12U5	12U8	12US1	: U6	I I b
pAger	1S571	11U00	12U4:	12U66	12U25	- U08	I I b
poOAum	2- 72	11S1U2	111- US	1: S1U4-	12- 8U82	18U6	I I b
p&ona&Aum	8671	42: U6S	40SU81	4: 6U0-	4: 1US4	: U1-	I I b
p&ona&Aum	8871	4- : U0:	404U6	466U5S	4: 5US0	4U48	I I b
pulfur	- 471	72S1SU08	71261U4	71- 42U5	71: - 8U24		I I b
i erbAum	1: 571				111		G
i erbAum	1: 572				5:		G
i EallAum	2S- 71	- US4	- US4	- U2:	- U11	- U54	I I b
i EallAum	2S: 71	2U5-	- U14	- U24	- U1S	: U1:	I I b
i An	11871	1U52	2U2-	2U20	2U14	8U00	I I b
i A&anAum	4071	4S- U6-	444U46	4- 5U1:	425US8	: U10	I I b
RranAum	2- 871	11U46	12U4-	12US	12US6	4U6	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4467 21	Dns&umne&Name 9	P8
v lAn&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S07 12 1: 9269 14	t a&aFAe Name 9	S: 5c C. FUD

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	: 172	- 40U18	- : 6U61	464U60	- 85U45	16U06	I I b
Y&erbAum	1027 1						ql s
Y&erbAum	1027 2						ql s
Y&erbAum	1067 1						ql s
Y&erbAum	1067 2						ql s
Y&&Aum	857 1				118		G
Y&&Aum	857 2				1S1		G
ZAnq	667 2	1865U85	1512U26	2: 16U6:	2S55U6S	10U2-	I I b
ZAqonAum	5S7 1	2SU 5	22U6S	22U15	21U05	4U88	I I b
ZAqonAum	517 1	21U42	22U6:	22U45	22U15	- US2	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DPP t& 9	y h SF- 6	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdPP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2- - N: U4J	2- 1: JU0-	22J2: U6-	2- 1: 6UJ:	SUJJ	DDe
q5Tb n5%	12171	41U0-	- 0U21	41U-6	4SU10	6U-N	DDe
qpwr 5cd	0: 72	0- 2UJ0	0- : U4S	0- : USS6	0- 4U40	SU1N	DDe
Bspcmb	1- : 71	0- NUSN	6: JUSS6	0- : U00	01SUJ0	6U-2	DDe
Bspcmb	1- 071	0NNU22	0S2UN-	002U-:	0: 4U40	6USS2	DDe
Br p%PPmb	J71	4USS1	- U-S	- U06	- U06	6UNS	DDe
Bcvb mTE	2SJ71				1SJ		G
Bcvb mTE	2SJ72				1S-		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1- U-S	1SU24	12U2N	11UJ4	1- USS-	DDe
v sob cmb	1S671	NU2S	JU-4	1SUS0	JU20	1SU42	DDe
v sob cmb	11171	11U1J	1SU22	1SU46	1SU62	4U0-	DDe
v sPdcmb	4- 71	4- 662U-	- J4- : U2:	420S: U60	41J- 4U42	: U2J	DDe
v sPdcmb	4471	4460SU4-	4S4N6U-2	440N1U16	4- - 12U64	: U6:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- : 71						dDw
v EPhpc5r	- : 72						dDw
v Epmb cmb	: 272	- SUNJ	- SU-0	- SU-4	- SU6S	SUJS	DDe
v nesPT	: J72	22U-0	22U2J	22U2:	22U-1	SU20	DDe
v nDDr p	6- 72	1: NU6S	1: 6U1S	1: 0UJ-	1: 0U-4	SUN2	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				11S		G
h nPb cmb	16: 72				1S:		G
t5ocmb	11: 71				1SN		G
t5ocmb	11: 72				JN		G
tpn5	: 472	- 0140USS6	- 02S- UN-	- 62: JUNN	- 6N0SU26	1U44	DDe
tpn5	: 672	- 6- 66U44	- 61- 1UNN	- : 6: 4U-4	- 6S: SUJ:	1USS1	DDe
tpn5	: 072	- 42: 2U1S	- - 0J4U4:	- - 02NU-	- - J2: USS-	SUN4	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	6- NU1-	: : 1U66	6S4U-N	: JNU12	0U2J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	610U6	: 46US2	: J2U42	: N: U20	6U1J	DDe
Lr so	2SN71	620UJS	: 4JUJJ	6S2UJ	: J- U4-	6U6J	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	J60SU6:	J64- U2J	JN61UJ0	J02: UJS	1U2-	DDe
y s5Ms5r wr	: : 72	6440UNt	6- - : UJ:	62NSU20	6- : 4U6J	1UJ4	DDe
y nP%eor 5mb	J471	N6UJJ	06UJJ	N2U24	N1UN0	: U0:	DDe
y nP%eor 5mb	J: 71	: NUJ2	: 2U14	: 4UN2	: : U16	: UNS	DDe
y nP%eor 5mb	J671	61U6N	: 4U42	: NU6S	: NU2-	6U26	DDe
y nP%eor 5mb	J071	: NU6N	: - U4:	: 4UNt	: : U66	4UN0	DDe
y nP%eor 5mb	JN71	: NU0:	: - U1-	: : U44	: : U00	: US6	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	- 6U0:	- : UJ2	- 6UJ-	- 6UJ-	1U1:	DDe
8 EnwDEnpmw	- 172	: : 1: U2:	: : N: U2-	: 4: SUS4	: : 16UN4	1U2-	DDe
8 nTswwcmb	- J72	NNJ4U46	JSS0U44	NN2NUSS	NJSJUJ0	1US2	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
l ds5ocmb	4: 71				1SN		G
l ds5ocmb	4: 72				JJ		G
l r P 5cmb	N271	SUJS	SU6N	1US1	SUN6	1JU2N	DDe
l r P 5cmb	0072	: 0UJ4	: 1U21	: JUJ1	: 6U22	0UN4	DDe
l r P 5cmb	0N72	1- U21	16U0J	12U6-	14U21	1: UNN	DDe
l dcdn5	2N71	1J: UN2	10: U2-	1J1U1N	1N0U41	: U06	DDe
l dgr p	1S071	12USJ	1SU6-	11U4J	11U4S	6U4:	DDe
l dgr p	1SJ71	11UJ0	1SUJ:	11UJ0	11UJS	4U40	DDe
l nocmb	2- 72	1SS0UN1	1SS4U26	1SS1US0	1SS4UJN	SUJ4	DDe
l Tpn5Tcmb	N671	: : JUJ6	4NNU60	: - SU1-	: 26U26	6UNS	DDe
l Tpn5Tcmb	NN71	: 6- UJ-	: SJU66	: - NU02	: - 0U24	: USS	DDe
l mPmp	- 471	0142USN	: - 06U42	0S66U40	6: 2NUJ2	1: U2J	DDe
Ar pecmb	1: J71				1SJ		G
Ar pecmb	1: J72				1S4		G
AEs Pbmb	2S- 71	2UN1	2U44	2UJ0	2U61	0U2:	DDe
AEs Pbmb	2S: 71	2UN1	2U4S	2U0-	2U64	NU2J	DDe
Ad5	11N71	2USN	2U1J	2U11	2U1-	2U0-	DDe
AdS5cmb	4071	- 00UN6	- - : UJJ	- 60U4N	- 6SU24	6U1:	DDe
Rps5cmb	2- N71	1- US1	11U1:	12UJ-	12U16	0U06	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Rt 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	- 1- UJ0	- 16U60	- 12UN0	- 14U S	SU62	DDe
YTTr pe omb	10271						dDw
YTTr pe omb	10272						dDw
YTTr pe omb	10671						dDw
YTTr pe omb	10672						dDw
YTTpomb	NJ71				114		G
YTTpomb	NJ72				1S4		G
Zc5d	6672	1N- 2U J	1N- 4UJ-	10J- U66	1N2SU4S	1U20	DDe
Zqpdn5omb	JS71	21U0:	1JU11	21U26	2SU01	6UNS	DDe
Zqpdn5omb	J171	22U44	1JU2N	21U2J	21U$S	0U J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UndTw
Pmb cncmb	2072	1- h6hFN-	1- N90F2h	1- 022FSS	1- N4hF01	SFhS	DDe
nTb on%	12171	SF09	SF06	SF0h	SF06	2F0N	DDe
pwr ncq	0972	N2FS2	N9F11	N6F46	N4F9-	2F6h	DDe
Bspcmb	1- 971	- 04F99	- N1F6S	- N- F49	- 0hFN0	1F24	DDe
Bspcmb	1- 071	- 0NF6-	- 0NFh1	- N4F4-	- NSF66	SFN6	DDe
Br p%PPmb	h71	1F69	1F6N	1F69	1F66	1F2N	DDe
Bcwb mTE	2Sh71				1S0		G
Bcwb mTE	2Sh72				1S9		G
Bpob cnr	N171						qDw
RsCb cmb	1SN71	1Fh6	1Fh4	2F1N	2FS2	6F6S	DDe
RsCb cmb	1S671	SF96	7- FS9	71FS2	71F10		DDe
RsCb cmb	11171	1F9-	1F- 9	1F- h	1F42	6F61	DDe
RsPqcmb	4- 71	1N- 1- F04	1N244Fh9	1N24- F- 6	1N260F- 9	SF22	DDe
RsPqcmb	4471	1h1- 4FNS	1hSS- F9S	1NN46F2S	1Nhh4FN-	SF06	DDe
Rspeon	1271						qDw
Rspeon	1272						qDw
REPpcnr	- 971						qDw
REPpcnr	- 972						qDw
REpob cmb	9272	22F91	22F49	22FS0	22F- 4	1FS0	DDe
RoesFT	9h72	16Fh1	10F94	16FN0	10F1S	2F1h	DDe
RoDDr p	6- 72	09F92	04FN6	04Fh2	09F1S	SF4N	DDe
&%wDpowcmb	19671						qDw
&%wDpowcmb	19672						qDw
Cpecmb	16471						qDw
Cpecmb	16472						qDw
HsCbPhcmb	16S71						qDw
HsCbPhcmb	16S72						qDw
y oPb cmb	16971				1Sh		G
y oPb cmb	16972				1S4		G
tnOcmb	11971				1S6		G
tnOcmb	11972				hh		G
tpon	9472	42NS6F21	42hS6FN9	4- S62F42	42h29F16	SF- S	DDe
tpon	9672	4264NF9N	42- 1SFNh	41N6NF02	42206FS6	SFh-	DDe
tpon	9072	42916FNN	42hN2F16	4199NF6N	42- 92F9N	1F01	DDe
Kp%DTon	N- 71						qDw
Lr sO	2S671	NhF91	N6F0h	N0Fh6	NNFSN	1F99	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTop.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 4467S1	tnwTpmb nr T.u sb r :J	8 N
RPr nTI sb DPP:t&:.J	My S. S2	&dPmTon:. sqTop.J	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF.RonqF	Ronq5 I &	UndTw
Lr sO	2S071	N9F92	N2FN2	N- FNh	N4FSN	1F62	DDe
Lr sO	2SN71	N6F4N	N4F9-	N0FS4	N6FS2	1F94	DDe
LdEomb	671				hh		G
Msgnr womb	2472	69h1FN6	6091FhS	66N9F46	6606F41	1F2S	DDe
Msngsnr wr	9972	hh6F6S	1SS1F6N	hh4F9-	hh0F6S	SF- 0	DDe
MoP%eOr nnmb	h471	12FS9	11FNh	11Fh6	11Fh0	SF66	DDe
MoP%eOr nnmb	h971	1FN6	1FNS	1F6-	1F06	6FN2	DDe
MoP%eOr nnmb	h671	2Fh1	2F06	2FN1	2FN-	2F6-	DDe
MoP%eOr nnmb	h071	1F6-	1F6N	1F01	1F60	2F29	DDe
MoP%eOr nnmb	hN71	1F04	1F0h	1F00	1F00	1F4S	DDe
u r oO%b omb	19S71						qDw
u r oO%b omb	19S72						qDw
u oqkr P	6S72	- - F24	- - F- h	- - F14	- - F26	SF- 0	DDe
8 EowDEopmw	- 172	- 62SFN-	- 4- 1F96	- - 4NF29	- 466FNN	4FS-	DDe
8 oTswwomb	- h72	92SNF- h	9- 91Fhh	9210F20	929hF22	1F9-	DDe
5 EoOomb	1S- 71				1S6		G
5 EoOomb	1S- 72				1S-		G
I qsnOomb	4971				1SN		G
I qsnOomb	4972				hh		G
I r PnomB	N271	1Fh2	1F96	1F69	1F01	11FS0	DDe
I r PnomB	0072	- 0F- -	4SF06	2hF94	- 9FNN	16FS2	DDe
I r PnomB	0N72	NFN2	6F06	1SF6h	NF06	22F4h	DDe
I dRqon	2N71	290F- 1	29- F0-	24SF- 2	29SF46	- F9N	DDe
I dPr p	1S071	SF- 6	SF4S	SF- 0	SF- N	9F6N	DDe
I dPr p	1Sh71	SF- h	SF- N	SF- 9	SF- 0	9FhS	DDe
I oOomb	2- 72	1hNF60	1h4F4h	1hhF02	1h0F6-	1F4S	DDe
I TponTomb	N671	162F6S	169F11	162FSh	16- F20	SFhh	DDe
I TponTomb	NN71	16NFh-	101F06	16hF20	16hFhN	SFh1	DDe
I mPmp	- 471	7h0NF4S	712N2F1N	71- 2SFNN	711h- FN2		DDe
Ar peomb	19h71				11S		G
Ar peomb	19h72				1S-		G
AEsRPmb	2S- 71	SF- 6	SF- 9	SF- 6	SF- 9	2F10	DDe
AEsRPmb	2S971	SF- 1	SF- 1	SF- 2	SF- 1	SF6S	DDe
Aon	11N71	1F46	1F94	1F91	1F9S	2F96	DDe
AdSnomb	4071	11hF46	110F- 0	119F4h	110F44	1F6h	DDe
Upsnomb	2- N71	- F- 4	- F20	- F- 9	- F- 2	1F20	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 sspsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UncTw
VsnsOomb	9172	9hF96	9NFh1	9hF9-	9hF- -	SF62	DDe
YTTr peomb	10271						qDw
YTTr peomb	10272						qDw
YTTr peomb	10671						qDw
YTTr peomb	10672						qDw
YTTpomb	Nh71				11-		G
YTTpomb	Nh72				1SN		G
Zonq	6672	- 2- FS2	- 1hFS6	- 10F06	- 1hFh4	SFN6	DDe
Zqpqonomb	hS71	9Fh1	9FN2	9Fh-	9FNh	SFh0	DDe
Zqpqonomb	h171	9FN6	6F44	6FS-	6F11	4FN6	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WJA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
c&umA5Aum	20:2	1F7a	1F52	1F 1	1F47	71F71	l l b
c5&Amn5h	121:1	SF51	SF51	SF5S	SF51	4aF26	l l b
crl e5Aq	0-:2	SF52	SF57	SF52	SF52	27Fa	l l b
BwrAum	17-:1	SF1S	SF51	SF54	SF5-	a0F60	l l b
BwrAum	170:1	SF17	SF52	SF51	SF56	121F-6	l l b
Berh&Aum	:1	SF52	SF52	SF51	SF52	74F1a	l l b
BAmu&%	2S :1				1S-		E
BAmu&%	2S :2				1S2		E
BrnmA5e	a1:1						ql l
CwOmAum	1Sa:1	:SF1S	:SF1S	:SF52	:SF50		l l b
CwOmAum	1S6:1	:6F22	:0Fa7	:6F2-	:6F00		l l b
CwOmAum	111:1	:SF54	:SF5-	:SF5-	:SF5-		l l b
Cw&qAum	47:1	2F 4	1F56	:SF1S	1F7S	110F 6	l l b
Cw&qAum	44:1	10F51	12F66	1-F2-	14F 0	14F64	l l b
Cwrbn5	12:1						ql l
Cwrbn5	12:2						ql l
C%&nrA5e	7-:1						ql l
C%&nrA5e	7-:2						ql l
C%nnmAum	-2:2	SF57	:SF57	SF12	SF54	1a-F0	l l b
Cnbw&&	- :2	SF5S	SF5S	SF5S	SF5S		l l b
CnI l er	67:2	SF26	SF1-	SF22	SF21	26F -	l l b
t hl l rnl Aum	1-6:1						ql l
t hl l rnl Aum	1-6:2						ql l
. rbAum	164:1						ql l
. rbAum	164:2						ql l
GwOn&5Aum	16S:1						ql l
GwOn&5Aum	16S:2						ql l
Hn&nAum	16-:1				1S4		E
Hn&nAum	16-:2				1S4		E
D5OAum	11-:1				1S4		E
D5OAum	11-:2				1SS		E
Dn5	-4:2	1Fa-	2F7-	1F5S	1F07	7 F22	l l b
Dn5	-6:2	SF0a	2F7a	1F4S	1F-2	-7F5S	l l b
Dn5	-0:2	:SF50	7F51	2F14	1F6	4F57	l l b
Krhl &n5	a7:1						ql l
LewO	2S6:1	SF17	SF5a	SF5a	SF1S	2aF6a	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw8ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8&e5&pwml &e9D 9J9	3Bp 21	t A&u8&n59Jwq8ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WJA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
LewO	2S0:1	SF14	SF5	SF5	SF11	27F16	I I b
LewO	2Sa:1	SF12	SF5a	SF5	SF1S	27F46	I I b
LA&%Aum	6:1				-		E
y wW5el Aum	24:2	SF- -	1F-4	SFa	SF	- 1F5	I I b
y w5Mw5el e	- - :2	SF11	SF16	SF40	SF2-	0aF0a	I I b
y n8nbOe5um	4:1	SF56	SF5-	SF5S	SF54	a4F06	I I b
y n8nbOe5um	- :1	SF52	SF52	SF57	SF52	7- F26	I I b
y n8nbOe5um	6:1	SF56	SF52	SF51	SF57	00F4S	I I b
y n8nbOe5um	0:1	SF57	SF52	SF5S	SF52	1S4F-4	I I b
y n8nbOe5um	a:1	SF52	SF51	SF51	SF51	0SFaa	I I b
NenOhmAum	1- S:1						ql l
NenOhmAum	1- S:2						ql l
NAqke8	6S:2	:SF52	SF52	SF51	SF5S	1S- 6F2S	I I b
3%nl l %nrul	71:2	:0SF7-	:4 F- -	:71Fa6	:- SF-		I I b
3n&wl l Aum	7 :2	:SF60	:6F44	7F52	:1F76		I I b
v %nOAum	1S7:1				1S7		E
v %nOAum	1S7:2				1S4		E
pqw5OAum	4- :1				1S2		E
pqw5OAum	4- :2				6		E
pe&e5Aum	a2:1	:SF10	:SF27	:SF14	:SF1a		I I b
pe&e5Aum	00:2	1F S	:SF7a	:SF7a	SF7a	744F50	I I b
pe&e5Aum	0a:2	SF5	:SF1-	SF62	SF1	21SF0S	I I b
pA&qn5	2a:1	SF5S	:SF12	SF5S	:SF54		I I b
pA&ger	1S0:1	SF51	SF51	SF51	SF51	40F74	I I b
pA&ger	1S :1	SF52	SF52	SF51	SF52	7SF4	I I b
pnOAum	27:2	F64	0F7S	F41	aF0a	14F0S	I I b
p&n5&Aum	a6:1	SF50	SF50	SF1S	SF5a	21F12	I I b
p&n5&Aum	aa:1	SF5	SF54	SF57	SF5-	- 1F S	I I b
pu&ur	74:1	:270SFaa	:22 6F54	:2S42F-	:2276F-S		I I b
i erbAum	1- :1				1S4		E
i erbAum	1- :2				1S7		E
i %w8Aum	2S7:1	SF54	SF56	SF56	SF5-	24F2-	I I b
i %w8Aum	2S- :1	SF5-	SF54	SF5-	SF5-	12F	I I b
i A5	11a:1	:SF57	SF5S	SF5S	:SF51		I I b
i A&w5Aum	40:1	:SF54	:SF5-	:SF52	:SF54		I I b
Rrw5Aum	27a:1	SF5S	SF5S	SF5S	SF5S	144F07	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw8ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8Ae5&pwml &e9D 9J9	3Bp 21	t A&u&Ah59Uwq8ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
Vw5wOAum	-1:2	SF5S1	SF5S2	SF5S1	SF5S1	41F10	l l b
Y&erbAum	102:1						ql l
Y&erbAum	102:2						ql l
Y&erbAum	106:1						ql l
Y&erbAum	106:2						ql l
Y&&Aum	a :1				1S1		E
Y&&Aum	a :2				1S4		E
ZA5q	66:2	:SF5S0	SF12	SF1S	SF5-	222F66	l l b
ZAqn5Aum	S:1	SF5S1	:SF5S1	:SF5S2	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S7	SF5SS	:SF5S1	:SF5S1		l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WUA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	72F-2	7-F--	77F6S	77FN	4F-2	l l e
c5&b n5h	12191	7FS0	7F1S	7F17	7F1S	SF 1	l l e
cpl r 5Aq	0-92	1F01	1F00	1FN	1F0	-F12	l l e
BwpAmb	17-91	1-F 1	1-F6	1-F7S	1-F67	1F 6	l l e
BwpAmb	17091	1-F20	1-F2	1-F7	1-F72	SF4S	l l e
Br ph8Amb	91	1F66	1F-4	1F-N	1F-	4FS0	l l e
BAb m8%	2S 91				1S7		E
BAb m8%	2S 92				1S7		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F77	1F-4	1F17	1F77	1-F67	l l e
CwCb Amb	1S691	92F74	94F74	92F71	97FSS		l l e
CwCb Amb	11191	1FNN	1F6-	1F61	1F02	NF--	l l e
Cw&pAmb	4791	00NF10	6 6F41	6 -F46	027F74	6F-6	l l e
Cw&pAmb	4491	0NNF66	0SSF-0	01NFN	076FS4	6F72	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	7F76	7F40	7F16	7F77	4F0	l l e
Cnew&&	- 92	1F0S	1F0	1F6	1F07	7F2-	l l e
CnI l r p	6792	7F-7	7FN6	7F62	7F60	4F-0	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8A5Amb	16S91						ql l
GwOn8A5Amb	16S92						ql l
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S4		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S1		E
Dpn5	-492	722F---	776F0N	77SF 6	77SF1S	2F10	l l e
Dpn5	-692	777F62	742F10	771F4N	77-F06	1F6	l l e
Dpn5	-092	71 F1-	77-F 1	724F4N	726F-1	2F62	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F-0	1F-S	1F-7	1F-7	2F2-	l l e

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On:7/14/2023 8:48:56 AM
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LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ A8 r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&wUA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-N	1F-S	1F-N	4F-	I l e
Lr wO	2SN91	1F67	1F-2	1F-S	1F-	4F20	I l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N-1F S	S6F5-	N6SFN-	N02F 7	7F77	I l e
y w5Mw5r l r	- - 92	1F64	1F04	1F62	1F60	7F S	I l e
y n8neOr 5mb	491	F22	NF6	NF1	NF0S	- F 6	I l e
y n8neOr 5mb	- 91	0FN7	0F1S	0F7S	0F41	- F5	I l e
y n8neOr 5mb	691	0F S	0F56	0F4N	0F4N	- F-0	I l e
y n8neOr 5mb	091	NF17	0F21	0F52	0F4-	0F -	I l e
y n8neOr 5mb	N91	0F67	0F22	0F2S	0F7-	7F7-	I l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1F 0	1FN2	1F 1	4F46	I l e
3 %nl l %npm	7192	914F-4	9-NF27	9-6FN7	947F2S		I l e
3 n&w l Amb	7 92	N11F17	N4NFS6	NS-F00	N21F6-	2FNS	I l e
v %nOAmb	1S791				1SS		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4-91				1S1		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F42	NF07	0F--	0F S	F1-	I l e
: r 8 5Amb	0092	NF12	1SF51	FN-	F77	11F24	I l e
: r 8 5Amb	0N92	0F4S	F52	0F 1	NF11	1SF2S	I l e
: A8qn5	2N91	1F77	SFN7	SF 4	1F57	2-F24	I l e
: A8gr p	1S091	1F60	1F-	1F-S	1F-	- F74	I l e
: A8gr p	1S 91	1F62	1F-6	1F6S	1F-	1FN-	I l e
: nOAmb	2792	N77F-	NN7FN-	N16F16	N44F-4	4F16	I l e
: 8qn5&Amb	N691	1F60	1F-0	1F-7	1F-	4F-7	I l e
: 8qn5&Amb	NN91	1F60	1F-4	1F-1	1F-0	- F21	I l e
: m8mp	7491	91266FSS	922N-F-	91 61F-0	91N70F02		I l e
i r peAmb	1- 91				1S4		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F-6	1F40	1F-S	1F-1	2F 0	I l e
i %w8Amb	2S-91	1F-0	1F-1	1F-6	1F-	2F50	I l e
i A5	11N91	SF5S	SF52	SF57	SF52	N2F4S	I l e
i A&w5Amb	4091	NF-4	0F7-	0F5N	0F66	1SF12	I l e
Rpw5Amb	27N91	1F-S	1F7-	1F70	1F41	- F0N	I l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 21	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WJA8 Ju wb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF-N	NF4	NF-2	NF-7	SF-2	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	NF66	NFSN	NF4	NF41	7F-	l l e
ZAqn5Amb	S91	1F-4	1F4-	1F41	1F40	4F04	l l e
ZAqn5Amb	191	1F6	1F70	1F4N	1F-1	1SF-4	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 944946	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1h26: F1S	1h- 0: F46	1hSh4F2S	1h244Fh2	SF04	l l b
c n&Amon%	12171	SF- 8	SF42	SF42	SF41	4F0:	l l b
c rsenAq	0: 72	18F0-	1hFS:	18F6:	18FB1	1F1-	l l b
BarAum	1- : 71	- : 1F6S	- 08F08	412F66	- 81FS1	8FS-	l l b
BarAum	1- 071	- 6: FB2	- 8SF66	410F0h	- 88FSh	6FhS	l l b
Ber%lAum	h71	1F16	1F28	1F- 0	1F20	8F. 4	l l b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F16	SF0:	SFh:	SFh:	21F68	l l b
RaOmAum	1S671	7- F28	74FS1	7SF01	72F60		l l b
RaOmAum	11171	SFB1	SF06	SFB:	SFB1	: F. 1	l l b
RalqAum	4- 71	- hS0SF08	42S- SFh1	4: - S1F01	421- 4F46	0F4S	l l b
RalqAum	4471	- h82hFB1	4- 164F00	46ShSFS0	4- S28F21	0F28	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- : 71						ql s
RElorAne	- : 72						ql s
REromAum	: 272	2- Fh1	22FBS	2- F11	2- F20	2F46	l l b
Robal&	: h72	1- F4S	1- F. :	1- F0h	1- F. 8	1F40	l l b
Rol l er	6- 72	- 2F. -	- 2Fh6	- 2F24	- 2F. 0	1F11	l l b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S4		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	- 6126F1h	- 06S1Fh6	- 6242F1:	- 66: 6F00	2F24	l l b
Don	: 672	- 6: 00F0S	- 062hF- 6	- : h10FSS	- 60S8FS2	2F- :	l l b
Don	: 072	- 44S6F6:	- 4612F68	- 4146FB0	- 4- 88F0-	SF68	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	: 1F0:	: : F60	: hF0h	: : F04	0F21	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	4hFS6	: 2F62	: 6F0:	: 2FB1	0F2h	I I b
LeaO	2S871	: SF4-	: 4FS-	: 8F0-	: 4F4S	0F64	I I b
LA&EAum	671				1SS		G
MagnesAum	2472	1: 626F2:	1: 88: F46	1: h6- F21	1: 824Fh0	1F11	I I b
Manganese	: : 72	60- F06	682Fh1	66hF4-	60: F- 0	1FS2	I I b
Mol%bOenum	h471	4F0:	: F40	: F62	: F28	8F08	I I b
Mol%bOenum	h: 71	1F4h	1F6S	1FBS	1F6-	hF4h	I I b
Mol%bOenum	h671	1F00	2F1S	2F1:	2FS1	1SF42	I I b
Mol%bOenum	h071	1F. 1	1F66	1F66	1F61	: F- :	I I b
Mol%bOenum	h871	1F46	1F62	1FB6	1F6:	12FSh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	20F- 0	28FSS	20F- 1	20F. 6	1F- h	I I b
PEosI Eorus	- 172	1h8- F04	2Sh2F40	1hh0F- 0	2S24F. 2	2Fh-	I I b
Po&assAum	- h72	624hF21	62- 2FhS	6264F62	6248Fh1	SF2:	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S1		G
pqanOAum	4: 71				1Sh		G
pqanOAum	4: 72				h8		G
pelenAum	8271	SF- h	SF. 8	SFh4	SF64	44F1:	I I b
pelenAum	0072	2SF10	2: F4S	- : F. 2	20FS-	28FB8	I I b
pelenAum	0872	0F48	0F- S	4FB2	6F. -	22FB2	I I b
pAAqon	2871	21: FB1	2- 2F- S	2: 1F20	2- - F1-	0F61	I I b
pAver	1S071	SF- 1	SF24	SF20	SF28	1- F20	I I b
pAver	1Sh71	SF2h	SF2h	SF- :	SF- 1	11F00	I I b
poOAum	2- 72	4: 1FB8	40- F1h	466F1:	46- F04	2F- 4	I I b
p&ona&um	8671	- - 2F28	- 0- F- h	- 8- F1S	- 62Fh2	0F4-	I I b
p&ona&um	8871	- 41FS1	- 8SF1h	- 8hF- 0	- 0SF1h	6Fh4	I I b
pulfur	- 471	72S6hF- 0	7144hFB2	78S1F62	7144SF20		I I b
i erbAum	1: h71				112		G
i erbAum	1: h72				1S:		G
i EallAum	2S- 71	SF- 6	SF42	SF4S	SF4S	0F08	I I b
i EallAum	2S: 71	SF4S	SF4S	SF44	SF41	: FB4	I I b
i An	11871	1FS6	1F16	1F- -	1F1h	11F40	I I b
i A&anAum	4071	8hF28	h0FB-	1S1F- S	h6F14	6F4-	I I b
UranAum	2- 871	2FS0	2F1-	2F- 4	2F18	6F68	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: : F- S	: : Fn:	: : F20	: : F. 1	SF68	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11-		G
Y&&Aum	8h72				1S6		G
ZAnq	6672	168F0-	101FS1	164F. 8	168F11	1Fn4	l l b
ZAqonAum	hS71	2FS1	2F- h	2F44	2F28	1SF28	l l b
ZAqonAum	h171	2FS6	2F- 0	2F. -	2F- 2	1SF- S	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1624SF0-	1: 064FSS	1: 62: F00	1: 806F8-	2FS-	I I b
cn&Amonh	12171	SF= 4	SF4:	SF= %	SF= %	1- F2%	I I b
crsenAq	0: 72	21F28	21F88	2SF4%	21F22	- F28	I I b
BarAum	1- : 71	- 16F2S	- 6- F6S	- 26F68	- - : F4%	0F42	I I b
BarAum	1- 071	- 18F. 4	- 64F8%	- - %F06	- 41FS0	6F8S	I I b
BerhlIAum	%71	1FS-	1F22	1FS2	1FS%	1SF6%	I I b
BAsmu&E	2S%71				1S-		G
BAsmu&E	2S%72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	SF0%	1FS2	SF04	SF8:	10F41	I I b
RaOmAum	1S671	72F%6	7SF2S	1FS4	7SF01		I I b
RaOmAum	11171	SF08	SF8:	SF06	SF8S	6F= -	I I b
RalqAum	4- 71	- 6S: %F64	4S248F= %	- 6002F8%	- 06% F64	: F%	I I b
RalqAum	4471	- 6: 80FS:	41%%%F1-	- 6%6%F0%	- 8: 18F66	0F84	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1%F: %	1%F: 0	1%F: 4	1%F: 0	SF1:	I I b
Robal&	: %72	12F08	12F%8	12F62	12F0%	1F= 8	I I b
RoI I er	6- 72	20F88	20F: 4	20F6-	20F68	SF6-	I I b
t hsI rosAum	1: 671						ql s
t hsI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S:		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S-		G
DnOAum	11: 72				1SS		G
Don	: 472	- - : 01F01	- - 264F= 4	- 28: SF06	- - 228F%4	1FS%	I I b
Don	: 672	- - 1: 8F88	- 26%4F%	- 2: 04F24	- 28S%F= 6	SF%4	I I b
Don	: 072	- 1126F86	- 111- F41	- S1% F: %	- S811F28	1F04	I I b
Krhl &on	8- 71						ql s
LeaO	2S671	48F68	: 2F%d	: 1F= 2	: SF%0	4F2S	I I b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	46F0%	: 1F86	4%F- %	4%F- :	: F14	I I b
LeaO	2S871	40F6%	: 2P%0	4%F- %	: SF52	: F- %	I I b
LA&EAum	671				%		G
MagnesAum	2472	122S2F02	1186- F4%	116- - F40	118%%F8%	2F41	I I b
Manganese	: : 72	6S8P%2	: %%P%6	: %6F24	6S1F01	1FS8	I I b
MolhbOenum	%471	4F66	: F- S	: FS-	: FSS	6F- 0	I I b
MolhbOenum	% 71	1F. 1	1F0-	1F6-	1F62	6F01	I I b
MolhbOenum	%671	1F88	2FS8	1P%6	1P%0	4P%4	I I b
MolhbOenum	%071	1F. -	1F82	1F. 8	1F64	%F64	I I b
MolhbOenum	%871	1F40	1F6%	1F. 6	1F. 0	6P%	I I b
NeoChmAum	1: S71						ql s
NeoChmAum	1: S72						ql s
NAqkel	6S72	20F41	26FS2	26F1S	26F. 1	2P%4	I I b
PEosI Eorus	- 172	148SF14	12%%F11	1- 0- F46	1- 84F24	6F. 0	I I b
Po&assAum	- %72	484: F22	460SF- 2	40- 0FS2	40: SF8:	1F86	I I b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4: 71				1S-		G
pqanOAum	4: 72				%%		G
pelenAum	8271	SF00	SP%	SP%.	SF88	1SP%8	I I b
pelenAum	0072	28F80	- %F41	- 1F- 1	- - F1%	16F62	I I b
pelenAum	0872	0F18	: F14	: F40	: P%.	18F40	I I b
pAAqon	2871	224FS6	248F44	242F1-	2- 8F21	: F- 1	I I b
pAver	1S071	SF28	SF- 2	SF20	SF2%	%P%%	I I b
pAver	1S%71	SF- 1	SF- 4	SF- S	SF- 2	0F0S	I I b
poOAum	2- 72	442F4-	4- 2FS%	428F44	4- 4F- 2	1F60	I I b
p&on&Aum	8671	2%0F41	- 22FS0	- S- F64	- S0F01	4F10	I I b
p&on&Aum	8871	- S2F1-	- - 4F42	- 16FS0	- 10F. 4	: F1S	I I b
pulfur	- 471	71440F21	7- 0: F26	712: - F- 2	71S2: F26		I I b
i erbAum	1: %71				1S6		G
i erbAum	1: %72				1S4		G
i EallAum	2S- 71	SF- 1	SF- -	SF- 0	SF- 4	8F10	I I b
i EallAum	2S: 71	SF- -	SF- :	SF- :	SF- :	2F86	I I b
i An	11871	SP%1	1FS%	1F- 4	1F11	1%F18	I I b
i A&anAum	4071	06F- 0	8- FS8	0: F60	08F- 0	: F22	I I b
UranAum	2- 871	1F08	1P%8	1F80	1F88	: F- S	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: SF%	: 2F2:	: SF%0	: 1F- 8	1F46	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				1S0		G
Y&&Aum	8%72				1S6		G
ZAnq	6672	1- 0F88	1- SF4:	1- : F%%	1- 4F00	2F80	l l b
ZAqonAum	%S71	1F%%	2F2S	1F%	2FS:	6F: S	l l b
ZAqonAum	%171	1F%8	2F2S	1F88	2FS2	0F%4	l l b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18h: - F- h	1818: F2:	10: 1SFh:	18216F. -	- Fh6	I I b
c n&Amon%	12171	SF- S	SF- 4	SF- 1	SF- 2	: F04	I I b
c rsenAq	0: 72	16F22	1: F26	1: F- 4	1: F61	- F41	I I b
BarAum	1- : 71	: 04F46	: 61F. :	: 6: F8h	: 60F- S	1F16	I I b
BarAum	1- 071	: 8hF. 1	: 0- F. S	: 6hF12	: 00F- 0	1F86	I I b
Ber%lAum	h71	: F1 S	4Fh2	4Fh:	4Fhh	1Fh2	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	1F60	1F- 6	1FhS	1F64	16F4:	I I b
RaOmAum	1S671	: F20	6F- 4	- F. :	: FS:	20Fh-	I I b
RaOmAum	11171	1F4S	1F41	1F4-	1F41	1F1h	I I b
RalqAum	4- 71	12060F68	1- S00F80	120- 8F28	12861F28	1F46	I I b
RalqAum	4471	1- : 82F- h	1- 2: 6F6S	1- - : 1F. S	1- - h6F8-	1F2:	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1: F2-	14Fh0	14F44	14F88	2F0S	I I b
Robal&	: h72	1- F. 8	1- F- S	12Fh4	1- F28	2F42	I I b
RoI I er	6- 72	2hF44	28FS:	20FS:	28F18	4F26	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	: 800hF- S	: 8668F- 2	: 4h21F2-	: 04: 6F28	- F82	I I b
Don	: 672	: hS6- F. 6	: 684hF. S	: : 1S: F- -	: 0SS6F1-	- F48	I I b
Don	: 072	6S64SFh:	: 68h8Fh:	: 6S- hF86	: 08: hFh2	4F2-	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	06FhS	0: F08	04F- 6	0: F68	1F68	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	02Fh0	02F01	0SF- S	02FSS	2FS4	I I b
LeaO	2S871	00F21	0: Fh-	04F86	06FSS	1F: :	I I b
LA&EAum	671				h0		G
MagnesAum	2472	: 08hF62	: 612F0S	: - hhF48	: 6SSF6S	- F4h	I I b
Manganese	: : 72	- : S8F4h	- 4- 4F44	- 206F48	- 4S6F40	- F48	I I b
Mol%bOenum	h471	4F60	4F02	4F64	4F68	SFh:	I I b
Mol%bOenum	h: 71	2F- 1	2F4S	2F21	2F- 1	4FS2	I I b
Mol%bOenum	h671	2F: 1	2F: :	2F46	2F: 1	1F8:	I I b
Mol%bOenum	h071	2F- 4	2F- h	2F2:	2F- -	- FSS	I I b
Mol%bOenum	h871	2F- 6	2F2-	2F1-	2F24	4Fhh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	24F- h	2- F2-	22F46	2- F- 6	4F14	I I b
PEosI Eorus	- 172	1- : 0F2:	1- 88Fh4	1- 16F: 4	1- : 4F24	2F68	I I b
Po&assAum	- h72	h8- 6F40	h608F- 1	h16: F68	h: 6SF1:	- F60	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				hh		G
pelenAum	8271	2F0h	2F02	- FS1	2F84	: F28	I I b
pelenAum	0072	100F4-	101F- h	16: F: :	101F46	- F40	I I b
pelenAum	0872	- 2F64	- 6F88	- - F22	- 4F24	6F01	I I b
pAAqon	2871	2- : F- 0	2: SFh4	2- 6Fh:	241FSh	- F: :	I I b
pAver	1S071	SF2h	SF2h	SF26	SF28	6F6S	I I b
pAver	1Sh71	SF- S	SF- :	SF28	SF- 1	12F11	I I b
poOAum	2- 72	122Fh4	11- F84	1S: FS:	11- Fh:	0F8:	I I b
p&on&Aum	8671	0: F: 6	06F84	04F04	0: F01	1F4S	I I b
p&on&Aum	8871	82F11	0hFh8	00F61	0hFhS	2F82	I I b
pulfur	- 471	716- 6F64	71: 2hF1h	72SS- Fh6	7102- F26		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF: 1	SF: 1	SF48	SF: S	2F80	I I b
i EallAum	2S: 71	SF: -	SF: S	SF: 2	SF: 1	2F82	I I b
i A	11871	- F28	- F- :	- F1h	- F20	2F: 4	I I b
i A&anAum	4071	: 44F: S	: 60F- 4	: : SFh8	: : 4F20	2F12	I I b
UranAum	2- 871	4F- 0	4F- h	4F- :	4F- 0	SF: 1	I I b

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LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	42F16	41F41	- 8F. 4	4SF0S	4F0S	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				14-		G
Y&&Aum	8h72				1- h		G
ZAnq	6672	- - hF4S	- - 1F11	- 22F- -	- - SFh:	2F. 8	l l b
ZAqonAum	hS71	1F6-	1F6:	1F60	1F6:	1F22	l l b
ZAqonAum	h171	1F64	1F. :	1F62	1F6S	- FS4	l l b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18: 08F28	18- : 2F- h	18284FSh	184S4Fh2	SFB4	I I b
c n&Amon%	12171	SF- S	SF2h	SF- 1	SF- S	- F- -	I I b
c rsenAq	0: 72	16FS0	16FS4	16F- 1	16F14	SFhS	I I b
BarAum	1- : 71	6S0F. 4	: h2F62	6S- F- :	6S1F10	1F28	I I b
BarAum	1- 071	612F60	6S8F18	6S0F02	6ShF. 2	SF4:	I I b
Ber%lAum	h71	: F11	4Fh6	: F10	: FS8	2F1:	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	1F- 1	1F42	1F- -	1F- 6	4F1:	I I b
RaOmAum	1S671	: Fh-	4F6S	6F12	: F. :	14Fh6	I I b
RaOmAum	11171	1F61	1F68	1F66	1F6:	2F42	I I b
RalqAum	4- 71	1- - S0F6:	1- 488F. h	1- 22- F- -	1- - - hFB6	1FS2	I I b
RalqAum	4471	1- 0h4F. S	1- 66: F2h	14SS4FS6	1- 821F28	1F24	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	14Fh8	1: F- 0	14FBS	1: FS:	1Fh1	I I b
Robal&	: h72	12Fhh	1- F1:	12FB0	1- FSS	1FS8	I I b
RoI I er	6- 72	20F- 0	20F12	20F1h	20F2-	SF48	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1Sh		G
y olmAum	16: 72				1S8		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1S-		G
Don	: 472	: 0: 4: F. :	: 88: 1F18	: h- 8SF- 6	: 8: h2F- 6	1F61	I I b
Don	: 672	: 8S1hF12	: 8h- : FSS	: 824hFh-	: 84S1F- :	SFB2	I I b
Don	: 072	: h664F1S	6SS- : FB:	: h6h6F24	: h0h8F0-	SF- 4	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	8SF- 6	0hFBS	08F- 2	0hF4h	1F- 2	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	06F81	04F22	04F40	0: F16	1FhS	I I b
LeaO	2S871	8SF26	08F11	08F: :	08Fh0	1F44	I I b
LA&EAum	671				h8		G
MagnesAum	2472	: - 8SF61	: - h0F62	: - 02FhS	: - 8- F01	SF24	I I b
Manganese	: : 72	- - 04F6h	- 461F- 6	- 4- SF28	- 422F11	1F28	I I b
Mol%bOenum	h471	6F- -	4F61	4Fh0	: F- S	10FS6	I I b
Mol%bOenum	h: 71	2F4S	2F- -	2F42	2F- 8	1F8:	I I b
Mol%bOenum	h671	2F: 0	2F6S	2F64	2F6S	1F2S	I I b
Mol%bOenum	h071	2F4h	2F- 6	2F2h	2F- 8	4F- 6	I I b
Mol%bOenum	h871	2F42	2F2h	2F- 6	2F- 6	2F6h	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	2- F16	2- F41	2- F1S	2- F2-	SF0S	I I b
PEosI Eorus	- 172	1- 2hF: 4	1144F: 1	12h8FS0	12: 0F- 0	0F80	I I b
Po&assAum	- h72	868- F- 6	80S0F- 6	86h: F10	86h: F- S	SF14	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				1S2		G
pelenAum	8271	- FS2	- F06	2F61	- F1-	18F04	I I b
pelenAum	0072	1: 8F82	1: 4F: 4	162F- 2	1: 8F: 6	2F46	I I b
pelenAum	0872	- SF86	- - F20	- 2F64	- 2F26	- F88	I I b
pAAqon	2871	264F1h	201F6S	260F4h	260F06	1F- h	I I b
pAver	1S071	SF- -	SF- 2	SF- 1	SF- 2	- F46	I I b
pAver	1Sh71	SF- :	SF- -	SF- 8	SF- :	6FhS	I I b
poOAum	2- 72	2S2F68	2S- F12	2SSF81	2S2F2S	SF61	I I b
p&ona&um	8671	8- F64	82F6h	81F00	82F0S	1F1-	I I b
p&ona&um	8871	80Fhh	84F06	84F44	8: F0-	2F2h	I I b
pulfur	- 471	72S1- F6S	72S1hF1h	72- 21F00	72118F1h		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S8		G
i EallAum	2S- 71	SF: 6	SF: 8	SF: h	SF: 8	2F: 6	I I b
i EallAum	2S: 71	SF: h	SF: :	SF: 6	SF: 0	4FSh	I I b
i An	11871	: F2S	: FS-	: F- S	: F18	2F64	I I b
i A&anAum	4071	: h4F42	: h- F66	: 8- Fh2	: hSF60	SFhh	I I b
UranAum	2- 871	4F: :	4F42	4F4S	4F46	1F8-	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	4SF. S	41F2:	- hF80	4SF. 4	1F0S	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				142		G
Y&&Aum	8h72				142		G
ZAnq	6672	- 4: F- 4	- - 8F. 2	- 44F- 4	- 42F04	1FS8	I I b
ZAqonAum	hS71	1F. h	1F. 8	1F62	1F6S	1F4h	I I b
ZAqonAum	h171	1F. 6	1F61	1F6S	1F. h	1F42	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1 4S8F- S	1 - - F56	1 - 1- F4-	1 - 2F26	SF- 2	I I b
c n&Amonh	12171	SF6	SF60	SF62	SF64	4F2S	I I b
c rsenAq	0 72	- %F1%	- %F 8	- %F58	- %F28	SF66	I I b
BarAum	1- 71	- 80F8-	4S- F0%	- %0F8-	- %6F48	2FS-	I I b
BarAum	1- 071	- 81F66	4S0F18	- %8F68	- % F84	- F28	I I b
BerhlIAum	%71	1F80	1F0%	1F04	1F8S	- F82	I I b
BAsmu&E	2S%71				111		G
BAsmu&E	2S%72				1S		G
BromAne	8171						ql s
RaOmAum	1S871	2F14	2F28	2F10	2F2S	- F 4	I I b
RaOmAum	1S671	7SF- 1	71F42	71F88	71F2S		I I b
RaOmAum	11171	1F8%	1P%6	2F11	1P%%	F0S	I I b
RalqAum	4- 71	261% F2%	20444F24	260 FS2	260%8F18	2F- -	I I b
RalqAum	4471	201S0F18	282S%F0-	206%2F60	2066%F86	1P%%	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 71						ql s
REIorAne	- 72						ql s
REromAum	272	2 F24	24F20	24F84	24F08	1P%	I I b
Robal&	%72	22FS1	21P%6	21F	21F84	1F16	I I b
RoI I er	6- 72	%2F6%	%, F84	%2FS8	%2F80	SP%6	I I b
t hsI rosAum	1 671						ql s
t hsI rosAum	1 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16 71				111		G
y olmAum	16 72				1S4		G
DnOAum	11 71				111		G
DnOAum	11 72				%%		G
Don	472	602- F- 0	S1%F62	1%F60	0 4F22	1F 0	I I b
Don	672	88- F- %	80%P%8	4 - 2F- 1	4- 1F8%	1F41	I I b
Don	072	6828F-	6 86F26	6- 14F86	6 06F4%	SF4	I I b
KrhI &on	8- 71						ql s
LeaO	2S671	% F00	%4F 6	%6F18	% F S	SF8%	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S071	%. P%0	%1P%.	%2FS8	%2F66	1F2-	I I b
LeaO	2S871	% F- 2	%. F66	%4F12	%4F- 0	SP%1	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1- 86%F86	1- 020F41	1- %. 6FS-	1- 844F44	SF00	I I b
Manganese	72	1 4SF-	1 S0P%S	1 1 P%6	1 21F4S	1F11	I I b
MolhbOenum	%471	0F12	0F62	0F 8	0F44	- F0	I I b
MolhbOenum	% 71	- F12	- F21	- F1	- F16	1F4%	I I b
MolhbOenum	%671	- F- S	- F0S	- F62	- F 4	P%.	I I b
MolhbOenum	%071	- F11	- F- S	- F1%	- F2S	2P%	I I b
MolhbOenum	%871	- F1-	- F22	- FS8	- F14	2F2	I I b
NeoChmAum	1 S71						ql s
NeoChmAum	1 S72						ql s
NAqkel	6S72	4 F0%	46F24	46FS6	46FS-	SF4%	I I b
PEosI Eorus	- 172	- - %P%4	- - 8F86	- 6- 1F81	- 1SF2S	- P%6	I I b
Po&assAum	- %72	0 84F 2	0 24F 1	00- %F8	0616F2%	1F46	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4 71				11S		G
pqanOAum	4 72				%8		G
pelenAum	8271	1F0-	1P%4	1F88	1F8	F66	I I b
pelenAum	0072	SF 6	44F0-	- 6P%8	44FS%	1 F4	I I b
pelenAum	0872	8F2	1SF11	%F28	%F21	1SF11	I I b
pAAqon	2871	22%F41	24SP%4	2- P%4	2- F4-	2F4	I I b
pAver	1S071	SF 4	SF6S	SF 0	SF 0	4F 8	I I b
pAver	1S%71	SF	SF62	SF %	SF %	6F46	I I b
poOAum	2- 72	2- 8F48	228F- 1	222P%S	22%P%S	- F44	I I b
p&ona&um	8671	1 4F84	16SF-	1 %F4	1 8F21	1F80	I I b
p&ona&um	8871	162F80	16 F6	16 F84	164F0%	1FS1	I I b
pulfur	- 471	71- F16	7041F6-	71164P%0	71S80F2		I I b
i erbAum	1 %71				112		G
i erbAum	1 %72				1S4		G
i EallAum	2S- 71	SF4	SF4-	SF44	SF44	1F6-	I I b
i EallAum	2S 71	SF4S	SF46	SF42	SF4-	6F6%	I I b
i An	11871	1F 0	1F0-	1F6	1F6	4F64	I I b
i A&anAum	4071	1S0F14	11SF88	1S0F0	1S8F %	1F8	I I b
UranAum	2- 871	2F 4	2F 4	2F 1	2F -	SF02	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69-	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	172	0SF- S	0SF2	0SFS0	0SF21	SF10	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				116		G
Y&&Aum	8%72				111		G
ZAnq	6672	- 6- F- 8	- 61F10	- 6- F0S	- 62F0	SF- 8	I I b
ZAqonAum	%S71	2F64	2F6%	2F0S	2F68	1F1S	I I b
ZAqonAum	%171	2F 1	2F 6	2F02	2F6S	4F16	I I b

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Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y h SF22	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdPP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	11: - 4UN6	114NJU1N	11: 26UJ6	11: 10USS	SU21	DDe
q5Tb n5%	12171	SU60	SU60	SU64	SU66	- US4	DDe
qpwr 5cd	0: 72	44U0S	4- UJS	4: US-	44U4	1U1	DDe
Bspcmb	1- : 71	2J2U06	2N1US1	206U4-	2N- U4S	2UJ0	DDe
Bspcmb	1- 071	2JNUN-	20JU6-	2NSU2	2N6U-	- U0N	DDe
Br p%PPmb	J71	1U64	1U6S	1U2	1UJ	- U04	DDe
Bcvb mTE	2SJ71				1S0		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1U0	1UN2	2U2S	1UNS	22UJ:	DDe
v sob cmb	1S671	7SU4	SU2-	7SU24	7SU12		DDe
v sob cmb	11171	1U6N	1U06	1U60	1U0S	2UJ1	DDe
v sPdcmb	4- 71	- - S16U01	- S0- 6U41	- 126SU6:	- 1601U26	- U00	DDe
v sPdcmb	4471	- - JSSU0:	- 2- : 1U00	- 2S: 1U0N	- 206NU1S	- US-	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- : 71						dDw
v EPmpc5r	- : 72						dDw
v Epmb cmb	: 272	1JU0-	1JUS:	1JU0	1JU4:	1UN1	DDe
v nesPT	: J72	2: UN2	2: U1S	2: U1:	2: U:	1UJ	DDe
v nDDr p	6- 72	N0U66	N4U6-	N6U2N	N6U1J	1U06	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				1S6		G
h nPb cmb	16: 72				1S6		G
t5ocmb	11: 71				1S4		G
t5ocmb	11: 72				1SS		G
tpn5	: 472	: 6621U6-	: - - 62U24	: 4- N: UJN	: 40NJUJ:	- US4	DDe
tpn5	: 672	: : S16U02	: 2N0: UJJ	: 41NSU2-	: 4S24U1	2USS	DDe
tpn5	: 072	: 0S: SU44	: - - 6: UJ:	: : S14U40	: : 14- U62	- UJ:	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	J: U0S	J1U2	J1U61	J2UNN	2U64	DDe

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Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JSU24	N0U1S	N0U0-	NNUJ6	1UWN	DDe
Lr so	2SN71	J- US6	NJU-6	NJUJ-	JSUW:	2U11	DDe
LdEcmb	671				J0		G
y sM5r wcmb	2472	1S104U4S	1S11SU21	1S1J0U4-	1S16SU6N	SU44	DDe
y s5Ms5r wr	: : 72	21SNUJN	2S4- UJJ	2SN2U10	2S00UJN	1U0	DDe
y nP%eor 5mb	J471	JU2S	JU1-	NUJ-	JUSN	1U6	DDe
y nP%eor 5mb	J: 71	4U6J	4UN	4U41	4U6	- U12	DDe
y nP%eor 5mb	J671	: U4-	: US:	: USN	: U1J	4US:	DDe
y nP%eor 5mb	J071	4U00	4U0S	4U6:	4U01	1U26	DDe
y nP%eor 5mb	JN71	4UWJ	4U66	4U-	4U0S	- UW0	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	: - U40	: 2UJ4	: - U6	: - U-	SU6-	DDe
8 EnwDEnpmw	- 172	2- S4U1N	2- 6- U2J	22- 6UJ1	2- S1U46	2U0:	DDe
8 nTswwcmb	- J72	420- UJ	4S26U4	41J- U10	4164U44	- US-	DDe
CEnocmb	1S- 71				1S2		G
CEnocmb	1S- 72				1S-		G
I ds5ocmb	4: 71				1S4		G
I ds5ocmb	4: 72				JJ		G
I r P 5cmb	N271	2U22	1U04	2USJ	2US2	12U0	DDe
I r P 5cmb	0072	- 0U2N	41U01	40U2:	42USN	11UW6	DDe
I r P 5cmb	0N72	0UJ0	NU04	NU11	NU20	4UJJ	DDe
I dcdn5	2N71	1JSU1S	1N2US6	1N1UJJ	1N4U02	2U-	DDe
I dgr p	1S071	SU01	SU6-	SU66	SU60	: UW6	DDe
I dgr p	1SJ71	SU0S	SU0S	SU0S	SU0S	SU62	DDe
I nocmb	2- 72	201U46	202UJN	204UJ6	20- U1-	SU64	DDe
I Tpn5Tcmb	N671	1: NU:	1: 1US4	14JU21	1: 2UJ-	- U24	DDe
I Tpn5Tcmb	NN71	164UW:	16SUSS	1: 6UN	16SU4N	2UJ	DDe
I mPmp	- 471	NN12U06	001SU2-	N166U1N	N22JU0-	6U0-	DDe
Ar pecmb	1: J71				1SN		G
Ar pecmb	1: J72				1S-		G
AEsPmb	2S- 71	SUJN	SU4S	SUJJ	SUJJ	2UJN	DDe
AEsPmb	2S: 71	SU4S	SUJN	SUJ6	SUJN	: U2S	DDe
Ad5	11N71	1UWJ	1UW2	1U01	1UW1	: US-	DDe
AdS5cmb	4071	J- UWJ	N: U1-	NNUJJ	NJUJ4	4UJ1	DDe
Rps5cmb	2- N71	- US-	2UW:	2U0J	2UWJ	4U46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9-S	&sTsFdP u sb r 9	S6JqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	62U-2	61U2N	61U-0	61U66	SUJ4	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				111		G
YTTpomb	NJ72				111		G
Zd5d	6672	2J6U4:	2JSUN4	2J- U2	2J- U6S	SUJ6	DDe
Zqpdn5omb	JS71	- USJ	- USS	2UJ1	- USS	2UJS	DDe
Zqpdn5omb	J171	- U1S	2UJN	2UN2	2UJ6	4U00	DDe

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LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	y0y9.S1	y06S.2S	yy11.4-	y92- .21	S.9S	ppm
Aotiu Ooh	12171	S.61	S.64	S.69	S.64	%0%	ppm
Aesboic	0%72	16.- S	1%21	1%Sy	1%%	4.29	ppm
BaeiNu	1- %71	29y.94	2yS.%6	290.02	29y.- 0	S.%1	ppm
BaeiNu	1- 071	2y- .00	2y%SS	2y1.y-	2y- .%0	S.%	ppm
BbehlliNu	y71	2.6S	2.6y	2.%4	2.61	2.yS	ppm
Bisu NtE	2Sy71				1S9		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	- .S2	- .S1	2.4-	2.92	11.y%	ppm
Uadu iNu	1S671	S.42	1.yS	- .%0	1.y6	9S.- 1	ppm
Uadu iNu	11171	1.4-	1.- y	1.- y	1.4S	1.0%	ppm
UalciNu	4- 71	2- - - S.1S	2296- .1-	2- 22%60	2- 1- y.6-	1.S6	ppm
UalciNu	4471	241- 2.y6	24- 02.- S	2- 010.yy	24S04.42	1.- 9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%272	14.S2	1- .9%	14.- %	14.S0	1.91	ppm
UOmalt	%y72	1S.- 4	1S.- S	1S.- 4	1S.- -	S.21	ppm
UOppbe	6- 72	29.S0	20.y%	29.44	29.1%	S.y2	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				1S9		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				1S6		G
IodiNu	11%72				y9		G
IeOo	%472	26S2- .4y	26469.6-	20S- y.40	26%1S.%	1.y2	ppm
IeOo	%672	26226.y0	2614%1%	2%9S- .2y	26S%9.40	S.96	ppm
IeOo	%072	24%14.%2	244y6.41	246- y.96	24%%S.26	S.- 2	ppm
KehptOo	9- 71						cps
Lbad	2S671	y4.%2	y2.6%	yS.90	y2.69	1.y0	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	yS.y1	yS.49	90.14	9y.%1	2.- 1	ppm
Lbad	2S971	y2.S4	y1.91	9y.6S	y1.1%	1.49	ppm
LitEiNu	671				yy		G
g avobsiNu	2472	6292.y%	6- 64.y-	6619.6-	6422.10	2.0-	ppm
g aovaobsb	%%72	%40.4S	%%6S.y0	%%9.1-	%%2.10	S.yy	ppm
g OhmdboNu	y471	2- .1S	22.9-	22.2y	22.04	1.91	ppm
g OhmdboNu	y%71	1.- 4	1.42	1.- %	1.- 0	- .2%	ppm
g OhmdboNu	y671	- .%	- .%6	- .66	- .%9	1.y2	ppm
g OhmdboNu	y071	1.1%	1.- 0	1.4S	1.- 1	1S.%1	ppm
g OhmdboNu	y971	1.44	1.20	1.- %	1.- %	6.- 0	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	2S.19	2S.%	21.Sy	2S.6S	2.22	ppm
PEOspEOeNs	- 172	22S- .y9	2- 10.16	2- 60.%1	22y6.22	- .6%	ppm
POtassiNu	- y72	% 4- .yy	% S%- 1	% - S.4%	% 26.%9	S.- 0	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				1S9		G
r caodiNu	4%72				y0		G
r blboiNu	9271	1.S6	1.%6	1.2%	1.2y	1y.4-	ppm
r blboiNu	0072	%S.42	4S.- S	%2.1-	40.62	1- .4-	ppm
r blboiNu	0972	1S.44	9.9S	9.26	y.16	12.- 0	ppm
r ilicOo	2971	21- .Sy	2S6.94	21S.6%	21S.1y	1.%S	ppm
r ilRbe	1S071	S.%	S.%	S.%2	S.%	1.26	ppm
r ilRbe	1Sy71	S.6S	S.%6	S.%%	S.%0	4.04	ppm
r OdiNu	2- 72	1%0.%1	1%4.4S	162.%y	1%9.10	2.61	ppm
r teOotiNu	9671	112.24	1Sy.1%	1S0.91	1Sy.0-	2.S0	ppm
r teOotiNu	9971	110.%2	112.S4	114.- 1	114.62	2.4S	ppm
r NfNe	- 471	71- 24.%0	7149- .y0	711%9.%9	71- 22.- 0		ppm
TbemiNu	1%y71				1S6		G
TbemiNu	1%y72				1S-		G
TEalliNu	2S- 71	S.22	S.26	S.21	S.2-	12.S0	ppm
TEalliNu	2S%71	S.21	S.2-	S.2S	S.22	0.1S	ppm
Tio	11971	- .16	- .2%	- .4S	- .20	- .9S	ppm
TitaoiNu	4071	162.29	16S.2%	162.69	161.04	S.91	ppm
F eaoiNu	2- 971	2.0-	2.00	2.62	2.01	2.yy	ppm

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Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%172	- 9.66	- 9.- -	- y.%9	- 9.96	1.69	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				11-		G
YtteiNu	9y72				1Sy		G
Zioc	6672	220.91	229.y6	2- S.- 2	22y.S-	S.%%	ppm
ZiecOoiNu	yS71	12.- y	12.S2	11.y0	12.1-	1.96	ppm
ZiecOoiNu	y171	12.24	12.S6	11.02	12.S1	2.2S	ppm

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	h0 2F41	h62SFh2	h0S2F4-	h0S1Fh2	SF -	l l b
cn&mon%	12171	SF61	SF6S	SF64	SF61	- F12	l l b
crwenAq	0J72	1JF2	1JFh0	1JF1h	1JF4	2F06	l l b
BsrAum	1- J71	2 - F62	26 F44	2 1F26	200F00	2Fh4	l l b
BsrAum	1- 071	2 4F 6	202FSS	2 4F00	2 SFJ4	2F64	l l b
Ber%BAum	h71	2FJJ	2F41	2FJS	2F4h	2FhS	l l b
BAumu&E	2Sh71				11S		G
BAumu&E	2Sh72				1SJ		G
BromAne	171						ql w
RsOmAum	1S 71	2F6J	2F2S	2FJ-	2F46	hFJ4	l l b
RsOmAum	1S671	1F1-	71F44	71F06	7SF6h		l l b
RsOmAum	11171	1F40	1F- 1	1F- J	1F-	JFh-	l l b
RsRqAum	4- 71	2- 1h- F00	221h4F00	2- 4SSF- J	22h2hF6-	2F 1	l l b
RsRqAum	4471	2- 0 F2-	2- 2S1F02	2- 12FJS	2- 6- SF 2	1FJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- J71						ql w
REPrAne	- J72						ql w
REromAum	J272	14FS1	1- F0	1- F6-	1- F 1	1F4S	l l b
RobsR&	Jh72	1SFJ0	1SF1S	1SFJ6	1SF41	2FJ4	l l b
Rol l er	6- 72	2 F6-	2 F4S	2 F1J	2 F4S	SF J	l l b
t %wl rowAum	1J671						ql w
t %wl rowAum	1J672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oPmAum	16J71				112		G
y oPmAum	16J72				1S6		G
DrOAum	11J71				11S		G
DrOAum	11J72				1SS		G
Don	J472	260 JFJ-	2014- FJh	26122Fh1	266 4FS1	1Fh4	l l b
Don	J672	26446F00	262- 1F40	26- 4JF60	26- 41F- S	SF41	l l b
Don	J072	24614F	24J64F6-	24- h1FJ1	24J2- F60	SF4	l l b
Kr%l &on	- 71						ql w
LesO	2S671	h- F62	hF4-	h2FJh	h1F	2F-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RAen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S071	0Fh2	6F12	hF2	0F00	1F 1	l l b
LesO	2S 71	hSF64	0F0h	hSF1h	hFJ4	1F02	l l b
LAEAum	671				1S1		G
MsgnewAum	2472	6- 00F 4	6- S2FS2	622JF- 2	6- S1F0-	1F21	l l b
Msngsnewe	JJ72	J62F1S	J4hF- 1	JJ2FSS	JJ4F40	1F22	l l b
MoP%bOenum	h471	22F- -	21F11	2- F1h	22F21	4F01	l l b
MoP%bOenum	hJ71	1F- J	1F- -	1F- J	1F- J	SF S	l l b
MoP%bOenum	h671	- FJh	- F-	- F 4	- F6S	6F-	l l b
MoP%bOenum	h071	1FJJ	1F- 2	1F4S	1F42	FS0	l l b
MoP%bOenum	h 71	1F44	1F- 0	1F- -	1F-	- Fh2	l l b
NeoO%mAum	1JS71						ql w
NeoO%mAum	1JS72						ql w
NAqkeP	6S72	2SF 6	2SF22	2SF- 4	2SF40	1F66	l l b
8 EowI Eoruw	- 172	220hF2	2- - SF41	22 6F2J	22h F6J	1F21	l l b
8 o&swwAum	- h72	J- 61F0h	J10JF- h	J2h F42	J20 FJ-	1F S	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S4		G
pqsnOAum	4J71				1S		G
pqsnOAum	4J72				h		G
pe?enAum	271	1F10	SF 2	1F60	1F22	- JF14	l l b
pe?enAum	0072	4SF04	JhFSJ	4SFJ-	46F00	22F04	l l b
pe?enAum	0 72	6F 1	hFSJ	F2S	FS2	14FSh	l l b
pAqon	2 71	2S0F- 0	2SSF16	216Fhh	2S F1	4FS6	l l b
pAer	1S071	SFJS	SF4h	SFJ1	SFJS	2F10	l l b
pAer	1Sh71	SFJ2	SFJS	SFJ	SFJ-	0Fh	l l b
poOAum	2- 72	166F4	1J6F14	16- F6-	162FS	- F2h	l l b
p&on&Aum	671	1S F- 0	1S- F4	1S F6J	1S6F 4	2F02	l l b
p&on&Aum	71	111FhS	1ShF1h	11JF41	112F16	2F0	l l b
pufur	- 471	712- SF01	716- JF60	71SJ6FJ6	71- S0F6J		l l b
i erbAum	1Jh71				112		G
i erbAum	1Jh72				1S4		G
i EsPAum	2S- 71	SF2-	SF1h	SF2-	SF21	11F20	l l b
i EsPAum	2SJ71	SF22	SF22	SF2-	SF22	2F J	l l b
i An	11 71	- F10	2Fh0	- FS1	- FSJ	- F44	l l b
i A&snAum	4071	161F06	1J4F6h	1JhF60	1J F01	2F2h	l l b
UrsnAum	2- 71	2F6h	2F6S	2F0S	2F66	2F1h	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J172	- hFJ-	- F1-	- F11	- FJh	2F1S	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				116		G
Y&&Aum	h72				11S		G
ZAnq	6672	226F- -	22hF01	224F6h	226Fh1	1F1-	l l b
ZAqonAum	hS71	12F21	11F01	12F26	12FS6	2FJ1	l l b
ZAqonAum	h171	12F 2	11FJJ	11Fh6	12F11	JF- J	l l b

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARminium	23O2	1J- 1.4J	1J74.2-	1969.72	1JJ7.OJ	- .9-	ppb
Antimony	1210 1	O.11	O.1-	O.14	O.1-	14.- 3	ppb
Arwenic	37O2	- .72	2.JJ	- .- 1	- .2-	1O.O9	ppb
Bsrium	1- 70 1	72.24	72.- 4	7- .JO	72.JO	1.67	ppb
Bsrium	1- 30 1	71.24	74.J9	7- .J9	7- .- 4	- .7-	ppb
BeryRRum	90 1	O.46	O.49	O.44	O.46	7.J6	ppb
Biwmuth	2O90 1				1O7		%
Biwmuth	2O9O2				1OO		%
Bromine	J10 1						cpw
Csdmium	1OJ0 1	O.7O	O.J2	O.7O	O.61	29.J9	ppb
Csdmium	1O60 1	0- .1J	0- .64	O2.13	0- .OO		ppb
Csdmium	111 0 1	O.2J	O.19	O.27	O.24	1J.- 1	ppb
CsRium	4- 0 1	4292.J4	4- 43.1O	4- 4J.32	4- 29.77	O.3-	ppb
CsRium	44 0 1	444- .69	4741.O1	4779.O9	4714.79	1.- 3	ppb
Csrbon	12 0 1						cpw
Csrbon	12O2						cpw
ChRrine	- 70 1						cpw
ChRrine	- 70 2						cpw
Chromium	72O2	2.64	2.32	- .O1	2.39	6.9O	ppb
CobsRR	79O2	1.9-	1.97	1.9J	1.97	1.4J	ppb
Copper	6- O2	7.42	7.4J	7.J3	7.79	4.47	ppb
Dywprowium	176 0 1						cpw
Dywprowium	176O2						cpw
Erbium	164 0 1						cpw
Erbium	164O2						cpw
GsdoRRnium	16O 0 1						cpw
GsdoRRnium	16O O2						cpw
HoRRnium	167 0 1				1O3		%
HoRRnium	167O2				1O1		%
Indium	117 0 1				1O6		%
Indium	117O2				96		%
Iron	74O2	4623.17	4311.O4	4937.1O	4331.1O	- .J1	ppb
Iron	76O2	4929.24	499J.OJ	7292.O6	7O3- .1-	- .JO	ppb
Iron	73O2	473- .J9	4631.33	4J9J.2J	4314.67	- .7-	ppb
Krypton	J- 0 1						cpw
Lesd	2O60 1	13.O3	13.6O	13.69	13.47	1.92	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.- 3	16.92	16.91	16.3-	1.J3	ppb
Lesd	2OJ01	16.9O	13.19	13.- 1	13.1-	1.2O	ppb
Lithium	601				97		%
Msgnewium	24O2	11J1.J1	1131.2-	129- .99	1217.6J	7.6O	ppb
Msngsnewe	77O2	1O4.O6	1O6.37	112.74	1O3.3J	4.O2	ppb
MoRybdenum	9401	4.4J	4.- 1	4.47	4.41	2.O6	ppb
MoRybdenum	9701	O.29	O.24	O.2J	O.23	J.73	ppb
MoRybdenum	9601	O.34	O.64	O.32	O.3O	3.J9	ppb
MoRybdenum	9301	O.2O	O.29	O.2J	O.26	13.J2	ppb
MoRybdenum	9J01	O.2J	O.29	O.24	O.23	1O.22	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	- .J2	4.11	- .91	- .97	- .3O	ppb
8howphoruw	- 1O2	- J2.6-	- 47.- J	- 7- .O2	- 6O.- 4	7.46	ppb
8otswwium	- 9O2	994.7O	992.97	1O67.96	1O13.JO	4.1O	ppb
Rhodium	1O- 01				1O-		%
Rhodium	1O- 02				99		%
Scsndium	4701				1O-		%
Scsndium	47O2				94		%
SeRenium	J201	0O.1-	0O.7J	0O.- 2	0O.- 7		ppb
SeRenium	33O2	1- .- 9	11.9J	12.J6	12.34	7.7J	ppb
SeRenium	3JO2	1.- 6	2.O-	- .- J	2.26	47.6-	ppb
SiRcon	2J01	- J.67	- J.J2	4O.43	- 9.- 1	2.77	ppb
SiRver	1O301	O.11	O.11	O.1O	O.1O	2.22	ppb
SiRver	1O901	O.12	O.11	O.11	O.11	4.93	ppb
Sodium	2- 02	29.33	2J.3O	- 6.22	- 1.76	12.J9	ppb
Strontium	J601	2O.- -	21.27	21.29	2O.96	2.79	ppb
Strontium	JJ01	2O.- 6	2O.96	2O.J4	2O.32	1.7-	ppb
SuRfur	- 401	02OJ9.O6	02- 2O.O9	022J7.J9	022- 1.6J		ppb
Terbium	17901				1O3		%
Terbium	17902				1OO		%
ThsRium	2O- 01	O.O6	O.OJ	O.O3	O.O3	14.31	ppb
ThsRium	2O701	O.O7	O.O6	O.O7	O.O7	3.4J	ppb
Tin	11J01	O.7-	O.72	O.64	O.73	11.24	ppb
Titsnium	4301	29.4-	29.J6	29.91	29.34	O.JJ	ppb
Ursnium	2- J01	O.7O	O.72	O.72	O.71	2.39	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CIrent Ssmpre ID :	MHOF2- L	DirRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	3.44	3.44	3.J1	3.76	2.J4	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1O6		%
Yttrium	J90l2				93		%
Zinc	660l2	44.43	4- .2O	46.46	44.31	- .6J	ppb
Zirconium	9O0l	2.- -	2.- 4	2.42	2.- 6	2.O7	ppb
Zirconium	910l	2.19	2.- 9	2.46	2.- 7	7.J3	ppb

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	11814F52	11 h F1S	118- 8F2h	1180SF4h	SF6h	I I b
c n&Amon%	12171	1 F6S	1 F10	1 F58	1 F28	1F46	I I b
c rsenAq	0h72	2- F88	24F8S	26F58	24F 2	4F4-	I I b
BarAum	1- h71	024F 4	01SF21	018F0S	010F h	1F5-	I I b
BarAum	1- 071	0 SF -	0h6F11	06 F16	002F50	2F28	I I b
Ber%lAum	71	1- Fh4	1- F4-	12F 4	1- F- 1	2F-	I I b
BAsmu&E	2S 71				11S		G
BAsmu&E	2S 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	11Fh	1SF4h	11F11	11F5h	hF10	I I b
RaOmAum	1S671	hF86	0F- 6	8F8-	0F- h	2SF22	I I b
RaOmAum	11171	11F00	11F62	11F64	11F68	SF0-	I I b
RalqAum	4- 71	264SSF64	26h22Fh1	2h12hF 6	26S16F- 0	2F 0	I I b
RalqAum	4471	20- 1hF0S	206 F h	2h646F64	26880F4-	4F56	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	h F 8	61F4S	6SF4	6SF62	1F1	I I b
Robal&	h 72	12- F- h	124F88	12- F01	12- F 8	SF64	I I b
RoI I er	6- 72	8hF4	86F68	80F54	86F41	SF 4	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S8		G
y olmAum	16h72				1Sh		G
DnOAum	11h71				1S8		G
DnOAum	11h72						G
Don	h472	- S246Fh1	- S 14F86	- S 4SF 1	- S0SSF06	1F28	I I b
Don	h672	- S2- 1F12	- S2- 1F24	- Sh- SF18	- S- - SF8h	SFh0	I I b
Don	h072	28288Fh	28644F1h	2861SF58	28h14F28	SF6	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S6Fhh	1ShF42	1S- F11	1ShF52	1F60	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
LeaO	2S071	1S2F4-	F60	8F10	1SSFS	2F16	I I b
LeaO	2S871	1S- FnS	1S2F- 1	1S2F- 4	1S2F01	SF66	I I b
LA&EAum	671				0		G
MagnesAum	2472	0224Fn0	02hhFn	02 6FS2	02h8F0-	SF4	I I b
Manganese	hh72	0- F61	0h- F8	040F02	040FS0	SF 6	I I b
Mol%bOenum	471	24F 2	2hF41	2- F60	24F60	- F6h	I I b
Mol%bOenum	h71	1F48	1F- 6	1F41	1F42	4FS4	I I b
Mol%bOenum	671	- F86	- F 1	- F84	- F80	SF8	I I b
Mol%bOenum	071	1F48	1F- -	1F-	1F4S	hF46	I I b
Mol%bOenum	871	1F- h	1F41	1F4-	1F4S	- F12	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	14- F- 4	144F4h	144F86	144F22	SFnh	I I b
PEosI Eorus	- 172	24- - F21	26S8F 4	2h28F22	2h2- F46	- F4	I I b
Po&assAum	- 72	6SS6F14	6100F60	6Sh- FS8	6S08F 0	1F46	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4h71				1S0		G
pqanOAum	4h72				0		G
pelenAum	8271	1 F 2	1 F04	18F06	1 F48	- F22	I I b
pelenAum	0072	0SF- S	08FS2	0SF0-	0- FS2	hF 4	I I b
pelenAum	0872	28F- 1	- - FSh	28FnS	2 F h	8F 6	I I b
pAAqon	2871	261FS0	2h1F -	2- hF0h	24 Fn8	hF14	I I b
pAver	1S071	FS4	8F86	8F0S	8F86	1F 2	I I b
pAver	1S 71	FS	8F88	FSS	8F	1F16	I I b
poOAum	2- 72	2- 6Fnh	2h2F6	2- SFn0	2- F 4	4F00	I I b
p&onA&um	8671	126FS	11 F1	121F82	122F- 0	2F84	I I b
p&onA&um	8871	1- 1F6S	128F- 2	12hF- S	128F4S	2F4h	I I b
pulfur	- 471	7 08FS-	71S- SF22	7142hF2S	71144F48		I I b
i erbAum	1h 71				11S		G
i erbAum	1h 72				1S4		G
i EallAum	2S- 71	8F8	8F61	8F46	8F6h	2F4	I I b
i EallAum	2Sh71	8F 0	8F81	8F64	8F81	1F86	I I b
i An	11871	4F14	4FS1	4F2S	4F12	2F4h	I I b
i A&anAum	4071	181F02	1 2F1-	10- F14	182F- -	hF22	I I b
UranAum	2- 871	- FS2	2F 4	2F 8	2F 8	1F42	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
VanaOAum	h172	1hhF88	1h0F	1h0F86	1h0F24	SF0h	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8 71				114		G
Y&&Aum	8 72				11S		G
ZAnq	6672	4h F61	401F60	408F11	46 F8S	2FSS	I I b
ZAqonAum	S71	14FS6	1- F4-	1- F1S	1- Fh-	- Fh0	I I b
ZAqonAum	171	14FS4	1- F 1	1- F- 4	1- F00	2F01	I I b

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	11yyh.- 2	1y0S2.hh	12S2h.yS	1- Sh0.20	10.- 2	ppm
Aotiu Oo%	12171	S.42	S.41	S.44	S.42	- .4y	ppm
Aeaboic	0y72	11.P-	16.PS	1- .y-	14.Sy	10.h0	ppm
BJeiNu	1- y71	2hh.2S	- S1.06	- S6.4h	- S2.4P	1.22	ppm
BJeiNu	1- 071	- S- .4y	- S- .2h	- S2.Sh	- S2.h4	S.2y	ppm
Bbe%wiNu	h71	- .4y	- .20	- .4-	- .- P	2.h0	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				h6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.P0	1.yP	1.hP	1.P1	11.6y	ppm
UJdu iNu	1S671	7S.12	S.10	1.PS	S.61	16P.Py	ppm
UJdu iNu	11171	1.S1	1.1-	1.S0	1.S0	y.06	ppm
UJwiNu	4- 71	12hP1.4P	1206S.4h	1- S1- .SP	12h1P.- y	1.S0	ppm
UJwiNu	4471	1- - y2.41	1- Sh- .4y	1- 40P.P2	1- - SP.2-	1.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	16.h-	2- .- -	10.S4	1h.1S	1h.16	ppm
UOmJw	yh72	11.y4	1y.y4	12.S1	1- .S-	16.0h	ppm
UOppbe	6- 72	- - .SP	4- .0y	- 4.- 4	- 0.S6	1y.04	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOwoiNu	16S71						cpa
HJdOwoiNu	16S72						cpa
MOw iNu	16y71				111		G
MOw iNu	16y72				h6		G
IodiNu	11y71				1S0		G
IodiNu	11y72				h1		G
IeOo	y472	2h42- .42	- Py02.- 2	- S016.6S	- 2hS4.11	1y.Sy	ppm
IeOo	y672	2h1- 0.02	- h2P4.64	2hP- 0.61	- 20y- .- 2	10.- S	ppm
IeOo	y072	201yy.6h	- 6122.h0	2PSS4.6S	- S420.0y	16.20	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	P0.y2	Ph.Py	P4.y-	P0.- S	- .Sy	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	P4.y6	P4.P1	PS.00	P- .- P	2.02	ppm
LbJd	2SP71	Py.02	P0.- -	P2.Ph	Py.- 2	2.6-	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	y- P- .- y	0- 4y.2P	y640.06	612y.40	10.- P	ppm
g JovJobab	yy72	yyh.60	04y.y-	y0h.14	62P.11	16.26	ppm
g O%mdboNu	h471	14.6S	14.- h	14.y0	14.y2	S.0h	ppm
g O%mdboNu	hy71	S.h6	1.S1	1.S1	1.SS	- .S4	ppm
g O%mdboNu	h671	2.4y	2.y6	2.44	2.4P	2.6h	ppm
g O%mdboNu	h071	S.hh	1.S6	1.SP	1.S4	4.4-	ppm
g O%mdboNu	hP71	S.hh	1.SP	1.S2	1.S-	4.0-	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	2S.- P	2P.46	21.h4	2- .yh	1P.10	ppm
I EOapEOeNa	- 172	1624.Py	21- 6.2y	14P0.12	104h.41	1h.yy	ppm
I OtJaaiNu	- h72	4S14.46	y- 16.2S	4SP4.6-	4401.06	16.- 0	ppm
n EOdiNu	1S- 71				1SP		G
n EOdiNu	1S- 72				hy		G
r cJodiNu	4y71				1SP		G
r cJodiNu	4y72				Ph		G
r bwboiNu	P271	1.4P	1.12	1.12	1.24	16.P1	ppm
r bwboiNu	0072	40.yh	0h.- 1	62.h2	6- .20	2y.S0	ppm
r bwboiNu	0P72	1S.6P	10.42	11.1y	1- .SP	2P.0-	ppm
r iwcOo	2P71	1h0.yy	1hy.h4	1h0.- -	1h6.h4	S.44	ppm
r iwRbe	1S071	S.62	S.66	S.62	S.6-	- .- h	ppm
r iwRbe	1Sh71	S.64	S.60	S.6P	S.60	- .Sh	ppm
r OdiNu	2- 72	1y- .66	2- 0.yh	16- .0-	1P4.hh	24.00	ppm
r teOotiNu	P671	11- .60	116.y2	116.0h	11y.66	1.yS	ppm
r teOotiNu	PP71	11h.66	12y.S2	12- .S2	122.y0	2.21	ppm
r NwNe	- 471	721S6.40	722yS.1y	72SyP.y4	721- P.- h		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				h6		G
TEJwiNu	2S- 71	S.- 1	S.- 6	S.20	S.- 1	1- .hh	ppm
TEJwiNu	2Sy71	S.- 2	S.- -	S.2h	S.- 1	y.06	ppm
Tio	11P71	4.- -	4.- h	4.yy	4.42	2.yy	ppm
TitJoiNu	4071	1y2.4h	140.46	1yS.04	1yS.2-	1.0S	ppm
FeJoiNu	2- P71	- .- 1	- .41	- .24	- .- 2	2.yP	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- P.- 2	yS.yh	- P.0-	42.yy	16.- h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				114		G
YtteiNu	Ph72				1S-		G
Zioc	6672	1h1.Sy	26y.- 1	2S- .h4	22S.1S	1P.S-	ppm
ZiecOoiNu	hS71	0.hS	0.Ph	0.P2	0.P0	S.y4	ppm
ZiecOoiNu	h171	0.6P	P.S2	0.yy	0.0y	- .12	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	2072	121SPFn4	110PhF42	11h14F26	11h- 0Fn4	1F- n	ppm
Aotiu Oo%	12171	1F1-	SFnS	1FS1	1FS1	11Fnh	ppm
Aeaboic	0n72	1- FS6	12F1h	12F- 1	12Fn2	- F0n	ppm
BJeiNu	1- n71	- 66FP2	- S4Fn0	- SSFPP	- 24F22	11F4S	ppm
BJeiNu	1- 071	- 0SFPh	- S2F0P	- SSFn-	- 24FP0	12F20	ppm
Bbe%wiNu	h71	1F64	1F44	1F- -	1F40	1SF6S	ppm
Biau NtE	2Sh71				hP		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
RJdu iNu	1SP71	2Fn6	2F1h	- F20	2FP1	1hFPn	ppm
RJdu iNu	1S671	SF0h	7SF16	72FSP	7SF4P		ppm
RJdu iNu	11171	- FSh	2F60	2F4-	2F0-	12F2h	ppm
RJwciNu	4- 71	12664FS4	1Sn62FnS	hP41F61	11S22F02	1- F- S	ppm
RJwciNu	4471	1- S42F06	11SS- F62	1S2S6Fh2	11410F00	12FP1	ppm
RJemOo	1271						cpa
RJemOo	1272						cpa
REwOeiob	- n71						cpa
REwOeiob	- n72						cpa
REeOu iNu	n272	2PF1-	20F- h	20F44	20F66	1FnS	ppm
ROmJwv	nh72	PF6h	PFnP	PFnn	PF61	SFP-	ppm
ROppbe	6- 72	41FSP	- hF6S	- hFPh	4SF1h	1Fn6	ppm
D%apeOaiNu	1n671						cpa
D%apeOaiNu	1n672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
y Ow iNu	16n71				h0		G
y Ow iNu	16n72				1S6		G
IodiNu	11n71				h0		G
IodiNu	11n72				hh		G
IeOo	n472	2n004F2n	2n20nFSS	24PPSFhn	2n- 1SFS0	1F00	ppm
IeOo	n672	2n162F60	24n24F02	241S6FP0	24nhPFSh	2F16	ppm
IeOo	n072	2- Sh1F06	22h- 0F- S	2260SF- 0	22PhhFP1	SFn-	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21PF41	104F2P	16hF60	1P0F4n	14F- 6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
LbJd	2S071	211F1P	160F61	16- Fn6	1PSF0P	14F61	ppm
LbJd	2SP71	222FPP	1PSF4P	102Fn4	1h2F1S	14FS1	ppm
LitEiNu	671				hS		G
MJgobaiNu	2472	- 2- - Fnh	- 1- 6F04	- 16nF4h	- 10PF04	1Fn0	ppm
MJogJobab	nn72	0nnFn4	040FPn	042F1P	04PF66	SFn2	ppm
MO%mdboNu	h471	nF0S	4FPP	4F46	nFS1	12F6S	ppm
MO%mdboNu	hn71	1FP0	1F01	1F4P	1F6h	11F4-	ppm
MO%mdboNu	h671	2F24	1Fn0	1Fn4	2FSn	PF24	ppm
MO%mdboNu	h071	2F11	1F64	1F6P	1FP1	14F- h	ppm
MO%mdboNu	hP71	1FPh	1Fn4	1Fn6	1F66	11Fn0	ppm
8 bOd%u iNu	1nS71						cpa
8 bOd%u iNu	1nS72						cpa
8 ickbw	6S72	16FPS	16F2S	1nFn-	16F1P	- Fn-	ppm
I EOapEOeNa	- 172	2- - - F42	224PF24	22S6FnP	2262F04	2FP6	ppm
I OtJaaiNu	- h72	41hPFn6	41- 4F- 1	4120FS4	41n- F- S	SFnn	ppm
5 EOdiNu	1S- 71				h6		G
5 EOdiNu	1S- 72				1S4		G
r cJodiNu	4n71				hn		G
r cJodiNu	4n72				hn		G
r bwboiNu	P271	1F2S	SFn0	SFP1	SFnh	1hF0P	ppm
r bwboiNu	0072	- PF2n	24FP1	4- F04	- nF6S	20F- n	ppm
r bwboiNu	0P72	6FP-	nF20	0Fn4	6Fnn	10F0-	ppm
r iwcOo	2P71	1hSF- n	1n6F60	140F- S	164F00	1- F04	ppm
r iwbe	1S071	2F0-	2F2P	2F10	2F- h	12F- S	ppm
r iwbe	1Sh71	2F66	2F2-	2F2h	2F- h	hF6S	ppm
r OdiNu	2- 72	144F4n	1- 4FS0	142Fnn	14SF4h	- Fnh	ppm
r teOotiNu	P671	1nPFP1	12PF42	12nF0n	1- 0F66	1- F- 4	ppm
r teOotiNu	PP71	102F2S	1- 4F20	1- SF46	14nF64	1nFPn	ppm
r NwNe	- 471	hn1Fnn	71S- nFn4	710S- FSn	7nhnF6P		ppm
TbemiNu	1nh71				hP		G
TbemiNu	1nh72				1S4		G
TEJwiNu	2S- 71	SF- 1	SF20	SF20	SF2P	hF62	ppm
TEJwiNu	2Sn71	SF- S	SF22	SF2n	SF26	1nF62	ppm
Tio	11P71	0F0n	6F- 2	6F12	6F0-	1- F2n	ppm
TitJoiNu	4071	2S- FPP	160F6n	1n4FP-	10nF4n	14FnS	ppm
UeJoiNu	2- P71	2FnS	2F- S	2F2-	2F40	14F0h	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n172	4nF06	44F4n	4nF41	4nF21	1F4h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				1S1		G
YtteiNu	Ph72				1S4		G
Zioc	6672	- nPf64	- nnF40	- n- FP1	- nnFh0	SF6h	ppm
ZiecOoiNu	hS71	2F- P	1Fnh	1FP-	2FS0	1- Fh1	ppm
ZiecOoiNu	h171	2FnP	1FPh	1FP0	2F11	1hFSS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1S148F89	h8hhF9S	h94SFh0	h86- F11	- F1S	I I b
c n&Amon%	12171	SF99	SF94	SF92	SF9-	2F02	I I b
c rsenAq	0972	11FS4	1SFh0	1SFS8	1SF0S	9FS-	I I b
BarAum	1- 971	22- F- 1	21- F28	221F9S	21hF- 6	2F44	I I b
BarAum	1- 071	22SF- 6	211Fh-	22- F99	218F61	2F09	I I b
Ber%lAum	h71	1FS2	1FS0	1F11	1FS0	4F1h	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F09	1Fh6	2F09	2F19	24F- 2	I I b
RaOmAum	1S671	72F6S	72F62	7SF1h	71FBS		I I b
RaOmAum	11171	2F41	2FS2	2F20	2F2-	8FB9	I I b
RalqAum	4- 71	6242Fh0	6111F68	6100F02	6100F46	1FS6	I I b
RalqAum	4471	6664F92	64- 6FS0	6444F2h	6914Fh6	1Fhh	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	2- F4h	22Fh2	22F6h	2- FS-	1F08	I I b
Robal&	9h72	0F40	0F19	0FS0	0F2-	2Fh-	I I b
RoI I er	6- 72	2hFBh	2hF44	28F0-	2hF- 9	2FSS	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S6		G
y olmAum	16972				1S4		G
DnOAum	11971				1S6		G
DnOAum	11972				h8		G
Don	9472	18h1hF28	10h26F60	10646FS0	18164FS1	- F68	I I b
Don	9672	1h842FB6	1h911F4S	1882hFS2	1h- h4F42	2F60	I I b
Don	9072	18- 89F6S	1816SFS-	10410F21	10h80F61	2FB2	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	194F99	14hFS2	19- FB8	192F4h	1Fh8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	148F- 6	149F59	140F29	146F8h	1F14	l l b
LeaO	2S871	161F- 4	196F50	198F99	198F69	1F66	l l b
LA&EAum	671				h8		G
MagnesAum	2472	224hF65	22S1F42	2Sh0F45	2182F81	- F96	l l b
Manganese	9972	0hSF62	06- F46	049F1-	066F45	2Fhh	l l b
Mol%bOenum	h471	- F42	- F44	- F4h	- F49	SFh8	l l b
Mol%bOenum	h971	SFhh	1F55	1F59	1F51	- F1-	l l b
Mol%bOenum	h671	1F18	1F20	1F- S	1F29	4Fhh	l l b
Mol%bOenum	h071	1F59	SFh1	SFh4	SFh0	0F08	l l b
Mol%bOenum	h871	SFhh	SF88	SFh4	SFh4	9F96	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	16F52	19F- 4	19F26	19F94	2F05	l l b
PEosI Eorus	- 172	1- h0F94	1289F90	1189FhS	128hF60	8F21	l l b
Po&assAum	- h72	2994F04	2918F91	2- 0hF06	2484F- 4	- F02	l l b
5 EoOAum	1S- 71				1S4		G
5 EoOAum	1S- 72				1S4		G
pqanOAum	4971				1S9		G
pqanOAum	4972				h9		G
pelenAum	8271	SF6S	SFhh	SF01	SF06	26F9S	l l b
pelenAum	0072	- 4F42	- 0F41	22F40	- 1F4-	29F19	l l b
pelenAum	0872	- Fh9	9F46	4F- 2	4F98	10F2S	l l b
pAAqon	2871	2ShF91	2S2F89	2S0F16	2S6F9S	1F64	l l b
pAver	1S071	1F89	1F88	1Fh6	1FhS	- F5S	l l b
pAver	1Sh71	1Fh0	1Fh-	2F5-	1Fh0	2F40	l l b
poOAum	2- 72	1h6F66	18hF68	182F5h	18hF48	- F84	l l b
p&ona&um	8671	86F88	86F89	88F98	80F44	1F1-	l l b
p&ona&um	8871	80Fh9	89F4-	80F98	86Fhh	1F96	l l b
pulfur	- 471	72298F- 0	720h2F9S	72409F89	729S8FhS		l l b
i erbAum	19h71				1S6		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF1h	SF2S	SF22	SF2S	8F10	l l b
i EallAum	2S971	SF18	SF1h	SF18	SF1h	- F9-	l l b
i An	11871	4F59	- Fh9	4F56	4F52	1F94	l l b
i A&anAum	4071	1S1F9S	1SSF14	1S2F80	1S1F9S	1F- 4	l l b
UranAum	2- 871	1F09	1F01	1F0-	1F0-	1F24	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	- 0F14	- 4F96	- - FhS	- 9F2S	4F86	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S0		G
Y&&Aum	8h72				1S1		G
ZAnq	6672	284F10	206Fh9	20SF91	200F21	2F40	l l b
ZAqonAum	hS71	1F44	1F49	1F46	1F49	SF9-	l l b
ZAqonAum	h171	1F9-	1F94	1F42	1F4h	4F49	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1S161.- -	1S1yS.0P	1S214.Sy	1S1PP.0-	S.26	ppm
Aotiu Ooh	12171	S.4-	S.4%	S.4S	S.4-	6.6y	ppm
Aeaboic	0%72	P.P6	y.46	P.y1	y.SP	- .6P	ppm
BJeiNu	1- %71	240.- 2	242.S6	216.0P	2- %- y	6.y4	ppm
BJeiNu	1- 071	2%S.01	242.0y	222.1S	2- P.%	6.1y	ppm
BbehwiNu	y71	1.1P	1.16	1.S%	1.1-	%y1	ppm
Biau NtE	2Sy71				11%		G
Biau NtE	2Sy72				1S%		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6y	2.S4	1.20	1.60	22.y6	ppm
UJdu iNu	1S671	71.4y	7- .01	72.12	72.44		ppm
UJdu iNu	11171	1.62	1.%P	1.%2	1.%0	- .S1	ppm
UJwiNu	4- 71	2141%2-	2124P.%0	1P%2P.22	2S- y0.- 4	0.y%	ppm
UJwiNu	4471	22S02.yS	221y%41	1ySPS.PP	21116.4S	P.- %	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- %71						cpa
UEwOeiob	- %72						cpa
UEeOu iNu	%272	2- .1y	2- .11	2- .y4	2- .42	1.y0	ppm
UOmJwv	%y72	P.1S	P.2-	P.12	P.1%	S.PP	ppm
UOppbe	6- 72	2y.22	2y.PS	- S.1%	2y.02	1.%P	ppm
DhapeOaiNu	1%671						cpa
DhapeOaiNu	1%672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiioiNu	16S71						cpa
HJdOiioiNu	16S72						cpa
MOw iNu	16%71				116		G
MOw iNu	16%72				1S4		G
IodiNu	11%71				11%		G
IodiNu	11%72				yy		G
IeOo	%472	1yy44.6y	1yPP1.S6	2S4- 6.- %	2SSP0.- 0	1.%l	ppm
IeOo	%672	1y024.y4	1y%%P.- 0	2SS%%10	1y00y.4y	1.2P	ppm
IeOo	%072	1P610.06	1P4%2.y2	1P060.0%	1P612.P1	S.P%	ppm
KehptOo	P- 71						cpa
LbJd	2S671	04.0%	02.1P	66.12	01.S1	6.24	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	02.14	6y.%l	62.- -	60.yy	0.40	ppm
LbJd	2SP71	0- .62	0S.4y	64.2-	6y.4%	6.PP	ppm
LitEiNu	671				1S1		G
g JvobaiNu	2472	%06- .Sy	%Py1.PS	%P0P.- %	%P44.41	1.21	ppm
g JovJobab	%%72	420.21	42y.20	4- 2.%l	42y.66	S.62	ppm
g OwmdboNu	y471	4.46	4.- 0	4.S4	4.2y	%SP	ppm
g OwmdboNu	y%71	S.yS	S.PP	S.06	S.P%	P.01	ppm
g OwmdboNu	y671	1.- -	1.20	1.S4	1.21	12.4-	ppm
g OwmdboNu	y071	S.yP	S.y2	S.0%	S.PP	1- .- 0	ppm
g OwmdboNu	yP71	S.P6	S.P4	S.0P	S.P-	4.P%	ppm
8 bOdhu iNu	1%S71						cpa
8 bOdhu iNu	1%S72						cpa
8 ickbw	6S72	16.P0	16.P2	10.%	10.S0	2.- 1	ppm
I EOapEOeNa	- 172	2%6.P1	2600.- -	24y2.y1	2%6y.S2	- .0%	ppm
I OtJaaiNu	- y72	%2S0.62	%14y.- 0	%2PS.y4	%212.64	1.26	ppm
n EOdiNu	1S- 71				112		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4%71				112		G
r cJodiNu	4%72				y6		G
r bwboiNu	P271	S.PP	S.%6	1.14	S.P6	- 4.20	ppm
r bwboiNu	0072	1y.- 2	20.1-	- 1.6S	26.S1	2- .Py	ppm
r bwboiNu	0P72	6.P1	6.2S	0.S-	6.6P	6.- y	ppm
r iwcOo	2P71	14P.11	146.%P	126.- -	14S.- 4	P.66	ppm
r iwRbe	1S071	S.4y	S.4-	S.44	S.46	0.42	ppm
r iwRbe	1Sy71	S.4P	S.46	S.44	S.46	4.- 4	ppm
r OdiNu	2- 72	1%P.04	1%.0%	1%4.4S	1%%6-	1.0%	ppm
r teOotiNu	P671	22S.6P	22S.yy	1Py.11	21S.26	P.01	ppm
r teOotiNu	PP71	2- - .2S	226.%y	1y6.42	21P.0-	P.y6	ppm
r NwNe	- 471	71Py6.- 2	71P00.1-	720y4.%2	721Py.- -		ppm
TbemiNu	1%y71				11%		G
TbemiNu	1%y72				1S4		G
TEJwiNu	2S- 71	S.2%	S.21	S.1y	S.21	1%Sy	ppm
TEJwiNu	2S%71	S.24	S.21	S.10	S.21	16.4-	ppm
Tio	11P71	2.%2	2.4P	2.1P	2.- y	0.y1	ppm
TitJoiNu	4071	1S0.04	1Sy.%	y0.%S	1S4.y-	6.1y	ppm
F eJoiNu	2- P71	2.22	2.16	1.y6	2.12	6.4S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	%172	- S.y6	- 2.11	- 2.1y	- 1.0%	2.1P	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				116		G
YtteiNu	Py72				1S4		G
Zioc	6672	102.06	10P.- 4	10P.yP	106.6y	1.y4	ppm
ZiecOoiNu	yS71	2.1P	2.2S	1.P4	2.S0	y.00	ppm
ZiecOoiNu	y171	2.12	2.S6	1.y0	2.S%	- .%6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	112- S.Py	h6SS.2P	hh61.yP	1S264.24	P.- 4	ppm
Aotiu Oo%	12171	S.- h	S.- -	S.42	S.- P	11.P1	ppm
Aeaboic	0y72	11.- 0	h.y6	h.P-	1S.2y	h.yS	ppm
BJeiNu	1- y71	2- P.1-	2- P.- P	246.yh	241.S-	2.SS	ppm
BJeiNu	1- 071	244.00	2- P.hS	246.- 2	24- .- -	1.61	ppm
Bbe%wiNu	h71	1.16	1.1P	1.11	1.1y	- .1-	ppm
Biau NtE	2Sh71				1Sh		G
Biau NtE	2Sh72				1S-		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.y-	1.h-	1.2P	1.yP	2S.hS	ppm
UJdu iNu	1S671	S.1-	7- .- h	72.60	71.hP		ppm
UJdu iNu	11171	1.- 1	1.20	1.41	1.- -	y.2y	ppm
UJwiNu	4- 71	2S0hh.6P	2S444.y4	2Sh04.- S	2S0- h.y1	1.- S	ppm
UJwiNu	4471	212yP.14	2ShSS.04	21y01.1S	2124- .- -	1.yP	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEWeiob	- y71						cpa
UEWeiob	- y72						cpa
UEeOu iNu	y272	21.14	1P.1y	1P.02	1h.- 4	P.2-	ppm
UOmJw	yh72	P.4P	0.64	0.yh	0.hS	6.- 2	ppm
UOppbe	6- 72	26.6P	22.6-	2- .2S	24.10	h.S6	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S2		G
IodiNu	11y71				1SP		G
IodiNu	11y72				h6		G
IeOo	y472	2S- y- .6h	1021P.h0	104y- .44	1P- 42.S-	h.y2	ppm
IeOo	y672	2Sh41.0h	1P- S- .0S	1P0Sh.40	1h- 1P.- 2	0.- y	ppm
IeOo	y072	1h6h0.44	10Shh.P4	104SS.0-	1PS66.SS	0.P6	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	64.yy	64.22	64.y2	64.4-	S.2P	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	61.04	62.Sy	61.6P	61.P2	S.- 2	ppm
LbJd	2SP71	62.6y	62.y0	62.06	62.66	S.1y	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	4- 62.- y	- 00h.- -	- h2- .2-	4S21.64	0.yy	ppm
g JovJobab	yy72	4y0.6P	- hy.00	4Sy.- S	41h.yP	0.h4	ppm
g O%mdboNu	h471	- .P4	- .h2	4.2-	4.SS	y.14	ppm
g O%mdboNu	hy71	S.6y	S.0S	S.6h	S.6P	- .04	ppm
g O%mdboNu	h671	S.hh	1.1S	1.S4	1.S4	y.S-	ppm
g O%mdboNu	h071	S.0S	S.66	S.P4	S.0-	1- .10	ppm
g O%mdboNu	hP71	S.64	S.02	S.0S	S.6h	6.Sh	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	1y.Py	14.SS	14.2S	14.6P	6.h1	ppm
I EOapEOeNa	- 172	1- 00.P2	1SPy.- 2	1S- 6.Py	1166.66	1y.P1	ppm
I OtJaaiNu	- h72	- 62- .h-	- 1- h.4y	- 2- 6.04	- - - - .- 0	0.6h	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				1SS		G
r cJodiNu	4y71				1Sy		G
r cJodiNu	4y72				h2		G
r bwboiNu	P271	S.4S	S.00	S.6h	S.62	- S.h6	ppm
r bwboiNu	0072	2S.S0	2y.2y	22.h1	22.04	11.41	ppm
r bwboiNu	0P72	y.yh	4.21	4.6-	4.P1	14.02	ppm
r iwcOo	2P71	164.0-	162.0h	16P.16	16y.22	1.6y	ppm
r iwRbe	1S071	S.- 6	S.- h	S.- y	S.- 0	y.1P	ppm
r iwRbe	1Sh71	S.- h	S.- 0	S.- P	S.- P	2.y0	ppm
r OdiNu	2- 72	20y.hP	220.12	2- 0.Sy	246.02	1S.40	ppm
r teOotiNu	P671	2SP.00	2Sy.S0	2S- .hS	2Sy.h2	1.24	ppm
r teOotiNu	PP71	221.P0	212.y6	212.- 0	21y.6S	2.y2	ppm
r NwNe	- 471	7212P.0P	72- 46.P6	71P26.- -	721SS.66		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S1		G
TEJwiNu	2S- 71	S.2S	S.1P	S.21	S.2S	0.P2	ppm
TEJwiNu	2Sy71	S.2S	S.1h	S.2S	S.2S	1.S6	ppm
Tio	11P71	2.61	2.- 6	2.y1	2.4h	y.S6	ppm
TitJoiNu	4071	hS.S0	hS.1h	h2.16	hS.PS	1.2h	ppm
F eJoiNu	2- P71	1.2S	1.26	1.26	1.24	2.64	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- 4.P-	- S.60	- S.64	- 2.Sy	0.y-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1SS		G
Zioc	6672	14S.yh	11h.14	12S.6-	126.0h	h.4y	ppm
ZiecOoiNu	hS71	1.P4	1.P-	1.P2	1.P-	S.44	ppm
ZiecOoiNu	h171	1.h4	1.P1	1.0-	1.P-	y.hP	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdPP:u sb r :9	S0JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	1SN 4U64	1S - 4U6-	1S- JUN4	1S N- US-	2U0	DDe
q5Tb n5%	12171	SU-	SU44	SU4-	SU40	11U02	DDe
qpwr 5cd	0 72	16USN	1 U4S	14U0	1 U	4UJ	DDe
Bspcmb	1- 71	22 U01	104U06	10SUJ	1JSU	16U12	DDe
Bspcmb	1- 071	222U N	10NU-	102U1-	1JSUJ	14U	DDe
Br p%PPmb	J71	1U24	1US	1USS	1U1S	11U21	DDe
Bcwb mTE	2SJ71				11-		G
Bcwb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1UJ4	1U44	2U14	1UN4	1JU1	DDe
v sob cmb	1S671	71U2N	7SU4J	7- U1	71U64		DDe
v sob cmb	11171	2U20	1UN0	1U0	1UJ6	1- UJ2	DDe
v sPdcmb	4- 71	4041- U4	- 0664U2	- 6J4- UNS	4S60- UN6	14U N	DDe
v sPdcmb	4471	4N66- U61	- J- - - U2	- NS - U1J	42S16U00	1- U0N	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- 71						dDw
v EPmpc5r	- 72						dDw
v Epmb cmb	272	21UJJ	21U46	21U2S	21U	1UNN	DDe
v nesFT	J72	11U N	11U1J	11USN	11U2N	2U2	DDe
v nDDr p	6- 72	- 0U4J	- 6U41	- 6UN-	- 6UJ1	1U4N	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonR5cmb	16S71						dDw
HsonR5cmb	16S72						dDw
h nPb cmb	16 71				114		G
h nPb cmb	16 72				1S6		G
t5ocmb	11 71				111		G
t5ocmb	11 72				1SS		G
tpn5	472	2JS06U1-	2J- S0US1	2NN6SU61	2JSN1U2	SU00	DDe
tpn5	672	2J6J4U0-	2N6J0U-1	2N262U2-	2NNN4U06	2U4	DDe
tpn5	072	20 - U0J	20122U4N	26 - UJ4	20S06U04	1UN	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	- 0U2J	- SU2	2NUN	- 2U1-	14USN	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:u sb r :9	S0JqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- 4U J	2NU14	20U6	- SUS-	1- U21	DDe
Lr so	2SN71	- U S	2NUJ1	2NU	- SUJ2	12UN	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	2S02NUJ4	2S2- 2UJ	1J66NU4J	2S21SU1-	2U6-	DDe
y s5Ms5r wr	72	64JUN2	642U1	62 UJ2	6- JUS	1UJ1	DDe
y nP%eor 5mb	J471	4UJ-	4U0	4US2	4U44	1SU6	DDe
y nP%eor 5mb	J 71	1U N	1U-	1U6	1U42	JU66	DDe
y nP%eor 5mb	J671	1UJ0	1U0	1U 1	1U04	1- UN	DDe
y nP%eor 5mb	J071	1U62	1UN	1U22	1U41	14U42	DDe
y nP%eor 5mb	JN71	1U6-	1U22	1U1	1UJ	1 U	DDe
u r no%b cmb	1 S71						dDw
u r no%b cmb	1 S72						dDw
u dkr P	6S72	20UN6	26U06	26U	20US6	2U61	DDe
8 EnwDEnpmw	- 172	46- NU6	4N2NUN	4626UJS	46JNUS	2U41	DDe
8 nTswwcmb	- J72	4S- 6UJ1	- J60U4	- J- 1U61	- J0NU66	1U	DDe
CEnocmb	1S- 71				11S		G
CEnocmb	1S- 72				1S4		G
I ds5ocmb	4 71				1SJ		G
I ds5ocmb	4 72				J0		G
I r P 5cmb	N271	2U4S	2U11	1U0	2US2	2SUN6	DDe
I r P 5cmb	0072	20US1	- - UN	21U1N	20U1J	22U44	DDe
I r P 5cmb	0N72	0U6N	NU4-	6U0-	0U61	11U1J	DDe
I dBdn5	2N71	1J- U2N	142U20	1- 6UJN	1 0U1	1JU04	DDe
I dBr p	1S071	SU2N	SU24	SU22	SU2	11USJ	DDe
I dBr p	1SJ71	SUS	SU22	SU21	SU2	2SU4J	DDe
I nocmb	2- 72	1N4NU24	1N10UNS	100NUS-	1N14U6J	1UJ4	DDe
I Tpm5Tcmb	N671	42JUN2	- 2UNS	- - JU01	- 04U11	1- US1	DDe
I Tpm5Tcmb	NN71	4 2U14	- 61UN0	- 4JU66	- N0UNU	14U4-	DDe
I mPmp	- 471	2S1- USJ	74 - U26	701JU04	2NSUS-	- NUSN	DDe
Ar pecmb	1 J71				114		G
Ar pecmb	1 J72				1S4		G
AEsPBmb	2S- 71	SU2J	SU2	SU22	SU2	14U6	DDe
AEsPBmb	2S 71	SU20	SU21	SU2-	SU24	12UJN	DDe
Ad5	11N71	1US-	SUN1	SU0-	SUN6	1NU N	DDe
AdS5cmb	4071	1S1U4N	NSU0J	06U4N	N6U2	1 U4J	DDe
Rps5cmb	2- N71	NUJ1	6U0J	6U6-	0U2	12U00	DDe

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Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tusb r :9	8 N
v Rt 5TI sb DP:t&:9	y h SF- J	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:usb r :9	S0JqC. Fwb

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	172	44U1N	42US6	41U64	42U6-	- U2S	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11		G
YTTpomb	NJ72				1S		G
Zd5d	6672	206U0	201UN-	260U-1	201UJ6	1U04	DDe
Zqpdn5omb	JS71	2U16	1UN4	1UN-	1UJ4	JU	DDe
Zqpdn5omb	J171	2U10	1UN2	1U00	1UJ2	11U10	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1122y.60	1Sy06.- 1	1119y.- S	111- 1.06	1.22	ppm
Aotiu Ooh	12171	S.26	S.4S	S.- 2	S.- -	2S.%9	ppm
Aesboic	0%72	22.29	22.%9	2- .S6	22.64	1.0%	ppm
BaeiNu	1- %71	14S.99	1y9.1%	161.10	166.0-	10.42	ppm
BaeiNu	1- 071	14- .11	2S2.y6	16S.%4	169.90	19.2-	ppm
BbehlliNu	y71	1.29	1.69	1.- 9	1.4%	14.26	ppm
Bisu NtE	2Sy71				y0		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	1.1-	2.- 2	1.4%	1.6-	- 0.y4	ppm
Uadu iNu	1S671	7S.%y	72.- -	7S.9-	71.2%		ppm
Uadu iNu	11171	1.Sy	1.46	1.1-	1.22	16.62	ppm
UalciNu	4- 71	6626- .40	y0S%4.42	099yy.%S	9S0- y.1-	1y.10	ppm
UalciNu	4471	602- - .y1	y4999.6-	00S9%49	0y0- 6.S1	10.%9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%2772	1y.0y	1y.1-	1y.4%	1y.46	1.0S	ppm
UOmalt	%y72	14.%4	14.11	14.- S	14.- 2	1.49	ppm
UOppbe	6- 72	- %%0	- 4.00	- %%0	- %- 1	1.- 1	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				yy		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				y%		G
IodiNu	11%72				y9		G
IeOo	%472	- 0y04.10	- 0- 1S.12	- 09- y.16	- 00S0.92	S.y-	ppm
IeOo	%672	- 0142.6S	- 692%y4	- 0%14.- 6	- 016S.y0	S.y-	ppm
IeOo	%072	- 4y1%%S	- 420S.S6	- %S29.42	- 40- 0.yy	1.19	ppm
KehptOo	9- 71						cps
Lbad	2S671	- 9.9S	%%S%	44.20	46.S4	10.y6	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	- 0.S4	%1.6S	41.%%	4- .4S	10.10	ppm
Lbad	2S971	- 9.S9	% .69	42.yy	44.y2	10.06	ppm
LitEiNu	671				99		G
g avobsiNu	2472	10yS4.42	10606.94	1060S.00	100%S.60	S.0%	ppm
g aovaobsb	%%72	- %%6S	- 4y.9-	- %9.40	- %4.6-	1.24	ppm
g OhmdboNu	y471	1S.S9	1- .%S	11.6y	11.06	14.%0	ppm
g OhmdboNu	y%71	1.- y	1.9%	1.61	1.62	14.- -	ppm
g OhmdboNu	y671	2.22	- .S0	2.66	2.6%	16.S2	ppm
g OhmdboNu	y071	1.40	1.06	1.%	1.%y	y.%0	ppm
g OhmdboNu	y971	1.- y	1.90	1.6S	1.62	14.62	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	- 9.26	- 6.- 0	- 0.21	- 0.29	2.%%	ppm
PEOspEOeNs	- 172	1412.2-	14y4.%9	14S2.9S	14- 6.%	- .%1	ppm
POtassiNu	- y72	206- .21	266S.y1	2019.11	2014.S9	1.9y	ppm
n EOdiNu	1S- 71				y4		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				y%		G
r caodiNu	4%72				y6		G
r blboiNu	9271	2.11	1.0-	1.60	1.94	1- .S0	ppm
r blboiNu	0072	- - .46	- - .06	2%46	- S.9y	1%2%	ppm
r blboiNu	0972	6.y4	9.S-	0.91	0.%y	0.%6	ppm
r ilicOo	2971	249.- 4	- - 9.12	20- .91	296.06	16.14	ppm
r ilRbe	1S071	S.2%	S.- 0	S.- S	S.- S	2S.%2	ppm
r ilRbe	1Sy71	S.2%	S.- 1	S.20	S.29	1S.y%	ppm
r OdiNu	2- 72	- 1- %09	- S- 2.y2	- S0%y2	- S91.%4	1.69	ppm
r teOotiNu	9671	- S- .99	42%29	- %6.Sy	- 61.0%	16.9-	ppm
r teOotiNu	9971	- 1y.0S	44- .y0	- 02.16	- 09.61	16.49	ppm
r NfNe	- 471	2140- .9y	- - 946.12	2%16%S-	26929.- %	2- .60	ppm
TbemiNu	1%y71				y9		G
TbemiNu	1%y72				1S2		G
TEalliNu	2S- 71	S.29	S.41	S.- -	S.- 4	1y.12	ppm
TEalliNu	2S%71	S.20	S.42	S.- -	S.- 4	21.%	ppm
Tio	11971	- .6y	%19	4.- %	4.41	16.y9	ppm
TitaoiNu	4071	% .1%	04.19	%9.42	61.y2	10.60	ppm
F eaoiNu	2- 971	- .0S	%1-	4.2%	4.- 6	16.62	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%l72	4y.64	49.12	49.S9	49.62	1.9-	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				yy		G
YtteiNu	9y72				1S2		G
Zioc	6672	16- .12	1%9.- 4	166.6y	162.02	2.%0	ppm
ZiecOoiNu	yS71	4.99	6.y0	%00	%90	10.92	ppm
ZiecOoiNu	y171	%Sy	6.y2	6.S%	6.S2	1%26	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	110hhF24	12S49FS8	11h6hF28	11h- 0FB0	1FS9	l l b
cn&Amon%	12171	SF1h	SF21	SF29	SF22	1- F2h	l l b
crsenAq	0972	6Fh2	0F6S	8FS0	0F9-	0F60	l l b
BarAum	1- 971	18hFS-	1h- F0S	221F4h	2S1F41	8F01	l l b
BarAum	1- 071	188Fhh	1h4Fh4	22SF6h	2S1F94	8F- 6	l l b
Ber%lAum	h71	1F29	1F26	1F- h	1F- S	6F22	l l b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	SF92	SF4-	SF14	SF- 0	9- FhS	l l b
RaOmAum	1S671	74F- 8	71F2-	72F- 0	72F66		l l b
RaOmAum	11171	SF- 1	SF- 6	SF- 0	SF- 9	8F9h	l l b
RalqAum	4- 71	4hh8F1S	91h1F2-	981SF0S	9- - - F- 4	0Fh6	l l b
RalqAum	4471	94- SF26	948- F99	61h0FSh	90S- F64	0F91	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	2SFh1	2SF06	2SFh-	2SFB0	SF49	l l b
Robal&	9h72	0F1h	0FSh	0F22	0F16	SFh9	l l b
Rol l er	6- 72	2SF0h	2SF0S	2SFh0	2SFB2	SF66	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S6		G
DnOAum	11971				1S8		G
DnOAum	11972				1SS		G
Don	9472	22984F60	228S- Fh8	220S2F60	226h0F11	SF48	l l b
Don	9672	222S6F- 0	229- 6F4S	22Sh2F08	22208F92	1FS-	l l b
Don	9072	21S- - Fh4	21210FS1	2S0h8FB0	21S16F61	1FSS	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	29F19	29F26	20F40	29Fh6	9FS9	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	2- F4S	2- F0S	29F9-	24F21	4F06	l l b
LeaO	2S871	24F49	24F98	26F4h	29F18	4F9-	l l b
LA&EAum	671				hh		G
MagnesAum	2472	200SFS4	2018F-	208SF02	2096F- 6	1F21	l l b
Manganese	9972	48- F08	480FSS	482F46	484F41	SF48	l l b
Mol%bOenum	h471	2F69	2F09	- FSh	2F8-	8F29	l l b
Mol%bOenum	h971	SF00	SF60	SF81	SF09	hF29	l l b
Mol%bOenum	h671	SFh9	1FS2	1FSh	1FS2	6F69	l l b
Mol%bOenum	h071	SF0-	SF00	SFh2	SF81	12F24	l l b
Mol%bOenum	h871	SF6h	SF04	SF8S	SF04	0F2h	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	19Fh8	16FSS	16F2S	16FS6	SF0-	l l b
PEosI Eorus	- 172	921F42	9h9F8-	9- 9F48	99SFh1	0F18	l l b
Po&assAum	- h72	262hF06	26hSF- h	2019Fhh	2608F01	1F69	l l b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4971				1S0		G
pqanOAum	4972				h0		G
pelenAum	8271	SF62	SF94	1F1-	SF00	41F61	l l b
pelenAum	0072	4hF- 2	40F6h	9SF6S	4hF2S	2Fh6	l l b
pelenAum	0872	0F96	0F94	0F2h	0F46	2FS2	l l b
pAAqon	2871	1h0F80	2S4F19	2- 1FS-	211FS1	8F- 9	l l b
pAver	1S071	SFS8	SF12	SF1S	SF1S	21F11	l l b
pAver	1Sh71	SFSh	SFSh	SF1S	SF1S	6F86	l l b
poOAum	2- 72	61F- 9	61F90	68F- 4	6- F09	6F2-	l l b
p&ona&um	8671	86F8-	8hFhh	h0F42	h1F41	9Fh9	l l b
p&ona&um	8871	h1F68	h4F06	1S2FSh	h6F10	9F96	l l b
pulfur	- 471	72- 6- Fh9	72421F- 1	71662Fh4	7214hF4S		l l b
i erbAum	19h71				11S		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF2-	SF24	SF20	SF29	8F12	l l b
i EallAum	2S971	SF2-	SF22	SF24	SF2-	- F44	l l b
i An	11871	1F- 1	1F40	1F0-	1F91	14F1S	l l b
i A&anAum	4071	124F9h	12hF41	144F92	1- 2F84	0F8-	l l b
UranAum	2- 871	1F41	1F44	1F9S	1F49	- FS4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	- - F24	- - F1S	- - F1S	- - F19	SF29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				1S8		G
ZAnq	6672	84F9h	84FS4	89F09	84F0h	1FS-	l l b
ZAqonAum	hS71	1F24	1F- -	1F49	1F- 4	0F02	l l b
ZAqonAum	h171	1F2h	1F28	1F- 4	1F- S	2F48	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1S000. y	11- h1.61	12h16.-	116hy.2	h.42	ppm
Aotiu Oo%	12171	S.yS	S.4h	S.yS	S.4h	1.S2	ppm
Aesboic	0y72	1y.- y	16.4-	1 .h0	16.h1	1S.h	ppm
BaeiNu	1- y71	100.24	1 0.1S	1 2.S0	1 2.14	2.01	ppm
BaeiNu	1- 071	10h.00	1 - .- 1	1 4.- h	1 2.4h	1.- 2	ppm
Bbe%liNu	h71	S. 6	S. 6	S. 2	S. y	2.6S	ppm
Bisu NtE	2Sh71				11S		G
Bisu NtE	2Sh72				hh		G
BeOu iob	171						cps
Uadu iNu	1S 71	2.S2	1.0S	1.-	1.0S	1 .hh	ppm
Uadu iNu	1S671	71.yh	72.- h	72.22	72.S0		ppm
Uadu iNu	11171	1. S	1.00	1.h0	1. y	y.hS	ppm
UalciNu	4- 71	- S- 0- . -	- 1446.- 4	- S- .1h	- S0- 6.12	2.SS	ppm
UalciNu	4471	- 1- 04.24	- 2S1- .11	- 1- 12.SS	- 1y66.4y	1.2-	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- y71						cps
UElOeiob	- y72						cps
UEeOu iNu	y272	2S.- h	21.00	2y.14	22.4-	1S.hS	ppm
UOmalt	yh72	1S.02	11.4y	12. h	11.6h	h.4y	ppm
UOppbe	6- 72	- S. -	- 1. 1	- 6.S1	- 2.	.-	ppm
D%speOsiNu	1y671						cps
D%speOsiNu	1y672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16y71				111		G
MOlu iNu	16y72				h0		G
IodiNu	11y71				1Sh		G
IodiNu	11y72				h2		G
IeOo	y472	- S0S4.- -	- - S26.- -	- 64S1.S0	- - - 00.24	.y	ppm
IeOo	y672	2h h2.1	- 1yS6.0h	- 026 .- 4	- 2 h.1S	11.0h	ppm
IeOo	y072	2 110.Sh	- S2 - . 0	- - h 4.- h	- S0hy.12	h.6-	ppm
Ke%ptOo	- 71						cps
Lbad	2S671	- - .10	- 4.2S	- - .6S	- - .66	1.y4	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S071	- 1.y4	- 2.0h	- 2.Sy	- 2.1-	1.hy	ppm
Lbad	2S 71	- 2.- 6	- - .2y	- 2.42	- 2.6	1.y2	ppm
LitEiNu	671				hh		G
g avobsiNu	2472	1- 4Sy.y0	1- 41.y	16S2 .S0	1442y.S0	h.04	ppm
g aovaobsb	yy72	411.4	4- 6.24	4h6.h4	44 .22	h. 1	ppm
g Ol%mdboNu	h471	- .h-	- .hS	- . y	- .hS	1.1S	ppm
g Ol%mdboNu	hy71	1.06	1.y0	1.6-	1.6y	y. S	ppm
g Ol%mdboNu	h671	1.h6	1.hy	1.	1.h-	2.46	ppm
g Ol%mdboNu	h071	1.y6	1.4	1.yh	1.y4	- .40	ppm
g Ol%mdboNu	h 71	1.0y	1.0h	1.04	1.06	1.4S	ppm
8 bOd%u iNu	1yS71						cps
8 bOd%u iNu	1yS72						cps
8 ickbl	6S72	2h.11	- S.- -	- - .40	- S.h0	0.20	ppm
PEOspEOeNs	- 172	21y2.6	220h.2S	2y46.60	2- 26.1	.6y	ppm
POtassiNu	- h72	- h6y.yS	426y.Sh	40 - .y1	4- - .S4	h.y4	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				h6		G
r caodiNu	4y71				1S0		G
r caodiNu	4y72				h		G
r blboiNu	271	S.	S.	S. 1	S. 6	4.y4	ppm
r blboiNu	0072	1 .yh	20.62	21.h1	22.01	2S.12	ppm
r blboiNu	0 72	4.60	6.- 4	0.60	6.2-	24.10	ppm
r ilicOo	2 71	21S.S0	21y.4h	2S .S2	211.2S	1. -	ppm
r ilRbe	1S071	S.2	S.- 2	S.2h	S.- S	0.Sh	ppm
r ilRbe	1Sh71	S.- S	S.- 2	S.- -	S.- 2	4.64	ppm
r OdiNu	2- 72	1- y.Sy	14 .4S	1 1. y	1yy.1S	1y.yy	ppm
r teOotiNu	671	h0.- 0	h- .12	h6.2S	hy.y0	2.- S	ppm
r teOotiNu	71	1S1.- 1	1SS.04	1SS.10	1SS.04	S.y6	ppm
r NfNe	- 471	71- 40.21	7h06. -	7110- .20	7116y.00		ppm
TbemiNu	1yh71				111		G
TbemiNu	1yh72				h6		G
TEalliNu	2S- 71	S.2h	S.- 4	S.- 1	S.- 1	.S0	ppm
TEalliNu	2Sy71	S.2h	S.2h	S.- S	S.2h	1.42	ppm
Tio	11 71	S.6-	S.60	S.61	S.64	4.h-	ppm
TitaoiNu	4071	0 .yS	1.46	06.- 4	0 .00	- .26	ppm
FeaoiNu	2- 71	1.h4	2.Sy	2.S	2.S2	- . S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y172	46.0h	4h.1h	y4.hy	yS.- 1	.- -	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	h71				111		G
YtteiNu	h72				h4		G
Zioc	6672	1h1. 0	2S- . 1	220.yh	2S0.06	.0y	ppm
ZieoOoiNu	hS71	1.- 6	1.41	1.- 4	1.- 0	2.	ppm
ZieoOoiNu	h171	1.4-	1.-	1.2-	1.- y	0.y-	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20:2	7 1yN.27	71 N4.1N	71 77.0	71y0y. y	2.S	DDe
qCTb 5Ch	121:1	4y .44	4y2.S4	4NS.	4NN.61	1.40	DDe
qpwr Ccl	07:2	720.62	722.6y	717.62	721.yN	1.16	DDe
Bspcmb	1 7:1	24yy.yS	24yS.27	24N4.N	24y1.66	S. 1	DDe
Bspcmb	1 0:1	24NN.7N	240N.2N	241S.66	247y.10	1.02	DDe
Br phPmb	y:1	47y.N7	404.N2	460.02	460.46	1.6S	DDe
Bcwb mT%	2Sy:1				yN		E
Bcwb mT%	2Sy:2				y		E
Bp5b cCr	N1:1						dDw
3 sob cmb	1SN:1	4yS. 2	4yS.SS	4y0.22	4y2.71	S.N	DDe
3 sob cmb	1S6:1	4yN.12	4N .y2	402.N6	4N4.y0	2.61	DDe
3 sob cmb	111:1	4Ny.7N	4N6.S2	400.17	4N4.27	1. 2	DDe
3 sPlcmb	4 :1	2714y .02	24y1N1.1y	24 N4S.S	24N101.67	1.7N	DDe
3 sPlcmb	44:1	24SySy.N7	241S21.	24S40y.S4	24SNS .41	S.12	DDe
3 spe5C	12:1						dDw
3 spe5C	12:2						dDw
3 %P5pcCr	7:1						dDw
3 %P5pcCr	7:2						dDw
3 %p5b cmb	72:2	4yy.1y	4y .47	4N0.y6	4y .7	1.14	DDe
3 5esPT	7y:2	4yy.N4	4y4.7N	4yS.y4	4y7.12	S.yS	DDe
3 5DDr p	6 :2	72y0. N	7 SN. 1	7 26.26	7 1S.67	S.20	DDe
&hwDp5wcmb	176:1						dDw
&hwDp5wcmb	176:2						dDw
Gpecmb	164:1						dDw
Gpecmb	164:2						dDw
Hso5PlCcmb	16S:1						dDw
Hso5PlCcmb	16S:2						dDw
K5Pb cmb	167:1				1S2		E
K5Pb cmb	167:2				yN		E
tCocmb	117:1				y0		E
tCocmb	117:2				Ny		E
tp5C	74:2	1 S010.6N	12y70S. 4	12N7N0.47	12y627.16	S.N2	DDe
tp5C	76:2	1 S1y4.61	1 1217.	12yS24.2N	1 S144.04	S.N4	DDe
tp5C	70:2	1 10N. 1	1 16y .06	1244S1. S	12y070.0y	.62	DDe
k phDT5C	N :1						dDw
Lr so	2S6:1	2402.	24 6.y	247y.y4	2476.4S	S.0	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0:1	24y2. N	246S.07	24N .yS	240y.S1	S.66	DDe
Lr so	2SN:1	24yS.Ny	24y0. y	27S0. 4	24yN.74	S.	DDe
LdP%mb	6:1				NN		E
MsgOr wmb	24:2	26444N.y4	261727.1y	26S077.26	26224 .1	S.04	DDe
MsOgsOr wr	77:2	72y1. 7	7260.6y	7207.SS	720N.S2	S.2	DDe
M5Pheor Omb	y4:1	4N44.21	4N .N1	4y 2.N1	4N0S.2N	1.12	DDe
M5Pheor Omb	y7:1	4N2N.S0	4N71.26	7S2N.1y	4yS2.71	2.2	DDe
M5Pheor Omb	y6:1	406y.44	4y21.Ny	7S 4.N1	4ySN.01	2.01	DDe
M5Pheor Omb	y0:1	4N47.7	4yS7. 0	7SS4.2N	4y1N. y	1.6	DDe
M5Pheor Omb	yN:1	4yS7.N	4y22.S6	7S7 .06	4y6S.77	1.64	DDe
ur 5ohb omb	17S:1						dDw
ur 5ohb omb	17S:2						dDw
udfr P	6S:2	7S0.2	7SN.71	7SN.S1	7S0.y2	S.1	DDe
8 %5wD%5pmw	1:2	yy2y.y0	y6 1.21	y0yy.4y	y0N6.Ny	1.7	DDe
8 5Tswwmb	y:2	1202Sy.17	12N1y .yy	126S7y.74	120174.2	S.N4	DDe
R%5omb	1S :1				y2		E
R%5omb	1S :2				Ny		E
I dsOomb	47:1				y4		E
I dsOomb	47:2				NN		E
I rPOmb	N2:1	462.44	46y.67	4N6.40	402.N7	2.61	DDe
I rPOmb	00:2	4yy. 7	7SS.2y	711.76	7S .0	1. 7	DDe
I rPOmb	0N:2	720.76	7SN.N4	7S0.N1	714.04	2.16	DDe
I dd5C	2N:1	722.7S	71N.7N	712.0N	710.y7	S.y4	DDe
I dPr p	1S0:1	4N0.0	402.60	406.N2	40y.S0	1.62	DDe
I dPr p	1Sy:1	4N6.44	404.N4	40y.7S	4NS.26	1.22	DDe
I 5omb	2 :2	20SSNy.7	264276.y4	264 2.20	266226.27	1.26	DDe
I Tp5CTomb	N6:1	1220 .41	12170.S7	120 1.67	12 N0. 0	2.47	DDe
I Tp5CTomb	NN:1	12SN0. 0	12Sy2.10	12260.10	1214N.yS	S.N4	DDe
I mPVp	4:1	y000.NS	y211.12	NN24.6y	y201.2S	7.10	DDe
Ar pemb	17y:1				1S		E
Ar pemb	17y:2				y0		E
A%sPmb	2S :1	71 .24	4yy. 7	4y0.20	7S .2y	1.0	DDe
A%sPmb	2S7:1	7S0.6S	4y4.24	7S1.24	7S1.S	1.	DDe
AdC	11N:1	40N.yy	7S2.1y	4N1.y2	4N0.0S	2.7y	DDe
AdSOmb	40:1	7S47.42	7S6 .72	4y00.77	7S2N.N	S.yS	DDe
UpsOmb	2 N:1	7S1.S4	7SS.2S	710.y	7S6. y	1.yN	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DrP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 RrCT9l sb DrP9l&9J9	3 3 - S27	&drmT5C9FsdT5p9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdrP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	71:2	72N.N6	724.7y	722.66	727. 0	S.6S	DDe
YTTr peomb	102:1						dDw
YTTr peomb	102:2						dDw
YTTr peomb	106:1						dDw
YTTr peomb	106:2						dDw
YTTpomb	Ny:1				yN		E
YTTpomb	Ny:2				y1		E
ZdCd	66:2	7S00.42	4yy4.y6	7S14.16	7S2N.N7	S.N6	DDe
Zqpd5Comb	yS:1	400. N	4y .yS	4y0.N4	4Ny.01	2.22	DDe
Zqpd5Comb	y1:1	461.S0	466.S6	40N.yN	46N.01	1.y0	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	20 2	1.y7	2.S6	1.- y	1.86	17.2S	I I b
c 5&Amn5h	121 1	S.1y	S.21	S.26	S.22	1- .70	I I b
c rse5Aq	0- 2	S.S2	S.S7	S.S2	S.S2	21.46	I I b
BarAum	17- 1	S.1-	S.14	S.1-	S.14	7.47	I I b
BarAum	170 1	S.17	S.16	S.27	S.10	28.21	I I b
BerhllAum	y 1	S.S0	S.S6	S.S0	S.S0	6.y8	I I b
BAsmu&%	2Sy 1				1S-		E
BAsmu&%	2Sy 2				1S4		E
BrnmA5e	81 1						ql s
3 aOmAum	1S8 1	S.10	S.1S	S.S6	S.SS	7111.14	I I b
3 aOmAum	1S6 1	- .S8	- .2S	- .64	- .71		I I b
3 aOmAum	111 1	S.S7	S.S6	S.S1	S.S7	6y.82	I I b
3 alqAum	47 1	16.y2	16.Sy	12.81	1- .28	14.24	I I b
3 alqAum	44 1	26.- S	7S.46	27.- -	26.84	12.y1	I I b
3 arbn5	12 1						ql s
3 arbn5	12 2						ql s
3 %nrA5e	7- 1						ql s
3 %nrA5e	7- 2						ql s
3 %nmAum	- 2 2	S.S1	S.S-	S.S0	S.S4	64.y2	I I b
3 nbal&	- y 2	S.S2	S.SS	S.SS	S.S1	11S.21	I I b
3 nI I er	67 2	S.62	S.6S	S.- 0	S.6S	4.- 6	I I b
t hsI rnsAum	1- 6 1						ql s
t hsI rnsAum	1- 6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
GaOnIA5Aum	16S 1						ql s
GaOnIA5Aum	16S 2						ql s
HnImAum	16- 1				1S-		E
HnImAum	16- 2				1S7		E
D5OAum	11- 1				1S7		E
D5OAum	11- 2				y0		E
Dn5	- 4 2	- .78	7.27	6.22	4.y4	71.16	I I b
Dn5	- 6 2	- .Sy	7.yS	4.77	4.44	17.- 8	I I b
Dn5	- 0 2	6.46	4.88	4.4y	- .28	1y.06	I I b
Krhl &a5	87 1						ql s
LeaO	2S6 1	S.2S	S.21	S.18	S.2S	y.0-	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
LeaO	2S0 1	S.24	S.21	S.22	S.22	- .- -	I I b
LeaO	2S8 1	S.24	S.22	S.2S	S.22	0.- S	I I b
LA%Aum	6 1				y7		E
Mag5esAum	24 2	0.- 8	0.72	8.S4	0.6-	4.04	I I b
Ma5ga5ese	- - 2	S.22	S.2S	S.22	S.21	6.4S	I I b
MnlhbOe5um	y4 1	S.- y	S.- 6	S.- 1	S.- -	0.60	I I b
MnlhbOe5um	y- 1	S.67	S.- 8	S.- S	S.- 0	11.60	I I b
MnlhbOe5um	y6 1	S.64	S.- 8	S.- 2	S.- 8	1S.10	I I b
MnlhbOe5um	y0 1	S.64	S.6S	S.- 2	S.- 8	1S.88	I I b
MnlhbOe5um	y8 1	S.60	S.- -	S.- S	S.- 8	1- .S1	I I b
NenOhmAum	1- S 1						ql s
NenOhmAum	1- S 2						ql s
NAqkel	6S 2	S.S7	S.S1	S.S8	S.S4	8- .18	I I b
P%nsI %nrus	71 2	71.- S	- 7.Sy	4- .10	47.2-		I I b
Pn&assAum	7y 2	28.yy	22.6-	7- .76	2y.SS	21.yS	I I b
R%nOAum	1S7 1				1S1		E
R%nOAum	1S7 2				1S2		E
pqa5OAum	4- 1				1SS		E
pqa5OAum	4- 2				y2		E
pele5Aum	82 1	S.22	S.S6	S.21	S.12		I I b
pele5Aum	00 2	S.78	S.78	S.0y	S.S1	- 2y0.S0	I I b
pele5Aum	08 2	S.7S	S.07	S.- 2	S.- 2		I I b
pAAqn5	28 1	S.10	S.26	S.14	S.1y	71.24	I I b
pAver	1S0 1	S.S4	S.S4	S.S7	S.S4	14.0S	I I b
pAver	1Sy 1	S.S4	S.S7	S.S7	S.S4	1y.64	I I b
pnOAum	27 2	08.S7	0S.- 8	07.41	04.S1	- .S8	I I b
p&n5&Aum	86 1	S.y8	S.86	S.60	S.84	1y.S0	I I b
p&n5&Aum	88 1	S.y2	S.04	S.0-	S.8S	12.64	I I b
pulfur	74 1	12y7.28	8SS.S1	1S28.88	1S4S.02		I I b
i erbAum	1- y 1				1S4		E
i erbAum	1- y 2				1S1		E
i %allAum	2S7 1	S.1y	S.1y	S.10	S.18	0.64	I I b
i %allAum	2S- 1	S.1y	S.1y	S.18	S.18	7.07	I I b
i A5	118 1	S.SS	S.S1	S.S7	S.SS		I I b
i A&a5Aum	40 1	S.77	S.77	S.42	S.76	14.- 1	I I b
Ura5Aum	278 1	S.S4	S.S7	S.S2	S.S7	20.16	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	- 1 2	S.S1	S.SS	S.S1	S.S1	40.46	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8y 1				1S1		E
Y&&Aum	8y 2				y6		E
ZA5q	66 2	S.12	S.20	S.70	S.2-	48.y-	I I b
ZAqn5Aum	yS 1	S.S-	S.S2	S.S4	S.S4	42.42	I I b
ZAqn5Aum	y1 1	S.S7	S.S1	S.S7	S.S2	67.2S	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPP:u sb r :9	SN6qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	12 4- US-	1- 2 1U1N	12 06U2	1- S0SU10	1U40	DDe
q5Tb n5%	12171	SUJ J	SU6S	SUJ6	SUJ0	4U2N	DDe
qpwr 5cd	0J72	21UN4	2SU24	21U02	21U20	4U2S	DDe
Bspcmb	1- J71	2J2U2S	2J2U-0	2641U6S	2J6U	2U00	DDe
Bspcmb	1- 071	2J6U4S	2JJUN-	2641U0	2J USS1	1U 4	DDe
Br p%PPmb	71	1U12	1US	1U1-	1U11	1UN0	DDe
Bcvb mTE	2S 71				1S6		G
Bcvb mTE	2S 72				1S4		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U26	1U42	1U 2	1UN0	22U44	DDe
v sob cmb	1S671	72USS	71U J	71U4N	71UN1		DDe
v sob cmb	11171	1UN-	1UN6	1U -	1UN0	2U01	DDe
v sPdcmb	4- 71	J20S0U21	J1N- 0U2J	J1 - 4U44	J21J U6-	SU 1	DDe
v sPdcmb	4471	J- 04 UN2	J- 4NU	J44 1UJJ	J4S6- U4J	SU01	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- J71						dDw
v EPmpc5r	- J72						dDw
v Epmb cmb	J272	21UJ6	21U0	21UJ6	21U64	SU61	DDe
v nesPT	J 72	1- U 1	14U-1	14U10	14U1-	1U46	DDe
v nDDr p	6- 72	- 2U22	- 2U02	- 1U -	- 2U2	1U24	DDe
&%wDpnwcmb	1J671						dDw
&%wDpnwcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16J71				1SN		G
h nPb cmb	16J72				1S4		G
t5ocmb	11J71				1S-		G
t5ocmb	11J72						G
tpn5	J472	- J J- UJS	- 6SN6U2	- J4 NU00	- JN46U1	SUN6	DDe
tpn5	J672	- 62N0US-	- J461U0J	- J- 0- UJJ	- J0S0U44	1U41	DDe
tpn5	J072	- - - 2- US1	- - - J1UN2	- - 1 2US-	- - 2NNU J	SU26	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	4SU6	- U4	- U6	4SU2	1U4J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPP:u sb r :9	SN6qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- NUJ0	- 0UNN	- NUJ6	- NU2S	SU0-	DDe
Lr so	2SN71	- UJ-	- NU0S	- U11	- US4	SUN2	DDe
LdEomb	671				6		G
y sM5r womb	2472	1- 16JUN4	1- 00- UJ0	1- 2N- USN	1- 4S0U4-	2U4S	DDe
y s5Ms5r wr	JJ72	4 0U6	JS- U06	4 NUJ0	JSSUS1	SU66	DDe
y nP%eor 5mb	471	JUS1	4U06	4U00	4UNJ	2U 0	DDe
y nP%eor 5mb	J71	2UN-	2UJ-	2UJS	2U62	6U -	DDe
y nP%eor 5mb	671	- US6	2UNJ	2UJ	2UN-	NUJS	DDe
y nP%eor 5mb	071	2U0	2U6N	2U44	2U64	6U00	DDe
y nP%eor 5mb	N71	2U -	2U62	2U40	2U60	NU0S	DDe
u r no%b omb	1JS71						dDw
u r no%b omb	1JS72						dDw
u dkr P	6S72	- JU4J	- JUN1	- JUNN	- JU01	SU66	DDe
8 EnwDEnpmw	- 172	1201U02	12J U60	1241U	12J0U0	1U1	DDe
8 nTswwomb	- 72	- 10SUS-	- 2- 2U41	- 1N6U0J	- 1 6U4S	1US1	DDe
CEnoomb	1S- 71				1S1		G
CEnoomb	1S- 72				1S2		G
I ds5oomb	4J71				1S-		G
I ds5oomb	4J72				6		G
I r P 5omb	N271	1UJ-	SU02	SUJ6	1USS	- SU64	DDe
I r P 5omb	0072	- JU2S	24UJ1	2 U4S	2 U0S	1NUS-	DDe
I r P 5omb	0N72	JUS6	JUJ	JUJ1	JUJ1	NU1S	DDe
I dBdn5	2N71	2- 2UJ-	226UJ4	22 US4	22 UJS	1U4S	DDe
I dBr p	1S071	SUJ	SUJ0	SUJN	SUJN	- U14	DDe
I dBr p	1S 71	SUJ0	SUJ0	SUJ	SUJN	- UJ	DDe
I nomb	2- 72	2N0U4J	2 6U6S	20JUNS	2N6U61	- U64	DDe
I Tpm5Tomb	N671	1J1US-	14NU1J	14JUJN	14NU1	1U 1	DDe
I Tpm5Tomb	NN71	1J6USS	1J4U0N	1J1U64	1J4U14	1U46	DDe
I mPmp	- 471	7 J0USJ	71S41U01	71SJ6U0J	71S1NUJS		DDe
Ar peomb	1J 71				1S0		G
Ar peomb	1J 72				1S-		G
AEsPBmb	2S- 71	SUJ4	SUJ-	SUJ1	SUJ-	2UJ6	DDe
AEsPBmb	2SJ71	SUJ0	SUJ6	SUJ4	SUJ6	2U	DDe
Ad5	11N71	SU02	SU04	SU02	SU0-	1U01	DDe
AdS5omb	4071	JJUJ1	JJUN4	JJU61	JJUJN	SU4N	DDe
Rps5omb	2- N71	2U41	2UJ4	2UJ-	2UJ6	1U02	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DPr:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPr:t&:9	y h SF40	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPr:u sb r :9	SN6qC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	J172	J6UJ	JNUJ	J6U14	J0U11	2U2N	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				1S0		G
YTTpomb	N 72				1S4		G
Zd5d	6672	16NU0S	101UJ	160U0J	16 U40	1US	DDe
Zqpdn5omb	S71	1U4N	1U64	1UJJ	1UJ6	JU22	DDe
Zqpdn5omb	171	1UJ	1UJ6	1U40	1U40	JU0	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1yP06.- -	1yh22.1S	1yh2P.P6	1yhSh.1S	S.1P	ppm
Aotiu Oo%	12171	1.1-	1.10	1.1-	1.14	1.06	ppm
Aeaboic	0y72	- 0.6S	- h.66	4S.Sh	- h.12	- .4S	ppm
BJeiNu	1- y71	46- .4P	46P.h0	4Py.1-	402.y-	2.- P	ppm
BJeiNu	1- 071	40S.2P	40S.62	4P6.62	40y.P4	1.h6	ppm
Bbe%wiNu	h71	2.SS	1.h2	1.Ph	1.h4	- .S-	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	- .0h	2.04	- .24	- .26	16.11	ppm
UJdu iNu	1S671	7S.1S	71.2-	S.P1	7S.1P		ppm
UJdu iNu	11171	2.00	- .SP	- .Sh	2.hP	6.1y	ppm
UJwiNu	4- 71	4yP0- .2P	4P- 4P.1S	4601h.y1	46hPS.2h	2.6P	ppm
UJwiNu	4471	4P114.y1	yS- - y.1h	4P1hP.S-	4PPP2.y0	2.y0	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	- S.2y	- S.y1	- S.S6	- S.20	S.04	ppm
UOmJw	yh72	14.4-	14.66	14.0y	14.61	1.11	ppm
UOppbe	6- 72	01.S2	01.1P	0S.62	0S.h4	S.41	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S6		G
IodiNu	11y71				1SP		G
IodiNu	11y72				hh		G
IeOo	y472	- y260.60	- yh1P.64	- y0h6.- 4	- y66S.PP	S.h0	ppm
IeOo	y672	- ySS6.2h	- 464S.2P	- y141.S1	- 4h2h.1h	S.04	ppm
IeOo	y072	- 20S- .S6	- 204h.41	- - - h1.SP	- 2h40.Py	1.10	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	- PP.6P	- 0P.44	- h2.26	- P6.46	1.P6	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	- 0- .yh	- yh.06	- 6h.1y	- 60.yS	1.h2	ppm
LbJd	2SP71	- 06.16	- 6h.- y	- 0h.Py	- 0y.12	1.42	ppm
LitEiNu	671				hP		G
g JvobaiNu	2472	h02y.S6	h000.41	1SS46.00	hP4h.0y	1.0y	ppm
g JovJobab	yy72	12S6.h6	121h.- y	122- .01	1216.60	S.01	ppm
g O%mdboNu	h471	0.- 0	0.hh	P.1y	0.P4	y.2y	ppm
g O%mdboNu	hy71	2.2h	2.44	2.20	2.- -	- .hP	ppm
g O%mdboNu	h671	- .S4	- .S-	2.0S	2.h2	6.06	ppm
g O%mdboNu	h071	2.- y	2.- h	2.46	2.4S	2.- S	ppm
g O%mdboNu	hP71	2.- 0	2.- 0	2.41	2.- P	S.h1	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	- S.yP	- S.4y	- 1.2P	- S.00	1.46	ppm
I EOapEOeNa	- 172	y422.16	y4S1.Py	y20P.Sh	y- 60.- 0	1.4y	ppm
I OtJaaiNu	- h72	h240.yh	h2P4.hS	hy1h.04	h- yS.04	1.yP	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r cJodiNu	4y71				1S0		G
r cJodiNu	4y72				h6		G
r bwboiNu	P271	1.S1	S.64	1.- 4	1.SS	- 4.hP	ppm
r bwboiNu	0072	2P.20	- 1.12	- 0.P4	- 2.41	1y.16	ppm
r bwboiNu	0P72	0.h2	6.6S	0.hy	0.4h	1S.20	ppm
r iwcOo	2P71	2- 2.41	24S.2-	2- 4.0-	2- y.0h	1.0S	ppm
r iwRbe	1S071	1.SS	1.S2	1.Sy	1.S2	2.01	ppm
r iwRbe	1Sh71	S.h6	1.SS	S.hP	S.hP	1.h4	ppm
r OdiNu	2- 72	2- 2.4P	22y.12	222.4P	226.6h	2.2h	ppm
r teOotiNu	P671	- - 2.y1	- - h.0y	- - P.y6	- - 6.h4	1.1y	ppm
r teOotiNu	PP71	- 4P.S2	- 4P.21	- 4- .h-	- 46.02	S.0S	ppm
r NwNe	- 471	41.6-	yS6.PP	4S.y-	1h6.- 4	1- 6.h0	ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S-		G
TEJwiNu	2S- 71	S.44	S.4S	S.41	S.41	y.14	ppm
TEJwiNu	2Sy71	S.- h	S.41	S.4-	S.41	y.S6	ppm
Tio	11P71	0.yh	0.4h	0.6h	0.yh	1.- 1	ppm
TitJoiNu	4071	1P6.y0	1h0.04	1hS.- 4	1h1.yy	2.h0	ppm
F eJoiNu	2- P71	2.S0	2.Sy	2.16	2.Sh	2.0-	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	6S.hh	6S.6S	61.hh	61.1h	1.10	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1S6		G
Zioc	6672	6SS.2P	yh- .6-	6S1.h-	yhP.61	S.0-	ppm
ZiecOoiNu	hS71	- .11	- .- 0	- .- 1	- .26	4.12	ppm
ZiecOoiNu	h171	- .- h	- .- P	- .2-	- .- -	2.yh	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1- 21- .- 1	1- Shh.12	12P2y.0P	1- S- 2.04	1.4P	ppm
Aotiu Oo%	12171	S.PP	S.PS	S.P0	S.Ph	4.0-	ppm
Aeaboic	0h72	- 4.10	- 6.12	- h.44	- h.24	2.P1	ppm
BJeiNu	1- h71	42- .16	- y4.1S	- y1.21	4S2.P2	4.- y	ppm
BJeiNu	1- 071	414.P0	- yP.4S	- P0.yh	4SS.41	- .- y	ppm
Bbe%wiNu	y71	1.6-	1.02	1.02	1.6y	2.P6	ppm
Biau NtE	2Sy71				1S0		G
Biau NtE	2Sy72				1Sh		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.- 4	2.20	2.26	2.2y	1.0h	ppm
UJdu iNu	1S671	S.P0	71.02	1.40	S.21	P24.16	ppm
UJdu iNu	11171	2.06	2.6-	2.04	2.01	2.6h	ppm
UJwiNu	4- 71	2S62y.06	1yh21.66	1y2PP.- 0	1yP1- .20	- .62	ppm
UJwiNu	4471	21h- h.P4	2S- 1- .1h	2SS14.h0	2S621.1P	- .y1	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	1y.h4	1y.66	1P.Py	1y.- 6	2.12	ppm
UOmJw	hy72	14.44	14.4S	14.2P	14.- 0	S.hh	ppm
UOppbe	6- 72	hh.16	h- .PS	h- .P0	h4.2P	1.42	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sh		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				yy		G
IeOo	h472	- SSPy.21	2yPhh.2-	2yhy4.0P	2yP46.41	S.P-	ppm
IeOo	h672	- S226.2-	2y4S1.60	2yS- P.26	2yhhh.- y	2.S6	ppm
IeOo	h072	20061.h0	20002.41	20Sy1.P-	20h41.y4	1.42	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	20S.y0	- S- .0-	2yh.- 0	2yS.S2	h.P0	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	262.22	266.- 6	2h- .y0	26S.Ph	2.42	ppm
LbJd	2SP71	2Ph.- 6	2y2.20	2PP.0P	2PP.PS	1.2S	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	hS2y.4P	4y0S.4y	4P44.- h	4y4P.11	1.y1	ppm
g JovJobab	hh72	1S4S.2y	1S24.6P	1SSy.1P	1S24.01	1.h2	ppm
g O%mdboNu	y471	0.26	0.- y	0.26	0.- S	1.S1	ppm
g O%mdboNu	yh71	1.P0	1.y2	1.P4	1.P0	2.16	ppm
g O%mdboNu	y671	2.40	2.41	2.h1	2.46	2.S2	ppm
g O%mdboNu	y071	1.y6	1.y1	1.y1	1.y-	1.6S	ppm
g O%mdboNu	yP71	2.S6	1.y1	1.0-	1.yS	P.P2	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.6S	2P.14	20.4h	20.0-	1.- S	ppm
I EOapEOeNa	- 172	41Sy.hS	- y1S.SP	41- 4.yS	4Sh1.4y	- .S4	ppm
I OtJaaiNu	- y72	60- S.0y	6016.26	6hy2.P4	660y.y0	1.1-	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1S-		G
r cJodiNu	4h71				1S-		G
r cJodiNu	4h72				y6		G
r bwboiNu	P271	S.y-	S.P-	1.2h	1.SS	21.06	ppm
r bwboiNu	0072	- - .0y	4- .- 0	2S.26	- 2.40	- h.00	ppm
r bwboiNu	0P72	6.- 2	6.66	h.yS	6.2y	6.S2	ppm
r iwcOo	2P71	24h.0h	2- 6.0P	2- 4.yh	2- y.16	2.42	ppm
r iwRbe	1S071	S.0-	S.01	S.06	S.0-	- .1S	ppm
r iwRbe	1Sy71	S.P1	S.04	S.06	S.00	4.6h	ppm
r OdiNu	2- 72	106.h6	106.S4	10- .1h	10h.2h	1.Sh	ppm
r teOotiNu	P671	161.Ph	1hy.y0	1h0.P4	1hy.Py	1.26	ppm
r teOotiNu	PP71	104.S2	164.- 2	16P.2y	16P.PP	2.Py	ppm
r NwNe	- 471	761h.hS	7126S.- 2	71h16.h6	711- S.0y		ppm
TbemiNu	1hy71				1S0		G
TbemiNu	1hy72				1Sh		G
TEJwiNu	2S- 71	S.- 4	S.- 2	S.- 0	S.- 4	0.46	ppm
TEJwiNu	2Sh71	S.- 4	S.- -	S.- 2	S.- -	1.P0	ppm
Tio	11P71	P.SP	0.PP	0.0y	0.y2	1.yS	ppm
TitJoiNu	4071	14y.- 1	14- .Py	14- .01	14h.64	2.1y	ppm
FeJoiNu	2- P71	2.1y	2.1S	2.11	2.1-	2.- P	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	hh.P0	h4.yy	hh.06	hh.h4	S.P6	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				1Sh		G
Zioc	6672	4S2.S6	- y- .SS	- yS.yP	- yh.- h	1.4y	ppm
ZiecOoiNu	yS71	- .- -	- .- y	- .- S	- .- 4	1.- h	ppm
ZiecOoiNu	y171	- .- -	- .4S	- .6-	- .4h	4.6S	ppm

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	12800U16	1- 104U40	1- 21- U1	1- S88U1	1U4S	I I b
c n&Amon%	1217 1	1U1	1U42	1U4S	1U8	4U90	I I b
c rsenAq	0972	61U5-	66U9-	69U2S	64U99	- U60	I I b
BarAum	1- 97 1	4S- US1	440U55	490U85	4- 6U S	6U0S	I I b
BarAum	1- 07 1	4S5U41	461U2-	498U86	44- U10	6U6S	I I b
Ber%lAum	57 1	1U51	2U18	2U16	2US8	0U28	I I b
BAsmu&E	2S57 1				114		G
BAsmu&E	2S57 2				1S9		G
BromAne	817 1						ql s
v aOmAum	1S87 1	- U29	- U95	- U6S	- U48	9U08	I I b
v aOmAum	1S67 1	1U21	SU19	2U40	1U28	5SU52	I I b
v aOmAum	1117 1	2US6	2U40	2U40	2U -	1SU2-	I I b
v alqAum	4- 7 1	- 8S8SU21	4- 6S2U60	42946U54	414S5U54	0US8	I I b
v alqAum	447 1	- 885SU69	4401SU52	44020U20	42006U28	0U80	I I b
v arbon	127 1						ql s
v arbon	127 2						ql s
v ElorAne	- 97 1						ql s
v ElorAne	- 97 2						ql s
v EromAum	927 2	26U15	26U91	26U69	26U49	SU85	I I b
v obal&	957 2	12U5-	1- U18	1- U98	1- U2-	2U40	I I b
v ol I er	6- 7 2	56U46	50U28	56U40	56U0-	SU45	I I b
t %sI rosAum	1967 1						ql s
t %sI rosAum	1967 2						ql s
. rbAum	1647 1						ql s
. rbAum	1647 2						ql s
HaOolAnAum	16S7 1						ql s
HaOolAnAum	16S7 2						ql s
h olmAum	1697 1				112		G
h olmAum	1697 2				1S4		G
DnOAum	1197 1				1S5		G
DnOAum	1197 2				50		G
Don	947 2	- 252- U41	- - 525U44	- - 6- SU8	- - 454U41	1U94	I I b
Don	967 2	- - 22- U46	- - 6- 4U16	- 295- U60	- - 19SU4-	1U98	I I b
Don	907 2	- S010U25	- 1950U40	- S884U60	- 1S66U40	1U9S	I I b
Kr%l &on	8- 7 1						ql s
LeaO	2S67 1	159U9S	21SU0S	224U11	21SU1S	6U81	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	188U06	2S4U0	219U15	2S2U08	6U99	I I b
LeaO	2S871	2S4U5	22SU01	2- 9U21	22SU11	0U&1	I I b
LA&EAum	671				58		G
y aMhesAum	2472	1- - S0U08	1- 45- U18	1- 152U49	1- - - 1U14	1U14	I I b
y anManese	9972	1- 20U&-	1- - 9U4S	1- - 2U25	1- - 1U90	SU2	I I b
y ol%bOenum	5471	1SU41	11U9S	11U86	11U29	6U0-	I I b
y ol%bOenum	5971	- U4-	- U98	- U64	- U99	- U&S	I I b
y ol%bOenum	5671	4U&-	4U41	4U46	4U S	9U94	I I b
y ol%bOenum	5071	- U12	- U99	- U0-	- U40	5U&9	I I b
y ol%bOenum	5871	- U S	- U90	- U02	- U9-	6U&-	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2U40	- 2U85	- - U2S	- 2U89	1U12	I I b
PEosI Eorus	- 172	25- 6U5S	2848U56	2610U16	28S1U&1	9U5S	I I b
Po&assAum	- 572	468SU1S	4612U45	46- SU54	4641U18	SU09	I I b
CEoOAum	1S- 71				1S0		G
CEoOAum	1S- 72				1S1		G
pqanOAum	4971				1S8		G
pqanOAum	4972				54		G
pelenAum	8271	1U68	1U6	1U45	1U91	1SU8S	I I b
pelenAum	0072	44U08	- 8U44	48U&1	4- U04	11U1-	I I b
pelenAum	0872	1SU1	5U22	1SU94	1SU&2	0U&9	I I b
pAAqon	2871	188U84	218U55	21SU&-	2S9U59	0U92	I I b
pAger	1S071	SU5-	1U12	1U&5	1U&9	5U95	I I b
pAger	1S571	1U&-	1U19	1U14	1U11	6U&2	I I b
poOAum	2- 72	482U54	450U1S	454U9S	451U91	1U9-	I I b
p&ona&um	8671	21- U99	220U48	2- 2U80	224U64	4U44	I I b
p&ona&um	8871	22SU&0	2- 1U89	244U0	2- 2U1S	9U2-	I I b
pulfur	- 471	71698U -	7608U94	7568U0S	711S1U86		I I b
i erbAum	19571				112		G
i erbAum	19572				1S4		G
i EallAum	2S- 71	SU S	SU9	SU5	SU9	1- U&5	I I b
i EallAum	2S971	SU -	SU0	SU8	SU6	0U16	I I b
i A	11871	9U1-	9U80	9U80	9U62	0U95	I I b
i A&anAum	4071	189U4-	2S0U09	2S9U05	155U66	6U15	I I b
RranAum	2- 871	- U&6	- U0	- U66	- U0	8U52	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAn&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUD

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	9172	98U22	95U64	95USS	98U59	1U21	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8571				114		G
Y&&Aum	8572				1S9		G
ZAnq	6672	925U-1	9- 2U45	920U6-	925U81	SU40	I I b
ZAqonAum	5S71	4U91	4U08	4U84	4U01	- U0-	I I b
ZAqonAum	5171	4U46	4U59	9USS1	4U81	6U20	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 I r SstoS:	aswl sP
Lse psb I P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb I P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr I 1	ConRr I 2	ConRr I -	Avg. Conc.	ConcRp X	Unitw
APmb inimb	23O2	N69J.N1	N693.6-	N36- .26	N6J- .93	O.6J	I I e
Antib ony	12101	O.16	O.2O	O.19	O.13	14.94	I I e
ASvr nic	39O2	N.63	N.- O	N.4-	N.43	2.1J	I I e
BsSmb	1- 901	2N3.- 1	236.13	231.4N	23N.- 2	2.J2	I I e
BsSmb	1- 301	2J1.JN	23N.N1	236.9O	2N2.4-	2.J6	I I e
Br SyPmb	J01	2.- 1	2.49	2.- N	2.- N	2.JJ	I I e
Biwb mth	2OJ01				1O6		%
Biwb mth	2OJO2				1O-		%
BSob inr	N101						cl w
Csdb imb	1ON01	1.O2	O.66	O.3-	O.NO	2- .J2	I I e
Csdb imb	1O601	2.6-	01.J6	0O.41	O.ON	236N.4N	I I e
Csdb imb	11101	O.N-	O.32	O.N1	O.3N	3.34	I I e
CsPimb	4- 01	63- 2.69	644O.29	62JJ.6O	64JO.N-	- .4O	I I e
CsPimb	4401	3O- O.N9	63- 1.2-	6NO3.34	6N96.61	2.23	I I e
CsSeon	1201						cl w
CsSeon	12O2						cl w
ChPSnr	- 901						cl w
ChPSnr	- 9O2						cl w
ChSob imb	92O2	3.19	3.29	3.2O	3.2O	O.66	I I e
CoesP	9JO2	6.- 4	6.- O	6.44	6.- 6	1.19	I I e
Col I r S	6- O2	14.12	1- .JN	14.16	14.OJ	O.63	I I e
XywI Sowimb	19601						cl w
XywI Sowimb	196O2						cl w
ESeimb	16401						cl w
ESeimb	164O2						cl w
GsdoPhimb	16O01						cl w
GsdoPhimb	16OO2						cl w
HoPb imb	16901				1O6		%
HoPb imb	169O2				1O9		%
Dndimb	11901				1O-		%
Dndimb	119O2				JJ		%
DSon	94O2	23- 69.N3	2NON2.11	2N- O9.3N	23J13.J2	1.36	I I e
DSon	96O2	266OJ.66	23- J3.63	2343J.O2	23162.12	1.33	I I e
DSon	93O2	291- 2.41	2911J.21	29J62.42	294O4.6N	1.JO	I I e
KSyI ton	N- 01						cl w
Lr sd	2O601	- 3.3-	- 3.22	- 6.11	- 3.O2	2.24	I I e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l IP DX :	5 - 4430O- XL7 2	DnwtSmb nr t usb r :	8 N
CIPr nt psb l IP DX :	MHOF13	XiPntion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Lr sd	2O301	- 6.26	- 9.44	- 4.94	- 9.41	2.44	l l e
Lr sd	2ON01	- 3.N4	- 3.O-	- 6.O3	- 6.JN	2.4O	l l e
Lithimb	601				J6		%
Msgnr wimb	24O2	26N1.2-	264J.9-	26N2.43	2631.ON	O.3O	l l e
Msngsnr wr	99O2	19ON.3O	1919.6J	192- .4N	1919.J6	O.4J	l l e
MoPyedr nmb	J401	2.6O	2.NN	2.61	2.3O	6.O2	l l e
MoPyedr nmb	J901	1.29	1.2N	1.26	1.26	1.22	l l e
MoPyedr nmb	J601	1.9O	1.4-	1.4-	1.49	2.NO	l l e
MoPyedr nmb	J301	1.4O	1.22	1.42	1.- 9	N.ON	l l e
MoPyedr nmb	JN01	1.- O	1.29	1.29	1.23	2.- 6	l l e
u r odyb imb	19O01						cl w
u r odyb imb	19O02						cl w
u ickr P	6O02	11.4O	11.42	11.3O	11.91	1.46	l l e
8 howl hoSmw	- 1O2	6NJ.- 9	623.6N	6O3.J-	641.69	6.62	l l e
8 otswwimb	- JO2	4949.6O	49J6.42	4992.21	4964.39	O.61	l l e
Rhodimb	1O- 01				1O2		%
Rhodimb	1O- 02				1O-		%
p csndimb	4901				1O1		%
p csndimb	49O2				J9		%
pr IPnimb	N201	1.- 2	1.3-	1.- J	1.4N	14.3J	l l e
pr IPnimb	33O2	J6.- N	NJ.O6	JN.- 3	J4.6O	9.1N	l l e
pr IPnimb	3NO2	16.- J	16.6J	13.31	16.J-	4.11	l l e
piPcon	2N01	12N.6J	121.41	113.6N	122.9J	4.93	l l e
piPr S	1O301	O.19	O.13	O.14	O.19	N.NN	l l e
piPr S	1OJ01	O.13	O.16	O.14	O.16	11.22	l l e
podimb	2- O2	4- .J3	- J.JJ	44.41	42.3J	9.6J	l l e
ptSontimb	N601	4- .16	44.O6	42.93	4- .26	1.3-	l l e
ptSontimb	NN01	4- .2-	42.31	42.24	42.3-	1.13	l l e
pmPmS	- 401	011O- .22	0162N.NN	01J21.42	01991.13		l l e
Tr Seimb	19J01				1O9		%
Tr Seimb	19JO2				1O-		%
ThsPPmb	2O- 01	O.- O	O.- 1	O.29	O.2J	1O.1O	l l e
ThsPPmb	2O901	O.2J	O.2N	O.26	O.2N	- .N6	l l e
Tin	11N01	1.61	1.6O	1.9N	1.6O	O.N3	l l e
Titsnimb	4301	2N- .N6	2NO.11	23O.O6	23N.O1	2.93	l l e
USsnimb	2- N01	2.13	2.1-	2.1O	2.1-	1.3-	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Vsnsdimb	91O2	1J.O9	1J.N3	1J.6J	1J.94	2.21	l l e
Yttr Seimb	13201						cl w
Yttr Seimb	13202						cl w
Yttr Seimb	13601						cl w
Yttr Seimb	13602						cl w
YttSmb	NJ01				11J		%
YttSmb	NJ02				12O		%
Zinc	6602	16- .23	193.JN	166.J4	162.3-	2.33	l l e
ZiSconimb	JO01	O.J6	O.NJ	O.JO	O.J2	4.1-	l l e
ZiSconimb	J101	O.J-	O.N4	O.J2	O.JO	9.63	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
CITeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
i lumTbTum	23O2	nO38.96	n864.23	11932.83	1O131.nO	12.94	ppb
i oDTmdoy	12101	O.19	O.16	O.19	O.19	2.- 1	ppb
i rseoTA	39O2	8.68	n.99	1O.88	n.3O	11.- 8	ppb
BarTum	1- 901	236.62	23n.99	2n1.12	282.4-	2.31	ppb
BarTum	1- 301	236.9n	286.29	288.- 4	28- .3-	2.21	ppb
BerylITum	n01	2.4-	2.44	2.41	2.4-	O.4n	ppb
BTsmuDn	2Onn01				11O		%
BTsmuDn	2Onn02				n6		%
BrdmTbe	8101						Aps
CaqmTum	1O801	O.62	1.O8	O.33	O.8-	28.8-	ppb
CaqmTum	1O601	1.- 4	0O.34	0O.n2	0O.11		ppb
CaqmTum	11101	O.8O	O.36	O.83	O.81	6.6n	ppb
CalATum	4- 01	6- nn.O2	6- - 6.83	66O8.9O	6448.1-	2.21	ppb
CalATum	4401	68nO.36	6n91.n-	6839.n2	6nO6.2O	O.98	ppb
Carbdo	1201						Aps
Carbdo	1202						Aps
ChldrTbe	- 901						Aps
ChldrTbe	- 902						Aps
ChrdmTum	9202	3.- 9	3.nn	n.39	8.- 6	14.88	ppb
CdbalD	9nO2	6.48	6.nn	8.- n	3.28	1- .96	ppb
Cdpper	6- 02	1- .46	14.68	13.24	19.1-	12.39	ppb
XysprdsTum	19601						Aps
XysprdsTum	19602						Aps
ErbTum	16401						Aps
ErbTum	16402						Aps
GaqdlTbTum	16O01						Aps
GaqdlTbTum	16O02						Aps
HdlmTum	16901				111		%
HdlmTum	16902				nn		%
IoqTum	11901				1O6		%
IoqTum	11902				n2		%
Irdo	9402	2n33- .63	- 2- - - .81	- 3644.43	- - 29O.69	12.O3	ppb
Irdo	9602	2846n.- 9	- 2133.8n	- 346n.3-	- 23O9.69	1- .8-	ppb
Irdo	9302	2681- .3-	2n89n.O2	- 466O.86	- O444.94	12.nn	ppb
KrypDlo	8- 01						Aps
Leaq	2O601	- 8.O2	- 3.82	- 3.n6	- 3.n-	O.26	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
Leaq	2O301	- 9.66	- 9.1O	- 3.4n	- 6.On	- .46	ppb
Leaq	2O801	- 3.33	- 3.On	- 8.93	- 3.81	1.n9	ppb
LTDTum	601				1O1		%
MagoesTum	24O2	2688.41	2881.32	- - 99.O-	2n39.O9	11.9-	ppb
Maogaoese	99O2	1994.8-	13On.44	2O16.O1	136O.On	1- .- 4	ppb
Mdlybqeoum	n401	2.69	2.99	2.92	2.93	2.6-	ppb
Mdlybqeoum	n901	1.41	1.2-	1.- 4	1.- -	6.86	ppb
Mdlybqeoum	n601	1.4n	1.4O	1.4-	1.44	- .O9	ppb
Mdlybqeoum	n301	1.28	1.22	1.29	1.29	2.13	ppb
Mdlybqeoum	n801	1.- 1	1.2n	1.- O	1.- O	O.82	ppb
NedqymTum	19O01						Aps
NedqymTum	19O02						Aps
NTAkel	6O02	11.3O	12.8n	14.36	1- .12	11.38	ppb
Phdsphdrus	- 102	9- O.O3	6O6.4-	39O.31	62n.O3	13.81	ppb
PdDassTum	- nO2	4214.1n	46- - .36	9424.96	4393.9O	12.n2	ppb
RhdqTum	1O- 01				1O3		%
RhdqTum	1O- 02				n6		%
SAaoqTum	4901				1O3		%
SAaoqTum	49O2				8n		%
SeleoTum	8201	1.91	1.61	1.6-	1.98	4.14	ppb
SeleoTum	33O2	84.- -	88.3O	1O9.8-	n2.n9	12.2-	ppb
SeleoTum	38O2	1n.11	2O.96	24.99	21.41	1- .19	ppb
STTAdo	2801	1- 1.n1	126.3O	1- 6.69	1- 1.39	- .38	ppb
STver	1O301	O.19	O.16	O.19	O.16	9.14	ppb
STver	1On01	O.16	O.16	O.1n	O.13	11.46	ppb
SdqTum	2- 02	8- .OO	n4.21	1- 2.O6	1O- .On	24.n4	ppb
SDdoDTum	8601	49.89	44.O6	49.98	49.13	2.1-	ppb
SDdoDTum	8801	44.n2	4- .31	49.6-	44.39	2.13	ppb
Sulfur	- 401	022n2.O8	02941.13	02- n1.49	024O8.2-		ppb
&erbTum	19n01				11O		%
&erbTum	19n02				n3		%
&hallTum	2O- 01	O.2n	O.23	O.2n	O.28	- .- 8	ppb
&hallTum	2O901	O.23	O.2n	O.23	O.28	- .nn	ppb
&TD	11801	2.- 1	2.4-	2.98	2.44	9.96	ppb
&TaoTum	4301	282.3n	238.22	283.49	282.82	1.6-	ppb
UraoTum	2- 801	2.O3	2.16	2.12	2.12	2.1n	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0lr :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0lr :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
VaoaqTum	91O2	1n.nn	21.4-	29.12	22.18	11.n-	ppb
YDerbTum	13201						Aps
YDerbTum	13202						Aps
YDerbTum	13601						Aps
YDerbTum	13602						Aps
YDDTum	8n01				12-		%
YDDTum	8n02				111		%
ZTbA	6602	163.23	189.12	214.92	188.n3	12.6-	ppb
ZTAdoTum	nO01	O.86	O.88	O.n1	O.8n	2.68	ppb
ZTAdoTum	n101	O.n4	O.88	O.82	O.88	6.n4	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTop:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTI wb D8 :t&:9	y h SF2-	&8mTon:FwqTop:9	1
&wTr :i :Adb r : qdmqpr O:9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FU0

Nwpwb r Tr p	y wl l	v onCr D1	v onCr D2	v onCr D-	gM:v onqU	v onqCI &	RndT
8mb cncmb	2072	1S10aU46	1S245U21	1S1SaU5J	1S10aUa0	SU65	DDe
nTb on%	12171	SUJ5	SU61	SU6a	SU6-	0U02	DDe
pl r ncq	0J72	1JU0S	1JU5J	16U15	1JU5J	1UJ-	DDe
Bwpcmb	1- J71	202U06	206U0a	251Ua-	2aSU46	- UJ5	DDe
Bwpcmb	1- 071	20JU1S	205U42	25aUSJ	2a4U15	4U25	DDe
Br p%8cmb	571	2U40	2U4a	2U62	2UJ2	- U24	DDe
Bd b mTE	2S571				11S		G
Bd b mTE	2S572				1SJ		G
Bpob cnr	a171						qDl
v wOb cmb	1Sa71	2U02	1U54	2U6-	2U4-	10UJ0	DDe
v wOb cmb	1S671	1U-1	SU6a	7SUS0	SU64	1SaU-2	DDe
v wOb cmb	11171	1U2S	1U-0	1U2J	1U20	6U6S	DDe
v w8qcmb	4- 71	22- 0aU0a	22645Ua4	24124U26	2- SJSU56	4USa	DDe
v w8qcmb	4471	2- 4- 5UJ5	2- JJ2U16	24041U01	2- 511U1J	- US2	DDe
v wpeon	1271						qDl
v wpeon	1272						qDl
v E8pcnr	- J71						qDl
v E8pcnr	- J72						qDl
v Epob cmb	J272	14Ua1	14U6a	1JUS6	14UaJ	1U25	DDe
v oewBT	J572	1SU61	1SU-6	1SUJJ	1SUJ1	1U24	DDe
v oDDr p	6- 72	2aU0S	2aUJ1	2aUaS	2aU60	SUJ-	DDe
&%Dpol cmb	1J671						qDl
&%Dpol cmb	1J672						qDl
. pecmb	16471						qDl
. pecmb	16472						qDl
HwOo8ncmb	16S71						qDl
HwOo8ncmb	16S72						qDl
h o8b cmb	16J71				11-		G
h o8b cmb	16J72				1S4		G
tnOcmb	11J71				1Sa		G
tnOcmb	11J72				50		G
tpon	J472	20J46U10	20145U55	260- - UJ-	2014- U2-	1UJS	DDe
tpon	J672	26265U-J	20SJ1U15	26224U-1	26J14U5J	1U0J	DDe
tpon	J072	24aJ4U55	2J201U02	24515U2S	2JS1JU-S	SU5S	DDe
Kp%DTon	a- 71						qDl
Lr wO	2S671	5SU1S	52U4-	5- U52	52U1J	2US5	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTI wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O:9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FUD

NwpwbrTrp	ywll	vonCrD1	vonCrD2	vonCrD-	gMUvonqU	vonqCI &	RndT
LrwO	2S071	a6U45	a0Ua4	51U25	aaUJ4	2U05	DDe
LrwO	2Sa71	a5U11	a5UJ0	52U01	5SU40	2U10	DDe
LdEomb	671				1SS		G
ywMhrlomb	2472	6J16U16	64J-U02	640SU44	64aSU11	SUJS	DDe
ywnMwnrlr	JJ72	JJ4U1J	J61U6S	JJ2U1a	JJJU5a	SUa5	DDe
yo8%eOrnmb	5471	21U06	22UJ4	2-U0S	22U60	4U25	DDe
yo8%eOrnmb	5J71	1UJJ	1UJ5	1U40	1U4S	4UJ2	DDe
yo8%eOrnmb	5671	-UJ4	-UJ4	-U65	-UJ-	4U5-	DDe
yo8%eOrnmb	5071	1UJ4	1U21	1UJS	1UJJ	1SU6a	DDe
yo8%eOrnmb	5a71	1U24	1U26	1U4-	1UJ1	aUS2	DDe
uroO%bomb	1JS71						qDl
uroO%bomb	1JS72						qDl
ucqkr8	6S72	21U12	2SU4J	21U1J	2SU51	1U51	DDe
NEolDEopml	-172	246aU5S	2462U24	2-25U02	242SU25	-U24	DDe
NoTwlomb	-572	J-S2USO	J-21U6a	J424U6-	J-45U46	1U2-	DDe
CEoOomb	1S-71				1S6		G
CEoOomb	1S-72				1S2		G
lqwnOomb	4J71				1S6		G
lqwnOomb	4J72				5J		G
lr8nomb	a271	1US1	SUa5	1UJ1	1U14	25US1	DDe
lr8nomb	0072	4SUa5	4-U1S	-6US1	4SUSS	5USO	DDe
lr8nomb	0a72	11U6J	1SUJS	5US6	1SUJ4	12UJ0	DDe
lo8qon	2a71	2SJU5S	2SaUJ0	22-U1-	212U40	4UJa	DDe
lo8grp	1S071	SUJJ	SUJS	SUJ-	SUJ2	4Ua4	DDe
lo8grp	1S571	SU4a	SU62	SUJ4	SUJJ	12U0a	DDe
loOomb	2-72	146U22	146USJ	146USS	146US5	SUSa	DDe
lTponTomb	a671	1S-USO	1S6UJ4	11-U1-	1S0UJa	4U0J	DDe
lTponTomb	aa71	1S5U5-	11SUJ4	115U05	11-U42	4Ua0	DDe
lm8mp	-471	71-a4U41	7125-U6S	7J11U45	71S6-U10		DDe
Arpeomb	1J571				111		G
Arpeomb	1J572				1S-		G
AEw8omb	2S-71	SU2S	SU2S	SU22	SU21	6USS2	DDe
AEw8omb	2SJ71	SU22	SU2S	SU22	SU21	6U2-	DDe
Aon	11a71	4UJ-	-U16	-UJ1	-U60	16U4-	DDe
AcTwnomb	4071	1J0USS	1J0U22	164U11	1J5U44	2UJ4	DDe
Rpwnomb	2-a71	2U66	2U64	2U05	2U0S	-USS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTl wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O.9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FU0

NwpwbrTrp	y wl l	v onCr D1	v onCr D2	v onCr D-	gMU:v onqU	v onqCl &	RndT
VwnwOcmb	J172	- 5U44	- 5U46	4SU46	- 5U05	1U40	DDe
YTTr pecmb	10271						qDl
YTTr pecmb	10272						qDl
YTTr pecmb	10671						qDl
YTTr pecmb	10672						qDl
YTTpcmb	a571				11-		G
YTTpcmb	a572				1S6		G
Zcnq	6672	021Ua5	0- SU14	0- 1U2-	020U0J	SU0S	DDe
Zcpqonmb	5S71	11UJ6	12USS	12Ua1	12U12	JU24	DDe
Zcpqonmb	5171	11Ua5	11U50	12U05	12U22	4U1S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CRe5&psml Re9D 9J9	3Bp 7	t AR&N59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129I0J1 J-4	t s&sUAR9Nsme9J	S 7CCB. FO

3srsmea&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRumA5Aum	20:2	SF06	1F S	2F2S	1F62	46F81	l l b
c5&Amn5h	121:1	SF51	SF51	SF51	SF51	70F74	l l b
crwe5Aq	0-:2	SF57	:SF51	SF5S	SF51	7-SF87	l l b
BsrAum	17-:1	SF51	SF58	SF50	SF5-	06F17	l l b
BsrAum	170:1	SF56	SF51	SF56	SF54	02F 0	l l b
BerhFAum	:1	SF5S	SF51	SF51	SF51	42F 0	l l b
BAumu&%	2S :1				1S		E
BAumu&%	2S :2				-		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	:SF14	:SF1S	:SF52	:SF5		l l b
CsOmAum	1S6:1	:4F64	:6F08	: F56	:6F87		l l b
CsOmAum	111:1	:SF57	:SF50	:SF1S	:SF50		l l b
CsRqAum	47:1	:SF06	7F22	11F1	4F-	177F0-	l l b
CsRqAum	44:1	:1F 1	2F6S	F68	7F46	168F S	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%RrA5e	7-:1						ql w
C%RrA5e	7-:2						ql w
C%nmAum	-2:2	SF5-	SF20	SF1S	SF14	86F6-	l l b
CnbsR&	- :2	SF51	SF5S	SF5S	SF5S	60SF S	l l b
CnI I er	67:2	SF1-	SF74	SF10	SF22	40F62	l l b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S		E
HnRmAum	16-:2				4		E
D5OAum	11-:1				1S		E
D5OAum	11-:2				8		E
Dn5	-4:2	1F2-	2F1-	7F40	2F2	48F00	l l b
Dn5	-6:2	SF46	1F02	4F22	2F17	8 F0	l l b
Dn5	-0:2	:1F77	2F 8	0F7S	2F 8	144F67	l l b
KrhI &n5	87:1						ql w
LesO	2S6:1	SF52	SF51	SF54	SF52	07F87	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S2	SF5S0	SF5S-	SF5S4	-4F18	I I b
LesO	2S8:1	SF5S4	SF5S7	SF5S7	SF5S7	7F8S	I I b
LA&%Aum	6:1						E
y sM5ewAum	24:2	SF6	SF-8	1F88	1F5S-	68F7	I I b
y s5Ms5ewe	- - :2	SF5S6	SF14	SF18	SF17	4 F77	I I b
y nPbOe5um	4:1	SF5SS	SF5S1	SF5S-	SF5S2	14SF5S8	I I b
y nPbOe5um	- :1	SF5SS	SF5SS	SF5S7	SF5S1	127F5S8	I I b
y nPbOe5um	6:1	SF5S2	SF5SS	SF5S7	SF5S2	0 F-6	I I b
y nPbOe5um	0:1	SF5S7	SF5S1	SF5S2	SF5S2	-0F-7	I I b
y nPbOe5um	8:1	SF5S1	SF5SS	SF5S1	SF5SS	- F-6	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	:SF5S2	SF5SS	SF5S6	SF5S1	2-4F1S	I I b
3%nwl %nruw	71:2	:0SF-7	:-SF06	:4 F81	:-0F5S7		I I b
3n&swwAum	7 :2	:11F22	28F07	:8F08	2F 1	06 F72	I I b
v %nOAum	1S7:1				1S0		E
v %nOAum	1S7:2				7		E
pqs5OAum	4- :1				1S-		E
pqs5OAum	4- :2				8-		E
pe&e5Aum	82:1	:SF71	:SF28	:SF-8	:SF7		I I b
pe&e5Aum	00:2	:SF78	:SF78	SF0	SF5S1	64 2F46	I I b
pe&e5Aum	08:2	:SF41	SF78	SF12	SF5S7	1461F6-	I I b
pAqn5	28:1	:SF7S	:SF20	:SF24	:SF20		I I b
pAger	1S0:1	SF5S2	SF5S2	SF5S1	SF5S2	48F8S	I I b
pAger	1S :1	SF5S1	SF5S1	SF5S1	SF5S1	14F5S4	I I b
pnOAum	27:2	:14F-8	10F-1	:14F6-	:7F S		I I b
p&n5&Aum	86:1	:SF5S4	SF5S7	SF17	SF5S4	21 F84	I I b
p&n5&Aum	88:1	SF5S2	SF5S2	SF5S-	SF5S7	02F	I I b
pu&ur	74:1	:2 61F60	:2678F1-	:2448F5S7	:2682F62		I I b
i erbAum	1- :1				1S8		E
i erbAum	1- :2				2		E
i %sPAum	2S7:1	SF5S4	SF5S2	SF5S-	SF5S4	78F12	I I b
i %sPAum	2S-:1	SF5S2	SF5S7	SF5S7	SF5S7	14F2S	I I b
i A5	118:1	:SF5S7	SF5SS	SF5SS	:SF5S1		I I b
i A&5Aum	40:1	SF5SS	SF5S1	:SF5S	:SF5S2		I I b
Rrs5Aum	278:1	SF5SS	SF5SS	SF5SS	SF5SS	2 1F64	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129l0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	- 1:2	:SF5S2	SF5S1	SF5S2	SF5S1	266F20	l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S6		E
Y&&Aum	8 :2				8		E
ZA5q	66:2	SF5	SF17	SF20	SF16	- F4S	l l b
ZAqn5Aum	S:1	SF5S1	SF5S	SF5S	SF5S	160F2	l l b
ZAqn5Aum	1:1	:SF5S1	:SF5S2	SF5S1	SF5S		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J10a22a-	t w&WUA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c 8mb A5Amb	2092	77F6-	72FNS	7NF0N	7-FSN	F22	l l e
c 5&b n5h	12191	7F4S	2F 7	7F10	7F10	0F71	l l e
cpl r 5Aq	0-92	1F07	1F0N	1FN2	1F0N	2F64	l l e
BwpAmb	17-91	10F4S	1-F40	16F-N	16F4N	-FNN	l l e
BwpAmb	17091	10F14	1-F42	1-FN2	16F17	-F-N	l l e
Br ph8Amb	91	1F0-	1F64	1F-4	1F64	6F47	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S4		E
Bpmb A5r	N191						qll
CwOb Amb	1SN91	1F40	1F7	1FN1	1F-6	14F4	l l e
CwOb Amb	1S691	97FS-	94FS6	97F76	97F4		l l e
CwOb Amb	11191	1FN	1F6S	1F6S	1F0S	F6-	l l e
Cw8pAmb	4791	N11F0	04NF-N	0SNFS6	0-6F20	6F 1	l l e
Cw8pAmb	4491	N7SF77	077F04	02SF6N	061F-N	0FN6	l l e
Cwpen5	1291						qll
Cwpen5	1292						qll
C%8np5r	7-91						qll
C%8np5r	7-92						qll
C%pmb Amb	-292	7F72	7F7N	7F2N	7F77	1F-	l l e
Cnew8&	- 92	1F04	1F02	1F00	1F04	1F7	l l e
CnI l r p	6792	7F64	7F66	7F0S	7F60	SFN7	l l e
t hl l pnl Amb	1-691						qll
t hl l pnl Amb	1-692						qll
. peAmb	16491						qll
. peAmb	16492						qll
GwOn8A5Amb	16S91						qll
GwOn8A5Amb	16S92						qll
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S7		E
D5OAmb	11-91				1S1		E
D5OAmb	11-92				N		E
Dpn5	-492	776F-	7-4F66	740FNS	746F74	2F64	l l e
Dpn5	-692	741F60	746F1S	74 F27	74-F60	1F1S	l l e
Dpn5	-092	74-F61	77NF1S	74-F-N	747F1S	1F26	l l e
Kphl 8a5	N791						qll
LrwO	2S691	1F04	1F-4	1F44	1F-N	F-7	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ A8 r Jc qdmAr QJa	2S279S0912J10a22a-	t w&wUA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-7	1F-1	1F-0	4F N	l l e
Lr wO	2SN91	1F6N	1F-7	1F4	1F-0	6F40	l l e
LA%Amb	691				4		E
y wW5r l Amb	2492	N6NF42	N61F0S	N00FS	N6 FS0	SFN	l l e
y w5Mw5r l r	- - 92	1FN6	1F0S	1F S	1FN2	- F60	l l e
y n8neOr 5mb	491	F6-	NF 6	NF16	NF 7	NF7-	l l e
y n8neOr 5mb	- 91	NFS1	0F-0	6F 4	0F-S	0F10	l l e
y n8neOr 5mb	691	NF7	0F40	0F-6	0FN1	6F4	l l e
y n8neOr 5mb	091	NF61	0F64	0F62	0F 6	0FSN	l l e
y n8neOr 5mb	N91	NF1S	0F66	0FS1	0F-	0F24	l l e
u r nOhb Amb	1- S91						ql l
u r nOhb Amb	1- S92						ql l
u Aqkr 8	6S92	1F66	1F0	1FN6	1F00	- F06	l l e
3 %nl l %npm	7192	966F42	94 F- -	904F71	967F47		l l e
3 n&wl Amb	7 92	0NSF6S	0 4F12	N2SF67	0 NF4-	2F- -	l l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S7		E
: qw5OAmb	4- 91				N		E
: qw5OAmb	4- 92				4		E
: r 8 5Amb	N291	F-2	FSN	0F00	NF0	1SF70	l l e
: r 8 5Amb	0092	NF 7	6F4N	1SF 4	NF0N	2- F41	l l e
: r 8 5Amb	0N92	0F01	FS2	- F2N	0F74	2- F S	l l e
: A8qn5	2N91	1F7-	SFN7	SF0-	SF N	77F20	l l e
: A8gr p	1S091	1F02	1F-	1F60	1F66	4FS7	l l e
: A8gr p	1S 91	1F04	1F-4	1F62	1F64	6F22	l l e
: nOAmb	2792	N2- FN6	N1NF76	N70F14	N20F12	1F14	l l e
: 8pn5 8Amb	N691	1F02	1F62	1F6	1F60	7FS-	l l e
: 8pn5 8Amb	NN91	1F04	1F60	1F-7	1F6-	6F61	l l e
: m8mp	7491	9126SF42	92120F2	92774F6S	91 S0F44		l l e
i r peAmb	1- 91				1S7		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F6	1F-1	1F-6	1F-	- FN	l l e
i %w8Amb	2S- 91	1F6-	1F4N	1F4N	1F-4	6F77	l l e
i A5	11N91	SFS	SFSS	9SFS7	SFS2	740F1	l l e
i A&w5Amb	4091	NF 2	0F67	0F-S	NFS2	F0N	l l e
Rpw5Amb	27N91	1F-N	1F46	1F42	1F4N	- F4N	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J10a22a-	t w&WJA8 Ju wb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF6S	NF-4	NFN7	NF66	1F00	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91						E
Y8&pAmb	N 92				N		E
ZA5q	6692	NF61	NFN1	NF06	NF02	1F1N	l l e
ZAqn5Amb	S91	1F64	1F4N	1F-6	1F-6	-FS0	l l e
ZAqn5Amb	191	1F60	1F-	1F-S	1F-0	-F6S	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fldl

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
AlNu ioiNu	20 2	215n6U6-	2S542U-1	21- n7U7n	2110nU27	2U65	ppm
Aotiu Oo%	121 1	SU7-	SU01	SU60	SU04	11U51	ppm
Aesboic	05 2	10U51	10U50	17U-5	10U71	2U61	ppm
BaeiNu	1- 5 1	- 4nUS1	- 2SUn5	- S7U10	- 26US4	6U41	ppm
BaeiNu	1- 0 1	- 5- U-4	- 2SU02	- 11US4	- 27U-0	6U05	ppm
Bbe%liNu	n 1	2US6	1Un0	1U74	1Un6	5U6S	ppm
Bisu NtE	2Sn 1				1S-		G
Bisu NtE	2Sn 2				1S0		G
BeOu iob	71 1						cps
v adu iNu	1S7 1	1U2S	1U17	1U14	1U10	2U72	ppm
v adu iNu	1S6 1	SU14	- U22	- U24	2U2S		ppm
v adu iNu	111 1	1U-1	1US5	1USS	1U12	15U17	ppm
v alciNu	4- 1	- 2612U50	2n- 07USS	277- - US-	- S204U54	6U05	ppm
v alciNu	44 1	- - 66nU45	2nn57U-1	2n1n0U10	- Sn41U65	0U0-	ppm
v aemOo	12 1						cps
v aemOo	12 2						cps
v ElOeiob	- 5 1						cps
v ElOeiob	- 5 2						cps
v EeOu iNu	52 2	26U77	26US5	26U57	26U5S	1U5n	ppm
v Omalt	5n 2	15U1S	14U64	15U06	15U10	- U02	ppm
v Oppbe	6- 2	- nU55	- 7US2	4SUn5	- nU51	- U0S	ppm
D%speOsiNu	156 1						cps
D%speOsiNu	156 2						cps
. emiNu	164 1						cps
. emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
h Olu iNu	165 1				1S5		G
h Olu iNu	165 2				1S5		G
IodiNu	115 1				1S-		G
IodiNu	115 2				1SS		G
IeOo	54 2	46- 71U-7	4515nU6n	40S00US2	462S6US-	2U1S	ppm
IeOo	56 2	45502U25	440S6U2n	46055U42	45600Unn	2U25	ppm
IeOo	50 2	46650U56	444S0Un6	406n0U16	46254U2-	- U6-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	6- U6-	50U1-	5- U00	57U17	7U61	ppm

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v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fud

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
Lbad	2S0 1	6SU4-	54U46	52U1n	55U6n	0U64	ppm
Lbad	2S7 1	61U57	55U7S	5- U14	56U74	0U5n	ppm
LitEiNu	6 1				nn		G
y aMobsiNu	24 2	1- S- 4U05	12222U-n	12n64U25	1204SU46	- U5-	ppm
y aoMaobsb	55 2	n1nUhn	nS4U64	n40U27	n2- Uh0	2U-4	ppm
y Ol%mdboNu	n4 1	7US1	0U1S	0U-S	0U40	6U44	ppm
y Ol%mdboNu	n5 1	2U21	2U11	2USS4	2U12	- Uh1	ppm
y Ol%mdboNu	n6 1	2U71	2U44	2U61	2U62	0U10	ppm
y Ol%mdboNu	n0 1	2U1S	1Uhn	2U14	2USS0	- U67	ppm
y Ol%mdboNu	n7 1	2U-0	1U7n	1Uh5	2USS0	12U04	ppm
8 bOd%u iNu	15S 1						cps
8 bOd%u iNu	15S 2						cps
8 ickbl	6S 2	- nUS1	- 7U44	4SUhS	- nU45	- U20	ppm
PEOspEOeNs	- 1 2	1n16U47	1015U62	1752U1S	1727USS0	5U61	ppm
POtassiNu	- n 2	6- 06U67	6122USS0	6467USS4	6- 22U26	2U74	ppm
CEOdiNu	1S- 1				1S1		G
CEOdiNu	1S- 2				1S4		G
r caodiNu	45 1				1S1		G
r caodiNu	45 2				n7		G
r blboiNu	72 1	1Uh6	2U21	1Uh4	2USS4	0U-0	ppm
r blboiNu	00 2	- 7US1	47USS7	45U1-	4- U04	11U74	ppm
r blboiNu	07 2	7U04	7U60	1SU70	nU4-	1- U2n	ppm
r ilicOo	27 1	2S- U44	17- U-n	171Uhn	17nU61	6U-	ppm
r ilgbe	1S0 1	SU-6	SU-1	SU27	SU-2	12U05	ppm
r ilgbe	1Sn 1	SU-0	SU-1	SU27	SU-2	14U60	ppm
r OdiNu	2- 2	161U17	147U-n	156U12	155U2-	4U15	ppm
r teOotiNu	76 1	1- 2U16	117U6-	115U-S	122USS-	0U-2	ppm
r teOotiNu	77 1	1- 4U14	124U70	117U-n	125U7S	6U2n	ppm
r NfNe	- 4 1	2U77	1S6- U75	1152U47	0- nU04		ppm
TbemiNu	15n 1				1S5		G
TbemiNu	15n 2				1S5		G
TEalliNu	2S- 1	SU6S	SU56	SU4n	SU55	1SU4-	ppm
TEalliNu	2S5 1	SU57	SU5-	SU5S	SU54	0U05	ppm
Tio	117 1	1Uh4	1U65	1U65	1U04	nU50	ppm
TitaoiNu	40 1	1- 0U7n	122U56	12SU5n	120USS1	0U45	ppm
ReaoiNu	2- 7 1	2U54	2U-	2U24	2U-0	6U46	ppm

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v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fldl

Paeau btbe	y ass	v CoCbp1	v CoCbp2	v CoCbp-	AgMJv CocU	v CocCr D	Roits
VaoadiNu	51 2	60U65	65U-	60U07	66Ul2	2U56	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				1S0		G
YtteiNu	7n 2				11-		G
Zioc	66 2	250U44	247U6-	262U5S	256U1n	2U04	ppm
ZiecCoiNu	nS 1	- U64	- U12	- US7	- U27	nU45	ppm
ZiecCoiNu	n1 1	- U-0	- U17	- US6	- U2S	4U70	ppm

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAm	20 2	2S4- 0U57	22524U60	21466U6J	216S5U00	JU07	l l b
cn&mon%	121 1	SU64	SU01	SU6S	SU6J	7U7J	l l b
crwenAq	0J 2	10U-6	2SU-1	17U47	17U02	0U5J	l l b
BsrAm	1- J 1	- SJU52	- 15U5J	- S7U40	- 11U4J	2U4S	l l b
BsrAm	1- 0 1	- S5U51	- 2JU22	- SJU4-	- 1- UJ2	- U1	l l b
Ber%RAm	5 1	1U74	1U72	1U71	1U72	SU54	l l b
BAmu&E	2S5 1				1S0		G
BAmu&E	2S5 2				1SJ		G
BromAe	71 1						ql w
v sOmAm	1S7 1	SU57	1U-1	1U2J	1U17	1JU12	l l b
v sOmAm	1S6 1	2U75	SU25	4UJ5	2U4S		l l b
v sOmAm	111 1	1US-	1US7	1US-	1USJ	2U07	l l b
v sRqAm	4- 1	27140U27	25677U76	26547U26	27261U40	4U76	l l b
v sRqAm	44 1	254JSU-7	- S02SU0-	27J- SUSS	25J60US4	- U02	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	- J 1						ql w
v ERrAe	- J 2						ql w
v EromAm	J2 2	2JU-5	27U77	20U60	20U-1	6U45	l l b
v obsR&	J5 2	14U71	16UJS	1JU6-	1JU6J	JU-5	l l b
v ol l er	6- 2	- 7U44	42UJ0	41USS0	4SU65	JU1J	l l b
t %w l rowAm	1J6 1						ql w
t %w l rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
h oRmAm	16J 1				1S5		G
h oRmAm	16J 2				1SJ		G
DnOAm	11J 1				1S7		G
DnOAm	11J 2				55		G
Don	J4 2	4J042U45	JS11SU46	47- 51U25	47S71U41	4UJ7	l l b
Don	J6 2	4- 50JU61	45J52U1J	46616U-6	46027USS4	6US1	l l b
Don	J0 2	4450- USS	457- - U60	4025JU1-	40- 60U20	JU1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J6U7-	J6U1J	JJU--	J6U11	1U-4	l l b

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Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	J-U65	J2U77	J1U51	J2U72	1U65	l l b
LesO	2S7 1	J4U56	J4U55	J-UJ2	J4U45	1UJJ	l l b
LA&EAum	6 1				1S2		G
y sMnewAum	24 2	12S0-U5S	1-2-JU21	12652UJ2	12660U14	4UJ5	l l b
y snMsnewe	JJ 2	775U7S	1SS5U21	546U01	547UJ7	6UJS	l l b
y oP%bOenum	54 1	0U14	0US0	6U5-	0USJ	1U47	l l b
y oP%bOenum	5J 1	1U76	1U77	1U50	1U5S	-US7	l l b
y oP%bOenum	56 1	2U42	2U47	2UJ5	2UJS	-UJ-	l l b
y oP%bOenum	50 1	2US-	1U5-	1U07	1U51	6UJ1	l l b
y oP%bOenum	57 1	1U5S	2USJ	1U5-	1U56	4US4	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	-7U6-	4-U10	41UJ-	41U11	JUJ5	l l b
8EowI Eoruw	-1 2	1661U5J	17S4U76	17-5U5-	1067U51	JUJ-	l l b
8o&swwAum	-5 2	J50JUJ2	60SJU05	6467U2S	6-7-U1S	JU74	l l b
CEoOAum	1S- 1				1S4		G
CEoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				50		G
pe&enAum	72 1	1UJ-	2U02	1UJ0	1U70	-5UJS	l l b
pe&enAum	00 2	-1U02	47US6	42U64	4SU71	2SUJ5	l l b
pe&enAum	07 2	0UJ4	5UJ5	7U64	7UJ2	1SU75	l l b
pAqon	27 1	171U7S	151U5-	101U4S	171U01	JU6J	l l b
pAger	1S0 1	SUJ2	SUJ-	SU20	SUJ1	5UJ4	l l b
pAger	1S5 1	SUJ2	SUJ-	SUJS	SUJ1	4U67	l l b
poOAum	2- 2	140U5S	165U42	1J0US6	1J7U1-	6U7-	l l b
p&ona&um	76 1	114UJ2	11JUS7	112UJJ	114USJ	1U10	l l b
p&ona&um	77 1	12SU40	12-U1S	110U5S	12SU45	2U16	l l b
pulPur	-4 1	12S6U40	7SJU67	16-1U04	1214U6-		l l b
i erbAum	1J5 1				1S5		G
i erbAum	1J5 2				1SJ		G
i EsPAum	2S- 1	SUJ6	SUJ2	SUJS	SUJ-	6U11	l l b
i EsPAum	2SJ 1	SUJ-	SUJ1	SUJ-	SUJ2	2U71	l l b
i An	117 1	1UJ7	1U6J	1U66	1U6-	2U7J	l l b
i A&snAum	40 1	117U22	124U45	11-U76	117U76	4UJS	l l b
RrsnAum	2-7 1	2UJ-	2UJ7	2UJS	2UJ4	1U06	l l b

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Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	J1 2	64U72	01U51	67UJ0	67U4-	JU15	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				11-		G
Y&&Aum	75 2				1S5		G
ZAnq	66 2	2JSUJS	207US2	26JUJ-	264U67	JU21	l l b
ZAqonAum	5S 1	- US7	- U11	- USS	- US6	1U5J	l l b
ZAqonAum	51 1	- US2	- USJ	- USS	- US2	SU0S	l l b

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LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Rent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
ARminium	23X2	R6 U4	- 616U1R	422RU33	46O- U33	26U43	ppb
Antimony	121X1	OU13	OU1	OU1	OU1	3U16	ppb
Arwenic	3 X2	U24	- U21	4UO3	4U10	24U0	ppb
Bsrium	1- X1	RU4O	6OU06	6 U2R	61U0	4UR6	ppb
Bsrium	1- 3X1	RU20	6 UOO	64U2	62UR6	UOO	ppb
BeryRium	RX1	OU	OU3	OU4O	OU3	3U24	ppb
Biwmuth	2ORX1				1OR		%
Biwmuth	2ORX2				1O-		%
Bromine	01X1						cpw
v sdmium	1O0X1	OUOO	OU46	OUOR	OU21	1OOUR2	ppb
v sdmium	1O6X1	X4U -	X2U30	X4U21	X UO4		ppb
v sdmium	111X1	OU10	OU1	OU13	OU13	3U6	ppb
v sRium	4- X1	226UO3	342U44	33 U6R	01U63	U 1	ppb
v sRium	44X1	0- U4-	R62U22	6124U12	00RUR2	4U31	ppb
v srbon	12X1						cpw
v srbon	12X2						cpw
v hRorine	- X1						cpw
v hRorine	- X2						cpw
v hromium	2X2	3U4	4U1	U 1	U32	26U3O	ppb
v obsRR	RX2	4UO	2U6O	- U13	- U6	2 U3-	ppb
v opper	6- X2	11U 1	6URO	0U2-	0UO0	26U33	ppb
Dywprowium	1 6X1						cpw
Dywprowium	1 6X2						cpw
Frbium	164X1						cpw
Frbium	164X2						cpw
GsdoRnium	16OX1						cpw
GsdoRnium	16OX2						cpw
9 oRnium	16 X1				1OR		%
9 oRnium	16 X2				1O2		%
Indium	11 X1				1O		%
Indium	11 X2				R0		%
Iron	4X2	12264UO1	3- 22U01	03- 2U02	R4- RU00	26URR6	ppb
Iron	6X2	12064U14	3001UO	R166U1O	RR3OU 1	2 UR	ppb
Iron	3X2	12OO6U	32R- UR2	0611UR0	R- O4UOR	26U1-	ppb
Krypton	0- X1						cpw
Lesd	2O6X1	1OUO3	1OU02	1OUR6	1OU62	4U43	ppb

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LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpPe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Pent:SsmpPe:ID:J	H9 O. 60L	DiPtion:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iPe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Lesd	2O3X1	RU3-	1OU2	1OU2R	1OU10	- URO	ppb
Lesd	2O0X1	RURO	1OU63	1OU32	1OU4	4UO	ppb
Lithium	6X1				RR		%
HsMhewium	24X2	- - 3- U23	2O1RU4-	242RU30	26O3UO	26U62	ppb
HsnMsnewe	X2	26OU 1	16OU4R	1R1U02	2O4U23	2 UO	ppb
HoPybdenum	R4X1	1U2	1U 2	1U43	1U41	1OU2R	ppb
HoPybdenum	R X1	OUJ O	OU4O	OUJ0	OUJ6	14U01	ppb
HoPybdenum	R6X1	OU4R	OU43	OU 4	OU O	3U31	ppb
HoPybdenum	R3X1	OU4O	OUJ4	OU 2	OU42	21U01	ppb
HoPybdenum	R0X1	OUJ3	OU4-	OU42	OU41	0U2O	ppb
Neodymium	1 OX1						cpw
Neodymium	1 OX2						cpw
NickeP	6OX2	11U3-	3U02	0U46	RU03	26U6O	ppb
8howphoruw	- 1X2	1 U3	214U -	- 20UJ6	- 2U00	4- U1O	ppb
8otswwium	- RX2	1012U4	1O10UJ0	126 U23	1- 6 UJ3	2RU36	ppb
Ehodium	1O- X1				1O6		%
Ehodium	1O- X2				1O1		%
Scsndium	4 X1				1O6		%
Scsndium	4 X2				R-		%
SePenium	02X1	OU0R	OU24	XOU0	OU0R	1 2U30	ppb
SePenium	33X2	0U36	0U66	3U 0	0UJ4	3U0	ppb
SePenium	30X2	- U04	1U 1	2U13	2U 1	43U04	ppb
SiPcon	20X1	- 2URO	- 6U03	- 6U66	- U2-	U64	ppb
SiPger	1O3X1	OU06	OU0	OU0	OU06	0U43	ppb
SiPger	1ORX1	OU03	OU00	OU00	OU00	0U31	ppb
Sodium	2- X2	2U01	X U33	1 U23	2OU33	142U0R	ppb
Strontium	06X1	21U01	2- U03	24U11	2- U26	U4-	ppb
Strontium	00X1	21URO	2- U32	24U33	2- U4R	URR	ppb
SuPur	- 4X1	X246OU0	X1R13UJ O	X1ROR U0-	X2OR U46		ppb
Terbium	1 RX1				1O0		%
Terbium	1 RX2				1O-		%
ThsPrum	2O- X1	OU12	OU12	OU12	OU12	1UJ0	ppb
ThsPrum	2O X1	OU0R	OU1O	OU11	OU1O	RU6	ppb
Tin	110X1	OU26	OU20	OU2O	OU2	10U10	ppb
Titsnium	43X1	22U26	2- U21	24U12	2- U2O	4U0O	ppb
Crsnium	2- 0X1	OU42	OU46	OU46	OU4	U06	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Rent:SsmpRe:ID:J	H 9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Vsnsdium	1X2	10U32	11U3	1- U6R	14U66	2 UD	ppb
Ytterbium	132X1						cpw
Ytterbium	132X2						cpw
Ytterbium	136X1						cpw
Ytterbium	136X2						cpw
Yttrium	0RX1				1O3		%
Yttrium	0RX2				RR		%
Zinc	66X2	34U64	44U3	1U10	6U06	23U63	ppb
Zirconium	ROX1	OU 0	OU6-	OU63	OU6-	3U06	ppb
Zirconium	R1X1	OU R	OU61	OU61	OU61	1U03	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
cRmAAm	20 2	2- S- 0U46	2- 11SU15	2- - J1U4J	2- 166U0	SU01	l l b
cn&mon%	121 1	17U4J	17U62	17U2S	17U42	1U14	l l b
crwenAq	0J 2	2JUJ-	2JU42	2JU6-	2JUJ-	SU42	l l b
BsrAm	1- J 1	016US6	0S5U6	010UJ1	014U1	SU61	l l b
BsrAm	1- 0 1	001U72	060U40	065U75	065U0-	SU27	l l b
Ber%RAm	5 1	12UJ6	12US5	11U70	12U10	2U75	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1SJ		G
BromAe	71 1						ql w
v sOmAm	1S7 1	5U21	5U2S	5U67	5U0	2U52	l l b
v sOmAm	1S6 1	7UJ4	7U7	0U42	7U11	0U44	l l b
v sOmAm	111 1	11US4	1SU02	11U42	11US6	- U17	l l b
v sRqAm	4- 1	27774U72	2752- U74	27727UJ7	27705US7	SU10	l l b
v sRqAm	44 1	250J6U4	2576- U47	25J4JU14	25021U66	SUJ4	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	- J 1						ql w
v ERrAe	- J 2						ql w
v EromAm	J2 2	01U4-	65U5	01U05	0SU70	1U7-	l l b
v obsR&	J5 2	122U4-	122U64	12- UJ-	122U70	SU47	l l b
v ol l er	6- 2	5- U56	54U0	5JU2S	54UJ1	SU60	l l b
t %wl rowAm	1J6 1						ql w
t %wl rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
hoRmAm	16J 1				1S7		G
hoRmAm	16J 2				1S6		G
DrOAm	11J 1				1SJ		G
DrOAm	11J 2				55		G
Don	J4 2	4722- U77	40J24U54	4052- UJ4	4075SU05	SU0-	l l b
Don	J6 2	40J- 6U0-	401- JU6	47S70U40	40J76UJ2	1USS	l l b
Don	J0 2	47727U2-	47S61U6J	45S0SUS2	476J- US	1US7	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J0U65	J7U61	J7U60	J7U2	SU54	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	JJU0S	JJU45	J6U10	JJU05	SU6-	l l b
LesO	2S7 1	J0U54	J0U45	J0U66	J0U65	SU4S	l l b
LA&EAum	6 1				55		G
y sMnewAum	24 2	1270SU51	120J7U05	12540UJ0	127J5US-	SU04	l l b
y snMsnewe	JJ 2	1SJ0US0	1S45U45	1S01UJJ	1SJ5UJ0	1US6	l l b
y oP%bOenum	54 1	0U26	0US7	0U45	0U27	2U77	l l b
y oP%bOenum	5J 1	1U51	1U04	1U7-	1U7-	4U60	l l b
y oP%bOenum	56 1	2U46	2UJ6	2U6J	2UJJ	-U02	l l b
y oP%bOenum	50 1	2US4	1U70	1U57	1U56	4U62	l l b
y oP%bOenum	57 1	2US0	1U77	2USS	1U57	4U77	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1J7U76	1J4UJ4	1J7U46	1J0U22	1UJ5	l l b
8EowI Eoruw	- 1 2	1671U0-	175SUJS	17SSU42	105SU72	JU74	l l b
8o&swwAum	- 5 2	661SU47	6452U0-	67S2U10	66- JU12	2UJJ	l l b
CEoOAum	1S- 1				1S-		G
CEoOAum	1S- 2				1SJ		G
pqsnOAum	4J 1				1SJ		G
pqsnOAum	4J 2				57		G
pe&enAum	72 1	21U4-	15UJJ	21U41	2SU7S	JU17	l l b
pe&enAum	00 2	6SU61	6- U77	J7U55	61U16	4US7	l l b
pe&enAum	07 2	24U01	24U07	27U66	26USJ	7U0S	l l b
pAqon	27 1	174UJ4	171U12	17JU24	17- U6-	1U2S	l l b
pAger	1S0 1	7U6S	7UJ5	7UJ-	7U44	1U66	l l b
pAger	1S5 1	7U6S	7UJJ	7UJ6	7UJ1	1UJS	l l b
poOAum	2- 2	22- UJ-	227U05	2- 2UJ7	227U2-	1U5J	l l b
p&on&Aum	76 1	12SU17	116UJJ	11JU6J	110U46	2US4	l l b
p&on&Aum	77 1	126U25	12- UJ1	12JU05	12JU1-	1U20	l l b
pulPur	- 4 1	0SSU70	065UJS	656US6	022US7		l l b
i erbAum	1J5 1				1S7		G
i erbAum	1J5 2				1S4		G
i EsPAum	2S- 1	7U5-	5US4	5U1-	5US-	1US7	l l b
i EsPAum	2SJ 1	5US1	5USJ	5US5	5USJ	SU44	l l b
i An	117 1	2U40	2U4J	2U46	2U46	SUJ-	l l b
i A&snAum	40 1	111U15	1SJU54	1S4U42	1S0U17	-UJ1	l l b
RrsnAum	2- 7 1	2UJ1	2U24	2U25	2U27	1U65	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ane:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJ:v onqU	v onqCpt	Rn&w
VsnsOAum	J1 2	105US0	10JUJJ	107U7-	100U72	1U11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	- 74U57	- 52U55	4S2USS	- 5- U2	2U10	l l b
ZAqonAum	5S 1	- U27	- U12	- U16	- U17	2U0J	l l b
ZAqonAum	51 1	- U1S	- U27	- U17	- U15	2U52	l l b

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On:7/14/2023 8:48:56 AM
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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&n&psml Re9D 9J9	y h SF: 0	t Ra&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J. S	t s&sFAe9Nsme9J	S55cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
cRmAnAm	20 2	156: 6U66	17254U5S	154: 2U7:	151-4U7S	-U74	l l b
cn&mon%	121 1	SU70	SU7S	SU72	SU7-	4U41	l l b
crwenAq	0: 2	-2US:	25U-4	-SU47	-SU65	4U12	l l b
BsrAm	1-: 1	4-4U60	422US5	41SU17	422U-1	2U5S	l l b
BsrAm	1-0 1	4-1U:	426U1-	4S6U0:	421U40	-US5	l l b
Ber%RAm	5 1	1U52	1U5-	1U07	1U70	4U-	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1S5		G
BromAne	71 1						ql w
v sOmAm	1S7 1	1U5S	1U55	1U-2	1U7S	1-U5:	l l b
v sOmAm	1S6 1	1US5	SU6:	1US2	SU52		l l b
v sOmAm	111 1	1U10	1US6	1US0	1U1S	:U2S	l l b
v sRqAm	4- 1	14S07U7-	141SSU57	1-52SU6S	14S--U40	SU0S	l l b
v sRqAm	44 1	1: S6: U6S	14716U07	147S-U52	1475: U4-	SU55	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	-: 1						ql w
v ERrAne	-: 2						ql w
v EromAm	: 2 2	-7U1S	-:U0	-6U1S	-6U2	-U76	l l b
v obsR&	: 5 2	20U21	24U55	26U42	26U21	4U27	l l b
v ol l er	6- 2	:6U24	:1U5S	: : U1:	:4U4-	4U1:	l l b
t %w l rowAm	1: 6 1						ql w
t %w l rowAm	1: 6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRnAm	16S 1						ql w
HsOoRnAm	16S 2						ql w
hoRnAm	16: 1				1S0		G
hoRnAm	16: 2				1S7		G
DnOAm	11: 1				1S0		G
DnOAm	11: 2				1S2		G
Don	: 4 2	:4471US2	:1624U67	:4S: : U42	: - -70US4	2U75	l l b
Don	: 6 2	: : 247U50	:S6S: US2	: -670U04	: -17SU7	4U44	l l b
Don	: 0 2	: : 541U-2	:1620U7S	: : 1-7U1S	:42-:U04	4U2-	l l b
Kr%&on	7- 1						ql w
LesO	2S6 1	6SU-	61U-0	:5U07	6SU6-	1U47	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 I ers&br9J	aswl sP
Lsb9psmI Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&nA&psmI Re9D 9J9	y h SF: 0	t Re&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I0J-0J S	t s&sFAe9Nsme9J	S55cC. FUO

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
LesO	2S0 1	: 7U27	: 7U-6	: 0US2	: 0U77	1U-S	I I b
LesO	2S7 1	: 5U61	: 5U61	: 7U-0	: 5U15	1U21	I I b
LA&EAum	6 1				55		G
y sMnewAum	24 2	7661US4	0752U-2	7- 51U6	7- 1: US4	4U65	I I b
y snMsnewe	: : 2	2: 26USS	2- S- U27	24: 1U21	2426U7-	4U60	I I b
y oP%bOenum	54 1	1SU64	1SU57	1SU0:	1SU05	1U-5	I I b
y oP%bOenum	5: 1	2U22	2U27	2U-1	2U20	1U55	I I b
y oP%bOenum	56 1	- U10	- U25	- U2S	- U22	1U5S	I I b
y oP%bOenum	50 1	2U21	2U42	2U22	2U27	: U17	I I b
y oP%bOenum	57 1	2U2-	2U26	2U10	2U22	1U55	I I b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	6: U52	62USS	6: U26	64U-5	- U26	I I b
8 EowI Eoruw	- 1 2	141SU01	1- - 6U42	1: 01U14	14- 5U4-	7U-	I I b
8 o&swwAum	- 5 2	4105U-1	4S- 0U7:	4147US-	4121U0-	1U7S	I I b
CEoOAum	1S- 1				1S:		G
CEoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S0		G
pqsnOAum	4: 2				1SS		G
pe&nAum	72 1	- U61	- U4-	- U-6	- U-	2U-2	I I b
pe&nAum	00 2	- 0US5	- : U70	46U44	- 5U7S	14U-4	I I b
pe&nAum	07 2	11US7	5U2-	11U4-	1SU-7	11U10	I I b
pAqon	27 1	10SUS7	102U-5	166U-S	165U-5	1U71	I I b
pAger	1S0 1	SU20	SU26	SU26	SU26	2U6S	I I b
pAger	1S5 1	SU27	SU-S	SU24	SU20	11U64	I I b
poOAum	2- 2	1162U67	1S61U-2	112: U21	1116U40	4U-7	I I b
p&onA&um	76 1	116U-7	11- U55	112U54	114U44	1U-4	I I b
p&onA&um	77 1	121U6-	115U-4	12SUS4	12SU4S	SU51	I I b
pu&ur	- 4 1	00U46	14- U-	- : 5U65	141U52		I I b
i erbAum	1: 5 1				1S5		G
i erbAum	1: 5 2				1S0		G
i EsPAum	2S- 1	SU47	SU46	SU44	SU46	- U6S	I I b
i EsPAum	2S: 1	SU47	SU46	SU4:	SU46	- U:	I I b
i A	117 1	2U-:	2U22	2U21	2U26	- U40	I I b
i A&snAum	40 1	02U-S	0- U00	01U52	02U0-	1U-S	I I b
RrsnAum	2- 7 1	- U12	- U1:	- US2	- U1S	2U16	I I b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Ae na&psml Re9D 9J9	y h SF: 0	t Ae a&on9Fsqa&br9J	1
t sa&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J S	t sa&sFAe9Nsme9J	S55c C. FU0

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
VsnsOAum	: 1 2	70U04	7SU2:	74U S	74U16	4U46	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	212U56	156U0S	2S2U52	2S-U75	-U05	l l b
ZAqonAum	5S 1	: U7	: U2:	: U27	: U S	1U2	l l b
ZAqonAum	51 1	: U2:	: US-	: U S	: U15	2U04	l l b

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	1y411.2h	16177.4-	1yy46.76	1y01y.y2	2.64	ppm
Aotiu Oo%	121 1	S.7y	S.70	S.hS	S.70	2.60	ppm
Aesboic	0y 2	22.y-	22.hS	2- .S2	22.72	1.12	ppm
BaeiNu	1- y 1	24y.11	247.02	262.67	2y2.10	- .67	ppm
BaeiNu	1- 0 1	2y1.- 2	24h.h1	266.y0	2yy.h-	- .61	ppm
Bbe%liNu	h 1	1.yS	1.y6	1.40	1.y1	- .Sy	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1S-		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.- -	2.71	1.h0	2.- 0	10.0y	ppm
Uadu iNu	1S6 1	1.- 7	- .24	1.60	2.1S		ppm
Uadu iNu	111 1	1.76	1.0y	2.S6	1.7h	7.2h	ppm
UalciNu	4- 1	1- 601.7y	1- yh2.74	14SS4.y4	1- 0y6.41	1.yh	ppm
UalciNu	44 1	144S7.6y	14111.h2	14024.47	1441y.S2	2.1-	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	26.y0	27.S6	26.hS	20.17	2.77	ppm
UOmalt	yh 2	12.46	1- .1-	12.27	12.62	- .y7	ppm
UOppbe	6- 2	- h.22	41.46	4S.2h	4S.- 2	2.07	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1S4		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	- 0h17.h2	4S620.S6	- 0- - 2.0y	- 7626.24	4.yy	ppm
IeOo	y6 2	- 76h- .2y	- h0Sh.40	- 0y20.y0	- 764- .4-	2.7-	ppm
IeOo	y0 2	- yyS2.- 0	- 0y2y.4y	- y4- - .22	- 61y- .67	- .2h	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	67.60	67.7y	6h.02	6h.S7	S.71	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	6y.- 7	64.46	60.14	6y.66	2.S0	ppm
Lbad	2S7 1	66.- -	66.07	67.01	60.20	1.77	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	6SSS.4-	64S2.72	6162.74	6177.0S	- .20	ppm
g aovaobsb	yy 2	62- .hy	64h.2h	622.y2	6- 1.h2	2.- 7	ppm
g Ol%mdboNu	h4 1	0.yh	0.66	7.12	0.0h	- .6h	ppm
g Ol%mdboNu	hy 1	2.S2	1.hS	2.14	2.S2	y.7-	ppm
g Ol%mdboNu	h6 1	2.6y	2.y2	2.72	2.60	y.6-	ppm
g Ol%mdboNu	h0 1	2.S7	2.Sh	2.S0	2.S7	S.- 6	ppm
g Ol%mdboNu	h7 1	2.S6	2.S1	2.S6	2.S4	1.yy	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	2h.76	- 1.0h	- S.- 0	- S.60	- .2y	ppm
PEOspEOeNs	- 1 2	- - 22.1S	- - - 2.02	- 2SS.6S	- 27y.14	2.2-	ppm
POtassiNu	- h 2	647y.14	6hh6.- S	6y70.- y	667h.6S	4.S4	ppm
n EOdiNu	1S- 1				1S7		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1S0		G
r caodiNu	4y 2				hy		G
r blboiNu	72 1	1.2S	1.4-	1.hS	1.y1	2- .76	ppm
r blboiNu	00 2	- 4.26	- 6.10	4S.41	- 6.h4	7.y2	ppm
r blboiNu	07 2	7.S0	0.76	0.y-	0.72	- .4-	ppm
r ilicOo	27 1	1y4.1h	1yy.y0	164.44	1y7.S0	- .y2	ppm
r ilRbe	1S0 1	S.41	S.4h	S.y1	S.40	11.y4	ppm
r ilRbe	1Sh 1	S.yS	S.y-	S.4h	S.y1	4.h6	ppm
r OdiNu	2- 2	2S2.1-	221.0-	2S- .02	2Sh.2S	y.2S	ppm
r teOotiNu	76 1	h6.26	h- .4h	1S- .SS	h0.y7	y.S1	ppm
r teOotiNu	77 1	1S2.16	hh.42	1S7.SS	1S- .1h	4.2y	ppm
r NfNe	- 4 1	14y4.y-	1420.27	1114.y1	1- - 2.11		ppm
TbemiNu	1yh 1				1Sh		G
TbemiNu	1yh 2				1S-		G
TEalliNu	2S- 1	S.- 1	S.- 4	S.- 6	S.- 4	6.07	ppm
TEalliNu	2Sy 1	S.- -	S.- 2	S.- -	S.- -	2.20	ppm
Tio	117 1	2.y7	2.4y	2.66	2.y6	4.21	ppm
TitaoiNu	40 1	1S0.66	112.41	11y.11	111.0-	- .- 7	ppm
FeaoiNu	2- 7 1	2.y7	2.6S	2.0y	2.64	- .yS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	y0.yh	yh.0h	y6.76	y7.S7	2.6-	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				1S2		G
Zioc	66 2	26h.S2	2hS.71	20y.72	207.yy	4.SS	ppm
ZieoOoiNu	hS 1	- .4h	- .46	- .07	- .y7	4.h-	ppm
ZieoOoiNu	h1 1	- .y2	- .y7	- .66	- .yh	2.S-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	17y0y.66	17446.10	17- 40.- y	174y6.- h	S.62	ppm
Aotiu Oo%	121 1	S.6h	S.02	S.72	S.04	7.60	ppm
Aesboic	0y 2	2y.y1	20.4S	26.h1	26.61	- .67	ppm
BaeiNu	1- y 1	2hh.h2	- S1.- 2	- S0.60	- S2.h0	1.- 6	ppm
BaeiNu	1- 0 1	2h7.2h	- S0.24	- 1- .0-	- S6.42	2.y-	ppm
Bbe%liNu	h 1	1.76	1.hS	1.hS	1.7h	1.1h	ppm
Bisu NtE	2Sh 1				112		G
Bisu NtE	2Sh 2				1S0		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.26	2.y0	2.2S	2.- 4	7.y6	ppm
Uadu iNu	1S6 1	1.27	1.41	- .S4	1.h1		ppm
Uadu iNu	111 1	2.44	2.- y	2.4y	2.41	2.1h	ppm
UalciNu	4- 1	10y46.67	17- 22.2S	172S1.12	17S2- .- -	2.- 1	ppm
UalciNu	44 1	1717S.70	17772.- 0	17610.0S	17y6S.- 2	1.h1	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	- - .S-	- 2.1S	- 1.h6	- 2.- 6	1.0h	ppm
UOmalt	yh 2	16.6h	16.hh	16.1h	16.62	2.42	ppm
UOppbe	6- 2	4S.04	4S.0S	- h.h1	4S.4y	1.1y	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5 emiNu	164 1						cps
5 emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				hh		G
IeOo	y4 2	4- 4y6.hh	4214- .26	4171S.12	4240S.12	2.Sy	ppm
IeOo	y6 2	422S0.- h	42114.4y	4S646.Sh	416yy.h7	2.1S	ppm
IeOo	y0 2	42y41.70	- h66y.7S	- 7- - y.S2	4S17S.hS	y.- y	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	72.y7	72.21	72.40	72.42	S.2-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	7S.04	06.- h	07.- -	07.4h	2.00	ppm
Lbad	2S7 1	72.Sy	0h.7y	7S.22	7S.01	1.46	ppm
LitEiNu	6 1				1S1		G
g avobsiNu	24 2	04y1.0h	04Sh.1S	02y- .- 2	0- 01.4S	1.42	ppm
g aovaobsb	yy 2	h0S.14	h44.S7	h2- .70	h46.S-	2.4y	ppm
g Ol%mdboNu	h4 1	6.20	0.Sy	0.11	6.71	6.76	ppm
g Ol%mdboNu	hy 1	1.07	1.0-	1.77	1.7S	4.1h	ppm
g Ol%mdboNu	h6 1	2.- 7	2.4S	2.40	2.42	1.h1	ppm
g Ol%mdboNu	h0 1	1.61	2.S4	1.77	1.74	11.0y	ppm
g Ol%mdboNu	h7 1	1.04	1.7h	1.76	1.7-	4.1h	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	- 0.72	- 0.SS	- 6.20	- 0.S-	2.1S	ppm
PEOspEOeNs	- 1 2	217- .S4	2- 10.46	2221.y-	224S.60	- .Sh	ppm
POtassiNu	- h 2	y4h1.16	y44- .4-	y- 70.24	y44S.61	S.h6	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1Sy		G
r caodiNu	4y 1				1S7		G
r caodiNu	4y 2				h7		G
r blboiNu	72 1	1.y0	1.4S	1.6-	1.y-	0.7h	ppm
r blboiNu	00 2	4- .2-	44.02	4h.y-	4y.7-	0.17	ppm
r blboiNu	07 2	h.- 6	1S.7y	7.71	h.60	1S.h2	ppm
r ilicOo	27 1	1hy.46	2Sy.S0	2S- .70	2S1.40	2.6S	ppm
r ilRbe	1S0 1	S.0y	S.71	S.06	S.00	- .76	ppm
r ilRbe	1Sh 1	S.04	S.02	S.7-	S.06	0.27	ppm
r OdiNu	2- 2	447.22	447.7y	4- 0.- S	444.0h	1.46	ppm
r teOotiNu	76 1	1Sy.h0	1S7.- 2	111.S7	1S7.46	2.- 6	ppm
r teOotiNu	77 1	111.- S	11- .- 0	114.hh	11- .22	1.64	ppm
r NfNe	- 4 1	21S0.12	10h1.hS	16h6.y6	176y.1h		ppm
TbemiNu	1yh 1				11-		G
TbemiNu	1yh 2				1Sy		G
TEalliNu	2S- 1	S.- h	S.4S	S.- 0	S.- h	- .24	ppm
TEalliNu	2Sy 1	S.- 7	S.4S	S.4-	S.41	y.6S	ppm
Tio	117 1	1.h6	2.Sy	2.Sy	2.S2	2.4y	ppm
TitaoiNu	40 1	71.1y	74.- 6	74.21	7- .24	2.17	ppm
FeaoiNu	2- 7 1	2.4y	2.44	2.- h	2.4-	1.2-	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	6y.S7	64.4-	6- .11	64.2S	1.y6	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				11-		G
YtteiNu	7h 2				11S		G
Zioc	66 2	2y4.- 7	24h.7h	2yS.- 0	2y1.yy	S.h7	ppm
ZieoCoiNu	hS 1	- .S-	- .S4	- .1S	- .S6	1.10	ppm
ZieoCoiNu	h1 1	2.76	2.70	- .1S	2.h4	4.y7	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1171- F2J	11762Fh6	12ShhF6-	11h2JF27	1F27	l l b
cn&mon%	121 1	1F1J	1FSh	1F22	1F1J	JF47	l l b
crwenAq	0J 2	21Fh0	21FS0	22F07	21Fh4	- FhS	l l b
BsrAum	1- J 1	27- F06	2J4F7S	- SJFS1	271F1h	7Fh6	l l b
BsrAum	1- 0 1	27- F41	261F70	- S4FhJ	27- F41	0F6S	l l b
Ber%BAum	h 1	- F10	2Fh-	- F- J	- F1J	6F67	l l b
BAumu&E	2Sh 1				111		G
BAumu&E	2Sh 2				1S0		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F7h	2F12	2F40	2F16	1- F64	l l b
RsOmAum	1S6 1	2F- S	1F1h	1F6h	1F0-		l l b
RsOmAum	111 1	1F64	1F- h	1F6J	1FJ6	hF4-	l l b
RsRqAum	4- 1	1S747FSJ	hh4hFS0	11JJSF6S	1S072FJ0	0F4J	l l b
RsRqAum	44 1	111- hF17	1S44hF7J	110S7F- -	11ShhF12	JF67	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	10F26	10FS-	10FS4	10F11	SF0J	l l b
RobsR&	Jh 2	1SF4S	1SF- -	1SF64	1SF46	1FJ7	l l b
Rol l er	6- 2	- 6F4J	- 6F60	- 6F72	- 6F6J	SFJ1	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				111		G
y oFmAum	16J 2				1S0		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				hh		G
Don	J4 2	2hS07F04	2h074Fh4	- S- 40FS1	2h0- 6FhS	2F14	l l b
Don	J6 2	27647F24	2h201F11	2h76SF64	2h26SFSS	2FS0	l l b
Don	J0 2	26JJ2FJ2	20SS6F22	2001hF0h	20Sh2F74	2F10	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	1S1F70	h0F7h	11SF2J	1S- F- 4	6F1S	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	h0FS2	h4F1h	1SJF2J	h7F72	JF72	l l b
LesO	2S7 1	1SSFh2	h6FS0	1S0F7h	1S1F6-	JF7J	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	- 0S0F1J	- 6h7F6J	- 746F27	- 0JSF0S	2F21	l l b
Msngsnewe	JJ 2	7J7F2h	76hF10	777F44	701Fh6	1F0J	l l b
MoP%bOenum	h4 1	1JF17	14FJ1	10F1J	1JF61	7F7S	l l b
MoP%bOenum	hJ 1	2F6h	2F4S	2F00	2F62	0F4J	l l b
MoP%bOenum	h6 1	- F72	- F0J	4F16	- Fh1	JF62	l l b
MoP%bOenum	h0 1	2F24	2F2S	2F4J	2F- S	JFh0	l l b
MoP%bOenum	h7 1	2FJ0	2F4J	2F67	2FJ0	4F44	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	10F0-	10F06	17F- 6	10FhJ	1Fh7	l l b
8EowI Eoruw	- 1 2	1762F44	100hF72	2S21F70	1777FS4	6FJ2	l l b
8o&swwAum	- h 2	J042F- 6	J076Fhh	J766FSS	J0h7F4J	1FS7	l l b
5EoOAum	1S- 1				1S4		G
5EoOAum	1S- 2				1S4		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				h6		G
peRenAum	72 1	1F76	1F- h	1F0J	1F60	14F66	l l b
peRenAum	00 2	4hFJS	64FSh	JSF- 2	J4F6-	1JFS1	l l b
peRenAum	07 2	11F07	1SF6J	11FhS	11F44	6FS-	l l b
pARqon	27 1	127F06	11hF61	1- JF44	120Fh-	6F21	l l b
pARer	1S0 1	1F00	1F61	1FhS	1F06	7F- -	l l b
pARer	1Sh 1	1F07	1F04	1F77	1F7S	4FSS	l l b
poOAum	2- 2	hJFS-	h2F- h	hhF21	hJFJ4	- F6S	l l b
p&on&Aum	76 1	00F4-	0- FS2	76F14	07F76	7F40	l l b
p&on&Aum	77 1	00FS4	02F07	72Fh4	00FJh	6FJ7	l l b
pufFur	- 4 1	17S- F17	24JhF6h	1- 4JF04	176hFJ4		l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsFAum	2S- 1	SF- h	SF- 4	SF41	SF- 7	hF1-	l l b
i EsFAum	2SJ 1	SF- 7	SF- 4	SF4S	SF- 0	0Fh-	l l b
i An	117 1	4FS6	- F4h	4F- 2	- FhJ	1SF00	l l b
i A&snAum	40 1	20JF0S	2J4F77	277FJh	20- FS6	6F2-	l l b
UrsnAum	2- 7 1	4F- 4	- Fhh	4F47	4F20	JFhS	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109409SJ	t s&s. Re:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	4- F02	4- Fnh	4JF21	44F- 1	1F0h	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S0		G
ZAnq	66 2	- S1FJ6	- SJF67	- SJF6-	- S4F2h	SF07	l l b
ZAqonAum	hS 1	0F71	0FS0	7F1-	0F60	0FSh	l l b
ZAqonAum	h1 1	0F4h	0F11	7F16	0FJ7	0FS1	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9u mb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	1: 7S2U2S	1: a21U4-	1: a07U6	1: 6- 4U$S	SU06	DDe
q5Tb n5%	121 1	4U6S	4U22	4U42	4U42	4U0	DDe
qpl r 5cl	0a 2	7SU$1	7SU17	72U1:	7SU0:	1UaS	DDe
Bwpcmb	1- a 1	6S6U0	a0SU27	a64U74	a7SU4:	- U7:	DDe
Bwpcmb	1- 0 1	611U$7	a71U44	a07U20	a: SU26	- U$0	DDe
Br p%8cmb	: 1	4U4	4U11	4U$a	4U10	- U07	DDe
Bdb mTE	2S: 1				11S		G
Bdb mTE	2S: 2				1Sa		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	2U-	- U21	2U07	2U0	0U2	DDe
v wob cmb	1S6 1	SU1a	SU2:	SU2S	SU$2		DDe
v wob cmb	111 1	2Ua2	2U42	2Ua4	2U4:	2UaS	DDe
v w8dcmb	4- 1	2- S07Ua6	22166U01	21: 01U:	224SaUaa	2U64	DDe
v w8dcmb	44 1	241S: Ua4	2- SSaU4	220- 2U2a	2- 272U7	- U1-	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- a 1						dDl
v E8hpd5r	- a 2						dDl
v Epmb cmb	a2 2	- : U-	- 7Ua:	- 7U07	- 7U S	1U$S	DDe
v new8T	a: 2	1aU77	1aU47	16U12	1aU72	2U$6	DDe
v nDDr p	6- 2	76U70	76U7	76U7-	76U6:	SU1	DDe
&%Dpnl cmb	1a6 1						dDl
&%Dpnl cmb	1a6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16a 1				1S:		G
h n8b cmb	16a 2				1S7		G
t5ocmb	11a 1				1S6		G
t5ocmb	11a 2				: :		G
tpn5	a4 2	4: : 7- U6-	477S6U01	4: : 71U02	4: a: SU6:	1U0	DDe
tpn5	a6 2	4: - 12U06	4: 4- SU6:	47: a1U76	4: 2- 1U00	SUa1	DDe
tpn5	a0 2	aS677U7	aS174U$-	aSa2- U0:	aS46aU4S	SUa1	DDe
Kp%DTn5	7- 1						dDl
Lr wo	2S6 1	- 40U1:	- 20U41	- 47U70	- 41U16	- UaS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&c8mTcn59FwdTnp9J	1
&wTr 9 9Acb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFc8 9uwb r 9J	1S- qC. Flb

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5cT
Lr wo	2S0 1	2: 7U1:	276U4-	2: 6U71	2: - U71	2U1:	DDe
Lr wo	2S7 1	- - 1U7:	- 21U0S	- 26U6-	- 26U04	1Ua6	DDe
LcTEcmb	6 1				: 7		G
y wW5r l cmb	24 2	061- U6:	04- : US1	0aa- US0	0a- aU26	1U17	DDe
y w5Mw5r l r	aa 2	1a66U11	1a- : U2	1a6- U6:	1aa6Ua7	SU-	DDe
y n8%eor 5mb	: 4 1	21U a	2SU7:	2SUa6	21U1-	- U4-	DDe
y n8%eor 5mb	: a 1	7US2	0U0a	0U0-	0U7-	2US4	DDe
y n8%eor 5mb	: 6 1	: Ua4	: U2S	: U7	: U0	1U74	DDe
y n8%eor 5mb	: 0 1	7US:	0U64	7U21	0U7	- U0a	DDe
y n8%eor 5mb	: 7 1	7U11	0U02	0U7a	0US	2UaS	DDe
u r no%b cmb	1aS 1						dDl
u r no%b cmb	1aS 2						dDl
u cdkr 8	6S 2	- 4U7S	- - U12	- 4US:	- 4USS	2U40	DDe
NEnl DEnpml	- 1 2	1777Ua6	100- US0	17: 2U61	17a1U41	- U60	DDe
NnTwl cmb	- : 2	64: : US6	6- 1- U7	646- U47	642aUa1	1Ua-	DDe
CEnocmb	1S- 1				1Sa		G
CEnocmb	1S- 2				1Sa		G
l dw5ocmb	4a 1				1S6		G
l dw5ocmb	4a 2				: 0		G
l r 8 5cmb	72 1	1U4	2U11	1U a	1U7S	22U6:	DDe
l r 8 5cmb	00 2	64U42	0aU46	04U6S	01U4:	7Ua:	DDe
l r 8 5cmb	07 2	12U41	14USS	1- U4:	1- US	6US7	DDe
l c8dn5	27 1	122U6	116U0	110U10	117U6-	2U0a	DDe
l c8gr p	1S0 1	2U67	2U62	2Ua4	2U61	2U07	DDe
l c8gr p	1S: 1	2U06	2U6a	2U6-	2U67	2Ua4	DDe
l nocmb	2- 2	- 2: Ua7	- 1: U11	- 26U07	- 2aU16	1U60	DDe
l Tpn5Tcmb	76 1	10aU76	167U24	102U1	102U14	2U22	DDe
l Tpn5Tcmb	77 1	177U00	100U1a	104U27	17SUS0	4U26	DDe
l m8mp	- 4 1	12aaUa-	10- : Ua0	1604U61	1aa6Ua0		DDe
Ar pecmb	1a: 1				11S		G
Ar pecmb	1a: 2				1S6		G
AEw8cmb	2S- 1	SUa6	SUa4	SUa:	SUa6	- U67	DDe
AEw8cmb	2Sa 1	SU6S	SUa4	SU6S	SUa7	aUS7	DDe
Ac5	117 1	11U60	1SU72	1SU7S	11U1S	4Ua1	DDe
AcTw5cmb	40 1	- 14U0	2: 7U10	270Ua1	- SSUS2	4Ua1	DDe
Rpw5cmb	2- 7 1	4U76	4U62	4U76	4U07	2U2	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- q C. Fub

NwpwbrTrp	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
Vw5wocmb	a1 2	72U0	71US:	7SU4-	71U S	1U21	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	7: 1				116		G
YTTpcmb	7: 2				114		G
Zc5d	66 2	46aU06	402U66	401U0-	40SUSa	SU7S	DDe
Zcpdn5cmb	: S 1	7U6:	7USS	7U20	7U2	4U10	DDe
Zcpdn5cmb	: 1 1	7Ua0	7US0	7U47	7U0	- U10	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	22- - 1U60	2S- 7SU0	2S7JJUSJ	2117aUS-	4U7S	DDe
q5Tb n5%	121 1	1U1S	1U1J	1USO	1U11	- U7-	DDe
qpl r 5cd	0J 2	42US-	- 7U6S	42US-	4SU7a	4U7J	DDe
Bwpcmb	1- J 1	42SU7J	447U61	4- 6Ua6	4- JU40	- U2S	DDe
Bwpcmb	1- 0 1	417UJ1	4- 6U14	447U2S	4- 4U22	- U46	DDe
Br p%8cmb	a 1	2U01	2Ua0	2Ua6	2U77	4Ua4	DDe
Bdb mTE	2Sa 1				11S		G
Bdb mTE	2Sa 2				1S-		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	1U44	1UJ4	1U42	1U40	4UJ6	DDe
v wob cmb	1S6 1	1UaJ	1U6S	2U24	SU76		DDe
v wob cmb	111 1	1USS6	1UJ-	1U2-	1U21	11U2S	DDe
v w8dcmb	4- 1	0- 14- U1a	0J4- 2USa	04JJaU7a	04- 07UJa	1UJJ	DDe
v w8dcmb	44 1	0S00JU42	04- a4US7	04S06UaS	0- S72U14	2U04	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- J 1						dDl
v E8hpd5r	- J 2						dDl
v Epmb cmb	J2 2	- 6Ua-	- 4US6	- - U61	- 4U70	JU10	DDe
v new8T	Ja 2	24UJ7	22U06	2- U2J	2- U46	- UJ4	DDe
v nDDr p	6- 2	J6U41	J2U4S	J- U44	J4US7	- U74	DDe
&%Dpnl cmb	1J6 1						dDl
&%Dpnl cmb	1J6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16J 1				114		G
h n8b cmb	16J 2				1S6		G
t5ocmb	11J 1				11S		G
t5ocmb	11J 2				a0		G
tpm5	J4 2	6124JU64	J62a1UJ2	J0- 6JU62	J7- SSUa-	4U40	DDe
tpm5	J6 2	614SaU22	J6JaaU42	J07J1U27	J761aUa0	4U26	DDe
tpm5	J0 2	61aJ7UJ1	J01- 2U14	J76- aUS0	Ja24- U10	4U10	DDe
Kp%bTn5	7- 1						dDl
Lr wo	2S6 1	0- USJ	00US4	0aU20	06U4J	4U12	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r T:u wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	6aUaa	0- U71	04UJ1	02U00	- UJ4	DDe
Lr wo	2S7 1	01UaS	06U1S	00UJ7	0JU12	- U71	DDe
LdEomb	6 1				1S2		G
y wW5r l omb	24 2	- 6aa7UaJ	- - 720U6J	- J267U6S	- J- 6JUS0	4U4a	DDe
y w5Mw5r l r	JJ 2	21J0U4J	1aa- U20	2S- 6U64	2S62U4J	4U1-	DDe
y n8%eor 5mb	a4 1	0Ua2	7U4J	7UJ1	7U2a	- U7a	DDe
y n8%eor 5mb	aJ 1	- UJa	- UJ1	- U60	- UJ-	- Ua7	DDe
y n8%eor 5mb	a6 1	4US0	4US4	- Ua7	4US-	1U22	DDe
y n8%eor 5mb	a0 1	- U4J	- UJ2	- U64	- UJ4	2U67	DDe
y n8%eor 5mb	a7 1	- UJa	- U0S	- U67	- UJa	4U7J	DDe
u r no%b omb	1JS 1						dDl
u r no%b omb	1JS 2						dDl
u dkr 8	6S 2	JJUJ-	JSU0-	J2U2-	J2U06	4U44	DDe
NEnl DEnpm	- 1 2	2J7aUJa	2- J4USa	210aU22	2- 04U2-	7U60	DDe
NnTwl omb	- a 2	6aSaUSS	6- 7aUa6	6J4JU71	6614Ua2	4US-	DDe
CEnoomb	1S- 1				1S6		G
CEnoomb	1S- 2				1S1		G
l dw5oomb	4J 1				1S7		G
l dw5oomb	4J 2				a6		G
l r 8 5omb	72 1	1UJa	1U76	2U12	1U76	14US0	DDe
l r 8 5omb	00 2	J4UJ4	J7U17	02UJ7	61U6-	1JU42	DDe
l r 8 5omb	07 2	1SU66	1SUSS	1- US0	11U24	14UJ7	DDe
l d8dn5	27 1	176UJ-	1a4U72	1a4U02	1a2US2	2U47	DDe
l d8gr p	1S0 1	SU46	SUJ-	SUJJ	SUJ1	aUSa	DDe
l d8gr p	1Sa 1	SUJ1	SUJ0	SUJ2	SUJ4	6U42	DDe
l noomb	2- 2	41- U2J	- 00U17	- a2U04	- a4UJa	4UJa	DDe
l Tpn5Tomb	76 1	1J0U40	16JU22	162U7a	161U76	2U46	DDe
l Tpn5Tomb	77 1	160UJ1	10- U07	16aU1S	10SUS6	1Ua6	DDe
l m8mp	- 4 1	6J1UJ0	1S2UJa	110U60	212US-		DDe
Ar peomb	1Ja 1				11-		G
Ar peomb	1Ja 2				1S4		G
AEw8omb	2S- 1	SU47	SUJ2	SUJS	SUJS	- UaJ	DDe
AEw8omb	2SJ 1	SU4a	SUJ2	SUJ1	SUJ1	2U07	DDe
Ad5	117 1	2U1S	2U21	2U22	2U10	- U12	DDe
AdTw5omb	40 1	7aU2J	a2U42	a1U1S	aSUa2	1U0J	DDe
Rpw5omb	2- 7 1	- UJ2	- U02	- U6-	- U6-	2U06	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J1 2	76UJ4	7SU7a	71UaS	7- U1 1	- U6-	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	7a 1				110		G
YTTpcmb	7a 2				11S		G
Zc5d	66 2	- 42U01	- 1SU71	- 16U7a	- 2- U40	JU24	DDe
Zqcdn5cmb	aS 1	2Ua7	2UaJ	2Uaa	2Ua0	SU60	DDe
Zqcdn5cmb	a1 1	- U16	- U-	2Ua1	- U1-	6U6-	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6-	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1666hF- J	1J002F66	1Jh- SF2S	16124FS0	2Fh0	l l b
cn&mon%	121 1	1F20	1F17	1F20	1F24	4F2J	l l b
crwenAq	0J 2	41Fh-	- hF61	4SF10	4SFJ0	2Fhh	l l b
BsrAum	1- J 1	27- F6S	2h- FhS	2h- Fh0	2hSF4h	2FSJ	l l b
BsrAum	1- 0 1	270F16	2h6F- J	2hJF74	2h- F12	1F06	l l b
Ber%BAum	h 1	1F06	1F0h	1F04	1F06	1FJ0	l l b
BAumu&E	2Sh 1				112		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F4h	1F- 6	1F4S	1F42	4F61	l l b
RsOmAum	1S6 1	SF42	1F7-	1FS7	SF7-		l l b
RsOmAum	111 1	1FS0	SFh4	1FS6	1FS2	0F2S	l l b
RsRqAum	4- 1	17J07FJ0	17604FJS	17h0SF6-	17041F24	1FSh	l l b
RsRqAum	44 1	1h- 17F71	1hJ- 1F17	1h6- SF7-	1h4h- F61	SF72	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	4JFh-	42F4S	4- F11	4- F71	4F20	l l b
RobsR&	Jh 2	2SF61	1hF1-	1hF67	1hF71	- F00	l l b
Rol l er	6- 2	44FSh	41F- J	41F74	42F42	- F4J	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				111		G
y oPmAum	16J 2				1SJ		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				h0		G
Don	J4 2	J2Sh4Fh7	4h0h1FJ1	4hh10F24	JS6S1F24	2FJ6	l l b
Don	J6 2	J1404FJ6	47027F16	JS14- FJ-	JS11JF42	2F04	l l b
Don	J0 2	J174SF12	4h402F- 1	JSJ- 7F67	JS610FS4	2F- 4	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	JSF6J	J1F4-	JSF4S	JSF72	1FS6	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 6-	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	47F-7	47Fh4	40F0J	47F-6	1F22	l l b
LesO	2S7 1	JSF-6	J1FSh	4hF-S	JSF2J	1F07	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	726hF40	0724F2S	0772FJ1	0hh2FS6	-FS-	l l b
Msngsnewe	JJ 2	2S60F4J	1hJ4FJS	1h66F7S	1hh6F2J	-F1S	l l b
MoP%bOenum	h4 1	1-FS0	1-F6J	1-F-J	1-F-6	2F1h	l l b
MoP%bOenum	hJ 1	JF04	JF60	JFJ4	JF6J	1F74	l l b
MoP%bOenum	h6 1	6F1h	6F-6	6F21	6F2J	1F40	l l b
MoP%bOenum	h0 1	JF6S	JF0S	JF44	JFJ7	2F42	l l b
MoP%bOenum	h7 1	JFJS	JF04	JF4h	JFJ7	2F4h	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	40F07	4JF-1	4JF-h	46F16	-FS4	l l b
8EowI Eoruw	-1 2	14-4F40	1-2JF0S	1-20F16	1-62F44	4FJ7	l l b
8o&swwAum	-h 2	4S24F44	-00SF0J	-hS1F-2	-7h7F7-	-F2J	l l b
5EoOAum	1S- 1				1Sh		G
5EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				111		G
pqsnOAum	4J 2				hJ		G
peRenAum	72 1	2FSh	2F74	2FS0	2F-	17Fh4	l l b
peRenAum	00 2	JhF-4	42F4-	40F2S	4hF6J	10FJ6	l l b
peRenAum	07 2	11F61	12F0h	11F72	12FS0	JF2S	l l b
pARqon	27 1	11JFh0	12SF40	122Fh0	11hF7S	2Fh6	l l b
pARer	1S0 1	SF-6	SF-2	SF-0	SF-J	6F-6	l l b
pARer	1Sh 1	SF-1	SF-0	SF-h	SF-J	11F0-	l l b
poOAum	2- 2	274F4J	260F-J	26JF10	202F-2	-F77	l l b
p&ona&Aum	76 1	70F42	77F2h	70F11	70F61	SF0S	l l b
p&ona&Aum	77 1	hSF67	h-F26	h2F2-	h2FS6	1F41	l l b
pulPur	-4 1	6JSF-7	7S2F46	626F2J	6h-FS-		l l b
i erbAum	1Jh 1				112		G
i erbAum	1Jh 2				1S-		G
i EsRAum	2S- 1	SF-J	SF-0	SF-4	SF-6	4FS-	l l b
i EsRAum	2SJ 1	SF-4	SF-0	SF-4	SF-J	4F20	l l b
i An	117 1	2FhS	-FS0	2FhJ	2Fh0	2Fh6	l l b
i A&snAum	40 1	1S4F11	1S4FS1	1S6F-h	1S4F74	1F27	l l b
UrsnAum	2-7 1	-F40	-F44	-F44	-F4J	SF4J	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6-	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Re:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	02F11	60FJ2	60F74	6hF16	- F0S	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				110		G
Y&&Aum	7h 2				111		G
ZAnq	66 2	26- FJ6	246FJ1	2JSF21	2J- F4-	- FJ4	l l b
ZAqonAum	hS 1	4F0-	4Fhh	4F71	4F74	2F0h	l l b
ZAqonAum	h1 1	4F02	4F67	4Fh7	4F0h	- F42	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1046SF1S	1660JFh0	16167F0h	16067F2h	- F77	l l b
cn&mon%	121 1	1F0h	1F6J	1F70	1F00	6F20	l l b
crwenAq	0J 2	JJF0J	4hFfh	4hF71	J1F7J	6FJ1	l l b
BsrAum	1- J 1	4JSFh-	4- 1F-6	4- 6F1S	4- hF46	2F-2	l l b
BsrAum	1- 0 1	4J4F76	4- JF2S	4- - Fh2	441F- -	2F66	l l b
Ber%BAum	h 1	2FJ4	2F4-	2F-J	2F44	- F0h	l l b
BAumu&E	2Sh 1				1Sh		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F-0	- F4h	2F7J	- F24	1SFJ-	l l b
RsOmAum	1S6 1	1FS1	SF14	2F-S	1FS6	11JF0J	l l b
RsOmAum	111 1	2F7h	2FJ7	2F06	2F0J	JF62	l l b
RsRqAum	4- 1	6Sh0JF0J	J6166F6-	J61JhF-6	J0060F2J	4F71	l l b
RsRqAum	44 1	6- S- 2F64	J7242FJ0	J74hJF-1	Jhh2- FJ1	4FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	4JFh7	4- F76	42F0S	44F17	- F06	l l b
RobsR&	Jh 2	14F0S	1- Fh1	1- F07	14F1-	- FJ-	l l b
Rol l er	6- 2	hSF7J	76F2-	74F64	70F24	- F0S	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				111		G
y oFmAum	16J 2				1S6		G
DnOAum	11J 1				1S0		G
DnOAum	11J 2				h7		G
Don	J4 2	4- 41SFfh	- hJh4F64	- hh40F27	4Sh74F-S	JF1J	l l b
Don	J6 2	42- S0F66	4S- 6hFJ0	- h600F2h	4S074F74	- F-4	l l b
Don	J0 2	- 7076F70	- 7S1hF62	- 6466FJ4	- 00J0F67	- F1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	2- 7F24	226FS2	2- SFJ2	2- 1F6S	2F60	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	220F6S	217F21	221F74	222FJJ	2F1-	l l b
LesO	2S7 1	247F24	2- 6F4J	242F41	242F- 6	2F4-	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	1J07hF40	14606Fhh	14- 7hF02	14hJ2FS6	4Fh4	l l b
Msngsnewe	JJ 2	14JhF21	1- 0SF2J	1- J4F6h	1- h4F01	4FS4	l l b
MoP%bOenum	h4 1	1JFJ7	14F06	14F62	14Fhh	- F47	l l b
MoP%bOenum	hJ 1	4F- h	- Fh1	- Fh-	4FS7	6F67	l l b
MoP%bOenum	h6 1	JF4J	JF2-	JF2S	JF- S	2FJ0	l l b
MoP%bOenum	h0 1	4F26	4F- 4	- Fh6	4F1h	4F6h	l l b
MoP%bOenum	h7 1	4F- -	4F14	- FhS	4F1-	JF22	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	- 0F00	- 4F6J	- JFJS	- JFh0	4F4h	l l b
8 EowI Eoruw	- 1 2	2- S2F70	21h0F- 6	224SF10	2246F7S	2F- 6	l l b
8 o&swwAum	- h 2	J1JhF60	4h27F70	40h4Fh2	4h61F1J	- F02	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S7		G
pqsnOAum	4J 2				h6		G
pe?enAum	72 1	2FS4	1FJ-	1F70	1F71	14F2J	l l b
pe?enAum	00 2	67FJS	41F27	J- F66	J4F47	2JFS1	l l b
pe?enAum	07 2	11F7h	7F77	11F12	1SF6-	14F0S	l l b
pAqon	27 1	104F62	1J6F01	16SF12	16- F72	JF71	l l b
pAer	1S0 1	1F1-	1F14	1F1-	1F14	SF66	l l b
pAer	1Sh 1	1F16	1FSh	1F1-	1F1-	- F17	l l b
poOAum	2- 2	002FS1	01hF4-	02JF4S	0- 7FhJ	- FhS	l l b
p&on&Aum	76 1	266FSJ	2JJFS1	2J4FJ4	2J7FJ-	2FJ2	l l b
p&on&Aum	77 1	207FJ6	262Fh4	264F26	267FJh	- F22	l l b
pufur	- 4 1	12SJF42	- 7SF6h	4S- FJS	66- F2S	0SF72	l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsPAum	2S- 1	SF41	SF4S	SF- 0	SF4S	JFh4	l l b
i EsPAum	2SJ 1	SF42	SF4S	SF- 7	SF4S	JFJ7	l l b
i An	117 1	4F74	4FJ7	4F64	4F6h	2FhJ	l l b
i A&snAum	40 1	27SFh1	2J0F7h	2J6F- h	26JFS6	JF17	l l b
UrsnAum	2- 7 1	4FS0	- F72	- Fh2	- Fh4	- F2-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J1	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:109J79J1	t s&s. Re:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	J1 2	60FJS	64FJ0	61Fh0	64F67	4F27	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S7		G
ZAnq	66 2	J- 1F06	4h7F- J	4h1FS7	JS0FS6	4F27	l l b
ZAqonAum	hS 1	0FSS	6F72	6F0h	6F70	1F64	l l b
ZAqonAum	h1 1	0F14	6F70	6F72	6Fh4	2F4J	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
cRmAAum	20 2	1hh0- F44	1hhh- F0J	22477F6S	2S717FJh	6FhJ	l l b
cn&mon%	121 1	SFh-	SF74	SF76	SF77	JFJ2	l l b
crwenAq	0J 2	1- FSJ	12F41	14F06	1- F4S	hFS6	l l b
BsrAum	1- J 1	J6JFS-	4h- FS2	4hJF24	J10F00	0Fh1	l l b
BsrAum	1- 0 1	J67FJS	4h- F- 6	4hSF60	J10FJ1	7FJ4	l l b
Ber%BAum	h 1	1F60	1F47	1F4-	1FJ2	7F- 0	l l b
BAumu&E	2Sh 1				1S0		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F04	1FJ2	1F4-	1FJ6	1SF1h	l l b
RsOmAum	1S6 1	1F4-	SF00	1F6S	SF- 1		l l b
RsOmAum	111 1	1FJS	1F20	1F4S	1F- h	7F4h	l l b
RsRqAum	4- 1	2- 166F71	21S44Fh2	2S47SF41	21J64FSJ	6FJ0	l l b
RsRqAum	44 1	2- hhSF7S	21676F67	2S066F2-	22140FhS	0FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	2- F- 4	2- F76	20FS4	24F0J	7F1S	l l b
RobsR&	Jh 2	1- F10	1- F- 2	14F7-	1- F00	6F67	l l b
Rol l er	6- 2	- hF67	4SF7S	4JF16	41F77	6Fh1	l l b
t %w l rowAum	1J6 1						ql w
t %w l rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16J 1				1S0		G
y oFnAum	16J 2				1SJ		G
DnOAum	11J 1				1S4		G
DnOAum	11J 2				hh		G
Don	J4 2	- 7J00F04	- 72J0F4J	42J0SF- -	- h7S1F74	6FS4	l l b
Don	J6 2	- 0160FJ1	- 0246F01	417- - F- 1	- 704hF10	6F7h	l l b
Don	J0 2	- J11hF62	- J4S2F0J	- 776JF2h	- 6462FJJ	JF02	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7hFJ0	74F21	00FS7	7- F62	0FJS	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	7JF06	0hF2-	0- Fh4	0hF6J	0F4-	l l b
LesO	2S7 1	70FJJ	71F2-	06F66	71F71	6F67	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	66- 2F4h	6014F22	04- JFJ1	6h20F41	6F- 7	l l b
Msngsnewe	JJ 2	0S2F16	0ShFhS	076F- 6	0- 2F71	6F- J	l l b
MoP%bOenum	h4 1	0FhS	7FS6	0FJJ	0F74	- F- 2	l l b
MoP%bOenum	hJ 1	1F46	1F- h	1F- 1	1F- h	JFJ2	l l b
MoP%bOenum	h6 1	2F4-	2FS0	1Fh0	2F16	11F- 4	l l b
MoP%bOenum	h0 1	1F64	1F- 0	1F- 2	1F44	11Fhh	l l b
MoP%bOenum	h7 1	1F46	1F- J	1F4-	1F41	- FhS	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	2- F- -	24F6h	26F62	24F77	6F64	l l b
8 EowI Eoruw	- 1 2	266JF64	26S4F- 0	- 2ShF0h	2726F6S	11F0h	l l b
8 o&swwAum	- h 2	66hhF00	66- 2FSh	047JF16	6h- hFSS	6F7-	l l b
5 EoOAum	1S- 1				1S-		G
5 EoOAum	1S- 2				1S-		G
pqsnOAum	4J 1				1S6		G
pqsnOAum	4J 2				h6		G
pe Re nAum	72 1	SFh0	SF7J	SFJJ	SF0h	20F- 6	l l b
pe Re nAum	00 2	22FSJ	- 7F02	44FJ2	- JF1S	- - F2-	l l b
pe Re nAum	07 2	6FJ7	6F26	JF67	6F10	0F- 2	l l b
pARqon	27 1	1h1F- 0	10hFh1	101F1S	17SF0h	JF62	l l b
pARer	1S0 1	SF2h	SF2J	SF2J	SF26	7FJS	l l b
pARer	1Sh 1	SF2h	SF2J	SF24	SF26	hFSS	l l b
poOAum	2- 2	174Fh2	17JFJJ	224F- 2	1h7F26	11F- 7	l l b
p&ona&Aum	76 1	J10F1-	472F40	474FJJ	4h4F02	- Fh-	l l b
p&ona&Aum	77 1	J- 7F- J	JS4FJ4	47- FS4	JS7F64	JF47	l l b
pu Rur	- 4 1	- 46FS-	764F- 0	1201F06	Jh6F0S		l l b
i erbAum	1Jh 1				1S7		G
i erbAum	1Jh 2				1SJ		G
i EsRAum	2S- 1	SF- -	SF20	SF27	SF- S	11FSJ	l l b
i EsRAum	2SJ 1	SF- 1	SF- S	SF- 1	SF- S	1FJ6	l l b
i An	117 1	2F46	2FS1	2F11	2F1h	1SF07	l l b
i A&snAum	40 1	11- FJ2	1S4Fh6	1S1F2J	1S6FJ7	JFhS	l l b
UrsnAum	2- 7 1	2F76	2F66	2F47	2F66	0F2-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J4	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	J7F7S	JhF0-	6JF01	61F41	6F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S7		G
Y&&Aum	7h 2				1S6		G
ZAnq	66 2	20hFJ0	277FJ6	- 16F16	2h4F06	6F40	l l b
ZAqonAum	hS 1	- FhS	- F6J	- F0S	- F0J	- FJS	l l b
ZAqonAum	h1 1	4F11	- F0S	- F4S	- F0-	hF6J	l l b

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	146- - .04	14700.67	14y16.h-	14606.12	1.2y	ppm
Aotiu Oo%	121 1	S.- 2	S.- 6	S.- 4	S.- 4	0.16	ppm
Aesboic	0y 2	1S.42	h.0h	h.44	h.77	y.Sy	ppm
BaeiNu	1- y 1	- 1h.2y	- 24.- S	- 17.SS	- 2S.y2	1.S4	ppm
BaeiNu	1- 0 1	- 22.40	- 27.04	- 16.04	- 22.6y	1.76	ppm
Bbe%liNu	h 1	1.S4	1.Sy	1.S4	1.S4	S.- 4	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1Sy		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	S.40	1.S-	S.66	S.02	- h.y-	ppm
Uadu iNu	1S6 1	- .07	- .46	y.S4	4.Sh		ppm
Uadu iNu	111 1	S.4h	S.y1	S.4y	S.47	y.h-	ppm
UalciNu	4- 1	1y244.26	1y461.S4	1y477.76	1y- h7.Sy	S.70	ppm
UalciNu	44 1	1y064.- y	1y066.2y	161- 1.- 6	1y770.- 2	1.- -	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	1y.1y	1y.72	1y.16	1y.- 7	2.y1	ppm
UOmalt	yh 2	h.4y	h.y6	h.- 0	h.46	1.S-	ppm
UOppbe	6- 2	21.01	22.1S	22.1-	21.h7	1.S0	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	201y1.61	20S1S.71	26464.yy	2670y.66	1.- y	ppm
IeOo	y6 2	26yh2.44	26yy7.7y	2626S.04	2640S.60	S.6h	ppm
IeOo	y0 2	2462h.60	24h0h.61	24074.44	240h0.h1	S.01	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	- 0.S4	- 6.6h	- 6.hS	- 6.77	S.4h	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	- y.16	- y.- 0	- y.04	- y.42	S.7-	ppm
Lbad	2S7 1	- 6.- y	- 6.10	- 6.17	- 6.2-	S.27	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	y220.h4	y- yh.7-	y- yh.02	y- 1y.7-	1.4-	ppm
g aovaobsb	yy 2	477.h2	470.h-	47S.20	47y.01	S.h0	ppm
g Ol%mdboNu	h4 1	4.6-	4.2h	4.y7	4.yS	4.1y	ppm
g Ol%mdboNu	hy 1	S.07	S.67	S.0S	S.02	6.h1	ppm
g Ol%mdboNu	h6 1	1.17	1.16	1.1S	1.1y	- .4S	ppm
g Ol%mdboNu	h0 1	S.0y	S.6-	S.67	S.6h	7.00	ppm
g Ol%mdboNu	h7 1	S.04	S.67	S.66	S.6h	y.76	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	17.h4	17.1y	1h.S1	17.0S	2.y4	ppm
PEOspEOeNs	- 1 2	1S- 1.14	1S- 6.S2	h- - .06	1SSS.- 1	y.00	ppm
POtassiNu	- h 2	26h6.yS	201y.h7	2606.y6	26h6.- y	S.0-	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1Sh		G
r caodiNu	4y 2				h4		G
r blboiNu	72 1	S.S0	S.1-	S.64	S.27	111.y2	ppm
r blboiNu	00 2	- 1.11	21.26	- 2.07	27.- h	21.h-	ppm
r blboiNu	07 2	6.- 0	y.64	6.4S	6.14	0.S6	ppm
r ilicOo	27 1	14S.40	147.- h	146.- 0	14y.S7	2.74	ppm
r ilRbe	1S0 1	S.11	S.12	S.1-	S.12	6.h2	ppm
r ilRbe	1Sh 1	S.1-	S.1-	S.11	S.12	h.yh	ppm
r OdiNu	2- 2	- 47.74	- yh.h7	- y1.- S	- y- .- 0	1.66	ppm
r teOotiNu	76 1	- 2h.7S	- - 4.00	- 24.7S	- 2h.0h	1.y1	ppm
r teOotiNu	77 1	- 41.y0	- 47.- 1	- - 6.12	- 42.SS	1.0h	ppm
r NfNe	- 4 1	2- S2.0-	2S04.1-	21yS.- 6	210y.04		ppm
TbemiNu	1yh 1				112		G
TbemiNu	1yh 2				1S2		G
TEalliNu	2S- 1	S.2S	S.22	S.22	S.21	0.S0	ppm
TEalliNu	2Sy 1	S.22	S.2-	S.22	S.22	2.yS	ppm
Tio	117 1	1.20	1.- 1	1.26	1.27	2.14	ppm
TitaoiNu	40 1	6y.SS	66.yy	60.Sy	66.2S	1.62	ppm
F eaoiNu	2- 7 1	1.- y	1.- y	1.4y	1.- 7	4.26	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	- h.42	- h.h7	- h.02	- h.01	S.0S	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				hh		G
Zioc	66 2	12S.02	121.y2	11h.4-	12S.y6	S.77	ppm
ZieccOoiNu	hS 1	2.1-	2.24	2.1y	2.10	2.y6	ppm
ZieccOoiNu	h1 1	2.2y	2.- -	2.- S	2.2h	1.0-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
AlNu ioiNu	20 2	2460- F12	2S462F62	2S- 6- F77	217- - F21	11F20	ppm
Aotiu Oo%	121 1	SFhh	SFhn	SFh4	SFh6	4F64	ppm
Aesboic	0h 2	4- F0n	- 0F6n	- - F74	- 7F44	1- FSh	ppm
BaeiNu	1- h 1	- 72F7-	- n1F- S	- 74F14	- 76FSn	1F17	ppm
BaeiNu	1- 0 1	- 74F01	- n7F4-	- n1FS1	- n1F- 7	1F06	ppm
Bbe%liNu	n 1	1F02	1F02	1F60	1F0S	1Fhn	ppm
Bisu NtE	2Sn 1				11S		G
Bisu NtE	2Sn 2				1SS		G
BeOu iob	71 1						cps
Radu iNu	1S7 1	1F2-	SFn0	SF0h	SFn7	24F72	ppm
Radu iNu	1S6 1	2Fh2	- F10	- Fh0	- FSn		ppm
Radu iNu	111 1	1FSh	SFn7	SFn7	1FSS	4F27	ppm
RalciNu	4- 1	1- 72hF7n	14S14F2-	1- nn2F62	1- n44F24	SF04	ppm
RalciNu	44 1	1406hF04	144S- F- n	142- hFn1	14467F- h	1F70	ppm
RaemOo	12 1						cps
RaemOo	12 2						cps
REIOeiob	- h 1						cps
REIOeiob	- h 2						cps
REeOu iNu	h2 2	h4F4n	4hFS7	4hF24	47F20	11F16	ppm
ROmalt	hn 2	- - Fn0	20Fnh	27F14	- SFS2	11F4S	ppm
ROppbe	6- 2	06Fn0	6- F2S	64F40	67F21	11F16	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
CemiNu	164 1						cps
CemiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
y Olu iNu	16h 1				11S		G
y Olu iNu	16h 2				1SS		G
IodiNu	11h 1				1S6		G
IodiNu	11h 2				n-		G
IeOo	h4 2	02hSSF06	hn726F27	6Sn00Fh6	644- 4F70	1SF77	ppm
IeOo	h6 2	016n- F74	hn604F0S	hnh- nF7h	6- 6- 6F1-	1SFn0	ppm
IeOo	h0 2	0- S21F20	6S7- 2Fn-	616S1FS6	6h1h1F06	1SF47	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	h6F- h	h0F07	h6FS4	h6F02	1F64	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
Lbad	2S0 1	h- F1S	h4F74	h- FS7	h- F60	1F7n	ppm
Lbad	2S7 1	h4F6n	h6F20	h4F61	hhF1n	1F01	ppm
LitEiNu	6 1				1S2		G
MagobsiNu	24 2	1- 112F04	1Sh06Fn0	1S0n1F66	114n- F0n	12F2-	ppm
Maogaobsb	hh 2	2646Fn7	2170F1n	2227Fn-	2- h4F- 0	1SF7S	ppm
MOl%mdboNu	n4 1	hF61	hF21	hF11	hF- 1	hFSS	ppm
MOl%mdboNu	nh 1	1F0h	1F06	1F77	1F0n	- Fnn	ppm
MOl%mdboNu	n6 1	2F1S	2F24	2FSn	2F14	- F74	ppm
MOl%mdboNu	n0 1	1F07	1F74	1Fn4	1F7h	4F- 1	ppm
MOl%mdboNu	n7 1	1F04	1F0h	1F7h	1F07	- FhS	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	7- FS0	67F77	60F0h	0- F2-	11F66	ppm
PEOspEOeNs	- 1 2	2277Fhh	211nF27	21n0F- 2	22S1F01	- F7h	ppm
POtassiNu	- n 2	07h- F0n	6h- hFn6	6h17F- h	6n6nF- 6	1SFnn	ppm
5 EOdiNu	1S- 1				1S0		G
5 EOdiNu	1S- 2				nn		G
r caodiNu	4h 1				1S7		G
r caodiNu	4h 2				n1		G
r blboiNu	72 1	- F12	2FnS	2F40	2F7-	11Fhn	ppm
r blboiNu	00 2	- hFn2	- 6F0-	- 6Fn4	- 6Fh-	1F40	ppm
r blboiNu	07 2	1- F24	nF0h	0F77	1SF2n	26F44	ppm
r ilicOo	27 1	21nF1h	21hFh0	214F0-	216F47	1FS7	ppm
r ilvbe	1S0 1	SF2n	SF27	SF- S	SF2n	2F2-	ppm
r ilvbe	1Sn 1	SF- 2	SF27	SF27	SF2n	7F62	ppm
r OdiNu	2- 2	h20F- 2	4- 7F07	4- 2F0-	466F27	11F- 6	ppm
r teOotiNu	76 1	11SF06	112F7S	112F22	111Fn-	SFn-	ppm
r teOotiNu	77 1	114F1h	121F16	11nFh2	117F27	- F1S	ppm
r NfNe	- 4 1	2Sh7F17	210hF4n	227hF21	2102Fn6		ppm
TbemiNu	1hn 1				11S		G
TbemiNu	1hn 2				nn		G
TEalliNu	2S- 1	SF42	SF46	SF4h	SF44	- Fn0	ppm
TEalliNu	2Sh 1	SF41	SF4h	SF41	SF42	6F1S	ppm
Tio	117 1	SFn7	1F11	1FS0	1FSh	hFn0	ppm
TitaoiNu	40 1	h0F6n	h0F74	h0FS-	h0Fh2	SF0h	ppm
UeaoiNu	2- 7 1	2F76	- FS1	2Fn4	2Fn-	2F40	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
VaoadiNu	h1 2	1SnF0n	nSF72	nSFnn	n0F2S	11F22	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				11-		G
YtteiNu	7n 2				1S2		G
Zioc	66 2	2n7FnS	24nF- -	24hF- 6	264Ffn-	11F27	ppm
ZieoCoiNu	nS 1	2F1n	2F2-	2F24	2F22	1F1h	ppm
ZieoCoiNu	n1 1	2F14	2F2h	2F- 2	2F24	4FS4	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&or9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 6h	t Ro&on9 sq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsmea&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
cRmAnAum	20 2	- 1712F- h	- 1720F41	- 24S- F6S	- 2S14F40	1FS:	l l b
cna&mon%	121 1	SF77	SF0h	SF6h	SF0h	12F40	l l b
crwenAq	0: 2	26F16	20FS1	2: F: :	26F24	2F0h	l l b
BsrAum	1- : 1	40SFhh	42: FS1	412F: :	4- 6F17	0FS6	l l b
BsrAum	1- 0 1	401FS1	422F6h	42- F7h	4- hF2S	6F20	l l b
Ber%BAum	h 1	2FhS	2F66	2F6-	2F0-	: F46	l l b
BAumu&E	2Sh 1				1S2		G
BAumu&E	2Sh 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	2FS2	1F04	1F: S	1F06	14F06	l l b
RsOmAum	1S6 1	1Fh1	SF: 2	SFh4	SF1:	1S14F44	l l b
RsOmAum	111 1	1F02	1F: -	1F: 1	1F: h	0F- 2	l l b
RsRqAum	4- 1	47- : 4F- 0	42- - - F4-	4S7- hF47	4- 742F4-	hFS0	l l b
RsRqAum	44 1	: SS- : F4:	4- 77- F47	416S7F- S	4: 10: F04	hF6:	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- : 1						ql w
REFrAne	- : 2						ql w
REromAum	: 2 2	42F- -	42F71	42F27	42F40	SF6h	l l b
RobsR&	: h 2	21F- :	22F16	22F2h	21Fh-	2F- -	l l b
Rol l er	6- 2	47F0S	4hF00	: SF: 7	4hF67	1FhS	l l b
t %wl rowAum	1: 6 1						ql w
t %wl rowAum	1: 6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16: 1				1S:		G
y oPmAum	16: 2				1S0		G
DnOAum	11: 1				1S1		G
DnOAum	11: 2				1SS		G
Don	: 4 2	62106F72	6- 44SF: 2	6- 41- FS2	6- S1SF12	1F1:	l l b
Don	: 6 2	61014FS-	6202- F: 6	6- S2SF: 7	62476FS:	1F1S	l l b
Don	: 0 2	626- SF: 1	64100F: 6	6- h: 7Fh7	6- : 7hFS2	1F- 2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7- FSS	0- F20	0SF1:	0: F40	7F70	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenA9psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF9RonqF	Ronq5pt	UnA&w
LesO	2S0 1	0hFh1	6hF04	66F: S	02FS:	hF01	I I b
LesO	2S7 1	71Fh-	01F40	67F26	0- F7h	hF67	I I b
LAEAum	6 1				h7		G
MsgnewAum	24 2	14S7: F14	14022F6h	14- 66F16	14- h1F- -	2F22	I I b
Msngsnewe	: : 2	11S1F1S	11- 4F7h	1120FS6	1121FS2	1F: 7	I I b
MoP%bOenum	h4 1	11FS-	hF64	hFS0	hFh1	1SF10	I I b
MoP%bOenum	h: 1	2Fh7	2F: h	2F: 4	2F0S	hFSS	I I b
MoP%bOenum	h6 1	- FhS	- F46	- F20	- F: 4	hF2S	I I b
MoP%bOenum	h0 1	- F1S	2FhS	2F01	2FhS	6F67	I I b
MoP%bOenum	h7 1	- FS0	2Fh1	2F6:	2F77	0F4h	I I b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	: hF2:	: hF7h	61F12	6SFSh	1F: 7	I I b
8EowI Eoruw	- 1 2	1661F- 6	1077Fh0	1h- 4Fh-	10h: FSh	0F6-	I I b
8oa&swwAum	- h 2	6616F7h	67S6F0-	674SF2S	60: 4F6S	1F07	I I b
5EoOAum	1S- 1				1SS		G
5EoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S2		G
pqsnOAum	4: 2				hh		G
peRenAum	72 1	- F: h	1F04	2F: h	2F64	- : F16	I I b
peRenAum	00 2	6- FhS	6SFS-	6- F61	62F: 1	- F4:	I I b
peRenAum	07 2	hF24	1SF44	12FSh	1SF: h	1- F: S	I I b
pARqon	27 1	2- 6FS-	21SF- 7	1h: F4h	21- Fh0	hF: h	I I b
pARer	1S0 1	SF- 0	SF- -	SF- 2	SF- 4	0Fh2	I I b
pARer	1Sh 1	SF- 6	SF- 2	SF- 1	SF- -	7F2-	I I b
poOAum	2- 2	20SFhS	20hF7S	27SF01	200F14	1Fh6	I I b
p&ona&Aum	76 1	10- F- 2	1: 0F61	140F64	1: hF: 2	7F11	I I b
p&ona&Aum	77 1	174FS7	161F0:	1: 7F77	167F24	7F2S	I I b
pufFur	- 4 1	221F46	1126F4:	1414Fh4	00- F- 1		I I b
i erbAum	1: h 1				1S4		G
i erbAum	1: h 2				1S0		G
i EsRAum	2S- 1	SF00	SF6h	SF6h	SF02	6F67	I I b
i EsRAum	2S: 1	SF07	SF0S	SF60	SF02	7FSS	I I b
i An	117 1	4F- 1	- F64	- FhS	- Fh:	7F: 6	I I b
i A&snAum	40 1	1S: F- 4	h- F: 7	7hF72	h6F2:	7F41	I I b
UrsnAum	2- 7 1	- F66	- F1h	- FS:	- F- S	hF64	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
VsnsOAum	: 1 2	h: F0:	h: F44	h0F44	h6F21	1F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				111		G
Y&&Aum	7h 2				114		G
ZAnq	66 2	26- F- S	260F2S	26hF0:	266F0:	1F22	l l b
ZAqonAum	hS 1	4F07	4F2-	- Fh6	4F- 2	hF0S	l l b
ZAqonAum	h1 1	4Fhh	4F11	4F2:	4F4:	1SF: h	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1791 - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	17JS- FJ0	10706F71	10066FS6	17172F27	- F4h	l l b
cn&mon%	121 1	1F6J	1F01	1F02	1F01	1FS2	l l b
crwenAq	0h 2	0SFJ6	60F2J	67F- 1	67F7h	2F0h	l l b
BsrAum	1- h 1	40- FJ1	461FSJ	404F4J	46JF7-	1F61	l l b
BsrAum	1- 0 1	462F42	461FJS	476FJJ	40SF44	- FSh	l l b
Ber%BAum	J 1	- F00	- F71	- F0S	- F06	1F4J	l l b
BAumu&E	2SJ 1				1S7		G
BAumu&E	2SJ 2				1S7		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F6S	4F2J	- F- 4	- F04	1- FS7	l l b
RsOmAum	1S6 1	4F1-	1FJ1	- F22	- FSJ	- 6FS2	l l b
RsOmAum	111 1	- F41	- F22	- F2S	- F27	- F6h	l l b
RsRqAum	4- 1	4SJ64Fh2	4SS06F2h	4S6S- F01	4Sh47F16	1F1S	l l b
RsRqAum	44 1	4- S6SF2-	42112FS6	421h- F46	42441FJ2	1F26	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	20F47	2hF6S	2hF44	26F10	4F- 4	l l b
RobsR&	hJ 2	16F40	1hF- 2	1hF21	1hF60	4F44	l l b
Rol l er	6- 2	6- F- 7	h7F00	h7F02	6SF2J	4F44	l l b
t %w l rowAum	1h6 1						ql w
t %w l rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16h 1				111		G
y oFnAum	16h 2				1S7		G
DnOAum	11h 1				1SJ		G
DnOAum	11h 2				1S1		G
Don	h4 2	62027FJ0	h0h42F27	h6- J- F67	h7777F- 1	hF0-	l l b
Don	h6 2	62S0hF26	h027hF4h	h062hF22	h7JJhF- 1	4Fh-	l l b
Don	h0 2	62hhhF6-	h0JS0FSS	h07J2F64	hJ4h1F06	4Fh2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	247FhS	241F1-	24JFh4	246F- J	1F76	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179 1 - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	242FJh	2- 2FJS	2- 0F0J	2- 0F77	2F11	l l b
LesO	2S7 1	2h0F60	2hSF7-	2hhF70	2h4F0J	1F- J	l l b
LA&EAum	6 1				1S2		G
MsgnewAum	24 2	10J12FJ4	10S6- F4-	16hh1F12	1010hF7-	4FSS	l l b
Msngsnewe	hh 2	2114F74	1J0- FS0	1Jh0F62	2S1hF17	4F- S	l l b
MoP%bOenum	J4 1	12F47	11F72	12F10	12F16	2F0-	l l b
MoP%bOenum	Jh 1	hFJ4	6FS6	6FS-	6FS1	1FS7	l l b
MoP%bOenum	J6 1	6F0-	6F64	6F04	6F0S	SF7S	l l b
MoP%bOenum	J0 1	6F11	6F1-	6FSS	6FS7	1F10	l l b
MoP%bOenum	J7 1	6FSS	hFJ2	6F1S	6FS1	1F40	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 1F0S	2JF21	27F- 7	2JF06	hF71	l l b
8 EowI Eoruw	- 1 2	1J- 6FJ2	17J6Fh2	17J- F27	1JS7FJ1	1F20	l l b
8 o&swwAum	- J 2	7S0SF24	06- - F4h	06S7FSS	000SFh0	- F- 4	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S0		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				1S1		G
pe&enAum	72 1	1F0J	1F4J	1F04	1F60	JF74	l l b
pe&enAum	00 2	70F77	7hFS-	7SF44	74F4h	4F4h	l l b
pe&enAum	07 2	14Fh6	1- F44	1hFJJ	14F66	7F0-	l l b
pAqon	27 1	1h1F26	14JFSS	147F4S	14JFhh	1FS1	l l b
pAer	1S0 1	1F7h	1F6J	1F0J	1F07	4F62	l l b
pAer	1SJ 1	1F07	1F71	1F7-	1F71	1F- h	l l b
poOAum	2- 2	2hSF2J	2- 0F07	2- 6FJS	241F66	- F1S	l l b
p&on&Aum	76 1	147F22	1hSFSS	14JF70	14JF- 6	SF66	l l b
p&on&Aum	77 1	1h6F7J	1h0F4J	1h2F2J	1hhFhh	1F7-	l l b
pufur	- 4 1	- JF1h	76F4S	7- F- S	14FS7		l l b
i erbAum	1hJ 1				111		G
i erbAum	1hJ 2				1S0		G
i EsFAum	2S- 1	SF6J	SF6J	SF6J	SF6J	SF1J	l l b
i EsFAum	2Sh 1	SF0S	SF67	SF66	SF67	2FJJ	l l b
i An	117 1	- F4-	- F- 0	- Fhh	- F4h	2F67	l l b
i A&snAum	40 1	462F26	447F0J	4h6F64	4hhF7J	1F47	l l b
UrsnAum	2- 7 1	6FS0	hF74	6FS4	hFJ7	2FS0	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179 1 - 9 J	t s&s. Re:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	60F44	6- FJS	62F74	64F02	- F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				117		G
ZAnq	66 2	672F21	6- 2F6-	6- JF4-	6h1F42	4F1-	l l b
ZAqonAum	JS 1	4FS7	4F1h	4F2h	4F16	2FS7	l l b
ZAqonAum	J1 1	4F- 6	4F- 1	4F20	4F- 1	1F14	l l b

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	21717.yy	22S4- .22	216h6.- 1	217- y.h1	S.7y	ppm
Aotiu Oo%	121 1	2.S6	2.- 2	2.2-	2.2S	6.1S	ppm
Aesboic	0h 2	71.S7	71.12	0y.7S	7S.66	S.y-	ppm
BaeiNu	1- h 1	h- h.0h	hhy.- 7	hh2.2-	h4y.12	2.21	ppm
BaeiNu	1- 0 1	h20.77	h6h.- y	hhS.1S	h40.0y	- .44	ppm
Bbe%liNu	y 1	4.S7	4.2h	4.26	4.1y	2.- y	ppm
Bisu NtE	2Sy 1				11S		G
Bisu NtE	2Sy 2				1S6		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	h.h4	4.77	h.y0	h.40	1S.S-	ppm
Uadu iNu	1S6 1	- .h2	4.40	4.1y	4.S6	12.Sy	ppm
Uadu iNu	111 1	- .y7	4.- 4	4.S0	4.1-	4.h2	ppm
UalciNu	4- 1	4- yh- .20	4h662.47	4h- 40.h6	44y70.00	2.S2	ppm
UalciNu	44 1	4h044.16	46yS2.4y	46001.22	46402.62	1.- 6	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- h 1						cps
UElOeiob	- h 2						cps
UEeOu iNu	h2 2	- 2.6-	- - .2S	- 2.6h	- 2.7-	S.yy	ppm
UOmalt	hy 2	2S.0y	21.47	2S.06	21.S1	1.y4	ppm
UOppbe	6- 2	yS.71	y2.2-	y1.76	y1.64	S.7S	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16h 1				11S		G
MOlu iNu	16h 2				1S7		G
IodiNu	11h 1				1S7		G
IodiNu	11h 2				1SS		G
IeOo	h4 2	6yhyy.74	6y614.1-	67722.67	6y- 4h.hh	S.6h	ppm
IeOo	h6 2	674- 0.20	6y- S7.h-	6y110.h4	67yh4.44	S.66	ppm
IeOo	h0 2	0S- 6- .0h	0Sy7S.2h	01S4h.27	0S0y6.4-	S.h-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	247.67	2h0.1h	2h4.S-	2h- .2y	1.6y	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	24S.hS	24y.Sy	24h.14	244.y1	1.06	ppm
Lbad	2S7 1	2hy.- -	26y.S1	26h.24	264.h-	1.7h	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	172y0.01	1ySy6.00	176- S.17	17604.77	2.1h	ppm
g aovaobsb	hh 2	2hy1.40	261S.76	26- h.21	2612.h1	S.74	ppm
g Ol%mdboNu	y4 1	17.S1	17.40	17.4-	17.- S	1.- y	ppm
g Ol%mdboNu	yh 1	7.S6	7.1-	7.24	7.1h	1.1-	ppm
g Ol%mdboNu	y6 1	y.2h	y.1h	y.21	y.2S	S.hh	ppm
g Ol%mdboNu	y0 1	7.Sh	7.42	7.16	7.21	2.- 4	ppm
g Ol%mdboNu	y7 1	7.2S	7.h4	0.y7	7.24	- .4S	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	4S.y6	42.2-	41.04	41.64	1.h4	ppm
PEOspEOeNs	- 1 2	24y0.S6	2h6S.S4	2- 2h.- S	246S.7S	4.y4	ppm
POtassiNu	- y 2	0721.h-	0y10.h1	0766.hh	0767.h-	S.61	ppm
n EOdiNu	1S- 1				1S6		G
n EOdiNu	1S- 2				1Sh		G
r caodiNu	4h 1				1Sy		G
r caodiNu	4h 2				yy		G
r blboiNu	72 1	1.yS	2.4-	2.- y	2.24	12.yy	ppm
r blboiNu	00 2	06.h1	70.71	70.S0	7- .0y	0.h4	ppm
r blboiNu	07 2	1h.44	1h.h-	1h.66	1h.h4	S.01	ppm
r ilicOo	27 1	146.21	161.S-	1h2.yS	1h- .- 7	4.74	ppm
r ilRbe	1S0 1	1.71	1.y1	1.76	1.76	2.h1	ppm
r ilRbe	1Sy 1	1.7S	2.S4	1.7h	1.yS	6.hh	ppm
r OdiNu	2- 2	- h1.27	- 6S.47	- h2.y7	- h4.y2	1.- 7	ppm
r teOotiNu	76 1	1y1.- 6	1yS.22	174.6S	177.0-	1.y2	ppm
r teOotiNu	77 1	1y2.h7	1yy.16	1yh.- 1	1yh.67	1.6y	ppm
r NfNe	- 4 1	10S.2y	ySS.h6	y60.2-	60y.- 6	6h.S7	ppm
TbemiNu	1hy 1				11S		G
TbemiNu	1hy 2				1Sh		G
TEalliNu	2S- 1	S.0y	S.71	S.00	S.0y	2.00	ppm
TEalliNu	2Sh 1	S.07	S.00	S.72	S.0y	- .0y	ppm
Tio	117 1	6.2h	6.0y	6.07	6.61	4.67	ppm
TitaoiNu	40 1	- h6.SS	- 67.0-	- 60.7y	- 64.2S	1.yh	ppm
F eaoiNu	2- 7 1	6.70	0.S6	6.y2	6.yh	1.4h	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169- -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	h1 2	7S.72	7S.60	7S.- 4	7S.61	S.- 1	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7y 1				12S		G
YtteiNu	7y 2				110		G
Zioc	66 2	60- .6h	67S.60	6h7.04	601.S2	1.60	ppm
ZieccOoiNu	yS 1	6.6S	6.6-	6.h6	6.6S	S.h6	ppm
ZieccOoiNu	y1 1	6.h4	6.64	6.7-	6.60	2.2-	ppm

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1JS72Fh2	10h60FhS	1h072F2h	10400F42	JF4h	l l b
cn&mon%	121 1	- F71	4FS2	4FS4	- FJ6	- F22	l l b
crwenAq	0h 2	1S4F2h	J6F72	77F0S	J6FhJ	7FSh	l l b
BsrAum	1- h 1	h20F27	h- hF14	h1hF46	h2hFJ6	1F77	l l b
BsrAum	1- 0 1	h- SF06	h- 6FJh	h10F47	h27F4S	1F77	l l b
Ber%BAum	J 1	2FhJ	2Fhh	2F40	2Fh4	2F47	l l b
BAumu&E	2SJ 1				11-		G
BAumu&E	2SJ 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1- F4J	16F16	14FJ-	14F76	7FJ0	l l b
RsOmAum	1S6 1	1SF04	11F41	1SF2J	1SF71	hF22	l l b
RsOmAum	111 1	1SF64	1SF74	1SFh2	1SF60	1Fh4	l l b
RsRqAum	4- 1	27274F2-	2JS- 2F6h	2772- FS0	2701- F- 2	1F- 4	l l b
RsRqAum	44 1	2J60SF0-	2JJ- 6FJ-	- S1SJF27	2JJShF6h	SF04	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	4SF62	- 6FJ1	- - F71	- 0F12	JF1J	l l b
RobsR&	hJ 2	16F0-	1hF41	1- F62	1hF2h	1SF26	l l b
Rol l er	6- 2	177F- -	102F6h	1h6F47	102F4J	JF2-	l l b
t %w l rowAum	1h6 1						ql w
t %w l rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16h 1				112		G
y oFmAum	16h 2				1S0		G
DrOAum	11h 1				112		G
DrOAum	11h 2				1S1		G
Don	h4 2	hJ424F42	h- 044F22	4746JF1S	h- 70JF2h	1SF10	l l b
Don	h6 2	h760hF7S	h4SS- F- 4	474JJFS4	h- 026FS6	JF47	l l b
Don	h0 2	hJ4h1F- S	h40- SF21	47714FJS	h4- - 2F14	JF71	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	10JJF72	10J2F44	1004F4J	1077FJ2	SF0-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	102- Fh0	10hSF01	1064F-4	1046F21	1F1J	l l b
LesO	2S7 1	1007F60	1004FJ2	107hFS-	100JFh4	SF2J	l l b
LA&EAum	6 1				1S4		G
MsgnewAum	24 2	141h0FJS	1200SFh-	11- h7F42	12062F27	1SFJ0	l l b
Msngsnewe	hh 2	222hF-S	2S4SFh2	171- FSh	2S26F2J	1SF1J	l l b
MoP%bOenum	J4 1	JFhS	JF2J	JFS1	JF20	2F61	l l b
MoP%bOenum	Jh 1	hF46	hF26	hF-2	hF-h	1F70	l l b
MoP%bOenum	J6 1	hF71	6FS7	hF71	hFJS	2F61	l l b
MoP%bOenum	J0 1	hF4h	hF6h	hF02	hF61	2F4J	l l b
MoP%bOenum	J7 1	hF46	hF44	hF-7	hF4-	SF6J	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 0F14	- - F62	27FJh	- - F2-	12F-6	l l b
8 EowI Eoruw	- 1 2	- 16SF- -	- 147F42	2066F00	- S2hF10	0F4S	l l b
8 o&swwAum	- J 2	1S221FS4	J21JF66	7- 21F22	J2h- FJ0	1SF20	l l b
5 EoOAum	1S- 1				1SJ		G
5 EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				JJ		G
pe&enAum	72 1	1F6J	2FSh	1F-1	1F67	21F74	l l b
pe&enAum	00 2	6hF41	hhF72	h- FSJ	h7F1S	11F14	l l b
pe&enAum	07 2	12FJJ	JFJh	11F14	11F-6	1- F40	l l b
pAAqon	27 1	1hJF2S	16hF17	16- F00	162F02	1FJ2	l l b
pAPer	1S0 1	JFJ7	1SF1h	1SF61	1SF24	- F2S	l l b
pAPer	1SJ 1	1SF21	1SFhS	JF7-	1SF17	- F-S	l l b
poOAum	2- 2	7h1Fh4	0h7Fh6	672F1-	064FS7	11F1S	l l b
p&on&Aum	76 1	17hF7-	177F04	17hF44	176F60	SFJ0	l l b
p&on&Aum	77 1	1J7F1J	1JhFS-	1J6Fh0	1J6F6S	SF7S	l l b
pulPur	- 4 1	220- FJ7	26J6F-4	264SF47	2h- 6FJ4	JFS4	l l b
i erbAum	1hJ 1				11-		G
i erbAum	1hJ 2				1S6		G
i EsPAum	2S- 1	SFh0	SFh2	SFh0	SFhh	4Fh4	l l b
i EsPAum	2Sh 1	SFh6	SFh7	SFh0	SFh0	2F1S	l l b
i An	117 1	JFJ-	1SFhh	1SF17	1SF22	- FS7	l l b
i A&snAum	40 1	hS4FSJ	h12F-S	h1- F-J	hSJFJ-	1FSS	l l b
UrsnAum	2- 7 1	4FSJ	4FS4	4F1S	4FS7	SF06	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	07F66	01F72	6hF46	01FJ7	JF10	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				11-		G
ZAnq	66 2	2S1JF7J	174hF20	1664FS-	174- FS6	JF6h	l l b
ZAqonAum	JS 1	2F76	2F0-	2F01	2F00	2F7-	l l b
ZAqonAum	J1 1	2F06	2F7h	2F06	2F0J	1F76	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 0-	t Ra&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsmea&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1h- : 2F27	1h- 67F12	1h- 2SFS:	1h- 6SF16	SF24	l l b
cn&mon%	121 1	- F- 7	- F- :	- F26	- F- 4	2F2S	l l b
crwenAq	0h 2	: 7F67	: 4F61	1SSF44	: 0F. 1	- FS6	l l b
BsrAum	1- h 1	44: FSh	4h2F. :	44: F47	4hSFh1	SF47	l l b
BsrAum	1- 0 1	4h4F60	4h0F7S	4h1F. 4	4h4F71	SF6h	l l b
Ber%BAum	: 1	2F2:	2F27	2F2h	2F20	SF71	l l b
BAumu&E	2S: 1				111		G
BAumu&E	2S: 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1- F67	1hF77	14F02	14F06	0F4h	l l b
RsOmAum	1S6 1	7F11	11F1:	1SFSS	: F06	1hF. 2	l l b
RsOmAum	111 1	16F41	16F- :	1hF. 6	16F2h	1Fhh	l l b
RsRqAum	4- 1	1h74SF0h	1h0- : Fhh	1h: : SF6S	1h7h6F. 0	SF7S	l l b
RsRqAum	44 1	16461Fh1	16- 1hF. 4	102- 7F1h	16601F70	2F. 0	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	24F- h	24F40	24F66	24F4:	SF62	l l b
RobsR&	h: 2	11F70	11F60	11F7-	11F0:	SF. S	l l b
RoI I er	6- 2	14hF47	146F2S	140FS2	146F2-	SFh-	l l b
t %wI rowAum	1h6 1						ql w
t %wI rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16h 1				112		G
y oFmAum	16h 2				1S6		G
DrOAum	11h 1				111		G
DrOAum	11h 2				1SS		G
Don	h4 2	4- S76F- 4	42: - 0F7:	4274- F76	42: h6FS-	SF27	l l b
Don	h6 2	42621F4-	42216F1-	42h- 7F21	424h7Fh:	SFhS	l l b
Don	h0 2	- : 676F- 0	42: 04F11	- : - 4- F0-	4S667FS0	4F. -	l l b
Kr%I &on	7- 1						ql w
LesO	2S6 1	706F- h	777FS:	777F04	774F- :	SF0:	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenA&psml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
LesO	2S0 1	744F60	701F46	760F-1	761F14	1F60	l l b
LesO	2S7 1	7h0F0h	77SF00	704F.1	701F14	1F-0	l l b
LA&EAum	6 1				1Sh		G
MsgnewAum	24 2	021hF7-	0116F27	0247F11	01: - F4S	SF.6	l l b
Msngsnewe	hh 2	1062F7:	1h07F.4	1027F11	167: F.7	hF07	l l b
MoP%bOenum	: 4 1	: F.S	: F61	: F.0	: F7-	1F.1	l l b
MoP%bOenum	: h 1	hF.0	6FS2	6FS-	6FS1	SFh2	l l b
MoP%bOenum	: 6 1	6F-2	6F6:	6F61	6Fh4	2F.6	l l b
MoP%bOenum	: 0 1	6F6:	6F26	6F17	6F-0	4F2:	l l b
MoP%bOenum	: 7 1	6FS4	6F2:	6F1h	6F16	2FS2	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	26F26	26FSh	26F11	26F14	SF41	l l b
8EowI Eoruw	- 1 2	1- 4- F20	14- 2F2S	1h47FS4	1441F10	0F12	l l b
8o&swwAum	- : 2	hhS1F17	h- 04FS4	h416F.0	h4- SF0-	1F1:	l l b
5EoOAum	1S- 1				1S:		G
5EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				11S		G
pqsnOAum	4h 2				: :		G
pe?enAum	72 1	1F17	SF76	1F1h	1FS0	16F47	l l b
pe?enAum	00 2	hSFS0	41F77	42F.S	44F.h	: F.-	l l b
pe?enAum	07 2	7F.2	0F76	0F40	7FS7	: F-4	l l b
pAAqon	27 1	1- hF66	1- 0F76	1- 7F47	1- 0F- -	1FS7	l l b
pA?er	1S0 1	hFS2	hF21	hF- -	hF1:	- FS-	l l b
pA?er	1S: 1	hF16	hF2h	hF11	hF10	1F-:	l l b
poOAum	2- 2	71- F1S	7S0FS1	71hFS0	711F0-	SFh2	l l b
p&on&Aum	76 1	101FS:	167F77	10- F-4	101F1S	1F-1	l l b
p&on&Aum	77 1	171F0:	17- F.S	172F0S	172F7S	SFh7	l l b
pu?ur	- 4 1	7SF.S	- : 1F2S	hhF-6	10hF72		l l b
i erbAum	1h: 1				112		G
i erbAum	1h: 2				1Sh		G
i EsPAum	2S- 1	SF4-	SF44	SF40	SF4h	4F.1	l l b
i EsPAum	2Sh 1	SF44	SF4-	SF42	SF4-	2F66	l l b
i An	117 1	6Fh1	6F7:	6FhS	6F6-	- F-0	l l b
i A&snAum	40 1	4S1F6-	41SF42	41SFh:	4S0Fhh	1F26	l l b
UrsnAum	2- 7 1	- F6S	- F6-	- F01	- F64	1F4:	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J22J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	02F:	0- F46	0- F- :	0- F27	SF- 4	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7: 1				116		G
Y&&Aum	7: 2				1S:		G
ZAnq	66 2	224- F00	22- 7F46	2262F2:	2247F17	SFh6	l l b
ZAqonAum	: S 1	2F04	2F6h	2F7:	2F06	4F- 1	l l b
ZAqonAum	: 1 1	2F00	2Fh7	2F7:	2F0h	hF6-	l l b

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LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t AR&n5:. sq&ar:J	1
t s&:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5&w
cRmA5Aum	20 2	M112MCy6	M1y66C46	MSSy4C12	M1S62C19	1C94	l l b
c5&mn5h	121 1	4y1C9y	MS1C69	MS1C16	4y9C24	1C11	l l b
crwe5Aq	0M2	M27CM6	M70Cy1	M7SCS9	M7SCM2	1C7M	l l b
BsrAum	17M1	2461C90	240yC9S	2M1yC40	2490CSM	1C1y	l l b
BsrAum	170 1	27ySCS7	2462C7y	2MS7C1S	24M1C94	2C74	l l b
BerhRAum	y 1	460CC1	460C19	469CSy	460C66	SC1S	l l b
BAumu&%	2Sy 1				y6		E
BAumu&%	2Sy 2				9y		E
BrnmA5e	91 1						ql w
3 sOmAum	1S9 1	49MCy9	4y6C40	4y0C69	4y7C79	1C7S	l l b
3 sOmAum	1S6 1	46yC9M	490Cy0	496C16	491C77	2CS0	l l b
3 sOmAum	111 1	40SCS9	4y1C97	490Cy	497C24	2C7y	l l b
3 sRqAum	47 1	27M217C62	244MS0Cy2	24M607C72	2410y9C2y	2C70	l l b
3 sRqAum	44 1	271999Cy2	24S020C16	27979yCS9	270SS1C02	1Cy7	l l b
3 srbn5	12 1						ql w
3 srbn5	12 2						ql w
3 %nrA5e	7M1						ql w
3 %nrA5e	7M2						ql w
3 %nmAum	M2 2	497C17	4y1C22	496Cy2	490CSy	SC97	l l b
3 nbsR&	My 2	496C7M	4ySC74	49yC17	499C61	SC42	l l b
3 nl l er	67 2	MSSSC90	MS6MC70	MS2MC1y	MS7SC40	SC6M	l l b
t hwl rnwAum	1M6 1						ql w
t hwl rnwAum	1M6 2						ql w
GrbAum	164 1						ql w
GrbAum	164 2						ql w
HsOnR5Aum	16S 1						ql w
HsOnR5Aum	16S 2						ql w
KnRmAum	16M1				1S4		E
KnRmAum	16M2				yM		E
D5OAum	11M1				y0		E
D5OAum	11M2				9M		E
Dn5	M4 2	1202270M0	171y1SCSM	129Sy7CS0	12yS0MCM6	1Cy7	l l b
Dn5	M6 2	12y279C14	17S74SCMM	12096MCS4	12y140Cy1	SCy6	l l b
Dn5	M0 2	12yy97C67	17SS12C9M	171606C07	17SMM0C04	SC04	l l b
krhl &a5	97 1						ql w
LesO	2S6 1	2462C79	24y6C2y	2MSyCy9	249yCMM	SCy9	l l b

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Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3n5Uel 1	3n5Uel 2	3n5Uel 7	cRvC3n5qC	3n5qUpt	F5&w
LesO	2S0 1	2479C1S	2490C6y	2462C40	2462C06	1CS1	I I b
LesO	2S9 1	24M5CSS	2497CS1	24y40My	240MC96	SCy7	I I b
LA&%Aum	6 1				99		E
g sv5ewAum	24 2	2M6000C60	2M0004Cy1	26S292C6S	2M9209C7y	SC0S	I I b
g s5vs5ewe	MM2	M19SC2S	M294CyS	M19yC64	M219C2M	1C11	I I b
g nPbOe5um	y4 1	400yC6y	4y06C26	4y70C69	49y0C99	2C17	I I b
g nPbOe5um	yM1	49MyC2S	4yy9C42	49y6Cy9	4y19C2S	1C46	I I b
g nPbOe5um	y6 1	409SC69	M5ySC7y	497SC66	4ySS0M9	7C7y	I I b
g nPbOe5um	y0 1	4096C74	M5000M2	49MM0C6	4yS60M4	7C1S	I I b
g nPbOe5um	y9 1	409S0M0	4y41CSM	4y72C6y	4994C00	1C9M	I I b
NenOhmAum	1M5 1						ql w
NenOhmAum	1M5 2						ql w
NAqfeP	6S 2	4y2Cyy	M57CM6	4yyC74	4y9C67	1CS0	I I b
8%nwl %nruw	71 2	yy64C49	1S140CSM	y9yyCMy	1SSS7C01	1C29	I I b
8n&swwAum	7y 2	12yM14C7S	17S2M5CSS	129297C19	12y74yC16	SC00	I I b
U%nOAum	1S7 1				y7		E
U%nOAum	1S7 2				96		E
pqs5OAum	4M1				y6		E
pqs5OAum	4M2				94		E
pere5Aum	92 1	4M9CMy	407C47	404C41	469C91	1C9y	I I b
pere5Aum	00 2	M67C19	M4yCy2	M7yCM4	MM5C99	2C1M	I I b
pere5Aum	09 2	M16C19	M24C4y	M2SC1S	M2SC26	SC9S	I I b
pAAqn5	29 1	M51C27	M12C0M	M10CM5	M1SC4y	1C64	I I b
pARer	1S0 1	466CSM	4yMCMM	407CS4	409C21	7C22	I I b
pARer	1Sy 1	407CS6	494C14	490C42	491CM4	1CM6	I I b
pnOAum	27 2	2Myy72C7M	26202SC19	2699120CM7	267921C6y	1C02	I I b
p&n5&Aum	96 1	12102CS2	1224MC67	12241C2y	1221yC6M	SC74	I I b
p&n5&Aum	99 1	11y4yCyy	1212yC42	12724CM7	12174C6M	1CM4	I I b
puRVr	74 1	90020My	y269C20	yMM2CS9	y1y0C6M	4C2y	I I b
i erbAum	1My 1				1S7		E
i erbAum	1My 2				y4		E
i %sRAum	2S7 1	M5MCy6	M12C01	M12CyS	M1SCM2	SC00	I I b
i %sRAum	2SM1	4y1CSS	M51CS1	M5SC21	4y0C4S	1C12	I I b
i A5	119 1	499C01	M52Cy1	49yCy0	4y7C96	1CMy	I I b
i A&5Aum	40 1	4940Cyy	4y1yC17	4y41C27	4yS2C09	SCyy	I I b
Frs5Aum	279 1	492CCM	49MCMM	4y0CM5	499C6S	1C6S	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:c qduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5A&w
- s5sOAum	M1 2	M21Cy0	M22C24	M10C47	M2SC3M	SC3M2	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	9y 1				y9		E
Y&&Aum	9y 2				96		E
ZA5q	66 2	4912C7M	4y11Cy4	4y12CSM	4909CC9	1C19	l l b
ZAqn5Aum	yS 1	40SC64	4y7C67	494C76	492C99	2C4S	l l b
ZAqn5Aum	y1 1	4MMC7M	40MCCS	466C61	46MC9y	2C1y	l l b

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Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
AlNu iniNu	2072	- GSS	1C06	2C42	2G M	2yC0	ppm
Antiu onh	12171	SC1y	SC1M	SC2-	SC1M	21C14	ppm
Aesbnic	0y72	SGS6	SGS4	SGSM	SGS6	- 6C4M	ppm
BaeiNu	1- y71	SGS:	SGS:	SGSS	SGS6	: 1G 1	ppm
BaeiNu	1- 071	SC1S	SGS0	SGS2	SGS6	62GS2	ppm
BbehlliNu	M71	SGS0	SGS6	SGS4	SGS6	24C04	ppm
Bisu Nt%	2SM71				1Sy		E
Bisu Nt%	2SM72				M		E
Beou inb	: 171						cps
3 adu iNu	1S: 71	7SGS6	SC2M	7SGS2	SGS0	204C06	ppm
3 adu iNu	1S671	7yC :	76GS1	72C6	74C0y		ppm
3 adu iNu	11171	SGSS	SGS1	SGS4	SGS2	1S: C -	ppm
3 alciNu	4- 71	0C0:	0C1 :	2C40	yC 1	ySC1S	ppm
3 alciNu	4471	yyG S	y- C 4	y- C0y	y4G S	1G6S	ppm
3 aemon	1271						cps
3 aemon	1272						cps
3 %oeinb	- y71						cps
3 %oeinb	- y72						cps
3 %eou iNu	y272	SGS6	SGS6	SGS:	SGS0	2SG64	ppm
3 omalt	yM72	SGS-	SGS2	SGS2	SGS2	24GSy	ppm
3 oppbe	6- 72	SC0M	SC y	SC0y	SC 6	1- C 1	ppm
DhspeosiNu	1y671						cps
DhspeosiNu	1y672						cps
5 emiNu	16471						cps
5 emiNu	16472						cps
GadoliniNu	16S71						cps
GadoliniNu	16S72						cps
Holu iNu	16y71				1Sy		E
Holu iNu	16y72				M		E
IndiNu	11y71				1S4		E
IndiNu	11y72				M-		E
Ieon	y472	: Gy0	0GS2	yG 2	6C0	2- G M	ppm
Ieon	y672	0C10	6C01	4C4y	6C1	2- C 1	ppm
Ieon	y072	1SGy:	6Gy2	6C0y	: GS2	20C -	ppm
Kehpton	: - 71						cps
Lbad	2S671	SC1M	SC1:	SC14	SC10	1yC2S	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
Lbad	2S071	SC1M	SC1:	SC1y	SC10	12G M	ppm
Lbad	2S: 71	SC2S	SC1:	SC14	SC10	10C4S	ppm
Lit%iNu	671				M4		E
g avnbsiNu	2472	21C0-	11C12	: CS6	1- C64	y2C6-	ppm
g anvanbsb	yy72	SC1M	SG 2	SC21	SC24	2: G -	ppm
g olhmdbnNu	M471	SC4M	SC4-	SC2M	SC4S	24Cy	ppm
g olhmdbnNu	My71	SG :	SC42	SC2M	SG 6	10C00	ppm
g olhmdbnNu	M671	SC46	SGy	SC26	SG 6	20Cy	ppm
g olhmdbnNu	M071	SC46	SG 0	SC24	SG 6	- SC0S	ppm
g olhmdbnNu	M 71	SC4y	SG 6	SC26	SG 6	26Cyy	ppm
8 bodhu iNu	1yS71						cps
8 bodhu iNu	1yS72						cps
8 ickbl	6S72	SCS0	SC1S	SCS0	SCS:	22G M	ppm
P%osp%oeNs	- 172	70MC4-	700Cy2	741C62	766C1M		ppm
PotassiNu	- M72	1S6C4-	6: C6-	y0C1-	00C4S	- - G -	ppm
U%odiNu	1S- 71				1S-		E
U%odiNu	1S- 72				M0		E
r candiNu	4y71				1S1		E
r candiNu	4y72				: :		E
r blbniNu	: 271	SCS-	7SG S	7SC16	7SC14		ppm
r blbniNu	0072	7SG :	7SG :	7SG :	7SG :		ppm
r blbniNu	0: 72	SC06	7SC1M	SC0M6	SCy1	121CSy	ppm
r ilicon	2: 71	SC2:	SC21	SC2S	SC2-	1MCS-	ppm
r ilRbe	1S071	SCS4	SCS4	SCS-	SCS4	1MC4:	ppm
r ilRbe	1SM71	SCS-	SCSy	SCS1	SCS-	y: C21	ppm
r odiNu	2- 72	2S0Cy2	1yyG -	1- 4C4-	16yC06	22C01	ppm
r teontiNu	: 671	SCy1	SC4S	SC14	SGy	y- CyM	ppm
r teontiNu	: : 71	SCy1	SGy	SC1:	SG 4	40C00	ppm
r NifNe	- 471	70- yC41	7- 1yC2M	72M6Cy4	744MCS:		ppm
TbemiNu	1yM71				1Sy		E
TbemiNu	1yM72				M6		E
T%alliNu	2S- 71	SC21	SC1:	SC16	SC1:	1- C04	ppm
T%alliNu	2Sy71	SC21	SC1:	SC10	SC1M	MG 1	ppm
Tin	11: 71	7SCS0	7SCS-	7SCS1	7SCS4		ppm
TitaniNu	4071	SC1-	SC12	SCSy	SC1S	42C22	ppm
F eaniNu	2- : 71	SCS2	SCS1	SCS1	SCS1	16G M	ppm

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LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
VanadiNu	y172	SGS2	SGS2	SGS1	SGS2	- : G 6	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	: M71				1S-		E
YtteiNu	: M72				M2		E
Zinc	6672	SG62	SGyS	SG 0	SGyS	2y0M2	ppm
ZieconiNu	MS71	SGS1	SGSS	SGSS	SGS1	M4 G2-	ppm
ZieconiNu	M171	SGS2	7SGS1	7SGS1	SGSS	166- 2G1 :	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 04	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	2J0- - F77	240- 4FJ2	27J21F44	26- 2hFhJ	0F4J	l l b
cn&mon%	121 1	SF6-	SF0S	SF01	SF67	6F72	l l b
crwenAq	0J 2	6F- 1	6F24	0F66	6F04	11F70	l l b
BsrAum	1- J 1	J17F- 7	JS1F12	4h- F- h	JS4F2h	2FJ4	l l b
BsrAum	1- 0 1	J2hF- h	JShF6h	JSJFS-	J14F0S	2FJ1	l l b
Ber%BAum	h 1	1FhJ	1F7h	1F7-	1F7h	- F- h	l l b
BAumu&E	2Sh 1				1S6		G
BAumu&E	2Sh 2				114		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F0h	1FJS	1F- J	1FJJ	14F- 4	l l b
RsOmAum	1S6 1	SF20	SFJS	SFh4	SFJ0		l l b
RsOmAum	111 1	SFhJ	1FS6	SFhJ	SFhh	6FJh	l l b
RsRqAum	4- 1	17hhJFhJ	1724- F47	171ShF- 7	1744hF6S	2FJh	l l b
RsRqAum	44 1	1h- hSFhJ	1h2SJF7-	1h22SF1J	1h202F- 1	SFJ-	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	16F- 2	1JF1J	10F2h	16F2J	6F6S	l l b
RobsR&	Jh 2	1SF74	1SF1J	11F6-	1SF77	6F7S	l l b
RolI er	6- 2	- 2F- 0	2hF02	- - F4S	- 1F7-	JFh6	l l b
t %wI rowAum	1J6 1						ql w
t %wI rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				1S7		G
y oPmAum	16J 2				116		G
DrOAum	11J 1				1SJ		G
DrOAum	11J 2				1S0		G
Don	J4 2	272h6Fh0	266h1FhS	- S- 71F02	274J6F76	6FJS	l l b
Don	J6 2	2700hFJ2	20204FJS	- S6h6F7h	27h16Fh0	JFh-	l l b
Don	J0 2	2667JF21	24070F67	27620F77	260SSF2J	0F1h	l l b
Kr%&on	7- 1						ql w
LesO	2S6 1	42F16	41F7J	41Fh-	41Fh7	SF- h	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 04	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	- hF61	- hF76	- hF7h	- hF0h	SF- h	l l b
LesO	2S7 1	41FSh	4SF64	4SF71	4SF74	SFJ6	l l b
LAEAum	6 1				h6		G
MsgnewAum	24 2	JSh7F60	4717F62	JJ6hF10	J162F16	0F- J	l l b
Msngsnewe	JJ 2	6S2F04	J0- F42	6J- F- 0	6ShF74	6F6-	l l b
MoP%bOenum	h4 1	hF71	hF17	hF- 4	hF44	- F46	l l b
MoP%bOenum	hJ 1	1F42	1F4S	1F4J	1F42	1F0-	l l b
MoP%bOenum	h6 1	2F- 6	2F21	2F17	2F2J	4F- h	l l b
MoP%bOenum	h0 1	1F- h	1F20	1F2h	1F- 2	4F6S	l l b
MoP%bOenum	h7 1	1F4J	1F42	1F- h	1F42	2F1-	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1- FS-	12FJ6	1- F64	1- FS7	4F1J	l l b
8EowI Eoruw	- 1 2	1602FhJ	16J6FJ6	2SS1FS2	1006F74	1SFh4	l l b
8o&swwAum	- h 2	6SS6Fh0	J06JF06	6J02F70	611JF2S	6F00	l l b
5EoOAum	1S- 1				1S-		G
5EoOAum	1S- 2				111		G
pqsnOAum	4J 1				1S2		G
pqsnOAum	4J 2				1S4		G
pe?enAum	72 1	SFhh	SFhJ	1FS4	SFhh	4F- -	l l b
pe?enAum	00 2	24F20	- SF00	- 2Fh-	2hF- 2	1JF- 0	l l b
pe?enAum	07 2	0FS0	4F6J	0F42	6F- 7	2- F64	l l b
pAAqon	27 1	14hF11	14- FJ6	14SFJh	144F42	2Fhh	l l b
pA?er	1S0 1	SF24	SF21	SF22	SF22	0F2-	l l b
pA?er	1Sh 1	SF2-	SF2-	SF21	SF2-	JF77	l l b
poOAum	2- 2	J4SF12	4- 7F27	J14F02	4h0F01	1SF6J	l l b
p&on&Aum	76 1	J- 0FJ6	J14F- 1	J12F6-	J21FJS	2F60	l l b
p&on&Aum	77 1	JJJF7-	J4JF- S	J- 2F44	J44FJ2	2F1J	l l b
pu?ur	- 4 1	4JhF- S	17JF10	J26F20	74FSJ		l l b
i erbAum	1Jh 1				1S0		G
i erbAum	1Jh 2				11-		G
i EsPAum	2S- 1	SFJ7	SFJ7	SF61	SFJh	2Fh0	l l b
i EsPAum	2SJ 1	SFJ6	SFJ0	SFJ4	SFJ6	2F47	l l b
i An	117 1	1F4J	1F- 0	1F4h	1F44	4F- J	l l b
i A&snAum	40 1	hSF62	7JFJ4	74Fhh	70FSJ	- FJ0	l l b
UrsnAum	2- 7 1	2F- J	2F- 2	2F- 6	2F- 4	SF74	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 04	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	J1FJ4	47F70	JJF42	J1Fh4	6F- 4	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S7		G
Y&&Aum	7h 2				121		G
ZAnq	66 2	2S4FJS	1h2F16	216F- h	2S4F- J	JFh-	l l b
ZAqonAum	hS 1	4Fh-	4F0J	4F6S	4F06	- F4h	l l b
ZAqonAum	h1 1	4F7S	4F4h	4F07	4F6h	- F60	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0J	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1J670F07	10J4hF44	10JS1F1J	16h12F0h	6F20	l l b
cn&mon%	121 1	SF44	SFJ-	SF61	SFJ2	1JF76	l l b
crwenAq	0J 2	7F1S	7Fh-	7F-2	7F4J	JF12	l l b
BsrAum	1- J 1	- J0F16	- 02FJ7	- 66Fh2	- 6JFJ6	2F1-	l l b
BsrAum	1- 0 1	- 66F21	- 0- F1S	- 01Fh6	- 0SF42	1FSS	l l b
Ber%BAum	h 1	1FJ1	1F61	1F4h	1FJ4	4F17	l l b
BAumu&E	2Sh 1				1S7		G
BAumu&E	2Sh 2				1S7		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1FS7	SF72	1F2S	1FS-	17F4S	l l b
RsOmAum	1S6 1	1F20	2F61	2F0-	2F2S		l l b
RsOmAum	111 1	SFJ-	SFJ4	SF47	SFJ2	6FS4	l l b
RsRqAum	4- 1	hJ27F1S	hhh7F1h	h6- SF67	h017Fhh	2FJ4	l l b
RsRqAum	44 1	1S22hF26	1S2h1F7h	1SS77F02	1S2S- F2h	1FS2	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	1JFJh	10F4S	10F1-	16F01	JF74	l l b
RobsR&	Jh 2	7F71	hFh2	hF04	hF4h	6F27	l l b
Rol l er	6- 2	22FS0	2JFS-	2JFS2	24FS4	0F11	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				1Sh		G
y oFmAum	16J 2				112		G
DrOAum	11J 1				1S7		G
DrOAum	11J 2				1SJ		G
Don	J4 2	- 1471F11	- 4h66F1S	- J021F76	- 4SJ6F-6	6F64	l l b
Don	J6 2	- Sh- 2FJ7	- 47- - FhS	- 46S6F16	- - 4J0FJJ	6FJ4	l l b
Don	J0 2	2hS20F26	- 2241F10	- 2204F70	- 1171F1S	JFh7	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	- 4Fhh	- JF0J	- JF0-	- JF4h	1F22	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 0J	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	- - F17	- - Fh7	- - F72	- - F66	1F2J	l l b
LesO	2S7 1	- 4F2h	- 4Fh0	- 4F02	- 4F66	SFh7	l l b
LAEAum	6 1				h0		G
MsgnewAum	24 2	- 0h6FSh	42J4F- S	41h7F4h	4S72Fh6	6F12	l l b
Msngsnewe	JJ 2	62SF16	67hF0-	6h6F1h	667F6h	6F- S	l l b
MoP%bOenum	h4 1	JFJS	JF0J	JF00	JF67	2F67	l l b
MoP%bOenum	hJ 1	1F- 1	1F44	1F- S	1F- J	JFhJ	l l b
MoP%bOenum	h6 1	1F74	1Fh1	1F74	1F76	2F1J	l l b
MoP%bOenum	h0 1	1F47	1F- 0	1F4J	1F4-	4FS1	l l b
MoP%bOenum	h7 1	1F44	1F- S	1F- 7	1F- 0	4F7h	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1- Fh0	1JF7J	1JFJ4	1JF12	6F64	l l b
8 EowI Eoruw	- 1 2	1- - 6F- -	1J2JF7J	14JSF2S	14- 0F46	6F64	l l b
8 o&swwAum	- h 2	4711FS2	J- - 0F74	J- 2hF21	J 1JhF- 6	JF7J	l l b
5 EoOAum	1S- 1				1S0		G
5 EoOAum	1S- 2				112		G
pqsnOAum	4J 1				1S6		G
pqsnOAum	4J 2				1S2		G
pe?enAum	72 1	1FS1	1FS7	1FS4	1FS4	- F02	l l b
pe?enAum	00 2	- hF76	- JF07	- 7F20	- 0Fh0	JF42	l l b
pe?enAum	07 2	0F2-	6F6h	0F70	0F26	7F16	l l b
pAAqon	27 1	1- hF4-	142F60	14SF7h	141FSS	1F1J	l l b
pA?er	1S0 1	SF14	SF1-	SF1J	SF14	6F01	l l b
pA?er	1Sh 1	SF1-	SF14	SF14	SF14	6F2J	l l b
poOAum	2- 2	12JF24	14JF76	141F- h	1- 0FJS	0F7h	l l b
p&on&Aum	76 1	211F76	211F16	21JF1S	212F01	SFhh	l l b
p&on&Aum	77 1	224F6J	226F21	22hF76	226Fh1	1F17	l l b
pu?ur	- 4 1	1S2hF67	hShF- 6	1S40F40	hhJFJS		l l b
i erbAum	1Jh 1				1Sh		G
i erbAum	1Jh 2				111		G
i EsPAum	2S- 1	SF4S	SF4S	SF4J	SF42	6Fhh	l l b
i EsPAum	2SJ 1	SF- h	SF4J	SF4-	SF42	0F6h	l l b
i An	117 1	1F44	1FJ4	1FJ7	1FJ2	4F0S	l l b
i A&snAum	40 1	22hF4-	2- 7Fh2	2- - F2h	2- - F77	2FS4	l l b
UrsnAum	2- 7 1	1F0h	1F07	1F71	1F0h	SF0S	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0J	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	JSF46	JJFJ1	JJF77	J- FhJ	JF61	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11-		G
Y&&Aum	7h 2				12S		G
ZAnq	66 2	14hFSS	16JF20	160F02	16SF66	6F- -	l l b
ZAqonAum	hS 1	2FJ7	2FJ-	2F6-	2FJ7	1Fh7	l l b
ZAqonAum	h1 1	2FJ2	2FJh	2F44	2FJ2	- FS1	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 06	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	2J- h6F4J	24741FJ0	2Jh7JFSS	2J4S0F60	2F2J	l l b
cn&mon%	121 1	SF- 6	SFJ1	SF41	SF4-	10F2S	l l b
crwenAq	0J 2	0F22	0F2J	0F- 2	0F26	SF0-	l l b
BsrAum	1- J 1	- 0- F2J	477F71	- 72FJh	414F77	1JF40	l l b
BsrAum	1- 0 1	- 67FhS	4hhF00	- 76F04	417F40	16Fh6	l l b
Ber%BAum	h 1	1F77	2F4J	2FS2	2F12	14F26	l l b
BAumu&E	2Sh 1				1S1		G
BAumu&E	2Sh 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1FS0	1FJJ	1F0S	1F44	22Fh0	l l b
RsOmAum	1S6 1	1F24	2F04	1FS4	SF7J		l l b
RsOmAum	111 1	SF7J	1FS4	SF0S	SF76	1hF4-	l l b
RsRqAum	4- 1	16114F0S	2S0- JF4S	16262FS6	100S4FS6	14F7-	l l b
RsRqAum	44 1	16h1JFJh	21161F0S	10140F4S	174S7F2-	12Fh0	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	16F06	16FSS	16F60	16F47	2FJ-	l l b
RobsR&	Jh 2	14F24	1- F0J	14FJS	14F16	2F60	l l b
Rol l er	6- 2	- - F1S	- 2F24	- 2F7-	- 2F02	1F- J	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16J 1				1S2		G
y oFnAum	16J 2				1S6		G
DnOAum	11J 1				1S1		G
DnOAum	11J 2				1S2		G
Don	J4 2	- 2146F20	- S10hF10	- 246SF4J	- 1JhJF- S	- Fh1	l l b
Don	J6 2	- 112hF11	- S470F0h	- 1671F61	- 1ShhFJS	1Fh2	l l b
Don	J0 2	27h02F41	27- hhF1-	2h274F4S	2777JF- 1	1FJJ	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	- 4F47	4- F42	- - F7-	- 0F24	14F- h	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 06	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	- - F1S	41F04	- 1Fh7	- JF61	14Fhh	l l b
LesO	2S7 1	- - F22	42F46	- - FSS	- 6F2-	14Fh1	l l b
LAEAum	6 1				h-		G
MsgnewAum	24 2	J- 70F20	J21- F1-	JJ16FSS	J- 02F1-	2F7-	l l b
Msngsnewe	JJ 2	762F61	74- F70	76JFS1	7J0F16	1F- J	l l b
MoP%bOenum	h4 1	7F01	11F4S	hF- 1	hF71	14F41	l l b
MoP%bOenum	hJ 1	SFh6	1F- 2	1FSS	1FSh	10F71	l l b
MoP%bOenum	h6 1	1F00	2F4-	1Fh7	2FS6	16FJS	l l b
MoP%bOenum	h0 1	SFh-	1F- 6	1FS0	1F12	1hF6h	l l b
MoP%bOenum	h7 1	1FSS	1F- S	1FS7	1F1-	14FS2	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1JFS0	1JF17	14Fh4	1JFS6	SF71	l l b
8EowI Eoruw	- 1 2	h6- F11	120JFJ0	116hF74	11- 6F10	1- Fhh	l l b
8o&swwAum	- h 2	4024Fh6	46S0F22	4726F1S	401hF42	2F- 2	l l b
5EoOAum	1S- 1				1S1		G
5EoOAum	1S- 2				1S6		G
pqsnOAum	4J 1				1S2		G
pqsnOAum	4J 2				h7		G
pefenAum	72 1	SFJ7	1F2-	SF0J	SF76	- hF61	l l b
pefenAum	00 2	2JFSS	- hF6h	2SF7-	27FJ1	- 4F04	l l b
pefenAum	07 2	0F66	6F07	0F- 4	0F26	6F1J	l l b
pAqon	27 1	1J6Fh2	1hhF27	162FS-	102F04	1- F- 7	l l b
pAer	1S0 1	SF16	SF24	SF22	SF21	17Fh4	l l b
pAer	1Sh 1	SF2S	SF26	SF10	SF21	2SF26	l l b
poOAum	2- 2	6J0F- 4	6JhF76	6h2F47	66hFhS	2Fh-	l l b
p&ona&Aum	76 1	- 0- F4h	47JF7-	- 7SFJ0	41- F- S	1JF22	l l b
p&ona&Aum	77 1	- h6FSS	JShF- J	- hhFS6	4- 4F7S	14F7J	l l b
pufur	- 4 1	16- SF06	hJJFJ7	14- 1F01	0S2F- S		l l b
i erbAum	1Jh 1				1S4		G
i erbAum	1Jh 2				1SJ		G
i EsPAum	2S- 1	SF4-	SFJ0	SF41	SF40	17F04	l l b
i EsPAum	2SJ 1	SF44	SFJ4	SF46	SF47	1SFhS	l l b
i An	117 1	1F7-	2F4J	1F70	2FSJ	16F0h	l l b
i A&snAum	40 1	64F62	07F41	6- F11	67F02	12F20	l l b
UrsnAum	2- 7 1	2F21	2F7h	2F2S	2F4-	16F- 2	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 06	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	6SF61	6SFh6	6- F-4	61F64	2F41	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S0		G
Y&&Aum	7h 2				11-		G
ZAnq	66 2	16SF07	1J6FSJ	162FJJ	1JhF0h	2F1S	l l b
ZAqonAum	hS 1	4FJ0	6FS6	4F0-	JF12	16FS-	l l b
ZAqonAum	h1 1	4FJS	6F1S	4FJ7	JFS6	10F7-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 66BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12-CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	7F72	1F28	1F 0	2F1	40F26	l l b
c5&Amn5h	121:1	SFS2	SFS4	SFS7	SFS7	22F 0	l l b
crwe5Aq	0-:2	SFS4	:SFS1	SFS2	SFS2	118F71	l l b
BsrAum	17-:1	SF1-	SF11	SFS8	SF11	71F00	l l b
BsrAum	170:1	SF11	SFS8	SFS-	SFS8	41FS4	l l b
BerhFAum	:1	SFS7	SFS4	SFS4	SFS7	16F78	l l b
BAumu&%	2S :1				112		E
BAumu&%	2S :2				1S8		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF14	SFS4	SFS1	SFS0	1S4F- -	l l b
CsOmAum	1S6:1	:6F10	:6F12	:6F0	:6F76		l l b
CsOmAum	111:1	:SFS7	:SFS7	:SFS4	:SFS4		l l b
CsRqAum	47:1	6F27	0F02	- F67	6F- 7	16F- 4	l l b
CsRqAum	44:1	71F80	76F 4	72F47	77F0-	8F27	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	SF17	SF12	SFSS	SFS8	8-F20	l l b
CnbsR&	- :2	SFS1	SFS1	SFSS	SFS1	41F2-	l l b
CnI I er	67:2	SF- 6	SF76	SF20	SF4S	70F 2	l l b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				112		E
HnRmAum	16-:2				1S8		E
D5OAum	11-:1				111		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	-F07	1F 6	2F- 8	7F42	- F1S	l l b
Dn5	-6:2	-F0-	2F22	2F- 4	7F- S	- - F61	l l b
Dn5	-0:2	-F82	7FS7	1F80	7F- 0	-6F86	l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF12	SF17	SF12	SF12	2F48	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 66BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12-CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5	SF17	SF1S	SF11	18F44	I I b
LesO	2S8:1	SF11	SF17	SF11	SF12	8F64	I I b
LA&%Aum	6:1				0		E
y sM5ewAum	24:2	1SF 4	7F48	7F74	-F 2	07F47	I I b
y s5Ms5ewe	- - :2	SF71	SF5	SF17	SF18	60F71	I I b
y nPbOe5um	4:1	SF17	SF1S	SF5	SF11	1 F62	I I b
y nPbOe5um	-:1	SF1S	SF17	SF50	SF1S	71FSS	I I b
y nPbOe5um	6:1	SF11	SF17	SF11	SF12	8FS8	I I b
y nPbOe5um	0:1	SF5	SF12	SF58	SF1S	27F48	I I b
y nPbOe5um	8:1	SF12	SF12	SF56	SF1S	71F02	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF51	SF57	SF57	SF52	46F 2	I I b
3%nwl %nruw	71:2	:07FSS	:-4F3	:81F14	:6 F68		I I b
3n&swwAum	7 :2	16F0S	1SF-	17F48	17F01	21FSS	I I b
v %nOAum	1S7:1				112		E
v %nOAum	1S7:2				1S8		E
pqs5OAum	4-:1				11S		E
pqs5OAum	4-:2				1SS		E
pefe5Aum	82:1	:SF-1	:SF22	:SF71	:SF7-		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	SF5-	:SF07	SF1-	:SF18		I I b
pAqn5	28:1	:SF27	:SF22	:SF20	:SF24		I I b
pAger	1S0:1	SF52	SF51	SF51	SF51	2 F04	I I b
pAger	1S :1	SF51	SF51	SF51	SF51	17F3S	I I b
pnOAum	27:2	24F37	16F-S	1 F7	2SF24	2SF 1	I I b
p&n5&Aum	86:1	SF20	SF20	SF76	SF7S	16F34	I I b
p&n5&Aum	88:1	SF72	SF67	SF1	SF78	6SF4	I I b
pufur	74:1	:2-0SF S	:2277F-0	:2-S4F7S	:2476F26		I I b
i erbAum	1- :1				111		E
i erbAum	1- :2				1S0		E
i %sPAum	2S7:1	SF56	SF58	SF54	SF56	28F37	I I b
i %sPAum	2S-:1	SF50	SF56	SF56	SF56	17F0S	I I b
i A5	118:1	:SF57	SF5S	:SF52	:SF52		I I b
i A&5Aum	40:1	SF56	SF12	SF16	SF11	4-F68	I I b
Rrs5Aum	278:1	SF51	SF51	SF5S	SF51	4SF31	I I b

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LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1- 7 66BL	D5w&um5e&Nsme9J	3 8
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12- CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	- 1:2	SF5S7	SF5SS	SF5S1	SF5S1	110F62	l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				111		E
Y&&Aum	8 :2				1S4		E
ZA5q	66:2	SF2S	SF5S8	SF1	SF1-	41F- 8	l l b
ZAqn5Aum	S:1	SF5SS	:SF5S1	SF5SS	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S2	SF5S2	SF5S1	SF5S1	4SSF24	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 66B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l &JD JaJ	LC: 66	t A8m8A5JJwq&apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&WJA8 Juwb r Ja	126LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	70F 2	77F7N	7NF60	76F6-	0FN1	l l e
c5&b n5h	12191	7F10	7F2	7F1-	7F2S	2F42	l l e
cpl r 5Aq	0-92	2F1S	1F-	1F 4	1FN0	17F04	l l e
BwpAmb	17-91	1-F-4	1-F07	16F12	1-FNS	1FNN	l l e
BwpAmb	17091	1-FN-	16FS7	1-F---	1-FN1	1F-2	l l e
Br ph8Amb	91	1F-0	1F6N	1F66	1F64	7F-6	l l e
BAb m8%	2S 91				1S-		E
BAb m8%	2S 92				1S4		E
Bpmb A5r	N191						qll
CwOb Amb	1SN91	1FN-	2F1S	1F7N	1F0N	2SF76	l l e
CwOb Amb	1S691	92FN2	94F70	94F0S	97F 6		l l e
CwOb Amb	11191	1F6	1F60	1FN4	1F07	-F-S	l l e
Cw&pAmb	4791	026F21	026F0-	02NF-7	020F16	SF10	l l e
Cw&pAmb	4491	04-F02	0-7FNN	04 F 6	04 FN-	SF-4	l l e
Cwpen5	1291						qll
Cwpen5	1292						qll
C%&npA5r	7-91						qll
C%&npA5r	7-92						qll
C%pmb Amb	-292	7F-7	7F1	7F64	7F46	6FN7	l l e
Cnew&&	- 92	1F 7	1F02	1FNN	1FN4	6FS1	l l e
CnI l r p	6792	7F N	7F06	4FSS	7F 1	7F42	l l e
t hl l pnl Amb	1-691						qll
t hl l pnl Amb	1-692						qll
. peAmb	16491						qll
. peAmb	16492						qll
GwOn8A5Amb	16S91						qll
GwOn8A5Amb	16S92						qll
Hn8b Amb	16-91				1SN		E
Hn8b Amb	16-92				1S7		E
D5OAmb	11-91				1S0		E
D5OAmb	11-92						E
Dpn5	-492	707F-S	741F2-	7-4F	7-6F-N	4F-4	l l e
Dpn5	-692	767FS2	771F--	7-1F4	74NF6	4F-0	l l e
Dpn5	-092	7- F64	72SF01	741F1N	74SF-1	-F02	l l e
Kphl &a5	N791						qll
LrwO	2S691	1F40	1F-	1F-4	1F-7	4FS	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 66B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 66	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&wUA8 Juwb r Ja	126LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F67	1F-	1F61	1F61	1F10	l l e
Lr wO	2SN91	1F-4	1F-0	1F-4	1F--	1F1	l l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	26F0N	N-1F4	N 2F41	N SF7N	4F21	l l e
y w5Mw5r l r	- - 92	1F07	1F6N	1F0-	1F02	2FS7	l l e
y n8neOr 5mb	491	NF76	F24	NFN7	NFN1	4F N	l l e
y n8neOr 5mb	- 91	0F2S	0F72	0F46	0F77	1FN1	l l e
y n8neOr 5mb	691	0F47	0F77	0F66	0F40	2F26	l l e
y n8neOr 5mb	091	0F20	0F01	0F-4	0F-1	2F 7	l l e
y n8neOr 5mb	N91	0F-6	0F2-	0F46	0F42	2FSN	l l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1FNS	1F -	1F 1	4F61	l l e
3 %nl l %npm	7192	962FS1	906F 0	9-1F22	967F4S		l l e
3 n&w l Amb	7 92	NN7F00	0 NF N	N6-F-6	N4 F44	-F2-	l l e
v %nOAmb	1S791				1SN		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4-91				1SN		E
: qw5OAmb	4-92				6		E
: r 8 5Amb	N291	NFS6	0F 0	0F21	0F04	6FS4	l l e
: r 8 5Amb	0092	6F06	0F 0	0F0S	0F4N	NF-7	l l e
: r 8 5Amb	0N92	NF6N	F-4	F--	F26	-F42	l l e
: A8Aqn5	2N91	SFNS	SF00	SF00	SF0N	2F70	l l e
: A8gr p	1S091	1F6	1F04	1F6	1F01	1F0-	l l e
: A8gr p	1S 91	1F-	1F6	1F61	1F67	7F16	l l e
: nOAmb	2792	SNF--	N-SF06	S2F0S	NN0F74	7F-N	l l e
: 8pn5&Amb	N691	1FN7	1F01	1F61	1F02	6F22	l l e
: 8pn5&Amb	NN91	1FN1	1F64	1F62	1F6	6F16	l l e
: m8mp	7491	9224SF76	92S10F2N	92S0SF2-	921S F2		l l e
i r peAmb	1- 91				1S6		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F-2	1F-N	1F-0	1F-6	2F27	l l e
i %w8Amb	2S-91	1F-4	1F-N	1F62	1F-N	2F4N	l l e
i A5	11N91	SFS4	SFS2	9SFS1	SFS2	1-2F76	l l e
i A&w5Amb	4091	NFS4	0FN	0F 7	0F -	SF	l l e
Rpw5Amb	27N91	1F7	1F4-	1F44	1F47	2F12	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 66B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 66	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&WJA8 Ju wb r Ja	126LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	F-7	NF-S	FS4	FS2	-F6	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8qpAmb	N 91				1S0		E
Y8qpAmb	N 92				1SS		E
ZA5q	6692	F-6	F1S	NF 7	F2S	7F-	l l e
ZAqn5Amb	S91	1F44	1F-7	1F42	1F46	7F 1	l l e
ZAqn5Amb	191	1F2N	1F7	1F4	1F7	0F6-	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	hh0h4F. h	h- 080F2-	hh224F22	h4: 22F14	1F8h	I I b
cn&Amon%	12171	SF- 2	SF- 2	SF- 6	SF- -	6FS-	I I b
crsenAq	0h72	46F22	4hF6h	44F64	4hFhS	1F06	I I b
BarAum	1- h71	2hhFS8	24hF82	216F. S	2- : F26	8F- 2	I I b
BarAum	1- 071	261F4-	24: FS1	218F11	242F8h	: F1:	I I b
Ber%lAum	: 71	SF88	SF08	SF06	SF81	0F. 2	I I b
BAsmu&E	2S: 71				1SS		G
BAsmu&E	2S: 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	1F21	SFh6	SF41	SF0-	h8F42	I I b
RaOmAum	1S671	74Fh8	72F. 2	7- F22	7- Fh0		I I b
RaOmAum	11171	SF1:	SF- S	SF10	SF22	- - F4-	I I b
RalqAum	4- 71	h4- 2F80	4: : 4Fhh	4h1: F44	4: 82F2:	: F10	I I b
RalqAum	4471	h0S8F02	h- 1: F. 1	48- hF- 2	h280F. :	8F20	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	: SF8S	88F- 2	8: F04	8: F62	1F- :	I I b
Robal&	h: 72	- 6F10	- hF86	- hF64	- hF8:	SF04	I I b
Rol I er	6- 72	116Fhh	116FS2	11hFh:	116FSh	SF41	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				1S4		G
KolmAum	16h72				1S8		G
DnOAum	11h71				1SS		G
DnOAum	11h72				1S2		G
Don	h472	68: 12F- 4	68- ShF02	680h0F60	686h8Fh8	SF46	I I b
Don	h672	686- 1F. h	684: 8F. h	6: 222F14	68084F- h	SFh6	I I b
Don	h072	0S46hF. 2	6: : 8: F. :	0S016F68	0S- : SF86	SFh2	I I b
kr%l &on	8- 71						ql s
LeaO	2S671	11F28	1SF41	: F4S	1SF- 6	: FSh	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	11F14	: F: :	8F: 1	1SFS1	11F1-	I I b
LeaO	2S871	11F14	1SF1-	: F1:	1SF1h	: Fh6	I I b
LA&EAum	671				: -		G
MagnesAum	2472	2h118F4h	246: - F44	2hh01Fh8	2h120F8-	1F0h	I I b
Manganese	hh72	1- 8- Fh:	1- 6- F82	1- 06F22	1- 04Fh4	SF0-	I I b
Mol%bOenum	: 471	hF81	hF6:	hF1h	hFhh	6F28	I I b
Mol%bOenum	: h71	1F- S	1F- 0	1F1:	1F28	0F16	I I b
Mol%bOenum	: 671	1F8-	1F00	1F6:	1F06	4FSh	I I b
Mol%bOenum	: 071	1F- 1	1F44	1F22	1F- 2	8F42	I I b
Mol%bOenum	: 871	1F- 2	1F28	1F26	1F2:	2F- :	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	162F: 4	164F6h	161FSh	162F88	1F11	I I b
PEosI Eorus	- 172	862Fh-	: h- F6-	8- 6F: :	884F- 8	6F: -	I I b
Po&assAum	- : 72	12S2Fh8	118SFS8	11: 6F6S	11: - FS:	SF: 8	I I b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S1		G
pelenAum	8271	SF6h	7SF- -	SF- S	SF21	2- : F4S	I I b
pelenAum	0072	: F86	16F4:	4F60	1SF- 4	h0F- S	I I b
pelenAum	0872	1F: 1	- FS0	1Fh0	2F18	- hF: h	I I b
pAAqon	2871	- : 0F20	- 6: F64	- - SF- 1	- 6hF04	: F2S	I I b
pAver	1S071	SF1S	SF1S	SFS8	SFS:	12F86	I I b
pAver	1S: 71	SF1S	SF1S	SFS0	SFS:	10Fh2	I I b
poOAum	2- 72	2- 8F64	241F21	24- Fh-	241F1-	1FS1	I I b
p&ona&um	8671	h6F66	h4F: -	hSF62	h4FS0	hF06	I I b
p&ona&um	8871	h8F84	hhFh1	4: F: h	h4F00	8F2S	I I b
pulVur	- 471	71480F12	7244- F8-	7- - h2F- 8	72420F08		I I b
i erbAum	1h: 71				1S1		G
i erbAum	1h: 72				1S6		G
i EallAum	2S- 71	SF21	SF18	SF1:	SF1:	0F- 1	I I b
i EallAum	2Sh71	SF1:	SF18	SF16	SF18	: F4-	I I b
i An	11871	SF40	SF48	SF42	SF46	0F62	I I b
i A&anAum	4071	8h0F8h	812F14	020F- 4	0: : F11	8F2:	I I b
UranAum	2- 871	1F68	1Fh2	1F- -	1Fh1	11F84	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ane c qduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
yanaOAum	h172	12SFh8	11: F24	11: F28	11: F0S	SF64	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				1S4		G
Y&&Aum	8: 72				11S		G
ZAnq	6672	118F- 8	12SF- -	118F- 1	11: FS1	SF: 6	l l b
ZAqonAum	: S71	2F01	2Fh0	2F42	2Fh0	hF66	l l b
ZAqonAum	: 171	2F8S	2F64	2Fh6	2F60	4Fh6	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y ahq92&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1SJ2-	&sTsFdPP:u sb r :J	12NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	2040U	22S4U09	496U60	- 4N2U94	- U S	DDe
q5Tb n5%	12171	SU22	SU S	SU29	SU20	16UN-	DDe
qpwr 5cd	0 72	46UN4	42U 6	4NU14	4 UN	6U 6	DDe
Bspcmb	1- 71	22- U S	21NU02	210U21	219U60	1U 9	DDe
Bspcmb	1- 071	224U 1	21NUS	216U44	219U6S	1UN9	DDe
Br p%PPmb	971	SU06	SU6N	SU04	SU02	U44	DDe
Bcvb mTE	2S971				1S0		G
Bcvb mTE	2S972				1S6		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	SU6S	SU69	SU06	SU6N	11UN4	DDe
v sob cmb	1S671	7- U 6	74U02	72U9N	7- U0		DDe
v sob cmb	11171	SU16	SU1S	SU12	SU1-	26U1N	DDe
v sPdcmb	4- 71	461SU26	4610U69	4662U40	46- SU14	SU61	DDe
v sPdcmb	4471	S USO	49- NU 1	4929U41	4904U26	1U41	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpd5r	- 71						dDw
v EPhpd5r	- 72						dDw
v Epmb cmb	272	1S2UN-	99U 0	1S4U24	1S2U21	2U 4	DDe
v nesPT	972	- 6U91	- U42	- 0U6-	- 6U6	- USO	DDe
v nDDr p	6- 72	112U90	1S9U6S	110UNS	11- U46	- U6-	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
KnPb cmb	16 71				11S		G
KnPb cmb	16 72				1S0		G
t5ocmb	11 71				1SN		G
t5ocmb	11 72				1S1		G
tpn5	472	69N26U1	60- 00UN1	012- NU49	694NSUN2	2UN1	DDe
tpn5	672	0S046UN2	601 9U20	0S- - 1U9-	69412U60	2UN-	DDe
tpn5	072	02S62U 0	6091 USS9	010 1U 2	0S 06U26	- U20	DDe
kp%DTn5	N- 71						dDw
Lr so	2S671	9U 4	9U 0	9U1-	9U2N	1U4-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y ahq92&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1SJ2-	&sTsFdPP:u sb r :J	12NqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	NUN2	NU09	NU6S	NU04	1U S	DDe
Lr so	2SN71	9US9	9US-	NU94	9US2	SUN	DDe
LdTEmb	671				1S1		G
y sM5r wmb	2472	24462U2	2- 90SU19	2 4 9U0	246- SU62	- USN	DDe
y s5Ms5r wr	72	1- - U09	1- S0U22	1- N1U	1- 40U2	2U09	DDe
y nP%eor 5mb	9471	U21	U0	U40	U	2U4	DDe
y nP%eor 5mb	9 71	1U2N	1U2	1U2N	1U S	1U9-	DDe
y nP%eor 5mb	9671	1UN-	1U04	1U01	1U06	- U69	DDe
y nP%eor 5mb	9071	1U20	1U4-	1U-	1U4	UN-	DDe
y nP%eor 5mb	9N71	1U4	1U S	1U S	1U1	1U6S	DDe
u r no%b mb	1 S71						dDw
u r no%b mb	1 S72						dDw
u dfr P	6S72	16- U0S	1 6U4N	166U16	162U11	- U1S	DDe
8 EnwDEnpmw	- 172	N9NU62	N- 2U0	94NU4-	N9- U14	6U2	DDe
8 nTswwmb	- 972	119 U61	11- 6U	1212U6	11N1U1	- U9	DDe
CEnomb	1S- 71				1S6		G
CEnomb	1S- 72				1S		G
I ds5omb	4 71				11S		G
I ds5omb	4 72				1S1		G
I r P 5mb	N271	SU0	7SUS4	7SUS4	SU1S	24- U9	DDe
I r P 5mb	0072	14U91	NU N	1- US1	12U16	26U02	DDe
I r P 5mb	0N72	1U0-	1U99	2U02	2U1	2- U9-	DDe
I dRdn5	2N71	- - - UN2	- 2NU4	- 2NU0	- - SU1N	SU96	DDe
I dgr p	1S071	SUS0	SU1S	SUSN	SUSN	1 UN2	DDe
I dgr p	1S971	SUS0	SUS0	SUSN	SUSN	0U6N	DDe
I nomb	2- 72	242U21	210U60	244U0	2- 4UN1	6U4	DDe
I Tpm5Tmb	N671	SU1	SU41	49U4N	SU1-	1U1-	DDe
I Tpm5Tmb	NN71	SU41	49UN	49US6	49U61	1U42	DDe
I mPVmp	- 471	7- S 4UN9	7- 1 U1	7- - 29U94	7- - SSUS		DDe
Ar pemb	1 971				1S0		G
Ar pemb	1 972				1S4		G
AEs RPmb	2S- 71	SU14	SU11	SU16	SU14	1 U62	DDe
AEs RPmb	2S 71	SU16	SU12	SU14	SU14	1- US4	DDe
Ad5	11N71	SU2	SU6	SU6	SU4	6UNN	DDe
AdS5mb	4071	062U2S	049U9	0- NU60	0 SU1	1U0	DDe
Rps5mb	2- N71	1UN	1U6	1U6	1U0	SU94	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y ahq 92&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1S.J2-	&sTsFdP:u sb r :J	12NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
hs5soomb	172	121U6N	11 U 2	122U69	119U96	- U24	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N971				1S9		G
YTTpomb	N972				1S6		G
Zd5d	6672	119U10	110U06	126U	121U16	- U9S	DDe
Zqpdn5omb	9S71	2U9	2U42	2U44	2U42	1U16	DDe
Zqpdn5omb	9171	2U N	2U44	2U6S	2U 4	- U2	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - OO4LX7	DRw&Smb Rr &usb r J	8 N
v PA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- OO3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Uo

8ssSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CR&w
c Pmb ARAmb	23O2	1O173U31	1O133U-2	1O1N- UNN	1O132U-3	OU1-	I l e
c R&b nRy	12101	OU06	OU07	OU06	OU06	4UN2	I l e
c Sw r RAq	37O2	NU33	: U24	: UON	: UO-	2U61	I l e
Bs SAmb	1- 701	41U-3	41U3:	42U-:	41UN7	1U2-	I l e
Bs SAmb	1- 301	41U2-	41U33	42U-3	41U3:	1U-6	I l e
Br SyPAmb	: 01	OU13	OU16	OU1N	OU13	6U-	I l e
BAmb m&a	2O. 01				1O6		%
BAmb m&a	2O. O2				1O2		%
BSmb ARr	N101						ql w
v sob Amb	1ONO1	OUO.	OU1-	OU13	OU1-	- 1UNO	I l e
v sob Amb	1O601	O2U34	O4UNN	O7U7:	O4U4O		I l e
v sob Amb	11101	OUO4	OOUO1	OOUO-	OUOO		I l e
v sRqAmb	4- 01	N: 6UNO	NN7U64	NN7U71	NN: U1	OU3-	I l e
v sRqAmb	4401	: 24U2-	: OOU-6	: O- U3-	: O. U44	1U42	I l e
v sSenR	1201						ql w
v sSenR	12O2						ql w
v hPnSRr	- 701						ql w
v hPnSRr	- 7O2						ql w
v hSmb Amb	72O2	13U71	1NU2O	1NU12	13U-4	2UON	I l e
v nesR&	7: O2	3UO-	3U14	3U1:	3U12	1U12	I l e
v nI l r S	6- O2	2- U43	22U:	2- U66	2- U-3	1U4:	I l e
t ywl SnwAmb	1760 1						ql w
t ywl SnwAmb	1760 2						ql w
F SeAmb	1640 1						ql w
F SeAmb	1640 2						ql w
GsonPARAmb	16OO1						ql w
GsonPARAmb	16OO2						ql w
KnPb Amb	1670 1				1O7		%
KnPb Amb	1670 2				1O4		%
DRoAmb	1170 1				1O7		%
DRoAmb	1170 2				: :		%
DSmR	74O2	12364U61	12: 63UO-	12: - 7U1-	12NNNU2	OUN4	I l e
DSmR	76O2	1- 631U6:	1- N7: U-6	1- 63- U21	1- 3- 4U37	OU3:	I l e
DSmR	73O2	12612U-	12377UNN	12N: 7U1O	12374U64	1U11	I l e
k SyI &aR	N- 01						ql w
Lr so	2O601	1U-7	1U36	1UN3	1UN6	7U1N	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - OO4LX7	DRw&Smb Rr &usb r J	8 N
v PA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- OO3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Uo

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
Lr so	2O301	1U3:	1U66	1U32	1U32	- U72	I l e
Lr so	2ON01	1UN6	1U37	1UN2	1UN1	- U2O	I l e
LA&nAmb	601				: N		%
HsMRr wAmb	24O2	43: 4U73	4363U1-	4N- 7U4	43: : U21	OU32	I l e
HsRMsRr w	77O2	263U-	26: U33	23- U62	23OU44	1UO3	I l e
HnPyeor Rmb	: 401	1UO3	1UON	1UO-	1UO6	2U42	I l e
HnPyeor Rmb	: 701	OU- O	OU26	OU26	OU23	NU74	I l e
HnPyeor Rmb	: 601	OU-	OU-	OU- 2	OU-	2UOO	I l e
HnPyeor Rmb	: 301	OU24	OU24	OU2-	OU24	- U2:	I l e
HnPyeor Rmb	: N01	OU2-	OU2N	OU27	OU27	: U17	I l e
ur noyb Amb	17O01						ql w
ur noyb Amb	17O02						ql w
uAqfr P	6OO2	- 2U1	- 2U37	- - U- O	- 2U:	OUN6	I l e
8hnwl hnSmw	- 1O2	: : U1	11: U26	114U44	111U2O	: UO6	I l e
8n&swwAmb	- : O2	247U66	246U67	244U46	247U7:	OU47	I l e
EhnoAmb	1O- 01				1O7		%
EhnoAmb	1O- O2				1O-		%
pqsRoAmb	4701				1O3		%
pqsRoAmb	47O2				: 6		%
pr P RAmb	N201	OOU6-	OOU22	OOU4O	OOU42		I l e
pr P RAmb	33O2	2U- 6	2UN:	OOU- N	1UN2	1O4U7-	I l e
pr P RAmb	3NO2	OU76	OUN2	OU1:	OU72	6OU17	I l e
pAAqnR	2N01	66UN4	6- U- N	64U47	67UO	2U- 6	I l e
pAgr S	1O301	OUO2	OUO-	OUO-	OUO-	2- UN:	I l e
pAgr S	1O: 01	OUO-	OUO2	OUO2	OUO-	3U- 3	I l e
pnoAmb	2- O2	72U- :	46U46	47UNN	4NU44	NU17	I l e
pSSnR&Amb	N601	1OU4:	1OUOO	: U77	1OUO1	4U3-	I l e
pSSnR&Amb	NN01	: UN7	: U61	: U33	: U34	1U2N	I l e
pmPVnS	- 401	O23N: U42	0- 16- U27	0- 1NNU7:	0- O43UO		I l e
i r SeAmb	17: 01				1O3		%
i r SeAmb	17: O2				1O4		%
i hsPAmb	2O- 01	OUO7	OUO7	OUO6	OUO7	7UN4	I l e
i hsPAmb	2O701	OUO4	OUO7	OUO7	OUO7	17UN4	I l e
i AR	11N01	OUO4	OUOO	OUO7	OUO-	N6U73	I l e
i A&sRAmb	4301	144UO4	141U3N	146U- 2	144UO7	1U7N	I l e
CSsRAmb	2- N01	OU23	OU23	OU27	OU26	4U2O	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8N
v PR&psb l P D J	Ha9c : 2L	t ARn&nR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ub

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
9sRsoAmb	71O2	2- UN2	2- U-6	2- U3:	2- U66	1UO2	l l e
Y&&SeAmb	13201						ql w
Y&&SeAmb	13202						ql w
Y&&SeAmb	13601						ql w
Y&&SeAmb	13602						ql w
Y&&SAmb	N: 01				1O6		%
Y&&SAmb	N: 02				1O1		%
ZARq	6602	24U34	2- U72	2- U36	24UO1	2U3O	l l e
ZASqnRAmb	: O01	O147	O14:	O143	O143	4U24	l l e
ZASqnRAmb	: 101	O146	O146	O142	O147	4U1	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9169l:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	4: h: 8F51	h10- 4F. h	h214: F20	h116SF04	2F68	l l b
cn&Amon%	12171	1: F88	18F4h	1: Fhh	1: F- S	- F88	l l b
crsenAq	0h72	h2F0h	hhF11	h- F0S	h- F8h	2F21	l l b
BarAum	1- h71	6S1F2h	hhhF00	h: 8F4h	h8hF16	4F- 6	l l b
BarAum	1- 071	6ShF6:	h60Fh2	6S4F66	h: 2F62	- F60	l l b
Ber%lAum	: 71	11FSS	1SF- 8	1SF62	1SF60	2F. 6	l l b
BAsmu&E	2S: 71				1S8		G
BAsmu&E	2S: 72				1S-		G
BromAne	8171						ql s
RaOmAum	1S871	8FS4	0F88	: F40	8F46	1SF- 6	l l b
RaOmAum	1S671	4F24	hF42	4F28	4F6h	14F48	l l b
RaOmAum	11171	1SF24	: F20	1SF2S	: F. S	hFhh	l l b
RalqAum	4- 71	42- - F24	4SS- FS1	41- 2F0S	4122F. 8	2F8S	l l b
RalqAum	4471	4h1: F4-	410SF- h	444: FS4	4- 0: F61	4F22	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	182F68	1: 4F21	18: F8-	188F. 1	- FS8	l l b
Robal&	h: 72	146F. 6	1hhF2-	1hSF- S	1hSF8-	2F06	l l b
Rol l er	6- 72	1h6F. 4	164F1h	1h: F4:	16SF1:	2F28	l l b
t %sl rosAum	1h671						ql s
t %sl rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				11-		G
KolmAum	16h72				1S-		G
DnOAum	11h71				11S		G
DnOAum	11h72				: 8		G
Don	h472	0111SF- 8	02010F. 4	01S6: FS1	016- 2F44	1F- 1	l l b
Don	h672	684: hF12	02: 48F1-	0SS02FS0	0ShShF11	- F2S	l l b
Don	h072	0S100F- 4	0- - : : F- 1	02: 14F2-	0216- F6-	2F41	l l b
kr%l &on	8- 71						ql s
LeaO	2S671	12FS0	11F88	11F08	11F. 1	1F22	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9169I:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	11Fh8	11F- 6	11FhS	11F48	SF. 8	I I b
LeaO	2S871	11F80	11F4h	11Fh6	11F6-	1F86	I I b
LAEAum	671				1S4		G
MagnesAum	2472	2- 04: F4h	240- 8Fh6	24- 12F- 6	24266F0:	2FS4	I I b
Manganese	hh72	1- hSF61	141- Fh:	1- 08F. 1	1- 81FS4	2F28	I I b
MolbOenum	: 471	hFhh	hFh2	hFh0	hFhh	SF4h	I I b
MolbOenum	: h71	1F6h	1F0h	1F68	1F6:	2F. 8	I I b
MolbOenum	: 671	2F1h	2F18	2F11	2F1h	1F6h	I I b
MolbOenum	: 071	1F. 0	1F0h	1F0:	1F84	6F20	I I b
MolbOenum	: 871	1F06	1F0-	1F60	1F02	2F46	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	26hF26	284F18	202F. :	204F1h	- F40	I I b
PEosI Eorus	- 172	826F88	8S4FSS	8h8F68	82: F8h	- F- 1	I I b
PoassAum	- : 72	1114F1:	11- 0F. 1	1141F4-	11- 1F18	1F- 1	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4h71				11h		G
pqanOAum	4h72				: 0		G
pelenAum	8271	18F88	18F2-	2SF40	1: F1:	6FS2	I I b
pelenAum	0072	- 4F61	- 8FS1	- 1F60	- 4F06	: F1-	I I b
pelenAum	0872	2- FS-	2hFS-	2SF82	22F. 6	: F18	I I b
pAAqon	2871	- S2F- 2	200F1:	28: F0h	28: F06	4F- 4	I I b
pAver	1S071	8F41	0F. 1	8F- 0	8F2-	- F41	I I b
pAver	1S: 71	8F42	8FSh	8F4h	8F- 1	2F0S	I I b
poOAum	2- 72	2S8F. S	221F81	21: F86	216F86	- F21	I I b
p&onA&um	8671	4hF- 2	4- FS2	44F81	44F- 8	2F02	I I b
p&onA&um	8871	44F81	41F02	4- F04	4- F4-	- F61	I I b
pulVur	- 471	7- 62: F8:	741- hF64	7- 8- 4F6:	7- 866F04		I I b
i erbAum	1h: 71				11-		G
i erbAum	1h: 72				1S-		G
i EallAum	2S- 71	: FSS	8F6:	8F. S	8F80	1F81	I I b
i EallAum	2Sh71	: FS6	8F08	: F1h	: FSS	2F14	I I b
i An	11871	SF- 4	SF26	SF- 6	SF- 2	1hF4h	I I b
i A&anAum	4071	0S1F1:	6h: F84	68hF. 4	682F- -	- FS6	I I b
UranAum	2- 871	1F- S	1F2h	1F20	1F20	2FS-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9169 1:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	22: F22	24SF- S	2- 6F: 4	2- hF4:	2F41	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				112		G
Y&&Aum	8: 72				: :		G
ZAnq	6672	221F01	2- SF: :	22hF46	226FS6	2FS0	I I b
ZAqonAum	: S71	2F4-	2F1-	2F28	2F28	6F44	I I b
ZAqonAum	: 171	2F26	2F10	2F40	2F- S	6F00	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPP:u sb r :J	1- 1qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	7242UN6	4949US7	7- 9- U 1	7197US0	4U 7	DDe
q5Tb n5%	121 1	SU9S	SU00	SUNN	SUN7	0U9S	DDe
qpwr 5cd	07 2	NU12	0U64	NU77	NU1S	7U64	DDe
Bspcmb	1- 7 1	192USS	167U14	162U00	10- U S	9U 0	DDe
Bspcmb	1- 0 1	19- U1-	166U74	164U91	104UN6	9USS6	DDe
Br p%PPmb	9 1	1U62	1U72	1U44	1U7-	7UN7	DDe
Bcvb mTE	2S9 1				1S4		G
Bcvb mTE	2S9 2				1S0		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUNS	SU6S	SU-	SU7N	4SU77	DDe
v sob cmb	1S6 1	1U9S	2USS1	- U4-	2U47		DDe
v sob cmb	111 1	SU4-	SU29	SU29	SU4	2- U94	DDe
v sPdcmb	4- 1	2N7NSUS0	247- 6U6	2- 477U47	2772- U96	1SU7N	DDe
v sPdcmb	44 1	2917- USS9	261S7U16	247NSUNN	2661- USS7	NU07	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	17U2S	14U6	17U7N	17USS7	4U1-	DDe
v nesPT	79 2	4U S	4USS9	4U6	4U27	- U29	DDe
v nDDr p	6- 2	1NU62	10U7	1NU96	1NU1	4U64	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				1S7		G
h nPb cmb	167 2				1SN		G
t5ocmb	117 1				1S2		G
t5ocmb	117 2				1S-		G
tpn5	74 2	179S- U7	17S42U12	1621NU77	17021U20	- UN0	DDe
tpn5	76 2	1606- U9N	16112U6-	104SNU10	16061U79	- UN6	DDe
tpn5	70 2	17740U0S	14N62U1	1641NU6S	176S9U7-	7USS	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	- - U6S	2NUS7	2NU74	- SUS6	1SU2-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPP:u sb r :J	1- 1qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	- 1U91	27UNS	26U44	2NUS7	11U96	DDe
Lr so	2SN 1	- 2U04	20U2S	20UN2	29U26	1SU-0	DDe
LdEomb	6 1				96		G
y sM5r womb	24 2	0414U71	0S- 0U6-	040- U40	0- SNU74	- U24	DDe
y s5Ms5r wr	77 2	760U6N	7- 6U21	7NSU6S	761U49	4US0	DDe
y nP%eor 5mb	94 1	NU20	0U19	0U20	0U7N	0U90	DDe
y nP%eor 5mb	97 1	2U12	1UN0	1U01	1U9S	1SUNN	DDe
y nP%eor 5mb	96 1	2UNS	2U40	2U7S	2U79	6U90	DDe
y nP%eor 5mb	90 1	2U-1	1UN-	1U94	2US-	12U10	DDe
y nP%eor 5mb	9N 1	2U21	1U91	1U0N	1U90	11U1-	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	NU62	NU1N	9US-	NU61	4U96	DDe
8 EnwDEnpmw	- 1 2	610U26	760U14	6N7U20	62- U22	9U71	DDe
8 nTswwomb	- 9 2	214SU7N	2S66USN	22- 7USS	2140U22	- U94	DDe
CEnoomb	1S- 1				1S2		G
CEnoomb	1S- 2				1S0		G
I ds5oomb	47 1				1S1		G
I ds5oomb	47 2				99		G
I r P 5omb	N2 1	SU70	SU67	SUNS	SU60	10U47	DDe
I r P 5omb	00 2	4- U12	24U60	- 6U72	- 4U00	26UN9	DDe
I r P 5omb	0N 2	NUS9	6U4S	NUS9	0U7-	1- US1	DDe
I dPdn5	2N 1	144U96	12SUN9	11NU19	12NUS1	11U71	DDe
I dPgr p	1S0 1	SU14	SU17	SU14	SU14	1US0	DDe
I dPgr p	1S9 1	SU14	SU10	SU16	SU17	NU9N	DDe
I nooomb	2- 2	162U67	177UN7	10- U6S	164US4	7U46	DDe
I Tpn5Tomb	N6 1	7- UNN	46U94	44U-9	4NU4S	1SU17	DDe
I Tpn5Tomb	NN 1	72U6S	46US1	44U-4	40U67	9U16	DDe
I mPmp	- 4 1	2N- UNS	1- 29UNN	1- 6- U-0	992U-7		DDe
Ar peomb	179 1				1S7		G
Ar peomb	179 2				1S9		G
AEs PPomb	2S- 1	SU27	SU22	SU2-	SU2-	6U9-	DDe
AEs PPomb	2S7 1	SU22	SU2S	SU2S	SU21	7U00	DDe
Ad5	11N 1	6U19	7U24	7U41	7U61	NU90	DDe
AdS5omb	40 1	47- US7	- 9- U91	- 06UN4	4S0U9-	9UNS	DDe
Rps5omb	2- N 1	2U14	1UN0	1UN4	1U97	NU7S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPr:u sb r :J	1- 1q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	10U47	16UNS	1NU41	10U77	4U6S	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				1S0		G
YTTpomb	N9 2				111		G
Zd5d	66 2	1- 0U94	12NU71	141U06	1- 6USS0	7US1	DDe
Zqpdn5omb	9S 1	- U0S	- U24	- U10	- U 0	NU6S	DDe
Zqpdn5omb	91 1	- U6S	- U2-	- U22	- U 7	6U49	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdP:u sb r :J	1- 2qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	7SS0U1S	7S41U00	7S04U-2	7S41US6	SU60	DDe
q5Tb n5%	121 1	SU0-	SUNS	SU00	SU00	4U92	DDe
qpwr 5cd	07 2	0U99	0U9N	NU40	NU17	- U7S	DDe
Bspcmb	1- 7 1	17NU69	176U9N	177UN4	170U10	SU91	DDe
Bspcmb	1- 0 1	162U10	179U07	17NU40	16SU1-	1U10	DDe
Br p%PPmb	9 1	1U42	1U47	1U-6	1U41	- U N	DDe
Bcwb mTE	2S9 1				1S9		G
Bcwb mTE	2S9 2				1SN		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SU9-	SU02	SU90	SUN0	17U47	DDe
v sob cmb	1S6 1	1U99	- UN7	2U94	2U9-		DDe
v sob cmb	111 1	SU-7	SU-2	SU29	SU-2	NU79	DDe
v sPdcmb	4- 1	2- 221U71	22N46U00	22044U1S	229- 0U46	1U1S	DDe
v sPdcmb	44 1	2- N06U94	24119US7	2- 417U07	2- NS- U91	1U7S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	14UN4	14U94	14U77	14U0N	1U-7	DDe
v nesPT	79 2	4U19	4U1N	4U1-	4U10	SUN6	DDe
v nDDr p	6- 2	10U62	10UN2	10U02	10U02	SU70	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				112		G
h nPb cmb	167 2				1S9		G
t5ocmb	117 1				111		G
t5ocmb	117 2				1S-		G
tpn5	74 2	17- 2SU60	17- 6SU-1	17700U01	17419U70	SU9S	DDe
tpn5	76 2	16266U02	16- 07U9-	16626U-6	1642- USS	1U12	DDe
tpn5	70 2	1710SU22	171S2U0S	17471U9S	17241U6S	1U22	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	20U92	20U-9	20U14	20U4N	1U46	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdPP:u sb r :J	1- 2qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	27U94	27U74	27U6N	27U02	SU09	DDe
Lr so	2SN 1	20U-S	26U69	26U06	26U92	1U24	DDe
LdTEomb	6 1				1S1		G
y sM5r womb	24 2	010- U9S	011SU-N	017SU17	0144UN1	SU47	DDe
y s5Ms5r wr	77 2	771US1	771U66	76- U-	777U-	1U27	DDe
y nP%eor 5mb	94 1	0U17	6U94	0US7	0US7	1U77	DDe
y nP%eor 5mb	97 1	1UN2	1UN7	1U69	1U09	4UNS	DDe
y nP%eor 5mb	96 1	2U-4	2U4S	2U-	2U-6	1U71	DDe
y nP%eor 5mb	90 1	1UN6	1U00	1U6N	1U00	7U12	DDe
y nP%eor 5mb	9N 1	1UN0	1UNS	1U06	1UN1	- US7	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	NU47	NU7N	NU2N	NU44	1U06	DDe
8 EnwDEnpmw	- 1 2	6S9US-	612U44	700U71	799U66	- U21	DDe
8 nTswwomb	- 9 2	211- U-6	2SN- U24	21SSU-4	2S9NU9N	SU02	DDe
CEnoomb	1S- 1				1S9		G
CEnoomb	1S- 2				1SN		G
I ds5oomb	47 1				111		G
I ds5oomb	47 2				1SS		G
I r P 5omb	N2 1	SU11	SU2S	SU2N	SU2S	4- U76	DDe
I r P 5omb	00 2	41U2S	2NU99	- 6U7-	- 7U70	10U-	DDe
I r P 5omb	0N 2	7UNS	4U47	6U66	7U64	19U69	DDe
I dPdn5	2N 1	11- U97	114U-6	11- U02	114US1	SU29	DDe
I dPgr p	1S0 1	SU14	SU12	SU1-	SU1-	NU16	DDe
I dPgr p	1S9 1	SU17	SU11	SU12	SU1-	17U6-	DDe
I nomb	2- 2	171U-9	17SU71	170US9	17- USS	2U-4	DDe
I Tpm5Tomb	N6 1	47UN2	42U16	42U07	4- U7N	4U7S	DDe
I Tpm5Tomb	NN 1	44U2-	4- U1-	42U14	4- U16	2U41	DDe
I mPmp	- 4 1	14N2U62	169SUNN	1644U0-	16S6USN		DDe
Ar pemb	179 1				112		G
Ar pemb	179 2				1SN		G
AEsPPmb	2S- 1	SU21	SU1N	SU2S	SU2S	6U1S	DDe
AEsPPmb	2S7 1	SU22	SU1N	SU2S	SU2S	9U01	DDe
Ad5	11N 1	7U2S	4UNS	4UN9	4U96	4U1N	DDe
AdS5omb	40 1	- 01U16	- 0SU22	- 79U9N	- 60U12	1U69	DDe
Rps5omb	2- N 1	1UN4	1UN1	1UNS	1UN2	1US2	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdPr:u sb r :J	1- 2q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	10U-2	16U00	10U62	10U2-	2U7S	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				117		G
YTTpomb	N9 2				11-		G
Zd5d	66 2	1- 2U9S	1- 1U74	1- - U-N	1- 2U61	SU02	DDe
Zqpdn5omb	9S 1	- USS9	- USSN	2U92	- USS-	- U21	DDe
Zqpdn5omb	91 1	- U-4	- U1N	- U12	- U22	- U49	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5-40OXO4L70	DRw&Smb Rr &usb r J	8N
v PA R&psb l P D J	H9O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2-XO3X12 1: J20J11	t s&s. AP usb r J	1--cEF. Uo

8ssSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23X2	1OO3U4:	11NOUOO	1O-3U1:	1O34UO	NU0N	l l e
c R&b nRy	121X1	OU13	OU16	OU1N	OU13	0U02	l l e
c Sw r RAq	30X2	1U32	2U1O	1U6N	1UN-	12U4N	l l e
Bs SAmb	1-0X1	--U62	-1UO-	-1UN-	-2U16	4U11	l l e
Bs SAmb	1-3X1	-1U-	-1U43	-2U:	-1U3-	1UN-	l l e
Br Sy PAmb	:X1	OU2	OU2N	OU2	OU1	3U22	l l e
BAb m&a	2O.X1				1ON		%
BAb m&a	2O.X2				1O1		%
BSmb ARr	N1X1						ql w
v sob Amb	1ONX1	OU1	OU10	OUO1	OU16	:4U2	l l e
v sob Amb	1O6X1	X1U60	X-U06	X2U02	X2U0N		l l e
v sob Amb	111X1	OUO-	OUO2	OUON	OUO4	6:U1O	l l e
v sRqAmb	4-X1	4021U40	403:U4	4633U00	40:2UN	1U32	l l e
v sRqAmb	44X1	4N-4U63	4N42U1	4NN-UO1	4NO-U-	OU04	l l e
v sSenR	12X1						ql w
v sSenR	12X2						ql w
v hPmSRr	-0X1						ql w
v hPmSRr	-0X2						ql w
v hSmb Amb	02X2	2U4	-U60	-U11	-U2-	11U42	l l e
v nesR&	0:X2	OU1	OU:	OUNO	OUO	1OU64	l l e
v nI l r S	6-X2	-U36	4U4:	-U32	-U:	1OU0	l l e
t ywl SnwAmb	106X1						ql w
t ywl SnwAmb	106X2						ql w
F SeAmb	164X1						ql w
F SeAmb	164X2						ql w
Gson PARAmb	16OX1						ql w
Gson PARAmb	16OX2						ql w
9 nP Amb	160X1				1O.		%
9 nP Amb	160X2				1O2		%
DRo Amb	110X1				1O.		%
DRo Amb	110X2				:6		%
DSmR	04X2	-O6-U04	-6ONU:	-130U3:	-2N2U03	NU36	l l e
DSmR	06X2	--43U62	-N36U60	--N4U26	-0-6U1N	NU0	l l e
DSmR	03X2	-O3-U63	-0:3UN-	-14:U0:	-23-U3O	NU60	l l e
KSyl &aR	N-X1						ql w
Lr so	2O6X1	0U40	0U0:	0U01	0U02	1U23	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
v PA R&psb l P D J	H9O. NOL	t ARm&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Uo

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
Lr so	2O3X1	0U10	0U12	0U1-	0U1-	OU26	l l e
Lr so	2ONX1	0U-O	0U4O	0U-N	0U-6	OU-6	l l e
LA&mAmb	6X1				: 3		%
HsMRr wAmb	24X2	14O3U00	16NOU30	14NOUN1	102- UO4	: U2N	l l e
HsRMsRr w	00X2	11OU22	123U03	112U6O	116UNO	NUO0	l l e
HnPyeor Rmb	: 4X1	1U2N	1U42	1U42	1U-3	0U34	l l e
HnPyeor Rmb	: 0X1	OU46	OU-1	OU-N	OU- :	1: U13	l l e
HnPyeor Rmb	: 6X1	OU40	OU46	OU42	OU44	4U-O	l l e
HnPyeor Rmb	: 3X1	OU41	OU-3	OU-	OU-3	1OUN:	l l e
HnPyeor Rmb	: NX1	OU41	OU-O	OU-	OU-0	16U14	l l e
ur noyb Amb	10OX1						ql w
ur noyb Amb	10OX2						ql w
uAqkr P	6OX2	1U3N	1U-6	1U66	1UNO	NU43	l l e
8hnwl hnSmw	- 1X2	31U- :	110U21	64U3-	N- U33	- 2U34	l l e
8n&swwAmb	- : X2	426U14	4: 2U22	446U3-	400UO-	3U4-	l l e
EhnoAmb	1O- X1				1O.		%
EhnoAmb	1O- X2				1O1		%
pqsRoAmb	40X1				1ON		%
pqsRoAmb	40X2				: 4		%
pr P RAmb	N2X1	XOU1N	OUO-	OUOO	XOUOO		l l e
pr P RAmb	33X2	0U1-	NU- :	4U11	0UNN	- NUO4	l l e
pr P RAmb	3NX2	1U20	2U4-	1U01	1U3-	- 0U-4	l l e
pAAqnR	2NX1	2- U- :	2- U22	22UN2	2- U14	1U26	l l e
pAgr S	1O3X1	OUO4	OUO4	OUO4	OUO4	1U11	l l e
pAgr S	1O. X1	OUO4	OUO-	OUO-	OUO-	0U-2	l l e
pnoAmb	2- X2	21U03	41UN0	24UN6	2: U4-	- 6U- :	l l e
pSmR&Amb	N6X1	NUN0	NU60	NU34	NU30	1U16	l l e
pSmR&Amb	NNX1	: UO3	NU3N	NUN-	NUN:	1U3N	l l e
pmPmS	- 4X1	X1- 26U21	X1- 16U30	X12- NU2N	X12: - U30		l l e
i r SeAmb	10: X1				1O.		%
i r SeAmb	10: X2				1O1		%
i hsPAmb	2O- X1	OUOO	OUO3	OUO3	OUO6	10U04	l l e
i hsPAmb	2OOX1	OUOO	OUOO	OUOO	OUOO	0U-4	l l e
i AR	11NX1	OUNN	OU-O	1UO2	OU-	NU4-	l l e
i A&sRAmb	43X1	32UN0	3- U3:	3- U22	3- U2N	OU60	l l e
CSsRAmb	2- NX1	OU-0	OU-0	OU-6	OU-0	OUN1	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
v PR&psb l P D J	H9O. NOL	t ARn&nR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - c EF. Uo

8sSsb r &S	Hsww	v nRErl 1	v nRErl 2	v nRErl -	cgMUv nRqU	v nRqEpt	CRA&w
VsRsoAmb	01X2	- U06	4U0-	- U46	- U6N	NU20	l l e
Y&&SeAmb	132X1						ql w
Y&&SeAmb	132X2						ql w
Y&&SeAmb	136X1						ql w
Y&&SeAmb	136X2						ql w
Y&&SAmb	N: X1				1O:		%
Y&&SAmb	N: X2				: N		%
ZARq	66X2	26U3-	- OU6-	26U6:	2NUO2	NUON	l l e
ZASqnRAmb	: OX1	OU62	OU64	OU60	OU64	2U0:	l l e
ZASqnRAmb	: 1X1	OU00	OU61	OU0N	OU0N	0U14	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S6	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFaSl	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19.J2aJ11	&wTwFd8 :u wb r :J	1- 4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	49a- U64	7S67U72	7249U1S	7S99U42	2U60	DDe
q5Tb n5%	121 1	2SU6a	1aU2a	27US-	21U-	16US4	DDe
qpl r 5cd	07 2	17U76	17U2	16U06	17Uaa	4Ua7	DDe
Bwpcmb	1- 7 1	706U62	7SaUS9	0S1U6a	797U46	16U4a	DDe
Bwpcmb	1- 0 1	791U1a	711UaS	0S6Ua-	6S- U20	16U26	DDe
Br p%8cmb	9 1	12U2	11U17	14U4-	12U6-	1- U17	DDe
Bdb mTE	2S9 1				1S7		G
Bdb mTE	2S9 2				1S0		G
Bpmb d5r	a1 1						dDl
v wob cmb	1Sa 1	9US9	aU04	11UaS	9Uaa	16U96	DDe
v wob cmb	1S6 1	0U7S	6U1S	0U9S	0U16	1- U22	DDe
v wob cmb	111 1	1SU96	9U7-	1- U9	11U29	10U20	DDe
v w8dcmb	4- 1	2- 4a- U0-	2S696U4	2916- U07	24440U94	10U67	DDe
v w8dcmb	44 1	246a1U2-	2S96aUa1	- S11- U64	27274U76	1aU21	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	76U4-	76Ua7	79U07	70U6a	- U14	DDe
v new8T	79 2	116US1	110U62	121U11	11aU27	2U21	DDe
v nDDr p	6- 2	66U-	66U66	69U6a	60U76	2U0-	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				1S6		G
h n8b cmb	167 2				1S6		G
t5ocmb	117 1				1S4		G
t5ocmb	117 2				1S1		G
tpn5	74 2	1- a97U10	1- 969Ua6	1447SU12	141S7US7	2U14	DDe
tpn5	76 2	14a46US-	1491aU2a	17- 96U29	17S7- U7-	1U99	DDe
tpn5	70 2	1- a11US9	1- a26USa	14- 6SUS4	1- 999US0	2U2-	DDe
Kp%DTn5	a- 1						dDl
Lr wo	2S6 1	- 1U64	2aU71	- 9U1S	- - USa	16U44	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 47S S6	t5l Tpmb 5r Tuwb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFaSl	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J2aJ11	&wTwFd8 :uwb r :J	1- 4qC. Fub

NwpwbrTrp	ywll	vn5CrD1	vn5CrD2	vn5CrD-	qgMJvn5dU	vn5dCl &	R5dT
Lrwo	2S0 1	29U9a	26U92	- 6U61	- 1U10	17Ua9	DDe
Lrwo	2Sa 1	- 1US2	20U6S	- 0Ua7	- 2U16	16U2-	DDe
LdTEmb	6 1				96		G
ywW5rlmb	24 2	0SSaU6S	0S0- U9a	0276U0-	011- U1S	1Ua1	DDe
yw5MW5rlr	77 2	6S4U00	614U60	6- 6U60	61aU0S	2U64	DDe
yn8%eor 5mb	94 1	0U12	7U01	aU-7	0US6	1aU04	DDe
yn8%eor 5mb	97 1	1U74	1U20	1U0a	1U7-	16U64	DDe
yn8%eor 5mb	96 1	2US-	1U09	2U7-	2U11	1aUS1	DDe
yn8%eor 5mb	90 1	1U74	1U27	1U09	1U7-	10U71	DDe
yn8%eor 5mb	9a 1	1U49	1U-1	1Uaa	1U76	1aU7a	DDe
urno%bmb	17S 1						dDl
urno%bmb	17S 2						dDl
udkr 8	6S 2	127U16	126U6-	1- SU-1	120U-0	2USa	DDe
NEnl DEnpm	- 1 2	6a4US2	640U96	691U7-	604U71	- U47	DDe
NnTwl mb	- 9 2	190- U77	1909U-6	2Sa1Ua1	2S11U70	- US-	DDe
CEnomb	1S- 1				1S2		G
CEnomb	1S- 2				1S0		G
l dw5omb	47 1				1S4		G
l dw5omb	47 2				99		G
l r 8 5mb	a2 1	2SU10	10U2a	24U77	2SU66	10U01	DDe
l r 8 5mb	00 2	4- Ua6	7- Uaa	62U79	7- U44	10U7-	DDe
l r 8 5mb	0a 2	21U01	22U27	20U27	2- U04	12Ua6	DDe
l 8dn5	2a 1	140U00	1- 2U77	19SU96	170US9	19U29	DDe
l 8gr p	1S0 1	9U-1	aUSS	1SUaS	9U-0	14U94	DDe
l 8gr p	1S9 1	9U2-	0U92	1SUa2	9U-2	17U61	DDe
l nomb	2- 2	2S4U4a	211Ua2	211U-S	2S9U2S	1U96	DDe
l Tpn5Tmb	a6 1	4- U40	- 6U92	72U92	44U4-	1aU11	DDe
l Tpn5Tmb	aa 1	4- U46	- 6U97	72U17	44U19	10U26	DDe
l m8mp	- 4 1	aa1US-	19- 2U-S	1496Ua0	4- aUa2		DDe
Arpemb	179 1				1S6		G
Arpemb	179 2				1S7		G
AEw8mb	2S- 1	9U21	aU2-	11U4a	9U64	10U-S	DDe
AEw8mb	2S7 1	9U-	aU26	11U2a	9U62	17Ua0	DDe
Ad5	11a 1	2U2-	1Ua6	2U96	2U-7	2- Ua9	DDe
ATw5mb	40 1	- 4- U29	299U-	426U17	- 76U27	1aUSa	DDe
Rpw5mb	2- a 1	1U0-	1U79	2U1S	1UaS	14U77	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S6	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFaSl	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :q dOmpr o:J	2S2- S0 12:19.J2aJ11	&wTwFd8 :u wb r :J	1- 4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	1- SU6	1- 1ua9	1- 4U76	1- 2U20	1U61	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	a9 1				1S9		G
YTTpcmb	a9 2				1S9		G
Zc5d	66 2	24SUSa	24aU4a	277U27	240U9-	- USS0	DDe
Zcpdn5cmb	9S 1	- U44	2U6a	- U90	- U0	19U2S	DDe
Zcpdn5cmb	91 1	- U0-	2U67	- Ua1	- U4S	19USS9	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:cqduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	1- 026U21	1- 060U6-	1- 011US-	1- 0- 4U76	SU21	I I b
c n&mon%	121 1	SU04	SU08	1U1-	SU37	24U22	I I b
c rsenAq	05 2	26U-5	26U27	26U30	26U5S	1U2S	I I b
BarAum	1- 5 1	- 28U40	- 66U16	5- SUS1	4S8U21	26U25	I I b
BarAum	1- 0 1	- 24U45	- 6- U50	5- 0U-S	4S8U44	20U04	I I b
Ber%lAum	7 1	1U40	1U65	2U2-	1U08	22U-1	I I b
BAsmu&E	2S7 1				11S		G
BAsmu&E	2S7 2				1S7		G
BromAne	81 1						ql s
v aOmAum	1S8 1	1U42	1U0-	2U4-	1U36	20U0-	I I b
v aOmAum	1S6 1	2U-	1US8	SU16	1US8		I I b
v aOmAum	111 1	1U-8	1U52	2U2-	1U01	26U36	I I b
v alqAum	4- 1	15708U-S	16048U-1	24676U5S	17141US4	25U22	I I b
v alqAum	44 1	16101U17	1084- U50	25741U74	17785U50	26U15	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	- 5 1						ql s
v ElorAne	- 5 2						ql s
v EromAum	52 2	22U00	22U72	22U0S	22U07	SU48	I I b
v obal&	57 2	16U76	16U08	16U4S	16U01	1U02	I I b
v ol I er	6- 2	07U3S	81U42	82U-6	81U17	1U57	I I b
t %sI rosAum	156 1						ql s
t %sI rosAum	156 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	165 1				1S8		G
h olmAum	165 2				1S7		G
DnOAum	115 1				1S0		G
DnOAum	115 2				1S-		G
Don	54 2	42517U2S	4268- U84	42077U54	42660U5-	SU--	I I b
Don	56 2	424S4U10	4- - 71U57	4284SU26	42808U60	1U15	I I b
Don	50 2	42847U00	42187U3-	4- 286U35	42005U48	1U27	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	02U42	08U27	117U35	7SU17	28U60	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	67U7	04U7	114U26	86U5	28U0	I I b
LeaO	2S8 1	02U41	06U5S	110U44	88U07	28U55	I I b
LA&EAum	6 1				1S1		G
y aMhesAum	24 2	6470U28	6610U1-	656- U0S	6557U0	SU72	I I b
y anManese	55 2	754U54	70- U87	76- U67	76- U80	1U5-	I I b
y ol%bOenum	74 1	1SU S	11U41	16U56	12U57	24U25	I I b
y ol%bOenum	75 1	1U05	1U70	2U82	2U18	25U71	I I b
y ol%bOenum	76 1	2U06	2U81	4U7	- U2	20U71	I I b
y ol%bOenum	70 1	1U7-	2U50	2U82	2U28	2SU88	I I b
y ol%bOenum	78 1	1U84	1U78	2U01	2U18	21U44	I I b
NeoO%mAum	15S 1						ql s
NeoO%mAum	15S 2						ql s
NAqkel	6S 2	- 2U12	- - U52	- - U4-	- 2U85	2U54	I I b
PEosI Eorus	- 1 2	- 14SU0-	- - 74U52	- - 55U50	- 276U61	4U14	I I b
Po&assAum	- 7 2	5S84U71	52- 6U18	5142U12	5154U4S	1U48	I I b
CEoOAum	1S- 1				1S5		G
CEoOAum	1S- 2				1S7		G
pqanOAum	45 1				1S8		G
pqanOAum	45 2				1S1		G
pelenAum	82 1	1U2S	1U51	2U54	1U58	26U8-	I I b
pelenAum	00 2	5SU51	- 4U87	- 4U54	- 7U78	22U82	I I b
pelenAum	08 2	4U76	6U5-	7U4	6U74	- 1U74	I I b
pAAqon	28 1	212U8	22- U2	- - 2U2S	255U70	25U88	I I b
pAger	1S0 1	SU4	SU8	SU5-	SU42	2- U56	I I b
pAger	1S7 1	SU6	SU7	SU50	SU44	25U80	I I b
poOAum	2- 2	166U20	101U77	100U88	102U55	- U0	I I b
p&ona&Aum	86 1	14- U7-	152U4S	224U5	10- U56	25U46	I I b
p&ona&Aum	88 1	147U24	161U81	2- 6U67	182U58	25U87	I I b
pulfur	- 4 1	1- 0SU52	14- 5U56	2568U51	08U86		I I b
i erbAum	157 1				1S0		G
i erbAum	157 2				1S0		G
i EallAum	2S- 1	SU S	SU1	SU46	SU6	25U44	I I b
i EallAum	2S5 1	SU1	SU S	SU45	SU5	24U17	I I b
i An	118 1	1U54	1U56	2U80	1U77	- 8U57	I I b
i A&anAum	40 1	1SSU81	1S6U72	155U5S	121U58	24U05	I I b
RranAum	2- 8 1	2U80	2U71	4U47	- U42	26U70	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	51 2	58U07	50U67	58U47	58U2	SU78	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				112		G
Y&&Aum	87 2				115		G
ZAnq	66 2	- S5U1-	- S- US7	- S0U66	- S5U27	SU05	I I b
ZAqonAum	7S 1	4U04	5U45	0U7-	6US4	20U68	I I b
ZAqonAum	71 1	4U78	5U42	0U08	6US6	24U86	I I b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. J1t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:179-49SJ	t s&s. Ae:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	14112F14	1- J17FJ6	1- 444F2-	1- 072FSJ	2F4-	l l b
cn&Amonh	121 1	SF04	SF6J	SFJS	SF04	JFS7	l l b
crwenAq	0%2	26F7%	20P%6	26P%0	20FS-	1FJ4	l l b
BsrAum	1- %1	- J%F6%	- 6JF41	- 00F6S	- 00F22	2F27	l l b
BsrAum	1- 0 1	- J4F61	- J2F22	- 0JF70	- J1F74	SF04	l l b
BerhPAum	7 1	1F60	1F66	1F60	1F60	SF- 6	l l b
BAumu&E	2S7 1				111		G
BAumu&E	2S7 2				1SJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	1FJ%	2F- 6	1F7S	2FS4	1- F7S	l l b
RsOmAum	1S6 1	2FS7	SF72	2P%%	SF46		l l b
RsOmAum	111 1	1F47	1F4J	1F- S	1F4-	0P%7	l l b
RsRqAum	4- 1	1J2- SFS7	10J07F16	1JS40F22	1JS%2F16	SF70	l l b
RsRqAum	44 1	17S%SF1-	1J476F0%	1J- 76P%S	1J640F07	1FJ7	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- %1						ql w
REPrAne	- %2						ql w
REromAum	%2 2	2- F61	2- F21	2- F14	2- F- 2	1FS7	l l b
RobsR&	%7 2	10FS0	16FJ7	16F24	16F0-	2F61	l l b
RolI er	6- 2	J2F- J	JSF- %	07P%	JSF0%	1FJ1	l l b
t hwI rowAum	1%6 1						ql w
t hwI rowAum	1%6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoPAum	16S 1						ql w
HsOoPAum	16S 2						ql w
y oPmAum	16%1				112		G
y oPmAum	16%2				1S0		G
DrOAum	11%1				11S		G
DrOAum	11%2				1S1		G
Don	%4 2	4- 261F4-	42J42P%S	4261JF6J	427S0P%	SF06	l l b
Don	%6 2	42772F4S	4- 121F22	416%4FJ%	42%J7F47	1F71	l l b
Don	%0 2	- 7746F0%	- 702%F- 6	- J467F- %	- 7- JSF4J	2FS2	l l b
KrhI &on	J- 1						ql w
LesO	2S6 1	J0FS1	J4F2J	J4F0%	J%F- %	1F01	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. J1t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179-49SJ	t s&s. Ae:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF:RonqF	Ronq5pt	Un&w
LesO	2S0 1	J- P%7	J2F76	JSF07	J2F44	1F0J	l l b
LesO	2SJ 1	J%F64	J- FSJ	J2F7-	J- FJ7	1FJ2	l l b
LAEAum	6 1				1S-		G
MsgnewAum	24 2	6016F6-	6664F20	6442F6J	66S0FJ6	2F2S	l l b
Msngsnewe	%%2	7J%FJS	704FJ-	742P%7	760F04	2F- 2	l l b
MoPbOenum	74 1	11F26	11F2J	11F64	11F- 7	1FJ%	l l b
MoPbOenum	7%1	1F6J	1F0J	1FJ-	1F06	4F1J	l l b
MoPbOenum	76 1	2FJ1	2F67	2FJ1	2F00	2F4J	l l b
MoPbOenum	70 1	1FJS	1F6%	1F0J	1F04	4FJ-	l l b
MoPbOenum	7J 1	1FJ2	1F0J	1F07	1FJS	SF76	l l b
NeoChmAum	1%S 1						ql w
NeoChmAum	1%S 2						ql w
NAqkeP	6S 2	- 4F22	- 2FJ1	- 1F77	- - FS1	- F42	l l b
8EowI Eoruw	- 1 2	- - 74P%2	- - 10F7%	- - - 0F6-	- - %SFS4	1F17	l l b
8o&swwAum	- 7 2	%271F11	%14JF67	%S4JF- %	%162F01	2F- 6	l l b
5EoOAum	1S- 1				1S7		G
5EoOAum	1S- 2				1SJ		G
pqsnOAum	4%1				11S		G
pqsnOAum	4%2				77		G
peRenAum	J2 1	1FS6	1F22	1F1S	1F12	0F21	l l b
peRenAum	00 2	- 7F2J	- %F1S	- JF06	- 0F01	6FS4	l l b
peRenAum	0J 2	7F10	7FS4	11F64	7F7%	14F0-	l l b
pARqon	2J 1	242F66	242F- J	2- 7F72	241F6%	SF62	l l b
pARer	1S0 1	SF46	SF44	SF4S	SF44	0F- 6	l l b
pARer	1S7 1	SF4-	SF4%	SF41	SF4-	4F04	l l b
poOAum	2- 2	162P%	16SF07	1%6P%0	1%7F76	1F71	l l b
p&ona&Aum	J6 1	1%JP%6	161F6%	164FS1	161F4S	1F67	l l b
p&ona&Aum	JJ 1	167F07	10SF26	102F61	10SFJ7	SFJJ	l l b
pulPur	- 4 1	11SJFS0	142JF10	144SF02	1- 2%F6%		l l b
i erbAum	1%7 1				111		G
i erbAum	1%7 2				1S0		G
i EsPAum	2S- 1	SF- 2	SF- S	SF- 2	SF- 2	4F21	l l b
i EsPAum	2S%1	SF- 1	SF- S	SF2J	SF- S	%FS6	l l b
i An	11J 1	1F62	1F6-	1F01	1F66	- F12	l l b
i A&snAum	40 1	114FS%	111F46	112F4%	112F6%	1F16	l l b
UrsnAum	2- J 1	- F24	- F17	- F24	- F22	SFJJ	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. J1t	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-49SJ	t s&s. Re:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	%l 2	6SP%J	%7FSJ	%JFS0	%7F24	2F1-	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	J7 1				116		G
Y&&Aum	J7 2				112		G
ZAnq	66 2	- 1%F66	- S6P%l	- S1F-6	- S0FJ4	2F-%	l l b
ZAqonAum	7S 1	%F4J	%P%7	%F01	%F6S	2FSJ	l l b
ZAqonAum	71 1	%P%7	%F64	%F42	%P%%	2F1%	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMavEFoU	vEFo7DT	CFqP
dNer dFqer	23X2	-1J-U00	-222U64	-OJ4UmO	-14-Um1	2U6m	ttS
dFiqEFy	121X1	OU1-	OU14	OU13	OU1J	1-U04	ttS
dIPpFqp	3JX2	6U4O	6Um6	6U22	6U40	JU11	ttS
BlIqer	1-JX1	3OU02	3mUOO	30U2J	3JU36	6U61	ttS
BlIqer	1-3X1	31U40	30U61	30U00	33U0-	6U24	ttS
BplyNqer	0X1	OU-2	OU-6	OU-0	OU-6	0U4m	ttS
BqPreih	2O0X1				112		%
BqPreih	2O0X2				00		%
BlErdFp	m1X1						otP
vlRrqer	1OmX1	OU20	OU23	OU4-	OU-	26U-m	ttS
vlRrqer	1O6X1	X4U-4	X-UJO	X4U62	X4U1J		ttS
vlRrqer	111X1	OU2J	OU-1	OU-1	OU20	1-U1J	ttS
vlNqer	4-X1	-4-mU0m	-6J6U01	-3J0U42	-61mU14	4UJ4	ttS
vlNqer	44X1	-4-2U60	-6-2U3m	-3J1U6m	-6OJU32	4U43	ttS
vlISEF	12X1						otP
vlISEF	12X2						otP
vhNEldFp	-JX1						otP
vhNEldFp	-JX2						otP
vhIErqer	J2X2	JU-4	JU43	JU00	JU-O	-U61	ttS
vESINN	J0X2	-Um-	-U03	-U63	-Um2	-U0J	ttS
vEttpl	6-X2	1mUm4	10U10	1mU44	1mUm2	2U0O	ttS
TyPtIEPqer	1J6X1						otP
TyPtIEPqer	1J6X2						otP
ISqer	164X1						otP
ISqer	164X2						otP
GlRENqFqer	16OX1						otP
GlRENqFqer	16OX2						otP
9ENqer	16JX1				112		%
9ENqer	16JX2				1OO		%
&FRqer	11JX1				114		%
&FRqer	11JX2				0-		%
&EF	J4X2	0O3OU1m	0-44U12	mmJJU3J	0O0OU02	2U60	ttS
&EF	J6X2	06mmU06	000OUm-	0JOOU0O	0320U0O	2UJO	ttS
&EF	J3X2	0O30U0O	010JU-2	m3m3U62	0O2OU0J	2U-	ttS
KlytiEF	m-X1						otP
LplR	2O6X1	1JUJ6	13U41	13U00	16U00	3U43	ttS

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlr tNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiabl r pas	um
vNpFiaDlr tNpa&Taaa	H9O.m1L	TqNidqEFa l oiElas	J
TlipaAacq paloneqpRas	2O2-XO3X12a10s-3sO4	Tlil.qNpabl r pas	1-3d7 .UR

ul llr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMdv EFoU	vEFo7DT	CFqP
LplR	2O3X1	1JU10	16U-m	13U-J	16U-1	6U6-	ttS
LplR	2OmX1	1JUJ2	16Uu3	13U34	16U31	6U6m	ttS
Lqihqer	6X1				1OO		%
HlMFpPqer	24X2	1401U10	1J-0U44	1413U0-	14m2UuJ	4U1-	ttS
HlFMlFpPp	JJX2	221UOO	2-OU4m	22OU24	22-U01	2UJJ	ttS
HENYSRpFer	04X1	2U14	2U-m	2U-3	2U-O	JU36	ttS
HENYSRpFer	0JX1	OU-2	OU40	OU4O	OU4O	22U1-	ttS
HENYSRpFer	06X1	OUJ4	OU66	OU6-	OU61	1OU26	ttS
HENYSRpFer	03X1	OU41	OU42	OU41	OU41	1UOO	ttS
HENYSRpFer	0mX1	OU-J	OU4-	OU44	OU41	11UJ3	ttS
bpERyr qer	1JOX1						otP
bpERyr qer	1JOX2						otP
bqpkpN	6OX2	3U2m	3U06	3U46	3UJ3	4U64	ttS
uhEPthElePP	-1X2	3JJUO2	3O-U6m	J30U2-	630U61	1-U-6	ttS
uEilPPqer	-0X2	116mUJJ	1216UuO	11-0U16	1134Uu4	-U-4	ttS
7hERqer	1O-X1				112		%
7hERqer	1O-X2				0m		%
DolFRqer	4JX1				111		%
DolFRqer	4JX2				0O		%
DpNqFqer	m2X1	OU16	OU2-	XOU11	OUOO	10JU20	ttS
DpNqFqer	33X2	11U3m	3UOO	2OU63	1-U1J	J2U3J	ttS
DpNqFqer	3mX2	2U36	2U43	1U2O	2U1J	-mU64	ttS
DqNqEF	2mX1	4JUJ2	4mUJ-	JOU0J	4mU-4	JU62	ttS
DqNqpl	1O3X1	OUOm	OU1O	OUOm	OUOO	11UJO	ttS
DqNqpl	1OOX1	OUOO	OUOm	OU11	OUOO	1JU42	ttS
DERqer	2-X2	2muu3	-1U2-	23U-0	20U13	6U64	ttS
DilEFiqer	m6X1	-1U11	-4UOJ	-4U40	--U22	JUJ2	ttS
DilEFiqer	mmX1	-1UO6	--UOO	--Uu1	-2UO2	4UOO	ttS
DeNel	-4X1	X-10OU20	X23-mU04	X24m3U-	X2mOJUJ2		ttS
cplSqer	1J0X1				11-		%
cplSqer	1J0X2				06		%
chlNqer	2O-X1	OUOJ	OUO3	OUOO	OUO3	23Uu3	ttS
chlNqer	2OJX1	OUO3	OUOm	OUOm	OUOm	mUOO	ttS
cqF	11mX1	OU2m	OU-0	OU20	OU-2	10U1J	ttS
cqlFqer	43X1	2OU01	2-U-4	2-U62	22U62	6UJ0	ttS
CIlFqer	2-mX1	OUJ3	OU6-	OU63	OU62	3Uu6	ttS

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiabl r pas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacq paloneqpRas	2O2-XO3X12al0s-3sO4	Tlil.qNpabl r pas	1-3d7 .UR

ullr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMav EFoU	vEFo7DT	CFqP
VlFlRqer	J1X2	1-U3	1-U00	1-U43	1-U61	2U43	ttS
YiiplSqer	132X1						otP
YiiplSqer	132X2						otP
YiiplSqer	136X1						otP
YiiplSqer	136X2						otP
Yiilqer	m0X1				112		%
Yiilqer	m0X2				04		%
ZqFo	66X2	60Um6	32U43	63U03	60UmO	-Um8	ttS
ZqloEFqer	0OX1	1U0m	1U16	1U2O	1U14	JU-O	ttS
ZqloEFqer	01X1	OU0m	1U06	1U1-	1U06	6Um2	ttS

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	14627F78	14480F7h	14010F18	14611F0S	SF07	I I b
c n&Amon%	121 1	18FS-	26F82	22F41	22F42	17F61	I I b
c rsenAq	0h 2	- 4F02	- 4F4h	- 0F22	- hF46	4F- 2	I I b
BarAum	1- h 1	020F4-	1111F- 4	7S0F- 8	71hF- 8	2SF78	I I b
BarAum	1- 0 1	00- F4S	116- F81	767F- 6	768F86	2SF1h	I I b
Ber%lAum	7 1	11Fh7	16F24	12F82	1- Fhh	10F8S	I I b
BAsmu&E	2S7 1				77		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	7Fh8	1- F62	11F22	11F40	10F01	I I b
RaOmAum	1S6 1	hF40	1- F14	0F41	8F60	46FSS	I I b
RaOmAum	111 1	1SF84	16F62	1- F20	1- Fh8	21F- h	I I b
RalqAum	4- 1	16h00F8-	24407F0-	2S2h7F80	2S4- 7F14	17F- h	I I b
RalqAum	44 1	10210F81	2h1ShFS6	2S77- F8-	211ShFh0	18F67	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	66F1-	66F74	66FS8	66F- 8	SF0-	I I b
Robal&	h7 2	128F41	127FSS	1- SF80	127F4-	SF77	I I b
RoI I er	6- 2	128F- 2	1- SFS1	128F- h	128F87	SF0h	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				1SS		G
y olmAum	16h 2				1S0		G
DnOAum	11h 1				77		G
DnOAum	11h 2				77		G
Don	h4 2	4- 827F- 8	42h88F06	4- 4- 8F7h	4- 28hF0S	1F40	I I b
Don	h6 2	421h1F8h	424h6F62	4- SS8F- 1	42h- 8F7-	1FS2	I I b
Don	h0 2	4- S46F07	4- - h6F8S	4- 2S1FSS	4- 2S1Fh-	SF- 6	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	07F41	121Fh7	78F8S	77F7-	21F1-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
LeaO	2S0 1	06F8-	110F16	74F66	76F22	21FSS	I I b
LeaO	2S8 1	08F28	12SF02	7hF64	78F21	21F0-	I I b
LA&EAum	6 1				71		G
MagnesAum	24 2	66S0F1-	66S1FS-	6022F40	664- Fh4	1FS-	I I b
Manganese	hh 2	1S04F0h	1S0hFh6	1S06F88	1S0hF0-	SF1S	I I b
Mol%bOenum	74 1	7F78	14F82	12F1h	12F- 2	17F60	I I b
Mol%bOenum	7h 1	1Fhh	2F- 0	1F86	1F7-	21F2h	I I b
Mol%bOenum	76 1	2F47	- F6-	2F82	2F78	17F01	I I b
Mol%bOenum	70 1	1Fhh	2F- 1	1F7h	1F74	17F60	I I b
Mol%bOenum	78 1	1Fh-	2F44	1F72	1F76	2- F17	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	1h- F42	1h- F6S	1hhFS2	1h4FS1	SFh0	I I b
PEosI Eorus	- 1 2	- 1hSFh7	- - - 0F4-	- S88F0-	- 172F2h	4FS6	I I b
Po&assAum	- 7 2	h220F24	h28- F77	h- - SF0-	h28SF6h	SF78	I I b
5 EoOAum	1S- 1				70		G
5 EoOAum	1S- 2				1S4		G
pqanOAum	4h 1				77		G
pqanOAum	4h 2				77		G
pelenAum	82 1	17F02	28Fh-	22F01	2- F6h	18F74	I I b
pelenAum	00 2	0hF40	hSF- 2	hSF- 8	h8F02	24F67	I I b
pelenAum	08 2	28F10	28F1h	- SF68	27FSS	hFS1	I I b
pAAqon	28 1	211Fhh	- - 1FS8	204F- S	202F- 1	21F76	I I b
pAver	1S0 1	8FS2	12F22	7F87	1SFS4	2SF70	I I b
pAver	1S7 1	8F11	12F4S	1SF1h	1SF22	21FS1	I I b
poOAum	2- 2	2S6F60	217F40	214F62	21- Fh7	- FS2	I I b
p&on&Aum	86 1	140F2-	217F8h	107F- 4	182F14	17F78	I I b
p&on&Aum	88 1	1h- F77	227F- 6	188F84	17SF0-	17F08	I I b
pulfur	- 4 1	1870F61	1810F64	- 16F8h	1- 2F20		I I b
i erbAum	1h7 1				1SS		G
i erbAum	1h7 2				1Sh		G
i EallAum	2S- 1	8F1S	12F7S	1SF- 0	1SF46	22F74	I I b
i EallAum	2Sh 1	8F42	12F0h	1SFS7	1SF42	2SF70	I I b
i An	118 1	1F70	2F87	2F2h	2F- 0	17F7S	I I b
i A&anAum	40 1	1S7FS1	1h1F7-	12hF66	128F86	16F07	I I b
UranAum	2- 8 1	- FSh	4F08	- F72	- F72	22FS8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	10- F40	104F4-	102FSS	10- F- S	SF01	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				1S4		G
Y&&Aum	87 2				1S7		G
ZAnq	66 2	42hF16	4- 1Fh0	4- - F6S	4- SF11	1FS2	I I b
ZAqonAum	7S 1	hFS0	0F4h	6FS1	6F18	17F48	I I b
ZAqonAum	71 1	4F7S	0F- 4	6F2-	6F16	17FB6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:D :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PA R&psb I Pr:D :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Uo

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMJv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23X2	23N6U40	2N2- UO-	2N24U16	2N11U2-	OU36	I l e
c R&b nRy	121X1	OU16	OU1	OU1-	OU1	12U63	I l e
c Sw r RAq	3 X2	U44	UNO	U30	U31	4U1	I l e
Bs SAmb	1- X1	N1UN-	30UJ	36U -	30U24	- UJ	I l e
Bs SAmb	1- 3X1	N2UO-	33U2O	36U33	3NU63	- U31	I l e
Br SyPAmb	0X1	OUJ3	OUJ6	OUJ-	OUJ	6U6O	I l e
BAmb m&a	2OOX1				1O6		%
BAmb m&a	2OOX2				1O6		%
BSmb ARr	N1X1						ql w
v sob Amb	1ONX1	OU3O	OU46	OUJ	OUJ O	- U0	I l e
v sob Amb	1O6X1	X- UN	X4U14	X U06	X4UJ		I l e
v sob Amb	111X1	OUJ O	OU2	OU2	OU23	11U1	I l e
v sPqAmb	4- X1	- N0 U16	- 660U O	- 6N1U02	- 34NUN6	- UJ N	I l e
v sPqAmb	44X1	- N04UNO	- 3O- U0O	- 316U04	- 331U N	2UN-	I l e
v sSenR	12X1						ql w
v sSenR	12X2						ql w
v hPSRr	- X1						ql w
v hPSRr	- X2						ql w
v hSmb Amb	2X2	4UN2	4UN6	4U3O	4U30	1U31	I l e
v nesR&	0X2	- U4	- U4-	- U4-	- U44	OUJ O	I l e
v nI l r S	6- X2	13U4O	13U03	16UN	13U1O	1U6-	I l e
t ywl SnwAmb	1 6X1						ql w
t ywl SnwAmb	1 6X2						ql w
FSeAmb	164X1						ql w
FSeAmb	164X2						ql w
GsonPARAmb	16OX1						ql w
GsonPARAmb	16OX2						ql w
9 nPb Amb	16 X1				1O3		%
9 nPb Amb	16 X2				1O6		%
DRoAmb	11 X1				1O		%
DRoAmb	11 X2				1OO		%
DSmR	4X2	NO34U41	N101UN4	N- 1 U33	N104UO1	1U43	I l e
DSmR	6X2	NN 6U32	N303UN6	N60NU20	N3N4U20	OU01	I l e
DSmR	3X2	N24 U3-	N2- 1UN-	N132U 6	N216U31	OU43	I l e
KSyl &aR	N- X1						ql w
Lr so	2O6X1	1NUJ2	13U4-	13U22	13U66	- UJ1	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:D :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PA R&psb I Pr:D :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r:cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0c EF. Ud

8sSsb r&S	Hsww	v nREr I 1	v nREr I 2	v nREr I -	cgMJv nRqU	v nRqEpt	CRA&w
Lr so	2O3X1	13U23	16UN-	16U3	16U0	1U6-	I I e
Lr so	2ONX1	13U04	13U00	16U0O	13U-1	- U10	I I e
LA&nAmb	6X1				0		%
HsMRr wAmb	24X2	1- - 2U1O	1- 33U13	1- - 6UO3	1- 4NU4	1UN	I I e
HsRMsRr w	X2	103U42	2O2UNN	2OOU23	2OOU10	1U-6	I I e
HnPyeor Rmb	04X1	2U N	2U-0	2U10	2U-0	NU21	I I e
HnPyeor Rmb	0 X1	OU4	OU-3	OU4O	OU41	0U32	I I e
HnPyeor Rmb	06X1	OU63	OU6O	OU-0	OU62	6U6-	I I e
HnPyeor Rmb	03X1	OU-0	OU-0	OU-	OU-3	0U3	I I e
HnPyeor Rmb	0NX1	OU41	OU-3	OU4O	OU-0	U2	I I e
ur noyb Amb	1 OX1						ql w
ur noyb Amb	1 OX2						ql w
uAqkr P	6OX2	6UN4	6UNO	6U43	6U31	- UOO	I I e
8hnwl hnSnw	- 1X2	01U3-	646U21	62NU1	622U1	4U43	I I e
8n&swwAmb	- 0X2	1O3 UN6	1O 4U03	1O 4U01	1O61U01	1U14	I I e
EhnoAmb	1O- X1				1O4		%
EhnoAmb	1O- X2				1O3		%
pqsRoAmb	4 X1				1O4		%
pqsRoAmb	4 X2				03		%
pr PRAmb	N2X1	XOU-1	OU11	XOU22	XOU21		I I e
pr PRAmb	33X2	4U06	14U14	NU40	0U2O	OU-6	I I e
pr PRAmb	3NX2	2U24	1U40	- U-1	2U-	- NUNO	I I e
pAAqnR	2NX1	2U-0	40U3O	40U1N	OU42	- U42	I I e
pAgr S	1O3X1	OUON	OU1O	OUOO	OUOO	1OU04	I I e
pAgr S	1OOX1	OUOO	OU1O	OU1O	OU1O	4U-	I I e
pnoAmb	2- X2	10U10	16UOO	2OU3O	1NU66	12U61	I I e
pS&nR&Amb	N6X1	- UN2	- 4U4O	- 4UNO	- UO1	2UON	I I e
pS&nR&Amb	NNX1	- 6U14	- 4U20	- 4U-2	- 4U02	- UO4	I I e
pmPmS	- 4X1	X22 U34	X23NOU4O	X23 4U04	X26OOUO-		I I e
i r SeAmb	1 0X1				1O6		%
i r SeAmb	1 0X2				1O		%
i hsPAmb	2O- X1	OU1O	OUON	OUON	OUOO	3U06	I I e
i hsPAmb	2O X1	OUON	OUON	OUO6	OUON	14U41	I I e
i AR	11NX1	OU41	OU-2	OU20	OU-4	1NU43	I I e
i A&sRAmb	43X1	2- U42	22U02	2- U24	2- U10	1U1O	I I e
CSsRAmb	2- NX1	OU60	OU6	OU6-	OU66	4U	I I e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse:psb l Pr:D :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PR&psb l Pr:D :J	H9 O. N1L	t ARr&nR. sq&aSJ	
t s&:T:i Ao r:cqdmSo:J	2O2- XO3X12:10J4- JO4	t s&s. Ar:usb r:J	1- 0c EF. Uo

8sSsb r&S	Hsww	v nRErl 1	v nRErl 2	v nRErl -	cgMJv nRqU	v nRqEpt	CR&w
VsRsoAmb	1X2	11U0N	12U4	11U0N	12U14	2U24	l l e
Y&&SeAmb	132X1						ql w
Y&&SeAmb	132X2						ql w
Y&&SeAmb	136X1						ql w
Y&&SeAmb	136X2						ql w
Y&&Amb	N0X1				1O6		%
Y&&Amb	N0X2				1O-		%
ZARq	66X2	64U1N	6- U12	6- U	6- U61	OUN4	l l e
ZASqnRAmb	0OX1	1U21	1U1-	1U14	1U16	- U6O	l l e
ZASqnRAmb	01X1	1U1-	1UO6	1U21	1U1-	6U0	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	- 6244F4h	- 6186F00	- 66h1F0:	- 6- 61FSS	SF0S	I I b
c n&Amon%	12171	SFh4	SF4S	SF4h	SF46	1hFh-	I I b
c rsenAq	0h72	1SF4:	11F1S	1SF: S	1SF8-	2F80	I I b
BarAum	1- h71	12- F- 4	1S8FSh	1S8Fh6	11- F- 2	0F66	I I b
BarAum	1- 071	12SF: :	11SF0h	1S: F- 1	11- F68	hF6S	I I b
Ber%lAum	: 71	SF60	SFh8	SF61	SF62	0F- 2	I I b
BAsmu&E	2S: 71				1S0		G
BAsmu&E	2S: 72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	SF: 6	SF2h	SFh0	SF6S	h: F00	I I b
RaOmAum	1S671	71FS:	76F26	7- F6-	7- F66		I I b
RaOmAum	11171	SF4S	SF- S	SF- -	SF- 4	14F0h	I I b
RalqAum	4- 71	14814F- :	1- 228FS4	12: 88F40	1- 606F: 0	0F26	I I b
RalqAum	4471	1h- : : F40	141h2F: h	1- h- hF08	14- 62F04	6F61	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	02FS:	02F- 0	04F04	0- FS0	1F: :	I I b
Robal&	h: 72	- 2F- 4	- 2F- h	- - F80	- 2F8h	2F68	I I b
Rol I er	6- 72	: : F08	1SSF- 6	1S- F: 0	1S1F- 0	2F24	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				1S:		G
KolmAum	16h72				1S0		G
DnOAum	11h71				1Sh		G
DnOAum	11h72				: :		G
Don	h472	6128: F04	6S028F11	62- 2hF44	61440F06	1F- 2	I I b
Don	h672	6S4hSF- 6	6140SF26	61: 0- FS:	612: 0F: S	1F20	I I b
Don	h072	62h84F- 6	610: 0F21	62: 82Fh6	624h4F01	SF: 0	I I b
k r%l &on	8- 71						ql s
LeaO	2S671	1hFSh	14F44	1- F14	14F21	6F80	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	14F. 2	1- F02	12F61	1- F0h	8F41	I I b
LeaO	2S871	1hF10	1- F. -	12F. 8	14FS-	0F8h	I I b
LA&EAum	671				: :		G
MagnesAum	2472	221- - F= S	22- S0Fh1	22h- hF02	22- 2hFh1	SF. S	I I b
Manganese	hh72	11S2FS6	1S82F8-	1122FS0	11S2F= 2	1F08	I I b
Mol%bOenum	: 471	2F. 2	2F. h	2F04	2F80	- F84	I I b
Mol%bOenum	: h71	1FSS	SF84	SF81	SF88	11F42	I I b
Mol%bOenum	: 671	1F18	1F1S	1FSh	1F11	hF86	I I b
Mol%bOenum	: 071	1FS1	SF8:	SF. -	SF. 4	6F2-	I I b
Mol%bOenum	: 871	SF. 2	SF81	SF0h	SF8-	1SF16	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	118FS6	118Fh0	121Fh4	11: F= :	1Fh0	I I b
PEosI Eorus	- 172	2- 46F1:	222: F04	2- 4hF64	2- S0F1:	2F. 1	I I b
Po&assAum	- : 72	1- 8: F22	1- 80F14	144- F18	14S6Fh2	2F26	I I b
5 EoOAum	1S- 71				1Sh		G
5 EoOAum	1S- 72				1Sh		G
pqanOAum	4h71				1S8		G
pqanOAum	4h72				: :		G
pelenAum	8271	SFh4	7SF= -	SF24	SF1h	2: - F. S	I I b
pelenAum	0072	18F10	2SF16	2- F2:	2SFh4	12Fh6	I I b
pelenAum	0872	hF01	4F18	4F0-	4F88	1hF. -	I I b
pAAqon	2871	211FS0	1: SF= 4	18hF. 4	1: hF0:	6F86	I I b
pAver	1S071	SF14	SF1-	SF1-	SF1-	4F41	I I b
pAver	1S: 71	SF1h	SF11	SF14	SF1-	16FS:	I I b
poOAum	2- 72	0- 8F88	0- 1F. 4	00hF14	048F6h	- F1S	I I b
p&onA&um	8671	86F0h	8- F22	81F. :	8- F. :	2F. h	I I b
p&onA&um	8871	88FSS	81F48	0: F28	82F. 2	hF40	I I b
pulVur	- 471	718S4F1:	72: - 8F0S	7- S2SF2-	72h80F01		I I b
i erbAum	1h: 71				1S:		G
i erbAum	1h: 72				1S6		G
i EallAum	2S- 71	SF1-	SF12	SF1S	SF12	1- F80	I I b
i EallAum	2Sh71	SF1-	SF1S	SF11	SF11	1- Fh6	I I b
i An	11871	1FS-	SF. h	SF00	SF. 2	14F68	I I b
i A&anAum	4071	44- F8h	4S2FS:	- : hF0:	41- F. 1	6F= 1	I I b
UranAum	2- 871	SFh-	SFhS	SF48	SFhS	hF6-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
yanaOAum	h172	111F26	11SF01	112F: :	111F6h	1FS6	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				1S:		G
Y&&Aum	8: 72				1S4		G
ZAnq	6672	1- 1F0h	1- 1F01	14SF28	1- 4Fh8	- F60	l l b
ZAqonAum	: S71	1F2h	1F2h	1F16	1F22	4F- h	l l b
ZAqonAum	: 171	1F16	1F1-	1FS0	1F12	- F88	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	- 816hFS8	- 66: 4F. S	- 81- 1F26	- 066- F0h	2F2-	l l b
cn&Amon%	12171	SFh-	SFh4	SF48	SFh2	hF66	l l b
crsenAq	0h72	41F1:	- 6F- -	- 0F. 4	- 8F48	6F4-	l l b
BarAum	1- h71	1h6F11	1h6F18	1h8F10	1h6FB2	SF0h	l l b
BarAum	1- 071	1h6F61	1h8F- S	16- F20	1h: F- :	2F10	l l b
Ber%lAum	: 71	SF66	SF64	SF68	SF66	2F6-	l l b
BAsmu&E	2S: 71				1S:		G
BAsmu&E	2S: 72				1S8		G
BromAne	8171						ql s
RaOmAum	1S871	SF4S	SF40	SFhh	SF40	1hF6:	l l b
RaOmAum	1S671	76F04	76F1h	7hFB2	76F24		l l b
RaOmAum	11171	SF2:	SF- 4	SF28	SF- S	1SFB:	l l b
RalqAum	4- 71	h00hF4S	h846Fh6	h: 81Fh2	h860FB2	1F08	l l b
RalqAum	4471	61ShF- 4	6- 0- F18	6- 2- F02	6260F41	2F20	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	01F10	0SF0:	02FSS	01F- 2	SFB0	l l b
Robal&	h: 72	2hF44	2hF12	2hF. 6	2hFh1	1F60	l l b
Rol l er	6- 72	: - F0S	: 1F0-	: hFh:	: - F60	2FS6	l l b
t %sl rosAum	1h671						ql s
t %sl rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				112		G
KolmAum	16h72				1S8		G
DnOAum	11h71				1S:		G
DnOAum	11h72				1S1		G
Don	h472	h16: 0F20	h16: hF. h	h- 20: F- -	h2224F18	1F0h	l l b
Don	h672	h110SF06	hS220Fh1	h2S: 2F00	h116- F68	1FB2	l l b
Don	h072	h2- - hF20	h2261FSS	h4244FS6	h2: 46F08	2F12	l l b
kr%l &on	8- 71						ql s
LeaO	2S671	2: F2S	2: F46	2: F20	2: F- 1	SF46	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	20F81	28F4:	28F2h	28F18	1F2-	I I b
LeaO	2S871	28F62	28F61	28F- 8	28Fh4	SF40	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1h066F- 8	1h- 1: F8-	1h0h2F- :	1h612F80	1F6-	I I b
Manganese	hh72	: 22F. 8	: 1- F2-	: 44F0-	: 26F. 8	1F04	I I b
Mol%bOenum	: 471	1F. S	2F18	2F12	2FS0	0F14	I I b
Mol%bOenum	: h71	SF88	1FS8	1FS:	1FS2	12FSS	I I b
Mol%bOenum	: 671	1FS1	1F- 1	1F24	1F18	1- F- 0	I I b
Mol%bOenum	: 071	1FS2	1F1-	SF. 4	1FS-	: F22	I I b
Mol%bOenum	: 871	SF8:	1FS4	1F12	1FS2	11F06	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	86F0-	86F1:	80F8-	86F. 2	SF. 6	I I b
PEosI Eorus	- 172	8- 2F- 0	026F2:	: : 0Fh2	8h2FS6	16FS4	I I b
Po&assAum	- : 72	12hSF22	11: 0F4h	12- 6F. 1	1228F2S	2F2-	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S0		G
pqanOAum	4h71				11S		G
pqanOAum	4h72				1SS		G
pelenAum	8271	SF26	7SF16	7SF24	7SFS4		I I b
pelenAum	0072	: F06	11F48	1- F- -	11Fh-	1hF4:	I I b
pelenAum	0872	1Fh2	2F1h	1F01	1F0:	18FS1	I I b
pAAqon	2871	206Fh6	28SF. 4	284F61	28SF0S	1F44	I I b
pAver	1S071	SF22	SF2-	SF22	SF22	1Fh:	I I b
pAver	1S: 71	SF18	SF2h	SF22	SF22	10F40	I I b
poOAum	2- 72	h- : F- h	h4SF88	h61F0-	h40F- 2	2F28	I I b
p&ona&um	8671	4- FS8	4hFh2	46F. 2	4hF10	4F- S	I I b
p&ona&um	8871	4- F84	44F2S	4hF. 2	44F6h	2F4:	I I b
pulVur	- 471	7- - 1: FS0	7- 200F2-	7- S: 0F66	7- 2- 1F- 2		I I b
i erbAum	1h: 71				112		G
i erbAum	1h: 72				1S0		G
i EallAum	2S- 71	SF16	SF16	SF16	SF16	SF- 6	I I b
i EallAum	2Sh71	SF1h	SF16	SF16	SF16	hFSS	I I b
i An	11871	1FhS	1Fh1	1F- 0	1F46	hF48	I I b
i A&anAum	4071	h2: F0S	h- 1F24	h42F8:	h- 4F61	1F- h	I I b
UranAum	2- 871	1F- h	1F- 8	1F- -	1F- h	1F0:	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	: 8F5:	: 0F4-	1S1F4-	: 8F: 8	2F16	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				111		G
Y&&Aum	8: 72				1S0		G
ZAnq	6672	1- SF20	128F20	1- - FS0	1- SFh4	1F8h	l l b
ZAqonAum	: S71	SF04	SF01	SF0h	SF0-	2F0h	l l b
ZAqonAum	: 171	SF01	SF02	SF0-	SF02	1F64	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdPP u sb r 9	142qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2N- : 6UN4	206S- U6	2N- 01US:	2N12- U06	1U6S	DDe
q5Tb n5%	12171	SU1J	SU1N	SU1N	SU10	1SU1-	DDe
qpwr 5cd	0J72	2- U6S	2- UJ-	2- US-	2- U:	1U-	DDe
Bspcmb	1- J71	N6U06	N6US6	N: U2N	N0U0	1U4	DDe
Bspcmb	1- 071	NNU4N	NNU2J	: SU24	NNU:	1U22	DDe
Br p%PPmb	: 71	SU4-	SU42	SU42	SU42	1U60	DDe
Bcvb mTE	2S: 71				1S:		G
Bcvb mTE	2S: 72				1SN		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	SU1:	SU4S	SU4	SU1	- JU J	DDe
v sob cmb	1S671	74U00	76U1J	7JUJJ	7JU4:		DDe
v sob cmb	11171	SUS:	SU11	SU1-	SU11	16UN4	DDe
v sPdcmb	4- 71	2606U2N	264SUN4	2614U-	264- UN2	1U1N	DDe
v sPdcmb	4471	2664U26	2644U0:	2610U2J	2642U1S	SUN:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- J71						dDw
v EPhpc5r	- J72						dDw
v Epmb cmb	J272	42U02	42U2S	4- U0	42U06	1U0	DDe
v nesPT	J: 72	16U6	16U12	16U61	16U6	1UJ2	DDe
v nDDr p	6- 72	J6U0	JJU0N	J0U26	J6U40	1U2	DDe
&%wDpnwcmb	1J671						dDw
&%wDpnwcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
KnPb cmb	16J71				111		G
KnPb cmb	16J72				1S0		G
t5ocmb	11J71				11S		G
t5ocmb	11J72				: :		G
tpn5	J472	- : - J6UJ-	- : 0: - U S	- : : S6UJ1	- : 6NJU6J	SU0-	DDe
tpn5	J672	- : - 42US6	- : J22U2N	- : 44SUS6	- : 4- 4UNS	SU2-	DDe
tpn5	J072	- 6012U6-	- 6N10U02	- 6: - 0U01	- 6N22U6:	SU1	DDe
kp%DTn5	N- 71						dDw
Lr so	2S671	6US1	JUN:	6US0	JU:	1U4:	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DPP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmqpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdPP usb r 9	142qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JUJ:	JU61	JUN-	JU6N	2UJ J	DDe
Lr so	2SN71	JUN2	JU60	JUN:	JUNS	1UJ N	DDe
LdTEcmb	671				1S1		G
y sM5r wcmb	2472	11200U24	11SN- U11	1112- U6:	11161UJ J	SUJ 2	DDe
y s5Ms5r wr	JJ72	0SJUS6	6: 6U2S	6: NU62	6: : UJ 6	SU6J	DDe
y nP%eor 5mb	: 471	- UJ 2	2UJ N	- US2	- U11	6US6	DDe
y nP%eor 5mb	: J71	SUN6	SUN:	SUN0	SUN0	1U46	DDe
y nP%eor 5mb	: 671	1U1:	1U14	1U22	1U1N	- U41	DDe
y nP%eor 5mb	: 071	SUJ 0	SUN-	SUN:	SUJ S	0U4S	DDe
y nP%eor 5mb	: N71	SUJ J	SUNU	SUN:	SUJ S	JU2N	DDe
u r no%b cmb	1JS71						dDw
u r no%b cmb	1JS72						dDw
ucdf r P	6S72	6SUSJ	6SU6N	61UJ S	6SU6N	1US-	DDe
8 EnwDEnpmw	- 172	6S- U01	J0- U60	60SUJ 1	616US:	NUSN	DDe
8 nTswwcmb	- : 72	J0SUNS	J4SUS0	J01UJ N	J6SU0J	- U1:	DDe
CEnocmb	1S- 71				1S:		G
CEnocmb	1S- 72				1SJ		G
l ds5ocmb	4J71				11S		G
l ds5ocmb	4J72				: N		G
l r Pr 5cmb	N271	7SU42	7SUS:	SUS2	7SU16		DDe
l r Pr 5cmb	0072	4US-	4U12	NU6-	JUJ:	40US6	DDe
l r Pr 5cmb	0N72	SUN4	1U1S	1UN-	1U26	4SUJ:	DDe
l dPdn5	2N71	21JU14	2S: UJJ	2S6UJ4	21SU41	2USN	DDe
l dPgr p	1S071	SUSN	SUSN	SUS:	SUSN	4U2N	DDe
l dPgr p	1S: 71	SUS0	SUSN	SUSN	SUSN	6UN6	DDe
l nocmb	2- 72	1- JU40	1- 2US1	1- NUNN	1- JU46	2UJ4	DDe
l Tpn5Tcmb	N671	14UJ1	14UJ4	1JU11	14U02	2U2:	DDe
l Tpn5Tcmb	NN71	14U42	14U64	14U64	14UJ0	SUN6	DDe
l mPVmp	- 471	7- 004U1S	7- : S4USJ	7- : : NUJ :	7- N: 2UJ N		DDe
Ar pecmb	1J: 71				111		G
Ar pecmb	1J: 72				1SJ		G
AEs PPcmb	2S- 71	SU11	SU11	SU12	SU11	6UJ 4	DDe
AEs PPcmb	2SJ71	SUS:	SUS:	SU1S	SU1S	- UJN	DDe
Ad5	11N71	SU2:	SU24	SU20	SU20	: U1J	DDe
AdS5cmb	4071	4N2UJ6	460UNS	46: U1-	40- U16	1U0-	DDe
Rps5cmb	2- N71	SUJN	SUJN	SU6S	SUJ:	2US:	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Rt 5Tl sb DP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdP u sb r 9	142qC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
hs5sodmb	J172	6NJJ	6: U12	0SU2N	6: U2	1U20	DDe
YTTr pedmb	10271						dDw
YTTr pedmb	10272						dDw
YTTr pedmb	10671						dDw
YTTr pedmb	10672						dDw
YTTpdmb	N: 71				11S		G
YTTpdmb	N: 72				1S1		G
Zd5d	6672	66UNN	66U14	60U6-	66UNN	1U11	DDe
Zqpdn5dmb	: S71	1U4	1U2-	1U20	1U2N	- U6	DDe
Zqpdn5dmb	: 171	1U:	1U21	1U2S	1U20	NJJ-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFS1	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPP:u sb r :J	14- q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gM:v n5dU	v n5dCI &	R5dTw
q Pmb d5cmb	20 2	4249U24	4220UN0	422SUN0	42- 2U66	SU-7	DDe
q 5Tb n5%	121 1	SU47	SU41	SU4-	SU4-	4U77	DDe
q pwr 5cd	07 2	0U26	6UN2	6U69	6U9-	4U29	DDe
Bspcmb	1- 7 1	141U79	14- U91	142US1	142U7S	SUN0	DDe
Bspcmb	1- 0 1	1- 9U46	144UN-	1- 9U76	141U2N	2U10	DDe
Br p%PPmb	9 1	1U1N	1U21	1U17	1U1N	2U91	DDe
Bcwb mTE	2S9 1				1S4		G
Bcwb mTE	2S9 2				1SN		G
Bpmb d5r	N1 1						dDw
v sob cmb	1SN 1	SU-6	SU49	SU79	SU4N	2- U77	DDe
v sob cmb	1S6 1	4U24	- U77	2U66	- U4N		DDe
v sob cmb	111 1	SU-1	SU29	SU2S	SU20	21U69	DDe
v sPdcmb	4- 1	2S0S- U7N	2144- USN	2S- 67US-	2SN- 0U2-	2U67	DDe
v sPdcmb	44 1	2160SU40	22444US2	212SSU21	21001U70	2UNN	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpd5r	- 7 1						dDw
v EPhpd5r	- 7 2						dDw
v Epmb cmb	72 2	14U96	14U47	14U1N	14U7-	2U07	DDe
v nesPT	79 2	- U71	- U67	- U67	- U6S	2U20	DDe
v nDDr p	6- 2	9U61	9U44	9U20	9U44	1UN1	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				1S6		G
h nPb cmb	167 2				1SN		G
t5ocmb	117 1				1S4		G
t5ocmb	117 2				1S2		G
tpn5	74 2	120NNU29	1201- U46	1269- UN0	120- 1UNN	SU-9	DDe
tpn5	76 2	1- 066U22	1- 776U6N	1- 7- 0UNN	1- 62SU26	SU9-	DDe
tpn5	70 2	12001U6S	127- NU29	12402U0N	12794U22	1U27	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	2- U2S	24U91	22UN4	2- U67	4U6N	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFS1	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPP:u sb r :J	14- qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	22U14	2- U1S	21U66	22UJS	- U2N	DDe
Lr so	2SN 1	22U0-	2- UN6	22U22	22U94	- U67	DDe
LdEomb	6 1				96		G
y sM5r womb	24 2	6S67U11	79- SU4N	6S2SU6-	6SS7U41	1U14	DDe
y s5Ms5r wr	77 2	447UN4	44- U12	44SUJ4	44- U1S	SU62	DDe
y nP%eor 5mb	94 1	6U61	6U06	6U7S	6U62	1U9-	DDe
y nP%eor 5mb	97 1	1UJN	1U44	1U4-	1U42	2U19	DDe
y nP%eor 5mb	96 1	1U91	1U90	1UN6	1U91	2UN6	DDe
y nP%eor 5mb	90 1	1U7S	1U7S	1U46	1U49	1U2-	DDe
y nP%eor 5mb	9N 1	1UJN	1U42	1U41	1U4S	1U6N	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	6U17	6U01	6U69	6U72	4UN1	DDe
8 EnwDEnpmw	- 1 2	719U1-	4- NU9S	7S6U9-	4NNUJ2	NUN7	DDe
8 nTswwomb	- 9 2	1NS4U44	1066UJ-	1062U79	1000U09	1UJS	DDe
CEnoomb	1S- 1				1S-		G
CEnoomb	1S- 2				1SN		G
I ds5oomb	47 1				1S2		G
I ds5oomb	47 2				1SS		G
I rP 5omb	N2 1	SU4S	SU20	SU1-	SU26	7SU67	DDe
I rP 5omb	00 2	- 4UN7	29UN-	- 1UN1	- 2U10	0UN6	DDe
I rP 5omb	0N 2	7U29	6U11	4US6	7U17	19U96	DDe
I dPdn5	2N 1	121U40	12- U06	110U70	12SU94	2U79	DDe
I dPgr p	1S0 1	SU11	SU11	SU14	SU12	12U29	DDe
I dPgr p	1S9 1	SU14	SU1-	SU1S	SU1-	17U9S	DDe
I nomb	2- 2	1S9UN7	1SNU70	1S4U92	1S0U0N	2UJN	DDe
I Tpm5Tomb	N6 1	4- U76	4- U76	4- U02	4- U61	SU21	DDe
I Tpm5Tomb	NN 1	42UN1	44U2S	4- U11	4- UJ0	1U69	DDe
I mPmp	- 4 1	2742UJ7	10S6U26	1606UN6	1907U16		DDe
Ar pemb	179 1				1S7		G
Ar pemb	179 2				1S0		G
AEs PPmb	2S- 1	SU2S	SU19	SU14	SU1N	16U42	DDe
AEs PPmb	2S7 1	SU10	SU19	SU17	SU10	12US7	DDe
Ad5	11N 1	1U4-	1U72	1U72	1U49	- U7N	DDe
AdS5omb	40 1	- 4SU26	- 7SU17	- - 1UN2	- 4SU04	2U69	DDe
Rps5omb	2- N 1	1UJN	1U49	1U4S	1U4-	4U17	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFS1	&dPmTcn5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPr:u sb r :J	14- q C. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	14U69	14UN7	14U20	14U6S	2US4	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				1SN		G
YTTpomb	N9 2				11S		G
Zc5d	66 2	1S9U07	1S6U-N	1S- U61	1S6U7N	2UN9	DDe
Zqpdn5omb	9S 1	- US9	- U26	- US6	- U1-	- U44	DDe
Zqpdn5omb	91 1	- US0	- U14	- US6	- US9	1U71	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S2	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFS7	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :u wb r :J	144qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	4S97Ua2	4S- aU00	4477U-4	4196U64	7U-a	DDe
q5Tb n5%	121 1	SU-1	SU-	SU-a	SU-4	11U14	DDe
qpl r 5cd	07 2	6US9	7U4a	0U16	6U24	1- U7a	DDe
Bwpcmb	1- 7 1	1- SU96	1- 6Ua2	142U-	1- 6U0S	4U16	DDe
Bwpcmb	1- 0 1	1- 1U2-	1- 9U-	144U16	1- aU24	4U0-	DDe
Br p%8mb	9 1	1U21	1U21	1U-1	1U24	4U00	DDe
Bdb mTE	2S9 1				117		G
Bdb mTE	2S9 2				1S7		G
Bpmb d5r	a1 1						dDl
v wob cmb	1Sa 1	SU46	SU77	SU71	SU71	aU76	DDe
v wob cmb	1S6 1	4U60	1Ua0	- U69	- U41		DDe
v wob cmb	111 1	SU16	SU19	SU26	SU2S	24U49	DDe
v w8dcmb	4- 1	2- 626U-2	2- aa0U94	24a92U66	241- 7U64	2U00	DDe
v w8dcmb	44 1	24160U69	27S66U04	27aa6U46	27S4SU-S	- U4-	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	14Ua0	14Ua7	16U17	17U29	4Uaa	DDe
v new8T	79 2	- U04	- U00	4US4	- Ua7	4U-0	DDe
v nDDr p	6- 2	9U1a	9U16	1SU24	9U7-	6U49	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				117		G
h n8b cmb	167 2				1S0		G
t5ocmb	117 1				114		G
t5ocmb	117 2				1SS		G
tpm5	74 2	12S76U0S	1190- U47	1- S79U19	12- 6- U11	4Ua9	DDe
tpm5	76 2	12a01U60	12a77US-	1- 946U19	1- 224U-S	4U0-	DDe
tpm5	70 2	1196SU-6	11979U94	1291aUS6	12209U46	4U7S	DDe
Kp%DTn5	a- 1						dDl
Lr wo	2S6 1	2SU-a	2SU26	22U76	21US0	6U1-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 47S S2	t5l Tpmb 5r Tuwb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFS7	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :uwb r :J	144qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	1aU19	1aU6a	2SU47	19U11	6U21	DDe
Lr wo	2Sa 1	19U4a	19U69	21U47	2SU21	7U4	DDe
LdEomb	6 1				1S2		G
y wW5r l omb	24 2	666- U2-	67a4U1S	01a0USS	6a11U44	4Ua1	DDe
y w5Mw5r l r	77 2	49aU20	7SSU47	742U02	71- Ua1	4Uaa	DDe
y n8%eor 5mb	94 1	7U-	7U26	7U76	7U9	2Ua9	DDe
y n8%eor 5mb	97 1	SU97	SU9-	1US1	SU96	4U41	DDe
y n8%eor 5mb	96 1	1U4-	1U44	1U2	1U4S	4U69	DDe
y n8%eor 5mb	90 1	SU99	SU94	1US4	SU99	4U69	DDe
y n8%eor 5mb	9a 1	SU90	1US4	SU9-	SU9a	7U61	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	6U6	6U11	6U96	6U4a	6UaS	DDe
NEnl DEnpm	- 1 2	7- SU04	469U6	7S9U94	7S- U7	6U2S	DDe
NnTwl omb	- 9 2	10- - U69	100SUa7	1949Ua0	1a1aU14	6U6	DDe
CEnoomb	1S- 1				114		G
CEnoomb	1S- 2				1S6		G
l dw5oomb	47 1				117		G
l dw5oomb	47 2				9a		G
l r 8 5omb	a2 1	SUS1	SU44	SUS	SU24	96US1	DDe
l r 8 5omb	00 2	29US0	2aU24	- 9U19	- 2U10	1aU97	DDe
l r 8 5omb	0a 2	6U91	4US7	0U91	6U29	- 1Ua7	DDe
l 8dn5	2a 1	116Ua2	11aU92	124U01	12SU17	- U4S	DDe
l 8gr p	1S0 1	SUSa	SU1S	SU1S	SUS9	14US-	DDe
l 8gr p	1S9 1	SUSa	SU1S	SUSa	SUS9	1- U1	DDe
l nomb	2- 2	11SU1	11aUS9	127U1	110U9S	6U6	DDe
l Tpn5Tomb	a6 1	4- Uaa	47U6-	46Uaa	47U40	- U1	DDe
l Tpn5Tomb	aa 1	44U29	47Ua1	46U9-	47U6a	2U9S	DDe
l m8mp	- 4 1	26a9US	2060U24	2174U7-	27- 0US-		DDe
Ar peomb	179 1				116		G
Ar peomb	179 2				1S6		G
AEw8omb	2S- 1	SU17	SU17	SU10	SU16	6U29	DDe
AEw8omb	2S7 1	SU10	SU14	SU10	SU16	9US	DDe
Ad5	11a 1	6US-	6U2	6U0-	6U6	7U7-	DDe
AdTw5omb	40 1	2a- U7	2a9U11	29aU24	29SU2-	2U79	DDe
Rpw5omb	2- a 1	1U2	1U41	1U4a	1U4S	7Ua-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 47S S2	t5l Tpmb 5r Tu wb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFS7	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :q dOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :u wb r :J	144q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	14U7	14U47	17U6	14U02	- U09	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	a9 1				11a		G
YTTpcmb	a9 2				11S		G
Zc5d	66 2	a1U S	a1U61	a0U47	a- U79	4U42	DDe
Zqcdn5cmb	9S 1	2U49	2U76	2U66	2U70	- U4-	DDe
Zqcdn5cmb	91 1	2U29	2U0S	2U0-	2U70	9U01	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
c lumAnAum	20 2	12S7F24	1111F- -	1104F72	116- F0S	4F11	I I b
c n&Amonh	121 1	SFS0	SFS8	SF1S	SFS8	21F47	I I b
c rsenAq	07 2	2F- 8	2FS-	2FS%	2F10	8F48	I I b
BarAum	1- 7 1	- 2F02	- 4F72	- 2F46	- - F2-	- F- 0	I I b
BarAum	1- 0 1	- - F24	- - F00	- - F20	- - F4-	SP%S	I I b
BerhlIAum	%1	SF44	SF47	SF48	SF47	4F- S	I I b
BAsmu&E	2S%1				11-		G
BAsmu&E	2S%2				%0		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SFSS	SF4-	SFS4	SF16	171F80	I I b
RaOmAum	1S6 1	2F84	4FS7	- F28	- F- %		I I b
RaOmAum	111 1	SFS0	SFS-	SFS8	SFS6	- %F- %	I I b
RalqAum	4- 1	0241P%7	0- S1F- 2	020SF0-	0201F- -	SF41	I I b
RalqAum	44 1	0767F7S	006- F- 6	00S1F71	0606F0%	1F- 2	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
RElorAne	- 7 1						ql s
RElorAne	- 7 2						ql s
REromAum	72 2	2FS6	1F10	1F- 4	1F72	- 1F10	I I b
Robal&	7%2	1FS-	SP%2	1FS7	1FSS	0F28	I I b
RoI I er	6- 2	2F47	2F- -	2F47	2F41	2P%7	I I b
t hsI rosAum	176 1						ql s
t hsI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				117		G
y olmAum	167 2				%0		G
DnOAum	117 1				116		G
DnOAum	117 2				%2		G
Don	74 2	4684F67	4- %2F- 7	4677F8-	4700F61	- F72	I I b
Don	76 2	7107F16	4021F2%	4% 1P%7	4%42F8S	4F6S	I I b
Don	70 2	4676P%6	4- 28F17	470SF86	4718F66	- F00	I I b
Krhl &on	8- 1						ql s
LeaO	2S6 1	4F1S	4F12	4F2S	4F14	1F18	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	- F6%	- F8-	- F81	- F08	1P%%	I I b
LeaO	2S8 1	- P%4	4FS1	4FSS	- P%8	SF8%	I I b
LA&EAum	6 1				%%		G
MagnesAum	24 2	2S48F- -	1867P%7	2S16F6-	1%06P%0	4P%.	I I b
Manganese	77 2	288F8%	262F4%	200F60	206F- 7	4F0%	I I b
MolhbOenum	%4 1	1F6-	1F87	1P%8	1F82	%P%6	I I b
MolhbOenum	%7 1	SF71	SF74	SF76	SF74	4F4S	I I b
MolhbOenum	%6 1	SF70	SF78	SF6S	SF78	2P%0	I I b
MolhbOenum	%0 1	SF48	SF47	SF46	SF46	2P%2	I I b
MolhbOenum	%8 1	SF40	SF4%	SF48	SF48	- FS1	I I b
NeoOhmAum	17S 1						ql s
NeoOhmAum	17S 2						ql s
NAqkel	6S 2	1F24	1F24	1F- 0	1F28	7F87	I I b
PEosI Eorus	- 1 2	1SSF07	110F20	1S4F17	1S0F- %	8F12	I I b
Po&assAum	- %2	7SSF42	4- 4F- S	402P%S	46%F2S	0FS8	I I b
5 EoOAum	1S- 1				117		G
5 EoOAum	1S- 2				%0		G
pqanOAum	47 1				11-		G
pqanOAum	47 2				8%		G
pelenAum	82 1	SFS6	SF7-	SF1S	SF1%	161F01	I I b
pelenAum	00 2	%F7%	0F44	14F16	1SF4S	- - FSS	I I b
pelenAum	08 2	1F02	1P%S	1F72	1F02	11F14	I I b
pAAqon	28 1	40F1-	46P%4	46P%7	40FS1	SF2-	I I b
pAver	1S0 1	SFS4	SFS-	SFS-	SFS4	2SF84	I I b
pAver	1S%1	SFS-	SFS-	SFS-	SFS-	6P%8	I I b
poOAum	2- 2	1S6F62	88F77	%. F42	%6F2S	%F02	I I b
p&ona&um	86 1	%F8%	1SF8%	1SF- 1	1SF- 6	4F80	I I b
p&ona&um	88 1	1SF2%	1SF7S	1SF24	1SF- 4	1F- 4	I I b
pulfur	- 4 1	1%62F6%	2S27F- 6	1%. 6F2-	1%04F06		I I b
i erbAum	17%1				114		G
i erbAum	17%2				%7		G
i EallAum	2S- 1	SFS7	SFS7	SFS-	SFS4	- 6FS0	I I b
i EallAum	2S7 1	SFS4	SFS4	SFS7	SFS4	16F14	I I b
i An	118 1	SF2%	SF20	SF24	SF26	%F0S	I I b
i A&anAum	40 1	01F11	0- F04	0- F18	02F68	1P%S	I I b
UranAum	2- 8 1	SF47	SF48	SF46	SF46	- F16	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	71 2	- F27	2F82	- F- 4	- F14	8F%2	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8%1				117		G
Y&&Aum	8%2				%7		G
ZAnq	66 2	46F4%	44F52	47F50	47F1%	2F04	I I b
ZAqonAum	%S 1	SF00	SF87	SF8S	SF81	4F70	I I b
ZAqonAum	%1 1	SF%2	SF81	SF86	SF86	6F2%	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49-0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	1640SF77	1h704F12	164- SF-8	16271F8-	1F67	I I b
c n&mon%	121 1	SFh2	SFh6	SFh-	SFh-	- F0S	I I b
c rsenAq	0h 2	27F01	27F-S	27F81	27F61	SF72	I I b
BarAum	1- h 1	4h1F16	467F2S	4- 8F1h	4h2F84	- F44	I I b
BarAum	1- 0 1	4hhFS6	402F1h	44SF77	4h6FS0	- F42	I I b
Ber%lAum	7 1	1F08	1F81	1F82	1F8S	1F-2	I I b
BAsmu&E	2S7 1				1S7		G
BAsmu&E	2S7 2				1S7		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F-6	1Fh2	1F1-	1F- -	14F62	I I b
RaOmAum	1S6 1	SF-8	1F0-	1F21	1F11		I I b
RaOmAum	111 1	1F26	1F16	1F10	1F2S	4F8h	I I b
RalqAum	4- 1	1660- F81	18S4hF21	16682Fhh	101- - F86	4F61	I I b
RalqAum	44 1	1041SF72	1877SF7S	10h0hFS-	10772F28	4F8-	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	27Fh8	27F0-	- SF-S	27F80	1F28	I I b
Robal&	h7 2	22F44	21Fh0	22F1S	22FS-	1F77	I I b
RoI I er	6- 2	6hFS1	62F82	6hF28	64F-0	2FS7	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				112		G
y olmAum	16h 2				11S		G
DnOAum	11h 1				11S		G
DnOAum	11h 2				1S4		G
Don	h4 2	h2460F-h	h2S4- F8h	h- h20F47	h2607Fh6	1F4h	I I b
Don	h6 2	h2241F70	h1S01F11	h1707F1h	h1064FS0	1F17	I I b
Don	h0 2	h- 116F0h	h1- 17F00	h28- - F8h	h242- F46	1F84	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	08F72	8SF81	06F66	08F8S	2F64	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49-0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	0hF00	00F27	04FS8	0hF01	2F12	I I b
LeaO	2S8 1	00F4h	08F87	0hF- 0	00F24	2F27	I I b
LA&EAum	6 1				1S1		G
MagnesAum	24 2	018- F- 6	6862F74	0S64F16	0S- 6F82	2F- S	I I b
Manganese	hh 2	1SS0FS1	766FS0	770F76	77SF- 4	2F10	I I b
Mol%bOenum	74 1	8F- -	8Fh-	8F11	8F- 2	2Fh2	I I b
Mol%bOenum	7h 1	1F71	2F1h	1F76	2FSS	6F- 2	I I b
Mol%bOenum	76 1	2Fh8	2F61	2F00	2F66	- F0-	I I b
Mol%bOenum	70 1	1F78	2F2h	2FS-	2FS7	6F60	I I b
Mol%bOenum	78 1	2FS4	2F1-	2F11	2FS7	2F27	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	46F86	4hF22	40FS6	46F- 8	2F18	I I b
PEosI Eorus	- 1 2	2666FS7	2064Fh1	2870F- 0	200hF77	4F18	I I b
Po&assAum	- 7 2	- 8- 8F06	- 816F7-	- 802F02	- 842F8S	SF0-	I I b
5 EoOAum	1S- 1				11S		G
5 EoOAum	1S- 2				11S		G
pqanOAum	4h 1				11-		G
pqanOAum	4h 2				1S-		G
pelenAum	82 1	2F16	1F08	2F16	2FS-	1SF08	I I b
pelenAum	00 2	4SF74	4SF2-	42F7h	41F- 0	- F41	I I b
pelenAum	08 2	1SF- 4	0F87	7F4S	7F21	1- F42	I I b
pAAqon	28 1	17SF26	2S8F76	180F62	17hF61	hF7h	I I b
pAver	1S0 1	SF- 6	SF- 6	SF- -	SF- h	hF04	I I b
pAver	1S7 1	SF- 0	SF- 6	SF- 6	SF- 6	1F2h	I I b
poOAum	2- 2	- - 6F- 6	- 22F42	- 41F42	- - - F4S	2F7h	I I b
p&ona&um	86 1	1h7F84	16hF0-	16- FhS	16- FS2	1F82	I I b
p&ona&um	88 1	168F1-	107Fh1	101F6h	10- F1S	- F- 0	I I b
pulfur	- 4 1	1816F8h	1472F81	22S0F40	18- 7FS4		I I b
i erbAum	1h7 1				112		G
i erbAum	1h7 2				1S0		G
i EallAum	2S- 1	SF4S	SF- 7	SF- h	SF- 8	6F- 0	I I b
i EallAum	2Sh 1	SF- 8	SF41	SF- 8	SF- 7	hF27	I I b
i An	118 1	1F07	1F0h	1F80	1F8S	- Fh4	I I b
i A&anAum	40 1	07F07	80F4-	8SFS6	82F4-	hF26	I I b
UranAum	2- 8 1	- F61	- F86	- F64	- F0S	- F61	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49 0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	0SF88	67F4-	02FS2	0SF00	1F84	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				118		G
Y&&Aum	87 2				117		G
ZAnq	66 2	266F80	2h8FSh	264F77	26- F S	1F06	I I b
ZAqonAum	7S 1	- F0S	- F7-	4FSS	- F80	4FS6	I I b
ZAqonAum	71 1	- Fnh	- F08	- F00	- F0S	- Fn2	I I b

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LB9u mb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Pr 5T9l sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
qPmb c5cmb	20 2	2777: U4N	2: 447U07	2: S- 0U4:	26N20U N	1SU26	DDe
q5Tb n5%	121 1	2U0N	- US6	- US0	2U70	: U 1	DDe
qpwr 5cd	0: 2	61U7	: 0U6	: : U6-	: NU17	: US4	DDe
Bspcmb	1- : 1	606U N	02: U12	01SU27	0S4USS	- U -	DDe
Bspcmb	1- 0 1	01- U60	07NUS7	04NU6S	0: - U4:	: U6-	DDe
Br p%PPmb	7 1	- U02	- U07	- U06	- U06	SU7N	DDe
Bcvb mTE	2S7 1				114		G
Bcvb mTE	2S7 2				1S:		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	- UN:	4U10	4US4	4US2	4US1	DDe
v sob cmb	1S6 1	1US1	SU22	1U2S	SUS1		DDe
v sob cmb	111 1	- UNN	- U72	4U1S	- U70	2U7S	DDe
v sPdcmb	4- 1	46622U7	4N476U4-	407SNU62	4060: UNN	2US1	DDe
v sPdcmb	44 1	4N6N2U4	: SN: 2U0S	: S4- 1U16	477NNUNS	2U S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- : 1						dDw
v EPhpc5r	- : 2						dDw
v Epmb cmb	: 2 2	40U2-	4- U10	42U4-	44U2N	: UN4	DDe
v nesPT	: 7 2	10U12	1: U0S	1: U :	16US6	: UN:	DDe
v nDDr p	6- 2	144U1N	12NU1:	126U0-	1- - US2	0U2N	DDe
&%wDpnwcmb	1: 6 1						dDw
&%wDpnwcmb	1: 6 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	16: 1				11N		G
h nPb cmb	16: 2				1S:		G
t5ocmb	11: 1				11-		G
t5ocmb	11: 2				7N		G
tpn5	: 4 2	: S77NU02	4: 74SU0	4: 02- U2:	40: : 4U1N	6U2N	DDe
tpn5	: 6 2	47016US6	46- 00U2S	4421: US-	46067U4-	: U7-	DDe
tpn5	: 0 2	4742: USN	40- N0U7-	44- 46U4	40S: - U17	: U4-	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	666U24	0S- UN0	0S6U0N	672U S	- U20	DDe

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Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Pr 5T9 sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
Lr so	2S0 1	627U2:	662U-2	667U-:	6: - U01	- U2N	DDe
Lr so	2SN 1	64- U44	60SU27	60: UN-	66- U1N	2U61	DDe
LdEcmb	6 1				1S1		G
y sM5r wcmb	24 2	11- 26U00	1S177U-:	777- USS	1S: S6U-0	6UN-	DDe
y s5Ms5r wr	: : 2	16: NUN-	147SU24	1460U07	1: - NU7:	6U07	DDe
y nP%eor 5mb	74 1	1SU-N	1SU72	11U22	1SUN4	- U72	DDe
y nP%eor 5mb	7: 1	- UN:	4US-	4U12	4USS	- U40	DDe
y nP%eor 5mb	76 1	4U-	4UNN	4UN2	4U04	- UNN	DDe
y nP%eor 5mb	70 1	- U72	4U2:	4U-7	4U17	: U07	DDe
y nP%eor 5mb	7N 1	- UN0	4US-	4US4	- U7N	2U44	DDe
u r no%b cmb	1: S 1						dDw
u r no%b cmb	1: S 2						dDw
u cdkr P	6S 2	- 0U16	- 4U41	- - U11	- 4UN7	: U72	DDe
8 EnwDEnpmw	- 1 2	- 704U67	- - 61UNN	- - 17U47	- : : 2US2	1SU-2	DDe
8 nTswwcmb	- 7 2	00SSU06	6N0NU-S	6N60U21	014NUN-	6U67	DDe
CEnocmb	1S- 1				114		G
CEnocmb	1S- 2				1S-		G
I ds5ocmb	4: 1				11:		G
I ds5ocmb	4: 2				7:		G
I r P5cmb	N2 1	1U1N	1U-S	2U11	1U6S	27U-4	DDe
I r P5cmb	00 2	47UN0	44US1	44U-7	46US7	0U12	DDe
I r P5cmb	0N 2	12USN	7U74	7U-4	1SU4:	1- UNS	DDe
I cdln5	2N 1	21: U-7	22: U16	22- U-N	221U44	2U-2	DDe
I dgr p	1S0 1	1U17	1U20	1U26	1U24	- U2N	DDe
I dgr p	1S7 1	1U21	1U-6	1U27	1U27	6US1	DDe
I nocmb	2- 2	677U-2	614U-2	6S7U-S	641US:	0U71	DDe
I Tpm5Tcmb	N6 1	- 4: U-2	- : 0U07	- : 1UN4	- : 1U6:	1U00	DDe
I Tpm5Tcmb	NN 1	- : 0UN7	- 0SU-4	- 6NU2:	- 6: U47	1UN2	DDe
I mPmp	- 4 1	N12U-S	41NU7-	- 16U-2	: 1: UN:		DDe
Ar pecmb	1: 7 1				110		G
Ar pecmb	1: 7 2				1S4		G
AEsPmb	2S- 1	SU42	SU4S	SU-N	SU4S	4U7-	DDe
AEsPmb	2S: 1	SU-:	SU-7	SU-7	SU-N	: U07	DDe
Ad5	11N 1	16UN4	1NU46	10UN6	10U02	4U6-	DDe
Ad5cmb	40 1	446US7	46SU24	46- UN7	4: 6U04	2US6	DDe
Rps5cmb	2- N 1	2U07	- US1	2U76	2U72	- U70	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Pr 5T9 sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y swv	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
Vs5soomb	: 1 2	N6UNS	07U-	00U24	N1U17	6U1:	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N7 1				121		G
YTTpomb	N7 2				11-		G
Zc5d	66 2	1- : 2US2	1211U01	117NU26	12: 4USS	6U07	DDe
Zqpdn5omb	7S 1	4U12	4U2N	4U2N	4U2-	2U24	DDe
Zqpdn5omb	71 1	4U14	4U-0	4U27	4U20	2U01	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	10718F44	1008SF8h	107- - F2-	10800FhS	SF40	I I b
c n&mon%	121 1	SF71	SF71	SF7S	SF71	SFh-	I I b
c rsenAq	0h 2	4- F- h	44F- 1	42F12	4- F26	2Fh4	I I b
BarAum	1- h 1	407Fh6	461F84	462F2S	460F86	2F16	I I b
BarAum	1- 0 1	48hF18	4h6Fh-	404F47	402FS6	- FS0	I I b
Ber%lAum	7 1	2F1S	2F27	2F27	2F2-	4F87	I I b
BAsmu&E	2S7 1				11-		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F8h	2Fh0	1F7S	2F11	17FS7	I I b
RaOmAum	1S6 1	SF- 2	1F4h	1F76	1FS-		I I b
RaOmAum	111 1	1F66	1F0h	1F67	1F0S	2F62	I I b
RalqAum	4- 1	2h- 48F21	2hhShF40	240- hF12	2h176F20	1F62	I I b
RalqAum	44 1	2h70hF07	264h0F6S	2h24- F74	2h872F44	2F- 6	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	28F1-	20F46	20F78	20F86	1F26	I I b
Robal&	h7 2	1hF14	14F8-	1hF1h	1hFS4	1F22	I I b
RoI I er	6- 2	60F78	68F21	60F82	68FSS	SF27	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				11-		G
y olmAum	16h 2				1S8		G
DnOAum	11h 1				111		G
DnOAum	11h 2				1S1		G
Don	h4 2	4S4h8F7S	4S6S0FS8	4S1- 7F6h	4S4S1F80	SFh7	I I b
Don	h6 2	- 7466F72	- 86h6F- 8	- 7180F66	- 71S- F66	1FSh	I I b
Don	h0 2	- 01S- F11	- 6276F20	- 6400Fh6	- 662hF64	1F16	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	18SF6-	10hFS1	108F47	108FS4	1Fh7	I I b

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	101F-2	160F21	167F07	167F44	1F2-	I I b
LeaO	2S8 1	180F00	18- F6S	182F82	184F0-	1F44	I I b
LA&EAum	6 1				1S2		G
MagnesAum	24 2	68- hF14	68- SF-8	671- F0S	68h7F04	SF68	I I b
Manganese	hh 2	1S80F4S	1S02F8S	1S81F8-	1S8SF68	SF68	I I b
Mol%bOenum	74 1	0FSh	6F86	0FS0	6F77	1F64	I I b
Mol%bOenum	7h 1	2F82	2F8-	2F81	2F82	SF22	I I b
Mol%bOenum	76 1	- F2h	- F46	- F28	- F- -	- F4h	I I b
Mol%bOenum	70 1	2F72	- FS4	- FS1	2F77	2F10	I I b
Mol%bOenum	78 1	2F86	2F82	2F7S	2F86	1F41	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	- hF0S	- hF8S	- 4F81	- hF44	1Fh4	I I b
PEosI Eorus	- 1 2	1h78F7-	10ShFS4	1h- 7F02	1614Fh6	hF17	I I b
Po&assAum	- 7 2	hh60Fh4	h4S0F1S	hh4SF4h	hhShFS-	1Fh6	I I b
5 EoOAum	1S- 1				1S7		G
5 EoOAum	1S- 2				1S0		G
pqanOAum	4h 1				111		G
pqanOAum	4h 2				1SS		G
pelenAum	82 1	1F1h	SF76	SF72	1FS1	12F26	I I b
pelenAum	00 2	46F16	62F70	42F64	hSFh7	21F40	I I b
pelenAum	08 2	8F78	8F87	7F12	7FSS	1F-1	I I b
pAAqon	28 1	2h1Fh-	2hhF24	246F20	2h1FS1	1F8S	I I b
pAver	1S0 1	SFh8	SFh7	SFh6	SFh8	2F64	I I b
pAver	1S7 1	SF62	SFhh	SFh0	SFh8	6F46	I I b
poOAum	2- 2	244F17	2h1F42	2h1F27	248F70	1F66	I I b
p&ona&um	86 1	188FSS	187FSS	18hF10	180F-7	1FS6	I I b
p&ona&um	88 1	178F47	2SSF81	17hF64	178F-1	1F-S	I I b
pulfur	- 4 1	1827F10	10- 2F04	107- F7-	108hF28		I I b
i erbAum	1h7 1				111		G
i erbAum	1h7 2				1S6		G
i EallAum	2S- 1	SF41	SF4S	SF42	SF41	2F80	I I b
i EallAum	2Sh 1	SF42	SF4S	SF-7	SF4S	2F74	I I b
i An	118 1	0F7h	0F76	8FSh	0F77	SF66	I I b
i A&anAum	40 1	1- 4F4h	1- 6F6h	127FS4	1- - F-8	2F74	I I b
UranAum	2- 8 1	1F77	2FSS	2FS1	2FSS	SF-0	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	0- F1h	0SFh7	02F- 0	02FS4	1FB2	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				118		G
Y&&Aum	87 2				114		G
ZAnq	66 2	- 20F77	- - 2F10	- - 2F12	- - SF06	SF0-	I I b
ZAqonAum	7S 1	2Fh8	2F60	2Fh0	2F61	2FS-	I I b
ZAqonAum	71 1	2F0h	2F6S	2Fh4	2F6-	4F11	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RlAn&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&:T:i Ane:c qduAeO.9	2S2- S0 12:2S91 - 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	1S0S8F41	1ShS0F0-	1S2h7Fh6	1S471F7S	2F14	I I b
c n&mon%	121 1	SF64	SFhh	SFh6	SFh8	7F11	I I b
c rsenAq	0h 2	14F0S	14F8S	1hF11	14F80	1F4-	I I b
BarAum	1- h 1	186Fh6	188F- -	108F11	184F- 4	2F76	I I b
BarAum	1- 0 1	171F10	18hFh0	181FS1	18hF72	2F04	I I b
Ber%lAum	7 1	SF84	SF86	SF8S	SF8-	- F0h	I I b
BAsmu&E	2S7 1				1S7		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F80	1F- 6	1F06	1F66	1hF7S	I I b
RaOmAum	1S6 1	- F66	hF68	4F21	4Fh2		I I b
RaOmAum	111 1	1F60	1F01	1F4-	1F6S	7F28	I I b
RalqAum	4- 1	202- - Fh8	20408F0h	20h0hF1h	20427F16	SF64	I I b
RalqAum	44 1	28hSSF77	27S76F66	20040Fh6	28448F4S	2F- 8	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	18F08	18F60	10F78	18F48	2F- h	I I b
Robal&	h7 2	7F48	7F00	7F- 6	7Fh4	2F24	I I b
RoI I er	6- 2	20F74	20F17	26Fh7	20F24	2F48	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				11S		G
y olmAum	16h 2				1S0		G
DnOAum	11h 1				1S8		G
DnOAum	11h 2				1SS		G
Don	h4 2	27112FS1	2888SF68	20612F14	28h- 4F74	2F8-	I I b
Don	h6 2	28021F8h	28- h0F70	20246F66	281S8F8-	2F0-	I I b
Don	h0 2	26404F81	26- 1- F27	2h226F8h	26SS4F78	2F61	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	- - FS7	- 2F- 7	- 1Fh8	- 2F- h	2F- 4	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S91 - 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	- SF- 6	- SF- 2	- SF12	- SF26	SF4-	I I b
LeaO	2S8 1	- 1Fh1	- 1F22	- SF06	- 1F10	1F21	I I b
LA&EAum	6 1				77		G
MagnesAum	24 2	1166- F11	11- S2F- 1	11S8SF16	11- 48Fh-	2Fh7	I I b
Manganese	hh 2	- 71F62	- 86F68	- 0- FS-	- 8- F08	2Fh1	I I b
Mol%bOenum	74 1	4Fh8	4F46	4F42	4F47	1FB2	I I b
Mol%bOenum	7h 1	1FB0	1F71	1F77	1F72	- F12	I I b
Mol%bOenum	76 1	2FS0	2F1-	2FS7	2F1S	1Fh8	I I b
Mol%bOenum	70 1	1FB4	1F60	1F67	1F0-	hF20	I I b
Mol%bOenum	78 1	1F06	1FB1	1FBS	1F07	1Fh1	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	2hF- 7	26FS8	2hFh-	2hF60	1F44	I I b
PEosI Eorus	- 1 2	17h7F22	1776FBh	21SSFS1	2S18F67	- F61	I I b
Po&assAum	- 7 2	- 720F41	- 847F- 2	- 006F6h	- 8h1F12	1F76	I I b
5 EoOAum	1S- 1				1S0		G
5 EoOAum	1S- 2				1S0		G
pqanOAum	4h 1				1S6		G
pqanOAum	4h 2				78		G
pelenAum	82 1	1F12	1F- 1	SF62	1FS2	- 4F78	I I b
pelenAum	00 2	21F- h	2- F02	1SF0S	18Fh7	- 0F- 2	I I b
pelenAum	08 2	- F01	4F66	- F71	4FS7	12F21	I I b
pAAqon	28 1	176F14	176Fh-	178F2-	176F76	SFh6	I I b
pAver	1S0 1	SF- S	SF- 4	SF- S	SF- 1	0FS4	I I b
pAver	1S7 1	SF27	SF20	SF20	SF28	- F47	I I b
poOAum	2- 2	128FS0	121F64	110F4S	122F- 0	4F- 7	I I b
p&ona&um	86 1	1SSF0-	77F78	70F70	77Fh6	1F44	I I b
p&ona&um	88 1	1S0FB8	1S6F60	1S1F06	1ShF44	- FS0	I I b
pulfur	- 4 1	1221F40	1S1SF44	80- FS4	1S- 4F78		I I b
i erbAum	1h7 1				111		G
i erbAum	1h7 2				1S6		G
i EallAum	2S- 1	SF- S	SF- S	SF- 1	SF- S	1FBh	I I b
i EallAum	2Sh 1	SF- S	SF26	SF27	SF28	6FB4	I I b
i An	118 1	SF0S	SF6-	SF62	SF6h	6Fhh	I I b
i A&anAum	40 1	0hF06	0hF- h	06F- 6	0hFB2	SF60	I I b
UranAum	2- 8 1	1FB6	1FB-	1FB-	1FB4	SF7h	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S91- 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	44F80	4hF5-	4- F64	44Fh1	1F01	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				11-		G
Y&&Aum	87 2				1S-		G
ZAnq	66 2	188F16	180F7S	18SF71	18hF66	2F21	I I b
ZAqonAum	7S 1	1F0-	1F84	1F67	1F0h	4F4S	I I b
ZAqonAum	71 1	1F8-	1F60	1F67	1F0-	hF24	I I b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&or9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Re&n&psml Re9D 9J9	y h SF: 6	t Ra&on9Fsq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 1292SJ16.J2:	t s&sFAe9Nsme9J	15ScC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	Rn&w
cRmAnAm	20 2	1: S7SU6:	17412U65	1: 52- U04	1: 605U67	- U61	l l b
cn&mon%	121 1	SU57	SU02	SU00	SU67	1- U17	l l b
crwenAq	05 2	20U-	27U65	2: U05	2: U5:	4U1S	l l b
BsrAm	1- 5 1	276U41	- - 7U1:	4SSU2-	- 45U20	15U11	l l b
BsrAm	1- 0 1	275U0	- 45U21	4S1U0	- 40U4:	15U17	l l b
Ber%RAm	7 1	1U0	1U5S	1U65	1U51	7U52	l l b
BAmu&E	2S7 1				11S		G
BAmu&E	2S7 2				1S4		G
BromAne	: 1 1						ql w
v sOmAm	1S: 1	1U7:	2U5S	2U05	2U41	16U17	l l b
v sOmAm	1S6 1	1U15	SU62	SU72	SU1-	: 5: U10	l l b
v sOmAm	111 1	2U-	2U62	- U2S	2U01	16U2	l l b
v sRqAm	4- 1	5S466U S	5: S0- U1	67S15U56	571: 5U7	15U05	l l b
v sRqAm	44 1	51: 75U6	6S- 6SU4S	01121U44	61125U7S	15U06	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	- 5 1						ql w
v ERrAne	- 5 2						ql w
v EromAm	52 2	- 4U67	- 6U16	- 4U7	- 5U25	2U26	l l b
v obsR&	57 2	17U1-	17U67	17US6	17U27	1US	l l b
v ol l er	6- 2	42U02	45U55	44U46	44U24	- U22	l l b
t %wl rowAm	156 1						ql w
t %wl rowAm	156 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRnAm	16S 1						ql w
HsOoRnAm	16S 2						ql w
hoRmAm	165 1				11-		G
hoRmAm	165 2				1S5		G
DnOAm	115 1				112		G
DnOAm	115 2				77		G
Don	54 2	4: 6: 5U71	51- SSU2	4: 564U10	47516U70	- U12	l l b
Don	56 2	40: 66U5:	5S57- US2	47167U1	472S7US	2U00	l l b
Don	50 2	4: 05- U56	5S: S- U11	47167U02	47505U46	2U17	l l b
Kr%l &on	: - 1						ql w
LesO	2S6 1	5SU77	54U0	64U2S	56U52	12U14	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9.9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Re na&psml Re9D 9.9	y h SF: 6	t Ra&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129 2SJ16.J2:	t s&sFAe9Nsme9J	15ScC. FU0

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
LesO	2S0 1	40U75	52U71	61U02	54U2S	12U0	I I b
LesO	2S: 1	4: U1	5- U4	62U4:	54U0	12U67	I I b
LA&EAum	6 1				1SS		G
y sMhewAum	24 2	1: 61- U71	17- 75US1	1: 002U50	1: 720U16	2U1:	I I b
y snMsnewe	55 2	0S5US2	042U-	0S0U10	01: U4	2U76	I I b
y oP%bOenum	74 1	4U72	5U66	6U6-	5U04	14U71	I I b
y oP%bOenum	75 1	2U52	2U0	- U42	2U74	15U4S	I I b
y oP%bOenum	76 1	2U05	- U15	- U00	- U22	15U7S	I I b
y oP%bOenum	70 1	2U46	2U7S	- U5-	2U76	1: U10	I I b
y oP%bOenum	7: 1	2U4:	2U76	- U5	2U7-	14U7S	I I b
NeoO%mAum	15S 1						ql w
NeoO%mAum	15S 2						ql w
NAqkeP	6S 2	47US2	5SU17	4: U10	47U1-	2US0	I I b
8EowI Eoruw	- 1 2	1: 72U7-	1755U4	1764U56	17- 0U61	2US1	I I b
8o&swwAum	- 7 2	4541US6	4: 11U02	46S4U5	4652U54	- US4	I I b
CEoOAum	1S- 1				1S7		G
CEoOAum	1S- 2				1S-		G
pqsnOAum	45 1				11S		G
pqsnOAum	45 2				70		G
pe&enAum	: 2 1	SU07	1U22	1U74	1U2	44US4	I I b
pe&enAum	00 2	22U65	- 6U7S	4SU50	- - U:	2: U6	I I b
pe&enAum	0: 2	6U4-	5U06	5U06	5U7:	6U46	I I b
pAqon	2: 1	15- U70	106U7	212U47	1: SU75	16U2	I I b
pAger	1S0 1	SU40	SU56	SU6-	SU56	14U2-	I I b
pAger	1S7 1	SU5-	SU57	SU6-	SU5:	: U06	I I b
poOAum	2- 2	- 1- U05	- - 2U42	- 2SU40	- 22U21	2U7-	I I b
p&onAum	: 6 1	157U10	1: - U1	215U57	1: 6U17	15U17	I I b
p&onAum	: : 1	167U1:	17- U16	220U77	176U0:	15US-	I I b
pu&ur	- 4 1	2050U4	14: : U5-	5: 1U57	1221U57		I I b
i erbAum	157 1				112		G
i erbAum	157 2				1S4		G
i EsPAum	2S- 1	SU40	SU5S	SU50	SU52	1SU17	I I b
i EsPAum	2S5 1	SU45	SU51	SU5:	SU51	1- US4	I I b
i A	11: 1	1U14	1U4S	1U6:	1U41	17US1	I I b
i A&snAum	40 1	62U01	02U17	: : U6	04U57	10U05	I I b
RrsnAum	2- : 1	2U5:	2U7S	- U5	2U74	1- U14	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Ae na&psml Re9D 9J9	y h SF: 6	t Ae a&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 1292SJ16.J2:	t s&sFAe9Nsme9J	15Sc C. FUD

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9 v onqU	v onqCpt	RnA&w
VsnsOAum	51 2	07U5:	: - U54	: 1U7S	: 1U6:	2U44	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	: 7 1				116		G
Y&&Aum	: 7 2				1S7		G
ZAnq	66 2	2- 7U1	256U61	245U00	240U4S	- U44	l l b
ZAqonAum	7S 1	1U6S	1U5	2U56	1U4	12U52	l l b
ZAqonAum	71 1	1U54	1U77	2U5	1U76	2SU4:	l l b

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Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S20	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S20	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb dCcmb	20 2	. 1606F22	. SSN1FS2	. 1S6. F7J	. SJ4SFNN	1F. N	DDe
q CTdb 5Ch	121 1	. SNF. 6	4N2F7N	. 1SF52	. SSF72	7F11	DDe
q pwr Ccd	0. 2	. 1JF. .	. 1JFS1	. 20FS1	. 21FN6	SFN6	DDe
Bspcmb	17. 1	2. N7FJ2	24. 0FSS	2. N1F46	2. 4SF0J	2FN6	DDe
Bspcmb	170 1	2. 66FS7	242. F67	2. 47FN0	2. 11FN.	7FSS	DDe
Br phPmb	J 1	4N0F4S	46JF17	404F67	400FS.	1FJ0	DDe
Bcwb mT%	2SJ 1				J0		E
Bcwb mT%	2SJ 2				J6		E
Bp5b dCr	N1 1						dDw
3 sob cmb	1SN 1	. 12FSN	4N. F02	. 1JF6S	. S. FNS	7F. 2	DDe
3 sob cmb	1S6 1	. S7F2.	40. F. J	. 21FSJ	4JJFJN	4F. J	DDe
3 sob cmb	111 1	. S7F66	4N1F6J	. S4F02	4J6F6J	2F62	DDe
3 sPdcmb	47 1	2. 4. . 1FN7	242462F07	246J7SF. 1	240JN1F6J	2F46	DDe
3 sPdcmb	44 1	24NNNNF60	276. 16F04	276J6NF40	24S0J1F2J	2FJ1	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %P5pdCr	7. 1						dDw
3 %P5pdCr	7. 2						dDw
3 %p5b cmb	. 2 2	4N0FS6	402F. 2	4JSFJ1	4N7F. S	2FS1	DDe
3 5esFT	. J 2	4N1F4.	460F4.	4J7F6N	4NSFN6	2F07	DDe
3 5DDr p	67 2	. S1SF77	4J. 6F06	. 1SJF0J	. S2. F62	1F. .	DDe
&hwDp5wcmb	1. 6 1						dDw
&hwDp5wcmb	1. 6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PdCcmb	16S 1						dDw
Hso5PdCcmb	16S 2						dDw
K5Pb cmb	16. 1				1S.		E
K5Pb cmb	16. 2				1S2		E
tCocmb	11. 1				JN		E
tCocmb	11. 2				J2		E
tp5C	. 4 2	12644SF. 0	1270JJF1.	12J21. F01	1264N. F14	2F14	DDe
tp5C	. 6 2	1261N4FSS	12. J16F1.	12N676F77	126J12F16	1F1N	DDe
tp5C	. 0 2	12JSN4FN6	12471JF2.	171722F04	12N242F2N	2F0J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	2. JNF. J	247SF11	24. JF. 2	24J6FS0	7F61	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S20	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S20	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - F5

8spsb r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	26SSF6J	242NF. 0	24SSFN6	2406F01	4F70	DDe
Lr so	2SN 1	2. 07F01	2472F21	244. F40	24N7FNS	7F1.	DDe
LdP%mb	6 1				N0		E
y sMOr wmb	24 2	2. N. 64FN1	2. 16JJF02	26. SJSF47	2. N4. 1F6.	2F. J	DDe
y sOMsOr wr	. . 2	. S04F. 7	. S20FN1	. 101FN0	. SJ1F41	1F44	DDe
y 5Pheor Omb	J4 1	. S67FSJ	4N7NFS1	4N1. F44	4JS. F. 1	2F0J	DDe
y 5Pheor Omb	J. 1	. S. . FJ4	40J0F6J	4N4JFJ7	4JS1F1J	2F0J	DDe
y 5Pheor Omb	J6 1	. S76F. S	4N61FS2	4J47F. N	4J40FS7	1F00	DDe
y 5Pheor Omb	J0 1	4J01F7J	4N7JFJ.	4J2JF60	4J17F60	1F70	DDe
y 5Pheor Omb	JN 1	4JJ. FS1	400NF6S	4J6. FN4	4J17F1.	2F7J	DDe
ur 5ohb omb	1. S 1						dDw
ur 5ohb omb	1. S 2						dDw
udfr P	6S 2	4J7F0N	4N. F7.	4J0F0.	4J2F7S	1F2J	DDe
8 %5wD%5pmw	71 2	J00. F1.	J407FN0	1SS70FN.	J062F2J	2FNJ	DDe
8 5Tswwmb	7J 2	17SNSJF06	12. 1. NF76	12N440F66	12N17NF. J	2F22	DDe
v %5omb	1S7 1				J4		E
v %5omb	1S7 2				J4		E
I dsOomb	4. 1				JN		E
I dsOomb	4. 2				J7		E
I rPOmb	N2 1	. S7FSJ	402FS4	4N1F. 2	4N. F. .	7F2N	DDe
I rPOmb	00 2	4N4F6.	46NF. 7	. S6F72	4N6F. S	7FJS	DDe
I rPOmb	0N 2	. 2JFN0	. 24F16	. 41F. 0	. 71FN0	1F60	DDe
I dd5C	2N 1	. 2. FS.	. S4F60	. 17FJ0	. 14F. 6	1FJN	DDe
I dgr p	1S0 1	4J. F2N	4N6F26	. 12FS4	4J0FN6	2F67	DDe
I dgr p	1SJ 1	4J. FJJ	40SFN.	4J1F60	4N6F10	2F06	DDe
I 5omb	27 2	261JJ. F06	2. 11. 0FS0	260600F6S	26S206FN1	7F22	DDe
I Tp5CTomb	N6 1	12024F46	11N2SF21	12SN2F21	122SNFJ6	7FN1	DDe
I Tp5CTomb	NN 1	1247NF. 2	11N. 2FN7	12172F0J	12141F7N	2F41	DDe
I mPVmp	74 1	JJ26FN1	NNSJF. 1	NJ. SFJ7	J22JFSN	6F. J	DDe
Ar pemb	1. J 1				1S7		E
Ar pemb	1. J 2				1S1		E
A%sPmb	2S7 1	. 2NFJ0	. S2F17	4JJF64	. 1SF2.	7F1J	DDe
A%sPmb	2S. 1	. 10F02	4N0F4N	4J6F. N	. SSF. J	7F1S	DDe
AdC	11N 1	. 16FS0	4NNF4J	. S4FS4	. S2FN6	2F0.	DDe
AdsOomb	40 1	. 10. F. 4	4N04FSS	4N. 0F60	4J6JFS0	7F6S	DDe
RpsOomb	27N 1	. S2F4N	40JF0N	4J7F12	4J1F0J	2F72	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S20	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S20	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	. 1 2	. 14F6J	. SJF2J	. 27F0J	. 1. FJ2	1F42	DDe
YTTr pe omb	102 1						dDw
YTTr pe omb	102 2						dDw
YTTr pe omb	106 1						dDw
YTTr pe omb	106 2						dDw
YTTpomb	NJ 1				1SS		E
YTTpomb	NJ 2				J.		E
ZdCd	66 2	4N. SF71	4607F0S	4J14F. 6	4N12FN6	2F. J	DDe
Zqpd5Comb	JS 1	4JJFJS	40NFJ.	4N2F76	4N0FS0	2F71	DDe
Zqpd5Comb	J1 1	40JF0J	4. 1F. 6	462FJ.	464F06	7FS6	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
AwNu iniNu	2072	- .- 1	1.- y	2.44	2.- P	4S.2-	ppm
Antiu onh	12171	S.24	S.1y	S.- S	S.24	22.1y	ppm
Aeabnic	0572	S.S5	S.SS	S.S5	S.S-	0y.P2	ppm
BJeiNu	1- 571	S.2S	S.1S	S.- 2	S.21	51.Py	ppm
BJeiNu	1- 071	S.2-	S.1S	S.2P	S.2S	45.50	ppm
BbehwiNu	y71	S.14	S.SP	S.1-	S.12	2P.22	ppm
Biau Nt%	2Sy71				y5		E
Biau Nt%	2Sy72				1S-		E
Beou inb	P171						cpa
3 Jdu iNu	1SP71	S.11	7S.Sy	S.14	S.S5	24S.Py	ppm
3 Jdu iNu	1S671	74.61	75.2-	70.- 4	75.0-		ppm
3 Jdu iNu	11171	S.S5	S.S5	S.S6	S.S6	- .PP	ppm
3 JwiNu	4- 71	2y.PS	1- .6P	5S.P5	- 1.44	5y.2P	ppm
3 JwiNu	4471	11S.12	6P.P2	115.- 1	yP.SP	25.y0	ppm
3 Jemon	1271						cpa
3 Jemon	1272						cpa
3 %weinb	- 571						cpa
3 %weinb	- 572						cpa
3 %eou iNu	5272	S.S5	S.S5	S.Sy	S.S6	- 5.yP	ppm
3 omJw	5y72	S.S-	S.S1	S.SS	S.S1	126.S6	ppm
3 oppbe	6- 72	1.21	S.6P	S.60	S.P5	- 6.Sy	ppm
DhapeoaiNu	15671						cpa
DhapeoaiNu	15672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
GJdowiniNu	16S71						cpa
GJdowiniNu	16S72						cpa
Howu iNu	16571				y6		E
Howu iNu	16572				1S-		E
IndiNu	11571				y5		E
IndiNu	11572				yy		E
Ieon	5472	6.40	5.1y	- .1y	4.y5	- - .- P	ppm
Ieon	5672	0.P6	2.0P	6.14	5.5y	46.1y	ppm
Ieon	5072	0.P5	- .22	2.1-	4.4S	6P.y4	ppm
Kehpton	P- 71						cpa
LbJd	2S671	S.- 4	S.2S	S.- 2	S.2y	25.04	ppm

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LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
LbJd	2S071	S.- -	S.26	S.2y	S.2y	12.- S	ppm
LbJd	2SP71	S.- 6	S.26	S.- 6	S.- -	1P.44	ppm
Lit%Nu	671				P0		E
MJgnbaiNu	2472	11.yP	5.02	0.02	P.40	- 0.0S	ppm
MJngJnbab	5572	S.25	S.1-	S.12	S.16	44.21	ppm
MowmdbnNu	y471	1.S2	S.4S	S.y0	S.PS	4- .25	ppm
MowmdbnNu	y571	S.05	S.- y	S.PP	S.60	- 0.P-	ppm
MowmdbnNu	y671	S.01	S.4S	1.S4	S.02	45.20	ppm
MowmdbnNu	y071	S.06	S.4S	S.yS	S.6y	- P.10	ppm
MowmdbnNu	yP71	S.02	S.4-	S.yS	S.6y	- 5.1S	ppm
8 bodhu iNu	15S71						cpa
8 bodhu iNu	15S72						cpa
8 ickbw	6S72	S.S5	S.SS	S.S4	S.S-	0y.Sy	ppm
I %ap%eNa	- 172	704.0S	704.y2	765.6-	701.05		ppm
I otJaaiNu	- y72	0S.- S	51.05	56.00	5y.6S	16.1S	ppm
R%odiNu	1S- 71				y4		E
R%odiNu	1S- 72				1S-		E
r cJndiNu	4571				y2		E
r cJndiNu	4572				y4		E
r bwbniNu	P271	7S.- 0	7S.- S	S.15	7S.10		ppm
r bwbniNu	0072	7S.- P	7S.- P	7S.- P	7S.- P		ppm
r bwbniNu	0P72	S.- 1	7S.- -	S.12	S.S-	1S11.1S	ppm
r iwicon	2P71	1.Sy	S.4S	S.- P	S.62	64.y5	ppm
r iwbe	1S071	S.S5	S.S4	S.S2	S.S4	- - .52	ppm
r iwbe	1Sy71	S.S4	S.S4	S.S4	S.S4	2.SS	ppm
r odiNu	2- 72	1- P.0y	120.65	12- .14	12y.P6	6.2S	ppm
r teontiNu	P671	1.- 6	S.6y	1.y1	1.- 2	46.2-	ppm
r teontiNu	PP71	1.15	S.5y	2.S5	1.26	5P.- 4	ppm
r NifNe	- 471	162S.- 4	702.62	71PS.4y	455.04	221.62	ppm
TbemiNu	15y71				y5		E
TbemiNu	15y72				1S-		E
T%JwiNu	2S- 71	S.26	S.2-	S.2-	S.24	P.- P	ppm
T%JwiNu	2S571	S.2y	S.22	S.22	S.24	16.56	ppm
Tin	11P71	S.S5	S.S1	S.SS	S.S2	115.PP	ppm
TitJniNu	4071	S.55	S.- S	1.S-	S.6-	5P.y0	ppm
UeJniNu	2- P71	S.S5	S.S-	S.S0	S.S5	40.y1	ppm

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LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
VJnJdiNu	5172	S.S2	S.SS	S.S1	S.S1	y6.6-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				y4		E
YtteiNu	Py72				yP		E
Zinc	6672	S.2-	S.- 4	S.16	S.24	- 6.Sy	ppm
ZieconiNu	yS71	S.S4	S.S1	S.S5	S.S4	56.52	ppm
ZieconiNu	y171	S.S-	S.S-	S.14	S.S0	y0.6y	ppm

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb A CAmb	2072	1SS	1S6	1S2	1S-	-FS6	ql w
c C&b nC9	12171	S	N	10	N	1SSFS2	ql w
cpwr CAq	0y72	S	-	2	2	J1F6y	ql w
BspAmb	1-y71	42	42	yS	44	1SFN2	ql w
BspAmb	1-071	60	yN	yS	yN	14F2J	ql w
Br p9PAmb	J71	2J	2-	-1	2N	16F-J	ql w
BAmb m&a	2SJ71	6-6N4yy	6-N6SS6	64261-1	6-J-y-1	SF46	ql w
BAmb m&a	2SJ72	-112-1S	-11220S	-Sy611-	-SJ-y64	1FSy	ql w
Bpmb AOr	N171	4y4-	44J2	4-SJ	444N	2F06	ql w
. sOb Amb	1SN71	21	10	10	1N	1-F-S	ql w
. sOb Amb	1S671	42J2	-Ny1	4S26	4Sy6	yF4J	ql w
. sOb Amb	11171	41J	-0N	4S-	4SS	yF21	ql w
. sPqAmb	4-71	246	2yy	26S	2y4	2F04	ql w
. sPqAmb	4471	2N4NS	2N2-y	2N64N	2N4y4	SF0-	ql w
. spenC	1271	2-6-N21	2-y2J21	2-111J-	2-4264y	1F1J	ql w
. spenC	1272	2N60S	-S6y0	2J440	2JyJ1	-F-N	ql w
. hPmpAOr	-y71	J6S-4	J2621	NJJ2N	J2N61	-F-S	ql w
. hPmpAOr	-y72	0SS	00y	642	0S6	JF40	ql w
. hpmb Amb	y272	1S-S	1SJ0	12-S	111J	JF1S	ql w
. nesP&	yJ72	6-	40	4-	y1	2SFJ6	ql w
. nI l r p	6-72	yyS	410	4J-	4N0	1-F0y	ql w
t 9wl pnwAmb	1y671	10	10	N	14	-4F60	ql w
t 9wl pnwAmb	1y672	-	S	-	2	N6F6S	ql w
EpeAmb	16471	yS	yS	60	y6	10F-2	ql w
EpeAmb	16472	0	20	20	2S	y0F0-	ql w
GsOnFACAmb	16S71	110	110	1SS	111	NF66	ql w
GsOnFACAmb	16S72	12S	14-	120	1-S	JF2y	ql w
HnPb Amb	16y71	JSN2S01	JS6Ny0N	NJ0J242	JS4-2J0	SF62	ql w
HnPb Amb	16y72	-J60424	-JJJS66	-J0y164	-JNSyy2	SF41	ql w
DOCAmb	11y71	666060S	661SNyJ	60S4-40	666SJyJ	SF01	ql w
DOCAmb	11y72	J616--	Jy2-yS	J6-22-	JyJS6J	SF61	ql w
DpnC	y472	--J	4S6	-2N	-y0	11F00	ql w
DpnC	y672	202N	2NSS	2010	204N	1F6y	ql w
DpnC	y072	N-	122	1y6	12S	-SFS-	ql w
Kp9l &aC	N-71	26S	2S6	22y	2-S	11FN4	ql w
LrsO	2S671	6y6	yJ4	0S6	6y2	NFy4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	y--	yJ4	y44	yy0	yFN4	ql w
LrsO	2SN71	2622	2y2N	26--	2yJy	2F24	ql w
LA&nAmb	671	26--460	2yNN00S	2yN6N6S	26S-S-2	1FS1	ql w
RsgOr wAmb	2472	yS	42	1--	0y	60FyJ	ql w
RsOgsOr wr	yy72	40	y-	-S	4-	20F0-	ql w
RnP9eOr Omb	J471	142	60	N-	J0	4SFyS	ql w
RnP9eOr Omb	Jy71	--	10	N	1J	6yF40	ql w
RnP9eOr Omb	J671	yN	yS	12y	0N	y2FNy	ql w
RnP9eOr Omb	J071	S	42	S	14	10-F21	ql w
RnP9eOr Omb	JN71	2y	--	60	42	y2FJ2	ql w
urnO9b Amb	1yS71	0	S	2S	J	114Fyy	ql w
urnO9b Amb	1yS72	S	0	S	2	10-F21	ql w
uAqkr P	6S72	yS	-0	y-	40	1NFNJ	ql w
8hnwl hnpmw	-172	-SN	2N-	160	2y-	2JFJ1	ql w
8n&swwAmb	-J72	1S2S4	1S2N0	1S2J6	1S262	SF4J	ql w
5hnOAmb	1S-71	66y660S	6644-1-	60-0-01	660J4y1	SF06	ql w
5hnOAmb	1S-72	-1-20y0	-114SN2	-SJ0104	-114601	SFy0	ql w
3qsCOAmb	4y71	4412S22	420N04N	4-0224N	4-y4--J	1Fy0	ql w
3qsCOAmb	4y72	14JyJ0	14JS6N	140J26	14NN6-	SFy0	ql w
3r P CAmb	N271	71S	-1	--	1N	1-4FJJ	ql w
3r P CAmb	0072	S	-	S	1	10-F21	ql w
3r P CAmb	0N72	10	12	14	14	10Fy6	ql w
3 A&nC	2N71	10N0S6	104y64	106S4J	10644S	1F1J	ql w
3 A r p	1S071	yN	yN	110	0N	4-F S	ql w
3 A r p	1SJ71	2y	yS	42	-J	-2F0-	ql w
3nOAmb	2-72	2SJ24	2S1y6	1JJN1	2S-y4	2F46	ql w
3&nC&Amb	N671	4yN	4SN	4N-	4yS	NF4J	ql w
3&nC&Amb	NN71	JN-	62y	0yN	0NJ	22FJ6	ql w
3mPmp	-471	-1401-	-1S4SN	-112N0	-121-6	SF0-	ql w
irpeAmb	1yJ71	J1N-6Sy	JS01N1N	J4y1621	J2-y6N1	2F11	ql w
irpeAmb	1yJ72	-N6J010	-J06S--	-J1241J	-J1J-JS	1F-0	ql w
ihsPAmb	2S-71	yS	yS	--	44	21F66	ql w
ihsPAmb	2Sy71	1yS	2SS	2SN	1N6	16FJy	ql w
iAC	11N71	1S60	110y	12SN	11yS	6F44	ql w
iA&sCAmb	4071	10y	2SN	142	10y	1JFSy	ql w
MpsCAmb	2-N71	2y	2y	N	1J	4JFyS	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sU A P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	y172	1-	10	2-	1N	2NF64	ql w
Y&&peAmb	10271	yS	42	N-	yN	-0FNS	ql w
Y&&peAmb	10272	2N	-J	44	-0	22FJ1	ql w
Y&&peAmb	10671	140y	1460	14SN	14yS	2Fy1	ql w
Y&&peAmb	10672	1S24-	1S2y4	J01y	1SS01	-FS6	ql w
Y&&pAmb	NJ71	122066J4	11JyS-y2	1216-206	121-S1S0	1F-0	ql w
Y&&pAmb	NJ72	12066J4	126Jyy-	12N1600	120yJ0y	SF4N	ql w
ZACq	6672	120	1-S	1--	1-S	2Fy0	ql w
ZAqnCAmb	JS71	40y	4--	4yS	4y-	4F6-	ql w
ZAqnCAmb	J171	1--	12y	--	J0	y0FS0	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	922	901	911	9-C	-F41	cps
Antimony	12171	960S	9S-0	9162	9289	-F61	cps
Arsenic	0C72	1C6	1C4	126	14C	11FC4	cps
Barium	1-C71	1S-C4	9912	90-0	1SSS1	-F18	cps
Barium	1-071	10480	2SS4S	18-96	18641	6F94	cps
Beryllium	971	1466	1C49	1C16	1C1S	2F0C	cps
Bismuth	2S971	6-C6669	6-C0C1S	6-81218	6-6C1-2	SF22	cps
Bismuth	2S972	-S612C0	-14-868	-S8SS6S	-S9CS62	1F4S	cps
Bromine	8171	4C84	42C9	42-4	4-C9	4F48	cps
. admium	1S871	1SS	1-8	121	119	1CF0-	cps
. admium	1S671	-0-4	4426	-8C9	4SS6	9F2S	cps
. admium	11171	14--	1C6-	1C9-	1C-S	CFC8	cps
. alcium	4-71	0S61	02-8	0208	019-	1F61	cps
. alcium	4471	14S80C	14--S4	1428S2	142-20	SF9S	cps
. arbon	1271	2-46S90	2-S9688	228904-	2-1C106	1F2-	cps
. arbon	1272	29S46	29898	29-88	29444	1F46	cps
. hlorine	-C71	98-41	9-6-C	9--42	9C1S6	2F9C	cps
. hlorine	-C72	010	6CS	08-	010	9F-S	cps
. hromium	C272	4S64	4241	4S00	4120	2F-8	cps
. obalt	C972	204S	28S0	2680	204C	2F19	cps
. opper	6-72	4061	4604	4604	40S-	1FS6	cps
Dysprosium	1C671	S	S	10	6	10-F21	cps
Dysprosium	1C672	S	-	1S	4	114F6S	cps
Erbium	16471	0C	2C	60	C6	48F22	cps
Erbium	16472	10	-S	20	24	28F-8	cps
Gadolinium	16S71	110	0C	60	86	-1F11	cps
Gadolinium	16S72	00	1SS	12-	1SS	2-F--	cps
Holmium	16C71	9S2216C	896C622	9SS08-9	8998C42	SF--	cps
Holmium	16C72	-92946C	4SS8C09	-90CC89	-901211	1FSS	cps
Indium	11C71	66206-2	6C42226	6C91146	6C80SS2	SF6C	cps
Indium	11C72	96610-	96C9C4	969844	960-2-	SF2-	cps
Iron	C472	-928	-0C1	-92-	-860	2F61	cps
Iron	C672	6C12S	64189	64220	64C12	SFB2	cps
Iron	C072	1CC6	1011	1602	1646	4F92	cps
Krypton	8-71	2CS	2CC	2-S	24C	CF4S	cps
Lead	2S671	CSC0	C1-4	CS18	CS0S	1F10	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	4C09	424S	4-9C	44SC	-F8C	cps
Lead	2S871	2SS9C	2S404	196C6	2SS0C	2FS4	cps
Lithium	671	2C966SC	264C22C	2629011	262-840	SF9C	cps
Ragnesium	2472	C60-0	C0899	C09CS	C0C29	1F19	cps
Ranganese	CC72	81S	8S-	0S0	00-	0F48	cps
Rolybdenum	9471	99C4	1S146	1S496	1S198	2F0S	cps
Rolybdenum	9C71	12C98	120-9	121-9	12492	2FC1	cps
Rolybdenum	9671	1-949	14224	1-682	1-9C2	1F94	cps
Rolybdenum	9071	0686	0469	00S2	0619	1F01	cps
Rolybdenum	9871	2S98-	19C22	2S2C0	2S2C4	-F61	cps
Neodymium	1CS71	1-	1-	2S	16	24F06	cps
Neodymium	1CS72	-	-	-	-	SFSS	cps
Nickel	6S72	8-0	88S	89-	80S	-F41	cps
Phosphorus	-172	20C	2--	-42	28-	19F29	cps
Potassium	-972	4C94S	4CCC6	4-906	4C1C8	2F-1	cps
5hodium	1S-71	66SC-0C	66486S9	661-044	6622C06	SF-C	cps
5hodium	1S-72	-186C4-	-144484	-1S9846	-1469C8	1F22	cps
3candium	4C71	4-8-924	42-118C	42C8C66	429122C	1F9S	cps
3candium	4C72	146-88	149189	144149	146C0C	1F02	cps
3elenium	8271	C16	4-S	49C	48S	9F-C	cps
3elenium	0072	1S	2S	1-	14	-CF26	cps
3elenium	0872	C-	0-	C6	61	10F08	cps
3ilicon	2871	211182	211-00	21SS69	21S806	SF-	cps
3ilver	1S071	6-4-	604-	6000	6621	-F64	cps
3ilver	1S971	C926	6-C2	6S-C	61S4	-F62	cps
3odium	2-72	1222S2	1214C-	121-20	121661	SF-9	cps
3trontium	8671	18SS	10C8	1060	100C	1F24	cps
3trontium	8871	1-C-2	1292-	12C2-	12992	-F91	cps
3ulfur	-471	-1-0C1	-1CC60	-10-44	-1CCC4	SFC0	cps
Terbium	1C971	9160021	9-S0921	924606S	924S8S1	SF06	cps
Terbium	1C972	-91-9C2	-944299	-892-4C	-91686C	SF60	cps
Thallium	2S-71	C46S	C1S1	CS-4	C198	4F4S	cps
Thallium	2SC71	1289S	1-S6C	1-2C0	1-S01	1F41	cps
Tin	11871	19048	1992-	2S-24	19998	1F48	cps
Titanium	4071	-0-4	-C84	-0S1	-60-	2F1C	cps
Mranium	2-871	10988	1929S	10902	18410	4F11	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	C172	C614	C4C1	C- - 4	C460	2FC0	cps
Ytterbium	10271	60	0C	C8	60	12FCS	cps
Ytterbium	10272	22	6	28	19	62F4-	cps
Ytterbium	10671	1642	148-	122C	14CS	14FC1	cps
Ytterbium	10672	1S180	90S4	9- S-	90- 2	4FCC	cps
Yttrium	8971	118614C6	11891S44	1100- SS4	118418- C	SFC2	cps
Yttrium	8972	1288640	1206699	1280C1-	1284280	SFC1	cps
Zinc	6672	0- S	01S	08-	041	CF12	cps
Zirconium	9S71	06- 6	809C	0- 20	0919	9F00	cps
Zirconium	9171	10SS	1060	1942	18S-	6F92	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb A C A mb	2072	4-J2-	4-49-	4-0J2	4-JN9	SF-	ql w
c C&b nCy	12171	249944	2444N-	24J--6	246JNN	1F19	ql w
cpwr CAq	0J72	692S	6NN9	6N19	6N06	SF0J	ql w
Bsp A mb	1-J71	2666N4	20SJN9	2690-9	269SS4	SF06	ql w
Bsp A mb	1-071	4004J6	40904N	400S0-	40NS92	SF-S	ql w
Br pyP A mb	971	021-J	02S-S	02-N0	021N4	SF2J	ql w
B A mb m&a	2S971	JJ2NNJN	6-4S-N9	6200299	6S4NN49	0F46	ql w
B A mb m&a	2S972	-S11N61	294S9-9	291046-	29J60J4	1F66	ql w
Bpmb A Or	N171	4210	4192	4SN4	416J	1F0S	ql w
. sOb A mb	1SN71	J6SJ	JJ22	J-S9	J409	2F09	ql w
. sOb A mb	1S671	1S262	11--N	1S06-	1S0NN	4F99	ql w
. sOb A mb	11171	6-NSJ	6--S9	6J2SJ	641S0	1FJ-	ql w
. sP q A mb	4-71	N219-	N16J6	N19N-	N1944	SF-	ql w
. sP q A mb	4471	1--S49S	1-2-6S1	1-J-9NN	1--6S26	1F19	ql w
. spenC	1271	24949-S	2J64494	2J2J262	2J2N229	1F-N	ql w
. spenC	1272	-14S9	-12SS	-S92J	-110N	SF0N	ql w
. hP mp A Or	-J71	1-JS94	1-0SJ-	1-06NJ	1-661S	SF99	ql w
. hP mp A Or	-J72	11--	1142	NJN	1S4J	1JF44	ql w
. hpmb A mb	J272	064-S	0JN60	04416	0JJ01	1F-N	ql w
. nesR&	J972	1-6NN4	1--190	1-4002	1-49J1	1F-0	ql w
. nI l r p	6-72	11S-9-4	1S9JJS1	1SN0906	1S9JNS-	SF0-	ql w
t ywl pnw A mb	1J671	2J	10	10	19	24F0-	ql w
t ywl pnw A mb	1J672	10	-	1S	1S	66F0S	ql w
Epe A mb	16471	60	N-	--	61	41F60	ql w
Epe A mb	16472	0	20	-S	21	J9F00	ql w
GsOnF A C A mb	16S71	0J	110	42	0N	4NF-1	ql w
GsOnF A C A mb	16S72	110	12-	1S-	114	NF9S	ql w
HnP b A mb	16J71	NS-SJ02	N624-2-	NNJ610-	NJS-6N9	JFS1	ql w
HnP b A mb	16J72	-916J-J	-N6N1JN	-N-NSN6	-N0426S	1FS2	ql w
DDO A mb	11J71	JNS1JSJ	6421416	6-91J01	62S4N-1	JF6-	ql w
DDO A mb	11J72	9--246	91NN64	9SJ-26	919146	1FJ2	ql w
DpnC	J472	10JS1J	10014S	10419-	10J4JS	SFN0	ql w
DpnC	J672	--204JJ	--J-SJ9	--J-N16	--44000	SF4J	ql w
DpnC	J072	N149-	0N6SS	091J-	0904N	1F9-	ql w
Kpyl &aC	N-71	244	242	249	24J	1F-J	ql w
LrsO	2S671	116J004	11416NS	1161621	11J6-JN	1F11	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Cr&usb r :	8N
. PA C&3sb l P D :	3S-	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	999016	1S1S1JN	1SS-J0N	1SS44N4	SFJ-	ql w
LrsO	2SN71	4N0JS41	4N122S-	4NN41-6	4NJ0120	SFN1	ql w
LA&nAmb	671	2-JS24S	2J4J46S	2J-4422	24060S0	4F4-	ql w
RsgOr wAmb	2472	61N9N-	6144N4	6S04J2	61-64S	SF9J	ql w
RsOgsOr wr	JJ72	-N4J42	-00N66	-009NS	-NS129	1FS1	ql w
RnPyeOr Omb	9471	94J40S	9J206J	94420J	940JS-	SF49	ql w
RnPyeOr Omb	9J71	1-01-SS	141J01-	1421406	14S2N-S	1F96	ql w
RnPyeOr Omb	9671	1J-9-NS	1J49S4J	1JJ169S	1J460SJ	SF42	ql w
RnPyeOr Omb	9071	NJ09N-	NJ-124	NJ4262	NJJ12-	SF-S	ql w
RnPyeOr Omb	9N71	226NS-4	22460N0	2240--9	22J4SJ-	SFJ4	ql w
urnOybAmb	1JS71	2S	2S	--	24	-1F49	ql w
urnOybAmb	1JS72	0	-	-	4	4-F4S	ql w
uAqkrP	6S72	-NNS6	-0N40	-0904	-N2S9	1F-6	ql w
8hnwl hnpmw	-172	2-J9	2-N4	24J9	24SS	2F10	ql w
8n&swwAmb	-972	194209	1916S2	194S92	19--2J	SF00	ql w
5hnOAmb	1S-71	JNSN1JN	6J42166	644S-1S	626-J4J	6F-J	ql w
5hnOAmb	1S-72	-12NN-6	-S-S94-	294-2J4	-S-4-4J	-FS6	ql w
3qsCOAmb	4J71	-014-N4	41J-JN0	41-4121	4SSS690	6F2S	ql w
3qsCOAmb	4J72	1-9409	1-9126	1414N6	14SS-S	SF91	ql w
3rP CAmb	N271	JS0N	J22-	4N0N	JS6S	-F42	ql w
3rP CAmb	0072	19-	1-0	12-	1J1	24F6S	ql w
3rP CAmb	0N72	J-N	J6-	J9S	J64	4F61	ql w
3A&qnC	2N71	-1J4JSS	-S0J44S	-1-266S	-12SN60	1F-1	ql w
3A&rp	1S071	-4SJ21	-4-6-S	-44461	-42N01	SF61	ql w
3A&rp	1S971	-2J69J	-2S600	-19JJ-	-2190J	1FS2	ql w
3nOAmb	2-72	1149690	1129N20	1129169	11-62-1	1FS-	ql w
3&nC&Amb	N671	1N09-42	1N96N9J	1N0-140	1NN-12N	SF6J	ql w
3&nC&Amb	NN71	161SNN44	164J114N	1J9J499N	1610166-	1FJ0	ql w
3mPmp	-471	-4-J-0	--9699	-4S-S4	-411NS	SF6S	ql w
irpeAmb	1J971	N24NS90	912SJ22	9SS9116	N092J0N	JF4S	ql w
irpeAmb	1J972	-NJJ021	-NS0S--	-09JJJJ	-N194-6	SFN4	ql w
ihsPAmb	2S-71	2NS0N-	200-91	2006S9	20NJ94	SF6N	ql w
ihsPAmb	2SJ71	606-6-	64014-	66-92N	66240N	2F21	ql w
iAC	11N71	2S9JJ0	2S002N	2S64-1	2S09SJ	SF06	ql w
iA&sCAmb	4071	-0S-42	-022J6	-0-1S1	-019SS	SF-N	ql w
MpsCAmb	2-N71	9N6S21	90NS-4	9N4462	9N2N-9	SF4-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	D Dw&pmb Cr &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sU A P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	J172	J62N0	J04N1	J6622	J6090	1FSN	ql w
Y&pe Amb	10271	60	0J	JN	60	12FJS	ql w
Y&pe Amb	10272	--	2N	2N	-S	1SFN1	ql w
Y&pe Amb	10671	2-J9	21JS	2J0J	2-61	9FSS	ql w
Y&pe Amb	10672	90N2	966J	94-0	962N	1FN2	ql w
Y&pe Amb	N971	1S16JJ02	110JSNN-	114J49NJ	1112-N1-	0FJN	ql w
Y&pe Amb	N972	126-J-1	1221600	119N4SN	1220N02	2F69	ql w
ZACq	6672	1-6J24	1-J0NS	1-4S92	1-J46J	SF92	ql w
ZAqnCAmb	9S71	429024	4-N46-	4--9N2	4-4SJ6	1FS1	ql w
ZAqnCAmb	9171	90S21	96J2J	90-1J	969J-	SF41	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	1S-4S5	1S165-	1S15-1	1S2190	1.S-	cpw
Antimony	12171	5J9J15	61614S	6S956S	6S5102	2.26	cpw
Arwenic	0572	16-92	15J61	15092	16S15	2.S5	cpw
Bsrium	1-571	644552	606JS1	66J992	66-44J	2.54	cpw
Bsrium	1-071	1154S15	12SS-11	11002-2	11001J6	1.90	cpw
BeryPium	971	160590	10---J	1012S5	10S01-	1.0S	cpw
Biwmuth	2S971	61-5229	54-2-S0	5949-99	5J-J909	6.24	cpw
Biwmuth	2S972	2J0J612	2J0S215	2941412	2J96046	1.-4	cpw
Bromine	J171	-J42	4SS1	4106	4SS6	4.16	cpw
Csdmium	1SJ71	1-265	1-10-	1-S9J	1-109	S.6-	cpw
Csdmium	1S671	2S0J-	21551	2S925	21SJ6	1.94	cpw
Csdmium	11171	15S44S	1509S-	15J16S	1555S1	2.J2	cpw
CsPium	4-71	19SJ-0	190204	1956JS	194590	1.02	cpw
CsPium	4471	-S5124-	-1-J26J	-211090	-1--069	2.56	cpw
Csrbon	1271	24J660-	24JS006	240056-	24J1601	S.19	cpw
Csrbon	1272	-1125	-1S5S	-S250	-SJ11	1.56	cpw
ChPrine	-571	129JJS	1-250J	1-1001	1-141S	1.S5	cpw
ChPrine	-572	1S10	JSJ	905	9--	11.J1	cpw
Chromium	5272	1JSS56	1040-4	102-56	105016	2.24	cpw
CobsPt	5972	-2J5-2	-2S946	-21-14	-2-590	1.-2	cpw
Copper	6-72	2J56S05	26966J9	20129-J	20552-4	-.1J	cpw
Dywprowium	15671	60	J-	1SJ	J6	24.-5	cpw
Dywprowium	15672	10	2-	4S	20	45.S0	cpw
Erbium	16471	05	60	5J	60	12.5S	cpw
Erbium	16472	20	10	--	26	-2.J1	cpw
GsdoPnium	16S71	125	1SS	J-	1S-	2S.4S	cpw
GsdoPnium	16S72	1J-	140	15-	161	12.12	cpw
HoPnium	16571	J0S94JS	064-24S	J4400J6	J266J-5	6.02	cpw
HoPnium	16572	-0J945S	-09052-	-J4-S-0	-J1SSS-	S.06	cpw
Indium	11571	61J5961	56S6199	6SJ0462	5959J04	5.21	cpw
Indium	11572	JJ6-51	JJ0210	JJSJ92	JJ4J2S	S.-9	cpw
Iron	5472	424014	416S64	416554	419111	1.16	cpw
Iron	5672	092-4J6	0JS01-2	0J24120	0J515J1	S.JS	cpw
Iron	5072	192545	1J941S	1J54-6	1J91-S	1.JJ	cpw
Krypton	J-71	241	2-6	2-0	2-J	1.S9	cpw
Lesd	2S671	-SJ12J9	-11J469	-1-J241	-112666	S.9-	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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CPrent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	25J4001	2022661	2019014	2605015	2.94	cpw
Lesd	2SJ71	11905250	12469-6J	12-J-6S2	12206S06	2.15	cpw
Lithium	671	245591S	215S4-9	2-5-91-	2-2SSJ0	6.0S	cpw
Msgnewium	2472	15SJ4J5	1499905	152-5S9	151S650	S.09	cpw
Msngsnewe	5572	9110-1	JJ659S	J91922	J9604J	1.4J	cpw
MoPybdenum	9471	2--1-1S	2-J96-1	2-6-426	2-61456	1.24	cpw
MoPybdenum	9571	--514SJ	-46-425	-45J0S5	-42451-	1.J5	cpw
MoPybdenum	9671	-64619S	-09JS-5	-009S4J	-041S91	2.21	cpw
MoPybdenum	9071	2S6SS2S	215221-	2S90-9-	21S-2SJ	2.2S	cpw
MoPybdenum	9J71	5---060	5425S05	54S494J	5-J09-S	S.J9	cpw
Neodymium	15S71	J0	--	9-	01	46.25	cpw
Neodymium	15S72	0	1S	1S	9	21.6-	cpw
NickePP	6S72	9SS09	JJ45-	9S150	J956-	1.S0	cpw
8howphoruw	-172	514-	499-	5-S9	514J	-.SJ	cpw
8otswwium	-972	45SSS0	4-514J	4-5S19	44SS5J	1.96	cpw
Rhodium	1S-71	6-S549S	55240J9	59J641J	59-JJ99	6.61	cpw
Rhodium	1S-72	29S-6JS	2J94J24	291J05S	29S5051	S.42	cpw
3csndium	4571	4S-50-0	-549659	-J4J011	-J11-69	6.4-	cpw
3csndium	4572	1-4041	1-56-0	1--15-	1-451S	S.94	cpw
3ePenium	J271	11909	12S0S	121-5	12S61	S.65	cpw
3ePenium	0072	-4-	--S	4SS	-5J	1S.-9	cpw
3ePenium	0J72	1216	1204	1212	12-4	2.J1	cpw
3iPcon	2J71	6J01211	011S-40	0S0J222	0S19926	1.J5	cpw
3iPer	1S071	J1J252	J2S-J2	J-5619	J24051	1.15	cpw
3iPer	1S971	06-S24	094J-S	099S-J	0J56-1	2.51	cpw
3odium	2-72	265S65S	26-5055	26S2-99	26296S2	S.94	cpw
3trontium	J671	4522S6-	40S5SS5	4614-11	461-09-	1.9J	cpw
3trontium	JJ71	-0096S6J	-95264S5	4S2055-5	-9199--6	-.24	cpw
3uPur	-471	-6JJ52	-65J44	-654S1	-66699	S.51	cpw
Terbium	15971	J9156JS	09S956-	J-465S1	J-9S5J1	6.S1	cpw
Terbium	15972	-00J-2J	-049J42	-604600	-0-42J2	1.4-	cpw
ThsPum	2S-71	6J05S4	690-J9	69065J	6941J4	S.J-	cpw
ThsPum	2S571	16J0922	1005-0-	106SS4-	104111-	2.6J	cpw
Tin	11J71	409922	515962	51545S	5S-00J	4.1S	cpw
Titsnium	4071	J045SS	J95129	9SJ6S0	J92045	1.92	cpw
Ursnium	2-J71	2512J4-	2559522	25J444S	255226J	1.42	cpw

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Inst Id :P8

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CPrent 3smpPe ID :	3S4	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1-6915	1-S69J	1-26-4	1--416	2.-J	cpw
Ytterbium	10271	J-	5S	J-	02	26.65	cpw
Ytterbium	10272	61	-9	J-	61	-6.-0	cpw
Ytterbium	10671	41J4	4SJ4	4406	424J	4.09	cpw
Ytterbium	10672	994J	9065	9926	9JJS	1.S1	cpw
Yttrium	J971	11190129	9J50S05	1SJ9JJ29	1S651S11	6.61	cpw
Yttrium	J972	11J-S54	1106141	110S491	1106562	S.5-	cpw
Zinc	6672	-21-JJ	-149S0	-14J-1	-10S42	1.19	cpw
Zirconium	9S71	1S-22J5	1S0195S	1S02094	1S59S1S	2.19	cpw
Zirconium	9171	2-S9J0	2-6509	24S469	2-6S12	2.S2	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
q8be c dbe	20 2	1a4716	1a7uS4	1a16u6	1a726a	SU02	dDI
q. Tde C. y	121 1	11uSu2S	11uS7S4	11u0476	11u2u-7	SU74	dDI
qII p. dd	0- 2	711S6	7S70-	7S162	7S-4u	1U62	dDI
BwIdbe	17- 1	17S2a4-	17S7144	17SS06u	17S22u6	SU1S	dDI
BwIdbe	170 1	27-10Su	27-716S	2726S1S	2747626	SU6-	dDI
Bply8dbe	a 1	72212u	72S4u1	72SS1a	72Su06	SU7-	dDI
Bdde bTh	2Sa 1	612S141	6Su64u-	620u0S6	6161000	1U60	dDI
Bdde bTh	2Sa 2	2u7Su01	2u6u0a-	7S02210	2a27a61	4U44	dDI
BIDe c p	u1 1	76a2	76Sa	7626	7642	1U21	dDI
Fwoe dbe	1Su 1	2407-	24-uS	2-7u6	24aSS	1U02	dDI
Fwoe dbe	1S6 1	76204	76010	7077-	7600-	1U4-	dDI
Fwoe dbe	111 1	2a--S0	2a6aa4	2au06S	2a0Su0	SU-J	dDI
Fw8Idbe	47 1	76a0S4	702-a7	760-72	76aa47	SU6a	dDI
Fw8Idbe	44 1	-a776a-	6S6au24	-a10au-	-a07u7-	1U4S	dDI
FwIr C.	12 1	2416a7u	27-11a0	27uuuS2	27u-646	1U7u	dDI
FwIr C.	12 2	71S-S	7S1aS	7S624	7S621	1U4S	dDI
Fh8DIc p	7- 1	12-S-4	124a11	1240u4	124a16	SU11	dDI
Fh8DIc p	7- 2	uSS	11SS	a-u	a-7	1-U0-	dDI
FhIDe dbe	-2 2	776706	77u--0	772411	77-0u1	SUa7	dDI
FDr w8T	-a 2	61aS0S	617-u7	6S2aS6	611u-7	1U74	dDI
FDDDpI	67 2	-27u7-7	-1220uu	-Suu141	-14a06S	1U-J7	dDI
&yI DIDI dbe	1-6 1	12-	1SS	1Su	111	11U46	dDI
&yI DIDI dbe	1-6 2	7S	77	77	72	-Ua0	dDI
EIr dbe	164 1	a2	60	0-	0u	16U70	dDI
EIr dbe	164 2	4S	7S	7S	77	10U72	dDI
GwoD8c dbe	16S 1	210	177	2Su	1u6	24U66	dDI
GwoD8c dbe	16S 2	120	140	10S	14u	14U60	dDI
HD8e dbe	16- 1	u4-0246	u6S6a41	u-0246-	u-4---1	SUa2	dDI
HD8e dbe	16- 2	76u1Sa6	704S7aS	7aa2u27	7uS400S	4U7-	dDI
t. odbe	11- 1	6Sa11-S	610SS-0	6164S0a	6141062	SU02	dDI
t. odbe	11- 2	u-2S64	u6-u01	a47S44	uu6aa7	-U-J7	dDI
tIC.	-4 2	0a42a2	0aa6u0	0u0u71	0a7a70	SU0-	dDI
tIC.	-6 2	14u72404	14aaS0aa	14a2S4-6	14a14-06	SU-J7	dDI
tIC.	-0 2	7671-a	7-uS4-	7-4-7-	7-u-uS	1U21	dDI
KIyDTC.	u7 1	246	226	20S	240	uUu-	dDI
Lpwo	2S6 1	6Sa7Suu	6S7-127	6106S01	61S1420	1U16	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pT:mwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Lpwo	2S0 1	- 2a0u64	- 21661a	- 717u00	- 20612S	S1aa	dDI
Lpwo	2Su 1	2477Sa41	24S426u-	2467027a	24776a- -	1U22	dDI
LdTbe	6 1	27471- 6	276S107	271046a	274S266	S1a2	dDI
5 wg. pI dbe	24 2	2u- 61a7	2u2a24-	2u107Sa	2u7424a	SU0S	dDI
5 w. gw. pI p	- - 2	10u- ua2	1u4uS21	10u- 6u1	1uS6- 71	1Uaa	dDI
5 C8yr op. be	a4 1	44264u-	4706- 20	440S174	44247u2	1US6	dDI
5 C8yr op. be	a- 1	644- u6a	67aa1a6	640264-	647a270	SUJu	dDI
5 C8yr op. be	a6 1	0S2u- 1S	0S- 6402	0Saa662	0S61- 4u	SUJ1	dDI
5 C8yr op. be	a0 1	4SS1au1	4S1S4a6	7aS6674	7a07S70	1U4-	dDI
5 C8yr op. be	au 1	1S2760uu	1S2S4Sua	1S242177	1S22060S	SU2S	dDI
mpCoye dbe	1- S 1	1S0	a7	1S0	1S2	0UJ7	dDI
mpCoye dbe	1- S 2	17	1S	0	1S	77U7S	dDI
mdkp8	6S 2	101a7u	160240	166- 17	16u- 66	1U0-	dDI
NhCI DhCIbI	71 2	a6u0	a- a-	a462	a- u1	1U1u	dDI
NCTwI I dbe	7a 2	u2S101	u2S22a	u221a1	u2Su64	SU14	dDI
9 hCodbe	1S7 1	- aS624u	6Sa26- -	6S10- 10	6SS- 404	1UJ6	dDI
9 hCodbe	1S7 2	20u0Sa4	2u61276	7S621- 1	2aS74a4	4UaS	dDI
3 dw. odbe	4- 1	7u47616	7a- aS27	7a0- 060	7a2617-	1Uu7	dDI
3 dw. odbe	4- 2	12aS67	171422	17a- 0S	1777- 2	4U17	dDI
3 p8p. dbe	u2 1	272S0	27712	27767	272a4	SU74	dDI
3 p8p. dbe	00 2	6uS	600	0S0	6uu	2U7a	dDI
3 p8p. dbe	0u 2	22a-	22u6	22- S	2200	1US-	dDI
3 8dC.	2u 1	177u4a04	171u67- 2	172u- 407	172u- 6SS	SU0-	dDI
3 8vpI	1S0 1	16Sa1a0	1610411	160S4u4	1672764	2US4	dDI
3 8vpI	1Sa 1	1- 0S0a7	1- 001S2	1- u417a	1- 00744	SU42	dDI
3 Codbe	27 2	4au47u7	4uuu44S	4ua1- aS	4a21401	1U11	dDI
3 TC. Tbe	u6 1	u044- uS	uu0- 1S2	u00Su4u	u0a6u47	SU0u	dDI
3 TC. Tbe	uu 1	0662a1a7	0- Sa270-	06a7S671	062104SS	1U2a	dDI
3 b8bI	74 1	41ua2S	416auS	4164u-	410462	SU71	dDI
ApIr dbe	1- a 1	u7au0a-	uu2S- S2	uua7- 4S	u0S420a	7US0	dDI
ApIr dbe	1- a 2	74aS- 7S	76S0a27	7uaSS64	7662u7a	- U61	dDI
Ahw8bbe	2S7 1	17- 62- 1	172u47u	17- 2a00	174- uua	1U17	dDI
Ahw8bbe	2S- 1	74S0167	77u64a1	7- 2- 7- 6	747a60S	2U1u	dDI
Ac	11u 1	aaSa- 0	au6ua1	a6a722	au27aS	1U10	dDI
AdTw. dbe	40 1	10711- -	1067- 42	10S7172	107261S	1U04	dDI
RIw. dbe	27u 1	4a017- 1	- S26024	- S4S1a7	- S120- 6	SU07	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuFqL3Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Vw. wodbe	-1 2	2-0066	2---S1	2-2-u-	2--2u4	1US2	dDI
YTpIr dbe	102 1	1Su	1Su	u7	1SS	14U47	dDI
YTpIr dbe	102 2	44	-6	-S	-S	11U11	dDI
YTpIr dbe	106 1	606S	02S2	0200	0SuS	7Ua-	dDI
YTpIr dbe	106 2	11-16	117-S	1222u	116au	7Uaa	dDI
YTTdbe	ua 1	1S62024S	1110a44u	111a2u1a	1Saaau76	2Ua7	dDI
YTTdbe	ua 2	1121276	116a-1a	17Su027	11aau26	uU11	dDI
Zc d	66 2	6S-Su7	-a0727	-a--71	-aa712	SUu-	dDI
ZdcdC. dbe	aS 1	212460a	217a24a	21-0214	214S7uS	SU06	dDI
ZdcdC. dbe	a1 1	44a270	4-6ua4	4-u4u7	4-4u01	1USa	dDI

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	- CS428	- 88- S-	- 801C6	- 88642	SF42	cps
Antimon9	12171	24S084C	24240- 4	24- C1- 0	242- CS0	SF6y	cps
Arsenic	0y72	616y6	622- 8	61662	618y2	SFy4	cps
Barium	1- y71	26- 886-	26C841-	26y- 428	266- y68	1F10	cps
Barium	1- 071	46yy046	4y00- 4S	46S- 4y8	4612181	SF80	cps
Ber9llium	C71	6S00- C	61y- C2	6S824S	61S4y0	SF0S	cps
Bismuth	2SC71	6SCC- 26	61406CC	61C0264	6148SC6	SF8S	cps
Bismuth	2SC72	2C2S- 21	2C16- 0C	2884- S8	2CS0SS-	SF68	cps
Bromine	8171	- 606	- 2- 4	- 410	- 442	6F4y	cps
. admium	1S871	40CS4	488Cy	48- 64	48- 88	1FS2	cps
. admium	1S671	60C- y	680- S	0SS08	68C14	1Fy0	cps
. admium	11171	y8Sy8y	y821y-	y04C6y	y0C2- 4	SF6y	cps
. alcium	4- 71	01- y- 8	028y40	024- 6-	02214C	1FS0	cps
. alcium	4471	1161y8Sy	11C1C- 8y	11CS808S	118146y0	1F46	cps
. arbon	1271	244S6yS	2418166	246C844	2442880	1FS6	cps
. arbon	1272	- 2461	- 2- 28	- 24Cy	- 2428	SF20	cps
. hlorine	- y71	12SC0C	1210- 4	12y1C0	1226- 0	1F8-	cps
. hlorine	- y72	88-	CSS	060	8yS	8Fyy	cps
. hromium	y272	6044S2	68S1y6	60y4S-	6066y4	SF4y	cps
. obalt	yC72	1210- 24	12- S146	12- 6C82	12281y1	SF81	cps
. opper	6- 72	1S2- C164	1S2y- 82C	1S2620S8	1S2y1CSS	SF12	cps
D9sprosium	1y671	1S8	18-	2- -	10y	- yFCy	cps
D9sprosium	1y672	C-	0-	60	08	10F84	cps
Erbium	16471	110	1S8	1yS	12y	10F64	cps
Erbium	16472	y0	20	yS	44	- yF44	cps
Gadolinium	16S71	22y	1C2	2y8	22y	14F82	cps
Gadolinium	16S72	1C-	100	22S	1C0	11F11	cps
Holmium	16y71	86C11C4	8048C- S	86- 2y01	86CS8C8	SF60	cps
Holmium	16y72	- 81612-	- 0- S10y	- 8- 426-	- 0C- y2S	1F40	cps
Indium	11y71	61- C444	6S601C2	6S8y004	6SC040S	SF62	cps
Indium	11y72	862222	86yS28	8yy112	86S080	SFyC	cps
Iron	y472	160S288	10S2y6y	101C246	16C0- 66	1F40	cps
Iron	y672	2C80S24C	2C6yyS60	- SS08- 10	2C860808	SF01	cps
Iron	y072	021yS-	02ySC8	0- 1yy6	026Sy2	SF0S	cps
Kr9pton	8- 71	226	2- S	2- 0	2- 1	2F48	cps
Lead	2S671	11C2- 614	12S4- 408	118- C- 0C	11C- y4CS	SF86	cps

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LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	1S-S082-	1Sy-S-08	1S-11281	1S-8-161	1F2-	cps
Lead	2S871	401424C-	48-1y021	4080y406	400008C0	1F24	cps
Lithium	671	22y6S16	21C4-S2	2268810	22-C011	1F08	cps
Ragnesium	2472	y60262-	yy2-y6-	yy6y811	yy80--2	1F-0	cps
Ranganese	yy72	-y684C0	-6Cy04S	-6616C4	-641C00	1FB1	cps
Rol9bdenum	C471	86-1SC2	80y0CC-	88-Sy4S	80-C80y	1F16	cps
Rol9bdenum	Cy71	12016841	120-8S0y	1-SS0C4-	1282SCy-	1F20	cps
Rol9bdenum	C671	14SS6Syy	14S611-y	1414Sy6y	14S6C2y2	SF48	cps
Rol9bdenum	C071	0C4041-	0C6S2S1	08-y1S1	0C142-8	SFB0	cps
Rol9bdenum	C871	2S40Cy-8	2SCS48y0	2S416y4-	2S6SS-1-	1F2C	cps
Neod9mium	1yS71	2SS	18S	1y-	108	1-F10	cps
Neod9mium	1yS72	1-	1S	1-	12	1yF0-	cps
Nickel	6S72	--80y-	--8--C	--810-	--8422	SFSC	cps
Phosphorus	-172	1C802	1886-	1C002	1CyS2	2FBy	cps
Potassium	-C72	160-C1S	10486S2	101-22y	1011C12	2F18	cps
5hodium	1S-71	yCCS4y0	6S6y8-y	y81820-	yCy818C	2F1-	cps
5hodium	1S-72	20686CC	28S2-y0	28S0460	20C2841	SF0y	cps
3candium	4y71	-Cy6SCS	-8CC446	-8y0C-2	-CS448C	1F26	cps
3candium	4y72	12CS00	1-S1-0	12C0S-	12C6-C	SF41	cps
3elenium	8271	444-C	442C2	440-2	44488	SFyS	cps
3elenium	0072	1-00	1-CS	146-	141S	-F-1	cps
3elenium	0872	4yC0	448C	44y2	4y1-	1F60	cps
3ilicon	2871	2y8S2y4-	2y16C2y1	2ySSS-C0	2y-24S64	1F60	cps
3ilver	1S071	-22-2SC	-248122	-20-414	-24824C	SF00	cps
3ilver	1SC71	-Sy881S	-12ySyy	-S-C606	-S04y14	1F46	cps
3odium	2-72	CC2S64y	C0CySS0	1SS-8SC-	CC10C1y	1F2-	cps
3trontium	8671	16C8S2y8	101861C0	102-S-SC	101-22yy	SF08	cps
3trontium	8871	1yS6y8CC1	1y226C480	1y2y08-2S	1y18-yyCC	SF68	cps
3ulfur	-471	y2y8y8	y2-0-4	y2y6C2	y2ySCy	SF22	cps
Terbium	1yC71	80yCS6C	8Cy8810	88200-0	8848y41	1F1y	cps
Terbium	1yC72	-0C0818	-0S81S8	-066-C4	-0y044S	1F21	cps
Thallium	2S-71	28S-1C1	2CSy6-C	28120C0	284Sy42	1FCC	cps
Thallium	2Sy71	6020S18	6828210	66C61C1	60yS406	1FS2	cps
Tin	11871	1C84261	2S-y2y2	1CCCyy6	2SS6-y6	1F-S	cps
Titanium	4071	-418SSy	-428240	-4yyC-0	-4-4S6-	SFy0	cps
Mranium	2-871	C0S2160	1S2-18S2	1S10CS40	1SS-0602	2FC1	cps

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LB Number :	LB1264S0	Operator :	Jaswal
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. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	y172	y1yS24	y1C168	y10yS6	y102- -	SF4S	cps
Ytterbium	10271	1yS	142	1y8	1yS	yFy6	cps
Ytterbium	10272	1SS	1SS	y6	8y	- SF12	cps
Ytterbium	10671	128CS	12- y6	1- 24S	1282C	- F40	cps
Ytterbium	10672	14S- y	141C0	14441	1422y	1F44	cps
Yttrium	8C71	11- - 414C	1S04- SC2	11S48842	11S42S28	2F68	cps
Yttrium	8C72	11yy- 2-	11y6- 0y	11y8SS6	11y6y68	SF12	cps
Zinc	6672	11C82- 6	12S- S24	11C4C8-	11C8048	SF- 4	cps
Zirconium	CS71	410S486	4S6S242	4- 1S8- 8	418Sy22	- FSS	cps
Zirconium	C171	8C00C6	8C- - y-	CS6186	8CC112	SF02	cps

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	0J0145	0J1121	09-S16	0J0S94	S.06	cpw
Antimony	12171	4J-S461	51S4055	49614S4	496554S	2.06	cpw
Arwenic	0572	120S5-	125JS-	126J1S	126555	S.52	cpw
Bsrium	1-571	5-1S---	55--061	5456219	54--4-J	2.S9	cpw
Bsrium	1-071	94S4942	90J60-9	946J--9	955--4S	2.14	cpw
BeryPium	971	1216614	1255-2J	1216952	12296-1	1.J1	cpw
Biwmuth	2S971	61J9114	5526--0	6S49116	5921522	5.9S	cpw
Biwmuth	2S972	2JJ0541	29S9095	29625J2	291990-	1.-2	cpw
Bromine	J171	-S05	2J92	-142	-S-0	4.26	cpw
Csdmium	1SJ71	95449	909J4	90606	90S-6	1.4-	cpw
Csdmium	1S671	1--500	1-0962	1-694-	1-6161	1.69	cpw
Csdmium	11171	11512--	11JJ5J-	116606J	116JJ62	1.61	cpw
CsPium	4-71	15412-J	1611S29	152J069	156S-45	2.J4	cpw
CsPium	4471	2-424416	24S9-599	2-2J2661	2-6SS225	1.J4	cpw
Csrbon	1271	24-629J	249JS0S	259S654	25SJ-4S	-.1S	cpw
Csrbon	1272	-4691	----J	-6S11	-46JS	-.J5	cpw
ChPrine	-571	119909	122J6S	12-J00	1222-9	1.65	cpw
ChPrine	-572	1SSS	J42	1110	9J6	14.SS	cpw
Chromium	5272	14J440-	1445-5-	1440462	1459S96	1.51	cpw
CobsPt	5972	26-S1S4	2509524	2564-00	2591--5	1.--	cpw
Copper	6-72	2S5S9S1-	2S509106	2S59596S	2S561-J-	S.22	cpw
Dywprowium	15671	2J-	-42	460	-64	25.04	cpw
Dywprowium	15672	10-	210	15S	1JS	1J.09	cpw
Erbium	16471	2SJ	15S	242	2SS	2-.2S	cpw
Erbium	16472	50	60	40	50	10.65	cpw
GsdoPnium	16S71	292	-05	-SJ	-25	1-.50	cpw
GsdoPnium	16S72	250	20-	-4-	291	15.JS	cpw
HoPmium	16571	9169402	09292J1	JJ194SS	J6-9-J4	0.4S	cpw
HoPmium	16572	-091S5J	-904462	-96002S	-911SJS	2.66	cpw
Indium	11571	6161905	5405S29	6162001	59--25J	6.69	cpw
Indium	11572	J0S652	J694S6	J0-5S2	J011J0	S.24	cpw
Iron	5472	-4211-2	--6S0S-	--9251S	--91449	S.J9	cpw
Iron	5672	62S5159S	595-6164	6S15J-SJ	6S5J2S21	2.16	cpw
Iron	5072	1560665	1529449	1556040	15512J0	1.20	cpw
Krypton	J-71	222	244	2-1	2-2	4.59	cpw
Lesd	2S671	2461-6-S	24-54JJ5	245-426-	245SS926	S.54	cpw

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LB Number :	LB1264S0	Operstor :	aswl sP
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CPrent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	21190-JJ	2S925J12	2152115S	212140J-	1.4S	cpw
Lesd	2SJ71	90J4J5-6	9019609S	9J-9S191	90J11J-9	S.61	cpw
Lithium	671	2140549	2S5--00	210-299	2124042	2.90	cpw
Msgnewium	2472	114S0-5S	11--6J24	112J2162	11-42112	S.55	cpw
Msngsnewe	5572	0-21461	0144926	0412162	0292J49	1.J6	cpw
MoPybdenum	9471	1JS6-194	1J52SJ02	1JS05J5J	1J219905	1.4-	cpw
MoPybdenum	9571	26S-9-29	260J9059	26091966	2654S-51	1.6-	cpw
MoPybdenum	9671	2J-9J64J	2921-200	29-11629	2J90451J	1.0-	cpw
MoPybdenum	9071	1622929J	166S1J-2	16-941J9	164SJ44S	1.14	cpw
MoPybdenum	9J71	41604596	42-62144	4--50241	4246466S	1.99	cpw
Neodymium	15S71	-20	2J0	-40	-2S	9.55	cpw
Neodymium	15S72	6S	4-	4-	49	19.69	cpw
NickePP	6S72	600291	60SS5J	60J42-	605250	S.60	cpw
8howphoruw	-172	-9-54	4S4J2	4S641	4S159	1.05	cpw
8otswwium	-972	-5210-9	-425655	-5J--54	-51S249	2.26	cpw
Rhodium	1S-71	6SJJ616	5444022	590J9S4	5J-0414	5.9S	cpw
Rhodium	1S-72	2JS925-	2J5J016	2J15151	2J200S6	S.96	cpw
3csndium	4571	-992J--	-6S-6-0	-0JJ054	-095S05	5.1-	cpw
3csndium	4572	1-4402	1-2145	1-5600	1-4S9J	1.-4	cpw
3ePenium	J271	J0J5S	J9J-5	J9S09	JJ921	1.1-	cpw
3ePenium	0072	26JS	2040	2040	2025	1.41	cpw
3ePenium	0J72	J921	J949	J94J	J9-9	S.1J	cpw
3iPcon	2J71	49290924	5S-2S-41	49121256	49509J4S	1.-1	cpw
3iPer	1S071	6-9--J0	65S94S4	6-00S0J	642662-	1.12	cpw
3iPer	1S971	5941J0J	626-6J5	6S5412S	6SJ6561	2.6J	cpw
3odium	2-72	19000194	19J9450S	1994J-24	19J0--62	S.44	cpw
3trontium	J671	-546JJ-9	-6S4-9-6	-5J51164	-50J09JS	S.J2	cpw
3trontium	JJ71	-1S14J-49	-1200SJS0	-1-04J099	-12222651	S.6S	cpw
3uPPur	-471	00S125	0J2626	069226	00-992	S.90	cpw
Terbium	15971	911-214	J2SSJ61	J050655	J69S500	5.29	cpw
Terbium	15972	-00S19S	-JSJ621	-JS1106	-09--29	S.54	cpw
ThsPPum	2S-71	50590S0	5J260-5	50-0J9J	50040JS	S.JS	cpw
ThsPPum	2S571	1-0J1600	1-00S-0-	1-54-165	1-69J4S5	S.9J	cpw
Tin	11J71	4S-0JJ9	4156112	4S609J0	4SJ0-29	1.5S	cpw
Titsnium	4071	6J0SJ-4	6999012	699J145	69562-1	1.S6	cpw
Ursnium	2-J71	2S560521	21-J-JS5	2S666J55	2SJ02020	2.1-	cpw

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CRent 3smpRe ID :	3S0	DiRtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiRe Nsme :	S1SCAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1S542J4	1S49516	1S6S625	1S54JS9	S.5-	cpw
Ytterbium	10271	225	160	1J-	192	15.6J	cpw
Ytterbium	10272	1S6	144	110	122	16.-9	cpw
Ytterbium	10671	25S5S	26S1S	25J59	256-9	2.S1	cpw
Ytterbium	10672	19426	19J1S	19142	19459	1.02	cpw
Yttrium	J971	114S90-9	1SSJ-015	111S-092	1SJ65049	6.-9	cpw
Yttrium	J972	11J6J02	119J552	11J4S42	11J9J22	S.65	cpw
Zinc	6672	251-S4S	25--J59	255S246	25-2-J2	S.04	cpw
Zirconium	9S71	J49SJ4-	JJ19S59	J4J5965	J59J622	2.22	cpw
Zirconium	9171	192192S	1909S-0	1904450	195J401	1.62	cpw

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LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
APminium	20 2	751S- 1-	7- - S91-	4S2- 416	7575510	1.5-	cpw
Antimony	121 1	2052	269S	4S26	7196	27.50	cpw
Arwenic	09 2	45	97	04	95	22.- 5	cpw
Bsrium	179 1	4157	77S5	7- 06	7052	11.- 1	cpw
Bsrium	170 1	0176	6076	6- S2	6- 51	7.11	cpw
BeryPium	5 1	254	2S1	252	262	2S.21	cpw
Biwmuth	2S5 1	9949666	4- 51027	9995265	9772215	0.16	cpw
Biwmuth	2S5 2	2072110	2015000	2047792	2071045	S.47	cpw
Bromine	- 1 1	9657	0S44	0576	6- 51	16.75	cpw
Csdmium	1S- 1	1S-	05	1SS	56	19.6-	cpw
Csdmium	1S6 1	74S1	7129	7942	7796	6.71	cpw
Csdmium	111 1	1SS2	- 04	5S1	529	0.2-	cpw
CsPcium	47 1	6999944	6- 64624	60- 0- 64	6076S11	2.75	cpw
CsPcium	44 1	1S- 900549	11145S1S6	11S411591	11S16SSS1	1.74	cpw
Csrbon	12 1	225267S	2767159	2474219	2767740	7.SS	cpw
Csrbon	12 2	74719	74- 09	79792	74- 40	1.45	cpw
ChPorine	79 1	172650	17- S0S	17- 4S-	176751	2.79	cpw
ChPorine	79 2	1110	1S9-	12- 7	1197	1S.17	cpw
Chromium	92 2	- 9S6	- - 25	- 947	- 626	2.S9	cpw
CobsPt	95 2	6119	6141	6S99	61S4	S.07	cpw
Copper	67 2	0719	0229	0252	020-	S.64	cpw
Dywprowium	196 1	1SSS	1S60	11SS	1S96	4.- 2	cpw
Dywprowium	196 2	450	9SS	450	45-	S.75	cpw
Erbium	164 1	229	2S-	19S	154	2S.26	cpw
Erbium	164 2	16S	50	60	1S-	44.21	cpw
GsdoPhium	16S 1	12- 7	1S9S	1210	11- 7	1S.16	cpw
GsdoPhium	16S 2	- - S	090	097	050	5.S6	cpw
HoPmium	169 1	- 9- 9S5S	04- 224S	- 0461- S	- 20110S	- .72	cpw
HoPmium	169 2	7- 92097	7- 42- 19	7- 2- - 9S	7- 41407	S.71	cpw
Indium	119 1	9- S- 415	9S59205	9- 00- 50	9957- 69	0.04	cpw
Indium	119 2	- 0674-	- 60509	- 6- 51-	- 01S- S	S.97	cpw
Iron	94 2	16149S95	1615S744	19- 17045	16S4501-	1.2-	cpw
Iron	96 2	2511- S- 91	2500S0062	2- 55S- 0S6	25257244S	1.47	cpw
Iron	90 2	046629S	0706205	045S059	0444441	S.- 1	cpw
Krypton	- 7 1	224	225	296	276	0.41	cpw
Lesd	2S6 1	12640	11691	179S4	126SS	0.76	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
Lesd	2S0 1	12415	5719	1S599	1S-56	14.29	cpw
Lesd	2S- 1	99-26	4929S	91---	9S5--	1S.4-	cpw
Lithium	6 1	2S6427-	1-16249	2S4424-	150451S	6.5-	cpw
Msgnewium	24 2	94544-0-	9429S5S9	94219150	9440S720	S.06	cpw
Msngsnewe	99 2	9701	9764	9444	9757	S.-2	cpw
MoPybdenum	54 1	-262	95S2	-9-0	09-7	15.77	cpw
MoPybdenum	59 1	1S541	-27-	5517	5650	14.S0	cpw
MoPybdenum	56 1	1260S	57S4	12477	11465	16.7-	cpw
MoPybdenum	50 1	6949	911S	6--9	61-S	19.29	cpw
MoPybdenum	5- 1	1-45-	11475	10290	19071	27.56	cpw
Neodymium	19S 1	2SS	2SS	2SS	2SS	S.SS	cpw
Neodymium	19S 2	6S	77	60	97	77.S-	cpw
NickePl	6S 2	79S0	7720	7294	7767	7.--	cpw
8howphoruw	71 2	109	29-	210	210	15.27	cpw
8otswwium	75 2	1072717-	10204192	1070-S65	1072912S	S.7S	cpw
Rhodium	1S7 1	990S7SS	4-5-995	9491746	97S6079	6.09	cpw
Rhodium	1S7 2	264S5-1	2675-S-	26---16	2696979	1.S9	cpw
3csndium	49 1	70-4706	772610S	700S-46	7620171	0.15	cpw
3csndium	49 2	174042	177066	177SS2	177-70	S.69	cpw
3elenium	-2 1	979	420	422	462	17.00	cpw
3elenium	00 2	1S	10	17	17	29.S1	cpw
3elenium	0- 2	61	96	52	0S	20.55	cpw
3iPcon	2- 1	645621	054140	-79S61	0956S5	12.-7	cpw
3iPver	1S0 1	11S-	1209	11SS	1161	-.9S	cpw
3iPver	1S5 1	1109	1S9-	552	1S09	-.67	cpw
3odium	27 2	594-0729	5647-SSS	540117S4	59949947	S.51	cpw
3trontium	-6 1	11567	-9-0	1S167	1S27-	16.9S	cpw
3trontium	-- 1	-5917	99254	-2-06	09-54	27.51	cpw
3ulPur	74 1	209611	201049	2010-S	207S49	S.-1	cpw
Terbium	195 1	--22442	0972SS5	-6S7-04	-715442	-.7S	cpw
Terbium	195 2	7022214	700416-	7-S265S	7066790	1.S-	cpw
ThsPium	2S7 1	1652	199S	16SS	1614	4.49	cpw
ThsPium	2S9 1	44-9	7995	4791	4172	12.11	cpw
Tin	11- 1	796S	7S10	74S1	7726	-.7-	cpw
Titsnium	40 1	2160	1229	27SS	1-5-	7S.-5	cpw
Ursnium	27- 1	4700	74S1	4495	4S05	14.44	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpRe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CRent:3smpRe:ID:J	3S-	DiRtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiRe:Nsme:J	S11CAL3.d

8srsmeter	Msww	C831	C832	C837	C83Mesn	C83R3D	Unitw
Vsnsdium	91 2	7-0	770	4SS	704	-.52	cpw
Ytterbium	102 1	129	229	110	196	7-.06	cpw
Ytterbium	102 2	61	61	0-	60	14.44	cpw
Ytterbium	106 1	1777	1209	1960	1752	11.S5	cpw
Ytterbium	106 2	56S4	5-47	5957	56-S	1.46	cpw
Yttrium	-5 1	1S526S72	547-012	1S-0474S	1S417S2-	-.11	cpw
Yttrium	-5 2	11527S0	12S7-71	12S1S66	1155S6-	S.9S	cpw
Zinc	66 2	2-00	2000	2-7S	2-2-	1.00	cpw
Zirconium	5S 1	9S1S	4774	9026	9S27	17.-6	cpw
Zirconium	51 1	12SS	11SS	12SS	1160	4.59	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacqlatOoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNlablr las	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
dNer qFqer	20J2	214yy	2Sm y	2Syy4	21110	1U6S	O&P
dFiq .Fh	121J1	ymmy4m	1SSmy1S	yy64m1	yym11:	1US1	O&P
dDPlFqO	0 J2	2m24	2m4mm	2m4S:	2m 0y	SU44	O&P
BlDqer	1: J1	1SmS24	1Sy:S1	111140	1Sy4y1	1U4:	O&P
BlDqer	1:0J1	1yS00y	1yS1m2	1my:4y	1yS1S:	SUm	O&P
BlDmNqer	yJ1	1:6S62	1:61S2	1:m6:6	1:6y::	1USm	O&P
BqPr eiE	2SyJ1	6:2:S::	64y6S62	64664 2	642m 16	1U44	O&P
BqPr eiE	2SyJ2	:12mS0y	:1:0:m	:1m4 y	:1 S:S0	SUym	O&P
BDr qFl	m1J1	4110	:y y	4S10	4S:1	1Uyy	O&P
-lnr qer	1SmJ1	mm 2	mm2m	m011	m0yS	SU0m	O&P
-lnr qer	1S6J1	1 :y2	1 0:4	14mSS	1 :Sy	:USy	O&P
-lnr qer	111J1	124y04	12y022	120 1S	1204S2	1Um0	O&P
-lNqer	4:J1	2m mS	2y:12	2m Sm	2mmSS	1U	O&P
-lNqer	44J1	4my4y4	4y6:11	SS:1S	4y :02	1U1S	O&P
-lDp.F	12J1	26:S002	26 m1 2	2022y m	260S620	1U00	O&P
-lDp.F	12J2	:4:66	::464	:4 2	:411m	1U6m	O&P
-ENDqFl	: J1	1S2Sy2	ymm 0	1SS041	1SS 0	1U6:	O&P
-ENDqFl	: J2	0 m	0SS	660	0Sm	6U	O&P
-EDr qer	2J2	1 1:my	1 1SS1	1 SyS4	1 1Sym	SU10	O&P
-.plN	yJ2	20y2S1	20:624	206:1m	206:m1	1US1	O&P
-.&&lD	6:J2	21my S	2104y2	212 m2	216:42	1U4	O&P
ThP&DPqer	1 6J1	S	m	m	6	m6U6S	O&P
ThP&DPqer	1 6J2	:	0	S	:	1SSUS	O&P
GDpqer	164J1	42	1Sm	S	60	4U4y	O&P
GDpqer	164J2	2:	:0	20	2y	24US:	O&P
HIn.NqFqer	16SJ1	60	110	0	m6	:1U11	O&P
HIn.NqFqer	16SJ2	1:0	14S	1 0	144	0U42	O&P
K.NlqER	16 J1	m00 Sm	y1Sym 4	mm m S6	my144m2	1Uy	O&P
K.NlqER	16 J2	4S0 6:1	:y11y0:	4S00yS:	4S21m 6	2U0	O&P
3FnqER	11 J1	64 0S:6	60y:y06	66 mm	66:6622	2U6	O&P
3FnqER	11 J2	y6y606	y024 2	y0 60	y026S1	SU1	O&P
3DF	4J2	14Sy::	1:m61S	14S4 2	1:yyym	SUm	O&P
3DF	6J2	262 6:2	2 m 222	26226:y	2611164	SUm6	O&P
3DF	0J2	6:1S6	61my	6:22:	62041	1U10	O&P
gDh&i.F	m J1	2 2	2:0	216	2:	0U04	O&P
LIIn	2S6J1	1SS006	1S2:2 S	1S24:04	1S1m46:	SUy1	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacq lad CoeqDnas	2S2:JS0J12a1:s14sS:	TlilMqNabl r las	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9t T	RFqP
LlIn	2S0J1	m621 :	m ::4	m62:S6	m yy:1	SU46	O&P
LlIn	2SmJ1	424my62	4246mS1	42221 S	42:y:S	SU	O&P
LqEqer	6J1	2424066	2 1012:	241m224	24 ::01	2U2	O&P
5lkFlPqer	24J2	1: 0ym	1:4 6m	1: yS	1: 424	SU	O&P
5lFklFlPl	J2	0 S6y	0 :60	0 44m	0 2y	SU20	O&P
5.NlpnlFer	y4J1	4::	:0	4 m	422	1SU1:	O&P
5.NlpnlFer	y J1	:10	4SS	2m	:::	1mUS:	O&P
5.NlpnlFer	y6J1	40	6::	60	y4	10U0	O&P
5.NlpnlFer	y0J1	10	210	10	1my	12U0:	O&P
5.NlpnlFer	ymJ1	60	6SS	6Sy	y2	:U0:	O&P
bl.nhr qer	1 SJ1	1:	0	S	0	yyUym	O&P
bl.nhr qer	1 SJ2	S	S	S	S	SUSS	O&P
bqOvlN	6SJ2	m102:	0y66	mSSy4	mS4y4	1U	O&P
uE.P&E.DeP	:1J2	260	22	210	2:6	11U	O&P
u.ilPPqer	:yJ2	1 2 y:	1 S46:	14yy:2	1 Syy6	SUy:	O&P
9E.nqer	1S:J1	64 1	6006m 0	6 mm 44	66S m6	2U40	O&P
9E.nqer	1S:J2	:16m62S	:1m2S62	:1m20ym	:100m20	SU2	O&P
t O Fnqer	4 J1	41:414y	4:0m 21	42my1:4	426026m	2UyS	O&P
t O Fnqer	4 J2	1401	146226	1404yy	146y6S	SU4	O&P
t lNlFqer	m2J1	2SSmm	2S m	2S6	2S4:4	1U4m	O&P
t lNlFqer	00J2	610	64S	610	624	2U16	O&P
t lNlFqer	0mJ2	212y	2141	214m	214S	SU4	O&P
t qNlD F	2mJ1	1y2S0:	1mm2ym	1m66y6	1mySS22	1U46	O&P
t qNlD	1S0J1	:26m16	:::4SS	::S6y0	::S:S4	1USS	O&P
t qNlD	1SyJ1	:S0S01	:1602y	:1:4 y	:1242S	1U0	O&P
t .nqer	2:J2	4:40m	420y6S	4:S12S	4:Sy	SUm1	O&P
t iD Fiqer	m6J1	11Sm	060	m42	yS6	1yUm	O&P
t iD Fiqer	mmJ1	4yS1	4106	4110	4:ym	yUy:	O&P
t eNvD	:4J1	:S S2m	:S 622	:S01y2	:S y40	SU0	O&P
cl Dpqer	1 yJ1	mm446 4	y6: Sm	y41yyS0	y2yymm2	4Uy	O&P
cl Dpqer	1 yJ2	4S:0SS2	4S102S2	:y:6m02	:yy0S2	1U:	O&P
cEl NqEr	2S:J1	12 0m1y	120S::2	12:1y1	12 :: 6	1U6	O&P
cEl NqEr	2S J1	:Sy6m62	:12yy:1	:141 41	:12200m	SU04	O&P
cqF	11mJ1	1 m	1:::	1210	1:0m	1:U6S	O&P
cqlFqer	40J1	22	210	2SS	214	Uy	O&P
RDFqer	2:mJ1	242	1 m	142	1m1	2yU60	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
LIpatlr &NlaTasa	3-7S0	3FPlDer Fliablr las	um
-NqFiatlr &NlaTasa	3-7S0	TqNiq FaM Cl.Das	1
TlilAacqlatCobedDnas	2S2:JS0J12a1:s14sS:	TlilMqNablr las	S1 3-7Um

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
7lFlnqer	1J2	111my6	111y26	11: Sy	112444	SUm2	C&P
YiilDpqer	102J1	S	60	m	m	14U2y	C&P
YiilDpqer	102J2	2m	10	:y	2m	:yUy	C&P
YiilDpqer	106J1	1110	110	122	1102	4U6:	C&P
YiilDpqer	106J2	yy6	11S20	1S21	1S4S2	U4	C&P
YiiDqer	myJ1	116ym01:	11yS4646	122:mS06	11y4014	2U2m	C&P
YiiDqer	myJ2	1:S04y	12m14Sm	12y662y	12y 100	1US1	C&P
ZqFO	66J2	20 4	226:	10y1	226y	SUy2	C&P
ZqDO Fqer	ySJ1	62	642	42	6S:	mUmy	C&P
ZqDO Fqer	y1J1	2 S	2 m	2 S	2 :	1UyS	C&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LIpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
dNer qFqer	20:2	11S	1S1	s2	1S1	m104	O&P
dFiq .Fh	121:1	627	7s2	m7S	6ms	2SM4S	O&P
dDPlFqO	07:2	12	1S	7	s	4SN36	O&P
BlDqer	1 7:1	7S	m	07	6s	24Nsm	O&P
BlDqer	1 0:1	s2	m	127	1SS	22N37	O&P
BlDnNqer	s:1	66	6s	74	6	12N0m	O&P
BqPr eiE	2Ss:1	670s072	64s6S62	64S01s	64s4 7	1M	O&P
BqPr eiE	2Ss:2	S0m4S6	Ss11SS	141742	1S 6m	1N3m	O&P
BDr qFl	m1:1	s10	s7s	4S 4	s0S	1M4s	O&P
-lnr qer	1Sm1	10	m	2s	2m	0N04	O&P
-lnr qer	1S6:1	s26	71	7s2	62	0N40	O&P
-lnr qer	111:1	41m	46	ms	m4	sM42	O&P
-lNqer	4 :1	2S0	242	2S4	21m	sM11	O&P
-lNqer	44:1	2177	1m12	212S	2S2s	SM7s	O&P
-lDp.F	12:1	22Ss 6S	217m101	216ss	210s174	1N2	O&P
-lDp.F	12:2	202s	26sSS	20 7s	201m4	SN41	O&P
-ENDqFl	7:1	m61 s	mSm42	mSmSs	m27s6	N01	O&P
-ENDqFl	7:2	660	67m	6	67	2N06	O&P
-EDr qer	72:2	1S0	1S4S	1S6	1S7s	1N02	O&P
-.plN	7s:2	s	70	1SS	m	2mN3S	O&P
-.&&lD	6 :2	67	6SS	610	62	4Mm	O&P
ThP&DPqer	176:1	m	m	S	6	m6N0S	O&P
ThP&DPqer	176:2	1S	0	S	6	s1N04	O&P
UDpqer	164:1	7S	42	42	44	1SM12	O&P
UDpqer	164:2	0		20	2	17MS	O&P
Gln.NqFqer	16S:1	07	s2	s2	m6	11M1m	O&P
Gln.NqFqer	16S:2	1S0	12S	14S	122	1 N0	O&P
H.NqNqer	167:1	s1s2 72	sSm21S0	ms462 2	sS0 764	1M6	O&P
H.NqNqer	167:2	smmsS0	sms4S6	sm1m6s	sm6020	SM11	O&P
3FnqNqer	117:1	6600 m	66 S4	6741226	6610210	1N37	O&P
3FnqNqer	117:2	s6 20s	s777S0	s4m2 s	s77607	SN0s	O&P
3DF	74:2	461	42m	460	472	4N06	O&P
3DF	76:2	60	12	112	2SS	4M71	O&P
3DF	70:2	m	s4	1SS	s	sM16	O&P
KDh&i.F	m :1	17	24s	26s	200	12N27	O&P
LIln	2S6:1	1S	s10	ss7	sm2	6N37	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LlpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
LlIn	2S0:1	m2m	07S	0ms	0ms	4Ns4	O&P
LlIn	2Sm1	41SS	4S2	7s7	sS6	6Ns10	O&P
LqEqer	6:1	24 6472	244S420	2 s21 S	242 SS	1M11	O&P
9lgFlPqer	24:2	s2	1Sm	110	1S6	12N36	O&P
9lFglFlPl	77:2	4S	7S	70	4s	10M16	O&P
9.NpnlFer	s4:1	1s2	17m	110	176	24M16	O&P
9.NpnlFer	s7:1	m	m		42	s1N06	O&P
9.NpnlFer	s6:1	1	1	127	1 1	N0s	O&P
9.NpnlFer	s0:1	42	m	42	1	62Nds	O&P
9.NpnlFer	sm1	07	60	1SS	m1	21N7	O&P
bl.nhrqer	17S:1	2S	2S	0	16	4sM10	O&P
bl.nhrqer	17S:2	S	S	S	S	SN3S	O&P
bqOklN	6S:2	70	6S	4S	72	2SM72	O&P
uE.P&E.DeP	1:2	210	10	210	27S	2 N3s	O&P
u.ilPPqer	s:2	1S601	1S221	1S4S4	1S4 2	2M10	O&P
yE.nqer	1S :1	6s740S0	6771m74	6647747	6010 6m	M14	O&P
yE.nqer	1S :2	17202m	SmmSsS	S711s4	Ss0 0	1N06	O&P
tOlFnqer	47:1	4 mSmSs	4242S62	4 120m2	4 11mm4	1N61	O&P
tOlFnqer	47:2	147 1	14 S67	14 40s	14 s7m	SM14	O&P
tlNlFqer	m2:1	:4s	1s	:1m	:16	:21 M7	O&P
tlNlFqer	00:2		S	S	1	10 N21	O&P
tlNlFqer	0m2	16	22	2S	1s	17MS	O&P
tqNlD F	2m1	100s1s	104 6s	10SsS	104 s0	2N31	O&P
tqNlD	1S0:1	2	7S	10	SS	2SN3	O&P
tqNlD	1Ss:1	2m	160	SS	27S	2sN36	O&P
t.nqer	2 :2	24s22	2 s47	24201	24 0s	2N34	O&P
tiDFiqer	m6:1	727	707	4	711	14N36	O&P
tiDFiqer	mm1	14	m7S	m7S	1S47	2N27	O&P
teNeD	4:1	S4Ss	S20 0	S70 6	S41ms	SM4s	O&P
clDqer	17s:1	s147146	s m627	s122426	s210s42	1N7s	O&P
clDqer	17s:2	s 66sS	s16062	m00 Ss	s1S27	SN70	O&P
cElNqer	2S :1	642	460	742	77S	17Nd6	O&P
cElNqer	2S7:1	1 60	14SS	12s2	1 7	4M1S	O&P
cqF	11m1	1SSS	1S27	11	1S7	6N0	O&P
cqlFqer	40:1	1SS	17S	107	142	26Nd6	O&P
5DFqer	2 m1	07	10	m		1SmN0	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJber plDa	LB1264S0	C&lDi.Da	wlP8lN
LlpJtlr &NJBTJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NqFiJtlr &NJBTJaJ	3-BS07	TqNiq FJRlO.Da	1
TlilJAJcqlJdObedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-ut ytT	5FqP
VlFlnqer	71:2	7S	1S	1	24	sSMS	O&P
YiilDqer	102:1	s2	7m	07	07	22M2	O&P
YiilDqer	102:2	2m	44	11	2m	6SM1	O&P
YiilDqer	106:1	12	1707	12Sm	1 s	17MS	O&P
YiilDqer	106:2	sm4	1S 01	1SSSs	1SS04	2M3m	O&P
YiiDqer	ms:1	12S70402	11s061Ss	11s4661s	11ss 4SS	SM4m	O&P
YiiDqer	ms:2	12mssS6	1264S 6	1276m42	120S261	1M0	O&P
ZqFO	66:2	14S	14	1s	17s	1mMS	O&P
ZqDO Fqer	sS:1	4s2	7m	4s2	722	1SM14	O&P
ZqDO Fqer	s1:1	7S	7m	m	64	20M16	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
ur p q qr p	20a2	J09S: 4:	Jbb: 22:	J922S62	Jb6: 944	1F0:	d&8
. iqp C. y	121a1	69b:	6994	646S	6b1J	4F49	d&8
t8D. qpl	0: a2	0:	bJ	06	0b	: F 9	d&8
BPtqr p	1J: a1	16SS	1: : S	1642	1: 90	2Fb0	d&8
BPtqr p	1J0a1	26b4	26S9	2042	260b	2F S	d&8
BDtyuqr p	9a1	419	44:	Jb9	410	6F04	d&8
Bq8p r ih	2S9a1	: 9: 14J2	: 9: S9S4	: 990120	: 9664b0	SF44	d&8
Bq8p r ih	2S9a2	29SJ9bS	296JS16	2b4: J: 9	29S411b	2FSJ	d&8
BtCp q D	b1a1	J: 26	J: b4	J910	J606	: F0:	d&8
- Pop qr p	1Sba1	1646	1: SS	1: Jb	1: 61	4Fb:	d&8
- Pop qr p	1S6a1	J: : 1	J692	JJ2:	J: 2J	: F2:	d&8
- Pop qr p	111a1	1SS0	122b	994	1S06	12F2S	d&8
- Pudqr p	4Ja1	1J06b06	141: SJ2	14J12: 1	14S002S	1F9b	d&8
- Pudqr p	44a1	224b6291	22611044	2204bSb:	2261: J0J	SF b	d&8
- Ptl C.	12a1	11JS2: bS	1126bS04	1122JJ00	11264600	SFJ:	d&8
- Ptl C.	12a2	14Jb16	1421b4	14S19b	142S66	1F2b	d&8
- huCtq D	J: a1	6J: 1262	00SJ9: 6	9S99: 10	001b24:	10FbS	d&8
- huCtq D	J: a2	bb: 62	949: J	99140	94221	: F66	d&8
- htCp qr p	: 2a2	2919J	2b6J:	2902b	291b:	1Fb0	d&8
- Cl Pui	: 9a2	J104	J19S	J110	J16S	1F22	d&8
- C&&Dt	6Ja2	1: : 49	1: bS2	1: J: 2	1: : 60	1F4:	d&8
Ty8&tC8qr p	1: 6a1	S	b	60	2:	14: FJ1	d&8
Ty8&tC8qr p	1: 6a2	1J	J	1J	1S	: 0F0:	d&8
Etl qr p	164a1	: S	1Sb	1SS	b6	J6F64	d&8
Etl qr p	164a2	40	4S	J0	41	12FJ9	d&8
GPoOuqqr p	16Sa1	60	bJ	142	90	4SF S	d&8
GPoOuqqr p	16Sa2	110	1JS	1: S	1J2	12F69	d&8
HOup qr p	16: a1	b6S0194	b0: 04b:	bb6: 02J	b04J460	1F4b	d&8
HOup qr p	16: a2	JbJ101J	Jb: 9: : S	J9b2620	Jb91290	2FS6	d&8
3 oqr p	11: a1	6140J: J	614: 4S1	610J299	61: : J: 1	SF2:	d&8
3 oqr p	11: a2	b9J916	b9J1b6	9S21: b	b9642S	SF 6	d&8
3tC.	: 4a2	6: 66bb:	64S0bb1	6461: S0	640b0: b	1F2:	d&8
3tC.	: 6a2	110290: 42	11b246J14	110J9b2J6	110640J64	SF44	d&8
3tC.	: 0a2	JS: S4Jb	JSb: 4J:	JS0: Jb9	JS0S421	SF 9	d&8
Kty&iC.	bJa1	262	2J1	216	2J0	9F90	d&8
LDPo	2S6a1	210bS	2JS21	24496	2JS99	: Fb9	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	109: 0	1bJbS	1bJbS	1b2J9	1FJ4	d&8
LDPo	2Sba1	b401:	b009:	9S: J6	b06b2	JFJ2	d&8
Lqihqrp	6a1	2JS4: bJ	2JS469b	2204691	22946: 0	SF0:	d&8
RPg. D8qrp	24a2	1S446: Sb	1S: 49692	1S: 10bJ0	1S: S4609	SF: S	d&8
RP. gP. D8D	: : a2	: 494	: 6J1	: 69:	: 6S0	1Fb2	d&8
RQyl oD. r p	94a1	20SS: 44	2bS: 6S4	2b229: 2	2006J60	2FJ9	d&8
RQyl oD. r p	9: a1	4b2S1SS	40: 6b6:	496J661	4b46b0:	2F19	d&8
RQyl oD. r p	96a1	: 10S09:	: 14b92:	: 296SS0	: 2S: 24J	1F: 2	d&8
RQyl oD. r p	90a1	296bJ94	29941J1	JSJ4SS1	299bb42	1F1S	d&8
RQyl oD. r p	9ba1	0006b09	0bS: 9S0	094bbbb	0b4Jb91	1F10	d&8
e DCoyp qrp	1: Sa1	40	: J	2S	4S	44FS9	d&8
e DCoyp qrp	1: Sa2	1S	0	10	11	4: Fb2	d&8
e qdkDu	6Sa2	41J4	4SS0	4220	412J	2F6b	d&8
mhC8&hCtr 8	J1a2	1960J2	1900Sb	196900	1901J9	SF26	d&8
mCiP88qrp	J9a2	601JJ6J	66Sb4: 2	60: b00J	669J: 29	1F1:	d&8
5 hCoqrp	1SJa1	6S20: b2	6S6S: 64	61: JJ6:	6SbS: SJ	1FS0	d&8
5 hCoqrp	1SJa2	2b6S449	29S9911	2bb4J4S	2bb49SS	SFb6	d&8
7 dP. oqrp	4: a1	J9: b406	4S24bJ2	4SS094b	J990Sb6	SFb6	d&8
7 dP. oqrp	4: a2	1J: 1bS	1J4422	1J: 6J4	1J: S0b	SF4:	d&8
7 DuD. qrp	b2a1	11	a	9	:	10: FS0	d&8
7 DuD. qrp	00a2	S	S	S	S	SFSS	d&8
7 DuD. qrp	0ba2	1S	b	1:	11	J2F0b	d&8
7 qqqdC.	2ba1	2bS: 2:	2069S0	200466	20b299	SF0S	d&8
7 qqvDt	1S0a1	2SS	210	260	22b	1: F2J	d&8
7 qqvDt	1S9a1	142	260	160	192	J4F: 1	d&8
7 Coqrp	2Ja2	19b06929	19662S64	1906b4bS	190691: b	SF: 4	d&8
7 itC. iqrp	b6a1	46: 9:	46J44	40941	4696S	1FbJ	d&8
7 itC. iqrp	bba1	4141S6	411S: 1	41Sb: 6	412SS4	SF44	d&8
7 r ufir t	J4a1	222: 1: 6	2249409	22622: J	224: 629	SFb4	d&8
cDtl qrp	1: 9a1	b494299	b9b0992	916J0: S	bbb2S14	JF91	d&8
cDtl qrp	1: 9a2	JbJ41: 1	Jb00126	Jb20: 20	Jb4626b	SF0S	d&8
chPuqrp	2SJa1	14Sb	142:	11: b	1JJ1	11F2J	d&8
chPuqrp	2S: a1	26: 9	J6S9	2b92	JS: J	16F22	d&8
cq	11ba1	24S9	2S60	2b92	24: 6	16Fbb	d&8
cqiP. qrp	40a1	1J0JS22	14J0J44	14J1SSb	141J092	2F: 1	d&8
MtP. qrp	2Jba1	62:	4bJ	: : S	: : J	12Fb2	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 S0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2Sv24	TPiPUqpDse Pp Dsw	S103-7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	20J	10J	2S0	21b	2JFJb	d&8
YiiDtl qrp	102a1	2:	42	60	44	40F19	d&8
YiiDtl qrp	102a2	22	22	22	22	SFSS	d&8
YiiDtl qrp	106a1	1S92	1210	1242	11bJ	6F09	d&8
YiiDtl qrp	106a2	9J06	9626	949J	949b	1FJ2	d&8
Yiitqrp	b9a1	11Sb229:	1141: 199	11J9J0J6	11290S00	1F6:	d&8
Yiitqrp	b9a2	119bJJS	1212JS6	12S1S64	12SJ9SS	SF62	d&8
Zqd	66a2	2000	2b04	2660	200J	JF0J	d&8
ZqdC. qrp	9Sa1	: : b	40:	0Sb	: b1	2SFJ0	d&8
ZqdC. qrp	91a1	1: b	1JJ	1: b	1: S	9F62	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 BS0:	Tqpr ioqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqqDse Pp Dsw	S1b3 7BFo

mPtPp DiDt	R P88	- m7 1	- m7 2	- m7 J	- m7 R DP.	- m7 5 7 T	M. qi8
ur p q qr p	20a2	Jbbb426	Jb696Jb	Jb0: 2S6	Jb000: 0	SF2:	d&8
. iqp C. y	121a1	9b4bS	1S20: 2	1S41bb	1S1bS0	2F92	d&8
t8D. qpl	0: a2	20S0	200:	204S	204S	1F24	d&8
BPtqr p	1J: a1	211b4	2JS12	22061	22J19	4F44	d&8
BPtqr p	1J0a1	J91bJ	412: :	J9JSb	J991:	2F91	d&8
BDtyuqr p	9a1	24b1b	2: J14	2: 624	2: 2: 2	1F61	d&8
Bq8p r ih	2S9a1	: 694J61	624S: 04	611: J: 2	6S1606J	4F06	d&8
Bq8p r ih	2S9a2	2914112	JSS6bJ4	2946b02	29: : 9J9	1F. 9	d&8
BtCp q D	b1a1	J: 92	J942	J092	J006	4F6:	d&8
- Pop qr p	1Sba1	2942	J110	JS92	JS: S	JF1S	d&8
- Pop qr p	1S6a1	: J1b	: 6: 1	: 64J	: : J0	JF4J	d&8
- Pop qr p	111a1	2J4Sb	24216	2420b	2J960	2FSJ	d&8
- Pudqr p	4Ja1	14201b4	14: : 2b9	1444J90	144229S	SF9b	d&8
- Pudqr p	44a1	22: 6b2: 2	2J1b0024	2J641bJ2	2J1J26SJ	2FJJ	d&8
- Ptl C.	12a1	111bJJbS	11622949	1166J0: b	1149SS29	2FJ2	d&8
- Ptl C.	12a2	14: 40:	14: 0b6	14: 1Jb	14: 466	SF22	d&8
- huCtq D	J: a1	1SJJ411J	12446S2J	1J94411S	1224141:	14Fb2	d&8
- huCtq D	J: a2	11b2S6	12: J91	129: J:	124J00	4F61	d&8
- htCp qr p	: 2a2	: 02S1	: 01bS	: 0bS6	: 0J96	SF62	d&8
- Cl Pui	: 9a2	: J296	: 4S22	: 29Sb	: J4S9	1FS6	d&8
- C&&Dt	6Ja2	: : 6J9	: : 404	: : 264	: : 4: 9	SFJ4	d&8
Ty8&tC8qr p	1: 6a1	2:	: S	b	2b	0: F. 1	d&8
Ty8&tC8qr p	1: 6a2	1J	10	2J	1b	2bF64	d&8
Etl qr p	164a1	92	2:	92	69	: : F4J	d&8
Etl qr p	164a2	J0	20	4J	J6	2JF. b	d&8
GPoCuqqr p	16Sa1	12:	110	bJ	1Sb	2SFJ:	d&8
GPoCuqqr p	16Sa2	12J	1S0	1S0	112	bF. b	d&8
HCup qr p	16: a1	b411122	91: : 2: 4	b66024:	b044: 4S	4FJ2	d&8
HCup qr p	16: a2	J964266	J9906S0	4SSJS0:	J9bbJ16	SF. J	d&8
3 oqr p	11: a1	: bS: 4J4	64: 94J4	61S2S: 0	6122JSb	: FJ:	d&8
3 oqr p	11: a2	9S6b12	9S9104	91: J9J	91S46S	SF49	d&8
3tC.	: 4a2	66S: 120	6619S: 4	60: : 66J	66: 994b	1F2:	d&8
3tC.	: 6a2	12S4440J9	1210S19: S	12J4101: b	121b: 4616	1F22	d&8
3tC.	: 0a2	JS662: 4	JSb: 2b9	J1SJ: 1S	JSb: S1b	SF6S	d&8
Kty&iC.	bJa1	222	2: :	260	24b	9FJ6	d&8
LDPo	2S6a1	12: JJS	1200bS	126949	1266b6	SF9b	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	1S: JJ1	1Sb014	1SbS2S	1S0J: :	1F66	d&8
LDPo	2Sba1	4b400:	: S1S06	: SJ640	496499	2FS6	d&8
Lqihqrp	6a1	221b121	2J1J49J	2249641	226S41b	2F1:	d&8
RPg. D8qrp	24a2	1S: bJ0S6	1S04J46S	1Sb2Sb: 1	1S016SS6	1F1J	d&8
RP. gP. D8D	: : a2	199S1	190bS	19J0J	196b:	1F4S	d&8
RQyl oD. r p	94a1	2066S90	292: b40	2bJb214	2b4JJb6	2Fb1	d&8
RQyl oD. r p	9: a1	4bS9b21	499SbS0	4b: bS: 6	4bb622b	1F92	d&8
RQyl oD. r p	96a1	: 211166	: JJ111J	: Jb99b:	: J1S0: :	1F02	d&8
RQyl oD. r p	90a1	2969: 62	JS0: 1S4	JS0b: 1J	JS41S6S	2FS4	d&8
RQyl oD. r p	9ba1	0bS2J99	0b: 22: 2	099: : 9S	0bbJ41J	1F20	d&8
e DCoyp qrp	1: Sa1	20	4S	2S	29	J: F2:	d&8
e DCoyp qrp	1: Sa2	J	1J	J	0	b6F6:	d&8
e qdkDu	6Sa2	10414	10061	10b21	10666	1F24	d&8
mhC8&hCtr 8	J1a2	2SS429	2SS491	19060S	199: JS	SFb1	d&8
mCiP88qrp	J9a2	0S1J2S9	66: bJ1b	696J1b0	6b0b2Jb	2F09	d&8
5 hCoqrp	1SJa1	: b24691	6224121	6S02J22	6S4SJ0b	JFJ4	d&8
5 hCoqrp	1SJa2	2b6J6b0	29: 1S9:	2b: 026J	2b9S6b2	1Fb1	d&8
7 dP. oqrp	4: a1	Jb9b4: S	410: 242	41449: :	4S02bb2	JF0J	d&8
7 dP. oqrp	4: a2	1J69JJ	1JbS91	1J9bJJ	1Jb2b6	1FS6	d&8
7 DuD. qrp	b2a1	10b1	1692	1604	1016	JFJ:	d&8
7 DuD. qrp	00a2	40	6J	6S	: 0	1: F. 6	d&8
7 DuD. qrp	0ba2	21S	19:	2S2	2S2	JF01	d&8
7 qqqlC.	2ba1	2b: JS0	2b266:	2bb6b1	2b: : : 1	1FS6	d&8
7 qqvDt	1S0a1	12S266	122: 1b	12SJ0J	121S: 2	1FS:	d&8
7 qqvDt	1S9a1	11JSJ1	116666	1169: 4	11: : : S	1Fb9	d&8
7 Coqrp	2Ja2	19060612	19bJ6642	2S1: : bS6	1992SS2S	1FS4	d&8
7 itC. iqrp	b6a1	4b619	4b011	490: 6	49S2b	1F29	d&8
7 itC. iqrp	bba1	4S9b22	42SS: 1	426291	41b021	1F99	d&8
7 r ufir t	J4a1	2JS6Jbb	22b06b0	22044S4	22b949J	SF0S	d&8
cDtl qrp	1: 9a1	b: J44b1	9J6S2: 1	9S09S10	b9912: S	4F60	d&8
cDtl qrp	1: 9a2	J0: JS: 4	Jb90: 6:	Jb99J01	Jb49990	2F1b	d&8
chPuqrp	2SJa1	110: S4	121S01	1211bb	119921	1F0:	d&8
chPuqrp	2S: a1	209100	2b: 4: 6	2bb1b2	2b4202	1F62	d&8
cq	11ba1	2J10	26SS	240:	2464	: F06	d&8
cqiP. qrp	40a1	14JS24J	14b16S4	1: 1S0bb	1404211	2F00	d&8
MtP. qrp	2Jba1	: bJ	: : S	6Sb	: b1	: FS4	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2JvtJ	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	21206	2S969	21b1J	21J: J	2FSS	d&8
YiiDtl qrp	102a1	: b	: S	JJ	40	26F96	d&8
YiiDtl qrp	102a2	2b	10	2b	24	26F64	d&8
YiiDtl qrp	106a1	1110	1192	1110	1142	JF09	d&8
YiiDtl qrp	106a2	9: 1:	969b	1S21:	9bS9	JF0S	d&8
Yiitqrp	b9a1	111116S4	11: bb: S2	11J0: : 4:	11J: b: : S	2F1S	d&8
Yiitqrp	b9a2	12S0: 2:	12: 4404	12Jb6b1	12JJ: 6S	1F94	d&8
Zqd	66a2	0019	0699	066:	0694	SFJ:	d&8
ZqdC. qrp	9Sa1	: 92	660	0JJ	664	1SF6b	d&8
ZqdC. qrp	91a1	1: S	92	1SS	114	20F0S	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S27	T&piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwR&p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
d8be qFdpe	20 2	2S620U2	2S2762U	2S741u6	2S4S2S2	SM0U	Ol l
dFiqe . Fh	121 1	2a441Su	2a6U20a	2a4a777	2aa2USa	SM46	Ol l
dIl pFqO	0a 2	604aa	607a4	6auu6	66uUu	1M71	Ol l
Bwldpe	17a 1	2u40Sa7	2U26171	2u7U026	2u0SU0S	1M60	Ol l
Bwldpe	170 1	4uuuS2a	4UU1172	4U74S6u	4U70042	1M3a	Ol l
Bplh8&pe	U 1	61S442	6107a0	62SUUa	61626a	SM10	Ol l
Bdqe biE	2SU 1	a40a7Sa	aU22212	auU62a0	a064aU2	4M7a	Ol l
Bdqe biE	2SU 2	2u4S10U	2uSSS22	20074a1	2uS4aa1	1M2S	Ol l
Bl. e qFp	u1 1	41a1	42u4	41U2	42SU	1M62	Ol l
3 wne dpe	1Su 1	a1777	a2711	a210u	a1U41	1M32	Ol l
3 wne dpe	1S6 1	0720U	07Uu2	02uSU	077a0	SM1S	Ol l
3 wne dpe	111 1	61U741	67Sa2u	62U06u	626a46	1M3S	Ol l
3 w&Qdpe	47 1	70a10S0	701uuS2	702S61u	707S706	SM4S	Ol l
3 w&Qdpe	44 1	aU2UUSUU	6S1SS474	aU411a70	aU6S76US	SM07	Ol l
3 wlr . F	12 1	24uu121	2a647U6	2aUa1a2	2a4U227	2M16	Ol l
3 wlr . F	12 2	7aSu4	7a706	7a21u	7a226	SM42	Ol l
3 E8 lqFp	7a 1	7401aU4	7204161	7S0S0US	72021u2	6M12	Ol l
3 E8 lqFp	7a 2	2Sa72	1uu7u	10076	1US7a	0M4S	Ol l
3 El. e dpe	a2 2	01u024	01a426	017S14	01a021	SM4S	Ol l
3 . r w8	aU 2	126S72U	12uu116	12a6aSa	126u710	1M76	Ol l
3 . t t pl	67 2	11SSa20S	11S12uUu	1S6ua0ua	1SUS171u	1M01	Ol l
Thl t l. l dpe	1a6 1	610	6aS	a0a	614	6M12	Ol l
Thl t l. l dpe	1a6 2	2u0	70S	720	72u	12M02	Ol l
Glr dpe	164 1	1au	22a	110	160	72M0U	Ol l
Glr dpe	164 2	67	4S	60	a0	2aM04	Ol l
Hwn. &qFdpe	16S 1	660	0SS	660	60u	2M14	Ol l
Hwn. &qFdpe	16S 2	40S	4S7	4a0	447	0M06	Ol l
K. &e dpe	16a 1	0U0U77S	US0S772	US6077S	u0Sa664	0M27	Ol l
K. &e dpe	16a 2	7u06a67	7u0S70a	7U11600	7uu62Sa	SM40	Ol l
&Fndpe	11a 1	aa66001	61u4717	624u014	aUUUU77	6M2u	Ol l
&Fndpe	11a 2	u0uS1a	u6uaSU	u0aSaU	u07u61	SM46	Ol l
&. F	a4 2	u1u7SU4	u70u20a	u744uUU	u7S2SuU	1M26	Ol l
&. F	a6 2	1a1272071	1a1066SSU	1a1u4SUu0	1a1617242	SM22	Ol l
&. F	a0 2	70u4020	7U1077a	7u27u6U	7u41U00	1M00	Ol l
glht i. F	u7 1	2a6	2aU	261	2aU	SM0	Ol l
Lpwn	2S6 1	1217S7a6	1217a444	12Sa06u6	121S0u2U	SM76	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	T 8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqjl
Lpwn	2S0 1	1S66UuUU	1S640727	1S76u261	1Sa61u2u	1M4U	Ol l
Lpwn	2Su 1	4u4U2a70	4U1ua0S4	4u6uau10	4u0uuS1U	SM07	Ol l
LqiEdpe	6 1	2112USS	2227U12	222400u	21u01U6	2M04	Ol l
9 wkFpl dpe	24 2	2u2aSU60	20u71aa7	2u71a41U	2u172646	SM07	Ol l
9 wFkwFpl p	aa 2	7u26S77	7041a07	7uSSS44	70uU216	1M14	Ol l
9 . 8hr npFbe	U4 1	U64u26S	U611Uaa	UauaUSU	U61a70a	SM77	Ol l
9 . 8hr npFbe	Ua 1	170u126U	14116SUa	17Uu4S70	17U6S460	1M21	Ol l
9 . 8hr npFbe	U6 1	14U44422	1a76aS62	1aa6S6U6	1a2USS6S	2M36	Ol l
9 . 8hr npFbe	U0 1	u674SU1	u66aU20	uu12716	u0S4111	1M3U	Ol l
9 . 8hr npFbe	Uu 1	22S2S046	22a0u067	22076021	2244a41S	1M6u	Ol l
mp. nhe dpe	1aS 1	2a7	277	277	24S	4M1	Ol l
mp. nhe dpe	1aS 2	4S	aS	70	42	16M47	Ol l
mqOvp8	6S 2	746S6S	74a0uu	74212u	7446aU	SM04	Ol l
NE. l t E. lbl	71 2	2S7a6	21S41	21S04	2Su24	1M1a	Ol l
N. iwl l dpe	7U 2	u0ua211	uUS2226	uU4Ua70	uu0uUU2	SM1a	Ol l
y E. ndpe	1S7 1	a47022a	6S622S0	6140a2U	auu272S	6M4U	Ol l
y E. ndpe	1S7 2	2006170	2001700	2001S20	2002u40	SM1S	Ol l
DOwFndpe	4a 1	7010uSU	42S774S	4SaU6Ua	7UU7614	6M2a	Ol l
DOwFndpe	4a 2	174722	176S01	176aSu	17a674	SM1a	Ol l
Dp8pFdpe	u2 1	4aUS1	40172	46uU2	46642	1M4S	Ol l
Dp8pFdpe	00 2	12uS	14aS	14SS	1700	6M7a	Ol l
Dp8pFdpe	0u 2	4u72	4664	4uu7	40U7	2M7U	Ol l
Dqq8O F	2u 1	20a0uaSa	204uuS01	20a6UU46	20a4aaSu	SM1u	Ol l
Dq8pl	1S0 1	72u0407	77uUu20	77a06aU	7744Uu6	1M46	Ol l
Dq8pl	1SU 1	71a7u1U	7146SUS	71Uu114	7166SSu	SM1U	Ol l
D. ndpe	27 2	4U600406	4U264477	4U7a016u	4U477S26	SM44	Ol l
Dil. Fidpe	u6 1	1uu7200U	1u6u20Ua	1u6467u6	1u02S6a7	SM47	Ol l
Dil. Fidpe	uu 1	161S2aS66	161674124	1614u01UU	1617u217S	SM2S	Ol l
Db8Vl	74 1	a416U4	a4U7aa	a4U242	a46064	SM1S	Ol l
cplr dpe	1aU 1	u774S62	U1S0u40	US72U24	uu24U4a	4M4	Ol l
cplr dpe	1aU 2	7u26U0U	76U7U2U	70u1721	706041S	1M7U	Ol l
cEw8dpe	2S7 1	2uUU101	2U1U6U1	2uau742	2uU24S1	1M3u	Ol l
cEw8dpe	2Sa 1	6u21664	6Ua441u	6UaS62a	6USuUS2	1M3U	Ol l
cqF	11u 1	2S0S4S1	211S164	211a07S	2SUu06a	1M1u	Ol l
cqwFdpe	40 1	76a6S46	70S7726	704aU61	70S1000	1M22	Ol l
5 lwFdpe	27u 1	1SS61007	1S4SU1u2	1S44u616	1S7S6a24	2M30	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	a1 2	aau667	aa77a4	aaU0u7	aa0266	SM62	Qt l
Yiiplr dpe	102 1	2SS	1U2	160	1u6	UM72	Qt l
Yiiplr dpe	102 2	0u	1S6	U4	U7	1aM1S	Qt l
Yiiplr dpe	106 1	176u7	14S41	14S2a	17U16	1M4a	Qt l
Yiiplr dpe	106 2	146u6	144U2	14u14	14664	1M11	Qt l
Yiildpe	uU 1	1S602u64	1174u211	110a6212	112aUSUa	4M16	Qt l
Yiildpe	uU 2	12112Sa	12SS27a	12S2ua1	12S4064	SM4u	Qt l
ZqFO	66 2	12067S0	120612a	12600S7	120770u	SM7U	Qt l
ZqlQ Fdpe	US 1	44624Uu	4402777	4407616	446U4u2	SM14	Qt l
ZqlQ Fdpe	U1 1	U06427	UU4SuU	1SS2u70	UU1116	1M76	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFLb

8 sps b r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
qPmb c omb	2072	4J1	2S2	1yJ	2N4	6- LyN	dDw
q. Tdb C. h	12171	J2y	11SS	1242	1SNJ	14Ly0	dDw
qpwr . cd	0y72	12	y	0	N	4yLS0	dDw
Bspomb	1- y71	2yS	2yN	- SS	26J	JLJ4	dDw
Bspomb	1- 071	- - -	- 0y	y2y	411	24Ly-	dDw
Br phPmb	J71	1S6	12S	114	11-	6LSN	dDw
Bcwb mTE	2SJ71	yJ1NN12	6y46- 11	6Ny4JS1	644SSSN	0L41	dDw
Bcwb mTE	2SJ72	2JJN26S	- SN20N2	- S461- J	- S42- J-	1LJ J	dDw
BpCb c r	N171	- 610	4S- 4	- JyJ	- N0S	yL04	dDw
3 sob omb	1SN71	42	2y	2J	- 2	20L1y	dDw
3 sob omb	1S671	- S60	- 026	4S- 4	- 6SJ	1- L6J	dDw
3 sob omb	11171	41J	4- S	yyS	466	1yLy2	dDw
3 sPdomb	4- 71	y44	y0y	yJ4	y01	4L42	dDw
3 sPdomb	4471	4y40y	44J42	4y2S0	4y2SN	SLyJ	dDw
3 speC.	1271	21- 0Jy0	21- J12N	21162Jy	21- 1120	SL6S	dDw
3 speC.	1272	26104	26S1y	26SJJ	26SJ6	SLJ S	dDw
3 EPOpc r	- y71	1y06Sy1	1ySS- N0	14y0Jy4	1y11464	- LJ6	dDw
3 EPOpc r	- y72	JJ2J	Jy62	J1Jy	Jy62	- L0N4	dDw
3 EpCb omb	y272	111S	11SS	1S1-	1S04	4LJy	dDw
3 CesPT	yJ72	10S	yS	6-	J4	6JL64	dDw
3 CDDr p	6- 72	244S	1y4S	1- 2-	106N	- - LyS	dDw
&hwDpOwomb	1y671	S	N	N	6	N6L6S	dDw
&hwDpOwomb	1y672	S	-	-	2	N6L6S	dDw
Fpeomb	16471	60	60	2y	y-	4yLyN	dDw
Fpeomb	16472	2-	4S	- S	- 1	26LJ0	dDw
GsoCPe omb	16S71	1SS	0y	N-	N6	14L0N	dDw
GsoCPe omb	16S72	1y-	14-	110	1- N	1- L06	dDw
HCPb omb	16y71	N- - N- y4	NJSSy0N	JN- N44J	JS2y0J4	NL4S	dDw
HCPb omb	16y72	- J61S- -	4S06- 0S	4S46042	4S2NS4N	1L4J	dDw
t. oomb	11y71	6SN44SN	6616NyJ	01N4214	662N4J4	NLJ S	dDw
t. oomb	11y72	JyS- 0-	J0S- N1	J4N- 6y	Jy6- 0-	1L20	dDw
tpC.	y472	1211	6J4	0y6	NN0	- 1L0N-	dDw
tpC.	y672	1N- J0	660y	62JN	1S4y0	6yL0J	dDw
tpC.	y072	460	20N	- 11	- y2	2NL6y	dDw
KphDTC.	N- 71	21J	24y	244	2- 6	6L2N	dDw
Lr so	2S671	20Jy	2460	21yS	2401	1- LSy	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlu

8 sp sb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Lr so	2S071	1JS6	21- 4	2SSS	2S1-	yl6J	dDw
Lr so	2SN71	J- 6-	J1J6	J1y0	J2- J	1U1N	dDw
LdEomb	671	21JyNN0	2- 0- - 2J	2446NNy	2- - N0S1	ylyl2	dDw
5 sg. r womb	2472	- N1S	y0y	60y	16N0	1SJUS6	dDw
5 s. gs. r wr	yy72	- 1S	120	1y-	1J0	ySUJ6	dDw
5 OPheor . mb	J471	10SS	14SS	1- SN	140S	1- UJ4	dDw
5 OPheor . mb	Jy71	2- 10	21- 4	2106	22SJ	4UJy	dDw
5 OPheor . mb	J671	2060	2110	2- J2	242y	1- U46	dDw
5 OPheor . mb	J071	14N4	11- -	1- yS	1- 22	1- UJ6	dDw
5 OPheor . mb	JN71	- 460	- 1S1	416N	- y0J	1yU16	dDw
ur Cohb omb	1yS71	1-	0	1-	11	- 4U61	dDw
ur Cohb omb	1yS72	S	-	S	1	10- U21	dDw
udkr P	6S72	0S	0-	0-	02	2U66	dDw
8 EOwDEOpmw	- 172	10y	22y	1J2	1J0	12UJ1	dDw
8 CTswwomb	- J72	144J1	1- - 0-	1- 4y0	1- 004	4lyl2	dDw
9 EOomb	1S- 71	612yN00	6yJS- 40	016- 142	66264yy	0UN4	dDw
9 EOomb	1S- 72	- 1S660N	- 2206y0	- 142- - 1	- 1yNNNJ	1UJ0	dDw
l ds. oomb	4y71	- N- J00S	4260yS0	4y2y422	421SJSS	NU22	dDw
l ds. oomb	4y72	1- JJ4N	14S0Sy	14S610	14S42-	SUJS	dDw
l r P. omb	N271	61	72S	yy	- 2	14SUJ-	dDw
l r P. omb	0072	S	S	S	S	SUSS	dDw
l r P. omb	0N72	11	J	1y	12	26U1J	dDw
l dC.	2N71	1NN62S	1N2140	1N21N1	1N4- 16	2USS2	dDw
l dPr p	1S071	210	2SS	2N-	2- -	1NUJ1	dDw
l dPr p	1SJ71	1N-	1J2	210	1J0	NU0J	dDw
l Oomb	2- 72	400- -	4SJ0y	4S- yS	4- S1J	Jlyl2	dDw
l TpC. Tomb	N671	2210	1yyJ	100y	1NyS	1NU14	dDw
l TpC. Tomb	NN71	11460	1S4N4	12460	1140-	NU64	dDw
l mPmp	- 471	- S24y2	- S1- S4	- S44- 0	- S20- 1	Slyl2	dDw
Ar peomb	1yJ71	N- yJ2Ny	J- 4S124	1SSy60J2	J2y2S60	JU21	dDw
Ar peomb	1yJ72	- N1J- y1	- N6N1- S	- N60- 6-	- Ny161y	SU0-	dDw
AEs Pomb	2S- 71	1y10	1- yN	1- N-	142S	6USS	dDw
AEs Pomb	2Sy71	- - y1	- 4y1	- - 60	- - JS	1lyN	dDw
Ac	11N71	12SN	11N-	14J2	12Jy	1- U2-	dDw
AdS. omb	4071	4yN	yyS	460	4J2	1SUJ1	dDw
Rps. omb	2- N71	0N-	0- -	00y	064	- lyl1	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlb

8spsb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Vs. soomb	y172	yS	4-	1-	- 6	y4UJ4	dDw
YTTr peomb	10271	10	- -	42	- 1	41U66	dDw
YTTr peomb	10272	44	yS	2N	41	2NUJ N	dDw
YTTr peomb	10671	1- SS	11yS	1- 60	1202	NU02	dDw
YTTr peomb	10672	JJ1y	JN01	1S- y4	1SS40	2U66	dDw
YTTpomb	NJ71	1SJJ4N0J	11N26NNy	1- SS- 126	11J416- S	NU4y	dDw
YTTpomb	NJ72	12y1y20	12012Sy	12yy6N2	12yJ401	SUN2	dDw
Zc d	6672	260	10-	14-	1J4	- - USN	dDw
ZqpdC. omb	JS71	02y	60y	1S2y	NSN	2- U42	dDw
ZqpdC. omb	J171	142	1SN	2SN	1y-	- - UJ -	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Aluminium	2572	94-	991	264	913	14.25	cps
Antimony	12171	3- 2	623	43P	336	16.59	cps
Arsenic	5372	3	-	8	5	28.9-	cps
Barium	19371	2P8	215	223	215	9.83	cps
Barium	19571	415	489	999	411	18.28	cps
Beryllium	- 71	12-	- -	83	1P4	21.48	cps
Bismuth	2P- 71	6215331	69993P-	632358-	6938- 3P	2.43	cps
Bismuth	2P- 72	2- P396P	9P92593	9P38513	2- - 8- 95	2.54	cps
Bromine	8171	9526	9- 94	4PP-	98- P	9.58	cps
Cadmium	1P871	15	15	19	13	13.56	cps
Cadmium	1P671	94- 2	9626	9456	9391	2.99	cps
Cadmium	11171	4P8	456	414	499	8.65	cps
Calcium	4971	66-	69P	316	6P3	19.1P	cps
Calcium	4471	44668	449P4	4254P	49- P4	2.99	cps
Carbon	1271	2144- 32	2P- 6535	2P84388	21P8566	1.31	cps
Carbon	1272	26641	23548	2614-	2615-	1.51	cps
Chlorine	9371	- 5P526	- 45328	- 13P89	- 44446	2.- 6	cps
Chlorine	9372	6325	636P	6255	6434	2.4P	cps
Chromium	3272	1195	119P	1149	1195	P.3-	cps
Cobalt	3- 72	- 9	- P	- 5	- 9	9.35	cps
Copper	6972	1435	1945	141P	14P3	9.- 9	cps
Dysprosium	13671	P	8	8	6	86.6P	cps
Dysprosium	13672	9	5	9	4	49.4P	cps
Erbium	16471	38	42	23	42	4P.PP	cps
Erbium	16472	29	1P	29	1-	4P.53	cps
Gadolinium	16P71	38	38	42	39	18.29	cps
Gadolinium	16P72	115	115	1PP	111	8.66	cps
Holmium	16371	- P3961-	88P9936	- 1- 9- 8P	- P16- 83	2.1-	cps
Holmium	16372	96565PP	9- 5829P	9- 86- 9P	988P62P	4.33	cps
Indium	11371	648338-	6448PP3	6596495	6336655	2.9-	cps
Indium	11372	888835	- 99954	- 31231	- 244- 4	9.48	cps
Iron	3472	- 61	1P89	658	- P5	22.- 9	cps
Iron	3672	19114	143P3	19634	19538	3.1P	cps
Iron	3572	944	4PP	9P6	93P	19.36	cps
Krypton	8971	224	225	236	296	5.34	cps
Lead	2P671	213P	2PP6	153P	1- 6-	1P.2-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9-BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Lead	2P571	2P36	15-3	1352	18P8	19.9-	cps
Lead	2P871	86P1	5-62	6-35	584P	1P.38	cps
Lithium	671	2912511	299285-	29-4614	2946594	1.82	cps
Magnesium	2472	1394	1489	- - 2	1996	22.4P	cps
Manganese	3372	1-P	18P	14P	15P	13.36	cps
Molybdenum	-471	1942	1P38	838	1P86	22.96	cps
Molybdenum	-371	183-	1323	1P-2	14-2	23.55	cps
Molybdenum	-671	1515	1653	11-2	1328	1-.1P	cps
Molybdenum	-571	1115	8-2	853	-61	14.P4	cps
Molybdenum	-871	293-	2P65	2P23	213P	8.43	cps
Neodymium	13P71	P	5	5	4	86.6P	cps
Neodymium	13P72	P	P	P	P	P.PP	cps
Nickel	6P72	8P	65	8P	56	1P.1-	cps
0hosphorus	9172	189	9P8	915	26-	25.52	cps
0otassium	9-72	199-8	19PP6	12364	12- - P	9.21	cps
Rhodium	1P971	6483134	6429161	6544643	633P-86	2.6P	cps
Rhodium	1P972	2854151	9P55949	9P85265	9P12-25	9.- -	cps
Scandium	4371	4911646	42P41-6	494P248	4283969	1.65	cps
Scandium	4372	19411P	14141-	149P38	19-32-	9.41	cps
Selenium	8271	21	1P	799	P	768P9.68	cps
Selenium	5572	5	P	9	9	1PP.P3	cps
Selenium	5872	18	-	13	14	92.59	cps
Silicon	2871	1813-P	158P69	15695P	158654	1.4-	cps
Silver	1P571	142	215	142	165	23.-8	cps
Silver	1P-71	65	1PP	3P	52	93.23	cps
Sodium	2972	96- - 8	95992	96433	96-28	1.2P	cps
Strontium	8671	18PP	2P3P	1289	1511	22.83	cps
Strontium	8871	19PP9	11P53	-431	11156	13.-1	cps
Sulfur	9471	9P3289	9P3895	9P644-	9P3835	P.1-	cps
Terbium	13-71	-1399-6	-194138	-293396	-154969	P.3-	cps
Terbium	13-72	95P513-	9-4386-	9-23555	983-6P2	9.49	cps
Thallium	2P971	1P3P	113P	1P65	1P8-	4.-2	cps
Thallium	2P371	2823	2442	21-2	2486	12.89	cps
Tin	11871	1153	1189	1142	1165	1.8-	cps
Titanium	4571	689	3PP	3P8	364	18.96	cps
Uranium	29871	11PP	599	3PP	558	98.8-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Vanadium	3172	49	4P	69	4-	23.81	cps
Ytterbium	15271	99	53	99	45	3P.- 3	cps
Ytterbium	15272	6	28	22	1-	62.49	cps
Ytterbium	15671	11P8	1123	1399	1236	1- .15	cps
Ytterbium	15672	- P85	- 556	- 6P4	- 48-	9.58	cps
Yttrium	8- 71	12114356	11- 16P44	12285P9-	121P3886	1.39	cps
Yttrium	8- 72	11552P4	12944- -	1261943	122493P	9.31	cps
Zinc	6672	219	165	15P	189	14.2P	cps
Zirconium	- P71	899	53P	323	5P9	22.5P	cps
Zirconium	- 171	89	38	138	1PP	32.P4	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-2	1-21	14-6	1-S2	2M--	dDP
q. Tde C. h	121J1	16 S7	10SS7	1000	1022u	2M0u	dDP
qlPp. cd	0-J2	242	2-7	27S	242	4M06	dDP
Bl ldbe	17-J1	1uuuS	10 0	1u 22	1u- 4	2M10	dDP
Bl ldbe	170J1	7172S	77S4	77141	72-S4	7M16	dDP
BplhNbe	J1	22u1	22S1	22S1	222u	2M30	dDP
BdPe bTE	2S J1	614 S60	641u 7	6702-S1	6717-S2	2M2	dDP
BdPe bTE	2S J2	722u46	7SS16 S	712u10u	711 44-	7M04	dDP
BlCe c p	u1J1	7uu4	76S	4S06	7u-6	6M3	dDP
Fl oe dbe	1SuJ1	10	1-u	1u7	104	0M01	dDP
Fl oe dbe	1S6J1	7010	4160	476u	4Su4	uM1-	dDP
Fl oe dbe	111J1	2--	2-44	27S	240S	-M0u	dDP
Fl Ndbe	47J1	11u71	11u6u	127S4	12SS1	2M1	dDP
Fl Ndbe	44J1	22u271	22u6u0	271666	22 -2u	SM11	dDP
Fl lr C.	12J1	22S- u4	21-2S 4	210u 17	210u 0	1M24	dDP
Fl lr C.	12J2	207-	20206	26u42	201-	1M32	dDP
FENCl c p	7-J1	02S01-	0S06 6	6u11S2	0S7101	2M10	dDP
FENCl c p	7-J2	4 -1	46u4	4 S	4u4u	2M6	dDP
FElCe dbe	-2J2	- u1	6S6-	61S-	6S-S	1M34	dDP
FCr l NT	- J2	4- 1	4u01	46u1	4014	7M37	dDP
FCDDpl	67J2	u606	u406	u0-7	u67-	1M66	dDP
&hPDlCPtbe	1-6J1	u	u	u	u	SM3S	dDP
&hPDlCPtbe	1-6J2	0	0	7	6	74M0S	dDP
Ulr dbe	164J1	0-	-u	2-	-7	4uM24	dDP
Ulr dbe	164J2	27	27	20	24	0M1	dDP
Gl oCNl dbe	16SJ1	110	60	0-	u6	71M11	dDP
Gl oCNl dbe	16SJ2	12S	177	170	17S	6M0	dDP
HCNe dbe	16-J1	u07Su0u	14-66u	262 4	S464	7M3	dDP
HCNe dbe	16-J2	416266	7 11 -4	7 6 077	4S140u6	7M20	dDP
t. odbe	11-J1	6-1107S	660-727	60Su-Su	6671u-4	1M1	dDP
t. odbe	11-J2	1SSS4-0	20 S7	0762	6077S	7M0	dDP
tlC.	-4J2	27714	244S4	2760S	270 6	2M74	dDP
tlC.	-6J2	4260	421 42	42u6--	42-0	SM11	dDP
tlC.	-0J2	1Su26	11S1S	111uu	11SSu	1M64	dDP
KlhDTC.	u7J1	202	20S	261	26u	2M21	dDP
Lpl o	2S6J1	u4u6	26-	SS7	u 1u	4M44	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-4S7 B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0-0-	00uS	06-2	066	1M7-	dDP
Lpl o	2SuJ1	7-714	7-u4u	7-77S	7-4 0	SM-	dDP
LdEdbe	6J1	22uS776	2766-u	2442 71	27672u-	7M4	dDP
9 l g. pPdbe	24J2	20S	1S1--7	6uS-	2S	2M7	dDP
9 l . gl . pPp	--J2	1707	12 0	1767	174-	7M1S	dDP
9 CNr op. be	4J1	10S0u	10-4-	1u1S4	10-06	2M2	dDP
9 CNr op. be	-J1	22-76	216-	2201	227S-	2M4	dDP
9 CNr op. be	6J1	24-40	24464	24622	24-44	SM2	dDP
9 CNr op. be	0J1	12 u	17	17024	17-04	7M1	dDP
9 CNr op. be	uJ1	74SS	7-2-4	7-01-	74 7	2M2	dDP
mpCohe dbe	1-SJ1	2S	S	0		114M-	dDP
mpCohe dbe	1-SJ2	7	S	S	1	107M1	dDP
mdkpN	6SJ2	17-0	1-17	17u0	141	-M6	dDP
3ECPDECIbP	71J2	1-S	2u7	2-S	22u	7SM6	dDP
3CTl PPdbe	7 J2	01070	07S00	07144	026-7	1M	dDP
y ECodbe	1S7J1	62 2762	60 46-0	66u 6S	6- 2720	4M2	dDP
y ECodbe	1S7J2	72S-6-6	7S27u2S	7S61-07	7S 0S16	7M1S	dDP
: dl . odbe	4-J1	4S46u-7	424-S 7	474S-	421Su4u	7M6	dDP
: dl . odbe	4-J2	1-1042	17u4	1471--	144466	4M-	dDP
: pNp. dbe	u2J1	001	061	0-2	062	1M7	dDP
: pNp. dbe	00J2	70	7S	2S	2	2 M4	dDP
: pNp. dbe	0uJ2	11	114	1S	114	4M7	dDP
: dNdC.	2uJ1	27-44u	272Su	27774	27762	SM7	dDP
: dNpl	1S0J1	1Su7S	1177S	1147S	111 6	2M0	dDP
: dNpl	1S J1	11S7u	1117u	1Su--	11S1S	1M1	dDP
: Codbe	27J2	2S6604	2S677	2S24u4	2S-166	1M7	dDP
: TC. Tdbe	u6J1	72SS	7260	772-	7264	1M2	dDP
: TC. Tdbe	uuJ1	27062	22-6	276 6	27742	2M0	dDP
: bNbl	74J1	71Su21	7124 -	711uS7	7110S0	SM0	dDP
Apl r dbe	1- J1	uuu1 u	246747	46 07-	1 7-6	7M2	dDP
Apl r dbe	1- J2	4S-4021	70-741	7uu7600	7u 0207	7Mu	dDP
AEl NNdbe	2S7J1	1S117	1S767	u46	1S1S0	2M6	dDP
AEl NNdbe	2S-J1	2-S66	276--	220S4	27uS	4M	dDP
Ac	11uJ1	11 2	11 2	1277	12S6	2M3S	dDP
AdT. dbe	40J1	646u	6047	607-	664	2M7-	dDP
5 ll . dbe	27uJ1	722-S	72 6S	7210-	72462	1M7	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-4S7 B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: S7	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	407	4u7	-07	-1S	SMu	dDP
YTpIr dbe	102J1	2-	-S	60	40	44M1	dDP
YTpIr dbe	102J2	77	11	11	1	6 M2u	dDP
YTpIr dbe	106J1	1410	1460	12SS	1761	1SM1	dDP
YTpIr dbe	106J2	1S2 7	1S16-	1S-01	1S747	2M31	dDP
YTTdbe	u J1	11- 4147	121u --u	12S- 6-	11 400u0	2M62	dDP
YTTdbe	u J2	17u16Su	1227u0	126u 02	12 14u6	6M2	dDP
Zc d	66J2	22 4	2744	2-u4	24S0	6M4	dDP
ZddC. dbe	SJ1	144-u	140-S	1-2-S	14u1	2M3S	dDP
ZddC. dbe	1J1	7460	7442	7-S1	740S	SM4	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SMs6	TdbiqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- S0 12:1- J- aJ7s	TI il MdbI:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	17s1	1722	1726	1740	2R7S	Q P
d. iqe C. E	121 1	s- -	a- -	s60	s11	0R62	Q P
dIPp. qO	07 2	21	- 1	2a	20	1sR24	Q P
BI dpe	1- 7 1	207s6	2a- - S	2a4as	2a1- a	1R6s	Q P
BI dpe	1- 0 1	71S- s	4s- a-	7S40S	7S2s0	1R60	Q P
BpIENdpe	s 1	162	16S	177	17s	2R4S	Q P
BqPe biG	2Ss 1	7a00s44	6S- 12- 2	6176S64	6S21040	2R 1	Q P
BqPe biG	2Ss 2	- S200a0	2aa2- 70	2ss666-	2s6as- 6	2R7a	Q P
BICe q p	a1 1	1766a	1a446	21460	1a720	17R66	Q P
9 I ne dpe	1Sa 1	10	- -	10	22	4- R2a	Q P
9 I ne dpe	1S6 1	- - - 4	- 742	- 4Ss	- 42a	- RSa	Q P
9 I ne dpe	111 1	- 6-	- 0-	- 01	- 6s	1R 2	Q P
9 I NDdpe	4- 1	2S0asa	212sS4	21211s	21Ss04	1R2a	Q P
9 I NDdpe	44 1	- 7SS0s6	- 7s- 746	- 7- Sa1s	- 74102S	1R 4	Q P
9 I Ir C.	12 1	2a710aS	- 1s6s7S	- 4724- 2	- 160S74	sR72	Q P
9 I Ir C.	12 2	4011a	4s66S	711S6	4s2s4	4R1S	Q P
9 GNDIq p	- 7 1	0S6- a1	0Ss4S6	02- a44	01- 21S	1R 1	Q P
9 GNDIq p	- 7 2	7771	7Sa4	7S71	722s	7R 7	Q P
9 GICe dpe	72 2	0272	01- 7	0S72	0146	1R41	Q P
9 Cr I Nd	7s 2	06S	040	670	021	0R0s	Q P
9 Ct pI	6- 2	22- S	24a4	220S	2- 2a	7Ra7	Q P
TEPt ICPdpe	176 1	260	- SS	207	2a1	6R1a	Q P
TEPt ICPdpe	176 2	11-	12-	1S0	114	0R -	Q P
UIr dpe	164 1	27S	- 10	27S	202	14R14	Q P
UIr dpe	164 2	12S	110	11S	116	4R41	Q P
HI nCNq dpe	16S 1	- SS	- Sa	- 7S	- 1s	aR s	Q P
HI nCNq dpe	16S 2	210	27S	20S	246	1SR30	Q P
h CNe dpe	167 1	a- ass00	a7asss2	aa7S740	a61S102	2R6a	Q P
h CNe dpe	167 2	- a6- 74S	- 0- 4076	- a- 20- S	- a1S- 42	1R06	Q P
& ndpe	117 1	6- 46461	641s106	647s1a7	64Sa204	SRas	Q P
& ndpe	117 2	s- s7S0	aa026-	s11S26	s127ss	2Ra0	Q P
&C.	74 2	226S2	226sS	22- S0	227- -	SRas	Q P
&C.	76 2	4S7- 46	41- 604	4S4Ssa	4S00S6	1R2a	Q P
&C.	70 2	1Ss21	1Sa6S	1S0a2	1Sa74	SR64	Q P
KIEt iC.	a- 1	24S	227	261	242	0R7-	Q P
LpI n	2S6 1	24- 4	242a	2610	24s-	4R 1	Q P

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Inst Id :P8

LB:mbe r pl:J	LB1264S0	3 t pll iCl:J	wl P8 l N
Ll r :Dl e t Nd:&T :J	3 - 724 S1	& Fll be . pi:ml e p:J	ua
9 Nd. i:Dl e t Nd:&T :J	y h SMs6	Tdl iqC. :M ClCl:J	1
Tl ip:A:cqe p:dQobdqpn:J	2S2- S0 12:1- J- aJ7s	Tl il Mdl d:ml e p:J	S2- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
Lpl n	2S0 1	21S6	222a	2Ss7	214-	- R47	Cl P
Lpl n	2Sa 1	s0S2	1S2- 7	sa6a	ss- 7	2R07	Cl P
LqiGdpe	6 1	224SS11	24S6- Ss	2206s77	2- S007a	- R0a	Cl P
y l g. pPdpe	24 2	- 240- 4	- - S011	- 22s74	- 261- -	1R27	Cl P
y l . gl . pPp	77 2	sS16	ass-	aaS-	as- 0	1R 1	Cl P
y ClNEr np. be	s4 1	277S	2- 07	27a4	27S-	4R40	Cl P
y ClNEr np. be	s7 1	- 4s2	- 67s	- - 42	- 4sa	4R7-	Cl P
y ClNEr np. be	s6 1	4S42	- s42	- 060	- s10	- R77	Cl P
y ClNEr np. be	s0 1	27SS	2227	24Ss	2- 0a	7Ras	Cl P
y ClNEr np. be	sa 1	771S	7- s-	7706	74s-	1R6s	Cl P
mpOnEe dpe	17S 1	720	740	4s-	722	7R16	Cl P
mpOnEe dpe	17S 2	10S	10S	170	166	4R67	Cl P
mqOkpN	6S 2	1160	1- - -	12- 0	1246	6R02	Cl P
uGCPt GClbP	- 1 2	- SS	27S	2a-	20a	sR16	Cl P
uClPPdpe	- s 2	1- S1S1	1- 140a	120a46	12saSa	1R41	Cl P
FGOndpe	1S- 1	6117062	62aasS7	6- 02766	627sS00	2RSs	Cl P
FGOndpe	1S- 2	- S20007	2s41- ss	- S4212a	- SS- 060	1Ra1	Cl P
DOl . ndpe	47 1	4S222Sa	4S04s0a	4S042- 7	4S7014S	SR07	Cl P
DOl . ndpe	47 2	14S07-	1- 4- 02	1- 6S4S	1- 0S77	2R41	Cl P
DpNd. dpe	a2 1	a	0a	6	- S	1- 4RS0	Cl P
DpNd. dpe	00 2	S	0	S	2	10- R21	Cl P
DpNd. dpe	0a 2	1s	2a	21	2-	2SRa7	Cl P
DqNDC.	2a 1	1SaS4SS1	11477Ssa	111a72- 6	1114a112	2R3-	Cl P
DqNpl	1S0 1	1Sa	a-	127	1S6	1sRa6	Cl P
DqNpl	1Ss 1	110	110	60	1SS	2aRa0	Cl P
DOndpe	2- 2	217s642	2166a6s	21Sssaa	21477SS	1R44	Cl P
DilC. idpe	a6 1	sa0S0	1S7714	ss7a0	1S126s	- R36	Cl P
DilC. idpe	aa 1	a61a76	aaaS6-	aa421s	a0aS46	1R61	Cl P
DbNbl	- 4 1	4S266-	4S2761	4S6141	4S- 0aa	SR7S	Cl P
cplr dpe	17s 1	a71S1a-	aa- s72-	sSas64-	aa1- 116	- R S	Cl P
cplr dpe	17s 2	- a72474	- 046- s-	- aS4asa	- aS124s	1R4S	Cl P
cGl Ndpe	2S- 1	6s2	77S	6s2	644	12R3s	Cl P
cGl Ndpe	2S7 1	12s2	1160	1S07	110a	sR2-	Cl P
cq	11a 1	22s2	2- Ss	1s7s	21a6	sRS-	Cl P
cqil . dpe	40 1	060	s42	aSS	a- 6	11R11	Cl P
5 ll . dpe	2- a 1	1s- 2-	2S0S1	1sa- -	1ss72	- R4s	Cl P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nb. i:DI e t Nb:&T :J	y h SMs6	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdpn:J	2S2- S0 12:1- J- aJ7s	TI il MdbI:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	47-	770	4sS	7SS	1SR4a	OI P
YiipIr dpe	102 1	17a	110	1- -	1- 6	17R41	OI P
YiipIr dpe	102 2	1S6	61	as	a7	26R6	OI P
YiipIr dpe	106 1	147S	127S	1210	1- S6	sR30	OI P
YiipIr dpe	106 2	sa- 2	s7sa	s6s-	s0S0	1R21	OI P
YiiIdpe	as 1	112sa676	1147S110	11761414	114- 602s	1R17	OI P
YiiIdpe	as 2	1241as2	1166a47	12Ss707	12S61S4	- R12	OI P
ZqO	66 2	4414	4- s0	4S- 0	42a-	4R30	OI P
ZdOC. dpe	sS 1	12Sa	1427	107s	1464	1aR3-	OI P
ZdOC. dpe	s1 1	1a-	260	- s2	2a1	- 0R a	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	21Sh	2Sa1	2S24	2S01	2M8h	dDl
qCTb nCE	121 1	610	6h2	67S	67-	7M06	dDl
qpl r Ccl	07 2	60	74	7a	6S	11M16	dDl
Bwpcmb	1- 7 1	4h710	714S0	7221S	71S47	2M01	dDl
Bwpcmb	1- 0 1	a660a	ah71-	hS26a	aaa1h	2M1-	dDl
Br pE8mb	h 1	212	2- 1	21h	221	4M2	dDl
Bdl b mTG	2Sh 1	6- h- haS	620a- 74	644h6S4	6- 0- h0h	1M0	dDl
Bdl b mTG	2Sh 2	- SS147-	- - - h12h	- Sa14a1	- 14S6aa	7M02	dDl
Bpmb cCr	a1 1	2707a	- 1- 61	- 0h44	- 16aa	1hM27	dDl
5 wob cmb	1Sa 1	h2	- -	a-	6h	47M44	dDl
5 wob cmb	1S6 1	- 7a4	- 710	- 7S1	- 7- 4	1M27	dDl
5 wob cmb	111 1	- a6	- h1	- 0h	- a7	1M72	dDl
5 w8lcmb	4- 1	4211h0	4- 6h02	44661S	4- 4h26	2M17	dDl
5 w8lcmb	44 1	0- 1660h	026SS7a	0717a10	0- 641a7	1M42	dDl
5 wpenC	12 1	4Sa2762	477ah74	407721a	446770a	0M07	dDl
5 wpenC	12 2	67S20	60067	67h4a	66240	2M1S	dDl
5 G8hpCr	- 7 1	6a27h4	0SS207	0211- S	0S1- - -	2M07	dDl
5 G8hpCr	- 7 2	7- 6S	7006	7- 7h	74ha	4Ma	dDl
5 Gpmb cmb	72 2	4S- 0	4SS0	- 0h4	- h46	- M6	dDl
5 new8T	7h 2	17S-	1700	164S	170-	4M7	dDl
5 nDDr p	6- 2	264S	27S0	20a4	2644	7M4-	dDl
&El Dpnl cmb	176 1	- 07	207	- 42	- - 1	17M4S	dDl
&El Dpnl cmb	176 2	100	14S	14-	17-	1- M42	dDl
Fpecmb	164 1	- a-	442	4a-	4- 6	11M72	dDl
Fpecmb	164 2	16S	120	220	101	2hM06	dDl
Hwon8Cmb	16S 1	- h2	- 60	47S	4S-	1SM02	dDl
Hwon8Cmb	16S 2	2hS	260	200	20a	4M42	dDl
y n8b cmb	167 1	hS7741S	ahh4- a1	hS22SS2	hS2- h- 1	SM4	dDl
y n8b cmb	167 2	- h- a- 6h	4- 0a- S0	4S6- S01	41267a2	7M4h	dDl
tCocmb	117 1	6711014	6740a- 1	64- 16- h	64h0S61	SM42	dDl
tCocmb	117 2	h1- a1-	1S- - - 22	h64044	h0S626	6M1a	dDl
tpnC	74 2	6Sa- 7	7hS11	700- h	7h1h7	2M0-	dDl
tpnC	76 2	1Sa- 2ha	1S014S2	1S004- a	1S00- aS	SM77	dDl
tpnC	70 2	20a20	2aa1a	2ah04	2a74S	2M1a	dDl
KpEDTnC	a- 1	242	214	24S	2- 2	6M46	dDl
Lr wo	2S6 1	2- 76	2711	2476	2441	- M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :uwb r :J	S24q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	2S76	1hah	1aah	1h0a	4M24	dDl
Lr wo	2Sa 1	h7- 7	h61-	h1h6	h44a	2M7	dDl
LdTGmb	6 1	2- SS- 40	2- Sh- a-	22hh6hS	2- S- 14S	SM24	dDl
9 wgCr l mb	24 2	a- h7- a	a44441	a- 6020	a4S2- 7	SM46	dDl
9 wCgwCr l r	77 2	40- 0a	407S2	40066	4074h	SM42	dDl
9 n8Eeor Cmb	h4 1	1S- 21	1S674	1S20h	1S41a	1M10	dDl
9 n8Eeor Cmb	h7 1	104- 6	1aS74	10a2S	1000S	1M07	dDl
9 n8Eeor Cmb	h6 1	1ah40	1hS- h	1h7a1	1h1ah	1M0h	dDl
9 n8Eeor Cmb	h0 1	1S0- a	1S646	117aa	1Shh1	4M0-	dDl
9 n8Eeor Cmb	ha 1	20- 1h	2a246	2a2aa	20h71	1M16	dDl
ur noEb cmb	17S 1	62S	62S	7a0	6Sh	- M16	dDl
ur noEb cmb	17S 2	160	160	1hS	104	0M02	dDl
ucdkr 8	6S 2	67S	0- 0	64-	600	0M0S	dDl
NGhl DGhpml	- 1 2	1h2	- SS	47a	- 10	42M7	dDl
NnTwl l cmb	- h 2	21a4aS	2107hh	21aa16	21a2hh	SM2h	dDl
. Ghocmb	1S- 1	6446ha7	64S2- 14	6- h66- 1	6417- 1S	SM4-	dDl
. Ghocmb	1S- 2	2ha- 7a1	- - 0hS70	- S00- 61	- 146666	6M70	dDl
l dwCocmb	47 1	412S40h	4217a- 1	41742S4	416- 7S7	1M16	dDl
l dwCocmb	47 2	14SS16	174S1h	146S4a	1466h4	4M0h	dDl
l r 8 Ccmb	a2 1	41	76	0-	70	20M7a	dDl
l r 8 Ccmb	00 2	-	S	0	-	1SSM87	dDl
l r 8 Ccmb	0a 2	2-	17	20	22	2aM2S	dDl
l 8dnC	2a 1	107- a60-	1a- - a20-	10074411	10a0011h	2M1	dDl
l 8vr p	1S0 1	1Sa	7S	127	h4	41M0S	dDl
l 8vr p	1Sh 1	110	- -	h2	a1	7- M8h	dDl
l nocmb	2- 2	4- - 4a2S	420044S	4Sh1040	42- 466h	- M8S	dDl
l TpmCTcmb	a6 1	2711h2	2611- 4	261744	270h70	2M20	dDl
l TpmCTcmb	aa 1	226S204	2- 74- 7S	2- aa46h	2- - 4- 64	2M44	dDl
l m8mp	- 4 1	671471	6644S-	661Sa6	67ahaS	1M82	dDl
Ar pecmb	17h 1	h1h61- 4	ahaah16	h2- 40h-	h1- hh4a	1M47	dDl
Ar pecmb	17h 2	- a441- -	421244-	- ah44Sa	- ha- 661	7M81	dDl
AGw8mb	2S- 1	7- -	47a	77a	710	1SM80	dDl
AGw8mb	2S7 1	1442	1210	1- - -	1- - 1	aM46	dDl
AdC	11a 1	22SS	24SS	2442	2- 4a	7M7S	dDl
AdTwCcmb	40 1	1S07	a42	a7S	h22	14M7	dDl
RpwCcmb	2- a 1	424S7	4- 1S0	4- 216	42hSh	1M8-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	71 2	47-	44-	40-	470	- M7	dDl
YTTr pecmb	102 1	127	17a	227	16h	- SN87	dDl
YTTr pecmb	102 2	110	a-	122	1S0	1hM7a	dDl
YTTr pecmb	106 1	147a	1410	1- 7S	14Sa	- Nda	dDl
YTTr pecmb	106 2	1SS17	11177	1SS4h	1S4S6	6M2-	dDl
YTTpcmb	ah 1	117h6217	11- a2Sh2	11ha0100	11677161	2M4-	dDl
YTTpcmb	ah 2	12- S777	141a4a7	1- - - S1-	1- 20- 71	0N8h	dDl
ZdCd	66 2	11607	116S7	12117	110ha	2M7	dDl
ZqpdnCcmb	hS 1	17Sh	1710	1- 7S	147a	6M44	dDl
ZqpdnCcmb	h1 1	2h2	1a-	242	2- h	22N0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1h22	1h- S	1hS7	1h1h	SM60	dDl
qCTb nCE	121 1	0- -	a42	77S	0Sa	2SM41	dDl
qpl r Ccl	07 2	01	76	61	6-	12M1h	dDl
Bwpcmb	1- 7 1	72171	72h62	71122	72S0h	1M00	dDl
Bwpcmb	1- 0 1	ahSa7	h20- 4	h2S02	h12h0	2M1-	dDl
Br pE8mb	h 1	1a0	1h6	1a1	1aa	4M8S	dDl
Bdl b mTG	2Sh 1	610424S	7a617S0	62a702-	61S0170	- M0S	dDl
Bdl b mTG	2Sh 2	2hh7461	- S46SaS	- SS16- S	- S14- hS	SM12	dDl
Bpmb cCr	a1 1	2a0- a	- 644S	- h617	- 4h- 1	16M81	dDl
5 wob cmb	1Sa 1	07	7S	60	64	1hM12	dDl
5 wob cmb	1S6 1	- 7S1	- 206	- 706	- 471	4M7-	dDl
5 wob cmb	111 1	- 6S	- a4	- a6	- 00	- M44	dDl
5 w8lcmb	4- 1	4- ShS1	4- h700	44612-	4- aa60	1M04	dDl
5 w8lcmb	44 1	0166h12	04a4h61	07S1- S6	0- a4- h-	2M77	dDl
5 wpenC	12 1	416S417	474h7h2	4a6a002	472626S	0M44	dDl
5 wpenC	12 2	64410	6a74-	6h724	604h4	4M82	dDl
5 G8hpcCr	- 7 1	6744hh	602S02	6h447a	60- 606	2M10	dDl
5 G8hpcCr	- 7 2	4ah-	4h26	7471	7ShS	6M16	dDl
5 Gpmb cmb	72 2	- a24	4S40	- a71	- hS0	- M12	dDl
5 new8T	7h 2	16- S	1010	144-	17h0	aM07	dDl
5 nDDr p	6- 2	2- 44	2- 0S	24- S	2- a1	1M46	dDl
&El Dpnl cmb	176 1	2a-	207	227	261	12M8a	dDl
&El Dpnl cmb	176 2	100	16-	14-	161	1SM41	dDl
Fpecmb	164 1	- 7S	260	- 27	- 14	1- M02	dDl
Fpecmb	164 2	14-	1aS	14S	174	14M0	dDl
Hwon8Ccmb	16S 1	- - -	- h2	460	- h0	16M4-	dDl
Hwon8Ccmb	16S 2	2hS	2- -	2- 0	27-	12M77	dDl
y n8b cmb	167 1	aa- 4070	a- 47710	h2- - - 7a	aaS4744	7M87	dDl
y n8b cmb	167 2	- ha721-	4S40166	- h6- 04h	- hha0Sh	1M8a	dDl
tCocmb	117 1	671aSh0	61aS7S7	6710417	64S7- - h	- M84	dDl
tCocmb	117 2	h- h7h1	h27- 01	h26S- -	h- S- - 2	SM46	dDl
tpnC	74 2	7- 7a4	77h- 2	7720h	74h- 1	2M21	dDl
tpnC	76 2	1SSa7- 6	1S224S0	1SS2h16	1S112a0	SM1h	dDl
tpnC	70 2	26- 7a	26- 72	26- 6-	26- 7a	SM82	dDl
KpEDTnC	a- 1	241	220	2- h	2- 6	- M11	dDl
Lr wo	2S6 1	2Sah	2210	2S60	2124	- M41	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :uwb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1047	1676	10SS	10SS	2M61	dDl
Lr wo	2Sa 1	0h0h	a271	0a2h	aS2S	2M60	dDl
LdTGmb	6 1	2- - 077-	210hh06	2- 0041h	22ha- 16	4M74	dDl
9 wgCr l mb	24 2	a476S1	a460a-	a72h04	a4a47-	SM40	dDl
9 wCgwCr l r	77 2	40Sa0	4a4- h	4014a	4077a	1M61	dDl
9 n8Eeor Cmb	h4 1	1SS- 0	haa0	1S7h6	1S10-	- M60	dDl
9 n8Eeor Cmb	h7 1	101- 6	10S61	1a162	1047-	- M7-	dDl
9 n8Eeor Cmb	h6 1	1a66-	1h1ah	1a0aa	1aaaS	1M47	dDl
9 n8Eeor Cmb	h0 1	1S6- a	1Sa01	1S- - 0	1S617	2M72	dDl
9 n8Eeor Cmb	ha 1	2a- 6-	2a6- h	20261	2aSaa	2M6S	dDl
u r noEb cmb	17S 1	61-	760	6aS	62S	hM1h	dDl
u r noEb cmb	17S 2	100	100	1hS	1a1	4M27	dDl
u cdkr 8	6S 2	67-	0- 0	7hS	66S	11M17	dDl
NGhl DGhpml	- 1 2	2- -	210	2a-	244	14M1h	dDl
NnTwl mb	- h 2	2164h4	210aa1	214a04	216416	SM0S	dDl
. Ghocmb	1S- 1	64SS00-	6S160ha	640a461	62ha60a	- M12	dDl
. Ghocmb	1S- 2	- S- 7004	2h02- 44	- S24S- S	- S1S016	1M12	dDl
l dwCocmb	47 1	41S4- 11	- ah- S6S	42- - 641	4S00SS4	4M22	dDl
l dwCocmb	47 2	1- h1- S	14S0h6	1- h- 0a	1- h06a	SM04	dDl
l r 8 Cmb	a2 1	7a	ah	110	aa	- 4M1-	dDl
l r 8 Cmb	00 2	S	1S	1S	0	a6M0S	dDl
l r 8 Cmb	0a 2	10	1a	26	2S	24M26	dDl
l 8dnC	2a 1	1046- S4h	100S07S0	10704104	107a1700	SM0S	dDl
l 8vr p	1S0 1	7a	a-	127	ah	- 0M1h	dDl
l 8vr p	1Sh 1	7S	60	42	7-	24M12	dDl
l nocmb	2- 2	42- 0- - 1	4242h66	42h4a77	427a- a4	SM04	dDl
l TpnCTmb	a6 1	27- 2- 4	27ha02	27hh- 4	2706aS	1M4h	dDl
l TpnCTmb	aa 1	220ah- S	2- 61ah4	24S616h	2- 4ahh0	2M07	dDl
l m8mp	- 4 1	6407- S	674274	674a6S	672217	SM62	dDl
Ar pecmb	17h 1	aa0002a	a47- h- 6	h1a- a7h	aa- a7Sa	4M17	dDl
Ar pecmb	17h 2	- ah10S0	- a0h7- 7	- hS1- 0h	- ahSa0-	SM2a	dDl
AGw8mb	2S- 1	442	- Sa	727	427	27M02	dDl
AGw8mb	2S7 1	a- -	h42	a42	a02	6M11	dDl
AdC	11a 1	2S42	1a60	1h7h	1h76	4M4a	dDl
AdTwCmb	40 1	a10	0h2	007	0h4	2M64	dDl
RpwCmb	2- a 1	412S1	4216-	42- 64	41hSh	1M4a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	71 2	70-	- aS	4SS	471	2- M0	dDl
YTTr peomb	102 1	1a-	2Sa	1h2	1h4	6M7	dDl
YTTr peomb	102 2	60	111	h4	h1	24M4	dDl
YTTr peomb	106 1	1- - -	1260	14h2	1- 64	aM0	dDl
YTTr peomb	106 2	1S- 74	1S421	1S101	1S- 17	1M6	dDl
YTTpomb	ah 1	1162- S41	11SS6074	11aahSaa	117S62h4	- M-	dDl
YTTpomb	ah 2	1270S0S	12- a- 07	122a016	1241- a0	1M6	dDl
ZdCd	66 2	112h7	1176a	117- 1	11467	1MS	dDl
ZqpdnComb	hS 1	11SS	1S7S	1S60	1S02	2M0	dDl
ZqpdnComb	h1 1	242	210	2- -	2- 1	7M2	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Aluminium	23X2	436	022	02O	0O6	0.14	cps
Antimony	121X1	10O	130	242	189	20.O9	cps
Arsenic	30X2	10	11	11	12	18.32	cps
Barium	1- 0X1	1O3- 8	1O046	11- O0	1O86-	- .6-	cps
Barium	1- 3X1	186O0	180- 8	1904O	18894	2.96	cps
Beryllium	9X1	80	80	89	86	2.01	cps
Bismuth	2O9X1	60- 3094	601344-	60- O1O8	6028- 82	O.16	cps
Bismuth	2O9X2	- 1- - 894	- 24O849	- O98- 34	- 103632	2.- 0	cps
Bromine	81X1	14920	16236	1094-	10310	4.48	cps
Cadmium	1O8X1	04	- -	31	0-	- 0.6O	cps
Cadmium	1O6X1	- 392	- 836	- 809	- 842	1.10	cps
Cadmium	111X1	- 04	- 9-	- 3O	- 32	0.- 0	cps
Calcium	4- X1	9O- 3O	91O91	91031	91O1O	O.66	cps
Calcium	44X1	1039029	1089636	161- 01O	10942- 9	1.O9	cps
Carbon	12X1	- O003- 1	- 14- 232	- 121- O2	- 1O6368	1.43	cps
Carbon	12X2	4O3O3	- 9O19	- 8068	- 94- 1	2.86	cps
Chlorine	- 0X1	483029	438300	434233	48O183	1.4O	cps
Chlorine	- 0X2	- 9O9	- - 13	- 436	- 063	8.09	cps
Chromium	02X2	16- O	133-	132-	13O9	4.26	cps
Cobalt	09X2	- 3-	- OO	4O-	- 09	14.81	cps
Copper	6- X2	1O9O	1213	126-	119O	3.04	cps
Dysprosium	106X1	1O8	63	92	89	2- .09	cps
Dysprosium	106X2	- -	13	4O	- O	4O.O0	cps
Erbium	164X1	18-	130	120	161	19.08	cps
Erbium	164X2	4-	0O	6O	01	16.42	cps
Gadolinium	16OX1	142	30	108	120	- 0.28	cps
Gadolinium	16OX2	16-	18O	13O	131	4.9O	cps
Holmium	160X1	9- 40643	918- 938	92O899-	92462O6	O.94	cps
Holmium	160X2	41430O4	4148- 13	414- 3- 6	4146019	O.O6	cps
Indium	110X1	68169OO	68O0O- 6	681O69-	681O836	O.O9	cps
Indium	110X2	9866- 4	968831	932640	936O0O	O.96	cps
Iron	04X2	11900	12O00	12189	12O66	O.93	cps
Iron	06X2	214O80	21938O	21- 6O3	210824	1.09	cps
Iron	03X2	0824	6- 46	0368	0939	0.- -	cps
Krypton	8- X1	204	26O	23O	261	- .14	cps
Lead	2O6X1	1O90	11- 9	1122	1119	2.O1	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Lead	2O3X1	8O6	9OO	8O6	8- 3	6.01	cps
Lead	2O8X1	42O6	4O2-	4O89	41O6	2.26	cps
Lithium	6X1	241- 092	2- 01- 88	2- 841O3	2- 8- O29	1.- 1	cps
Magnesium	24X2	1348O2	1369- 4	1693O9	13- 810	2.14	cps
Manganese	00X2	988O	93- -	949O	93O1	2.O-	cps
Molybdenum	94X1	20- 4	240O	2192	2- 92	3.40	cps
Molybdenum	90X1	- 242	- - O9	- 6O9	- - 83	0.33	cps
Molybdenum	96X1	- 392	- 926	4- O1	4OO6	6.08	cps
Molybdenum	93X1	2163	22- 4	200O	2- 13	8.84	cps
Molybdenum	98X1	0626	06- 0	61- 0	0399	0.O2	cps
Neodymium	10OX1	83	1O3	14O	111	24.20	cps
Neodymium	10OX2	4-	4O	0-	46	10.2-	cps
Nickel	6OX2	193	103	2O-	186	1- .6O	cps
Phosphorus	- 1X2	220	192	2O8	2O8	8.OO	cps
Potassium	- 9X2	0- 826	04244	02039	0- 00O	1.62	cps
Rhodium	1O- X1	6692699	6636- 04	631O688	669- 243	O.26	cps
Rhodium	1O- X2	- 200- 29	- 21- 93O	- 14- 8- 6	- 2O4- 38	1.36	cps
Scandium	40X1	4- 8- O12	42- 46O9	42O1003	423- O6O	2.26	cps
Scandium	40X2	1449O-	146O64	143O30	146O14	O.34	cps
Selenium	82X1	41	X16	X4	3	426.90	cps
Selenium	33X2	O	O	O	O	O.OO	cps
Selenium	38X2	19	10	10	16	14.14	cps
Silicon	28X1	- 3- 0016	- 398168	- 833433	- 8O- 32O	1.83	cps
Silver	1O3X1	1O8	08	120	93	- 0.69	cps
Silver	1O9X1	42	42	13	- -	4- .- O	cps
Sodium	2- X2	89- 644	886199	88- 202	883698	O.6O	cps
Strontium	86X1	048O8	0- 428	04- 81	042O6	1.- O	cps
Strontium	88X1	409- 98	46183-	408911	46OO61	O.- 0	cps
Sulfur	- 4X1	- 660- 9	- 60868	- 6628O	- 66229	O.O9	cps
Terbium	109X1	9409182	9299123	928841O	9- 489O6	1.O2	cps
Terbium	109X2	41212- 3	- 99- 3- 0	- 933012	4O- O828	1.90	cps
Thallium	2O- X1	292	- 20	- 8-	- - -	1- .92	cps
Thallium	2O0X1	80O	330	313	381	8.06	cps
Tin	118X1	1692	1420	14O8	10O8	1O.04	cps
Titanium	43X1	292	230	- OO	289	4.41	cps
Uranium	2- 8X1	8038	862O	88O-	8663	1.- 8	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Vanadium	01X2	1O3	1O3	8O	98	10.30	cps
Ytterbium	132X1	1- -	63	30	92	- 9.6-	cps
Ytterbium	132X2	44	0O	06	0O	11.11	cps
Ytterbium	136X1	1142	1263	1- 42	120O	8.O3	cps
Ytterbium	136X2	1O136	1O604	1O- 99	1O41O	2.- O	cps
Yttrium	89X1	12- O0822	1186991O	12O8O- 0O	12O80- 61	1.8O	cps
Yttrium	89X2	1- O2- 43	1292640	12361- 4	129O- 30	1.O-	cps
Zinc	66X2	260O	232O	2093	2606	2.- -	cps
Zirconium	9OX1	40O	60O	030	008	18.1O	cps
Zirconium	91X1	92	1O8	92	93	9.9O	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :uwb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	h24S6	h2046	h2h60	h20S6	SM1S	dDl
qCTb nCE	121 1	7S40S7	717- 21	726h76	71766S	2M16	dDl
qpl r Ccl	07 2	7776	766S	774a	77aa	1M12	dDl
Bwpcmb	1- 7 1	27a1012	26616hS	270Sa02	26S407a	1M1S	dDl
Bwpcmb	1- 0 1	4- hh67a	446ah- -	4441h7a	44- 6a4h	SM0h	dDl
Br pE8&mb	h 1	0S- - 7	0- a- h	0- - 60	02714	2M62	dDl
Bdb mTG	2Sh 1	622077a	6- 72h76	62- 720a	6201h- 1	1M12	dDl
Bdb mTG	2Sh 2	2hhaa12	- S616h1	- S76h21	- S- h141	1M17	dDl
Bpmb cCr	a1 1	277h1	- 1244	- 4a44	- S77h	17M26	dDl
5 wob cmb	1Sa 1	4171	4640	46h0	44ha	6M01	dDl
5 wob cmb	1S6 1	h212	h- 47	h70S	h- 06	1M1-	dDl
5 wob cmb	111 1	64- 46	6466h	6- 7h-	642S-	SM46	dDl
5 w8lcmb	4- 1	4264h-	4- h70S	441026	4- 7h- S	1M4h	dDl
5 w8lcmb	44 1	01aah12	0- 01S4-	0- 664S-	0- Sa0a6	1M12	dDl
5 wpenC	12 1	- ah7- - 7	4- 47h42	4662162	4- S1146	aM16	dDl
5 wpenC	12 2	647a4	60h4h	600S0	66040	2M41	dDl
5 G8hpcCr	- 7 1	- - 466ha	4Sa11a-	4672627	4S26a- 7	16M26	dDl
5 G8hpcCr	- 7 2	4Sha4	44a- 0	40- - 6	44- a6	0M21	dDl
5 Gpmb cmb	72 2	- - 7aa1	- - 02h0	- - 7h16	- - 6- 64	SM24	dDl
5 new8T	7h 2	17h42SS	162a1a0	1672S- -	1624aS0	1M0h	dDl
5 nDDr p	6- 2	6SS- 14	6S1- Sh	6SS2a0	6SS6- 0	SM1S	dDl
&El Dpnl cmb	176 1	- - -	- 07	- Sa	- - h	hM14	dDl
&El Dpnl cmb	176 2	170	1h0	17S	16a	17M84	dDl
Fpecmb	164 1	4SS	- 60	2a-	- 7S	10M10	dDl
Fpecmb	164 2	140	16-	1a-	164	11M16	dDl
Hwon8Ccmb	16S 1	4- -	4- -	- 7S	4S6	11M46	dDl
Hwon8Ccmb	16S 2	270	26-	- 2-	2a1	1- M86	dDl
y n8b cmb	167 1	a67- 60h	hS6SS00	hS- 74h7	ah16410	2M76	dDl
y n8b cmb	167 2	- h0- 770	- ah1a70	- ha7106	- h7S1h0	1M2h	dDl
tCocmb	117 1	67- 7Sah	6626766	64- h202	67- - 642	1M1-	dDl
tCocmb	117 2	h- haSa	h- 127h	h- 17h1	h- 421h	SM72	dDl
tpnC	74 2	11- 7- 0	11- 6- 2	111ha6	11- S71	SM42	dDl
tpnC	76 2	1h074S4	1hhh170	1hh- 2ha	1hah2a6	SM62	dDl
tpnC	70 2	40- h6	4ah- 4	4a2S4	4a10a	1M6S	dDl
KpEDTnC	a- 1	2- 4	264	2- 2	24-	0M20	dDl
Lr wo	2S6 1	h2624	h04h0	h- 6Sa	h4700	2M02	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :uwb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	a106a	a4S21	a21S-	a26- 1	1M40	dDl
Lr wo	2Sa 1	- 027- 6	- a04- 0	- aS4hh	- aS170	1M16	dDl
LdTGmb	6 1	2- 1h26-	2- 40a4S	2- 2a7S0	2- - 1a0S	SM0-	dDl
9 wgCr l mb	24 2	a- a606	a4- a2h	a4h12a	a4- a00	SM02	dDl
9 wCgwCr l r	77 2	4740h1	46402h	477706	47a- 67	1M21	dDl
9 n8Eeor Cmb	h4 1	1S274	1S61-	1S40h	1S44h	1M0-	dDl
9 n8Eeor Cmb	h7 1	102h7	16h44	10711	1027S	1M06	dDl
9 n8Eeor Cmb	h6 1	1ahS7	1hS02	1ah02	1aha-	SM44	dDl
9 n8Eeor Cmb	h0 1	1S401	11S77	1SaS7	1S000	2M02	dDl
9 n8Eeor Cmb	ha 1	20S72	2a401	20074	2007h	2M76	dDl
u r noEb cmb	17S 1	aSS	6h-	67-	016	1SM0S	dDl
u r noEb cmb	17S 2	1hS	1h0	2S0	1ha	4M24	dDl
u cdkr 8	6S 2	421617	41h4ha	424h0S	422S2a	SM67	dDl
NGhl DGhpml	- 1 2	2SS	2- -	260	2- -	14M2h	dDl
NnTwl l cmb	- h 2	2161ah	21- 764	216h76	21770S	SM4-	dDl
. Ghocmb	1S- 1	6- - 06a4	64Sa1a4	6- 60a00	6- 0124a	SM76	dDl
. Ghocmb	1S- 2	- S61776	- S7h- 7S	- S6- 044	- S6177S	SM80	dDl
l dwCocmb	47 1	4121014	42S160S	41746- h	417h- 41	SM10	dDl
l dwCocmb	47 2	14- a26	1- a62h	14S614	141S2-	1M46	dDl
l r 8 Ccmb	a2 1	hSha	h401	h4a1	h- 7S	2M-	dDl
l r 8 Ccmb	00 2	- - 0	- 1S	240	2ha	17M-	dDl
l r 8 Ccmb	0a 2	1S- 7	1SSa	1S21	1S21	1M2	dDl
l 8dnC	2a 1	1040aSSa	1a1aaS0-	1a2ha17h	10haaSaS	2M40	dDl
l 8vr p	1S0 1	2hS122	2ha0a6	2h- 607	2h41h7	1M4a	dDl
l 8vr p	1Sh 1	202472	200S- S	2a41- -	200a02	2M12	dDl
l nocmb	2- 2	42a676h	42a4017	4260- 40	420h744	SM27	dDl
l TpnCTcmb	a6 1	27SS70	26S714	27ah2a	2764hh	2M2S	dDl
l TpnCTcmb	aa 1	22aS741	22aa747	2- a2421	2- 1016h	2M44	dDl
l m8mp	- 4 1	64- 7S6	67h- - S	6700hS	67- 742	1M4	dDl
Ar pecmb	17h 1	ah2a10-	h10160-	h2- S114	h1Shha0	1M06	dDl
Ar pecmb	17h 2	- hS7006	- h221a2	- a- h- 0S	- aah1Sh	1M-	dDl
AGw8cmb	2S- 1	26h6- 1	2a27h1	200- 01	2067- 1	2M6	dDl
AGw8cmb	2S7 1	66S4h2	6a24a2	60416a	602- a1	1M67	dDl
AdC	11a 1	1hh2	2- 7h	2610	2- 22	1- M-	dDl
AdTwCcmb	40 1	h27	1S7S	1S27	1SSS	6M61	dDl
RpwCcmb	2- a 1	4S0Sa	42S12	426ha	41aS6	2M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0I	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :u wb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	71 2	64420h	6426Sa	64- 16-	64- - 7S	SM1-	dDI
YTTr peomb	102 1	210	210	227	21h	2M1h	dDI
YTTr peomb	102 2	1S6	h4	h4	ha	6M74	dDI
YTTr peomb	106 1	147S	17- -	14h2	14h2	2M0h	dDI
YTTr peomb	106 2	1S174	h417	h626	h0- 2	- M11	dDI
YTTpomb	ah 1	1170ah1-	117Sa4- a	11h7a720	116a1h7h	2M80	dDI
YTTpomb	ah 2	126- h- 0	12446a2	127242S	127- 6aS	SM00	dDI
ZdCd	66 2	176071	17a407	176h0-	1704SS	SM0S	dDI
ZqpdnComb	hS 1	1107	1127	1227	1107	4M26	dDI
ZqpdnComb	h1 1	- 7a	- - -	260	- 1h	14M4-	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPmTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r :J	S2Nq . FUM

8 sp sb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb dCcmb	20 2	1hhS	2S76	2120	2S7N	- M4	dDw
qCTb nCE	121 1	1S- -	1127	1S60	1S07	4M2	dDw
qpwr Ccd	07 2	74	6-	64	6S	hM1-	dDw
Bspcmb	1- 7 1	7SN46	71066	72Nh6	71N- 6	1M1N	dDw
Bspcmb	1- 0 1	Nh066	h20S1	h2- - 2	h16SS	1M07	dDw
Br pEPRmb	h 1	21S	21h	246	227	NM41	dDw
Bcwb mTG	2Sh 1	62N464N	620hN4S	0S4166h	67- 7- N7	6M01	dDw
Bcwb mTG	2Sh 2	- 11NN74	- Sh7SN2	- S047N2	- Sh610-	SM02	dDw
Bpmb dCr	N1 1	20N47	- - h27	- 0107	- 2hN2	14M6	dDw
5 sob cmb	1SN 1	42	6-	21	42	7SM3S	dDw
5 sob cmb	1S6 1	- - 06	- 460	4Sh2	- 647	1SM0S	dDw
5 sob cmb	111 1	4SS	- 0N	4hh	426	17M12	dDw
5 sPdcmb	4- 1	42h0S1	44- N0S	44Sh- 2	4- N16N	1M01	dDw
5 sPdcmb	44 1	016N- 0h	0412S60	0- 4h6h2	0- 1SS46	1M0-	dDw
5 spenC	12 1	- N- 0h2-	42- N72S	44h2102	41Nh7- N	0MM0	dDw
5 spenC	12 2	6S671	6- S20	62hN7	62221	2M1h	dDw
5 GPmpdCr	- 7 1	1Nh6hh4	1N4- 1- -	1N11S20	1N7S- N7	2M7	dDw
5 GPmpdCr	- 7 2	12S14	12222	11N22	12S1h	1M60	dDw
5 Gpmb cmb	72 2	4h14	7SN1	4NhN	4h64	2M34	dDw
5 nesPT	7h 2	2104	2S00	211S	212S	2M2	dDw
5 nDDr p	6- 2	27h0	2700	27N0	27N0	SMh	dDw
&EwDpnwcmb	176 1	- - -	427	260	- 42	2- M20	dDw
&EwDpnwcmb	176 2	1- -	1- -	1N0	171	2SMN	dDw
Fpecmb	164 1	- N-	227	- 42	- 10	27M2	dDw
Fpecmb	164 2	160	2SS	100	1N1	hM4	dDw
HsonPdCcmb	16S 1	4SN	- SS	4h2	4SS	24M3-	dDw
HsonPdCcmb	16S 2	2NS	- h-	2N-	- 1h	2SM2	dDw
y nPb cmb	167 1	NNhh740	NhN1h77	1S- hNN1S	h426001	NM4	dDw
y nPb cmb	167 2	4S2S7- S	4S6NSS2	- hNh27N	4S27h- S	SMN	dDw
tCocmb	117 1	67S0h72	6N16217	04h6hh2	6h4S- N6	0M2h	dDw
tCocmb	117 2	h7N77-	h72- S4	h- NS6S	h4h6- h	1M1	dDw
tpnC	74 2	1S4h-	1S206	1Sh4-	1S701	- M2	dDw
tpnC	76 2	1N0S24	1NN606	1N- h21	1N674S	1M2h	dDw
tpnC	70 2	614S	6S70	621N	61- N	1M1	dDw
KpEDTnC	N- 1	226	274	276	247	6M0N	dDw
Lr so	2S6 1	2N- 4	- 12-	- S0-	- S1S	7M-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:usb r:J	S2Nq. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	22Nh	2411	2- Nh	2- 6-	2M06	dDw
Lr so	2SN 1	11SNS	11h07	11627	1176S	- M1S	dDw
LdTGmb	6 1	22N4- 6-	2- N67NS	27- 1N1-	24SSh1h	7M1N	dDw
9 sgOr wcmb	24 2	N- 0S02	N46NS-	N- N466	N4S0N1	SM0-	dDw
9 sOgsOr wr	77 2	40- SN	462- N	46N40	460hN	1M17	dDw
9 nPEeor Omb	h4 1	1S20h	1S02h	1S- 6-	1S470	2M2h	dDw
9 nPEeor Omb	h7 1	16061	10N- 0	10N47	104N1	- M70	dDw
9 nPEeor Omb	h6 1	1NS0h	1Nh02	1N7h0	1N74h	2M42	dDw
9 nPEeor Omb	h0 1	1S646	1Sh21	1SN77	1SNS0	1M-	dDw
9 nPEeor Omb	hN 1	20N0S	2NS12	2NS01	20hN4	SM0	dDw
u r noEb omb	17S 1	6N0	660	0S0	6N0	2M1	dDw
u r noEb omb	17S 2	1h0	2S-	210	2S6	4M7	dDw
u dkr P	6S 2	1Sh0	1140	11N-	1142	- M1	dDw
8 GhwDGhpmw	- 1 2	27S	260	210	244	1SM1	dDw
8 nTswwcmb	- h 2	21N1- h	2106h2	216- 0-	2104S1	SM2	dDw
. Ghocmb	1S- 1	6- N1NSh	67611hh	0- 12010	6071hSN	0M1	dDw
. Ghocmb	1S- 2	- 1224N-	- ShS- - S	- S0hNN1	- Sh0767	SM2	dDw
I dsCocmb	47 1	416676h	4- - 64N0	4N772NS	447200h	NM6	dDw
I dsCocmb	47 2	14- h40	144S07	141116	14- S46	1M0	dDw
I r PCcmb	N2 1	N4	06	117	h2	22M2	dDw
I r PCcmb	00 2	S	-	S	1	10- M1	dDw
I r PCcmb	0N 2	16	21	10	1N	14M0S	dDw
I dPdnC	2N 1	1060- 1- 7	1N22NN26	1NS14476	10h021- h	1M6	dDw
I dPr p	1S0 1	h2	N-	142	1S6	2hMh	dDw
I dPr p	1Sh 1	07	h2	07	N1	11M7	dDw
I nocmb	2- 2	4272642	4- 7h167	42- 7N- 4	42N2740	1M6	dDw
I TpnCTcmb	N6 1	2444h1	26S671	270h12	274- 71	- M4S	dDw
I TpnCTcmb	NN 1	2220NS2	2- 01442	22061- 0	22h10h4	- M1h	dDw
I mPmp	- 4 1	641401	6770h7	646- hS	640NN7	1M2	dDw
Ar pecmb	17h 1	hS617h2	h226h42	1S46- 007	h7N41S-	NMS	dDw
Ar pecmb	17h 2	- h770h6	- h1h- 7-	- N2h171	- hS14- -	1M0	dDw
AGsPPcmb	2S- 1	7SS	4N-	460	4N-	- M7	dDw
AGsPPcmb	2S7 1	1210	1Sh2	1- 27	1211	hM04	dDw
AdC	11N 1	1- 004	14416	14S- -	14S04	2M1S	dDw
AdSCcmb	40 1	07N	h42	0N-	N2N	12MS1	dDw
RpsCcmb	2- N 1	417h4	4S24N	42277	41- 67	2M40	dDw

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r :J	S2Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	71 2	67S	700	070	661	1- M6h	dDw
YTTr peomb	102 1	160	2SN	107	1N-	12N8-	dDw
YTTr peomb	102 2	110	h4	Nh	1SS	14M0S	dDw
YTTr peomb	106 1	14- -	147S	17SN	1464	2M6h	dDw
YTTr peomb	106 2	hN- 2	1S71S	1S- 1S	1S210	- M41	dDw
YTTpomb	Nh 1	1171N474	12S64h- h	1- 414SS6	12- - 2466	0M11	dDw
YTTpomb	Nh 2	120N001	1260221	12- 46S1	126S1h0	1MM2	dDw
ZdCd	66 2	12h6-	12776	124hh	12602	2N8S	dDw
ZqpdnComb	hS 1	11N-	1S10	1- SN	110S	12M71	dDw
ZqpdnComb	h1 1	27N	242	27N	27-	- MM1	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:u sb r:J	S2. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
qPmb dCcmb	20 2	2SS7	21S0	2S17	2S42	2P00	dDw
qCTb nCE	121 1	N60	N07	NSS	N40	4PN7	dDw
qpwr Ccd	07 2	62	61	02	67	. R6	dDw
Bspcmb	1- 7 1	4N. - 1	72S. -	4. 67N	7S220	- R S	dDw
Bspcmb	1- 0 1	N4. N4	N7621	NN. S1	N67S2	2P4-	dDw
Br pEPPmb	. 1	1. .	2S2	1N7	1. 7	4P02	dDw
Bcwb mTG	2S. 1	74S1114	64606N-	6- SN62.	6S7. 142	. P7S	dDw
Bcwb mTG	2S. 2	- S- . S7N	- S. S. 2-	- 11SS4-	- SNSSSN	1P1.	dDw
Bpmb dCr	N1 1	20NS4	- 40. 4	- 0N00	- - 4. 1	17P41	dDw
9 sob cmb	1SN 1	7N	7N	07	64	17PS6	dDw
9 sob cmb	1S6 1	2N10	- 026	4S10	- 72S	10P0N	dDw
9 sob cmb	111 1	- S-	47-	424	- . -	2SP14	dDw
9 sPdcmb	4- 1	4726- N	471. S0	461S26	4771. S	1P11	dDw
9 sPdcmb	44 1	0762411	006- 724	00- 7710	06N0171	1P42	dDw
9 spenC	12 1	- N- 0171	41. 02S6	447- 77S	41626- 6	0P44	dDw
9 spenC	12 2	6S7- -	6- 274	6261N	621- 7	2P2.	dDw
9 GPmpdCr	- 7 1	12S- 664	12266N0	122. . 7.	122S1S-	1P10	dDw
9 GPmpdCr	- 7 2	N4. 4	N66.	NN7-	N602	2PS0	dDw
9 Gpmb cmb	72 2	1N6-	1N6S	1. 1S	1N0N	1P4.	dDw
9 nesPT	7. 2	1000	10NS	10- 0	1067	1P0	dDw
9 nDDr p	6- 2	24- 0	22- 4	2- N4	2- 71	4P4N	dDw
&EwDpnwcmb	176 1	- 27	- 10	2N-	- SN	0P17	dDw
&EwDpnwcmb	176 2	1. S	1- -	140	170	1NP1	dDw
Upecmb	164 1	- 7N	- SS	- 60	- 42	1SP6-	dDw
Upecmb	164 2	140	14-	14-	144	1P-	dDw
HsonPCcmb	16S 1	4SS	47S	47S	4- -	6P66	dDw
HsonPCcmb	16S 2	2- -	2- -	- - S	266	21PS2	dDw
h nPb cmb	167 1	06N- . 1.	N. - - 7NN	N. 0NN62	N7- 212-	NP61	dDw
h nPb cmb	167 2	- . 60070	- . N11- S	41S61S.	4S1N- - 2	1P S	dDw
tCocmb	117 1	74N1721	67S4- NN	66- . 4S1	62SN4- 0	1SP2S	dDw
tCocmb	117 2	. 4NN77	. 42NN7	. 0020S	. 76- - 0	1P 2	dDw
tpnC	74 2	7- 2.	7- 0.	7- - 4	7- 40	SP71	dDw
tpnC	76 2	. 07- .	. - . 64	. 2- 2S	. 46SN	2PN2	dDw
tpnC	70 2	- 460	- 6- 4	- . - 4	- 60N	6P4-	dDw
KpEDTnC	N- 1	224	266	26.	27-	1SPSS	dDw
Lr so	2S6 1	1N61	16N-	1022	1076	7P 2	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or TusB r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:usb r:J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	2S0 1	167S	1447	1411	17S2	NP61	dDw
Lr so	2SN 1	0S0.	02- 4	0S2-	0112	1P74	dDw
LdTGmb	6 1	211N767	2- 62- - 2	2- - 4. 67	2201. 74	7PNN	dDw
y sgOr wcmb	24 2	. 47N2N	. 4. N0.	. 4. 7- 0	. 4N417	SP24	dDw
y sOgsOr wr	77 2	44107	4- N60	4- 71-	4- N72	SP06	dDw
y nPEeor Cmb	. 4 1	1- . 66	14. 27	14766	144N6	- P. 7	dDw
y nPEeor Cmb	. 7 1	1666.	1062N	1067-	10- 10	- P24	dDw
y nPEeor Cmb	. 6 1	1. 140	1. N76	2S167	1. 02-	2P67	dDw
y nPEeor Cmb	. 0 1	1S746	11402	1S66-	1SN. -	4P6-	dDw
y nPEeor Cmb	. N 1	20444	2NSN0	2N764	2NS- 2	2PSS	dDw
u r noEb cmb	17S 1	60-	61-	760	61N	NP66	dDw
u r noEb cmb	17S 2	1. 0	1N-	1. -	1. 1	- P6-	dDw
u cdkr P	6S 2	720	62S	74S	762	NP. N	dDw
8 GhwDGhpmw	- 1 2	1. 2	- - -	2SN	244	- 1P6N	dDw
8 nTswwcmb	- . 2	210S40	216S7.	21- 6SN	217701	SPN2	dDw
F Ghocmb	1S- 1	77N. N. N	6471N. N	66SS74N	6214114	NP0N	dDw
F Ghocmb	1S- 2	- SN0712	- SN1NS6	- 106444	- 117274	1P0S	dDw
I dsCocmb	47 1	- 770070	427- 626	42S1. - 6	4SS444S	. P6N	dDw
I dsCocmb	47 2	1- . . 24	14- 6- S	146- 21	14- 2. 2	2P24	dDw
I r PPCcmb	N2 1	111	121	. 6	11S	11P4N	dDw
I r PPCcmb	00 2	0	-	1S	0	7SPS-	dDw
I r PPCcmb	0N 2	21	1.	2-	21	. P72	dDw
I dPdnC	2N 1	10- 22S20	1060460-	10. 1. 4N.	106- N0- S	1P0S	dDw
I dPr p	1S0 1	1SN	160	1SS	127	2. PS6	dDw
I dPr p	1S. 1	1SN	7S	27	61	6. P. N	dDw
I nocmb	2- 2	47N. - 00	47N0417	40S0761	462N11N	1P4.	dDw
I TpnCTcmb	N6 1	20000.	206627	20601.	200S41	SP2-	dDw
I TpnCTcmb	NN 1	24. N. 6S	244076N	24677. 0	240S0SN	1PS6	dDw
I mPPmp	- 4 1	021. 17	0- 27- 2	04- NS6	0- 2071	1P4.	dDw
Ar pecmb	17. 1	0N7S- . 0	. 2S. - - 7	. 2. - - 6S	N0N4- 64	. P22	dDw
Ar pecmb	17. 2	- . SNS. 4	- N012- 2	4111N. 4	- . 6- 04S	- P20	dDw
AGsPPmb	2S- 1	- . 2	2. 2	- 07	- 7-	17P1.	dDw
AGsPPmb	2S7 1	N7S	0. 2	010	0N6	NP7S	dDw
AdC	11N 1	27- 4	117- N	2660	77NS	. 2P4.	dDw
AdSCcmb	40 1	. 07	11. 2	0. 2	. N6	2SP. 2	dDw
5 psCcmb	2- N 1	44SS2	44646	44462	44- 0S	SP07	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPnTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdP:u sb r :J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	71 2	4S-	440	42S	42-	7P16	dDw
YTTr pe omb	102 1	27N	260	242	276	4P.N	dDw
YTTr pe omb	102 2	111	122	176	1- S	10PN4	dDw
YTTr pe omb	106 1	127S	12- -	147S	1- 11	. P2S	dDw
YTTr pe omb	106 2	. 717	. N. -	1S26S	. NN.	- P00	dDw
YTTpomb	N. 1	1SS4S0- .	11N174- 0	110N1. N4	1121202S	. PS7	dDw
YTTpomb	N. 2	127. . 16	1272006	1- S62- 2	1202. 07	2P2N	dDw
ZdCd	66 2	. 6. 0	. 0. S	. 6- -	. 0S0	SPN1	dDw
ZqpdnComb	. S 1	12017	12. . N	1- 117	12. 42	1P7.	dDw
ZqpdnComb	. 1 1	- 160	267S	2007	2N64	. P41	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T8biqC. :MwCICI:J	1
Twip:A:cqe p:dQobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	417	- 41	- 00	- 0u	aR06	CI l
d. iqe C. E	121 1	- 07	- 27	47u	- u6	10R47	CI l
dIl p. qO	07 2	4	7	-	4	27RSS	CI l
Bwldpe	1- 7 1	2a07	267S	2aSa	2u47	6RS4	CI l
Bwldpe	1- 0 1	72- 7	721u	7S1u	7170	2R 4	CI l
BplE8dpe	a 1	44	4a	- a	44	11R42	CI l
Bdqe biG	2Sa 1	6106110	620aaa6	7a71a0a	61- 6S- S	2R0-	CI l
Bdqe biG	2Sa 2	2au0- SS	- 1S0- 62	- S61a- a	- S722SS	1Raa	CI l
BlCe q p	u1 1	114- S	1S12a	uua7	1S171	12R4a	CI l
9 wne dpe	1Su 1	1-	21	7S	2u	0SRua	CI l
9 wne dpe	1S6 1	- 7- 4	- 442	- S07	- - 7S	0R24	CI l
9 wne dpe	111 1	- 04	- 60	2a-	- 47	12Ra7	CI l
9 w8Cdpe	4- 1	12- 1	1- 11	12- 1	127u	- R60	CI l
9 w8Cdpe	44 1	74- 70	76S17	7442-	74a- 2	1R01	CI l
9 wlr C.	12 1	- u- 1SSa	411a2a6	4477Sa6	41- 71- 4	0R77	CI l
9 wlr C.	12 2	7u742	6S610	7a446	7a7- 7	1R07	CI l
9 G8Clq p	- 7 1	0au- 64	0u7u4S	00170a	0u7261	1R01	CI l
9 G8Clq p	- 7 2	7726	7S26	4uSa	712S	0R1u	CI l
9 GlCe dpe	72 2	- aa4	- a00	- u- 4	- a- 7	2R24	CI l
9 Cr w8	7a 2	4u-	- u-	42-	4- S	11R01	CI l
9 Ct t pl	6- 2	14a-	176-	14SS	14u6	7R72	CI l
TEl t ICl dpe	176 1	u	42	7S	- -	66R17	CI l
TEl t ICl dpe	176 2	1-	20	10	1a	- 6R07	CI l
UIr dpe	164 1	127	42	7u	07	7uR0a	CI l
UIr dpe	164 2	0	7S	1S	22	1SuR7S	CI l
HwnC8q dpe	16S 1	u-	127	07	a4	2uR 6	CI l
HwnC8q dpe	16S 2	12S	1- 0	110	124	uR61	CI l
h C8e dpe	167 1	u42a4aa	uu27a- S	u0- 4SuS	u66- 10S	2R4S	CI l
h C8e dpe	167 2	- a0766-	- a70- a4	- auaaa0	- a04- 71	SR41	CI l
& ndpe	117 1	62a- - ua	6416776	62u1u27	6- - S7aS	1R1u	CI l
& ndpe	117 2	a- S7- 6	a2S670	a4- 141	a- 1447	1R21	CI l
&C.	74 2	- 2001	- 2406	- - - - -	- 2u6S	1R -	CI l
&C.	76 2	7aSa1S	6SSu4-	6S44- 1	7au02u	1R10	CI l
&C.	70 2	171u1	1747-	14u72	17162	1Rau	CI l
KIEt iC.	u- 1	264	264	2- 4	274	6Rd-	CI l
Lpwn	2S6 1	2747	2- 47	240u	2476	4R17	CI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	Tqbiq C. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMdp:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	2S- 4	1a2u	21ua	2S7S	6R41	CI I
Lpwn	2Su 1	a072	a770	a6S0	a6- a	1RS7	CI I
LqiGdpe	6 1	2161uS1	22022u1	22- 6- aS	222- 4a1	2R7-	CI I
y wg. pl dpe	24 2	a60	1142	u- -	au1	17R0a	CI I
y w. gw. pl p	77 2	2u24	2a44	2070	2u41	- R -	CI I
y C8Er np. be	a4 1	17S	207	- 27	27S	- 6RS6	CI I
y C8Er np. be	a7 1	2SS	110	27S	1ua	- 7R66	CI I
y C8Er np. be	a6 1	227	410	242	2a4	- 6RS6	CI I
y C8Er np. be	a0 1	1Su	110	07	1SS	22RS7	CI I
y C8Er np. be	au 1	2SS	- 27	- 7S	2a2	20R77	CI I
mpOnEe dpe	17S 1	0-	0-	7-	60	10R 2	CI I
mpOnEe dpe	17S 2	2-	- S	- -	2a	10R6-	CI I
mqCkp8	6S 2	1- 1S	12uS	1- S0	12aa	1R20	CI I
NGCI t GCIbI	- 1 2	242	207	242	27-	0R61	CI I
NCiwI I dpe	- a 2	1- - S0	1- 717	1- - 2-	1- - u2	SRu0	CI I
F GCndpe	1S- 1	6- - S1S2	6- 76u2S	62aSS6u	6- 2766-	SR7-	CI I
F GCndpe	1S- 2	- S4aa16	- SS6212	- Saa- a0	- S71u42	1R7-	CI I
DOw. ndpe	47 1	4S- 1720	41- S- - 1	41Sa2- 0	4SaS- 67	1R20	CI I
DOw. ndpe	47 2	1421u-	14S- 27	144004	142420	1R70	CI I
Dp8p. dpe	u2 1	6	74	- S	6	04SR26	CI I
Dp8p. dpe	00 2	S	S	0	2	10- R21	CI I
Dp8p. dpe	0u 2	1a	1a	1-	10	2SRu	CI I
Dqq8QC.	2u 1	2422u-	2- a100	2- 0- 67	2- a6Su	1RS4	CI I
Dq8vpI	1S0 1	7u	1Su	1Su	a2	- 1R7S	CI I
Dq8vpI	1Sa 1	27	- -	7S	- 6	- 7R27	CI I
DOndpe	2- 2	0- 02u	02401	0- 062	0- - 2S	1RSS	CI I
DiIC. idpe	u6 1	uSu	0a2	07S	0u-	- Ru4	CI I
DiIC. idpe	uu 1	- 7- 4	- 6u4	- 726	- 7u1	2R4a	CI I
Db8bI	- 4 1	2a21a7	2a260u	2u6- - 1	2aS4S1	1R22	CI I
cpIr dpe	17a 1	ua64aSa	ua7647a	uu0u21u	ua- - 1a7	SR74	CI I
cpIr dpe	17a 2	- u2a0- 7	- u2172-	- uu240-	- u44700	SRu6	CI I
cGw8Bpe	2S- 1	- - -	2a2	- 10	- 14	6R6u	CI I
cGw8Bpe	2S7 1	6u-	607	7Su	622	17Ru0	CI I
cq	11u 1	267S	2742	27a2	27a7	2RSa	CI I
cqiw. dpe	40 1	1142	1- u-	1227	127S	aRu2	CI I
5 Iw. dpe	2- u 1	1SS	127	60	a0	- SR1S	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t plwiCI:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T 8piqC. :MwOCI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	71 2	6S	0S	uS	0S	14R2a	Qt l
Yiiplr dpe	102 1	42	a2	42	7u	4aR4u	Qt l
Yiiplr dpe	102 2	S	2u	61	- S	1S- R26	Qt l
Yiiplr dpe	106 1	12Su	1107	1127	110S	- R7a	Qt l
Yiiplr dpe	106 2	a006	1S71S	1S- 74	1S21-	- R0a	Qt l
Yiildpe	ua 1	11- a0066	12SS6016	111a012a	117- - u0S	- R36	Qt l
Yiildpe	ua 2	12467a-	1271S0u	126471u	1274S6-	SR04	Qt l
Zq O	66 2	2440	2- 0S	24u4	24- 4	2R u	Qt l
ZdOC. dpe	aS 1	7SS	7a2	427	7S6	16R71	Qt l
ZdOC. dpe	a1 1	160	07	127	122	- 0R77	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	1S2	1S2	1S2	1S2	SN8S	dDl
q. Tb C. h	121:1	42	60	42	-S	2NNN0	dDl
qpl r . cl	0-:2	6	2	7	4	-6N00	dDl
Bwpcmb	17-:1	42	-N	-S	-S	16N06	dDl
Bwpcmb	170:1	-S	N7	-S	61	71MS	dDl
Br ph8&mb	:1	77	44	21	72	74N0S	dDl
Bdl b mTE	2S :1	640 6N7	6610 42	6-1S4N6	6-76S70	1M11	dDl
Bdl b mTE	2S :2	724 N76	7224067	71270S7	71 474	2N8	dDl
BpCb c r	N1:1	-71N	4 47	-S74	-S N	7NN4	dDl
Fwob cmb	1SN:1	-4	0-	77	-4	7NN46	dDl
Fwob cmb	1S6:1	76S1	7N60	7674	70S1	7M7	dDl
Fwob cmb	111:1	740	7-1	7-0	7-2	1N70	dDl
Fw8lcmb	47:1	2-	24-	270	240	4N76	dDl
Fw8lcmb	44:1	7- 26	767 S	7-04-	76S2S	SM2	dDl
FwpeC.	12:1	244-711	242N261	247S217	2474- -	SN7N	dDl
FwpeC.	12:2	2 664	2 S 6	2 -S-	2 422	1N8S	dDl
FE8Cpc r	7-:1	462- 6	44NN-7	47N120	44 N-N	2N07	dDl
FE8Cpc r	7-:2	7174	71 2	2-SS	2 42	17N84	dDl
FEpCb cmb	-2:2	1140	121S	N7	1117	1SMS	dDl
FCew8T	- :2	70	27	70	72	27MS	dDl
FCDDr p	67:2	6N7	667	007	0S0	NN2	dDl
&hl DpCl cmb	1-6:1	10	N	S	N	1SSN82	dDl
&hl DpCl cmb	1-6:2	7	S	7	2	N6N0S	dDl
Upecmb	164:1	0-	-N	-N	64	1-N86	dDl
Upecmb	164:2	27	77	70	71	22M71	dDl
GwoC8c cmb	16S:1	142	1SS	N7	1SN	20N07	dDl
GwoC8c cmb	16S:2	170	S	147	127	27M6	dDl
HC8b cmb	16-:1	S-6 11	716-61	SN20-N	1-2S00	1M6	dDl
HC8b cmb	16-:2	42N16N2	4166NS0	7 -40	414 74-	7M42	dDl
t. ocmb	11-:1	6622 72	6N-0-64	66071S2	6010N66	1NN4	dDl
t. ocmb	11-:2	1S7-S72	1S116-S	-N7S2	1SS1661	7M7	dDl
tpC.	-4:2	7N	761	7-6	76	4NN-	dDl
tpC.	-6:2	2 N4	2N-S	2 10	2 10	2N2	dDl
tpC.	-0:2	N7	1S6	1S6	N	17N80	dDl
KphDTC.	N7:1	2 S	241	2-0	267	M44	dDl
Lr wo	2S6:1	077	6N	622	6N2	NN21	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	677	6S6	644	62N	7M1	dDl
Lr wo	2SN:1	2 N4	204-	2077	2N21	-N81	dDl
LcTEcmb	6:1	240766N	24S1-2S	27-N67	2411206	2M41	dDl
9 wg. r l cmb	24:2	1SN	1SS	60	2	24N8-	dDl
9 w. gw. r l r	- - :2	NS	-0	00	01	10M04	dDl
9 C8heor . mb	4:1	12-	2SS	2SN	10N	2-M12	dDl
9 C8heor . mb	- :1	77	-S	-S	44	21M06	dDl
9 C8heor . mb	6:1	1SN	1-S	1SN	122	1 M0N	dDl
9 C8heor . mb	0:1	10	2	10	42	1S7M1	dDl
9 C8heor . mb	N:1	60	60	60	60	SM8S	dDl
u r Cohb cmb	1-S:1	0	0	S	4	N6M0S	dDl
u r Cohb cmb	1-S:2	7	S	S	1	107M21	dDl
u cdkr 8	6S:2	-7	-7	40	-1	0M12	dDl
3 ECl DECpm	71:2	1 2	20-	160	211	26MN0	dDl
3 CTWl cmb	7 :2	11SNS	1S -4	1S07N	1S 24	1M1N	dDl
y ECocmb	1S7:1	60S6614	6NN62 -	6044SNS	600N 0	1M4S	dDl
y ECocmb	1S7:2	77NN666	7200NS7	711 4S2	7261 -0	4M1-	dDl
l dw. ocmb	4- :1	472 6-2	44-0077	4761N74	47N7S07	1M12	dDl
l dw. ocmb	4- :2	1- -264	1-11N1	144S1-	1-S1-7	7M0	dDl
l r 8 . cmb	N2:1	:47	:	:1	:1N	:12-M6	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1S	14	1	14	71M46	dDl
l c8dC.	2N:1	1N0N6N	1N244S	1N1141	1N7N10	1M4	dDl
l c8vr p	1S0:1	142	142	0-	11	72M27	dDl
l c8vr p	1S :1	42	N7	2	02	70M8	dDl
l Cocmb	27:2	2N42N	2N04-	2 664	2N 46	2M22	dDl
l TpC. Tcmb	N6:1	4SN	-0-	4-S	40N	1NM1-	dDl
l TpC. Tcmb	NN:1	1142	12SN	0N7	1S4-	21MN	dDl
l m8mp	74:1	7SSS7-	2 N6 0	7S7044	7SSN2-	SMN0	dDl
Ar pecmb	1- :1	700-72	46-S21	- -1200	46461S	SM2	dDl
Ar pecmb	1- :2	422 4-1	4S1N662	7 S160S	4S4 2N	4M1S	dDl
AEw8cmb	2S7:1	277	72-	2N7	2N1	16M76	dDl
AEw8cmb	2S- :1	-42	-60	02-	611	16M20	dDl
Ac	11N:1	1177	11-N	1N6N	17N0	7SM8N	dDl
AcTw. cmb	40:1	10-	142	1 2	16	1-M82	dDl
5 pw. cmb	27N:1	42	2-	2-	71	71MS	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Vw. wocmb	-1:2	1S	10	1S	12	71MS	dDl
YTTr pecmb	102:1	77	-S	0-	-7	7 M04	dDl
YTTr pecmb	102:2	22	77	-6	70	4-MM4	dDl
YTTr pecmb	106:1	1277	11 2	11N7	12S7	2M27	dDl
YTTr pecmb	106:2	11SS-	11S 4	1S2-4	1S0N4	4M2N	dDl
YTTpcmb	N :1	12212-1N	12402216	12407614	127N6116	1M21	dDl
YTTpcmb	N :2	144N116	14S0-NS	120-4S	1700S7-	6M6	dDl
Zc d	66:2	117	117	177	12S	M02	dDl
ZqpdC. cmb	S:1	7 2	-2-	4N7	460	14M62	dDl
ZqpdC. cmb	1:1	1SS	0-	N7	N6	14M0N	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 2SB:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l T RdNpamI e pas	S77LF: UMd

3l l e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9 pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-0-	161-	1 --	101-	12M1u	dDP
q. Tde C. h	121J1	16 u6	1072u	104 -	1020S	1M1S	dDP
qlPp. cd	0-J2	2--	260	242	2--	4M1	dDP
Bl l dbe	17-J1	1uS12	1 214	1 122	1u0u7	7M6	dDP
Bl l dbe	170J1	72264	776S1	77241	77S7-	2M3	dDP
BplhNbe	J1	22-6	224S	216S	221	2M12	dDP
BdPe bTE	2S J1	6-707-	64-u7	6-4u14u	6-14676	SM0-	dDP
BdPe bTE	2S J2	7227 0-	7102 S7	772--4u	724SuSu	2M4S	dDP
BlCe c p	u1J1	44S1	44-	4474	4471	SM66	dDP
Fl oe dbe	1SuJ1	27u	22-	710	26S	1 M14	dDP
Fl oe dbe	1S6J1	41-	77-1	41u4	7u u	12M10	dDP
Fl oe dbe	111J1	2u12	264	24u4	264	6M1	dDP
Fl Ndbe	47J1	1277	124 6	121u6	1274S	1M26	dDP
Fl Ndbe	44J1	22 S	272u47	272Su2	271741	SM6	dDP
Fl lr C.	12J1	27472S1	27-76 4	27--0-2	27-Suu2	SM2	dDP
Fl lr C.	12J2	2 221	2u6S7	2uS-2	2u626	2M34	dDP
FENCl c p	7-J1	7u42 1	701112	766122	707u42	2M1	dDP
FENCl c p	7-J2	2010	26SS	20-	26 2	7M3-	dDP
FElCe dbe	-2J2	626u	62Su	6-S-	6720	2M4u	dDP
FCrl NT	- J2	4u44	4uu1	-S0u	4 74	2M4	dDP
FCDDpl	67J2	u07	uu47	11S	uu 0	2M1-	dDP
&hPDlCPtbe	1-6J1	77	10	u	1	6-M10	dDP
&hPDlCPtbe	1-6J2	7	1S	S	4	114M0S	dDP
Ulr dbe	164J1	42	2	42	-u	4 M4u	dDP
Ulr dbe	164J2	4S	77	2S	71	72M07	dDP
Gl oCNdbe	16SJ1	60	42	u7	64	72M17	dDP
Gl oCNdbe	16SJ2	120	11S	147	120	17M16	dDP
HCNdbe	16-J1	441406	701011	1712uu	714u2-	1M0-	dDP
HCNdbe	16-J2	4121S-7	41-4471	427u 7	4101404	1M46	dDP
t. odbe	11-J1	6014724	6u7u021	60 --11	60u2u-2	SM7	dDP
t. odbe	11-J2	062 1	uu2S1	1SS41u7	u --u	1M41	dDP
tlC.	-4J2	2426S	24u00	2-44S	24u-	2M70	dDP
tlC.	-6J2	47u67S	4461-6	4-76u2	4461-6	1M0	dDP
tlC.	-0J2	1S 20	1S -4	117	11S 7	2M7	dDP
KlhDTC.	u7J1	2u0	274	260	267	1SM77	dDP
Lpl o	2S6J1	u6-7	u60-	u-0S	u677	SM0-	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl Rdpamle pas	S77LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0041	0204	0-S2	0-S6	7M11	dDP
Lpl o	2SuJ1	74446	74-7-	7417-	74702	SM01	dDP
LdEdbe	6J1	24Su 2u	2427272	240SS0	2474SuS	1M71	dDP
9l g. pPdbe	24J2	1S7416	1S7-60	1S-uu4	1S42u	1M77	dDP
9l . gl . pPp	- - J2	144S	1-6S	1070	1-0	M4-	dDP
9 CNr op. be	4J1	10 -4	1u6uS	10u -	1u106	2M4S	dDP
9 CNr op. be	-J1	216-1	22220	22011	221 6	2M7	dDP
9 CNr op. be	6J1	24217	2-S4u	2-1 S	24u10	2M17	dDP
9 CNr op. be	0J1	12uu1	14441	17072	176u-	-M01	dDP
9 CNr op. be	uJ1	7-S0u	7-2u0	7- 22	7-42	1M24	dDP
mpCohe dbe	1-SJ1	17	17	17	17	SM3S	dDP
mpCohe dbe	1-SJ2	7	7	S	2	u6M0S	dDP
mdkpN	6SJ2	1440	167S	1667	1-uS	0M7u	dDP
3ECPDECIbP	71J2	2Su	277	2Su	210	6M66	dDP
3CTl PPdbe	7 J2	020SS	042SS	0-746	04Su2	1M0	dDP
y ECodbe	1S7J1	6uS2 24	6u-2014	6u260-S	6u20467	SM76	dDP
y ECodbe	1S7J2	71uu066	721467-	772uu 7	7244S u	2M7S	dDP
: dl . odbe	4-J1	47- - uu7	4-S62-1	470224u	4411461	1M10	dDP
: dl . odbe	4-J2	14u41u	14uu07	1-40S4	1-S66-	2M77	dDP
: pNp. dbe	u2J1	u20	u 0	u S	u02	4M41	dDP
: pNp. dbe	00J2	4S	77	10	7S	4SM3-	dDP
: pNp. dbe	0uJ2	1S	11	1S1	11S	uM22	dDP
: dNdC.	2uJ1	24-0u-	27002u	24S-40	2417-4	1M0	dDP
: dNpl	1S0J1	1S4uu	11-14	12S22	11741	6M1	dDP
: dNpl	1S J1	1S S-	1Su46	1S001	1Su41	SM02	dDP
: Codbe	27J2	2S0 06	212762	2S 707	2S S4	1M30	dDP
: TC. Tdbe	u6J1	72SS	7S2-	7S-S	7S 2	7M36	dDP
: TC. Tdbe	uuJ1	27S2u	22 S7	22-44	22u2-	1M1S	dDP
: bNbl	74J1	7S7u6	7S0-00	7S4 00	7S-404	SM02	dDP
Apl r dbe	1- J1	41 4-4	4S0727	414141	41767	SM36	dDP
Apl r dbe	1- J2	7 0-u77	4S10111	41u -27	4S6Su22	2M0	dDP
AEl NNdbe	2S7J1	70	0u0	0	S1	1M32	dDP
AEl NNdbe	2S-J1	274- -	22012	27-uS	2724	2M32	dDP
Ac	11uJ1	17-S	1Su7	12-S	122u	1SM0	dDP
AdT. dbe	40J1	60-2	6- 7	62-2	6-72	7M1	dDP
5ll . dbe	27uJ1	727u4	72606	7710u	72046	1M27	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl Rdpamle pas	S77LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	007	1SSu4	1S410	1SS 1	7M1	dDP
YTpIr dbe	102J1	77	60	1SS	60	-SM3S	dDP
YTpIr dbe	102J2	2u	2u	44	77	2uM0	dDP
YTpIr dbe	106J1	17u7	170-	17-u	1702	SM7	dDP
YTpIr dbe	106J2	1S-u2	1S 72	1Su00	1S0 0	1M04	dDP
YTTdbe	u J1	122Su01	12-46S14	127u0710	127uS6u7	1M16	dDP
YTTdbe	u J2	172727	17S042u	17 6 1	1742-2	7M6	dDP
Zc d	66J2	261S	206S	2-uS	26-S	7M04	dDP
ZddC. dbe	SJ1	17	1-S 2	14066	1461	7M4	dDP
ZddC. dbe	1J1	7442	7426	7274	7760	7M4	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r:	S- 4q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	614N- 2	6Shh0J	611026	61210N	SM4S	dDw
qCTb nCE	12171	42Sh	4J- 4	44h-	4412	4NS1	dDw
qpwr Ccd	0J72	42h2	4Sh0	4211	42SS	2M-	dDw
Bspcmb	1- J71	40JS12	404- hS	40hhS0	4064- 0	SM0-	dDw
Bspcmb	1- 071	N2hS0J	N- SS6J	N46- 1-	N- J1J1	1M16	dDw
Br pEPmb	h71	2J62	2J60	24h4	2J41	1M62	dDw
Bcwb mTG	2Sh71	6N- 0JS6	606JN- 6	60ShN41	6001S61	SM1J	dDw
Bcwb mTG	2Sh72	- 1hhSS1	- 1h41J2	- - 126h6	- 2- J2N-	2NS0	dDw
Bpmb cCr	N171	0- 44	N21h	N061	N1SN	NNM2	dDw
5 sob cmb	1SN71	2J4	- 60	2S4	20J	- SM20	dDw
5 sob cmb	1S671	4- J1	44N4	4226	4- J4	2M10	dDw
5 sob cmb	11171	2JJ0	2- 2J	2406	24J-	4NMS	dDw
5 sPlcmb	4- 71	- 16- hh	- 2S2- 0	- 2J1S-	- 2SJ0h	1M16	dDw
5 sPlcmb	4471	J- hS- 2S	JJ- 4- 1N	J- 4S0- 6	J4210h1	1MMJ	dDw
5 spenC	1271	6- S- 0J0	60J0002	6NSN402	662- - - 4	4M2S	dDw
5 spenC	1272	NJ- 6J	N4Jh-	N41S0	N46NN	SM0J	dDw
5 GPnpcCr	- J71	h6h6S04	12NN6J14	1J- SNN- 6	126- S40J	22M2h	dDw
5 GPnpcCr	- J72	14SJ2S	1J2244	1JN1SN	1JS2h1	JM16	dDw
5 Gpmb cmb	J272	- 0- 4h	- 066S	- 6061	- 02J6	1M4-	dDw
5 nesPT	Jh72	4NS- 0	4h2NJ	4NSh4	4N402	1M4J	dDw
5 nDDr p	6- 72	1064S6	1006hN	102- Sh	10J401	1M0S	dDw
&EwDpnwcmb	1J671	60h6J	60h4h	0SN22	6Nh12	2M4S	dDw
&EwDpnwcmb	1J672	2NJ- 0	2NJN4	2NN1N	2N646	SM2	dDw
Fpecmb	16471	J- hJ2	J6NNS	J4NN1	JJ2- N	2M01	dDw
Fpecmb	16472	2- 1N0	22- 02	224S2	226J4	2MS4	dDw
HsonPCcmb	16S71	6S00-	6- hh6	616- J	621- J	2M6h	dDw
HsonPCcmb	16S72	2h- N6	2h- 06	2hJ6h	2h444	SM10	dDw
y nPb cmb	16J71	h6hJ122	h4N0hSN	h- 6N06-	hJ10264	1M04	dDw
y nPb cmb	16J72	416S2- 1	41- - h6J	4- 1- 012	42S26- 6	2M1	dDw
tCocmb	11J71	0S240JJ	6h6h10J	6h22NJJ	6h02262	SM0-	dDw
tCocmb	11J72	hhS6S1	h66JJS	1S26SJJ	hh44S2	- NS1	dDw
tpnC	J472	- 1- 220J	- 11- 1h-	- SJ2Sh2	- Shh1N0	1MJ	dDw
tpnC	J672	J6SNJSSS	JJJN0S14	JJ162621	JJ611J4J	SMM-	dDw
tpnC	J072	14216N-	14- 2602	14SS64-	141N- - -	1MJ	dDw
KpEDTnC	N- 71	- S2	- - J	- 20	- 22	JM2h	dDw
Lr so	2S671	40N40J	406420	4NNJJ-	4N11J2	1MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP usb r:	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- hhNSS	4S1S- S	4S206-	4S11hN	SM10	dDw
Lr so	2SN71	1NhSh- -	1Nh- 0- J	1h124- N	1NhhS- J	SM02	dDw
LdTGmb	671	244h10S	2- h622S	2422J1-	24226- 4	1NSh	dDw
9 sgOr wcmb	2472	N1001S	NSh140	N1114-	N12660	SMJJ	dDw
9 sOgsOr wr	JJ72	N4211-	N2h04h	N100N2	N2hNN1	1M40	dDw
9 nPEeor Cmb	h471	264J1	20S44	20244	26h1-	1M-	dDw
9 nPEeor Cmb	hJ71	J26N	JJh-	J026	JJ2h	4M20	dDw
9 nPEeor Cmb	h671	hh12	hNhJ	1S101	hhh-	1M4	dDw
9 nPEeor Cmb	h071	- - 60	- 606	- 442	- 4hJ	4M0S	dDw
9 nPEeor Cmb	hN71	hS0N	hSS-	h2S-	hShJ	1M1	dDw
u r noEb cmb	1JS71	1146N6	11J- JN	116- - -	11J4Jh	SM02	dDw
u r noEb cmb	1JS72	- 62- 6	- 66JS	- 6620	- 6JS4	SM04	dDw
u cdkr P	6S72	2J406	2J- 26	240hN	2J2SS	1M41	dDw
8 GhwDGhpmw	- 172	N- 6h	0J00	N2h4	NSNS	JM41	dDw
8 nTswwcmb	- h72	42h- N2	42JJS2	421h6h	42J61N	SMM0	dDw
. Ghocmb	1S- 71	6h0Nhh4	6N- 2- 40	6N- 12J1	6NNSN64	1M24	dDw
. Ghocmb	1S- 72	- 1J10N-	- 16h42J	- - - N2SJ	- 21hNS4	- M2S	dDw
I dsCocmb	4J71	46JSSh-	4Jh4JJ0	44N4hS4	4J06J1N	1MM4	dDw
I dsCocmb	4J72	1JS6N1	1JS1J6	1J61hN	1J2- 4J	2M2S	dDw
I r P Ccmb	N271	244	1NJ	1Nh	2S6	1JM10	dDw
I r P Ccmb	0072	1JS	120	1J-	14-	1SM14	dDw
I r P Ccmb	0N72	11-	1S-	112	1Sh	JMS4	dDw
I dPdnC	2N71	14J666JN	140JN- 1h	14N2S6N2	1401J22S	SM1S	dDw
I dPr p	1S071	2N10	20Jh	20Sh	2061	1M16	dDw
I dPr p	1Sh71	2410	2- N4	20- 4	2J11	0M6h	dDw
I nocmb	2- 72	6N1- 4	6N646	6NS6N	6N2N-	SM46	dDw
I TpnCTcmb	N671	2h- SJ4	2NN66S	2NNN66	2hS1h-	SMMJ	dDw
I TpnCTcmb	NN71	261Jh26	2624hSS	26J2S10	26- Sh4N	SM01	dDw
I mPmp	- 471	- - 21h6	- 2014-	- 2S0- J	- 266h1	1M06	dDw
Ar pecmb	1Jh71	1SSNSNJ4	hN- 04NS	h020- hN	hNN1h1S	1MM-	dDw
Ar pecmb	1Jh72	4S- 102N	4Sh4J06	42NhhSh	41- N0- N	- M2J	dDw
AGsPPcmb	2S- 71	24Sh	2- 60	2- - 4	2- 0S	1MJh	dDw
AGsPPcmb	2SJ71	J- S1	J6S1	JJ4-	J4N2	2M1S	dDw
AdC	11N71	N6hJ	N6J-	h14J	NN- 1	- MSh	dDw
AdSCcmb	4071	hNJ6-	1SSN21	1S1NJ2	1SS412	1M60	dDw
RpsCcmb	2- N71	0016S	0N1N-	0h020	0N- J6	1M6J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r :	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0SSNS	6h10-	6N0- 1	6h- 2N	SM1h	dDw
YTTr pe omb	10271	1JN- J	1JNJ2	1616S	1Jh4h	1M1J	dDw
YTTr pe omb	10272	046h	0014	00SN	06- S	1MM-	dDw
YTTr pe omb	10671	11014	12SS6	12214	11h0N	2M1S	dDw
YTTr pe omb	10672	16S6S	1J426	161h4	1JNh-	2MIN	dDw
YTTpomb	Nh71	1- S6- N16	1- 2- 2- 4N	1- S1J2- 1	1- 1S- 0hN	SMM0	dDw
YTTpomb	Nh72	1- hN- 04	144h106	1JS1J21	144h6hS	- M6	dDw
ZdCd	6672	h1104	hS0J2	NNNh6	hS204	1M4	dDw
ZqpdnComb	hS71	6- - S-	6- N- N	6J4h6	6421-	1M0N	dDw
ZqpdnComb	h171	141hh	141h1	1- h24	141SJ	1M1	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP u sb r:	S- Jq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6- S- 1N	6- - 40h	61h020	620N41	1M1J	dDw
qCTb nCE	12171	4626	4Jh-	4- N4	4J- 4	2NMh	dDw
qpwr Ccd	0J72	42SN	4410	42- S	42NJ	2M0N	dDw
Bspcmb	1- J71	4N2J4S	400- h4	40h6JS	40hN61	SM14	dDw
Bspcmb	1- 071	N41- J6	N4h1h0	NJh0hS	NJS114	1N8h	dDw
Br pEPmb	h71	2JS6	2Jh2	2J22	2J4S	1NMS	dDw
Bcwb mTG	2Sh71	6N0h2J-	6hNh446	6NJ1ShS	6hS6Jh6	1N86	dDw
Bcwb mTG	2Sh72	- 46- 11-	- SJ02hJ	- - 20h- -	- 2N20NS	6M2h	dDw
Bpmb cCr	N171	04NJ	NSN6	NJ1h	NS- S	6M40	dDw
5 sob cmb	1SN71	246	2JN	2J4	2J-	2M12	dDw
5 sob cmb	1S671	4J26	4NJh	42Jh	4J4N	6M01	dDw
5 sob cmb	11171	2422	24h0	2- N2	24- 4	2M41	dDw
5 sPlcmb	4- 71	- 2- N0J	- 24062	- 26061	- 2J1- -	SM4J	dDw
5 sPlcmb	4471	JJ426- N	J- 0N1h1	JJSSh24	J40- h1N	1M16	dDw
5 spenC	1271	66- SNS4	6h0NNh4	0S22hN2	6N00J6S	- M12	dDw
5 spenC	1272	NhS0N	N000h	N06J4	NN10S	SMMh	dDw
5 GPmpcCr	- J71	10SJN04-	2S0- 604N	220h6N0J	2S1h04JJ	14Mh	dDw
5 GPmpcCr	- J72	1hS- 64	1h4- 60	2SSh0h	1hJ2- 0	2M0J	dDw
5 Gpmb cmb	J272	- N44N	- 0h0S	- 6hJ4	- 00h1	2N82	dDw
5 nesPT	Jh72	JSh41	J141h	4h- Jh	JSJ0-	2M1-	dDw
5 nDDr p	6- 72	1006hJ	1NSS01	10611-	100hJh	1M12	dDw
&EwDpnwcmb	1J671	6N2Sh	6h40-	6N242	6N641	1N8J	dDw
&EwDpnwcmb	1J672	- S1N1	- SJh2	2hJh-	- S122	1M00	dDw
Fpecmb	16471	J40- h	J4- 4J	J64N0	JJ1hS	2N80	dDw
Fpecmb	16472	2- NNJ	2- J0N	220- 6	2- 4SS	2M14	dDw
HsonPCcmb	16S71	Jh020	62h16	61h62	61J- J	2M06	dDw
HsonPCcmb	16S72	- S22N	- S- 02	2h4Jh	- SS2S	1M0-	dDw
y nPb cmb	16J71	h0- 2JN1	h0N12S1	hh- J062	hN16J1J	1N8N	dDw
y nPb cmb	16J72	4- - - NN-	- NhS6J6	4- SJ4- 0	41066Jh	JM14	dDw
tCocmb	11J71	0- 16- 0N	02S- 6- -	01NNS60	02- 6S26	SM10	dDw
tCocmb	11J72	1S2N- S4	h2641N	1S16J00	hhS4- -	JM0-	dDw
tpnC	J472	- 12- NJJ	- 166N60	- 1Sh106	- 1- - 2hh	SM16	dDw
tpnC	J672	J0026- 26	J606NJ0-	J6122S- 2	J6N02- 11	1M12	dDw
tpnC	J072	14h66h2	1404004	14- - 4J0	146N- S0	2M1h	dDw
KpEDTnC	N- 71	- - h	- 21	- 42	- - 4	- Mh	dDw
Lr so	2S671	4N0604	4Nh004	4h1h4-	4Nh0h0	SM44	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	4S0J2J	41Sh- 6	411S1N	4ShN26	SM4h	dDw
Lr so	2SN71	1h2NJ01	1h- S266	1h22J12	1h20116	SM21	dDw
LdTGmb	671	2J2hh- J	2JNSh6J	2J66SJ6	2JJNhN6	1N8-	dDw
9 sgOr wcmb	2472	N4SS6J	N4SS- h	N14J01	N- 1JJN	1M00	dDw
9 sOgsOr wr	JJ72	N4NJJ1	N46N4h	N- 0NhJ	N444- 2	SM6N	dDw
9 nPEeor Omb	h471	26h6S	20SS2	206N6	20216	1M1S	dDw
9 nPEeor Omb	hJ71	646S	Jh1S	Jh06	611J	4M11	dDw
9 nPEeor Omb	h671	1S1S4	1S246	1SJ01	1S- S0	2M12	dDw
9 nPEeor Omb	h071	- NSh	- 0S1	- 460	- 6Jh	4M00	dDw
9 nPEeor Omb	hN71	h4J-	h62h	hJ4J	hJ42	SM12	dDw
u r noEb omb	1JS71	11N2Jh	11N2J0	11N4hh	11N- - N	SM12	dDw
u r noEb omb	1JS72	- 0J- -	- 0N- 4	- 0242	- 0J- 6	SM0h	dDw
u dkr P	6S72	2Jh04	2641N	2J600	26S2-	1M4-	dDw
8 GhwDGhpmw	- 172	N444	N- N6	0h61	N264	- M1h	dDw
8 nTswwcmb	- h72	4- 4201	4- 06S4	424SS-	4- 1hJh	1M64	dDw
. Ghocmb	1S- 71	0112204	02- 0406	0- JN60-	02- 6141	1M0S	dDw
. Ghocmb	1S- 72	- - 0J- N1	- S4J1- N	- - hS- N1	- 20S- SS	JM10	dDw
I dsCocmb	4J71	40442h4	40S0- N2	40h6J4J	404h4S0	SM14	dDw
I dsCocmb	4J72	1J0- 40	142N- -	1J4J6h	1J1JN-	JN8N	dDw
I r P Comb	N271	1N0	2SJ	221	2SJ	NM2J	dDw
I r P Comb	0072	120	1JS	140	141	NM14	dDw
I r P Comb	0N72	h6	114	h4	1S1	1SM10	dDw
I dPdnC	2N71	140hNh1-	1JS- N600	1464- 24S	14N26h4-	1M4	dDw
I dPr p	1S071	2N10	20Sh	2NSS	200J	2M1S	dDw
I dPr p	1Sh71	2NN4	202J	2NN4	2N- 1	- M4-	dDw
I nocmb	2- 72	6hJS0	6h060	6NS2J	6h1SS	1M6	dDw
I TpmCTcmb	N671	2h4J- J	2h2JJ4	2h4h16	2h4SS2	SM4-	dDw
I TpmCTcmb	NN71	26N0N61	26N464S	26h66- N	26Nh01-	SM4-	dDw
I mPmp	- 471	- 2NSNh	- 22600	- 21NhJ	- 2422S	1N84	dDw
Ar pecmb	1Jh71	hN001- J	1S4ShJJh	hN- NS24	1SS41J0-	- M1N	dDw
Ar pecmb	1Jh72	42hN260	- N0- h6h	4240N46	414SS20	JN0S	dDw
AGsPbmb	2S- 71	2J2J	21N4	202J	240N	11N86	dDw
AGsPbmb	2SJ71	Jh00	JN4-	62- J	6S1N	- M1	dDw
AdC	11N71	h12N	hS- 0	hSS-	hSJ6	SM02	dDw
AdSCcmb	4071	hh6- N	1S1h- 0	1S1hJ4	1S1106	1M2	dDw
RpsCcmb	2- N71	004S-	0h0N4	NS2S-	0h1- S	1M11	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0S4N-	01S0J	01S4J	0SN6N	SM40	dDw
YTTr peomb	10271	16420	1JN1N	16620	162h1	2Mlh	dDw
YTTr peomb	10272	0J6h	NSSN	0J6-	001-	- M1	dDw
YTTr peomb	10671	11440	11N14	116Nh	116JS	1M0S	dDw
YTTr peomb	10672	16NJS	1Jh1S	16- hh	16- N6	2MN0	dDw
YTTpomb	Nh71	1- 0JNN66	141- 6441	1- N01S1h	1- h221SN	1Mlh	dDw
YTTpomb	Nh72	1J20- JS	1- 2SJ- 4	1J- 40h2	146SNh2	NM2	dDw
ZdCd	6672	h20NN	hShh0	hShS-	h1J62	1M16	dDw
ZqpdnComb	hS71	6- 211	6J- 2h	6Jh- h	64N26	2M21	dDw
ZqpdnComb	h171	14hJN	14NJN	1J142	14hN6	SM16	dDw

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmple ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmple ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFile Nsme :	O- 6AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARuminium	2302	1- 1J24	1- - 239	1- - 714	1- 2J32	O.69	cpw
Antimony	12101	9- -	1O27	J37	947	J.O1	cpw
Arwenic	3702	92J	J76	J31	JJ7	4.29	cpw
Bsrium	1- 701	96O91	992- 9	9J763	93966	1.69	cpw
Bsrium	1- 301	131- 1-	133112	13JO4J	137491	2.OJ	cpw
BeryRium	901	76O	71O	61O	76O	J.9-	cpw
Biwmuth	2O901	69- 17- 7	3O7JJ29	6336- 31	6922247	2.O4	cpw
Biwmuth	2O902	- 23O19J	- 27446J	- O92244	- 2O76- 3	- .O3	cpw
Bromine	J101	74O1	719-	4J1J	71- 3	7.36	cpw
Csdmium	1OJ01	6-	46	7O	7-	16.44	cpw
Csdmium	1O601	- J42	4142	- 336	- 92O	4.9J	cpw
Csdmium	11101	J- 2	92J	922	J94	6.OO	cpw
CsRium	4- 01	631JJ	6J- 31	6J212	63924	O.94	cpw
CsRium	4401	1122J49	11- 7391	1144J9-	11- 4711	O.9J	cpw
Csrbon	1201	- 196J12	- 297J77	- 263239	- 27- - 16	1.73	cpw
Csrbon	1202	4O177	412- 4	41127	4OJ- J	1.47	cpw
ChRorine	- 701	J1- 22J3	J269217	J4- O7O1	J233- - 4	1.JO	cpw
ChRorine	- 702	6172-	61- 3-	61131	61- 76	O.29	cpw
Chromium	7202	J946	J39-	J6- 9	J39-	1.34	cpw
CobsRt	7902	1O771	1O714	1O891	1O619	1.42	cpw
Copper	6- 02	- 367-	- JO3J	- 33- -	- 3J21	O.6O	cpw
Dywprowium	17601	14266	149OO	14191	1447-	2.3O	cpw
Dywprowium	17602	6O37	6O71	6- 42	6176	2.62	cpw
Erbium	16401	1OJ31	117O7	11- 43	11241	2.9-	cpw
Erbium	16402	4964	4J11	7O44	494O	2.4O	cpw
GsdoRnium	16O01	1- 1J2	129O3	1- 1J2	1- O9O	1.21	cpw
GsdoRnium	16O02	66O7	62- 2	632J	6722	- .93	cpw
HoRnium	16701	996- 3O3	9911O13	9J- 1O69	99O19- 1	O.63	cpw
HoRnium	16702	424J343	414J446	4O13- 16	41- J13O	2.JO	cpw
Indium	11701	3- 79- - O	31JO227	31O321J	3217791	1.JO	cpw
Indium	11702	1O1O9- 3	1OO- 4OJ	9771- 9	9J9J2J	- .O6	cpw
Iron	7402	62- 6- J	612472	62762J	62O73-	1.14	cpw
Iron	7602	119379- 3	11964J1J	11J9- 936	1194491O	O.- 3	cpw
Iron	7302	291127	2J2311	2J3J11	2J3216	1.4J	cpw
Krypton	J- 01	269	263	2J9	237	4.- 4	cpw
Lesd	2O601	9912O	1O779-	1O43J3	1O- 163	- .42	cpw

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRition Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	J2JO3	J6- O-	J63- 9	J72J-	2.7-	cpw
Lesd	2OJ01	- 9O7J4	41O4J7	4O7616	4O222J	2.7J	cpw
Lithium	601	27J37O3	261J2J6	274J11O	27J46- 7	1.- 6	cpw
Msgnewium	24O2	13237O	13- 277	13JO46	1346J4	1.63	cpw
Msngsnewe	77O2	13979J	13J47J	133- 1O	13J476	O.64	cpw
MoRybdenum	9401	7926	7JO1	73O1	7J1O	1.94	cpw
MoRybdenum	9701	1163	1- - -	1227	1242	6.J1	cpw
MoRybdenum	9601	22OO	2OOO	21- 4	2111	4.J2	cpw
MoRybdenum	9301	JOO	97O	J42	J64	J.96	cpw
MoRybdenum	9J01	2O37	2O42	2163	2O97	- .O9	cpw
Neodymium	17O01	24O49	24J73	24J2-	24736	1.J6	cpw
Neodymium	17O02	3392	3946	37O2	3343	2.91	cpw
NickeP	6O02	72JJ	77OJ	7721	74- 9	2.41	cpw
8howphoruw	- 102	2OOO	19OO	21- 4	2O11	7.J2	cpw
8otswwium	- 902	1O1J41	9664J	1O1477	999J1	2.J9	cpw
Rhodium	1O- 01	3- J3- 36	3166J- 9	3174O- 3	32- 6OJ4	1.J1	cpw
Rhodium	1O- 02	- 2962J6	- - O3- 4J	- 1O26- 7	- 2- 742-	- .76	cpw
Scsndium	4701	4971J27	4643113	43O4112	43636J7	- .4O	cpw
Scsndium	4702	171971	17- O96	1446O4	149JJ4	- .O3	cpw
SeRenium	J201	- J	2J	27	- O	22.O7	cpw
SeRenium	3302	13	23	2O	21	24.12	cpw
SeRenium	3JO2	29	- 9	47	- J	21.46	cpw
SiRcon	2J01	- 27OJ47	- 1J939O	- 27- 731	- 2- 14O2	1.12	cpw
SiRver	1O301	77J	6J-	613	619	1O.1O	cpw
SiRver	1O901	627	77J	47J	743	17.- -	cpw
Sodium	2- 02	- 3- - 2	- 792J	- 37O3	- 6922	2.- 4	cpw
Strontium	J601	62491	62724	61993	62- - 3	O.43	cpw
Strontium	JJ01	724919	7- 7961	719319	726J66	1.73	cpw
SuRfur	- 401	29OO3O	292J67	2J62J3	2J9341	1.14	cpw
Terbium	1790 1	1O- 7699-	1O13322J	1OO3O791	1O2O16O4	1.42	cpw
Terbium	1790 2	41244J7	41O2J61	- 9J1674	4O69663	1.J9	cpw
ThsRium	2O- 01	1O42	1OOO	9OO	9J1	3.42	cpw
ThsRium	2O701	2427	2237	2413	2- 3-	- .77	cpw
Tin	11J01	2337	2363	2J63	2JO-	1.9J	cpw
Titsnium	4301	21713	216OO	22471	21J76	2.- 3	cpw
Ursnium	2- J01	17633	16169	1766O	17J- 7	1.J-	cpw

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	71O2	14394	143- 1	1494J	14J24	O.37	cpw
Ytterbium	13201	- O92	- 4- 4	- 2J4	- 23O	7.24	cpw
Ytterbium	13202	137O	1997	17J-	1336	11.64	cpw
Ytterbium	13601	- 4- 4	- 763	- 379	- 7J3	4.76	cpw
Ytterbium	13602	1132J	12OOO	1147O	11326	2.- 7	cpw
Yttrium	J901	1- 411424	1- O61694	12JJO417	1- 113J44	2.O6	cpw
Yttrium	J902	1- 46917	14O93J9	12J73O3	1- 4343O	4.6O	cpw
Zinc	6602	19- - O	1J9O9	1977O	1926-	1.69	cpw
Zirconium	9O01	1- 2O3	1- 4O3	1- 6O3	1- 4O3	1.49	cpw
Zirconium	9101	2342	- 137	- - 13	- O3J	9.3-	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	68264S	6024Sy	606018	6002y4	SU06	ql s
c n&Amonh	12171	1S818y	11SS6S	1S60E1	1S8- 4y	1Uy1	ql s
c rsenAq	0y72	y62-	y482	yy- 6	yy40	1U28	ql s
BarAum	1- y71	EE6S66	1S- 4S24	EE22y-	1SS0448	2U2E	ql s
BarAum	1- 071	18y4- 01	1804SSy	186- 82-	1864S66	SUy-	ql s
BerhlIAum	E71	106yy	1812S	10E- y	10ES-	1U1	ql s
BAsmu&G	2SE71	6882604	yy6yyS4	68E11y6	6446444	11U8-	ql s
BAsmu&G	2SE72	- - 6y641	- - 14214	- 268266	- - 16S4S	1U40	ql s
BromAne	8171	016S	0E11	8SS-	06E1	6US1	ql s
RaOmAum	1S871	116-	1142	1101	11y8	1UyS	ql s
RaOmAum	1S671	y818	4884	y0y1	y48y	EUyS	ql s
RaOmAum	11171	1y848	16y2y	1y86y	16S0E	2U4S	ql s
RalqAum	4- 71	- 42S02	- y1842	- 4626-	- 46026	1U41	ql s
RalqAum	4471	y88S4- 1	yE1012y	y0- 8- 22	y84y2E2	1U62	ql s
Rarbon	1271	yEy40- 1	618y000	61- 1- 0y	6SES628	1UE8	ql s
Rarbon	1272	06084	084SS	001Ey	0046S	1US8	ql s
RGlorAne	- y71	101620y6	216- E844	24S160S0	2SE- E06E	16U62	ql s
RGlorAne	- y72	2SSESy	2SE- y6	21- 0S1	2S0E80	- U1-	ql s
RGromAum	y272	1S0y04	1S066y	1S800S	1S8SS-	SU62	ql s
Robal&	yE72	- 6411E	- 62S66	- 662EE	- 64161	SUy8	ql s
RoI I er	6- 72	- 1- 611	- SES02	- 1188S	- 11y21	SU04	ql s
t hsI rosAum	1y671	01y06	04yE1	0- SyE	0- S0y	2US6	ql s
t hsI rosAum	1y672	- 1- 00	- S6y8	- S261	- S06y	1U84	ql s
. rbAum	16471	y00yE	yE20y	y6864	y0E66	2U1S	ql s
. rbAum	16472	2462-	2426E	24- EE	244- S	SU0-	ql s
HaOolAnAum	16S71	66104	66104	64- 22	6yyy0	1U6-	ql s
HaOolAnAum	16S72	- 12E4	- 124S	- SEE-	- 110y	SUy1	ql s
9 olmAum	16y71	EE26646	0811- 8y	E8281y0	E18802E	12UEE	ql s
9 olmAum	16y72	4y2yE80	4- 44SE0	4- 1y- E-	4- Ey1yE	2U6S	ql s
DnOAum	11y71	0- - E4yE	y6yE622	01y1S66	6016016	1- U0S	ql s
DnOAum	11y72	1S4- 204	1S21644	1S18S4S	1S206y-	1U-	ql s
Don	y472	- 284yyy	- - 2100-	- 26S864	- 28ES64	SUE-	ql s
Don	y672	y8801211	6S120808	yE- EEy6y	yE466218	1US6	ql s
Don	y072	1ySS62E	1y2S- y2	1y- 6S41	1y1ESS0	1U10	ql s
Krhl &on	8- 71	- 41	- 6S	- 21	- 41	yU6E	ql s
LeaO	2S671	y- 6- 0S	y40y2E	y- yyy6	y- E818	1U24	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	440S- 6	4y8411	44E8E6	4y1081	1U1	ql s
LeaO	2S871	211S1y2	214yEEy	21SS4- 8	2118862	1U1-	ql s
LA&GAum	671	26- ySy2	21104- 8	26y- 6E0	246802E	12U-	ql s
5 agnesAum	2472	868Ey0	80yy- 8	8y1S48	86y181	1U46	ql s
5 anganese	yy72	E60482	Ey4680	E46401	Ey621-	1U11	ql s
5 olhbOenum	E471	26668	20100	20080	20211	2US6	ql s
5 olhbOenum	Ey71	y818	61S2	y618	y846	4U16	ql s
5 olhbOenum	E671	1S412	EEE6	E8Ey	1S1S1	2U01	ql s
5 olhbOenum	E071	- - y1	- yyE	- - SS	- 4S-	4US-	ql s
5 olhbOenum	E871	E10S	E12S	8608	8E8E	- US1	ql s
NeoChmAum	1yS71	1241yy	126E0S	1212- S	12411E	2U1	ql s
NeoChmAum	1yS72	- 8- 62	- 0- 8E	- 04EE	- 00yS	1U41	ql s
NAqkel	6S72	116S08	11y4y8	1144SE	11y- 1y	SU0-	ql s
PGosI Gorus	- 172	802S	86S-	80y-	86E2	SUE1	ql s
Po&assAum	- E72	4y6128	4y- 0E0	4y40- y	4y4880	SU26	ql s
CGoOAum	1S- 71	01- 4- y4	y662006	6E00S00	6yE14S2	12U26	ql s
CGoOAum	1S- 72	- 44ES8y	- - 2EE61	- - 41006	- - 0- 6S0	1UEy	ql s
pqanOAum	4y71	4ES0882	- 0- 142-	4011E02	44yS426	14U16	ql s
pqanOAum	4y72	16S1E2	1yE- S6	1y4S80	1y0862	2USE	ql s
pelenAum	8271	226E	2- 2y	22y6	228-	1U6S	ql s
pelenAum	0072	2S0	10-	24S	2S0	16U1-	ql s
pelenAum	0872	- 1-	- - S	- - S	- 24	- US-	ql s
pAAqon	2871	16806E- S	162Ey8yy	16- 2112S	164E0E68	1UEE	ql s
pAver	1S071	64ES-	602EE	661SE	661S4	1U81	ql s
pAver	1SE71	61y- S	6240y	6104S	61E1y	SU8S	ql s
poOAum	2- 72	81662	81- 20	8S4- E	81142	SU08	ql s
p&ona&um	8671	- SSESE	- 2S04-	- S0E84	- SE80E	- U24	ql s
p&ona&um	8871	20- 4y86	28ES6S1	28- S10S	28184y2	2U0E	ql s
pulfur	- 471	- 222SS	- 2y88S	- 1E8Sy	- 2262E	SUEy	ql s
i erbAum	1yE71	1S2- 10- 4	0816S- 6	1S2E1S6-	E446208	14UEy	ql s
i erbAum	1yE72	42S00- y	4212yES	42800yy	42- 6S20	1US6	ql s
i GallAum	2S- 71	y8y42	yE822	y80SS	yES21	1U18	ql s
i GallAum	2Sy71	14S1E6	1418- 1	141- 60	1411- 1	SU6S	ql s
i An	11871	1S0S4	11- E0	1SE6-	11S21	- U10	ql s
i A&anAum	4071	1SS0- 1	1SSSy0	E82y-	EE68S	1U2E	ql s
MranAum	2- 871	82- S8	8- 416	8224E	826y8	SU8S	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	2S- - 44	2S- 0yE	2S20E2	2S- 2E8	SU24	ql s
Y&erbAum	10271	10262	102Ey	10E88	10y1y	2U4	ql s
Y&erbAum	10272	84y-	84y8	0840	82y-	4U26	ql s
Y&erbAum	10671	12848	1241y	12y0-	12612	1U04	ql s
Y&erbAum	10672	168Sy	168Sy	16S- 2	16y48	2U0S	ql s
Y&&Aum	8E71	1- EE04E6	11SES2- E	1- 6E- 111	12E26E4E	12U6	ql s
Y&&Aum	8E72	1yy- 28-	1y1- 4S8	140E0E8	1y1y4E6	2U4-	ql s
ZAnq	6672	12E2y1	1204EE	1262y0	12066E	1U18	ql s
ZAqonAum	ES71	6- E- 1	60y48	662y8	6yE12	2U08	ql s
ZAqonAum	E171	14y0y	14042	14y2y	14614	SU08	ql s

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	2072	06N6Sh	0h0JS4	06Nhh0	06hS22	SMM1	dDw
qCTb nCE	12171	2hN4	26N4	2610	262N	1M4	dDw
qpwr Ccl	0h72	hSh1	4JJ0	4NJ-	4JN1	1M61	dDw
Bspcmb	1- h71	64- SJh	6- SS- -	624N62	6- 266-	1M4J	dDw
Bspcmb	1- 071	11hSJ10	111J- SS	111N0S-	112J64S	1M0-	dDw
Br pEPmb	J71	2Jh1	2J02	2J- 1	2Jh2	SM0S	dDw
Bcwb mTG	2SJ71	hJS114-	6Jh24N0	6N6N2hS	6h0- J6S	NMMU	dDw
Bcwb mTG	2SJ72	- - 1h- h0	- 0- N422	- - 6SNh1	- 401h4-	6M0J	dDw
Bpmb cOr	N171	0- J4	061J	NS2N	06NS	4M1N	dDw
5 sob cmb	1SN71	101	1N-	21-	1NJ	11M2	dDw
5 sob cmb	1S671	- hSJ	44N4	41N4	4ShJ	12M1	dDw
5 sob cmb	11171	2- S2	21- 0	2S0N	2102	hMh	dDw
5 sPlcmb	4- 71	- 40J- -	- 4622N	- 42NN0	- 4h6N-	SM04	dDw
5 sPlcmb	4471	hJ220NS	hNN412h	h04- 660	hNhS1J1	1M61	dDw
5 spenC	1271	hS00J62	h26- 1Jh	h- 0S20h	h2- 0144	2MM2	dDw
5 spenC	1272	6h- 12	64442	66J0S	6hh0h	1M6	dDw
5 GPmpcOr	- h71	21S0N- h6	2h26JhN1	202J- h06	24h40101	12M1	dDw
5 GPmpcOr	- h72	2102NN	226S21	22NNSh	224S- N	2M6N	dDw
5 Gpmb cmb	h272	h20- 0	h2N44	h21- 1	h2h01	SM0-	dDw
5 nesPT	hJ72	01260	0S1S2	02SJh	011hh	1M41	dDw
5 nDDr p	6- 72	164h1h	1644NN	166- N0	16h1- S	SM66	dDw
&EwDpnwcmb	1h671	0J6NS	0NJ24	00N- 6	0NN14	1M1N	dDw
&EwDpnwcmb	1h672	- - 6SJ	- - 4h2	- - JJS	- - 6N4	SMM2	dDw
Fpecmb	16471	6Nh61	0S16J	6061h	6N0N1	1MMN	dDw
Fpecmb	16472	20042	20- 6N	20612	20h04	SM6J	dDw
HsonPCcmb	16S71	02h2-	0- h62	0- S42	0- S42	SM01	dDw
HsonPCcmb	16S72	- 4JNJ	- 46N2	- 446N	- 401-	SM06	dDw
y nPb cmb	16h71	Nh6N0J-	J00h64N	J04S1J6	J- 61h46	0M4	dDw
y nPb cmb	16h72	4- 262J1	4NJ160S	4- 10SJ2	4h116N4	0M2J	dDw
tCocmb	11h71	6S6J4S-	0S012S0	02S422h	60N1612	JM1h	dDw
tCocmb	11h72	1S1- S1h	1124N02	1S2Nhh0	1Shh4N1	hM04	dDw
tpnC	h472	4S024JN	4SN211J	4Sh6SJS	4S0S2- 6	SM12	dDw
tpnC	h672	02N00S1-	0- 6N1S41	0- 21N400	0- 2hNN4-	SM1h	dDw
tpnC	h072	1J2SJSJ	1Nh1026	1NN06JJ	1NN600N	1MM-	dDw
KpEDTnC	N- 71	- hS	- JS	- 4h	- 62	6MM2	dDw
Lr so	2S671	hS6S- -	hS0S46	4JJ6Nh	hS42hh	SM0J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:24:SJ	&sTsUdP usb r:	S- Nq. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	411226	41NJ4J	41400J	414JNh	SMl-	dDw
Lr so	2SN71	1JhNNN6	1JN- h- -	1Jh100N	1J640- 2	SMMh	dDw
LdTGmb	671	2- S- J0N	2h26211	262J0h2	24N6640	6M0J	dDw
9 sgOr wcmb	2472	JhJ1N1	J44N2-	J64S0N	Jh6S20	1M8h	dDw
9 sOgsOr wr	hh72	J4- 2- S	Jh2N2h	J2J2JJ	J410Nh	1M26	dDw
9 nPEeor Omb	J471	21J1N	2S44J	2106N	21- 0N	- M0N	dDw
9 nPEeor Omb	Jh71	62h2	h04-	hJ26	hJ04	4M1	dDw
9 nPEeor Omb	J671	J60J	J- - 0	J6h4	Jhh6	1MJ	dDw
9 nPEeor Omb	J071	41S1	- - 42	- 642	- 6Jh	1SM4	dDw
9 nPEeor Omb	JN71	JN2J	J40N	Jh0S	J626	1MMJ	dDw
ur noEb omb	1hS71	1- - 02N	1- 1- J1	1- 10SS	1- 220-	SM6	dDw
ur noEb omb	1hS72	4SSJ0	4SS16	4S0SJ	4S204	SM4	dDw
ucdkr P	6S72	- J1N4	- N0- 6	- NNNS	- NJ- -	SMMJ	dDw
8 GhwDGhpmw	- 172	0J11	00- 6	0NN6	0N44	1M21	dDw
8 nTswwcmb	- J72	- - 1J- 4	- 2NNh4	- - 14NS	- - S0h6	SMMS	dDw
. Ghocmb	1S- 71	6Sh2J- S	6NhhNN1	01- - h1h	66NS00h	NM4S	dDw
. Ghocmb	1S- 72	- - N10h2	- 66N- 2h	- 41- JSh	- 4N0JJ4	4MMS	dDw
I dsCocmb	4h71	4SN- S4N	40- NS- 4	400020h	4h- 20N6	NM6S	dDw
I dsCocmb	4h72	1h4J1J	10- 241	16S22N	1620J6	hM0J	dDw
I r PCcmb	N271	264	10h	212	210	2SM12	dDw
I r PCcmb	0072	14-	16-	J-	1- -	20M8h	dDw
I r PCcmb	0N72	1- 4	1- 1	114	126	NM14	dDw
I dPdnC	2N71	10602066	106NJ4N-	10N64h00	1004220h	SM0S	dDw
I dPr p	1S071	- S42	- 4h1	- ShS	- 1N1	0M4	dDw
I dPr p	1SJ71	- S60	2N2h	- 1N4	- S2h	6M84	dDw
I nocmb	2- 72	1144Sh	1121- N	114SN6	11- h4-	1M8N	dDw
I TpnCTcmb	N671	- - 6464	- - 1S41	- - - ShN	- - - h21	SMM2	dDw
I TpnCTcmb	NN71	2Jh- 06S	- S12J0h	2J0J006	2JN210S	1M8S	dDw
I mPmp	- 471	2J1060	2J4- 20	2J4J- 1	2J- 60h	SM10	dDw
Ar pecmb	1hJ71	Nh- 20hN	J01SNJ0	JJ6h- - 2	J4S2JJh	NM1-	dDw
Ar pecmb	1hJ72	410Nh- N	461h00-	426N- h0	4- h422-	hMS	dDw
AGsPbmb	2S- 71	- SSS	2642	- SSJ	2NN4	0M26	dDw
AGsPbmb	2Sh71	6J00	0S44	02- 6	0SNh	1MMJ	dDw
AdC	11N71	Nh- 6	Nh0S	Nh0S	NhhN	SM22	dDw
AdSCcmb	4071	0S6hS	0SJh1	6J0h-	0S4h1	SMMN	dDw
RpsCcmb	2- N71	JJ2N0	1S10S6	1S11h2	1SS01h	1M26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h172	NJ- 1S	JSSS1	NJ0S-	NJ601	SMJ	dDw
YTTr pe omb	10271	21ShJ	21h- h	21S60	2122S	1M2N	dDw
YTTr pe omb	10272	1S6- 2	1SS4-	JJ26	1S2SS	- M01	dDw
YTTr pe omb	10671	14N2h	14J42	1hSS1	14J2-	SM0S	dDw
YTTr pe omb	10672	1020-	1JS2S	106S1	10J64	hM10	dDw
YTTpomb	NJ71	121- 2S26	1- N42640	1- 0104- 0	1- 2- S0S4	0M21	dDw
YTTpomb	NJ72	1h1N6J0	16S- 0Nh	1hhN644	1h6S- 06	2M0-	dDw
ZdCd	6672	N44NS	N2J44	N24S1	N- 20h	1MS	dDw
ZqpdnComb	JS71	4JJJJ	hS1N-	4J6Sh	4JJ2J	SMJ	dDw
ZqpdnComb	J171	11hJ0	11S1-	1S61-	11S04	4M40	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMS0	&8mTmC:MwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMv8 :u wb r :J	S- . qF UMR0

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cOcmb	2072	604 24	660- 4-	66 22.	66. S- 2	SR0-	dDl
qCTb nCE	12171	4 06	4- S1	4 26	446a	- R2a	dDl
qpl r Ccl	0 72	6 . 4	6- 20	64SS	644S	2R14	dDl
Bwpcmb	1- 71	4aS S4	4. 244	4a4020	4a6a2	1R 6	dDl
Bwpcmb	1- 071	a - 1Sa	a06. 6S	a6- S66	a64- 0a	1R .	dDl
Br pE8cmb	. 71	- Sa6	- 16	- 1S.	- 12S	1R S	dDl
Bdl b mTG	2S. 71	600 . S2	6. 10111	6. 616 -	6aa4aa.	1R41	dDl
Bdl b mTG	2S. 72	- 4 21. -	- - 62664	- - 4- a2S	- - a6226	1R01	dDl
Bpmb cOr	a171	0120	0620	0 20	0420	- R 6	dDl
9 wob cmb	1Sa71	22	242	22.	2- 2	- R04	dDl
9 wob cmb	1S671	40S.	46 .	42. 2	4 4	RSS	dDl
9 wob cmb	11171	26	2 1a	2 1.	2 64	- RSa	dDl
9 w8lcmb	4- 71	01. 42a	010. . .	01 1- 1	010 1.	SR S	dDl
9 w8lcmb	4471	121a . S4	11. 0a 16	1100 - - S	11. 0. . 10	1R01	dDl
9 wpenC	1271	610a611	6- 4- 021	64a. . a	6- - 04- S	2R46	dDl
9 wpenC	1272	0aSa-	aSa 6	0aS. 1	0. S1S	2RS2	dDl
9 G8hpcOr	- 71	21 1SSS.	24. 06 12	204. S. .	246 . 102	12R1a	dDl
9 G8hpcOr	- 72	21 11	22S62S	22622-	22S0a4	2R4-	dDl
9 Gpmb cmb	272	6a 6	6204	6. a-	60S4	SR60	dDl
9 new8T	. 72	62- a6	6102-	612. 4	61aS1	SRa.	dDl
9 nDDr p	6- 72	14S 0.	14Sa1S	1- . . .	14S4 S	SR 1	dDl
&El Dpnl cmb	1 671	a- 62.	a- 0a	a26- .	a- 2a2	SR60	dDl
&El Dpnl cmb	1 672	- 4 S	- S- 6	- S- -	- 10-	SR6a	dDl
Upecmb	16471	66S2-	60- 46	66266	66 4	1RS6	dDl
Upecmb	16472	26a60	201Sa	26024	26. SS	SR02	dDl
Hwon8Ccmb	16S71	01241	0- 2a6	0- 2.	026a	1R0-	dDl
Hwon8Ccmb	16S72	- - 1-	- 4 S	- S2-	- 262	SR62	dDl
h n8b cmb	16 71	. a0- . 4	. a. - 41a	. . 1 2 S	. a. 4Sa0	SR21	dDl
h n8b cmb	16 72	441- 0 4	4412S	4- - . 200	4- aa- 62	SR 0	dDl
tCocmb	11 71	6. a a21	0SSS. 44	6. a- a00	6. . S214	SR1-	dDl
tCocmb	11 72	1S26S2.	1S2 4. 0	1S20- 1S	1S2620.	SRS.	dDl
tpnC	472	- 2 - 2	- 2a62- 6	- 2. 4202	- 20a611	SR6-	dDl
tpnC	672	. SS. 1. 2	. 44Sa44	. SSaa 4	. 1 2. 6-	SR42	dDl
tpnC	072	1 - - . 14	1 40 a6	14. 014	1 2 0- a	1R06	dDl
KpEDTnC	a- 71	- 20	- 0	- 2	- 2	6R06	dDl
Lr wo	2S671	- aSS20	- . 1Sa0	- aa S-	- a6 - .	1R S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4467S	tCl Tpmb Cr Tuwb r :J	Na
9 8r CTl wb D8 :t&:J	y h SMS0	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:14J20JSa	&wTwMv8 :uwb r :J	S- . qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
Lr wo	2S071	- 16466	- 22- S6	- 1. 41.	- 1. - . 0	SR 1	dDl
Lr wo	2Sa71	14a. - 0	1 140S2	1 24a 1	1 S. 6. 0	1R2S	dDl
LdTGmb	671	2 44261	2611aS0	2 00. 61	2 0aSS.	1R 1	dDl
y wgCr l cmb	2472	16S 042	1 0- 061	1 aa6-	1 0. 4	1R 2	dDl
y wCgwCr l r	72	1a20- 16	10. 2 S6	1a 6 - 6	1a2 4 -	1R06	dDl
y n8Eeor Cmb	. 471	1a4S4	1a022	1a0aa	1a6- a	1R1S	dDl
y n8Eeor Cmb	. 71	1- - 4S	1- 4. a	14S16	1- 61a	2R .	dDl
y n8Eeor Cmb	. 671	1606S	1626a	1611a	16- a2	2R8S	dDl
y n8Eeor Cmb	. 071	a0 -	a. a0	a261	a660	4R20	dDl
y n8Eeor Cmb	. a71	21- a4	21242	2216S	21 .	2R2.	dDl
u r noEb cmb	1 S71	1- . - - 0	14 S-	14- 2. .	142 0	2R8S	dDl
u r noEb cmb	1 S72	44- 60	442aS	441. 6	442a1	SR1.	dDl
u cdkr 8	6S72	- S1-	- 1 -	- 400.	- 4. a2	SR 4	dDl
NGhl DGhpml	- 172	. - 0a	. 1- 6	. - 0S	. 2.	1R4a	dDl
NnTwl l cmb	- . 72	4a- 4. 2	400. Sa	4. 26- 2	4a4600	1R -	dDl
F Ghocmb	1S- 71	012aaSa	0Sa1124	0Sa24S0	0S. 0446	SR a	dDl
F Ghocmb	1S- 72	- - aS 20	- 4- S6	- - - 6.	- - a. 062	1R22	dDl
l dwCocmb	4 71	46 106-	461 104	4 01- 16	46120 1	SRa0	dDl
l dwCocmb	4 72	1 6- 4	1 . S0.	1 66a.	1 0- 04	SR 4	dDl
l r 8 Cmb	a271	20	2 2	262	26-	4R2a	dDl
l r 8 Cmb	0072	16S	1. 0	10-	100	1SR 1	dDl
l r 8 Cmb	0a72	1- 6	122	12a	12.	R46	dDl
l 8dnC	2a71	1 0- 0620	1 a S4S	1 00664-	1 6. . 00S	SR64	dDl
l 8vr p	1S071	- 660	- 06	- 0 .	- 660	2R S	dDl
l 8vr p	1S. 71	- .	- 6 .	- 20	- 4. a	R6.	dDl
l nocmb	2- 72	1S- . 1a	1S24Sa	1S224a	1S2a a	SR S	dDl
l TpnCTcmb	a671	- - 040	- - - 000	- - 06a0	- - 0- 0	SR a	dDl
l TpnCTcmb	aa71	- S64a. 2	- SS- S4a	2. 22-	- SS0021	1Ra-	dDl
l m8mp	- 471	414S1	414. 0-	4164.	41 161	SR S	dDl
Ar pecmb	1 . 71	1SSSS 4	1S1S4S4	1SS2 6.	1SS4- 42a	SR 4	dDl
Ar pecmb	1 . 72	4- 416. a	420S04a	4- a66. .	4- - - S4a	1R	dDl
AGw8mb	2S- 71	2. 60	- S0	- 12	- S 6	2R6	dDl
AGw8mb	2S 71	0 S2	01. 4	0- 11	0- - 6	2R12	dDl
AdC	11a71	1S. 6	142-	1 6	1- 61	SR40	dDl
AdTwCmb	4071	11. . 41	11. 26S	12SSSa	11. 0- 6	SR	dDl
5 pwCmb	2- a71	1- 2. S	1- S4SS	1- 22.	1- 1aa2	1R8SS	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4467S	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SMS0	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J20JSa	&wTwMv8 :u wb r :J	S- . qF UMRb

NwpwbrTrp	ywl l	9NI 1	9NI 2	9NI -	9NI yrwC	9NI FI &	5CdT
VwOwocmb	172	a0S06	a6. a2	a6 4-	a6a60	SR-	dDI
YTTr pecmb	10271	2SS. .	1. S4a	2S2a-	1. a1S	- R6	dDI
YTTr pecmb	10272	1SSa0	. a- 2	. 406	. 0. a	- R1-	dDI
YTTr pecmb	10671	1- 0S0	144SS	144- -	141aS	2Ra.	dDI
YTTr pecmb	10672	10 1	104S1	10- - .	104- S	SR62	dDI
YTTpcmb	a. 71	14S2aS22	14S011.	1- 6S1. 46	1- . SS- aa	1Ra0	dDI
YTTpcmb	a. 72	1 24. - 6	1 2 66	1 0166	1 44aa.	1R1-	dDI
ZdCd	6672	1S. - 0.	1S. 0. .	11S4S	1S. a61	SR40	dDI
ZqpdnCcmb	. S71	2a6aS	2a - a	- SSa4	2. 1S1	2R4	dDI
ZqpdnCcmb	. 171	6aa	6a20	6 6S	60 0	2R0	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4- 800-	4- 6060	4- 18y1	4- y0h0	SU82	ql s
c n&AmonE	12171	41yh	4- 84	4y18	4- y4	4U16	ql s
c rsenAq	0y72	46S6	4422	428y	44- 8	- U6-	ql s
BarAum	1- y71	- 1- 00h	- 1yhS2	- S80h4	- 1282y	1U10	ql s
BarAum	1- 071	y6S4h6	yy4212	y4882h	yy4y12	1USy	ql s
BerEIAum	h71	22- 2	2- 22	2- 12	228h	2U16	ql s
BAsmu&G	2Sh71	6- h0- 42	0S860SS	600hS28	60y4- y0	yU11	ql s
BAsmu&G	2Sh72	- 28y612	- - 481h6	- - h2Sy4	- - 41hy4	1U6S	ql s
BromAne	8171	61S2	6y4-	6y68	64S4	4U1S	ql s
RaOmAum	1S871	188	2- 8	2- -	21h	12U64	ql s
RaOmAum	1S671	4160	4y18	4yh-	4426	yU1-	ql s
RaOmAum	11171	206y	20- 6	2yyh	2686	4U16	ql s
RalqAum	4- 71	681yhy	6824- 2	68yy6y	68- 1h8	SUJ1	ql s
RalqAum	4471	11- 2h2S4	11- 210S2	1188SySy	11y1S40S	2U08	ql s
Rarbon	1271	46yy420	48y42S4	481h- 4h	4006- 26	2U22	ql s
Rarbon	1272	6S- 16	y014y	6S6- y	yh- 6y	- U2y	ql s
RGlorAne	- y71	2S0414Sy	24- 008hS	2642- 624	2- 8406- h	12USS0	ql s
RGlorAne	- y72	2S406S	2116S4	211621	2Sh- 2h	1U8h	ql s
RGromAum	y272	- 6824	- 6060	- y00y	- 64yy	1U62	ql s
Robal&	yh72	- 6h14	- yy18	- y018	- 6SyS	2U1S	ql s
RolI er	6- 72	8yy- -	8yh- 2	8y4- y	8y6- -	SUJ1	ql s
t EsI rosAum	1y671	66616	68S82	60h4S	60y46	1U2S	ql s
t EsI rosAum	1y672	28620	286h1	286y1	286y6	SU11	ql s
. rbAum	16471	yyy0y	y4- 2S	yyS48	y4h81	1U1y	ql s
. rbAum	16472	22h2S	2264h	220- -	22060	SU61	ql s
HaOolAnAum	16S71	yh204	y861-	yh818	yh2- y	1USS2	ql s
HaOolAnAum	16S72	28404	28S- -	281- 6	28214	SU82	ql s
9 olmAum	16y71	h- 4hh88	h884yyy	h618266	h6106S-	2U08	ql s
9 olmAum	16y72	4200h88	4- 8- hS4	42h0161	4- 1h684	1UJ1	ql s
DnOAum	11y71	60S4h0S	0180- hh	0S16660	6h6h608	- Uy1	ql s
DnOAum	11y72	hhS6S2	1SShS2-	1S20201	1SS8h6y	1U82	ql s
Don	y472	2240Sy-	2- S01h4	224022h	22601yh	1Uy-	ql s
Don	y672	4S601620	4Sy- 8666	4S2S- 8hy	4S401- h6	SU6S	ql s
Don	y072	h0S8S8	h60y22	h640y2	h606h4	SUJ1	ql s
KrEI &on	8- 71	- 21	- - 0	- S6	- 22	4U86	ql s
LeaO	2S671	2- 411-	24S- S0	228- 24	2- 4248	2Uy6	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	1h4- 44	1h4186	1h22SS	1h- y00	SU62	ql s
LeaO	2S871	h1S4h8	h26- 00	h1S- 64	h1y046	1US1	ql s
LA&GAum	671	24S1hS6	2y8yS06	2y412h8	2ySh420	- U81	ql s
5 agnesAum	2472	14h- 6y-	1ySyy- S	148hy11	14h62- 2	SUy6	ql s
5 anganese	yy72	11122S4	11122Sh	1Sh0yS8	11S0- S0	SU00	ql s
5 olEbOenum	h471	16- 6S	16861	16- 4-	16y21	1U08	ql s
5 olEbOenum	hy71	14010	1y2Sh	14- 04	14060	2U84	ql s
5 olEbOenum	h671	16hh4	10- - 6	1016h	10160	1USS	ql s
5 olEbOenum	h071	h4y4	hh01	h20S	hy6y	- U8S	ql s
5 olEbOenum	h871	2- 42S	24- - 1	2- - 2h	2- 6h-	2U-4	ql s
NeoOEmAum	1yS71	1128yS	11644-	11421y	114yS-	1Uy8	ql s
NeoOEmAum	1yS72	- 6SS2	- 6y1-	- y48S	- yhh8	1U4-	ql s
NAqkel	6S72	22y28	21h64	21hyS	22140	1U4h	ql s
PGosI Gorus	- 172	68h4	6226	6820	664h	yUy-	ql s
Po&assAum	- h72	2h682h	2h186h	2hShyh	2h- 21h	1US8	ql s
CGoOAum	1S- 71	66y6SS-	0- S- ySh	6h48648	6h6h- 86	4U6y	ql s
CGoOAum	1S- 72	- 2- 21S-	- 2612h8	- - - hS6-	- 200488	1U6h	ql s
pqanOAum	4y71	4- 162- y	401y20S	40y2111	4yh4y- h	yU26	ql s
pqanOAum	4y72	1yS26S	1y- 041	1y- S40	1y2- 4h	1U21	ql s
pelenAum	8271	212	220	1h6	212	0U-0	ql s
pelenAum	0072	1SS	12S	11-	111	hU10	ql s
pelenAum	0872	1- S	11-	1S6	116	1SU61	ql s
pAAqon	2871	1S0688SS	11S2hSSy	11S46641	1Sh4814h	1U42	ql s
pAver	1S071	28yS	- 2yS	- 2yh	- 12S	0U48	ql s
pAver	1Sh71	- S2y	20yh	2h0y	2h2S	4U86	ql s
poOAum	2- 72	1S26y2	1S1h22	hhhy8	1S1y11	1U-0	ql s
p&ona&um	8671	2168h2	210y4y	211S14	21y1yS	1U60	ql s
p&ona&um	8871	1h01- 44	1h6hyhy	1h6- S62	1h68SSS	SU22	ql s
pulfur	- 471	- 4- h6y	- ySh60	- y10h6	- 48hSh	1U2-	ql s
i erbAum	1yh71	h2S0y06	1S2S1hS6	1SS2hh04	h81- 1y2	yU42	ql s
i erbAum	1yh72	4210SS6	42- 6222	4- 41h10	426yS48	1Uy8	ql s
i GallAum	2S- 71	22yS	2S42	1h42	2S08	0Uy0	ql s
i GallAum	2Sy71	4806	y0- y	y21S	y20-	8U21	ql s
i An	11871	h4S-	hS- 0	h02h	h- hS	- U6h	ql s
i A&anAum	4071	h0016	h8168	1SS00S	h888y	1U60	ql s
MranAum	2- 871	8y168	86142	8- 8- y	8yS48	1U-6	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
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RIAn&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	y- y46	y- y26	y- 620	y- y66	SU1S	ql s
Y&erbAum	10271	1601h	10S61	10S4y	16h42	1U14	ql s
Y&erbAum	10272	842S	8264	0h86	822-	2U60	ql s
Y&erbAum	10671	11422	122- h	12S- h	11hSS	- Uy8	ql s
Y&erbAum	10672	16100	16S00	16616	162hS	1U06	ql s
Y&&Aum	8h71	128- 12yy	1- 80- 1S0	1- y002y8	1- 4202S0	4U$S	ql s
Y&&Aum	8h72	14h1y14	1481661	1482242	148y1- h	SU0	ql s
ZAnq	6672	1Sy- 88	1S0y02	1S64h0	1S6486	1U$-	ql s
ZAqonAum	hS71	22S4-	220- 6	2266h	2248-	1U0S	ql s
ZAqonAum	h171	yS84	46yh	4h84	4hSh	4Uy-	ql s

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Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	682- 66	68S4h0	684h0S	68246h	SU S	ql s
c n&AmonE	12171	606S	026y	01h2	0S6S	- U00	ql s
c rsenAq	0h72	1S84-	1S884	1S081	1S8- 6	SU48	ql s
BarAum	1- h71	h1hh11	h2hhh4	h22y- S	h21- - 2	1USS	ql s
BarAum	1- 071	y2S02-	y146- 6	y2y4S8	y21h8y	SU81	ql s
BerEIAum	y71	- S80	2y40	- S82	- S- y	2U61	ql s
BAsmu&G	2Sy71	hy- 2208	6y21h80	0S- - 2S6	662yS24	yU14	ql s
BAsmu&G	2Sy72	- 20Sy40	- 202hS4	- 260222	- 20S224	SUS8	ql s
BromAne	8171	0S8h	04S2	0444	0- 1S	2U68	ql s
RaOmAum	1S871	260	246	- S8	204	11U6-	ql s
RaOmAum	1S671	- 006	4h06	4026	4- hy	11U02	ql s
RaOmAum	11171	- y2y	41S-	- 824	- yh2	- Uh6	ql s
RalqAum	4- 71	2h- 410	2h- 0- 1	2h404-	2h- y64	SU20	ql s
RalqAum	4471	428hSyh	42S0828	42y4ShS	4262- 24	1U11	ql s
Rarbon	1271	h446h60	h4y1622	h62y6- 0	hh226Sy	1U0-	ql s
Rarbon	1272	688- 6	0S- 61	60y82	6yS6S	1U04	ql s
RGlorAne	- h71	21y04- S0	2hyh4h68	208- hy- 8	2h2h4y- 8	11U8h	ql s
RGlorAne	- h72	224S22	22- 81S	2- 1hSh	226446	1Uy4	ql s
RGromAum	h272	- 0h4-	- 0282	- 6y04	- 0266	SU06	ql s
Robal&	hy72	- y6h8	4Sh68	- y- 64	- y864	1Uh0	ql s
RoI I er	6- 72	114h22	11- y0S	11402y	1144S0	SU-4	ql s
t EsI rosAum	1h671	804yh	86681	80y14	80- 6-	SU02	ql s
t EsI rosAum	1h672	- hh21	- h614	- 44y1	- h2Sy	1U00	ql s
. rbAum	16471	6h4S-	66- 10	6- 661	6h120	2USS0	ql s
. rbAum	16472	2h6y2	2h00h	2hy22	2h0y6	SU4h	ql s
HaOolAnAum	16S71	0- 680	0hSy6	0- 2yh	04S26	1U28	ql s
HaOolAnAum	16S72	- 4062	- h116	- 46- 2	- 48- 0	SU02	ql s
9 olmAum	16h71	8- 2- 14-	yyySSy0	yy1- 6S4	y4S8y48	1SUSS	ql s
9 olmAum	16h72	4220- 0h	4241488	426h02-	4244862	SU46	ql s
DnOAum	11h71	hyhy- 14	0S- S480	028482S	60h82S0	1SU41	ql s
DnOAum	11h72	y840hS	yy26- 8	yy0hh4	yy1640	SU6h	ql s
Don	h472	26S41yy	261h86y	2hyh- 1h	26Sh128	SU4S	ql s
Don	h672	40SS24- 0	46yy1h0-	4h66h88-	46hh- 2y8	1U6h	ql s
Don	h072	11S061-	1111208	11Sh64-	11S8108	SU26	ql s
KrEI &on	8- 71	- 2S	- hh	- 26	- - 4	hUhy	ql s
LeaO	2S671	1S- 0y4S	1Shh012	1S108h2	1S- 0168	1U8-	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	8h0SS6	8h28y-	86h- 8-	8h8420	SU04	ql s
LeaO	2S871	42hh01-	418264-	41826y0	42S0S10	1USS	ql s
LA&GAum	671	2- 2h18y	2hh0282	26y2S- S	2h248- -	0Uh	ql s
5 agnesAum	2472	040- 66	0- 0S20	026y46	0- 011-	1Uy	ql s
5 anganese	hh72	1S8h2Sh	1S0yS68	1S6yy62	1S08S08	SU01	ql s
5 olEbOenum	y471	10- - 6	10612	161h1	10S- -	4Uh6	ql s
5 olEbOenum	yh71	11Sy6	1S- - 0	1S4- 8	1S624	- U88	ql s
5 olEbOenum	y671	1- 4yy	126h6	120y8	12y84	- U40	ql s
5 olEbOenum	y071	616S	6y8h	64h2	6h- 2	6U41	ql s
5 olEbOenum	y871	1661S	10- 11	10411	10111	2Uhh	ql s
NeoOEmAum	1hS71	1h466-	1h182y	1h8- h8	1h4yhS	2U11	ql s
NeoOEmAum	1hS72	40444	46S66	464yS	46660	1Uh1	ql s
NAqkel	6S72	2164S	2146S	21- S-	21460	SU0y	ql s
PGosI Gorus	- 172	6- y-	664-	628h	644S	2U8h	ql s
Po&assAum	- y72	486S0y	486y- -	4yS0Sh	480yS6	SUhS	ql s
CGoOAum	1S- 71	hy6y60y	0SSS404	0- - S8S8	6066y80	1SU4y	ql s
CGoOAum	1S- 72	- 2S2h2-	- 2488S1	- 20y2hh	- 24- h26	1U1y	ql s
pqanOAum	4h71	- 8- 2206	46420yh	486- hSh	44461y2	12U21	ql s
pqanOAum	4h72	1h4hh6	1h26h2	1h- h2h	1h- h08	SU62	ql s
pelenAum	8271	1hh	1SS	1hh	1- 0	2- U2-	ql s
pelenAum	0072	16-	16-	1h-	16S	- U61	ql s
pelenAum	0872	111	y2	y0	1SS	yU8h	ql s
pAAqon	2871	144- h022	142- 64S1	141yy11-	142yS412	SU8y	ql s
pAver	1S071	8611	8h61	8008	86hS	1U1	ql s
pAver	1Sy71	0yy4	8- 86	8- 28	82- 6	2Uh0	ql s
poOAum	2- 72	01h26	0104-	021S-	010y1	SU41	ql s
p&onA&um	8671	1y2y6-	1y11- 1	18y6hy	1y12h1	SU80	ql s
p&onA&um	8871	10- - 24S	10- 42h6	102S14h	102y214	SU46	ql s
pulfur	- 471	- SyyS4	- S44y4	- S40- 8	- S6- 0y	1USS	ql s
i erbAum	1hy71	848S246	1SS2S- 20	1S4yh61h	y66h- y6	1SUyS	ql s
i erbAum	1hy72	4141y4y	4114814	4164- yh	414S- 86	SU6S	ql s
i GallAum	2S- 71	- S- 4	- 2Sy	- 242	- 162	- Uh4	ql s
i GallAum	2Sh71	0- 1y	0444	0h00	0440	1U04	ql s
i An	11871	2yy10	- S86y	- 1108	- S6h4	2U14	ql s
i A&anAum	4071	1h4h26	1hh- 2y	1h4- h8	1h40- 8	SU4	ql s
MranAum	2- 871	0hS- S	0h88h	0h- 4S	0h418	SUh0	ql s

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t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	0621h	0hyS-	0h444	0h8h4	SU1	ql s
Y&erbAum	10271	184- S	180Sh	10y2y	18- hh	2U14	ql s
Y&erbAum	10272	yS48	yS0h	y1h-	ySy2	SU6S	ql s
Y&erbAum	10671	1- 26h	1- 624	12y2-	1- 201	2U64	ql s
Y&erbAum	10672	162y4	16220	16y8y	16hS-	2U16	ql s
Y&&Aum	8y71	11h200y6	1- 0- 0y46	142841- h	1- 18- 2y2	11U$0	ql s
Y&&Aum	8y72	1hS2y40	140- 1h0	140h0S4	148- y- 6	1U11	ql s
ZAnq	6672	1S4- S0	1S4y2h	1Sh42h	1S4886	SU1-	ql s
ZAqonAum	yS71	2y8yy	- Sh42	2y482	2yy04	1U08	ql s
ZAqonAum	y171	6000	6h8h	6y00	608S	2U3y	ql s

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Nd. i:DI e t Nd:&T :J	y h SM1S	TdbiqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- 7S0712:14J- aJas	TI il MdbI:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	2072	40s- a4	404S60	40- 442	40a621	SR6	O P
d. iqe C. E	12171	4460	a2as	4s1	4 2	R14	O P
dIPp. qO	0a72	s22S	s1s1	s11S	s104	SR62	O P
BI dpe	1- a71	- 40s 0	- a- 162	- a4s6S	- a2S- 6	1RS-	O P
BI dpe	1- 071	6S- a0	62066a	61- s1	61aS4a	1Rs6	O P
BpIENdpe	s71	211a	2166	21s1	21a0	1R S	O P
BqPe biG	2Ss71	6s - 10	6sS004s	60sS14s	6 s- sSa	1R42	O P
BqPe biG	2Ss72	- 24626	- 2a0 0	- - 2S- 44	- 204 - S	1R22	O P
BICe q p	171	6a a	0S6S	021S	6sa2	4R0S	O P
9 I ne dpe	1S 71	2a4	246	2aS	2aS	1R60	O P
9 I ne dpe	1S671	44 4	4- 4	46a1	4aS6	2Rss	O P
9 I ne dpe	11171	- 1-	- 10s	- 1S-	- 14S	1R22	O P
9 I NOdpe	4- 71	160as-	1011 s	10Sa- 2	16s001	1R1-	O P
9 I NOdpe	4471	2 sS2- 0	2s460- 1	2s6- 216	2s- - - sa	1R S	O P
9 I Ir C.	1271	- 0114- 6	- 00 a4-	- 0aa466	- 04 4 2	SR31	O P
9 I Ir C.	1272	460aS	4a6 s	40S a	46aS	1Ra0	O P
9 GNOIq p	- a71	22- ssas	26a20S62	2s21aas4	26S4041	1- R1	O P
9 GNOIq p	- a72	2- SsS4	2- - 4 0	2- - 6S2	2- 266a	SR66	O P
9 GICe dpe	a272	20s20	20 44	20aSS	200a0	SR 2	O P
9 Cr I Nd	as72	2sS46	200- 4	2 S 4	2 2	2R4S	O P
9 Ct t pI	6- 72	s4- - 1	s440a	s- - 24	s4S4-	SR60	O P
TEPt ICPdpe	1a671	06- 1s	0s1SS	06s1-	00444	1R s	O P
TEPt ICPdpe	1a672	- - 06s	- - sS	- - a22	- - 020	SRa6	O P
UIr dpe	16471	a420	a421s	a41 6	a422	SRSs	O P
UIr dpe	16472	221s2	21 2	2100a	21s- 1	1RS4	O P
HI nONq dpe	16S71	60446	6s4- 1	6 2	6 a6	1R4	O P
HI nONq dpe	16S72	- - 626	- - 1aa	- - - 22	- - - 60	SR02	O P
h ONe dpe	16a71	ssSa440	s 2s224	s002S60	s - aa0s	SR6	O P
h ONe dpe	16a72	4- S6S -	422a4a4	422- 21s	42a1a a	1R1	O P
& ndpe	11a71	010 - S	0- 4104	01- 6S02	021 01S	1RaS	O P
& ndpe	11a72	s 6- a	1SSSS01	ss2 s2	ss- 66	SRa	O P
&C.	a472	1s- - aSS	1s1Sa- 2	1s2a1s1	1s2- S04	SR6S	O P
&C.	a672	- a210- S1	- 41- 1- 6a	- 40 26	- 401S4a1	1Ra0	O P
&C.	a072	2aa- 2	144ss	1 1ss	1s41S	SR6s	O P
KIEt iC.	- 71	2ss	- SS	- 01	- 2-	12R4	O P
LpI n	2S671	sa22S	sSS4S-	sS11S2	s sS	SR6	O P

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T:J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t Np:&T:J	y h SM1S	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- 7S0712:14J- aJas	TI il MdNp:mI e p:J	S42dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	061ssa	04ss6	0a- s22	0aa2sa	SR 1	Q P
LpI n	2S 71	- 0- 2- 4	- 0461- s	- 6s1s04	- 02- 4 0	SR06	Q P
LqGdpe	671	2620a2S	261S 26	26S- 0s4	2614S46	SR40	Q P
y I g. pPdpe	2472	a2a21S	a1a066	a1- 020	a1 2- 4	1R1	Q P
y I . gI . pPp	aa72	0S1026	6sS0- a	6s21- -	6s4 6a	SR 6	Q P
y CNEr np. be	s471	1S- - 0	1S6aa	1S- - 0	1S44-	1R0a	Q P
y CNEr np. be	sa71	661S	60a2	6a- a	66- 2	1R66	Q P
y CNEr np. be	s671	011	62S	0a-	6sa	SR0s	Q P
y CNEr np. be	s071	4a1	44as	4160	4- 1	4R2	Q P
y CNEr np. be	s 71	11S46	1Sa0s	1Ss6-	1S 6-	2R2s	Q P
mpOnEe dpe	1aS71	144 4	14ss41	146Ss-	146s61	1R 1	Q P
mpOnEe dpe	1aS72	466S4	46SS2	460S	464-	SR 2	Q P
mqOkpN	6S72	1642-	161- -	1a2aa	1as- 0	- R 2	Q P
uGCPt GCIbP	- 172	- 0 4	- s 4	- 6a1	- S6	4R41	Q P
uCIl PPdpe	- s72	2 0saS	2 a401	206 -	2 - 42S	2RS6	Q P
FGCndpe	1S- 71	01aS22S	02saa60	01 S6-	02112 -	1RSa	Q P
FGCndpe	1S- 72	- 2s0-	- - 1S -	- 2aa- 64	- 2 0 0s	SR	Q P
DCI . ndpe	4a71	46 42 1	4 1ss6s	46s- 446	40- 2a6a	1R6S	Q P
DCI . ndpe	4a72	1a2a2	1a21 S	1aSa -	1a1064	SR6	Q P
DpNp. dpe	271	1- a	11a	2	111	2- Rs1	Q P
DpNp. dpe	0072	14-	1- 0	22S	160	20R0	Q P
DpNp. dpe	0 72	4	12-	110	1S	1sR44	Q P
DqNqC.	2 71	1- S4- - 6-	1- 4Sa a	1- 2 0221	1- 24a4sS	1R4S	Q P
DqNpI	1S071	a01S	a2as	a04-	aa01	4R a	Q P
DqNpI	1Ss71	a2Ss	a1as	a11	a162	SR s	Q P
DCndpe	2- 72	01aa1	02a40	026- s	02246	SR 4	Q P
DiIC. idpe	671	11a11a	1102a6	110- 16	116a62	1RS	Q P
DiIC. idpe	71	1S2- 2 0	1S160s	1SSa416	1S1a160	SR s	Q P
DbNbI	- 471	20a0sa	20a244	20 S4	206- 62	SRa4	Q P
cpIr dpe	1as71	1S1- s- - 1	1SS04S- 6	sssS002	1SS6 S46	SR04	Q P
cpIr dpe	1as72	421SS- a	4124aS4	424S2- 6	41s1as2	1R4-	Q P
cGI Ndpe	2S- 71	22aS	2- 2a	2- aS	2- Ss	2R2a	Q P
cGI Ndpe	2Sa71	a6s-	a01	6S a	a - 2	- R06	Q P
cq	11 71	10 2S	1 S 0	10s62	10sa0	SR04	Q P
cqI . dpe	4071	1S- - 14	1S2- 1	1S- - - s	1S- S11	SRa-	Q P
5II . dpe	2- 71	4 0	4s2a4	4 6- 6	4 s2-	SR64	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Nb. i:DI e t Nb:&T :J	y h SM1S	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJas	TI il MdbI:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a172	a1s14	a14 2	a1a0s	a16as	SR44	Q P
YiipIr dpe	10271	1- - 4s	141S	1- 64s	1- 0S2	2R0s	Q P
YiipIr dpe	10272	60- a	6604	6 1-	6041	1RS-	Q P
YiipIr dpe	10671	1S401	1Sas6	ss01	1S- 46	- R2S	Q P
YiipIr dpe	10672	140- 1	14s4	1a4s	1aSas	2R6-	Q P
YiiIdpe	s71	1- 6S Sa	1- 166S	1- aa64S4	1- 0662sS	1R 2	Q P
YiiIdpe	s72	1402 44	14as0SS	14a00a4	146- 4- 2	SRa6	Q P
Zq O	6672	01- - a	0S 6	0Sa24	0Ss1a	SRa0	Q P
ZdQC. dpe	sS71	10612	2S1a1	1s164	1 s0a	6R0a	Q P
ZdQC. dpe	s171	42 4	4S42	42s2	42S6	- R	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t N:&T:J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t N:&T:J	y h SM11	T qbiqC. :M OCI:J	1
TI ip:A:coe p:dOobqpn:J	2S2- 7S0712:14J- aJsa	TI il Mqb:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
dNe q qpe	2072	s 4s2a	s - - 2a	sa6s02	s 1406	SR0-	Q P
d. iqe C. E	12171	10a4	10s	2S10	1as-	0R3	Q P
dIPp. qO	0s72	1a6-	1a62	16 S	1aSs	sR32	Q P
BI lqpe	1- s71	- 022	- as4	4Ss410	4S12- S	SR 2	Q P
BI lqpe	1- 071	6 - 6 a	0S6401	0S0S0a	0S2416	1RSa	Q P
BpIENqpe	71	2aa1	2 S	2 66	2 46	1R 4	Q P
BqPe biG	2S 71	6a11- 16	0S642a2	60as6s4	6aa0Sa4	2R24	Q P
BqPe biG	2S 72	- 221aas	- 24 a06	- 1s1s- s	- 2S0066	1R3a	Q P
BICe q p	a171	0s11	026S	01s2	0- Sa	2R32	Q P
9 I ne qpe	1Sa71	1aa	12s	1- a	1sS	22RSs	Q P
9 I ne qpe	1S671	4- s1	4S60	4110	410	- R32	Q P
9 I ne qpe	11171	10a0	161	1004	1020	sR41	Q P
9 I NQqpe	4- 71	2s1 - 4	2s1 26	2ssS04	2s2 0a	SR02	Q P
9 I NQqpe	4471	42a - 2s	420s61a	42012- 2	420a02s	SR22	Q P
9 I Ir C.	1271	6S1- 2a2	61- 04a4	6- - 211-	616S 6S	2R31	Q P
9 I Ir C.	1272	00s22	00as0	0626s	00214	1RS	Q P
9 GNCIq p	- s71	2- a2- 264	204sss 2	2 4- 6 61	26 Ss202	1SRsa	Q P
9 GNCIq p	- s72	2- S200	2- a402	2- a	2- 624	2R21	Q P
9 GICe qpe	s272	2s66S	246s1	2s02-	2s- 4s	2R 0	Q P
9 Cr I N	s 72	26a42	2s- S6	260ss	26- S1	- R2a	Q P
9 Ct pI	6- 72	s4S1	s4Sa-	s- 10	s- 061	SR 4	Q P
TEPt ICPqpe	1s671	a44 -	a- 110	a44a4	a4S- 1	SR 4	Q P
TEPt ICPqpe	1s672	- 6222	- sa1a	- s0 1	- s 44	SR30	Q P
UIr qpe	16471	62- 1-	6- 1s	6S12S	61a64	2R34	Q P
UIr qpe	16472	2s240	2s414	24 s0	2s2S6	SR 2	Q P
HI nCNqqpe	16S71	04Sa2	0sS- 0	04S- 1	04- a-	SR06	Q P
HI nCNqqpe	16S72	- s a2	- s16S	- 4 - 2	- s- sa	1R36	Q P
h CNe qpe	16s71	0- 14	01424S	6- 4- 2a	00- S6	1Ra1	Q P
h CNe qpe	16s72	41ss0S6	42S1a2	- a4S12	411- a4	2R0	Q P
& nqpe	11s71	01 - 66a	0S1as4s	6 a2a1S	0S6sSSa	1R3S	Q P
& nqpe	11s72	6a6 2	0 - s4	- 46a	62sSs	2R1s	Q P
&C.	s472	1s6Sa -	1s2S- S0	1s4- 12s	1s41442	1R 2	Q P
&C.	s672	20061aS-	201a2s- S	20s4s12s	204 64a6	1RS6	Q P
&C.	s072	6sss4S	66Sa41	6s6- 6S	6s0sa1	SR4-	Q P
KIEt iC.	a- 71	- 40	- 16	- 46	- - 0	sR2s	Q P
LpI n	2S671	- - 1622	- - aSs0	- 2424a	- - 1- S	2RS	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T :J	y h SM11	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJsa	TI il MdNp:mI e p:J	S4- dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	204640	202S4-	2011aS	202624	SR36	Q P
LpI n	2Sa71	12 16S2	1- S2404	12a4- 0a	12 2a1a	SR0S	Q P
LqGdpe	671	264- 11a	2s20saa	2s S616	2sa01S0	2R24	Q P
y I g. pPdpe	2472	s4261a	s41S4a	s- 01sS	s4S202	SRs2	Q P
y I . gI . pPp	ss72	6a1 a	606s0a	602a66	600140	SR3a	Q P
y CNEr np. be	471	16- 4-	16a44	160 4	1666S	1R3s	Q P
y CNEr np. be	s71	2010	20SS	20s	202s	1R1S	Q P
y CNEr np. be	671	s64-	sss1	s06S	s6s1	1Ras	Q P
y CNEr np. be	071	1610	1a42	2S60	1a42	12R22	Q P
y CNEr np. be	a71	441a	4- s	4- 26	4- 60	1RS6	Q P
mpOnEe dpe	1sS71	1ss- 1	1s1110	1s12 a	1s26S2	1R3a	Q P
mpOnEe dpe	1sS72	40Ss2	46001	461- 6	466s-	1RS1	Q P
mqOkpN	6S72	11s2s	11s0s	1S6S4	112- s	4Ra0	Q P
uGCPt GCIbP	- 172	- - a4	- 006	- 026	- 62a	sRaa	Q P
uCIl PPdpe	- 72	- 26 a2	- 26s- -	- 2sa16	- 26444	SR1a	Q P
F GCndpe	1S- 71	0- - 11- 4	0SsSS41	01- SSS6	010S- 4	2RS2	Q P
F GCndpe	1S- 72	- 202aas	- 2s10 4	- 1206	- 2104s	2R44	Q P
DCI . ndpe	4s71	466410S	4s s Ss	4646121	46- s- a	SR06	Q P
DCI . ndpe	4s72	140021	1401sa	144s4-	146404	1R16	Q P
DpNp. dpe	a271	1- s	1 1	1S6	144	2 R	Q P
DpNp. dpe	0072	160	100	1- S	1sa	1sR30	Q P
DpNp. dpe	0a72	146	120	110	1- S	11R-	Q P
DqNDC.	2a71	1s1 0S 4	1s2Sa11	1s26- - 22	1s222a4s	SR2-	Q P
DqNpI	1S071	1 0s	16a-	1a42	1a- -	0R6	Q P
DqNpI	1S 71	1a42	16Sa	10a4	104s	6R6	Q P
DOndpe	2- 72	4- sS0	42412	426- S	42asS	1Rs	Q P
DiIC. idpe	a671	1a1aSs	1aS1s2	10a- 2S	1aSS -	SR0	Q P
DiIC. idpe	aa71	166a- a1	162a- 1S	161- 0a-	16- 6a2s	1R0-	Q P
DbNbI	- 471	2a20S2	2as2a0	2a2 - S	2a- 64S	SR3S	Q P
cpIr dpe	1s 71	s sa	1SS24Sa1	60- Sa	s0a2	SR2a	Q P
cpIr dpe	1s 72	4S02 0S	4S a s6	- - 1416	4S- 4440	2R2-	Q P
cGI NNpe	2S- 71	1aa4	1 a4	212s	1 0	6RSa	Q P
cGI NNpe	2Ss71	sS4-	46s1	4a1a	4a- 0	4RS0	Q P
cq	11a71	aSS-	aSS-	06 4	0 SS	2R2s	Q P
cqI . dpe	4071	11a 1	11aa4S	12S1Sa	11 - 1-	SR3a	Q P
5 II . dpe	2- a71	s1 4	s201S	s2- 41	s2- - 4	SR0-	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Nb. i:DI e t Nb:&T :J	y h SM11	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdpn:J	2S2- 7S0712:14J- aJsa	TI il MdbN:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	s172	416s0	4S1S6	41- - S	41S- 1	1R	OI P
YiipIr dpe	10271	16s44	1621S	16420	16- 4	1RS-	OI P
YiipIr dpe	10272	060s	0 a6	0a40	0a- 6	1R	OI P
YiipIr dpe	10671	112- S	11 40	11 40	110Sa	- Rs4	OI P
YiipIr dpe	10672	1s0a2	1saa2	140 0	1s4a0	- Ra0	OI P
YiiIdpe	a 71	1- a s22a	1- s06- 21	1- s 04-	1- 6a 66-	1R S	OI P
YiiIdpe	a 72	144104a	1444420	1- aS06a	1422- 14	2Rs-	OI P
ZqO	6672	4S- s1	41- 1-	4Sssa	4S041	1R24	OI P
ZdOC. dpe	S71	41262	4112a	41s02	41- 21	SRss	OI P
ZdOC. dpe	171	S2a	s s	2- 0	2a0	- RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:41:J6	&sTsUdP u sb r:	S44q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	- - N6N0	- - 2J0S	- 26hh-	- - 20JS	1M06	dDw
qCTb nCE	12171	22Sh	24- 4	2- - 4	2- 2J	4MNJ	dDw
qpwr Ccd	0J72	10NS	1N42	1N26	1N16	1M00	dDw
Bspcmb	1- J71	2SSN- 1	2S- J61	2S4JSS	2S2h64	SM14	dDw
Bspcmb	1- 071	- JJN- 6	- JN0S4	- 6S246	- JN262	SM62	dDw
Br pEPRmb	h71	1JJJ	1604	1JhJ	16SN	- M06	dDw
Bcwb mTG	2Sh71	600N016	6000- 2N	6N6hh0S	6NSN601	SM0N	dDw
Bcwb mTG	2Sh72	- - SJNJ6	- - 1h002	- 0- - 2- N	- 4J2hJJ	0MS-	dDw
Bpmb cCr	N171	62h-	64h-	61J2	6- 1-	2M02	dDw
5 sob cmb	1SN71	121	N-	NN	h0	21MJ	dDw
5 sob cmb	1S671	- h06	- 0h2	- 0h2	- NJ-	2M0J	dDw
5 sob cmb	11171	1101	1146	11J1	11J6	1M16	dDw
5 sPdcmb	4- 71	N- 140	N- 64-	N4- N0	N- 02J	SM0J	dDw
5 sPdcmb	4471	142004N	14622SJ	14- 66S1	14421NJ	1M24	dDw
5 spenC	1271	- 24hS0J	- - 04010	- 414- S6	- - 46S- -	2MN	dDw
5 spenC	1272	4SJ6J	42JS4	411h2	4142S	2Mh	dDw
5 GPmpcCr	- J71	24S2406-	20h0- J4J	2hh26S2h	20- SN112	11MS1	dDw
5 GPmpcCr	- J72	2- 4h- 4	2- h116	24- J6J	2- h2SJ	1MMS	dDw
5 Gpmb cmb	J272	2h2J0	2N66h	2N241	2N022	1M0N	dDw
5 nesFT	Jh72	1hJJ0	1h24-	1NNJ6	1h21h	1MM-	dDw
5 nDDr p	6- 72	- - 2Jh	- - 0N4	- - N14	- - 61h	SM1-	dDw
&EwDpnwcmb	1J671	J644J	JNS- J	Jh1S6	J0N62	2M1	dDw
&EwDpnwcmb	1J672	2416h	241hJ	2- 04N	24S- 0	1MS4	dDw
Fpecmb	16471	422S1	4- N6J	44SN2	4- - N-	2M0	dDw
Fpecmb	16472	10- 21	10- SJ	10SS4	1021S	1MS4	dDw
HsonPCcmb	16S71	4Nh24	J14N-	J2- 4J	JSh1N	- M4h	dDw
HsonPCcmb	16S72	244hh	242Sh	24SNh	24266	SMM0	dDw
y nPb cmb	16J71	h46N- JJ	hNJJN14	hN4J10N	h02- 11J	2M20	dDw
y nPb cmb	16J72	422611h	42J4S- S	4Jh60- 4	4- JNh61	4M0-	dDw
tCocmb	11J71	0S2- h0-	01J2N6-	0- - 0hNJ	01016S0	2M2S	dDw
tCocmb	11J72	hhNSh6	hN2J44	1SN2NN-	1S21104	JM2h	dDw
tpnC	J472	1S204hh	1SS0- S0	hh- 412	1SSh4S6	1M0S	dDw
tpnC	J672	1h2- 22S1	1h26- 6- 2	1h- 2N1h0	1h204600	SM2J	dDw
tpnC	J072	46040-	46SSJ4	4JJS4J	46SNJN	1M6	dDw
KpEDTnC	N- 71	2h0	- 16	- S0	- S0	- MS6	dDw
Lr so	2S671	2J1S62	2JNN42	2J0hhN	2JJh60	1M00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2-7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	2111hS	212SSN	21J041	212hNS	1M14	dDw
Lr so	2SN71	hN6NNh	1SSh04h	1S110h6	1SS2N11	1MIN	dDw
LdTGmb	671	24hJN1N	2J162Nh	2J10-11	2JShNS6	SM4N	dDw
9 sgOr wcmb	2472	2-0110	2-4N66	2-SNJS	2-420N	1MJ	dDw
9 sOgsOr wr	JJ72	-h22-S	-N6hN-	-NS064	-N66Jh	1M4N	dDw
9 nPEeor Cmb	h471	NN-6	h412	h4hJ	h24N	-MIN	dDw
9 nPEeor Cmb	hJ71	-4N4	-4-4	-N10	-J0N	JMI-	dDw
9 nPEeor Cmb	h671	4NN4	J206	J1-4	JShN	-MIh	dDw
9 nPEeor Cmb	h071	2-Jh	2-Sh	21Jh	220J	4MIN	dDw
9 nPEeor Cmb	hN71	664-	Jh-J	6J6N	6-N2	6M1S	dDw
u r noEb cmb	1JS71	1S41hJ	1S0-Jh	1Sh0S6	1S0SN6	2MIN	dDw
u r noEb cmb	1JS72	-2h44	-2N24	-2660	-2N11	SM12	dDw
u cdkr P	6S72	hJ00	h4NS	h1-6	h-hN	2M46	dDw
8 GhwDGhpmw	-172	16SS	1J60	14h2	1JJ-	-MI0	dDw
8 nTswwcmb	-h72	1J62N2	1J-2J0	14N-N-	1J2641	2M61	dDw
. Ghocmb	1S-71	02S10S4	014N-01	02NS-6N	021S14N	SM12	dDw
. Ghocmb	1S-72	-2h2N0-	-20JJh0	-JJ-h62	--04144	4M62	dDw
l dsCocmb	4J71	4JNhN1-	4J0NNhJ	4JNJhh6	4JN4hS1	SM12	dDw
l dsCocmb	4J72	1J1h-S	14h-6J	164h02	1JJ422	JMIN	dDw
l r PCcmb	N271	12J	JJ	00	N6	41M04	dDw
l r PCcmb	0072	1-S	11-	140	1-S	12MI2	dDw
l r PCcmb	0N72	N2	N0	0S	NS	1SM10	dDw
l dPdnC	2N71	0-264S4	0-26424	0-0NJ01	0-4-0hh	SM41	dDw
l dPr p	1S071	140J	1-60	1610	14N6	NM44	dDw
l dPr p	1Sh71	1-JN	140J	1J2J	14J-	JMIh	dDw
l nocmb	2-72	4S1N1	4S0h1	4S604	4SJ4h	SMIS	dDw
l TpnCTcmb	N671	0-SJN	06J6S	046JN	040Jh	2M4	dDw
l TpnCTcmb	NN71	6462-0	66S422	6J24NS	6J-S46	1M8h	dDw
l mPmp	-471	2J6S41	2JN22S	261J1N	2JNJh-	1M80	dDw
Ar pecmb	1Jh71	h0J104h	hhNJNS-	h016JJ4	hN1NS-6	1M4h	dDw
Ar pecmb	1Jh72	4202S2J	4S4NNN2	44hJ0J-	420222S	JM4-	dDw
AGsPRcmb	2S-71	1-SS	1460	142J	1-h0	6M21	dDw
AGsPRcmb	2SJ71	--26	--60	-J26	-4S6	-M1S	dDw
AdC	11N71	1262-	120S6	126hN	12606	SM6	dDw
AdSCcmb	4071	N22-6	N44hS	N641S	N4-0h	2M4N	dDw
RpsCcmb	2-N71	---hJ	-460-	--JS-	--NJ0	2M8h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Rr CTI sb DP t&:	9 y SU12	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
VsCsoomb	J172	- 1NhJ	- 21Jh	- 14hJ	- 1NJS	1N8J	dDw
YTTr peomb	10271	11hJ6	11hJ6	12- J6	12SNh	1M11	dDw
YTTr peomb	10272	J01N	JJ1N	JJ2h	JJNN	2N81	dDw
YTTr peomb	10671	N0hJ	h10N	N062	Nh12	2M8S	dDw
YTTr peomb	10672	1- N- S	146- S	1J24N	14J6h	4MMN	dDw
YTTpomb	Nh71	1- 641040	1- JN22JN	1- - N4JN1	1- J- 61h6	SM1h	dDw
YTTpomb	Nh72	14N11S-	1- J621-	1JhN1NN	140NJS1	NM1N	dDw
ZdCd	6672	1h- 60	1hh14	1h4hS	1hJhS	1M40	dDw
ZqpdnComb	hS71	1hS64	1hJ02	2SS6J	1hJ60	2M6	dDw
ZqpdnComb	h171	41S1	4442	4S42	41hJ	JM1J	dDw

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP u sb r:	S4Jq. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	64J21N	6- J- JJ	6- J- 62	6- N64J	SMMh	dDw
qCTb nCE	12171	2JN4	2h- 4	26- 4	2010	6M10	dDw
qpwr Ccd	0J72	100S	10N-	1064	100-	SMJ	dDw
Bspcmb	1- J71	- 020S2	- 0- 4S1	- 601h1	- 01ShN	SM12	dDw
Bspcmb	1- 071	6J26Sh	66266S	6J02J1	6J0JS0	SM00	dDw
Br pEPmb	h71	- 122	- 166	- 10S	- 1J-	SMM4	dDw
Bcwb mTG	2Sh71	60- SNhS	01- 1h26	60021NN	6N0N- - J	- M21	dDw
Bcwb mTG	2Sh72	- 1hNSJ4	- 2h1h0h	- 2J4- - S	- 24N121	1M46	dDw
Bpmb cOr	N171	06S2	0h00	N- J-	0h00	4M0S	dDw
5 sob cmb	1SN71	1N-	1h2	2- -	2S-	1- M21	dDw
5 sob cmb	1S671	44- 4	4426	4260	4- 06	2M1J	dDw
5 sob cmb	11171	221h	2- JS	21Nh	22J-	- MM1	dDw
5 sPlcmb	4- 71	1J- h- S	1J6h0S	1J6J12	1JJNS4	1M3J	dDw
5 sPlcmb	4471	262J60N	260- h64	2021- 4N	260- 66-	1M0h	dDw
5 spenC	1271	J1NJ22N	J- 6S1S0	J4061- J	J- 4S4hS	2M04	dDw
5 spenC	1272	6601h	6Jh4h	66J1S	66- h2	SM0S	dDw
5 GPmpcOr	- J71	220- 0- 4J	266NhNN0	2N0h1624	26S02hJ2	11M0h	dDw
5 GPmpcOr	- J72	21hNS0	22Jh60	22h1N-	224hN6	2M12	dDw
5 Gpmb cmb	J272	2h410	- S24h	2Nh- -	2hJ- -	2M2J	dDw
5 nesPT	Jh72	- JS46	- 44J2	- 420N	- 4Jh2	1M10	dDw
5 nDDr p	6- 72	642hJ	640hN	64060	6462S	SM44	dDw
&EwDpnwcmb	1J671	1S4h11	1SJ06N	1S- 404	1S401N	1M11	dDw
&EwDpnwcmb	1J672	4- 601	426hJ	4204J	4- S- 0	1M2N	dDw
Fpecmb	16471	N- JJ4	N6112	N0S- 6	NJJ60	2M11	dDw
Fpecmb	16472	- J06N	- 4N66	- JS1-	- J216	1M10	dDw
HsonPCcmb	16S71	Nh204	hSh- J	N0- h6	Nh2S2	1MMh	dDw
HsonPCcmb	16S72	42J24	42SN6	41N- h	421JS	SMM2	dDw
y nPb cmb	16J71	h6NNS- 1	hhhNS2S	h64J4- 4	h000162	1M10	dDw
y nPb cmb	16J72	4SJJhS-	426hN42	42JS6JS	41h21- 2	2MM2	dDw
tCocmb	11J71	0Sh4161	01NS6JN	6hJ11N6	0S0J- - J	1M64	dDw
tCocmb	11J72	h6SS60	hN46h1	1SS426J	hN- SS0	2M2J	dDw
tpnC	J472	24- 1N00	24JN626	2421J- 6	24- 0- 40	SM0h	dDw
tpnC	J672	44J4h162	4416N2J2	4- 0JSNh4	441J61S-	SM1S	dDw
tpnC	J072	1S62hS4	1SJSJN2	1SJ- 6J2	1SJJ01-	SM61	dDw
KpEDTnC	N- 71	- 62	- J0	- J6	- Jh	SM12	dDw
Lr so	2S671	- 4040N	- 6SJ- -	- JN- 2-	- JJ44J	1M10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	2N611S	2h00Sh	2h4h0S	2h2h- S	2N80	dDw
Lr so	2SN71	1- 64N0h	1414JNN	1- h12SN	1- hS22J	1N0h	dDw
LdTGmb	671	2J- h- J0	2JNN- - 1	2JN- J6-	2J0S410	1N8J	dDw
9 sgOr wcmb	2472	J- NSJ2	J46246	J464J0	J4- JNJ	SNMN	dDw
9 sOgsOr wr	JJ72	0N22NJ	0N66- 2	000- 2h	0N2SN2	SN0S	dDw
9 nPEeor Omb	h471	1010N	10NhJ	101h4	10422	2MJ	dDw
9 nPEeor Omb	hJ71	6420	0S00	6JJ2	66NJ	JM16	dDw
9 nPEeor Omb	h671	h64J	hh01	h2hJ	h6- 0	- M1	dDw
9 nPEeor Omb	h071	- NN4	4626	4J4-	4- J1	hM4	dDw
9 nPEeor Omb	hN71	1S40h	11- - N	112- N	11S1h	4N26	dDw
u r noEb cmb	1JS71	104NS4	1N10- 0	10040h	10NSS0	1M16	dDw
u r noEb cmb	1JS72	J4N2J	J2JN6	JJS06	J4162	2M-	dDw
u cdkr P	6S72	26hNh	262J1	26S41	26420	1MMN	dDw
8 GhwDGhpmw	- 172	- N10	- J42	- N- 4	- 0- 1	4Mh	dDw
8 nTswwcmb	- h72	46N0- 2	46S62J	461h16	46- 0J0	SM14	dDw
. Ghocmb	1S- 71	01- 1hS6	0204- 26	0S0614-	016S0h2	1M4-	dDw
. Ghocmb	1S- 72	- 144JNh	- 20- - J0	- - 46JS1	- 2J4N16	- M14	dDw
I dsCocmb	4J71	46112N0	40- - 026	4J6N2N4	46- 0066	1MMJ	dDw
I dsCocmb	4J72	144JhS	1J121-	1J1h0J	14h2Jh	2N02	dDw
I r P Ccmb	N271	104	2SS	210	1h0	11M10	dDw
I r P Ccmb	0072	1h-	1NS	210	1h0	hM44	dDw
I r P Ccmb	0N72	160	1- J	1- 1	144	1- N60	dDw
I dPdnC	2N71	114N40- 0	1101hN40	11N12400	11602- J4	1M4J	dDw
I dPr p	1S071	16JN	1N60	2S10	1N40	hN04	dDw
I dPr p	1Sh71	16JN	1h42	1hSh	1N- 6	NM4-	dDw
I nocmb	2- 72	426J4	4- 24N	4- 066	4- 22-	1N2h	dDw
I TpnCTcmb	N671	h- h2-	h- S10	h- h04	h- 6- N	SM10	dDw
I TpnCTcmb	NN71	NSJ6- 2	NSh44S	N16h- -	N1S66N	SN01	dDw
I mPmp	- 471	201N0J	20SN21	201- 6S	201- J2	SM1h	dDw
Ar pecmb	1Jh71	hNhS644	1SSh- 111	hNhSNS0	hhJN1N0	1M10	dDw
Ar pecmb	1Jh72	- h102JJ	4SJJ- 0N	414JJhh	4S- h411	2MMJ	dDw
AGsPbmb	2S- 71	2042	262J	- 1JS	2N- h	hN01	dDw
AGsPbmb	2SJ71	6N1S	6N6h	62h-	66J0	4N06	dDw
AdC	11N71	1S66-	1S021	11SSJ	1S0h6	1N6h	dDw
AdSCcmb	4071	26JNN0	20- 4N4	264NJ4	26NS0J	1N06	dDw
RpsCcmb	2- N71	J0JN1	6SNSJ	JN04J	JhS44	2N00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP u sb r :	S4Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4N1J0	4N100	40J0h	40h01	SM01	dDw
YTTr pe omb	10271	2N24S	200h6	2040h	20N- N	1M10	dDw
YTTr pe omb	10272	1411-	1- N- J	1- 246	1- 0- 1	- M4-	dDw
YTTr pe omb	10671	1NJ64	1NJNh	1NNSJ	1N6J-	SM01	dDw
YTTr pe omb	10672	1h10J	1h1hN	1h24N	1h2S0	SM1h	dDw
YTTpomb	Nh71	1- hJN4N4	14J412J1	14Sh2642	141h04Jh	2M1J	dDw
YTTpomb	Nh72	144N42-	1JS0S- -	1J2J62S	14h- 6h2	2M0S	dDw
ZdCd	6672	JNN2J	JNNhJ	JNJS0	JN042	SMJ	dDw
ZqpdnComb	hS71	- JhNS	- 0N44	- 0h11	- 024J	2M14	dDw
ZqpdnComb	h171	N21h	0Nh4	N- 44	N1J-	2MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N1046N	N14JS6	NS6h4S	N12h01	SM00	dDw
qCTb nCE	12171	10h2	1Nh2	2SSh	1Nh0	JM02	dDw
qpwr Ccd	0J72	1hN-	1NhN	1NN6	1h2-	2M0J	dDw
Bspcmb	1- J71	4600JJ	466- 62	46S6NS	464h- 2	SMM1	dDw
Bspcmb	1- 071	N1S640	N26J1-	N1SJhJ	N1Jh1N	1M12	dDw
Br pEPmb	h71	4S1J	4SS-	4SS4	4SS0	SM10	dDw
Bcwb mTG	2Sh71	606- 10N	6NS0J24	6NJ- - J0	6NSNS2S	SM06	dDw
Bcwb mTG	2Sh72	- 206- 2N	- 2- N246	- 2- 2066	- 24h11-	SM0-	dDw
Bpmb cCr	N171	NN0N	h20N	h- 2S	h1Jh	2M06	dDw
5 sob cmb	1SN71	1J4	101	2SN	10N	1JM01	dDw
5 sob cmb	1S671	4410	464-	4260	444-	4M2J	dDw
5 sob cmb	11171	2S01	2S61	2S4N	2S6S	SMJN	dDw
5 sPlcmb	4- 71	1h- 0hh	1h200S	1N0NJ-	1h1404	1M06	dDw
5 sPlcmb	4471	- - 1- 461	- - 226JJ	- 2460J0	- 2h42h1	1M26	dDw
5 spenC	1271	- h06- 61	4S- 12J1	4S6- 4J4	4S2- 6Nh	1MSh	dDw
5 spenC	1272	4h- 06	4h4SS	JS- - 0	4h0S4	1M1S	dDw
5 GPmpcCr	- J71	22hJ010-	2664S202	2N41J120	26SS41h1	1SM01	dDw
5 GPmpcCr	- J72	21hhS1	222h6-	226SS1	222hJJ	1M10	dDw
5 Gpmb cmb	J272	4- 04S	4- - Jh	4- 2NJ	4- 461	SM16	dDw
5 nesFT	Jh72	4- 0hS	42h- J	4- 64-	4- 4J6	1MSJ	dDw
5 nDDr p	6- 72	6N142	6040h	6N6hJ	6N1S6	SMMh	dDw
&EwDpnwcmb	1J671	1- h0NJ	1- h20S	14S10-	1- h04-	SM12	dDw
&EwDpnwcmb	1J672	J00- 0	JN4J4	J0242	J0N11	1MSJ	dDw
Fpecmb	16471	116J6N	11h2- 4	114h46	116h16	1MMJ	dDw
Fpecmb	16472	404- N	404S1	461- 6	46hh2	1MJN	dDw
HsonPCcmb	16S71	122h1-	11NhJ4	11h441	12S4- 6	1M0h	dDw
HsonPCcmb	16S72	JN1- -	J60N0	J6N00	J0266	1M11	dDw
y nPb cmb	16J71	1SSJhN26	1SS06S1J	hN210SS	hhNJN40	1M4-	dDw
y nPb cmb	16J72	422116h	42h- N0-	4241- 00	42J214S	SMMN	dDw
tCocmb	11J71	01206J6	02S21JJ	0- - N6S4	0222NSJ	1M4N	dDw
tCocmb	11J72	h0J624	h06J1S	h6N01h	h0- 61N	SM44	dDw
tpnC	J472	- 1- JN2N	- 141J11	- 11S4SN	- 12h24h	SMJ-	dDw
tpnC	J672	J01- 2S- h	JJ6- 2102	JJhh1S6J	J62J10Jh	1MJh	dDw
tpnC	J072	140h6JJ	1404042	14J240-	146NhJ0	SMJh	dDw
KpEDTnC	N- 71	420	466	421	4- N	JMJ6	dDw
Lr so	2S671	- 21- 61	- 24- 0S	- 2- JJS	- 2- Sh4	SM4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpro:	2S2- 7S0712 14:40:JJ	&sTsUdP usb r:	S46q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20S2hN	20- J- J	26N66S	20SN- 1	SM12	dDw
Lr so	2SN71	12N0N44	12N6J2h	12N222S	12NJJ- 1	SM4-	dDw
LdTGmb	671	2J- 2N- 6	2J6h210	2J6N0hS	2JJ6h4N	SMM2	dDw
9 sgOr wcmb	2472	6J042J	64- JNh	64- S0-	64NS2h	1M46	dDw
9 sOgsOr wr	JJ72	1SJ1S12	1S- 6141	1S4NhN2	1S4J- 0N	SM00	dDw
9 nPEeor Cmb	h471	1- N4h	14141	14S16	14SS2	1NSJ	dDw
9 nPEeor Cmb	hJ71	N211	00h4	N1S-	NS- 6	2M0h	dDw
9 nPEeor Cmb	h671	1S1S4	hN2h	1S10h	1SS- 0	1MM4	dDw
9 nPEeor Cmb	h071	401N	JS- 4	JSSh	4h2S	- MN	dDw
9 nPEeor Cmb	hN71	1- S1J	1- NS0	12hN2	1- 26N	- M2	dDw
ur noEb cmb	1JS71	2- h126	2- h- N1	2- J- - 4	2- 0h40	SM1J	dDw
ur noEb cmb	1JS72	02666	046J0	02J22	0- 2N1	1M0-	dDw
ucdkr P	6S72	2- N6S	22h- 2	220N2	2- 1h1	2M2	dDw
8 GhwDGhpmw	- 172	- J10	- 660	- 2JS	- 40N	6NS0	dDw
8 nTswwcmb	- h72	JS2S4h	4Nh626	4N- N- -	4h1N- 6	1MNh	dDw
. Ghocmb	1S- 71	0S6J102	014Sh6S	0SN0S6-	0Sh00- 2	SMJ	dDw
. Ghocmb	1S- 72	- 2N2JN1	- 260- 01	- 2N61N0	- 20N01-	SMS	dDw
I dsCocmb	4J71	46h4JJJ	406NJNN	464J644	40S2h2h	1M2	dDw
I dsCocmb	4J72	1J16SN	14hhN2	14hhSN	1JS4hh	SM04	dDw
I r PCcmb	N271	22h	1N1	160	1h2	16M0S	dDw
I r PCcmb	0072	26-	200	210	2J2	12M4h	dDw
I r PCcmb	0N72	2S4	1N0	2SN	2SS	JMN	dDw
I dRdnC	2N71	1J- 6242-	1J6- 0JJ0	1JS1- S1-	1J- - 0664	2NS4	dDw
I dPr p	1S071	1NJS	10JS	1Jh2	10- 1	0M-	dDw
I dPr p	1Sh71	2S2J	1JSS	1h10	1N14	1JM2N	dDw
I nocmb	2- 72	40- 20	46hJh	46- 66	46NN4	1NS-	dDw
I TpnCTcmb	N671	116- 2-	110224	11- 40N	11J60J	1M0h	dDw
I TpnCTcmb	NN71	hh404h	1SS6226	1SSS- N1	1SSS4J2	SM0	dDw
I mPmp	- 471	26S2- 2	2J66h6	2J- 01J	2J6NN1	1M20	dDw
Ar pecmb	1Jh71	1SS6h0J0	1S- h2ShN	1SS0J6JS	1S10h16N	1MM1	dDw
Ar pecmb	1Jh72	42J2h04	4140- N0	41JS161	41N- JS0	1M44	dDw
AGsPRcmb	2S- 71	- - Sh	- 626	- - S1	- 412	JM4-	dDw
AGsPRcmb	2SJ71	04- 6	04N6	N16h	06h0	JM-	dDw
AdC	11N71	16hN6	164J2	102hJ	16h11	2M2	dDw
AdSCcmb	4071	2- 0S6N	24S- - 2	2- 6N16	2- NS02	SMM2	dDw
RpsCcmb	2- N71	66606	0S120	01J61	6h4JJ	- M02	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU14	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:40:JJ	&sTsUdP usb r:	S46q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	JhhNJ	JNNJS	JNJhh	Jh14J	1M2J	dDw
YTTr peomb	10271	- 00h6	- h260	- NJ6J	- NJ4-	1M11	dDw
YTTr peomb	10272	1N01h	1h4- 0	1hSJN	1hS01	1MMN	dDw
YTTr peomb	10671	24h66	26S- J	2J6N4	2JJ62	2M1-	dDw
YTTr peomb	10672	220Jh	2- S- 0	22h4-	22h1-	SM62	dDw
YTTpomb	Nh71	14- 2J062	14J0h- h2	1JSSJJhh	146- 6h1N	2MJ	dDw
YTTpomb	Nh72	1J4J622	1JJ4662	1JSNh4N	1J- 6411	1MN	dDw
ZdCd	6672	JhJhN	JhJJN	JhJhN	JhJNJ	SM34	dDw
ZqpdnComb	hS71	26- SS	26Jh-	2661N	26JS4	SM60	dDw
ZqpdnComb	h171	6S1N	JNh-	JNS1	JhS4	1MM4	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Cr Tusb r:	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb cCcmb	2072	Nh- JNh	NNSh41	N0- 6NJ	NN20- N	1M14	dDw
qCTb nCE	12171	126hN	1- 2J0	12J64	12N4S	2NM6	dDw
qpwr Ccd	0J72	0SSJ	0SJ2	6NNN	6hN2	1M21	dDw
Bspcmb	1- J71	0N1h6-	00J6- 1	001212	00626N	SM0S	dDw
Bspcmb	1- 071	1- 0- S0J	1- 040- 1	1- 0- 62h	1- 0- N11	SMS6	dDw
Br pEPRcmb	h71	4J24	4- hS	4666	4J20	- MSJ	dDw
Bcwb mTG	2Sh71	6h- 6h6h	601JJ4N	6N041J2	6N4222-	1M00	dDw
Bcwb mTG	2Sh72	- 26N0Jh	- 264462	- 26- 1N1	- 26J460	SMSh	dDw
Bpmb cCr	N171	0400	N- 44	061h	0N14	JMMJ	dDw
5 sob cmb	1SN71	42J	4SN	410	410	2MSS	dDw
5 sob cmb	1S671	4h- 4	40- 4	4206	464N	0M26	dDw
5 sob cmb	11171	4N26	J2SJ	4hJ-	4hhJ	- MM6	dDw
5 sPlcmb	4- 71	0S- 0NJ	0SN4hS	012N22	0SN- 66	SM04	dDw
5 sPlcmb	4471	11h1- JNh	11h00h1S	12SJ0440	11hN2hN2	SM0S	dDw
5 spenC	1271	6126hhh	62002S0	6- 10- SN	624SJSJ	1M01	dDw
5 spenC	1272	06NS1	0JNNN	00- 2S	0660S	SMMJ	dDw
5 GPhpcCr	- J71	214NN010	2JS1J41J	201SN4- 1	24J- 0J21	11MM0	dDw
5 GPhpcCr	- J72	2Sh0SJ	21404-	21JN2J	21- 424	1MM-	dDw
5 Gpmb cmb	J272	J4014	JJ10h	J- 014	J4J- 6	1MM0	dDw
5 nesPT	Jh72	- JN42	- 4Nh6	- J20S	- J- - 6	1MMJ	dDw
5 nDDr p	6- 72	21N1- 0	214640	21J24-	216SSh	SMM6	dDw
&EwDpnwcmb	1J671	6421-	6J4J-	66N4-	6JJS-	2MS1	dDw
&EwDpnwcmb	1J672	20- 2N	260- 4	26N- S	26h64	1MMN	dDw
Fpecmb	16471	4NJ6J	JS201	4Nh04	4h20S	1MM1	dDw
Fpecmb	16472	2SS- 2	1hh2N	1h00N	1hh1-	SM04	dDw
HsonPCcmb	16S71	J611h	J6- - 0	J04SS	J661N	1M21	dDw
HsonPCcmb	16S72	20SS0	261- 2	26J2-	26JJ4	1M0J	dDw
y nPb cmb	16J71	h4N4N6N	hNJSNh-	hNJ6hJ-	h0- ShSJ	2MMh	dDw
y nPb cmb	16J72	420hS00	4160- S6	424J4S4	42- SJh6	1MM6	dDw
tCocmb	11J71	6h4- 4J6	02Sh2- N	02hJ621	014h4- N	2MM0	dDw
tCocmb	11J72	hhS1N2	hN6464	hN41S-	hN6h16	SMM1	dDw
tpnC	J472	2J044Nh	2J- 42- S	2J2h14S	2J4JhJ-	SMMN	dDw
tpnC	J672	46hS60hJ	4J112h22	40102hh1	46- h0J0S	2MM1	dDw
tpnC	J072	11S6SJ1	11S- 22S	1ShN6Jh	11S264-	SMM4	dDw
KpEDTnC	N- 71	- 2J	- 1h	- 11	- 1N	2MM6	dDw
Lr so	2S671	- - JN- 10	- 261S66	- 2- N0J1	- 2N6S4J	1MM-	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20N2Sh0	20S6J11	20S6NSJ	20- 1NS4	1Mlh	dDw
Lr so	2SN71	12NSN601	12JhS- 11	12J64- 2h	126J44- 0	1N36	dDw
LdTGmb	671	24J1- 61	2J4S46-	2J- 1160	2JS066-	1M1J	dDw
9 sgOr wcmb	2472	h4hS1N	h- 4hS0	h24S64	h- Jhh6	1M4	dDw
9 sOgsOr wr	JJ72	hN6- 0S	h0N6S4	h66h1-	h002h6	1N3S	dDw
9 nPEeor Omb	h471	21SJS	2214-	21642	21612	2Ml-	dDw
9 nPEeor Omb	hJ71	1SNh6	1S0S4	111- S	1Sh1S	1M1J	dDw
9 nPEeor Omb	h671	14116	1- h41	14SN2	14S46	SM06	dDw
9 nPEeor Omb	h071	66NJ	6420	6- h-	6JS2	2M46	dDw
9 nPEeor Omb	hN71	102hJ	1060S	10h0h	1064N	1M14	dDw
u r noEb omb	1JS71	11- 42h	1124N0	11- 114	11- S1S	SM42	dDw
u r noEb omb	1JS72	- 464N	- JJh0	- 464J	- 4h6-	1Ml0	dDw
u dkr P	6S72	2SNS2	2SSS1	1hhh4	2S266	2M2h	dDw
8 GhwDGhpmw	- 172	6- 6S	641S	64S2	6- hS	SM42	dDw
8 nTswwcmb	- h72	44J4S-	4- 06SS	444- 6N	4424J0	SM16	dDw
. Ghocmb	1S- 71	01S60h0	02S4J0h	0Sh6N0S	01- 6SN2	SMM-	dDw
. Ghocmb	1S- 72	- 2SNN42	- - SJJ1S	- 2J4- 4h	- 2J62- -	1M4h	dDw
I dsCocmb	4J71	4J0J0h-	4JJ4NJ-	40S- N46	46114h0	1M0J	dDw
I dsCocmb	4J72	1404hh	1J24- S	140h- S	14h2N6	1MM-	dDw
I r P Ccmb	N271	1h6	1N0	2- S	2SJ	1SM10	dDw
I r P Ccmb	0072	1- -	120	1- S	1- S	2Ml0	dDw
I r P Ccmb	0N72	1Sh	1SN	11-	11S	2M41	dDw
I dRdnC	2N71	14S66N0N	1- hSJ0N4	14Sh1- J4	14S21- - h	SM02	dDw
I dPr p	1S071	N- 11	N411	N- S-	N- 42	SM02	dDw
I dPr p	1Sh71	0000	N4J-	0N6h	NS- -	4Ml6	dDw
I nocmb	2- 72	1- 0002	1- h142	1- N- 6S	1- N42J	SMS	dDw
I TpnCTcmb	N671	J46J2-	JJ2- J4	J44- 2J	J400- 4	SM06	dDw
I TpnCTcmb	NN71	400JN- 6	4h- 1hN-	4h2112S	4N06- 1-	1M0h	dDw
I mPmp	- 471	- 11hhS	- 2S4- J	- 21h26	- 1N110	1M6N	dDw
Ar pecmb	1Jh71	hh2060S	1S12- NN2	1S1S- 646	1SSJ10- -	1N30	dDw
Ar pecmb	1Jh72	42S- hS-	4S6hN- 1	42Jh6J-	41000h6	2M4	dDw
AGsPRmb	2S- 71	2J- 4	2- 2J	22SS	2- J-	0M16	dDw
AGsPRmb	2SJ71	J406	J2J1	J1Jh	J2h6	- N3N	dDw
AdC	11N71	Jh0hN	6ShS-	620S2	611- J	2M4S	dDw
AdSCcmb	4071	- 46J0J	- JS0Nh	- JS21N	- 4h1h4	SM0J	dDw
RpsCcmb	2- N71	J0SS-	Jh1NS	JNhh0	JN- h-	2N30	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:JS:J4	&sTsUdP u sb r :	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0- J- 1	020J0	01- JS	02J46	1Ml2	dDw
YTTr pe omb	10271	14NJS	1J6NJ	1J226	1J2J4	2N04	dDw
YTTr pe omb	10272	0J1h	0- 04	0- h0	04- S	1N8J	dDw
YTTr pe omb	10671	111NN	11SSJ	110- 1	11- SN	- M4	dDw
YTTr pe omb	10672	1J106	1JJhN	1J6N0	1J4N0	1N00	dDw
YTTpomb	Nh71	1- 6hh46S	14S04- 0S	1- N- S- 0N	1- N6NS6h	1M0	dDw
YTTpomb	Nh72	142hh4N	1441- 0J	14J4N41	1442SJ4	SNM6	dDw
ZdCd	6672	2004N1	204hhS	26h2S-	20- Nh2	1MJ	dDw
ZqpdnComb	hS71	41SJ-	4S10J	412S4	4SN11	1M6	dDw
ZqpdnComb	h171	h412	h6NN	N661	h2J4	JN04	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&biqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	2072	uJ2u44	u444aS	u46J11	u40a4a	SR31	Ol l
d. iqe C. E	12171	J1J1	JS26	461u	4a- 2	JR36	Ol l
dll p. qO	0J72	02JS	0S40	010S	01J6	1R42	Ol l
Bwldpe	1- J71	6S406a	61462S	6S1J42	6S6a00	1R12	Ol l
Bwldpe	1- 071	1S6a4- 1	1S6u6- 0	1S4aJ01	1S62J46	1RS6	Ol l
BplE&dpe	a71	- J4a	- 6- 1	- 60S	- 610	1R01	Ol l
Bdqe biG	2Sa71	66uaJa2	6aJ41u0	600uSJ1	6uS0200	1Rau	Ol l
Bdqe biG	2Sa72	- - - 6a41	- 2SaJuJ	- 200402	- 204666	1RaJ	Ol l
BlOe q p	u171	a24J	a2- 0	a22S	a2- 4	SR14	Ol l
9 wne dpe	1Su71	2J4	2- -	1a2	226	14RS6	Ol l
9 wne dpe	1S671	41a2	4406	- a60	4212	6RSJ	Ol l
9 wne dpe	11171	- S10	2aJJ	2a- u	2a0S	1R a	Ol l
9 w&Odpe	4- 71	4Ja2- 0	46J4- u	4Jaa- a	461J- u	SR04	Ol l
9 w&Odpe	4471	0u412au	0u46121	0664Ju2	00u4SSS	1R -	Ol l
9 wlr C.	1271	- 61a266	- 06u12-	- 02146J	- 0S2aJ1	2RS6	Ol l
9 wlr C.	1272	44406	44044	46- aa	4J2S6	2R S	Ol l
9 G&Olq p	- J71	214- J6aS	2J22- - 66	20Sa60Su	24JuJ2JJ	11R0-	Ol l
9 G&Olq p	- J72	21S0a4	21Ja1S	22S0- 1	21Ju12	2R S	Ol l
9 GlOe dpe	J272	462a1	46144	46J62	46- - -	SR46	Ol l
9 Or w8	Ja72	44a2u	44ua1	4JSu4	44a6u	SR2-	Ol l
9 Ot t pl	6- 72	166061	164121	16J04a	16JJ44	SRuS	Ol l
TEl t lOl dpe	1J671	u0J11	u014-	u42S0	u62u0	2R1S	Ol l
TEl t lOl dpe	1J672	- 6J- 0	- JaSJ	- 644S	- 62a4	SRa4	Ol l
Ulr dpe	16471	66Ja2	66J06	60421	66u6-	SR02	Ol l
Ulr dpe	16472	26a04	26J60	20S4u	26u6-	SRa6	Ol l
HwnO&q dpe	16S71	064J-	0u- 14	0u1- S	006- 2	1R 2	Ol l
HwnO&q dpe	16S72	- Ju2J	- 626-	- 60J1	- 620a	1R2u	Ol l
h O&e dpe	16J71	aJSuaSu	au- J411	a0uuS0J	a01S0au	1Ru2	Ol l
h O&e dpe	16J72	420J- 6J	4210202	41S- a60	41auu6u	2RSu	Ol l
&ndpe	11J71	0S- 2466	012S64J	0S61a1a	0S01600	SR6-	Ol l
&ndpe	11J72	auJ1- 4	a0u11a	a0164S	a0u2a0	SR6a	Ol l
&C.	J472	- SS122S	2aJaJu4	- S- 661-	2aaa1- a	1R2a	Ol l
&C.	J672	J- 0J24aS	J2a0- 646	J44Sa0- J	J- 011aJ0	1R 4	Ol l
&C.	J072	1- u114J	12u16uu	1- S1aa6	1- 216Sa	- Rau	Ol l
KlEt iC.	u- 71	- 14	- - 6	- 2a	- 26	- R31	Ol l
Lpwn	2S671	11Sau2S	11SJ200	1S0u4uS	1Sa0uJa	1R34	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&piqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	a2SSu6	a1a02-	a1416-	a10aa1	SR 6	Ol l
Lpwn	2Su71	4JuSaJ4	4J- 064J	4JS002u	4J421Sa	SRu1	Ol l
LqjGqpe	671	24- 1S26	261Suaa	262JJ16	2JJJu14	4R24	Ol l
y wg. pl qpe	2472	aSJJS1	ua6- u0	ua- JJu	uau4u2	SR6a	Ol l
y w. gw. pl p	JJ72	a4a1a4	a- 4140	a4a- J-	a442- 1	SRa2	Ol l
y O&Er np. be	a471	1u- J4	1u4S4	10a2a	1u22a	1R4-	Ol l
y O&Er np. be	aJ71	1S- 62	aaa6	1SSS4	1S121	2RS0	Ol l
y O&Er np. be	a671	1204u	12a4S	1- SaS	12a26	1R -	Ol l
y O&Er np. be	a071	JuuJ	6SJ1	Ja4-	Ja6S	1R42	Ol l
y O&Er np. be	au71	1J4S1	1616u	1JS- 4	1JJ- 4	- R0-	Ol l
mpOnEe qpe	1JS71	1J- u- S	1JJS40	1JS1- a	1J- SSJ	1R60	Ol l
mpOnEe qpe	1JS72	40- 00	466JJ	4JuJ1	4662u	1R64	Ol l
mqOkp8	6S72	20a6u	20a01	2u- 6u	2u1S2	SRu2	Ol l
NGOl t GOlbl	- 172	4142	44a2	42- 4	42aS	4R2-	Ol l
NOiwl l qpe	- a72	46060a	40204J	40S- 0-	40S266	SR14	Ol l
F GOnqpe	1S- 71	6a6S40J	0S644J-	0Su014u	0S- 0- Ja	SRa6	Ol l
F GOnqpe	1S- 72	- 24u1- 6	- 21- 210	- 2S10J-	- 221S- J	SR0J	Ol l
DOw. nqpe	4J71	46Saaa6	4064616	461uJJ0	4664- ua	1Ru6	Ol l
DOw. nqpe	4J72	1J2SuS	1JS14a	14a6Ju	1JS62a	SRuJ	Ol l
Dp&p. qpe	u271	2JJ	101	104	2SS	2- Ru2	Ol l
Dp&p. qpe	0072	1- S	10S	1J-	1J1	1- R S	Ol l
Dp&p. qpe	0u72	1- u	111	120	12J	1SRu-	Ol l
Dq&qOC.	2u71	14- - 2- u6	14J2S- 4-	1462u1u2	144a- 6- 0	1RS-	Ol l
Dq&vpl	1S071	4a26	J4S1	J4a-	J20-	JR00	Ol l
Dq&vpl	1Sa71	J1S1	4626	J- 4-	JS2-	0R26	Ol l
DOnqpe	2- 72	u402a	u664a	uJuS2	uJ026	1R12	Ol l
DilC. iqpe	u671	- 6120S	- 6402-	- 6- 06a	- 6- 2J4	SR4a	Ol l
DilC. iqpe	uu71	- - S61- a	- 2a4u- 1	- - 1a0a6	- - S6a22	SR u	Ol l
Db&bl	- 471	2u0444	2ua- 04	2a1aaS	2ua6S2	SR0a	Ol l
cplr qpe	1Ja71	aa- J0Ju	1SSJaS4S	1SSau224	1SS- 1SS0	SRuJ	Ol l
cplr qpe	1Ja72	41S4JS-	4142- J1	4S0a- S2	41Su01a	SR00	Ol l
cGw&&pe	2S- 71	- 1Ja	2042	26- 4	2u4J	aR0J	Ol l
cGw&&pe	2SJ71	6ua4	606S	6a1a	6uJu	1R24	Ol l
cq	11u71	- a4- -	- au- 4	4S1Sa	- a0a2	SRu6	Ol l
cqjw. qpe	4071	11- uJ1	112Ju2	11- - 40	11- 26S	SR16	Ol l
5 lw. qpe	2- u71	J121-	JSJJa	J21- -	J1- S1	1Ru4	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	& l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T &piqC. MwOlCl :	1
Twip A cqe p d Qobdpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	J172	aS242	a1621	uu6u-	aS1u2	1R6-	Qtl
Yiiplr dpe	10271	1aJ0-	2S124	2S- u-	2SS20	2RS6	Qtl
Yiiplr dpe	10272	1S16S	aa6J	a6- 1	aa1a	2R6a	Qtl
Yiiplr dpe	10671	1420J	14S66	141SS	14140	SR0a	Qtl
Yiiplr dpe	10672	10- SS	16uJS	104S1	101u4	1R01	Qtl
Yiildpe	ua71	1- 02J42a	1- J64042	1- aS01J-	1- 0- 2441	1R2J	Qtl
Yiildpe	ua72	14622- J	1446uSa	14Jaa20	14J6- 24	SR10	Qtl
Zq O	6672	aaJS-	a01JS	aau0a	auu44	1R1S	Qtl
ZdqOC. dpe	aS71	- 2uaS	- - J66	- 2- uu	- 2a4u	1R0a	Qtl
ZdqOC. dpe	a171	026S	066a	0u6a	0Jaa	4RSu	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tuwb r :J	Na
9 8r CTl wb D8 :t&:J	y h SM2.	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :uwb r :J	S4. qF UMR

NwpwbrTrp	ywl	9Nl 1	9Nl 2	9Nl -	9Nl yrwC	9Nl Fl &	5CdT
q8mb cCmb	2072	04626S	0- 0026	0- a1Sa	04S6. a	SR6	dDl
qCTb nCE	12171	24 S	21. 2	2242	22.	R0	dDl
qpl r Ccl	0 72	2- . 1	2- 1a	22a4	2- - 1	2R	dDl
Bwpcmb	1- 71	- a S41	- a00S-	- a4- 0	- a 0S0	SR46	dDl
Bwpcmb	1- 071	6a4a4a	6a4- 01	60- 1a2	6aSaSS	SR0	dDl
Br pE8mb	. 71	- S66	- 1S2	- SS4	- S 0	1R6-	dDl
Bdb mTG	2S. 71	6. S- - . 1	60S0406	6. - 24- 4	6a40060	1R0.	dDl
Bdb mTG	2S. 72	- 2 S- 6a	- 2S4. -	- 16 S	- 2S6. 0	1R2	dDl
Bpmb cCr	a171	6a6.	60a	6a6.	6a41	SR0S	dDl
9wob cmb	1Sa71	1SS	12	1- -	11.	14R-	dDl
9wob cmb	1S671	41S1	4a1a	4126	4- 4a	. R6	dDl
9wob cmb	11171	14 0	16- 6	1 - 6	1 4-	Ra2	dDl
9w8lcmb	4- 71	214 20	21- a2S	212 2a	21- 62	SR40	dDl
9w8lcmb	4471	- 06a1S	- 61116S	- 661S 4	- 6aS1S6	2R1a	dDl
9wpenC	1271	- aaa022	- a6240-	- . - S0 2	- a. - . a2	SRaa	dDl
9wpenC	1272	40. . 6	4a00-	4. 2 S	4a60-	1R S	dDl
9G8hpcCr	- 71	22. 022- -	26a142 0	2. 10. a. 6	26- 2212.	11R S	dDl
9G8hpcCr	- 72	2261aS	226 . 6	2- 1. aa	22a2	1R42	dDl
9Gpmb cmb	272	- 14-	- 102	- 1aS2	- 16 4	SR61	dDl
9new8T	. 72	- 6- 0-	- 4a1	- 6S22	- . .	1R2	dDl
9nDDr p	6- 72	6011	60004	60- . 6	6042a	SR4.	dDl
&El Dpnl cmb	1 671	a6014	a0 a6	a a4-	a6014	1RS1	dDl
&El Dpnl cmb	1 672	- 0. 44	- a6a	- 02- .	- 0S10	2Ra	dDl
Upecmb	16471	6. - - 2	0S. S0	6a400	6. 02	1R0	dDl
Upecmb	16472	2a16-	2aaa	2a2a4	2a444	1R6	dDl
Hwon8Cmb	16S71	aSS66	aS4S1	06621	0. S2.	2R6	dDl
Hwon8Cmb	16S72	- 0aa1	- 02 2	- 06 0	- 0 . 6	SRa	dDl
hn8b cmb	16 71	. a0- 00	. . - 62- 2	. a11016	. a0- . S0	SR6-	dDl
hn8b cmb	16 72	4142aa6	416. 60S	41- S 1S	41406a.	SR4a	dDl
tCocmb	11 71	026SSa-	02a614	01- 1- 64	022 a64	1R1	dDl
tCocmb	11 72	. 0- 24a	. S. 4S	. 60S-	. 6- 041	1R1.	dDl
tpnC	472	22 - 01-	22. S4a2	22a111a	220 1S4	SRa4	dDl
tpnC	672	416aS0S1	411 4006	4S. 4S126	412 a - 4	SR2	dDl
tpnC	072	1SS0S. a	. 01104	. 0S26S	. a2a44	2R14	dDl
KpEDTnC	a- 71	- 61	- .	- 1S	- 4-	aR42	dDl
Lrwo	2S671	4 Saa2	4 a2- a	4 6. 2	4 - 4a	SRa6	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 44671	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SM2.	&c8mTcnC:MwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
Lr wo	2S071	- 0- S- 2	- a1244	- a2 16	- 0a. - 1	1R 6	dDl
Lr wo	2Sa71	1001Sa1	10002. 4	10a6. 11	100a42.	SR4	dDl
LcTGmb	671	2 1 S40	2 S. 4a	2 aaS01	2 1-	1R4-	dDl
y wgCr l cmb	2472	6- 4a4	642a. 6	6 10SS	64- - 6S	1R26	dDl
y wCgwCr l r	72	6a16-	. 601	61- aS	6- S01	SRaS	dDl
y n8Eeor Cmb	. 471	121a.	126- 1	120. a	12 - .	2R 1	dDl
y n8Eeor Cmb	. 71	4SS1	44S1	41S1	4160	RSS	dDl
y n8Eeor Cmb	. 671	621a	61a	a1S	6S01	- R04	dDl
y n8Eeor Cmb	. 071	260	24 S	2642	2 a.	4R6.	dDl
y n8Eeor Cmb	. a71	6020	6600	0Sa	6a- S	- R26	dDl
u r noEb cmb	1 S71	16S22	161. 14	1 466-	1 a. - 4	2R .	dDl
u r noEb cmb	1 S72	4. 14S	4a. 06	4. 2 -	4. 12-	SR2a	dDl
u cdkr 8	6S72	2S44	2S -	2S- - a	2S4- .	SR4a	dDl
NGhl DGhpml	- 172	2- 0	2SS.	21 S	210a	aR4.	dDl
NnTwl l cmb	- . 72	- a0S2a	- a1S12	- a- . 1	- a- . . 0	SR0a	dDl
F Ghocmb	1S- 71	014S4- S	01SS. 44	0S00aa.	01S6421	SR4	dDl
F Ghocmb	1S- 72	- 22 - 2.	- 2Sa0 4	- 22- 4S4	- 21. 16-	SR2a	dDl
l dwCocmb	4 71	401- S66	461200	46a0-	4601S6	1R12	dDl
l dwCocmb	4 72	14. S11	14- 0a2	14 46	14611-	1Ra2	dDl
l r 8 Ccmb	a271	1-	a	141	12S	2 R6S	dDl
l r 8 Ccmb	0072	1 0	10S	2S-	100	1- R61	dDl
l r 8 Ccmb	0a72	1- 6	126	1- S	1- 1	- Ra	dDl
l c&dlnC	2a71	1S. . 022	1124- 1	11- 0a- - 6	112S 0- a	1R0-	dDl
l c&vr p	1S071	42S1	41S1	4- .	422S	- RS.	dDl
l c&vr p	1S. 71	41S1	4142	- . 26	4S 6	2Ra4	dDl
l nocmb	2- 72	4S624	4S2- .	4S. SS	4S aa	SRa2	dDl
l TpmCTcmb	a671	10S4 .	10- 6- 1	10SS4	101- 0a	1R14	dDl
l TpmCTcmb	aa71	1 2. S6-	1 201a6	1 . 6- 24	1 Sa a	2R 4	dDl
l m8mp	- 471	26. 6-	201244	26. a0a	20S2 -	SR 2	dDl
Ar pecmb	1 . 71	1S1- a - -	1SS- S6. .	1S2S4aS0	1S1246aS	SRa0	dDl
Ar pecmb	1 . 72	4S0S2a0	4S1. . 21	- . . 042	4S2a6 S	SR 4	dDl
AGw8mb	2S- 71	2 10	2 - 4	- 110	202-	12R	dDl
AGw8mb	2S 71	6 6.	6- 00	6S1a	6- 21	4R42	dDl
AcC	11a71	11 6-	11a14	112- a	11 - a	2R S	dDl
AcTwCcmb	4071	1- S214	12aa2	1- 1. 6-	1- S- - 4	1R21	dDl
5 pwCcmb	2- a71	- 12a.	- S 46	2. 0-	- S 24	2R	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTl wb D8 :t&:J	y h SM2.	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	172	6 2-	66011	66216	66S 4	1R14	dDl
YTTr pecmb	10271	21142	2126a	21260	21226	SR 4	dDl
YTTr pecmb	10272	1S6- a	1S14.	1S4aa	1S42	2R4S	dDl
YTTr pecmb	10671	1460	1 - 6a	144 S	14a- 1	- R22	dDl
YTTr pecmb	10672	16. S	10- a4	1004	10- 6S	2R2.	dDl
YTTpcmb	a. 71	14S2SS2.	141 S .	1416- Sa4	14112024	SR 0	dDl
YTTpcmb	a. 72	146S612	1424122	1- 2SSS	141224	- R 1	dDl
ZcCd	6672	4- 46-	4- 10	4- 26-	4- - SS	SR 4	dDl
ZcpdnCcmb	. S71	20461	2a246	2a- 2.	2aS12	1R01	dDl
ZcpdnCcmb	. 171	64a	6400	aa	62a2	R4a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:dOobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqI
d8be qFqpe	20 2	2S7J114	2SJ661y	2S61717	2SJ1S1J	SU6u	Qt l
dFiqe . Fh	121 1	2Juu246	26uyu7y	267y244	267y11S	1Uy2	Qt l
dIl pFqO	0J 2	66041	661yu	60S1J	666J1	SU62	Qt l
Bwlqpe	17J 1	2u2y46u	2u00S60	2y1Sy7S	2u024uu	1U42	Qt l
Bwlqpe	170 1	4uy6u00	J17J121	J1Juu2J	JS676Su	2Uu6	Qt l
Bplh8qpe	y 1	6120yJ	62J7y0	6261J1	62144u	1U21	Qt l
Bqe biE	2Sy 1	62271uS	61140u6	6SJuu4y	6172201	1U76	Qt l
Bqe biE	2Sy 2	2yS1J76	2u7u606	2y2u146	2uuy4J7	1UJy	Qt l
Bl. e qFp	u1 1	42S1	7y60	7uSy	7yy2	4Uy4	Qt l
3 wne qpe	1Su 1	J1u64	J1u14	J2SJ6	J1y11	SU2J	Qt l
3 wne qpe	1S6 1	024S0	061y4	07yJu	041u6	2UJ0	Qt l
3 wne qpe	111 1	6167u1	67S6u1	67Su6S	62Jy04	1U77	Qt l
3 w8Qqpe	47 1	76J4S60	70uu2u6	70JS0yy	7071SJ1	1Uu6	Qt l
3 w8Qqpe	44 1	Juy44247	617J4676	Jy270u12	Jyu4JJ64	2U2S	Qt l
3 wlr . F	12 1	26420yJ	2020742	20u0S4u	201yS62	2U60	Qt l
3 wlr . F	12 2	76S11	7u67J	70y66	70J70	7U67	Qt l
3 E8 lqFp	7J 1	2244647	22460uJ	2140uuy	22171S6	2UJJ	Qt l
3 E8 lqFp	7J 2	14y2J	141u2	17Ju2	1427S	4U07	Qt l
3 El. e qpe	J2 2	0124y7	0127y0	0SJ714	01SS6u	SUJu	Qt l
3 . r w8	Jy 2	12uSySu	12641y7	120210y	1202420	SU66	Qt l
3 . t t pl	67 2	117S02Ju	1Su6u060	11Sy60J2	11SySy26	1Uyu	Qt l
Thl t l. l qpe	1J6 1	010	660	0JS	011	JUyS	Qt l
Thl t l. l qpe	1J6 2	777	2u0	76S	720	11U76	Qt l
Glr qpe	164 1	142	2Su	1y2	1u1	1yU22	Qt l
Glr qpe	164 2	u0	J0	00	07	2SUu7	Qt l
Hwn. 8qFqpe	16S 1	Jy2	u2J	610	60u	1uUyS	Qt l
Hwn. 8qFqpe	16S 2	JS0	46S	7u0	4J1	17U41	Qt l
K. 8e qpe	16J 1	yS2J01S	y1y607S	y1J241J	y124yJ1	SUy0	Qt l
K. 8e qpe	16J 2	4S1SJ70	4SS170J	7y41y1J	7yu46Sy	SUy4	Qt l
&Fnqpe	11J 1	67S1y6y	67yy1JJ	67uu72J	67671JS	SUu4	Qt l
&Fnqpe	11J 2	uuS4Jy	u0J6u7	u0yuu6	u0u606	SU7S	Qt l
&. F	J4 2	uJyJ6y1	u1yS674	u1y6S2u	u7204J1	2U0y	Qt l
&. F	J6 2	1J2S11642	1JSS40026	14yuJu10S	1JS67y10y	SU0y	Qt l
&. F	J0 2	7y4u0uy	7u2u2Ju	7u72S61	7u6y0S7	1U00	Qt l
glht i. F	u7 1	21S	2S0	20S	22y	1JU44	Qt l
Lpwn	2S6 1	1210Su1J	126uSyJJ	12JSJJ7S	124J2477	2USu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
Lpwn	2S0 1	1SJ77SJS	11S1SSSu	1SuSSJSS	1S0u11u6	2U22	Ot l
Lpwn	2Su 1	4uu2166S	JS04421y	4yu60y72	4yu1120S	1Uy7	Ot l
LqiEdqe	6 1	22S1160	27S2474	22100J6	224S4J2	2U42	Ot l
5 wkFpl dqe	24 2	2u777S16	2u7u22y2	2uJy702S	2u476747	SU4y	Ot l
5 wFkwFpl p	JJ 2	7uyu4S0	7u1117J	70640y0	7u2400y	1U00	Ot l
5 . 8hr npFbe	y4 1	yJ12711	y0S7740	y6210J2	y61240S	1USS	Ot l
5 . 8hr npFbe	yJ 1	170ySSu1	14114247	14S1uSyJ	17y0417y	1U1y	Ot l
5 . 8hr npFbe	y6 1	1J2SJyy1	1J711616	1J272yy0	1J2JS2S1	SU76	Ot l
5 . 8hr npFbe	y0 1	u7y1444	u6Ju22u	u647yS7	uJ64J2J	1U0J	Ot l
5 . 8hr npFbe	yu 1	210S0JJy	22u646y2	27146S02	22J02004	7U7u	Ot l
mp. nhe dqe	1JS 1	7SS	2u0	1uS	2J6	2JU04	Ot l
mp. nhe dqe	1JS 2	6S	67	70	J7	20U24	Ot l
mqOvp8	6S 2	7JS146	7427u4	74J47u	74JyyS	1U17	Ot l
NE. l t E. Ibl	71 2	1y0u1	2Sy04	1y014	2S1J6	7UJ2	Ot l
N. iwl l dqe	7y 2	uyy0y17	uuu06yJ	u6uyJu1	uuJu7y6	1U06	Ot l
9 E. ndqe	1S7 1	6S417y4	61y2J00	61J77yy	612y127	1U2u	Ot l
9 E. ndqe	1S7 2	20uy002	2uSyy0S	2u61706	2u2S707	1U71	Ot l
DOwFndqe	4J 1	4Syu262	4271220	4SJJS00	412u1uy	2U22	Ot l
DOwFndqe	4J 2	1760yu	17J062	174u67	17JuSu	SU01	Ot l
Dp8pFdqe	u2 1	4J40u	46y1u	4616u	461uu	1UJ6	Ot l
Dp8pFdqe	00 2	1417	176S	1JS7	1426	JUSu	Ot l
Dp8pFdqe	0u 2	4027	4012	4u6S	406J	1U07	Ot l
Dq8Q F	2u 1	202S2202	2u7S6y04	2u11J762	20u04u6y	2U12	Ot l
Dq8pl	1S0 1	7742uuS	7761u7J	7746264	77JS726	SU7S	Ot l
Dq8pl	1Sy 1	72S7y42	7107404	722J6Jy	72S1S2J	SUu2	Ot l
D. ndqe	27 2	JS0yS64J	JS2uJ460	JS1212yS	JS7yy174	SU6y	Ot l
Dil. Fidqe	u6 1	1uuJuu7J	1y202S22	1u04y40u	1uy6S112	1U4J	Ot l
Dil. Fidqe	uu 1	161uuy404	16yS2440J	1642777u7	16JS4y111	2U2S	Ot l
Db8Vl	74 1	J4uu42	JJ1S0u	J4uS76	J4y71y	SU2y	Ot l
cplr dqe	1Jy 1	y2Ju4y2	y7J77y0	y7664uy	y726126	SU67	Ot l
cplr dqe	1Jy 2	7uySu60	7uS6y0y	7y46u10	7uu1JJ4	1Uu1	Ot l
cEw8Bqe	2S7 1	2y77uJy	2y6Jyu0	2yuJ60y	2y61u42	SUuu	Ot l
cEw8Bqe	2SJ 1	0Sy1uSu	011477y	0S10222	0S044J6	SU02	Ot l
cqF	11u 1	217S670	22171yu	2144766	2162074	2USJ	Ot l
cqwFdqe	40 1	76u626J	7u766u0	70266S7	704yuJ1	2USu	Ot l
RlwFdqe	27u 1	1SJy2661	1S66uu1u	1S0S6Ju0	1S6J6S22	SUJ4	Ot l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 3 - S24	&Fl iIbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T :a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
- wFwndpe	J1 2	JJu46u	J40616	JJJ2S2	JJ7062	1US1	Qt l
Yiiplr dpe	102 1	210	2y2	10J	22u	2JUy6	Qt l
Yiiplr dpe	102 2	1S6	0u	111	yu	1uU1y	Qt l
Yiiplr dpe	106 1	17472	14177	170J0	17004	2UJJ	Qt l
Yiiplr dpe	106 2	1J706	1J7y2	1J672	1J460	SUy7	Qt l
Yiildpe	uy 1	11J44206	1107y7J4	110u7J14	116uyS4u	1USy	Qt l
Yiildpe	uy 2	12S1J7J	11uSuSJ	11yu7yy	11y7JuS	SUy4	Qt l
ZqFO	66 2	12uSJJJ	12Ju17S	126u6u0	126y124	SUuu	Qt l
ZqQ Fdpe	yS 1	446y701	44yS1S7	4674660	4J717u1	1Uyy	Qt l
ZqQ Fdpe	y1 1	y07yy2	yuS4u4	yyy1u0	yu4JJ4	1U77	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
q8mb c mb	2072	14:	242	- S0	2- 2	- : U 1	dDl
q. Tb C. y	12171	11: a	14h2	16- -	142a	10U$a	dDl
qpl r . cl	0: 72	6	1-	12	1S	- 6U64	dDl
Bwpcmb	1- : 71	- Sa	- : S	142	260	41U 4	dDl
Bwpcmb	1- 071	: - -	: 60	- 42	4a1	2: U20	dDl
Br py8&mb	h71	101	164	116	1: S	1hUa-	dDl
Bdl b mTE	2Sh71	6: - aS6-	62h6a44	641S06h	641: 22:	1Uaa	dDl
Bdl b mTE	2Sh72	- Shh12-	- S66264	- Sa- a40	- Sa- S0a	SU -	dDl
BpCb c r	a171	- 610	- 0- 4	- ah2	- 04a	- U6a	dDl
3 wob cmb	1Sa71	- -	21	- -	2h	24U0:	dDl
3 wob cmb	1S671	- 460	- 460	- a: 1	- : h:	6U16	dDl
3 wob cmb	11171	46:	404	4- -	4: 0	4U0:	dDl
3 w8lcmb	4- 71	6: 4	0ah	41:	61h	- SU 0	dDl
3 w8lcmb	4471	42aS0	42h- a	- 0h0S	412- a	6Ua6	dDl
3 wpeC.	1271	222S0S0	21a: - S6	21ah4- h	21ha4a4	SUaa	dDl
3 wpeC.	1272	26016	26S24	20S10	26: a6	1Uh2	dDl
3 E8Cpc r	- : 71	102S: : h	1664- S6	1612101	166: 60h	- U2:	dDl
3 E8Cpc r	- : 72	11SS4	1S: 46	1S446	1S66:	2U0h	dDl
3 EpCb cmb	: 272	111S	1100	1110	11- :	- U24	dDl
3 Cew8T	: h72	- 0	14S	140	1Sa	: 0U22	dDl
3 CDDr p	6- 72	1h0-	2444	2: 40	2- 21	1- U10	dDl
&yl DpCl cmb	1: 671	a	a	10	11	4- U 4	dDl
&yl DpCl cmb	1: 672	0	S	S	2	10- U21	dDl
Fpecmb	16471	: a	: a	2:	40	4SU0:	dDl
Fpecmb	16472	2S	2-	2-	22	aU6:	dDl
GwoC8c mb	16S71	h2	a-	0:	a-	1SU$S	dDl
GwoC8c mb	16S72	hS	1: S	1S0	116	26UaS	dDl
HC8b cmb	16: 71	h1S06a4	h- - h: : 1	ah- Sh11	h126S4h	2U2:	dDl
HC8b cmb	16: 72	- h4h11h	- hh6- 14	- ha1Sh-	- h0: : Sh	SU61	dDl
t. ocmb	11: 71	601a204	6: : 4224	6: 1- 66a	6: h: - ah	1U64	dDl
t. ocmb	11: 72	h140h6	h- - 12h	h20: : a	h2: 161	1U$2	dDl
tpC.	: 472	: 60	hS6	ha-	a1h	20U$0	dDl
tpC.	: 672	0Sh1	12- 00	14a00	1144h	- 4U02	dDl
tpC.	: 072	2ah	- : 6	410	- : 4	1aU$0	dDl
KpyDTC.	a- 71	2- h	201	2: :	2: :	6U 0	dDl
Lr wo	2S671	260a	26- 4	2- SS	2: - 0	aU14	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wo D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wo D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Lr wo	2S071	2: 11	2- 2-	1011	21a2	1hU10	dDl
Lr wo	2Sa71	11S14	1S042	h1- 1	1S2h:	hUah	dDl
LdEmb	671	22: S- h2	2- 16a22	22a0S06	22a406-	1U46	dDl
5 wg. r l mb	2472	: 0:	1: Sh	24a4	1: 2-	62U6h	dDl
5 w. gw. r l r	: : 72	11S	24S	4: -	26a	64U04	dDl
5 C8yeor . mb	h471	1hSS	1h10	16SS	1aS6	hUa0	dDl
5 C8yeor . mb	h: 71	- 4Sh	4Saa	2S2:	- 104	- - U12	dDl
5 C8yeor . mb	h671	- 206	- 242	22Sh	2hSh	2SUa:	dDl
5 C8yeor . mb	h071	1: 60	14a-	1- 10	14: 6	aU0:	dDl
5 C8yeor . mb	ha71	446a	: S1h	- S42	4106	24U42	dDl
u r Coyb mb	1: S71	0	2S	20	1a	: 0U20	dDl
u r Coyb mb	1: S72	-	S	-	2	a6U6S	dDl
u dkr 8	6S72	4S	6S	0-	: a	2hUS4	dDl
NEC DECpm	- 172	12:	2: S	242	2S6	- 4USS	dDl
NCTwl mb	- h72	1- 4- 1	1- - 6:	1- 14S	1- - 12	1U1:	dDl
9 ECo mb	1S- 71	6: 422: 2	66: a142	6: S16- 6	6: 60- 4-	1U24	dDl
9 ECo mb	1S- 72	- S- a2S0	- 1aaS1-	- S1142a	- S0h216	- USh	dDl
l dw. o mb	4: 71	4S2: h41	4S6- 0Sa	41- 1: 1S	4S0- 02S	1U- 1	dDl
l dw. o mb	4: 72	1- : : a4	1- 442h	1- 64S1	1- : 401	SU0-	dDl
l r 8 . mb	a271	71-	741	14	71-	72S6U- 2	dDl
l r 8 . mb	0072	S	S	S	S	SUSS	dDl
l r 8 . mb	0a72	2-	22	16	2S	1aU62	dDl
l 8dC.	2a71	1ha21h	1hS4: h	1ah22:	1h26- 4	2U-	dDl
l 8vr p	1S071	4- -	- - -	- 60	- 0a	1- U4a	dDl
l 8vr p	1Sh71	- 42	- 60	- Sa	- - h	aU64	dDl
l Co mb	2- 72	40haS	4h2h6	4a0a2	4a6a6	1U- 6	dDl
l TpC. Tmb	a671	242:	24: h	14: h	2114	26Ua0	dDl
l TpC. Tmb	aa71	2120-	1: 641	h: : S	1: 4aa	- 0Ua:	dDl
l m8mp	- 471	2h44: a	2h42h6	2h666a	2h: 14S	SU4:	dDl
Ar pe mb	1: h71	h- 1: 42a	h202S: :	h14- 4: h	h24- 640	SUh0	dDl
Ar pe mb	1: h72	- 00- aS-	- aa2: a2	- h24a46	- a6S41S	2USS2	dDl
AEw8mb	2S- 71	2S60	1hSh	14- -	1aS-	1aU2h	dDl
AEw8mb	2S: 71	- ha4	4Sh-	- 410	- a- 1	hU40	dDl
Ac	11a71	- a6h	142:	142:	224S	6- USS	dDl
AdTw. mb	4071	a0:	0a-	410	6h2	- : USS0	dDl
Rpw. mb	2- a71	1S- -	1: 10	00:	11Sh	- - Uha	dDl

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LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Vw. wocmb	: 172	- -	40	h-	: a	: 4U-	dDl
YTrpecmb	10271	42	: S	: a	: S	16U60	dDl
YTrpecmb	10272	- h	10	2a	2a	- hUhh	dDl
YTrpecmb	10671	11h2	1- : a	1S2:	11h2	1- Uhh	dDl
YTrpecmb	10672	h: 4a	1S6hh	1S- 01	1S2S6	: la1	dDl
YTpcmb	ah71	11hSh: h0	11a2hhh-	11h126ah	11aa4Sh-	SUh	dDl
YTpcmb	ah72	12S40a-	122hah0	1220aa1	122Sa: 4	1U14	dDl
Zc d	6672	16-	1h0	26-	2Sa	24U1	dDl
ZqpdC. cmb	hS71	h0:	1S10	0- -	hSa	16la4	dDl
ZqpdC. cmb	h171	142	210	160	10:	21la2	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	a: 2611	a4aS6-	a- ah16	a46: - S	SMd2	dDl
qCTb nCE	12171	4406	: 426	40: h	4aa0	hMla	dDl
qpl r Ccl	0: 72	2SS2	2S0-	1hah	2S22	2M24	dDl
Bwpcmb	1- : 71	41212h	4Sa141	41611-	41212a	SM10	dDl
Bwpcmb	1- 071	0- : - h2	0224Sh	0- : 402	0- 1Sh1	1M8-	dDl
Br pE8mb	h71	- 6hS	- 04S	- a2a	- 0: -	1Md:	dDl
Bdl b mTG	2Sh71	60aha- 0	662S- 26	6- aah00	6: hh01-	- M8:	dDl
Bdl b mTG	2Sh72	- S62: - h	- S6S: Sa	- 1224a1	- Sa1a4-	1M14	dDl
Bpmb cCr	a171	h4S-	111- S	1Sa21	1S4: 1	aMd1	dDl
5 wob cmb	1Sa71	1Sa	1S4	h2	1S1	aM16	dDl
5 wob cmb	1S671	42Sh	- h- 4	4SSh	4S: 1	- M11	dDl
5 wob cmb	11171	1S62	1S: S	h0S	1S20	4Md:	dDl
5 w8lcmb	4- 71	- 1: 26S	- 1a- 6-	- 1a: 4:	- 10- ah	SMla	dDl
5 w8lcmb	4471	: 24S- a4	: - 12S: 2	: - 06: 20	: - Sh6: 4	1M2a	dDl
5 wpenC	1271	2h644: 0	2ha0: hh	2h: 2h40	2h6a- - 4	SMlh	dDl
5 wpenC	1272	- 6112	- 0- hS	- 0Sa1	- 6a61	1Md1	dDl
5 G8hpcCr	- : 71	112- 6- - 0	146- 44- 2	10- 14461	14- h: S00	21M16	dDl
5 G8hpcCr	- : 72	1: : 664	1620a-	16: : 64	161- - 0	- M16	dDl
5 Gpmb cmb	: 272	4141S	41- 6S	4S6S4	4112:	1M1S	dDl
5 new8T	: h72	- a0- 6	- 061-	- aS- 4	- a12a	1M4h	dDl
5 nDDr p	6- 72	: 026a	: 6S- 4	: : : aa	: 62h0	1M:	dDl
&El Dpnl cmb	1: 671	1S4: 1:	1S: 222	1Sa: a2	1S61S6	2M8:	dDl
&El Dpnl cmb	1: 672	462hS	44a- a	4: 41S	4: : 1-	1M01	dDl
Fpecmb	16471	a: - 24	a0462	a64S:	a6- h0	1M24	dDl
Fpecmb	16472	- : 2- S	- 40- 2	- 4- : a	- 400-	1M26	dDl
Hwon8Ccmb	16S71	hh02-	hhh16	hh- : 2	hh664	SM2h	dDl
Hwon8Ccmb	16S72	46h66	46a- 2	46- 44	46014	SM0S	dDl
y n8b cmb	16: 71	h646: S1	h: 2- 10h	h2S: 412	h4: a- 64	2M41	dDl
y n8b cmb	16: 72	- ha64- 2	4S: 0aS6	4S0: 6: S	4S- hh62	1M10	dDl
tCocmb	11: 71	0SSh- : -	6a12040	6- a46h6	60- : : hh	4M04	dDl
tCocmb	11: 72	h1: - 6a	h26441	h- 4046	h2: : 1a	1M8:	dDl
tpnC	: 472	244a: 0-	24S4- 06	2- : 44- 2	24S2461	1M16	dDl
tpnC	: 672	4- 6h: 1- S	4- 261aa0	4- 1a: h4-	4- - aSha0	SM0-	dDl
tpnC	: 072	1S- a221	1S4S: 12	1S2: 1aa	1S- 4641	SMdS	dDl
KpEDTnC	a- 71	- 61	- - h	- - 6	- 4:	- Mlh	dDl
Lr wo	2S671	1h: aa4	1hh- : 4	1h: 12-	1h60a0	1Ml:	dDl

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LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdCmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S071	1: 0hSa	1: 0062	1: 6SSh	1: 0226	SM60	dDl
Lr wo	2Sa71	0: 1aa-	0: 0hhh	0: S201	0: - - a4	SM4	dDl
LdTGmb	671	240: - ah	2- 00- ha	2- 64- 1:	24S: 0S1	2M2	dDl
9 wgCr l mb	2472	6S1a0S	: h1- : 0	: a0- 1a	: h- : 1:	1M20	dDl
9 wCgwCr l r	: : 72	: 1000h	: Sh: : 4	4h00h4	: Sa- 06	1M1a	dDl
9 n8Eeor Cmb	h471	11h- S	12Sh0	1260-	122- -	- M1a	dDl
9 n8Eeor Cmb	h: 71	- 0h2	- 6Sh	- h10	- 00-	4M11	dDl
9 n8Eeor Cmb	h671	616a	6Sa:	: h26	6S6S	2M8-	dDl
9 n8Eeor Cmb	h071	22: S	26a4	2- h2	2442	hM8:	dDl
9 n8Eeor Cmb	ha71	6220	60S2	0h2a	6h: 2	12M0-	dDl
u r noEb cmb	1: S71	1h0: 02	2S2244	2S21S6	2SS641	1M-	dDl
u r noEb cmb	1: S72	62Sa0	6S462	6Sh: a	6116h	1M6	dDl
u cdkr 8	6S72	2- 44-	22ha:	22a62	2- Sh0	1M-	dDl
NGhl DGhpm	- 172	12a-	1460	11a-	1- 11	1SM6	dDl
NnTwl mb	- h72	- 2a041	- - 1Sh6	- 20h2:	- 2h2: 4	SMS	dDl
. Ghocmb	1S- 71	60a21aS	60S6- S6	64- 0- - 2	6641h- h	2M0-	dDl
. Ghocmb	1S- 72	2hhS0h2	- 1S12: 2	- 1- haa1	- S00- Sa	2M1	dDl
l dwCocmb	4: 71	4: 11h4h	44- h- 62	420- - a0	44Sa2- -	2M00	dDl
l dwCocmb	4: 72	1- h2a2	142664	1- h4a6	14S400	1M:	dDl
l r 8 Cmb	a271	110	1: 6	1- 4	1- 6	14M-	dDl
l r 8 Cmb	0072	21S	2S-	21S	2Sa	1M4:	dDl
l r 8 Cmb	0a72	10:	16h	144	16-	1SM1	dDl
l 8dnC	2a71	144: - a26	14: : hh20	144S2S- a	14401h- 1	SM6	dDl
l 8vr p	1S071	1- 60	1- 0:	1- Sa	1- : S	2M0h	dDl
l 8vr p	1Sh71	10: h	110:	1- h2	1442	2SM46	dDl
l nocmb	2- 72	: h2S0	: : - h0	: 6061	: 0122	- M1a	dDl
l TpnCTcmb	a671	14210h	14: 141	146S: 2	1444: 0	1M4S	dDl
l TpnCTcmb	aa71	12- : 16-	120a01h	1261h46	12: a6Sh	1M0:	dDl
l m8mp	- 471	2h: 0- 2	2aa: 12	2a4S6S	2ah4- :	2M84	dDl
Ar pecmb	1: h71	hhh- 111	h06hSa4	h4- S22:	h0- SaS6	2M11	dDl
Ar pecmb	1: h72	- h144Sa	4S: 22h4	4SS0- - S	- hh1- 44	1M06	dDl
AGw8mb	2S- 71	4206	4- h-	4- 1a	4- 2h	1M0	dDl
AGw8mb	2S: 71	1S- 6-	1S: S:	1S2S4	1S- : 0	1M4:	dDl
AdC	11a71	1S046	1Sh46	1S601	1S0aa	1M2	dDl
AdTwCmb	4071	1S0- a:	1S- 6: 0	1S41: 4	1S: S6:	1M1-	dDl
RpwCmb	2- a71	2h01h	- SS61	- Sa- S	- S2S-	1M1a	dDl

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	0S0h4	01S1:	6h- 0S	0S- h-	1M20	dDl
YTTr peomb	10271	26h2S	202h:	260a6	20SSS	SM1a	dDl
YTTr peomb	10272	1262-	12: - h	120a4	1264h	SM1a	dDl
YTTr peomb	10671	1a1: :	1a0ah	1h- hS	1a00a	- M2h	dDl
YTTr peomb	10672	1a: aS	1a2- :	1h2h2	1a0S2	2M1a	dDl
YTTpomb	ah71	1- 6ahhS4	1- : 4S26h	12hha2: 0	1- 4Sh400	2M01	dDl
YTTpomb	ah72	14SS1- h	1424aa6	14S626a	141S4- 1	SM11	dDl
ZdCd	6672	2haa:	2h4ha	2h: 20	2h6- 0	SM0-	dDl
ZqpdnComb	hS71	266- 4	20ah:	2aS0h	20: - 6	2M46	dDl
ZqpdnComb	h171	64: 2	6420	6- a:	6421	SM12	dDl

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb dCmb	2072	- 66h01	- 01: 4:	- 6a44S	- 6aha:	SM0-	dDl
qCTb nCE	12171	4S42	42h2	4: 1a	42a4	: M:	dDl
qpl r Cdl	0: 72	1- a4	141-	1: S4	14- 4	4M0	dDl
Bwpcmb	1- : 71	26Sa6-	26412:	2: a4S:	2611- 1	1M1S	dDl
Bwpcmb	1- 071	4: 2aSS	40- Sa0	46h: Sh	46: 1- 2	2M-	dDl
Br pE8mb	h71	21SS	2S00	2Sh4	2ShS	SM6	dDl
Bdl b mTG	2Sh71	60: 11- a	6a6h- S:	66hhSh1	600- 10a	1M2h	dDl
Bdl b mTG	2Sh72	- 11h- S0	- 1464: S	- 241S2:	- 16ah2a	2M82	dDl
Bpmb dCr	a171	601a	6: 4-	6400	6: 0h	1M1S	dDl
5 wob cmb	1Sa71	110	1- a	101	142	1hM2h	dDl
5 wob cmb	1S671	4S42	- 026	41a4	- ha4	: M4h	dDl
5 wob cmb	11171	2100	2S: 1	2S61	2Sh0	- M-	dDl
5 w8lcmb	4- 71	1Sa6aS	111a6-	112SS4	11Sa4h	1M0S	dDl
5 w8lcmb	4471	1hS2: 12	1h4Sh6:	1h- - 4h:	1h2: 6: 0	1M86	dDl
5 wpenC	1271	400ah62	: S: - - - h	: 2Sa411	: S1- : 01	4M4	dDl
5 wpenC	1272	6- 0aS	62006	62: 42	6- S- 2	1M84	dDl
5 G8hpdCr	- : 71	100S- 60S	21ah2- S:	2- hSa6: -	2116a2Sh	14M1:	dDl
5 G8hpdCr	- : 72	1h2: 1a	2S24- 4	2S: a22	2SS2: a	- M4:	dDl
5 Gpmb cmb	: 272	22S44	22S1S	22- - 1	2212a	SM4S	dDl
5 new8T	: h72	1a14a	1hSaS	1h1h-	1aaS0	- M8:	dDl
5 nDDr p	6- 72	a0126	a6046	aaSS1	a02h1	SM04	dDl
&El Dpnl cmb	1: 671	: 41h4	: : : 66	: 6: 4:	: : 4- :	2M1-	dDl
&El Dpnl cmb	1: 672	2- S60	2- h6:	2461h	2- aa4	- M26	dDl
Fpecmb	16471	- h6a:	4S20S	4SS11	- hhah	SM0-	dDl
Fpecmb	16472	10S6a	16a14	10- 02	10Sa4	1M6-	dDl
Hwon8Cmb	16S71	4a- - S	4h- a4	: S10a	4h2h0	1M4a	dDl
Hwon8Cmb	16S72	2- : : a	2- : 61	2- 04a	2- 622	SM46	dDl
y n8b cmb	16: 71	h: - 6haS	h61a24a	h44SS6:	h: - 1064	SM14	dDl
y n8b cmb	16: 72	4S42- a2	414S: 00	42S604-	412hhS1	2M8S	dDl
tCocmb	11: 71	66aa: 6-	6a04S42	6a1a2ha	60h- 6- 4	1M4S	dDl
tCocmb	11: 72	h2ha1h	h4a- : :	h0S: h:	h4h: hS	2M1:	dDl
tpnC	: 472	11: 2a0a	1144444	1101h1h	11: 6414	1M22	dDl
tpnC	: 672	21ah- - a2	224S0624	22612: - 0	22- S4: 1:	1M66	dDl
tpnC	: 072	: 2- - SS	: 204- 1	: 2a- 2:	: 26- : 2	SM1	dDl
KpEDTnC	a- 71	2h1	2h4	- 1h	- S1	: M8:	dDl
Lr wo	2S671	01: 6h0	020616	02S: 44	0212a6	SM4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&c8mTcnC UwdTnpJ	1
&wTr i Adb r qdCmpr o J	2S2- 7S0712 1: J14J1a	&wTwUc8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S071	: hS46:	61h062	61Sh4S	6S0S: 6	2M4a	dDl
Lr wo	2Sa71	2aS- : 06	- S1S02S	2a6622a	2ah- : Sa	- M60	dDl
LcTGmb	671	2404S0:	24: Sa01	244S0h2	24: : 246	SM0S	dDl
9 wgCr l cmb	2472	24h: a1	24h11-	2: 1200	24hhhS	SM46	dDl
9 wCgwCr l r	: : 72	- 4: h62	- : 1242	- : 4416	- : S: 4S	1M22	dDl
9 n8Eeor Cmb	h471	ha62	1S221	h00h	hh: 4	2M6	dDl
9 n8Eeor Cmb	h: 71	- 060	- hSh	41Sh	- h2a	4M0	dDl
9 n8Eeor Cmb	h671	: : S1	: h1a	: 6- :	: 6a:	- M0:	dDl
9 n8Eeor Cmb	h071	2- - 4	2: 0:	2: : h	24ah	: M42	dDl
9 n8Eeor Cmb	ha71	6S: 2	6- - :	62S2	61h6	2M2h	dDl
u r noEb cmb	1: S71	hh6a2	1S264-	1S14a0	1S1201	1M40	dDl
u r noEb cmb	1: S72	- 1: 2S	- Sh- 2	- 2S12	- 14aa	1M02	dDl
u cdkr 8	6S72	0a42	066h	06: 2	0021	1M6	dDl
NGhl DGhpml	- 172	41- 4	4: 06	4- : 1	4- : 4	: M80	dDl
NnTwl cmb	- h72	2022- -	20aah2	2a2400	200a6a	1M40	dDl
. Ghocmb	1S- 71	6a: h42-	6h21: S2	6h- 26h6	6hS4: 41	SM0	dDl
. Ghocmb	1S- 72	- 1- 1- : 0	- 1- 424:	- 116210	- 12020-	SM1	dDl
l dwCocmb	4: 71	4- h1: - 1	4444: 4S	4- hhh: 2	4412SSa	SM0:	dDl
l dwCocmb	4: 72	14SS2a	144SS:	14: 2a0	14- 1S0	1M12	dDl
l r 8 Ccmb	a271	1SS	h1	116	1S2	12M0	dDl
l r 8 Ccmb	0072	1S-	11S	h0	1S-	6M4:	dDl
l r 8 Ccmb	0a72	0S	00	h1	0h	1- M4a	dDl
l c&dnC	2a71	1S6h11Sh	1Shaa262	1Sh46122	1Sa0: 164	1M4a	dDl
l c&vr p	1S071	4160	- h10	4- Sh	41- 1	4M4S	dDl
l c&vr p	1Sh71	- h: h	4- : 1	41Sh	414S	4M0a	dDl
l nocmb	2- 72	: : - h0	: 4h12	: ah01	: 6420	- M4-	dDl
l TpnCTcmb	a671	14h444	1: : 6hh	1: 0101	1: 41S4	2M06	dDl
l TpnCTcmb	aa71	1- 120a0	14S160-	142S6: -	1- 0a- 01	4M4a	dDl
l m8mp	- 471	2h- 0: S	2a: 42h	2aa- 61	2ah1aS	1M46	dDl
Ar pecmb	1: h71	h02h: 0-	h6- 1h4a	h66- S64	h604a62	SM12	dDl
Ar pecmb	1: h72	- hS0: 1S	- hS04- 0	4S1: 66h	- h4- : - h	1M4a	dDl
AGw8cmb	2S- 71	21a4	22Sh	210:	21ah	SM0h	dDl
AGw8cmb	2S: 71	4hh-	: Sh-	4hS1	4hh6	1M12	dDl
AcC	11a71	2Sa: S	2Sha-	22S- :	212ah	- M8:	dDl
AcTwCcmb	4071	1S- 4a1	1Sa044	1S062S	1S661:	2M0S	dDl
RpwCcmb	2- a71	: - SS-	: 210:	: - 60-	: 2h: S	1M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- 1	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	: 172	- 1h0h	- 1441	- 1a46	- 10: :	SMda	dDl
YTTr pecmb	10271	1ShS:	112- S	11S40	11S6S	1M40	dDl
YTTr pecmb	10272	: 4hS	: 44S	: 6S1	: : 11	1MS	dDl
YTTr pecmb	10671	a: h:	a42a	0h: -	a- 2:	4M8S	dDl
YTTr pecmb	10672	1- ah6	14Sh0	14- - 6	1411S	1M6	dDl
YTTpcmb	ah71	12a: S044	120ah62a	12h00: a4	12a026: 2	SM04	dDl
YTTpcmb	ah72	1204hah	12h6442	1- 24S02	12ha: S1	1Mdh	dDl
ZdCd	6672	: hS16	: h: - 1	6S104	: h: 04	SM10	dDl
ZqpdnCcmb	hS71	2S104	22- 44	2S- : 0	2Sh: a	: M04	dDl
ZqpdnCcmb	h171	44a4	40S1	: 1Sh	406:	6M06	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tu wb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	2J1J0	2JSJ-	2J10JS	2J12	SM26	dDl
qCTb nCh	12171	- 2SS	- 242	- 6JE	- - 60	0M-	dDl
qpl r Ccl	0J72	116J	11E6	11 S	11 1	1M1	dDl
Bwpcmb	1- J71	16 - 4E	10240J	10S6	10SJS4	1M21	dDl
Bwpcmb	1- 071	2E E-	- SSJJ0	- SSES1	- SS1- 2	SMJ	dDl
Br ph8mb	E71	162E	1006	16E4	16EE	4MJ	dDl
Bdl b mTG	2SE71	664460E	6 J 1 4	6 J61- 2	60 6- - 2	1M1	dDl
Bdl b mTG	2SE72	- 224- - S	- 10JE1	- 220 J	- 2SE- 6E	SMES	dDl
Bpmb cCr	171	J2- 4	J4J1	JE J	JJJ0	6MEJ	dDl
5 wob cmb	1S 71	01	121	E2	E4	26M0S	dDl
5 wob cmb	1S671	4226	4S06	- 26	4S42	JM8S	dDl
5 wob cmb	11171	1JJ6	164	164	1610	- M26	dDl
5 w8lcmb	4- 71	JE- 0E	JE -	JE- S4	JEJS0	SM4E	dDl
5 w8lcmb	4471	E 0240	1S1S JS	1SS- - 41	1SSS40E	1M21	dDl
5 wpenC	1271	2EES 2	- S0 6 6	- S6422-	- S44J0E	1MJ	dDl
5 wpenC	1272	- 02 1	- 0- S6	- 6E E	- 01E2	SM40	dDl
5 G8hpCr	- J71	2S004- 1E	2J1- - 0S6	2012661E	24- 44 1	1- M4	dDl
5 G8hpCr	- J72	21S 1S	21JJ02	22S4- -	21J6SJ	2M4-	dDl
5 Gpmb cmb	J272	1 S6	1 2J2	1 16	1 624	1M0-	dDl
5 new8T	JE72	16- 0-	1J JE	1J J6	16S2E	1M6	dDl
5 nDDr p	6- 72	JE0EE	J 6E	JE1S6	JE2S1	SME4	dDl
&hl Dpnl cmb	1J671	4ES41	4ES 2	4E1E1	4E1SJ	SM16	dDl
&hl Dpnl cmb	1J672	2S462	1EJ-	2S22E	2SS06	2MIE	dDl
Fpecmb	16471	- - E20	- 4 - S	- 4 S	- 4J46	1MJ	dDl
Fpecmb	16472	1- J60	14111	1- EE4	1- E1	2M86	dDl
Hwon8Ccmb	16S71	42J20	42- 6S	4- S4J	42644	SM4	dDl
Hwon8Ccmb	16S72	2S- S2	1EE12	2S1EE	2S1-	1M8S	dDl
y n8b cmb	16J71	E- - 2 4S	E- J- 226	E4J2602	E- 0EJ0E	SM0	dDl
y n8b cmb	16J72	416S6SS	4SS1JSJ	411ES21	4SE- 0SE	2M82	dDl
tCocmb	11J71	60EJJ4J	6EJ62J	6 0 160	6 066J0	1M10	dDl
tCocmb	11J72	E0E E-	E- 62- S	E4E- - 4	EJJ1J2	2MJ	dDl
tpnC	J472	J- JS6	4112E	- JES6	4- J1-	1M80	dDl
tpnC	J672	16- - 044-	16- 06614	164- JS4	16- - S- J	SMS	dDl
tpnC	J072	- EEJ1	- J0 6	- E6S0	- 44	SM0S	dDl
KphDTnC	- 71	- S2	- SJ	2E4	- SS	1ME0	dDl
Lr wo	2S671	41E- 1-	42426S	41E41	42SEE0	SM00	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tuwb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :uwb r :a	SJ6q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 rwC	5 NI . l &	RCdT
Lr wo	2S071	- 40S- 1	- J6SJ2	- J12SJ	- J142E	1M2	dDl
Lr wo	2S 71	164S224	1604- - 6	16JSJ0	16JJS46	1M36	dDl
LdTGmb	671	241E2EE	2404262	2J4JS4-	240EJ- J	2M4	dDl
9 wgCr l mb	2472	1J6SS6	1J 4JJ	1J0SJ0	1J0102	SM0	dDl
9 wCgwCr l r	JJ72	- J1S1	- 4E 2J	- 4ES2J	- 4EEJ6	SM2E	dDl
9 n8heor Cmb	E471	01J2	0200	6 J	01SJ	2M2	dDl
9 n8heor Cmb	EJ71	- 6J1	- 2E2	- S- 4	- - 26	EM2	dDl
9 n8heor Cmb	E671	464-	4J- 4	46S1	4JE-	1M1E	dDl
9 n8heor Cmb	E071	22E2	21JS	21JE	22SS	- M61	dDl
9 n8heor Cmb	E 71	J6- J	J- J1	J26	J41	- MJ	dDl
ur nohb cmb	1JS71	1E4	E1121	EE26	E040	1M64	dDl
ur nohb cmb	1JS72	20 JE	20- 61	20201	204E0	1M1J	dDl
ucdkr 8	6S72	J 21	6S4J	J E	JE21	1M42	dDl
NGhl DGhpml	- 172	1ESE	2242	2210	2122	M0J	dDl
NnTwl l mb	- E72	1JESS4	16S14	161- 0-	16S10J	SM04	dDl
. Ghocmb	1S- 71	6 441J6	6 611- J	6 0JE2-	6 6S4SJ	SM4-	dDl
. Ghocmb	1S- 72	- 20S4 0	- 10S 4-	- 2SS61J	- 21- E 2	1M1E	dDl
l dwCocmb	4J71	4- J66J	44S - 0-	44- 101-	44S J -	SM2	dDl
l dwCocmb	4J72	14J- - 2	14- 211	1441S	144210	SM04	dDl
l r 8 Cmb	271	4J	02	J4	J0	24M02	dDl
l r 8 Cmb	0072	E-	1S-	1S0	1S1	6M0	dDl
l r 8 Cmb	0 72		00	0-	0E	EM0E	dDl
l d8dnC	2 71	1S- 441	1S622J2J	1S- 6E01E	1S4J 0	1M6	dDl
l d8vr p	1S071	2660	24SE	2610	2J64	JM4	dDl
l d8vr p	1SE71	2S 4	1 JE	22JE	2S60	EM0S	dDl
l nocmb	2- 72	J2S00	J1JJS	J1 - S	J1 1E	SM1	dDl
l TpmCTcmb	671	62SS	S- 6	J- 2E	6J22	1M0S	dDl
l TpmCTcmb	71	02 - E-	0J- - J	0- 6SS	04S110	1M0S	dDl
l m8mp	- 471	2010ES	20- 6	20244E	2020S	SME	dDl
Ar pecmb	1JE71	E- - EJS	E 414 0	E 24JJ1	E6 - - - S	2M6	dDl
Ar pecmb	1JE72	4S0S - J	- E12E12	- E- - J14	- E0242S	2M16	dDl
AGw8mb	2S- 71	10SS	1J 4	16J	1640	- ME	dDl
AGw8mb	2SJ71	4S06	4S26	4S42	4S4	SM0-	dDl
AdC	11 71	11- 6-	110E0	12J1J	11 E2	4ME	dDl
AdTwCmb	4071	0E1J2	0EJSJ	000EJ	0 10	1M1J	dDl
RpwCmb	2- 71	- 6 6-	- 06ES	- 6 -	- 01- S	1M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	3 - 44671	tCl Tpmb Cr T:u wb r :a	N
5 8r CTI wb D8 :t&:a	9 y SU- 2	&8mTcnC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	J172	2JEJ0	2J616	2JJ06	2J010	SM1	dDl
YTTr pecmb	10271	2	02	J-	S-	SM0J	dDl
YTTr pecmb	10272	- E0-	414S	- E 4	4S- 2	2M1	dDl
YTTr pecmb	10671	0J11	0- 20	026E	0- 6E	1M01	dDl
YTTr pecmb	10672	1- 41-	12 12	1- 041	1- - 22	- M4	dDl
YTTpcmb	E71	126EJ12-	1- SESSE	12E441- 1	12ESE0 4	1MJ	dDl
YTTpcmb	E72	1- 22 4J	12 E2SJ	1- S66EE	1- S62JS	1M2E	dDl
ZdCd	6672	- 6J10	- 02J2	- 6SEE	- 662-	1MIE	dDl
ZqpdnCcmb	ES71	1- 6ES	14141	1- 4J0	1- 06-	2M-	dDl
ZqpdnCcmb	E171	2E10	- SJE	- 1- 4	- S- 0	- M62	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8biqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 2014	4 62u6	4u660S	4 1u S	SR	Qt I
d. iqe C. E	12171	222J	2SSS	24- 4	222S	R00	Qt I
dIl p. qO	0J72	10SJ	16- -	162S	16J-	2R00	Qt I
Bwldpe	1- J71	- S4S64	- 22206	- 14- 1S	- 1- JJS	2R 1	Qt I
Bwldpe	1- 071	J- S012	JJJJ- -	JJ- Ju1	J466Su	2R12	Qt I
BplE8dpe	71	- SJ0	- 102	- S01	- 1SS	2RS-	Qt I
Bdqe biG	2S 71	6u6 JS	0SJ 04u	6 4- 011	6 J0uS-	1R u	Qt I
Bdqe biG	2S 72	- 1u J-	- 2J 10	- 1S1- JS	- 1u- - J6	2R4u	Qt I
BlCe q p	u171	J1S1	J46u	J- S1	J2 S	- R40	Qt I
9 wne dpe	1Su71	1- -	1- -	1- -	1- -	SRSS	Qt I
9 wne dpe	1S671	4- 42	4SJ	4SJ1	41J1	4RSS	Qt I
9 wne dpe	11171	1J 1	1- 0J	1J2u	14 u	0R41	Qt I
9 w8Qdpe	4- 71	1 SJ4S	1 2J60	1 - Suu	1 2S6J	SR0S	Qt I
9 w8Qdpe	4471	- 2u 162	- - S2- S6	- - 2- -	- - SJ1- 6	SR1-	Qt I
9 wlr C.	1271	- 4- u0u-	- 4 - S46	- 641uu0	- J24J02	2R u	Qt I
9 wlr C.	1272	44242	4- J S	44 11	4424u	1R4	Qt I
9 G8Clq p	- J71	2Su60224	24626JS2	26021024	24S01u10	12R 2	Qt I
9 G8Clq p	- J72	2S Ju4	21SS	21J1 2	21162J	1R46	Qt I
9 GlCe dpe	J272	2JS4	24 22	2J- u	2J12S	SR 6	Qt I
9 Cr w8	J 72	- 2166	- S- 22	- S 0	- 1162	2R	Qt I
9 Ct t pl	6- 72	0- 1 0	0- - 1J	04S- 2	0- J1J	SR61	Qt I
TEl t lCl dpe	1J671	6 4 1	6uuS-	6 140	6 140	SR1S	Qt I
TEl t lCl dpe	1J672	2u- 20	2u4- 0	2 24J	2u60S	1R0J	Qt I
Ulr dpe	16471	4 - S	4 0S	J12Su	JS162	1R 2	Qt I
Ulr dpe	16472	2S4 2	2S2J2	2S16J	2S- S-	SRu-	Qt I
HwnC8q dpe	16S71	J0 6S	6S 6J	6S1 4	J 0S0	2R61	Qt I
HwnC8q dpe	16S72	2uu41	20	2u26S	2u- 60	1R12	Qt I
h C8e dpe	16J71	u 0- 0	644222	02S2	0J- 60	1R -	Qt I
h C8e dpe	16J72	41J4102	4S u- - -	4S11J- J	4SuuS1-	1R06	Qt I
&ndpe	11J71	6 611J1	0104u- 6	0S2u- Ju	0SJ40u2	1R1J	Qt I
&ndpe	11J72	62J00	60- - 2	42- 42	J0410	1R	Qt I
&C.	J472	10u4S06	1uSSu11	1062- - 4	10u24S0	1RSu	Qt I
&C.	J672	- 266 u- -	- 1uS4214	- 24 S41S	- 2- 214u6	1R41	Qt I
&C.	J072	00SuuJ	04uJ- 6	00S246	06- 222	1R60	Qt I
KIEt iC.	u- 71	- 2J	- 42	2 4	- 2S	0R01	Qt I
Lpwn	2S671	- 62J14	- 0J102	- 6 u 1	- 6 1 2	1R02	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMt8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	2 S- 6	- S66u-	- S- u6-	- S- 1 4	1R2u	Qt I
Lpwn	2Su71	142SJ20	144426u	14- 0uJ-	14- 4216	SRu6	Qt I
LqiGdpe	671	2J16 46	2J6u- 1S	2JS- 46	2J2 0- 4	1R J	Qt I
y wg. pl dpe	2472	61uJ 2	61- 0	6S 416	61- - 6	SR0J	Qt I
y w. gw. pl p	JJ72	622JSS	62SJ- 0	62J04u	622 2	SR42	Qt I
y C8Er np. be	471	12Ju	126-	124 u	12J0J	SR10	Qt I
y C8Er np. be	J71	- 610	4S- 4	- J	- u0S	JR04	Qt I
y C8Er np. be	671	J4uJ	611u	J uJ	Ju6-	JR0S	Qt I
y C8Er np. be	071	2010	22- 4	2J0J	2JS	R 1	Qt I
y C8Er np. be	u71	626u	6S20	626S	61uJ	2R22	Qt I
mpOnEe dpe	1JS71	12- 06u	12402u	124S42	12410	SR4S	Qt I
mpOnEe dpe	1JS72	- 0646	- uS61	- 06-	- 00u2	SR64	Qt I
mqOkp8	6S72	14- u1	1- 64S	14S 0	14S-	2R66	Qt I
NGOI t GOIbI	- 172	- S42	- S10	2 42	- SSS	1R0-	Qt I
NOiwI l dpe	- 72	2 16- 4	2u01S6	2u4SSu	2u0Ju-	1R -	Qt I
F GOndpe	1S- 71	0S 622S	0Su22J-	0SJ2- S1	0S06 2J	SR 2	Qt I
F GOndpe	1S- 72	- 2J4 0	- 1 uSSu	- 12- 1u-	- 1 2S62	2RS0	Qt I
DOw. ndpe	4J71	46J42- -	462 2S	4J0J11	461 J2S	SRu	Qt I
DOw. ndpe	4J72	140600	14J 2-	14S201	144624	2R6u	Qt I
Dp8p. dpe	u271	1S0	11	1 2	14S	- - RSu	Qt I
Dp8p. dpe	0072	1JS	1S0	14S	1- 2	10R16	Qt I
Dp8p. dpe	0u72	1	112	6	1SS	11RS1	Qt I
Dq8qC.	2u71	11SS4u	1S60SS- u	11100S6u	1S JS66u	2R J	Qt I
Dq8vpI	1S071	1410	10Su	160J	16SS	Ru	Qt I
Dq8vpI	1S 71	14- -	1JJu	1JJS	1J14	4R62	Qt I
DOndpe	2- 72	J6- 11	JJ 66	J4J0u	JJ61u	1R6J	Qt I
DiIC. idpe	u671	1026S	106uS2	102 S2	1041S4	1R 4	Qt I
DiIC. idpe	uu71	1J 4S- 0	1J 4 -	16126J2	16SSJ4-	SR66	Qt I
Db8bI	- 471	2uS- 0J	2u- 6S-	2u141S	2u10 6	SRu	Qt I
cpIr dpe	1J 71	Su2u0	1SS0u60u	u614u0	4 4u4	1R1J	Qt I
cpIr dpe	1J 72	4S S062	416- SSu	- u06 62	4S4- J00	- R6u	Qt I
cGw8dpe	2S- 71	2242	22S	2J0J	2- 42	uR66	Qt I
cGw8dpe	2SJ71	JuS2	J- 26	J01S	J61-	4R4	Qt I
cq	11u71	1J04-	166S2	161- J	1616S	2R66	Qt I
cqiw. dpe	4071	002u-	0u4J0	004J1	000- S	SRu2	Qt I
5 Iw. dpe	2- u71	01SJS	04646	0- 4uS	0- SJu	2R1	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 - 44671	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T :a	y h SM- -	T 8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	J172	- JSSS	- 4- 4J	- 4 46	- 406-	1R5J	Ol l
Yiiplr dpe	10271	120- 2	1- Su2	1- J 1	1- 1- J	- R2	Ol l
Yiiplr dpe	10272	6- 0	6224	6- 0	6- 2u	1R42	Ol l
Yiiplr dpe	10671	- 2S	1SS0	J12	6- 0	4R5	Ol l
Yiiplr dpe	10672	144 2	1J1u0	14u4u	14u42	2R4	Ol l
Yiildpe	u 71	1- 4 S1JJ	1- 4 4 Ju	1- - 062J	1- 4J- 0 1	SR1S	Ol l
Yiildpe	u 72	1- - - 644	142642	12 6040	1- J220-	4R4	Ol l
Zq O	6672	J 16	J 4J1	6SS4S	J uS2	SR12	Ol l
ZdOC. dpe	S71	20 2	2uJuS	- SS16	2uu42	- R0S	Ol l
ZdOC. dpe	171	6420	61- J	6400	6- 46	2R1	Ol l

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdPP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	- 4620N	- 4644h	- 41620	- 440N:	SM0h	dDw
qCTb nCE	12171	4210	4NSh	4: Sh	4: 12	6M6	dDw
qpwr Ccd	0: 72	14h4	14hh	14: 0	14N4	1M:	dDw
Bspcmb	1- : 71	- 2hh6N	- - 264:	- - 4hS1	- - 2: S:	SM04	dDw
Bspcmb	1- 071	: h1S10	: h6: N:	: h42- 4	: h- h4:	SM40	dDw
Br pEPPmb	h71	2S: 6	1h0S	2120	2S: 1	- MN:	dDw
Bcwb mTG	2Sh71	6002N- -	6NN62: S	6hSh411	6N: 616:	1M80	dDw
Bcwb mTG	2Sh72	- - 1Sh22	- - 20S26	- - 14026	- - 10: : N	SM2:	dDw
Bpmb cCr	N171	: S6N	: 21N	: : 06	: 2N0	4M4	dDw
5 sob cmb	1SN71	146	1: S	11-	1- 6	1: M1S	dDw
5 sob cmb	1S671	41Sh	42S1	42: 1	41N0	1M02	dDw
5 sob cmb	11171	116-	1ShS	1146	11- -	- M0	dDw
5 sPlcmb	4- 71	2h24: S	2h66- 4	2h- 2Nh	2h4124	SM0:	dDw
5 sPlcmb	4471	4h44h1-	: S- - : NN	4hN11: 6	4hN6: : 2	SMNh	dDw
5 spenC	1271	20S464N	20- - N04	20- S1- 2	2022NN:	SMN	dDw
5 spenC	1272	- - : 22	- - 014	- - 622	- - 62S	SM2h	dDw
5 GPmpcCr	- : 71	21: 4h4h1	2: 42h444	20264- h-	24040006	11M0h	dDw
5 GPmpcCr	- : 72	21416:	21NhN2	22- 64S	21Nh2h	2M6	dDw
5 Gpmb cmb	: 272	: 6S6-	: 6NN6	: 6N1h	: 6: Nh	SMN1	dDw
5 nesPT	: h72	- 2: S4	- 2N4:	- 1hS6	- 241N	1M40	dDw
5 nDDr p	6- 72	0- : 1-	021hh	02S0h	02: h0	1M1S	dDw
&EwDpnwcmb	1: 671	: 6S26	: 4462	: 46: 4	: : S40	1M:	dDw
&EwDpnwcmb	1: 672	2- 1: -	22Nh6	22606	22hSh	1M84	dDw
Fpecmb	16471	- hh00	- hhh4	- N016	- h: 62	1MN:	dDw
Fpecmb	16472	164- 4	16- S-	1622S	16- 1h	SM06	dDw
HsonPCcmb	16S71	4: h- N	40- 00	464: 0	46: h1	1M6	dDw
HsonPCcmb	16S72	221N2	22: S2	2- SSS	22: 61	1MN-	dDw
y nPb cmb	16: 71	h6hS: hh	hNh21- 4	h0N2S: 1	h0NN262	1M8-	dDw
y nPb cmb	16: 72	42h60h2	41: 1202	422: 2- -	42244- 2	1M02	dDw
tCocmb	11: 71	01: 0406	014: 1S4	016216h	01: 4h10	SM12	dDw
tCocmb	11: 72	hhN4h-	h066hS	hh2S1:	hNhS66	1M1-	dDw
tpnC	: 472	1: 20- N1	1: 220: -	1: S1N0S	1: 10- - :	SM1S	dDw
tpnC	: 672	202h04S-	201- hN1h	26h00640	201- N2hS	SMh	dDw
tpnC	: 072	640: : 1	6- 00- h	64- hN0	64- Sh2	SM00	dDw
KpEDTnC	N- 71	2h2	2hS	- 10	- SS	: M80	dDw
Lr so	2S671	0001N6	00N16N	06S0N:	002S46	1M26	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU- 4	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP u sb r J	S: Nq. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	62S: 0S	620h2:	611NN2	62S126	1M1S	dDw
Lr so	2SN71	- Sh0S21	- Sh2640	- S460NS	- S0NN16	SM1S	dDw
LdTGmb	671	24: - S- S	2: 00hN1	2: 0SN4:	2: - - h: 2	2M00	dDw
9 sgOr wcmb	2472	462N- S	461hS0	46S46S	4610- -	SM26	dDw
9 sOgsOr wr	: : 72	10S: hh0	160S- h2	1642- - 6	1602hSN	1M11	dDw
9 nPEeor Omb	h471	12h0-	120hS	12N4N	12N0S	SM0-	dDw
9 nPEeor Omb	h: 71	0411	6: 6N	01- :	0S- N	6M1S	dDw
9 nPEeor Omb	h671	h20N	h10N	Nh0N	h14:	1M00	dDw
9 nPEeor Omb	h071	4- 60	42: h	46Sh	4412	4M36	dDw
9 nPEeor Omb	hN71	11h- h	110- h	121h0	11h: N	1M12	dDw
u r noEb omb	1: S71	hN- 1h	h0S06	h604N	h0- N1	SMN:	dDw
u r noEb omb	1: S72	- S1h4	- S- N:	2h: 66	- SS4N	1M4-	dDw
u dkr P	6S72	1- 6SS	1- N- 4	1- N44	1- 0: h	1M3S	dDw
8 GhwDGhpmw	- 172	16- -	10h2	16SS	160:	6M11	dDw
8 nTswwcmb	- h72	16hS66	1602h6	1606N4	16NS1:	SM1:	dDw
. Ghocmb	1S- 71	020- N- S	0Sh2h10	021014-	01h46- S	1M2h	dDw
. Ghocmb	1S- 72	- 2h0NSN	- 2Nh4S0	- 2460SS	- 200h02	SMN4	dDw
l ds Coomb	4: 71	40S60: 1	40S1: 44	4: NS466	4662h2S	1M-	dDw
l ds Coomb	4: 72	14N0h:	14h10:	14N- 1S	14N06S	SM2h	dDw
l r P Comb	N271	N6	66	1S:	N6	22MN	dDw
l r P Comb	0072	12S	N0	12-	11S	1NM4-	dDw
l r P Comb	0N72	00	N1	0N	0h	2M6:	dDw
l dPdnC	2N71	11SN: 100	111162S-	11146161	1111: N40	SM20	dDw
l dPr p	1S071	16SN	1h: h	1N60	1N11	1SM32	dDw
l dPr p	1Sh71	16: N	1: 2:	16h2	162:	: M4-	dDw
l noomb	2- 72	06: 4-	0: : 12	0- 02S	0: 2: N	1M1S	dDw
l TpnCTomb	N671	2SS- hN	2SS400	1hhNh2	2SS2: :	SM16	dDw
l TpnCTomb	NN71	1N- 6S- 2	1N6: 2- 0	1N- 12: -	1N44104	1M3S	dDw
l mPmp	- 471	204S- S	2N1S0h	2N462S	20hh1S	1M1-	dDw
Ar pe omb	1: h71	hh0: 61-	1SSS: 6h:	1SS6- : 0-	1SS14h6S	SM4:	dDw
Ar pe omb	1: h72	41- N0h2	411N2SN	410hh0h	414: 66S	SM06	dDw
AGs PPmb	2S- 71	1060	162:	1642	160N	4M02	dDw
AGs PPmb	2S: 71	4160	46S1	4S- 4	426N	6M1:	dDw
AdC	11N71	2SS0-	1hh1:	2S- : N	2S11:	1M11	dDw
AdS Comb	4071	0N: 1:	0N4- 2	00644	0N1h0	SM01	dDw
R ps Comb	2- N71	4S- 6:	4S: - 2	4S26:	4S- N0	SM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP u sb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	- S2S2	- SN- 0	2h: 61	- S2SS	2M11	dDw
YTTr pe omb	10271	11240	11N14	1Sh6-	11- 41	- NM2	dDw
YTTr pe omb	10272	: 21N	: 62h	: 246	: - 64	4M2N	dDw
YTTr pe omb	10671	NS11	N4N6	0h: -	N1: S	- Mh	dDw
YTTr pe omb	10672	14- : 2	1422:	14- h1	14- 2-	SM61	dDw
YTTpomb	Nh71	1- 4401- S	1- - 1224N	1- - 46112	1- - 6N4h0	SM12	dDw
YTTpomb	Nh72	14116Nh	144- h2S	1414Sh6	142- 2- :	1M26	dDw
ZdCd	6672	- 06- 0	- 0Sh:	- 6024	- 01: 2	1M4-	dDw
ZqpdnComb	hS71	2- 021	2: 2- 2	24: 64	24: S:	- MSh	dDw
ZqpdnComb	h171	: - : 1	: - 06	: N1N	: : 1:	4M06	dDw

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On:7/14/2023 8:48:56 AM
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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DPP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdPP usb r J	S: . qF UMPb

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb oCcmb	2072	1SS2. 01	. N: - 1.	. . N6. 1	. . : 66S	SR 2	dDw
qCTb nCE	12171	22. 6: S	2- N064	2- N206	2- : : 6-	2P1N	dDw
qpwr Ccl	0: 72	1S1. 44	1SS2S6	1S1621	1S12: 0	SR 1	dDw
Bspcmb	1- : 71	22. - . . N	2- 14N10	22N6S. 2	22. N- S2	SP6:	dDw
Bspcmb	1- 071	4S2: S10	4SS64: 6	41S: S60	4S4: : 1-	1R S	dDw
Br pEPPmb	. 71	: 0: 4	: . N.	: 010	: N2S	2R 4	dDw
Bcvb mTG	2S. 71	0- - : 2NN	0S. : 26S	0S- N1. S	01: 6246	2P2S	dDw
Bcvb mTG	2S. 72	- 220: S-	- - - 266-	2406- 22	- S1216-	1: R S	dDw
Bpmb cCr	N171	4- S1	42S1	42N4	4262	1P26	dDw
9 sob cmb	1SN71	11. 6	142.	12. 2	1- S6	NR N	dDw
9 sob cmb	1S671	6- - :	: 06N	: N6S	: . NN	: PSN	dDw
9 sob cmb	11171	14001	14. S6	1: S16	14N. N	SPN2	dDw
9 sPdcmb	4- 71	642- 6N	6: 2. - 0	644- 06	646: 61	SPN0	dDw
9 sPdcmb	4471	1SN: N4N4	1S. - : 4N2	1SN2060S	1SN0- N0.	SR 1	dDw
9 spenC	1271	242604S	242. 2. 4	241- SS1	242- S12	SR 6	dDw
9 spenC	1272	2. - 1-	2. 21-	2N02N	2. SN:	1PS0	dDw
9 GPmpcCr	- : 71	21N61- S2	2: : : S: : 0	20010211	2: S4- S2-	11PN2	dDw
9 GPmpcCr	- : 72	2140: .	21. 2- 1	22: 14N	21. 01-	2R 0	dDw
9 Gpmb cmb	: 272	61006	6- S. 2	6- : . 1	62N1.	1P4.	dDw
9 nesPT	: . 72	6: NNN	604N6	602. 1	66NNN	1R S	dDw
9 nDDr p	6- 72	2. 124-	2. SS44	2. 24- .	2. 1242	SP41	dDw
&EwDpnwcmb	1: 671	1216- :	12N- S4	1261: 1	12: - 6-	2P01	dDw
&EwDpnwcmb	1: 672	: 12N:	: 1646	: - S62	: 1. . 0	1PN1	dDw
Upecmb	16471	60. . 2	6. N06	6. 042	6. 2S-	1R 2	dDw
Upecmb	16472	20S04	20- N:	2N- 14	20: . 1	2R 4	dDw
HsonPCcmb	16S71	. 4: 20	. 6. . -	. 6: S0	. 6SS.	1R 6	dDw
HsonPCcmb	16S72	462- -	4: 0- 2	46S06	46S14	SR 6	dDw
h nPb cmb	16: 71	1S: 124- 0	. . 6: 62:	. N2- : N1	1S1SS: 4N	- P6S	dDw
h nPb cmb	16: 72	4S64404	416. 1- 4	- 2S166:	- N110: N	1- R -	dDw
tCocmb	11: 71	0: 4N2. N	0- - 4: 22	011SN62	0- - 1220	2R N	dDw
tCocmb	11: 72	. 622S6	. 6. . . :	0- 66- 0	NN. 61-	14R S	dDw
tpnC	: 472	20N- 4N:	2041. . -	2N2412N	20N- 2S2	1P4N	dDw
tpnC	: 672	: SS04: 41	: S206S2N	: S4S: 241	: S2: 1. - 0	SR -	dDw
tpnC	: 072	11. - 1. 4	11. N: 6.	12212. 4	12S4- : 2	1P24	dDw
KpEDTnC	N- 71	- 4.	- 0:	- - 4	- : 2	: R 2	dDw
Lr so	2S671	- . 4: 6: N	4S2: SS:	4144N1S	4S- N4. 1	2P4N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DP t& J	y h SM- :	&dPmTmC MsdTnpJ	1
&sT i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP usb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S071	- - N1: N1	- - 0: 046	- 4: . S: 4	- 4S: 46S	1R 0	dDw
Lr so	2SN71	1: . S260-	16S- 6SN4	16- S216:	16SNS- S0	1R26	dDw
LdTGmb	671	26. 0S6.	2626: 1N	26- : S. 4	26: 2N. 4	1R4:	dDw
y sgOr wmb	2472	1- . S0. 2	1- . - - 10	1- . 11- 2	1- . 1040	SR1S	dDw
y sOgsOr wr	: : 72	: S2662N	: S001N4	: 1- . . N4	: SN126:	1R12	dDw
y nPEeor Omb	. 471	1N- 12S	1. S1- N	1N0: S-	1N6. 2S	1R S	dDw
y nPEeor Omb	. : 71	16: 1N6	10- S- 0	10- - S0	10S: 1S	2R01	dDw
y nPEeor Omb	. 671	1. : - S4	1. N- 02	2S- . 46	1. . 2S0	2R2S	dDw
y nPEeor Omb	. 071	1S: . 0.	1S6. 01	1S6- 4.	1S64- -	SR40	dDw
y nPEeor Omb	. N71	266100	204. - 6	20026S	2020. 1	2R14	dDw
u r noEb omb	1: S71	21. 041	22. : 4S	2- 1. . :	220S. 2	2RN6	dDw
u r noEb omb	1: S72	6N410	6N641	6. 0. 4	6N. : 1	1RS0	dDw
u dkr P	6S72	20SS6	2666N	20- . S	20S21	1R 4	dDw
8 GhwDGhpmw	- 172	1460:	14N. 1	1: 1: N	14. SN	1R62	dDw
8 nTswwmb	- . 72	6N006-	60N- 6-	6N40N1	6N- 6- 6	SR0S	dDw
F Ghoomb	1S- 71	0: 61: 11	0116006	6N6- - . 4	01NS: 6S	4R 2	dDw
F Ghoomb	1S- 72	- 2S46. -	- 1. 0. - 0	24N126N	2. 61- SS	14RS4	dDw
I ds Coomb	4: 71	: S- N602	40S2246	4022140	4N21S21	- R 2	dDw
I ds Coomb	4: 72	1: S: 1S	14N: 2-	1142: N	1- 0064	14R0.	dDw
I r P Comb	N271	0:	: 2	1: :	. 4	: 0R21	dDw
I r P Comb	0072	21S	2- S	210	21.	4R6:	dDw
I r P Comb	0N72	160	10.	1. .	1N2	NR S	dDw
I dRdnC	2N71	112S: 64N	114S4. : .	112NS1- -	112. 6. 1-	SRN.	dDw
I dPr p	1S071	N. . : 2	. 2. S4	. 11: -	. 1- - 6	1R6-	dDw
I dPr p	1S. 71	N. S02	NN4- 4	NN426	NN644	SR42	dDw
I noomb	2- 72	2: 0004	2: 6. 16	261S: N	2: N: N-	SRN:	dDw
I TpmCTomb	N671	N2- 4- 2	N6S16S	N- 0- : N	N4S- 10	2R21	dDw
I TpmCTomb	NN71	0- 66202	0: 0: NSS	040. 6- .	040- . S4	1R4S	dDw
I mPmp	- 471	2. . 4S4	- S2: 4:	- S1- 1.	- S1SN.	SR-	dDw
Ar peomb	1: . 71	1S062401	1S1S0164	. . - 2: 66	1S2604SS	4R26	dDw
Ar peomb	1: . 72	4S60. : 1	4S1N- 0S	- 124N2.	- 0- 0S: S	14R2S	dDw
AGsRmb	2S- 71	21: 20	2S0. 2	22S0N	2146:	- RSS	dDw
AGsRmb	2S: 71	4. 41.	: 1- - 6	: 244S	: 1S6:	2R.	dDw
AdC	11N71	11S1-	11002	110: :	11: 1-	- R0	dDw
AdsComb	4071	- 0S210	- NS4- 2	- 004N1	- 06S4-	1R4S	dDw
5 ps Comb	2- N71	2. 1NS6	- S6S02	- SS: : N	2. . 40.	2R4S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DPP t& J	y h SM- :	&dPnTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdPP u sb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	: 172	4110: N	410- 62	41N- : -	41: N24	SRN6	dDw
YTTr pe omb	10271	1: 01S	16NN6	1: N- :	16144	4RSS	dDw
YTTr pe omb	10272	061.	061.	0640	062N	SR21	dDw
YTTr pe omb	10671	12S. N	1212-	1244S	1222S	1R 6	dDw
YTTr pe omb	10672	1: . 6S	1: . 1:	1- 02.	1: 2S2	NR .	dDw
YTTpomb	N. 71	14NS- 2S-	1- . 0. : N6	14S2N- - 4	1420S- 04	- R24	dDw
YTTpomb	N. 72	1- 66- 41	144N: 10	1S6: 2S0	12. - - : :	1: R6S	dDw
ZdCd	6672	: 2N- . .	: - - 2- 4	: - . N- :	: - - N2-	1RSN	dDw
ZqpdnComb	. S71	24S- 14	24. S: .	24: - . .	244. 24	1R0.	dDw
ZqpdnComb	. 171	: 6140	: 6S64	: : N6-	: 6S2:	SR26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d &be q dpe	2072	1S1- 614	1SS2a- -	aa01- 4	1SS4: 6S	SRu-	Ol l
d . iqe C. E	12171	22: - 62	220- u6	2- 2aS-	22u: : S	1R01	Ol l
dll p. qO	0: 72	1S- 02:	1S4: 02	1S- 1uS	1S- u26	SR6u	Ol l
Bwldpe	1- : 71	u02a61	uu2S61	aS- S: 1	uu6S24	1R04	Ol l
Bwldpe	1- 071	16- 66: -	16: 1- 6u	16642S-	16: S041	SRu4	Ol l
BplE&&pe	a71	: 6Sa	: 610	: : S2	: : 06	1R1:	Ol l
Bdqe biG	2Sa71	6: : S6- S	04u- 162	6a124aa	6au2Sa0	6R0-	Ol l
Bdqe biG	2Sa72	- 10S01:	- 216: 44	- 210: uu	- 2S1616	SRu4	Ol l
BlCe q p	u171	4206	4- 10	4- 60	4- 2S	1RS6	Ol l
9 wne dpe	1Su71	14- -	12: 4	1- 0:	1- : 4	6R0:	Ol l
9 wne dpe	1S671	: - 6u	62a-	: u: 1	: u- 0	0Ra-	Ol l
9 wne dpe	11171	14021	1: 264	14- 1S	1406:	- R24	Ol l
9 w&Odpe	4- 71	0- 2211	0- 00u6	0- 2- 0S	0- 412-	SR4-	Ol l
9 w&Odpe	4471	122- S2: 6	12- 6uua6	12: - 0001	12- 0ua04	1R24	Ol l
9 wlr C.	1271	2- 41S- 0	2- : 0a24	2- 2u022	2- 42: 61	SR6-	Ol l
9 wlr C.	1272	2u- 0u	2uSS2	2u- 61	2u240	SR0:	Ol l
9 G&Clq p	- : 71	21a- 044-	2: 16aa2a	201a41S2	240601: u	1SR01	Ol l
9 G&Clq p	- : 72	2S040a	21S2S1	21u2Sa	211a6-	2R6-	Ol l
9 GlCe dpe	: 272	4aa6-	4a41u	4a26:	4a: 4a	SR04	Ol l
9 Cr w&	: a72	6- - 1S	6- S2:	6- 1aa	6- 10u	SR2-	Ol l
9 Ct t pl	6- 72	- 61S: a	- : : S44	- 6S00:	- : ua6S	SRa:	Ol l
TEl t lCl dpe	1: 671	11: 24:	112: aS	114u- :	11422-	1R2:	Ol l
TEl t lCl dpe	1: 672	46u- 2	40062	46: 10	40S- 0	1Ru	Ol l
Ulr dpe	16471	6S- a0	6S- S4	61- - :	6S60u	SRa4	Ol l
Ulr dpe	16472	24: S6	2- auu	24- : 6	242u-	1R1S	Ol l
HwnC&q dpe	16S71	u4S: u	u62- S	u6: u2	u: 62-	1R6S	Ol l
HwnC&q dpe	16S72	- a606	41S2S	4Sa6-	4S: : -	1Ru0	Ol l
h C&e dpe	16: 71	a1ua242	1Su10u: S	au00u62	aa616: 1	uR21	Ol l
h C&e dpe	16: 72	4212: 4-	410u- 1:	412a016	410- : 2:	1RSS	Ol l
& ndpe	11: 71	66SaS- 1	0u: 26u2	0S: 0a1a	010- 211	uR0u	Ol l
& ndpe	11: 72	a4a- u1	a- 61- -	a- 02S6	a4SaS6	SR0u	Ol l
&C.	: 472	26- 1S2u	26- 26a-	2: 00114	261- 612	1R21	Ol l
&C.	: 672	46a: 60a0	466122: u	461a04: 0	46: uuu- 0	SRu2	Ol l
&C.	: 072	112- 66u	11S066:	111S- - :	111- uua	SR00	Ol l
KIEt iC.	u- 71	- - 6	- - S	- - 1	- - 2	SRaa	Ol l
Lpwn	2S671	- 41a- 42	- - 06u00	- 41u: 4u	- 4S4a22	SR01	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	&l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T&piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u6: a16	2ua: 0S-	2aS2Suu	2uu0aS2	SR60	Ol l
Lpwn	2Su71	1- 4- 0146	1- 44: 0a-	1- 6S- 4aS	1- 4a: 400	SR6a	Ol l
LqiGdpe	671	24- - a16	20aSaa1	2: 400a0	2: aSaS2	0RS4	Ol l
y wg. pl dpe	2472	116141a	11: 0Sa0	11uu: S6	116aSS0	1R46	Ol l
y w. gw. pl p	: : 72	: 1a21- 6	: Sa040S	: S040: 1	: 1214: 2	1R22	Ol l
y O&Er np. be	a471	1u6u0u	1uau26	1uaS4S	1uu: u1	SRu1	Ol l
y O&Er np. be	a: 71	1u4: Sa	1u0- 6-	1u- 644	1u: 102	1RS:	Ol l
y O&Er np. be	a671	2126- u	21- u10	214626	21- 6a4	SR40	Ol l
y O&Er np. be	a071	114- 4:	11u6au	11- : : 6	11: : - -	2R4S	Ol l
y O&Er np. be	au71	2a6- aa	- S: 4au	2a01: :	2aa6u4	1R6u	Ol l
mpOnEe dpe	1: S71	1aaSu:	2S12- 2	2S410-	2S14a0	1R20	Ol l
mpOnEe dpe	1: S72	610a2	6Su: 1	61: 60	614S-	SRuS	Ol l
mqOkp8	6S72	20: S0	26u: a	202u-	20216	1R21	Ol l
NGOl t GOlbl	- 172	12- 14	124: 6	12214	12- 2u	SRaa	Ol l
NOiwl l dpe	- a72	6uuSS2	6a: aaS	6u: - Su	6ua060	SRu1	Ol l
F GOndpe	1S- 71	6: 0Su1u	0: : a: a4	0S1ua42	0S4a0u:	0RS2	Ol l
F GOndpe	1S- 72	- 1a04- S	- 1u461u	- 114: 1a	- 16: : 22	1R41	Ol l
DOw. ndpe	4: 71	440: 6a0	4aa2aua	4: 06a16	46u1u60	: Ru6	Ol l
DOw. ndpe	4: 72	1402S6	140S0:	140010	140- - -	SR2-	Ol l
Dp&p. dpe	u271	11:	1S:	1- :	11u	12Ra1	Ol l
Dp&p. dpe	0072	1uS	16S	1u-	104	0R24	Ol l
Dp&p. dpe	0u72	14u	1u:	141	1: u	14Ra6	Ol l
Dq&qOC.	2u71	1162- 642	11624u2S	116SaS2-	1161a162	SRSu	Ol l
Dq&vpl	1S071	u: 41:	u4a0S	u42S0	u4u64	SR02	Ol l
Dq&vpl	1Sa71	uS1: 1	u2a0:	uS41a	u11u2	1Ra2	Ol l
DOndpe	2- 72	2- 2- uS	2- 142:	2- 1062	2- 1u: 6	SR21	Ol l
DilC. idpe	u671	a: 2S21	a46aS0	a: 06: u	a: 21a:	SR 6	Ol l
DilC. idpe	uu71	u- 6a- u6	u62a- S-	u: S- 0: 0	u: SSu16	1R -	Ol l
Db&bl	- 471	: - 4a24	: - uu66	: 440: S	: - a: 1-	SRa2	Ol l
cplr dpe	1: a71	a: 2- 6S0	1S006: 6S	auu2u6:	1SS61S11	6R41	Ol l
cplr dpe	1: a72	4S4411a	4S: 0600	41Su- 02	4S0SS: 6	SRu-	Ol l
cGw&&pe	2S- 71	10001	10621	101- 0	10: Sa	1Rua	Ol l
cGw&&pe	2S: 71	42- u0	41- 24	4- 44a	42- u0	2R 1	Ol l
cq	11u71	1S4- u	12- 0-	1Sa6-	112: u	uRua	Ol l
cqiw. dpe	4071	- S0u6u	- S4u0-	- S61uu	- S6- 1S	SR4a	Ol l
5 lw. dpe	2- u71	2a: a6S	2ua64u	2a: uu:	2a- u- 1	1R2-	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	: 172	- 642SS	- 66aau	- 6410u	- 6: 12:	SR44	Qtl
Yiiplr dpe	10271	1- 204	142u-	1- uSu	1- 0uu	- R36	Qtl
Yiiplr dpe	10272	646-	60uS	6u: 0	60SS	- R12	Qtl
Yiiplr dpe	10671	1S: uS	1S- - u	1Sa21	1S61-	2R06	Qtl
Yiiplr dpe	10672	14u2S	140u6	1: 6: a	1: Suu	- R2u	Qtl
Yiildpe	ua71	1- S1S- 0a	14u201- -	1- u2- - S6	1- uu6a- a	6R:	Qtl
Yiildpe	ua72	1- - Su6u	1- - 02aa	1- 2S12S	1- 2a42a	SR6:	Qtl
Zq O	6672	: S64a4	: S66u0	4a04: 0	: S- : 46	1R5:	Qtl
Zdl OC. dpe	aS71	22- 1- 1	22- - aS	2- 1604	226S6:	2R1:	Qtl
Zdl OC. dpe	a171	: 16uS	: S64-	: 211:	: 140a	1R40	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T :a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T :a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUM

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
8be qCdpe	2072	6SJS- 4	6SSJS-	Jh- u66	JhhuS1	SM14	dt l
Ciqe nCE	12171	4- S1	4426	4J4-	442-	2M0-	dt l
Il pCqd	0J72	12- S-	12- - 4	12- 6u	12- - J	SM26	dt l
Bwldpe	1- J71	401h41	4uJJ6-	4u- 262	4uS2JJ	1M12	dt l
Bwldpe	1- 071	u- 0J6J	u46424	uJSJJ4	u44u4u	SM0h	dt l
BplE8dpe	h71	24S6	24u0	2J- 4	2406	2M61	dt l
Bdqe biG	2Sh71	6uS0622	6h0hJ- 0	6u222u1	6u6hu1-	1Mh	dt l
Bdqe biG	2Sh72	- - S- uS6	- 2J1110	- 22SJ6J	- 2Ju4h6	1M2h	dt l
Blne qCp	u171	601S	02J2	0200	0SuS	4M-	dt l
5 woe dpe	1Su71	242	242	260	2JS	JM00	dt l
5 woe dpe	1S671	4J4-	4S26	4- S1	42hS	6M8-	dt l
5 woe dpe	11171	2J2-	2- SS	2- - J	2- u6	JM82	dt l
5 w8ldpe	4- 71	- 162Su	- 2- 1uh	- 226JS	- 2S6u2	1M21	dt l
5 w8ldpe	4471	J4Su4u-	JJ1SuJ2	J4J6uJ4	J4Ju0- S	SM14	dt l
5 wlr nC	1271	6Su0- 6h	66SJ66h	6JhS- 44	64200h4	4Mh	dt l
5 wlr nC	1272	u1uJ-	0hh2J	u241J	u1- hu	1M0S	dt l
5 G8nlqCp	- J71	21S0620u	2JS0S- 66	20SSJh- S	24- u41h1	12M4S	dt l
5 G8nlqCp	- J72	2S1h00	2Su- Sh	212S1u	2S04- J	2M4J	dt l
5 Glne dpe	J272	- 660-	- 66S4	- JhJ2	- 641S	1M8h	dt l
5 nr w8	Jh72	40u1-	4h62-	40606	4u- 01	2M2J	dt l
5 nt t pl	6- 72	102S2S	10S62u	10SJ41	101S6-	SM4h	dt l
TEl t Inl dpe	1J671	6h6Ju	0S- 61	60u22	6h2uS	1Mh	dt l
TEl t Inl dpe	1J672	2u614	2uh0u	2uJ04	2u022	SM0u	dt l
Flr dpe	16471	J- 042	JJhh-	J6S44	JJ26S	2Mu	dt l
Flr dpe	16472	2210J	221- 2	21u02	22S6S	SM04	dt l
Hwon8qCdpe	16S71	Jh2J0	62S0h	61h0u	611SJ	2M62	dt l
Hwon8qCdpe	16S72	2u610	2h6uS	2h1J2	2h1JS	1M12	dt l
y n8e dpe	16J71	hhSh11u	1SSS4S61	h0JhJu6	huhSh22	1M2J	dt l
y n8e dpe	16J72	41u- SS0	412004S	4142Sh2	41JSh46	SM8h	dt l
&Codpe	11J71	0S014- 6	02- h- JJ	6h42J- 6	0Su4442	2M1S	dt l
&Codpe	11J72	hJ- 1h0	hJ2102	hJ2- 4S	hJ2J0S	SM86	dt l
&nC	J472	- S2h2- 4	- S- uSu6	- S4J12h	- S- 04u-	SM26	dt l
&nC	J672	JJS21- JJ	J4616u- h	J- h0J01u	J4J- 0h01	SM10	dt l
&nC	J072	1- h- Jh-	14Sh646	1- 611hS	1- uu14-	1M0u	dt l
KIEt inC	u- 71	- 26	- 1S	- 26	- 21	2M12	dt l
Lpwo	2S671	4hhS2S	4h611J	4h14J6	4hJJ- S	SM00	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Cl ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqjl
Lpwo	2S071	41- 1S-	41S1hS	4S6Suh	4Sh0h4	SM16	dt l
Lpwo	2Su71	1h2J06h	1h2h06S	1h42- 1-	1h- 2614	SM4J	dt l
LqiGdpe	671	2J24- 22	2JJ4hh0	2661JuJ	2JuS- S1	2M0h	dt l
9 wgCpl dpe	2472	0h1S1h	u1S6u-	uS1661	uS1121	1M2-	dt l
9 wCgwCpl p	JJ72	uS1u01	uS6410	0hh616	uS26- J	SM4-	dt l
9 n8Er opCbe	h471	201S2	204u6	20J61	20- u-	SM1S	dt l
9 n8Er opCbe	hJ71	611S	6SJ1	J406	Ju0h	JM16	dt l
9 n8Er opCbe	h671	1S46-	1S212	1S- 01	1S- 4h	1M22	dt l
9 n8Er opCbe	h071	- - Sh	- JS1	- J42	- 4J1	- M61	dt l
9 n8Er opCbe	hu71	h162	h60h	h4hJ	h44J	2M0	dt l
mpnoEe dpe	1JS71	1161- 2	11JuJ1	11uJhh	116u61	1M2h	dt l
mpnoEe dpe	1JS72	- J- - S	- 4h4h	- J644	- J- Su	SM1h	dt l
mqdkp8	6S72	24uJh	24huJ	24002	24u02	SM4-	dt l
NGnl t GnIbl	- 172	u16h	0061	0J6h	0u- -	- M12	dt l
Nniwl l dpe	- h72	4S604S	410h1-	4S0110	41SJhS	1MJ	dt l
. Gnodpe	1S- 71	6h0Sh60	0146600	01u464S	01SS061	1M61	dt l
. Gnodpe	1S- 72	- 21hu6u	- 24614S	- 1h2hu4	- 21h664	SM-	dt l
DdwCodpe	4J71	46SJuu-	402J- SJ	4010u- u	46u- SSh	1M4-	dt l
DdwCodpe	4J72	140Su2	140166	146h04	140S04	SM80	dt l
Dp8pCdpe	u271	2- 2	1h0	2S0	212	uM4u	dt l
Dp8pCdpe	0072	12-	1- S	h-	116	16M1S	dt l
Dp8pCdpe	0u72	11S	uJ	124	1S6	1uMu	dt l
Dq8qnC	2u71	1J6Jh2h0	1Ju444hu	14hh- 26S	1J4hhS1u	2Mh	dt l
Dq8vpl	1S071	2u10	- 1Jh	2uh2	2hJ6	6M8u	dt l
Dq8vpl	1Sh71	2uSS	200J	2JSh	26hJ	6M8S	dt l
Dnodpe	2- 72	61h16	61S0S	62Sh1	616h2	SMh	dt l
DilnCidpe	u671	2u606u	2hh21S	2h20h-	2h2h24	2M12	dt l
DilnCidpe	uu71	26SSu02	20102- S	266h1Jh	266242S	2M2S	dt l
Db8bl	- 471	- S4hSu	- S- - uu	- S101S	- S- - - 6	SM-	dt l
cplr dpe	1Jh71	1S14J40u	1S24J- 1J	1S140Ju1	1S10h4Ju	SM6	dt l
cplr dpe	1Jh72	4S- 2u41	4S100- 1	4S00u24	4S420hh	SM0	dt l
cGwq8pe	2S- 71	2410	2- 0J	2- u4	2- h2	SM12	dt l
cGwq8pe	2SJ71	J1S1	J1h-	J1- 4	J14-	SM1S	dt l
cqC	11u71	u1h4	u6- 6	u4- 6	u422	2M-	dt l
cqwCdpe	4071	1SS2h2	1S1Shu	hh- 1u	1SS2- 6	SMh	dt l
RlwCdpe	2- u71	0uhh6	0h- 2-	0h- JJ	0h22J	SM2J	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T :a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T :a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqil
VwCwodpe	J172	6hS4J	6u- 2h	6uhJ6	6u000	SMl0	dt l
Yiiplr dpe	10271	16244	1020S	164S2	166- h	- M2	dt l
Yiiplr dpe	10272	0- u6	00h0	06u6	062-	2M7h	dt l
Yiiplr dpe	10671	11h02	11h40	110- h	11uu6	1M8u	dt l
Yiiplr dpe	10672	1J01S	1J621	162u2	1Ju01	2M26	dt l
Yiildpe	uh71	1- 40h646	1- uJS6Su	1- uSJ0uh	1- 012S14	1M4u	dt l
Yiildpe	uh72	141SJS2	1- 626J1	1- 4J1- J	1- 0206-	2M46	dt l
ZqCd	6672	uh- S6	uu26-	u00hS	uu4J-	SMlu	dt l
ZqdnCdpe	hS71	6- 1u6	6- h02	64h- J	64S- 1	1Ml0	dt l
ZqdnCdpe	h171	14S04	1Ju06	14u2J	14h2J	6M86	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNt . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9 r l .	F3l y l &	5. dP
qNmb c omb	20:2	1-4	14-	10	1-	11N31	dDP
q. Tb C. h	121:1	-S	0-	77	-7	7 N04	dDP
qpPr . cl	0-:2	4	6	-	-	2SN3S	dDP
Bl pomb	17-:1	160	-s	1SS	1Ss	-SM44	dDP
Bl pomb	170:1	742	1Ss	s7	10s	sSM14	dDP
Br phNNmb	:1	-4	4	4S	40	14N04	dDP
BcPb mTE	2S :1	60SS4S1	60s0-s	661 76s	60S24-7	1N26	dDP
BcPb mTE	2S :2	711000S	72224-0	7102S -	710S004	1N0-	dDP
BpCb c r	s1:1	7042	70 2	7006	700S	SN0s	dDP
Fl ob omb	1Ss:1	s	s	10	11	47N74	dDP
Fl ob omb	1S6:1	77S	7S-S	7726	722s	4N0s	dDP
Fl ob omb	111:1	7-s	74	7-4	7-4	1N7S	dDP
Fl Nlomb	47:1	7S	2s1	2-2	2s1	1SN32	dDP
Fl Nlomb	44:1	77041	77SS6	72--S	77S	1N42	dDP
Fl peC.	12:1	226047S	224-0-2	22 2Ss-	226s427	1N32	dDP
Fl peC.	12:2	2sS-2	20s 4	2s-70	2s161	1N1	dDP
FENQpc r	7-:1	77744s0	71676 -	717SsS0	72S 667	7N41	dDP
FENQpc r	7-:2	1 7sS	1 0S-	1 7 0	1 4 4	SN4	dDP
FEpCb omb	-2:2	1S 0	1S-0	12-0	1170	N71	dDP
FCel NT	- :2	70	47	6S	40	2-N0-	dDP
FCDDr p	67:2	1S7S	s2S	-S	77	11N76	dDP
&hPDpCPomb	1-6:1	2-	10	s	10	-SN31	dDP
&hPDpCPomb	1-6:2	7	0	7	4	47N4S	dDP
Upeomb	164:1	s7	-S	-S	61	71NS	dDP
Upeomb	164:2	70	20	2S	2s	7SN2S	dDP
Gl oONd omb	16S:1	-S	60	1SS	02	7-N2-	dDP
Gl oONd omb	16S:2	127	14S	11S	124	12N3s	dDP
HONN omb	16-:1	47 414	10s2 s	--06-4	7 10s	2N30	dDP
HONN omb	16-:2	41 0 s0	41-s 7	4S0- 4-	41447S	1NS	dDP
t. oomb	11-:1	60s s47	6 -6206	6 67 -1	6 S77-0	1N47	dDP
t. oomb	11-:2	4-061	s-S00	-46-6	61s71	2N14	dDP
tpC.	-4:2	461	-10	411	467	11N41	dDP
tpC.	-6:2	7--1	-0-	470	4-67	24N4-	dDP
tpC.	-0:2	111	210	1s7	10S	71N60	dDP
KphDTC.	s7:1	262	2-2	241	2-2	4N22	dDP
Lrl o	2S6:1	170s	1122	1110	12S6	12N7s	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNr . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUM

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl.	F3l yl &	5. dP
Lr l o	2S0:1	122s	1S2s	1S22	1S 7	1SM02	dDP
Lr l o	2Ss:1	-4S1	44 -	467	4s4-	1SM34	dDP
LdEcmb	6:1	24S0s64	2-7SS1	2440002	2461ss-	2M7	dDP
9l g. r Pcmb	24:2	177	2-s	10-	1s	77M	dDP
9l . gl . r Pr	- - :2	127	107	4S0	27-	64M7	dDP
9 CNeor . mb	4:1	210	2SS	1SS	102	76M4	dDP
9 CNeor . mb	- :1	0-	0-	110	s	20M0	dDP
9 CNeor . mb	6:1	260	142	12-	10s	47M6	dDP
9 CNeor . mb	0:1	60	-s	s	44	0SM	dDP
9 CNeor . mb	s:1	142	60	s7	0	4SMS	dDP
ur Cohb cmb	1-S:1	4S	2S	20	2	7-M-	dDP
ur Cohb cmb	1-S:2	S	1S	0	6	1M4	dDP
ucdkr N	6S:2	20	6S	-7	40	70M	dDP
3 ECPDECpmP	71:2	1Ss	1-s	1 2	1-7	20M-	dDP
3 CTl PPcmb	7 :2	612	6S7	1SS-4	0-6	2M4	dDP
y ECocmb	1S7:1	6s62-7s	6 -6162	6s6s4 -	6s -072	SM6	dDP
y ECocmb	1S7:2	72-0-s0	7200S-S	72S4 S4	7246-14	1M-	dDP
l dl . ocmb	4- :1	44- -S66	4-16- -2	47- 0s-	4447sS1	1Ms	dDP
l dl . ocmb	4- :2	14S126	1467s1	1426S1	147S76	2MS	dDP
l r Nl . cmb	s2:1	1	:-	4	S	SMS	dDP
l r Nl . cmb	00:2	0	S	S	2	107M1	dDP
l r Nl . cmb	0s:2	1-	14	21	10	22M2	dDP
l dcdC.	2s:1	1sS611	10-s21	1060s	100041	1M2	dDP
l dNr p	1S0:1	160	1s7	110	1-6	22M7S	dDP
l dNr p	1S :1	1 2	1 2	12-	16	22M1	dDP
l Cocmb	27:2	21S 1	21-42	21416	2174	1M	dDP
l TpC. Tcmb	s6:1	-60	-60	6Ss	-s1	4M4	dDP
l TpC. Tcmb	ss:1	2S10	1410	12-S	1-61	2-M7	dDP
l mNmp	74:1	2-41 2	2- 2S	2-s1-7	2-0422	1M4	dDP
Ar pecmb	1- :1	- 202s	-106 -	6-66s1	-s S7-	SM7	dDP
Ar pecmb	1- :2	4SS-6-1	41S4S40	7 40S07	4S1s 24	1M0	dDP
AEl NNmb	2S7:1	7SS	410	4-s	7 2	2SM6	dDP
AEl NNmb	2S- :1	2-	sSS	-S	s 2	M1	dDP
Ac	11s:1	1S42	12SS	12Ss	11-S	sM0	dDP
AcT . cmb	40:1	1-S	142	1-s	1-S	-M6	dDP
5pl . cmb	27s:1	s7	77	10	44	0sM0	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	n Dr pl TCpla	wl P8l N
LI eJl b DNJt&Jal	3B1-7 21BL	t. PTpmb . r TJul b r Ja	3s
FNr . TJl b DNJt&Jal	3BI 21	&dnTC. JRl dTCpla	1
&l Tr J JAdb r JqdOmpr o Ja	2S27:S0:12J1-a7sa1-	&l Tr RdNJul b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl .	F3l yl &	5 . dP
Vl . l ocmb	-1:2	20	4S	7S	72	21M7	dDP
YTTr pecmb	102:1	-S	77	0-	-7	7 M04	dDP
YTTr pecmb	102:2	22	77	2s	2s	2SM3S	dDP
YTTr pecmb	106:1	1277	1210	11Ss	11s6	-M02	dDP
YTTr pecmb	106:2	1S701	1S0s2	1S77s	1S4 0	2M76	dDP
YTTpcmb	s :1	12766sS0	122 S-1S	122-17SS	127S2s02	SM4s	dDP
YTTpcmb	s :2	1262s2-	17s2716	172127S	1722124	4M2	dDP
Zc d	66:2	1S7	16S	1-S	17s	21M-	dDP
ZqpdC. cmb	S:1	-60	7 2	7Ss	422	71M27	dDP
ZqpdC. cmb	1:1	42	1Ss	s7	0s	47M7S	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l T Rdpamle pas	S67LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14 6	1-61	1-4S	1-72	2M16	dDP
q. Tde C. h	121J1	16SS1	1010u	107S7	16u20	4M20	dDP
qlPp. cd	0-J2	24u	276	2-6	240	4N8u	dDP
Bl ldbe	17-J1	1u1uu	1 S 0	1u-uS	1u622	2M4-	dDP
Bl ldbe	170J1	7S676	726-0	72004	72S22	7N0-	dDP
BplhNNbe	J1	2246	2211	22 1	224	1N0u	dDP
BdPe bTE	2S J1	616-4S6	6u-2S40	601S-S-	6-0- u6	-M1	dDP
BdPe bTE	2S J2	72S2 u2	71-1674	72S1464	71u-76S	SM2	dDP
BlCe c p	u1J1	4S-1	7642	4106	7 -6	0N8-	dDP
Fl oe dbe	1SuJ1	1-4	1uu	142	161	14N0S	dDP
Fl oe dbe	1S6J1	70S	76-1	7 42	7060	4M1S	dDP
Fl oe dbe	111J1	2022	2-uu	2-70	2616	7N04	dDP
Fl Ndbe	47J1	121u	122u1	11 0-	1214u	1N2	dDP
Fl Ndbe	44J1	224110	226 S	2266-1	22- 1	SN0S	dDP
Fl lr C.	12J1	27S14uS	22 4 Su	272 20-	27Su--4	SN0	dDP
Fl lr C.	12J2	20210	2uS-2	20u47	200S4	1M0	dDP
FENCl c p	7-J1	21-S0uu	2S4- -7	2S2S6 0	2S0240	7N7	dDP
FENCl c p	7-J2	170	12u4u	12u4u	1716-	4M10	dDP
FElCe dbe	-2J2	67-1	620-	6S71	621	2N4	dDP
FCrl NT	- J2	4u21	4u64	4064	4u16	1N84	dDP
FCDDpl	67J2	u42	u0 7	u6S6	u6S	2M1	dDP
&hPDlCPtbe	1-6J1	10	S	u	u	1SSN82	dDP
&hPDlCPtbe	1-6J2	7	0	0	6	74N0S	dDP
Ulr dbe	164J1	-S	77	-u	40	26M6	dDP
Ulr dbe	164J2	27	70	1S	27	-0M1-	dDP
Gl oCNl dbe	16SJ1	60	0-	12-	u	7-MS	dDP
Gl oCNl dbe	16SJ2	11S	177	1-0	177	10MS	dDP
HCNe dbe	16-J1	u6677-6	-406uu	-u-0u1	26-6Su	-N07	dDP
HCNe dbe	16-J2	4Su606	412 Suu	42241S6	41466-4	1N0S	dDP
t. odbe	11-J1	67666 0	6u0 26	0S-2 72	60662	-N20	dDP
t. odbe	11-J2	u2uSu	47u7-	60 4-	64u67	2N84	dDP
tlC.	-4J2	22 67	27SSu	27-14	27162	1M72	dDP
tlC.	-6J2	42 11-	422-4-	42-6uu	42-0u2	SN00	dDP
tlC.	-0J2	1S4u2	1S-u0	1S670	1S-6	SN0-	dDP
KlhDTC.	u7J1	261	2-4	2-S	2--	2M4-	dDP
Lpl o	2S6J1	u-76	1S7	S64	u S1	7M6	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamlepas	S67LF: UMd

3llepTpl	9lPP	F3: 1	F3: 2	F3: 7	F3: 9pl.	F3: y: &	5.dP
Lpl o	2S0J1	000-	u240	001	0 14	7M60	dDP
Lpl o	2SuJ1	7-271	76uuu	7-62S	7- 17	2M41	dDP
LdEdbe	6J1	2774607	24u-- 7	2-112-	2447u42	7MS	dDP
9lg. pPdbe	24J2	1S17-1	1S7-S1	1S224	1S2760	1M3-	dDP
9l. gl. pPp	--J2	1740	1707	1777	17-1	1M1	dDP
9 CNr op. be	4J1	10uS4	1u270	10-62	10u6u	1M2	dDP
9 CNr op. be	-J1	21 47	21626	22020	22S	2M0	dDP
9 CNr op. be	6J1	2427u	27-01	2--S0	2447	4M37	dDP
9 CNr op. be	0J1	14S04	17-04	174	1701-	2M2u	dDP
9 CNr op. be	uJ1	74247	7-1u0	7-u64	7-S u	2M72	dDP
mpCohe dbe	1-SJ1	2S	17	2S	1u	21M06	dDP
mpCohe dbe	1-SJ2	7	7	0	4	47M4S	dDP
mdkpN	6SJ2	14 0	144S	17u0	1441	7M12	dDP
3ECPDECIbP	71J2	277	177	142	16	72M0-	dDP
3CTPPdbe	7 J2	01247	01Su4	0S024	01S10	SM70	dDP
y ECodbe	1S7J1	62-u407	6 S6S7S	6 -02-0	60S02-7	-M41	dDP
y ECodbe	1S7J2	771-6S	716 S0-	7222S7	727--04	2M2	dDP
:dl. odbe	4-J1	4S u62	46S-70u	44 646	44SS-0S	6M3-	dDP
:dl. odbe	4-J2	14-02	17 72	14-4 2	14701u	2M2u	dDP
:pNp. dbe	u2J1	021	1	u14	u1u	12M3u	dDP
:pNp. dbe	00J2	20	7S	7S	2	6M4-	dDP
:pNp. dbe	0uJ2	1		S	7	-M2u	dDP
:dNdC.	2uJ1	270770	2760 4	270764	27016-	SM14	dDP
:dNpl	1S0J1	114--	11614	1S 7u	11776	7M12	dDP
:dNpl	1S J1	1S4 6	1S001	1S uu	1S0-2	2M2	dDP
:Codbe	27J2	1 7027	1 6SuS	1u 0u1	1 71 -	1M4-	dDP
:TC. Tdbe	u6J1	2 42	7S74	7S74	7SS7	1M06	dDP
:TC. Tdbe	uuJ1	22061	22 11	27S2u	22 SS	SMu	dDP
:bNbl	74J1	26766u	26-740	26u67u	26-uu4	SM-	dDP
Aplr dbe	1- J1	1u4u2S	00001-	0-2-6-	-010SS	7MS	dDP
Aplr dbe	1- J2	7 7uu1	7 21127	4S 41S2	4SS7S7-	2M10	dDP
AEl Nbe	2S7J1	2 -	046	0-4	- u	2M07	dDP
AEl Nbe	2S-J1	22412	27 4u	241u1	27-14	4M3	dDP
Ac	11uJ1	11-S	17S	1742	1260	uM3	dDP
AdT. dbe	40J1	6-7-	6747	- 06	62u-	4M2	dDP
5ll. dbe	27uJ1	722SS	721 2	72S4	72140	SM26	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamle pas	S67LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	u60	700	0 S	60u	2M07	dDP
YTpIr dbe	102J1	42	-S	0-	-6	71M22	dDP
YTpIr dbe	102J2	2u	2u	77	7S	1SM1	dDP
YTpIr dbe	106J1	1110	12SS	1S0-	1171	-M07	dDP
YTpIr dbe	106J2	1S400	u-	11S77	1S4-6	-M61	dDP
YTTdbe	u J1	11--- -7	12-- 47-	12u72u60	12716Su-	-M46	dDP
YTTdbe	u J2	17-7460	124-76	126-S60	12u0 6u	4M40	dDP
Zc d	66J2	24 0	2244	2440	27 6	-M0S	dDP
ZddC. dbe	SJ1	144-u	14u10	1460-	146-S	1M27	dDP
ZddC. dbe	1J1	7-74	7142	7460	77u1	6M2S	dDP

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdPP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N2hSNS	N24020	N14h4N	N22h1N	SMMN	dDw
qCTb nCE	12171	2- 0:	24N4	22h2	2- N4	4NS-	dDw
qpwr Ccd	0: 72	20Nh	201-	2622	20SN	- NSh	dDw
Bspcmb	1- : 71	40464S	4h- 240	4h- : S2	4N01- S	2M02	dDw
Bspcmb	1- 071	N66h4h	N0S2- 2	N001: 4	N0144:	SM0S	dDw
Br pEPPmb	h71	1N- h	1h14	1h04	1hSh	- M4	dDw
Bcwb mTG	2Sh71	02h: 241	0S242: :	6: - 6h6h	6h: 21: :	: M-	dDw
Bcwb mTG	2Sh72	- 26N0- h	- 1: N: - -	- 2S: 26h	- 21SN40	1M02	dDw
Bpmb cCr	N171	646N	0S6h	0: S2	0S1-	0M4S	dDw
5 sob cmb	1SN71	16-	1SN	121	1- 1	21M02	dDw
5 sob cmb	1S671	42- 4	- h60	4126	41Sh	- M20	dDw
5 sob cmb	11171	16: 6	1: 2h	1: 2S	1: 6N	4MM-	dDw
5 sPlcmb	4- 71	0- : 0NS	0: SS- N	0: 0hSh	040hSh	1M1S	dDw
5 sPlcmb	4471	1224Nh20	12: 06: 1S	12: NN- 0S	1240126h	1M4	dDw
5 spenC	1271	4NN16SS	: 2S6S2N	: 1216- :	: S6h0: 4	- M2	dDw
5 spenC	1272	62204	6- Sh4	616: :	62- 41	1M16	dDw
5 GPhpcCr	- : 71	12NS1NN1	16022: 22	1h- 0- 22h	162hh211	2SM2N	dDw
5 GPhpcCr	- : 72	160- Sh	1046N0	1N1S02	104- : 6	- M1:	dDw
5 Gpmb cmb	: 272	- N6: 2	- 6: 1S	- 0S0N	- 041-	2M10	dDw
5 nesPT	: h72	- 066-	- 0666	- N4: :	- 0h2N	1M2S	dDw
5 nDDr p	6- 72	0- hS1	04S: 2	0264:	0- : - -	1MS:	dDw
&EwDpnwcmb	1: 671	: S622	: - : 10	: - : 0:	: 2: 02	- M21	dDw
&EwDpnwcmb	1: 672	21: 4N	22122	216N4	210N:	1M1N	dDw
Fpecmb	16471	416h1	44- 16	421N4	420- 1	- M20	dDw
Fpecmb	16472	10S0N	10S14	16NhN	16hh0	SM4	dDw
HsonPCcmb	16S71	466N2	4hS41	4hS04	4N266	2MM4	dDw
HsonPCcmb	16S72	2- 160	22N1-	224h2	22N24	1M4N	dDw
y nPb cmb	16: 71	1S- 16S06	1S- 2NSN6	h26- 020	hh6h2h6	6M1-	dDw
y nPb cmb	16: 72	42SS: : :	41- 1h14	4Sh6N0-	414- 114	1M20	dDw
tCocmb	11: 71	062h122	0- 001: S	66- 4N: 1	021- 0SN	0M10	dDw
tCocmb	11: 72	h: NS- 1	h: 6h2:	h: : : 14	h: 6N24	SM1-	dDw
tpnC	: 472	2: 4S40-	261: - 0-	2: 206S-	2: 6114h	1MM:	dDw
tpnC	: 672	46Nh2: - 0	40014S06	4: 66: 0- h	460: 04: 1	2M2S	dDw
tpnC	: 072	112S6N-	111: SN6	11S- S40	1112h- h	SMM1	dDw
KpEDTnC	N- 71	- - S	- 4h	- 12	- - S	: M4h	dDw
Lr so	2S671	- Sh: 21	- 2S: 2S	- 2S- 11	- 160N4	1MMh	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	2: 4211	2624N-	26- - h0	26SS- S	1M1:	dDw
Lr so	2SN71	12S4010	1242: 2:	12: 6: - 0	12- 4: h-	2M10	dDw
LdTGmb	671	204SN4N	2: 0SS6-	24N: 416	2: hN00:	: M81	dDw
9 sgOr wcmb	2472	1N6- 2- 2	1N0- 461	1NN00S0	1N04NSS	SM06	dDw
9 sOgs Or wr	: : 72	: - N012	: 4SS01	: - SN- :	: - 6: - h	SM1-	dDw
9 nPEeor Omb	h471	11014	122Nh	12122	12S42	2M46	dDw
9 nPEeor Omb	h: 71	: - 4-	: 226	: 6- :	: 4S1	- M1S	dDw
9 nPEeor Omb	h671	6h6S	0: : 2	04S2	0- S:	4M21	dDw
9 nPEeor Omb	h071	- - 42	- - : S	- 210	- - S-	2M26	dDw
9 nPEeor Omb	hN71	N- 6h	N4N6	h- 12	N022	: MNh	dDw
u r noEb cmb	1: S71	N4NS6	N- h42	N41S2	N42N-	SM1:	dDw
u r noEb cmb	1: S72	26- 2-	26166	261h6	2622N	SM12	dDw
u cdkr P	6S72	2S- : 1	2S: h2	2S1- N	2S- 6S	1M12	dDw
8 GhwDGhpmw	- 172	4: 6N	40: 1	4: : h	4626	2M4	dDw
8 nTswwcmb	- h72	4N2h- :	406442	4NS1S0	40hN2N	SM0N	dDw
. Ghocmb	1S- 71	00112: 0	0- 600h:	66: 66S2	024: 21N	0M42	dDw
. Ghocmb	1S- 72	- 21: 10N	- ShN4- 4	- 1- 46N2	- 14h4- 1	1M1S	dDw
I ds Cocmb	4: 71	: S2: N44	4062: : -	446: 1N:	40: 11h4	: M1S	dDw
I ds Cocmb	4: 72	1461: 6	144: 6S	144h: S	14: 222	SM10	dDw
I r PP Ccmb	N271	6h	N4	11h	hS	2NM0	dDw
I r PP Ccmb	0072	60	NS	11S	N6	2: M14	dDw
I r PP Ccmb	0N72	h:	Nh	6-	N2	2SM06	dDw
I dPdnC	2N71	14- 6- NN2	146- 640S	14N2NhSS	146Sh0: 1	1M0S	dDw
I dPr p	1S071	262:	1h60	2S10	22S-	16M04	dDw
I dPr p	1Sh71	22- 4	21: S	24SS	2261	: M0-	dDw
I nocmb	2- 72	11440-	1106- 1	1164Nh	1161hN	1M1N	dDw
I TpnCTcmb	N671	6- 0N2N	6: 42: 4	6444: -	64: : 12	1M2N	dDw
I TpnCTcmb	NN71	: 01N: N6	: N2SS0S	: 022612	: 0: - 0: 6	1M8S	dDw
I mPmp	- 471	2h60SN	- SS: - N	- SS000	2hh- 41	SM06	dDw
Ar pecmb	1: h71	1SN6h- 62	1S4N4hhS	h62h1h2	1S- 20N4N	6M1:	dDw
Ar pecmb	1: h72	41616S-	41- N- 0-	4SS- 42:	41S11- -	2M8N	dDw
AGs PPcmb	2S- 71	2: h2	2hSS	2: h2	26h:	6M01	dDw
AGs PPcmb	2S: 71	6N6h	6644	60h4	606h	1M0h	dDw
AdC	11N71	606S	6h00	01h4	6h00	- M11	dDw
AdS Ccmb	4071	N1N4-	N4h6S	N2401	N- Sh1	1M1N	dDw
RpsCcmb	2- N71	: 2- 0:	: 1N4S	: - 1h:	: 240S	1M1S	dDw

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Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP u sb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	6- 0S0	6- 044	6- 14N	6- : - -	SM-	dDw
YTTr pe omb	10271	1- SS0	120hS	1- : h1	1- 12h	- M16	dDw
YTTr pe omb	10272	6204	6- h1	61S0	62: 0	2M2N	dDw
YTTr pe omb	10671	h: N0	h012	h1h:	h4hN	2MM4	dDw
YTTr pe omb	10672	14664	14Nh2	14: 6h	140SN	1M-	dDw
YTTpomb	Nh71	146N4- 4S	1- 4S: 1: 0	12N6hhS:	1- 6: - 1- 4	6MM-	dDw
YTTpomb	Nh72	1- hh424	1- - N404	1- 21420	1- : - 1SN	- MS-	dDw
ZdCd	6672	46416	46: 2h	44hS4	4: h: S	1MM0	dDw
ZqpdnComb	hS71	2- 0: 4	2: 666	2: 1: 0	24N: h	- MMN	dDw
ZqpdnComb	h171	: 46S	: 026	: N: 1	: 60h	- M2	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdPP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6h02N:	6N: h6S	6NS0Sh	6N0hN:	1M4-	dDw
qCTb nCE	12171	2S2:	2- SS	210:	2160	6M6	dDw
qpwr Ccd	0: 72	- SS:	- 112	- S66	- S61	1M0:	dDw
Bspcmb	1- : 71	4Sh214	4ShNh-	- h062h	4S: : 0h	1M0S	dDw
Bspcmb	1- 071	02- 02N	02214-	02: hh0	02- h: 6	SM20	dDw
Br pEPPmb	h71	1: 2:	16- S	14h4	1: 4h	4M61	dDw
Bcwb mTG	2Sh71	6h10S02	62h1- - 2	662S1: 1	66Sh: 1N	4M04	dDw
Bcwb mTG	2Sh72	- 242N0N	- 2NSNN2	- 2S111S	- 24162-	1M4-	dDw
Bpmb cCr	N171	6N1N	0SS2	01N:	0SS2	2M62	dDw
5 sob cmb	1SN71	11-	121	1SS	111	hM44	dDw
5 sob cmb	1S671	41Sh	- h: h	44: h	4106	6M1:	dDw
5 sob cmb	11171	1: - 6	14- 2	1422	146-	4M-	dDw
5 sPlcmb	4- 71	62h- NS	6- 420h	6- 2664	6- 21S0	SMh	dDw
5 sPlcmb	4471	1S4- S4Sh	1SNS01- 0	1S- NNNS0	1S: 4211N	2M1h	dDw
5 spenC	1271	- : 62140	- 6S2- N0	- 6hS1h0	- 61N244	1MM1	dDw
5 spenC	1272	441SS	4: 01-	4- 1N1	44- - 1	2MMh	dDw
5 GPmpcCr	- : 71	1h: h- S- 1	2- : : 6: 6:	2: hhN0h:	2- S4h464	14M3-	dDw
5 GPmpcCr	- : 72	2S2hS6	2SNh00	21S044	2S0: 4-	1M1N	dDw
5 Gpmb cmb	: 272	- 10h:	- 21NS	- 210S	- 2S4N	SM0N	dDw
5 nesPT	: h72	- : N: 2	- 6Nh1	- : h2h	- 6224	1M0S	dDw
5 nDDr p	6- 72	6- 2: 0	6- - 44	6- 6Sh	6- 4S-	SM2h	dDw
&EwDpnwcmb	1: 671	: - 0Sh	: 4002	: 1hN:	: - 4Nh	2M0-	dDw
&EwDpnwcmb	1: 672	22Sh:	216: 1	21: : 1	21066	1M-	dDw
Fpecmb	16471	4S22S	4S20N	- h6- :	4SS4:	SMMh	dDw
Fpecmb	16472	161S0	1: h46	1: 0S-	1: h1h	1M2N	dDw
HsonPCcmb	16S71	4622-	461: 6	4: 44:	4: h41	SM14	dDw
HsonPCcmb	16S72	22- Sh	216h4	21: 24	21N42	1MMh	dDw
y nPb cmb	16: 71	1SSh- 0: h	Nh: N6h4	h441S42	h4h0N- 2	6M3S	dDw
y nPb cmb	16: 72	4142NN6	42: : N4S	42S66: S	42S10h2	1M:	dDw
tCocmb	11: 71	01006S2	6464NS4	6N021Sh	6N- N102	: M4-	dDw
tCocmb	11: 72	h: 0h6-	h6: S6h	h64: 14	h62: 16	SM41	dDw
tpnC	: 472	2- : : 26:	2- 6: 222	2- - N441	2- : 2h06	SMN	dDw
tpnC	: 672	424ShSh4	42- NS: 2h	42201466	42- : - 6h6	SM10	dDw
tpnC	: 072	1S11462	1S246NS	hh: : S6	1S1S: 4h	1M4:	dDw
KpEDTnC	N- 71	- S2	2hS	- 24	- S:	: Mh	dDw
Lr so	2S671	206S01	202NNS	20N: : 4	20: N- :	1M3-	dDw

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Lse l sb DP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	22hh- :	2- 102h	2- 22- 1	2- 12hN	SM12	dDw
Lr so	2SN71	1SNS1Nh	1ShShh4	1S0S60h	1SNS621	SM14	dDw
LdTGmb	671	2: : : 010	22hh- N0	2: 20411	246SN- N	: M01	dDw
9 sgOr wcmb	2472	14: 1: N6	14- S2h4	14S41- N	142N60-	1M06	dDw
9 sOgsOr wr	: : 72	4N: 02S	4N: S- 4	4N2: 60	4N444S	SM14	dDw
9 nPEeor Omb	h471	1S62h	1ShNN	11S21	1SNNS	2M3S	dDw
9 nPEeor Omb	h: 71	: SS1	: 2Sh	: 16N	: 126	2M1:	dDw
9 nPEeor Omb	h671	6N6S	6NN:	6N6h	6N01	SM1h	dDw
9 nPEeor Omb	h071	- 110	- - h2	- 1Sh	- 2S6	: M3-	dDw
9 nPEeor Omb	hN71	00N6	N1- 6	0h- 6	0h: 2	2M21	dDw
u r noEb omb	1: S71	Nh0h2	hSS4N	hS: : 1	hS1- 1	SM4-	dDw
u r noEb omb	1: S72	2N226	20261	20N- 6	20004	1M0:	dDw
u dkr P	6S72	2S- - 1	1h: 60	1h644	1hN40	2M12	dDw
8 GhwDGhpmw	- 172	- 460	- 110	- 2N4	- 2Nh	: M12	dDw
8 nTswwcmb	- h72	- 0: NS6	- 60: SS	- 0- S22	- 021Sh	1M14	dDw
. Ghocmb	1S- 71	01- - SN0	6: 2h: SS	6h: 2- 2N	6N016- N	4M11	dDw
. Ghocmb	1S- 72	- 21N066	- 21166S	- 22: h2:	- 21N0N-	SM22	dDw
I dsCocmb	4: 71	46: 0Nh6	42S: N1S	4: h142N	44N: S44	: M44	dDw
I dsCocmb	4: 72	14: NSh	14000N	140h44	140100	SMM1	dDw
I r PCcmb	N271	1S6	11:	11h	11-	: M06	dDw
I r PCcmb	0072	hS	12-	1S-	1S6	1: M1S	dDw
I r PCcmb	0N72	N0	60	04	06	1- M:	dDw
I dRdnC	2N71	1- N1- h6-	1- N12SS:	146hhh- 1	141SN6- -	- M0-	dDw
I dPr p	1S071	22: h	22: S	2S2:	210N	6M3N	dDw
I dPr p	1Sh71	22N4	22- 4	21SS	22S6	4M1S	dDw
I nocmb	2- 72	1122- S	111: : h	11Sh12	111: 60	SM1h	dDw
I TpnCTcmb	N671	: 20hS2	: 2SN: h	: 1N06S	: 22: S0	SM12	dDw
I TpnCTcmb	NN71	46N462-	4024: 6S	401011:	40SN066	SM4:	dDw
I mPmp	- 471	2h4S14	2h: S0h	2h: 66-	2h4h1N	SM2N	dDw
Ar pecmb	1: h71	1S42S160	hS060N0	hNSS14:	h06: 6hh	6MMN	dDw
Ar pecmb	1: h72	4Sh1011	412: h20	4S6N1: 2	4Sh: 26-	SM01	dDw
AGsPRmb	2S- 71	212:	2S- 4	2- 0:	210N	NM12	dDw
AGsPRmb	2S: 71	: : 1S	: 2N:	: 4h-	: 42h	2M11	dDw
AdC	11N71	: 0- :	: 0: 1	0- - h	620:	14M0h	dDw
AdSCcmb	4071	64hS0	6- 042	6- - hh	64S16	1M2-	dDw
RpsCcmb	2- N71	420N1	4- 2- 2	42NhS	42h6N	SM1:	dDw

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Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP u sb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	: N: 26	6SN: :	: h4- -	: h6S:	1M10	dDw
YTTr pe omb	10271	1Sh6-	112NN	1S46-	1ShS:	- MM1	dDw
YTTr pe omb	10272	: 10h	: 212	: SS0	: 1- -	2M1:	dDw
YTTr pe omb	10671	N21h	0N2N	N2: -	N1SS	2M12	dDw
YTTr pe omb	10672	1- 004	14S- S	1411h	1- h04	1M2N	dDw
YTTpomb	Nh71	1- : 00106	12- 01SN4	1- S6N- S6	1- SS: : 22	4M66	dDw
YTTpomb	Nh72	1- 20S1S	1- - 6N2S	14S61: S	1- : 666S	- M1N	dDw
ZdCd	6672	- 0N64	- 6- 1-	- 0Nh4	- 0- : 0	2M42	dDw
ZqpdnComb	hS71	210: h	21N: h	2S: 4h	21- Nh	- M41	dDw
ZqpdnComb	h171	4N6N	4hS1	44: 1	404S	: M2h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdPP usb r J	S66q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	0h6: : :	0NNS: h	0N2h2h	0Nh1N1	SMM0	dDw
qCTb nCE	12171	10SS	1h: S	1NSS	1N10	6M1-	dDw
qpwr Ccd	0: 72	- S14	2hSh	2h20	2h: S	1M1S	dDw
Bspcmb	1- : 71	0S: : : :	01ShNh	01hh4:	01216-	1MS2	dDw
Bspcmb	1- 071	12011S1	120406:	120112:	1202- - S	SM10	dDw
Br pEPPcmb	h71	02N1	0SSS	042N	02- 6	- MS1	dDw
Bcwb mTG	2Sh71	60- 6NhS	6N11066	0S4SSN6	6N62h14	2M1S	dDw
Bcwb mTG	2Sh72	- 1221S6	- - 401: 1	- 2Nh- : 0	- 2: 2N02	- M1h	dDw
Bpmb cOr	N171	h10N	h: 62	1S4- 0	h026	6M04	dDw
5 sob cmb	1SN71	2S4	10:	2- N	2S6	1: M22	dDw
5 sob cmb	1S671	: 1- 4	: 46S	: S: 1	: 21:	4M14	dDw
5 sob cmb	11171	22N0	2- 6h	2414	2- : 0	2M0-	dDw
5 sPlcmb	4- 71	22- S: 6	22NSh-	22N- h6	226: 1:	1M12	dDw
5 sPlcmb	4471	- Nh1Nh:	- 0h- S2-	- h26NN2	- N0S6SS	1M0h	dDw
5 spenC	1271	- hN6S0-	42S: - 4h	424NN1N	4146040	- M1S	dDw
5 spenC	1272	: 21: 2	: 2S06	: 204:	: 2- 24	SM0S	dDw
5 GPnpcOr	- : 71	210h- SN0	2: 6h0- N0	2N1h: hS2	2: 22N0h2	12M0h	dDw
5 GPnpcOr	- : 72	2214: S	22- 02:	220- : 6	224100	1M-	dDw
5 Gpmb cmb	: 272	244- 4	2400:	240S:	246- N	SM0-	dDw
5 nesPT	: h72	- 02h6	- 06: S	- 0NS-	- 0: N-	SM0h	dDw
5 nDDr p	6- 72	6: - 0S	6424N	6- h- 0	64: 1N	1M10	dDw
&EwDpnwcmb	1: 671	- 0N4S:	- N00N1	- N420:	- N- 4N0	1M24	dDw
&EwDpnwcmb	1: 672	161- - 6	1: 0: hh	1: h1: 4	1: h- 6-	1M1N	dDw
Fpecmb	16471	- ShN04	- 12644	- 21: hh	- 140S6	1M1:	dDw
Fpecmb	16472	12h: hN	12N: 46	12: 046	120h6-	1M16	dDw
HsonPCcmb	16S71	- 2: 4- 6	- 2SN06	- 2: - 64	- 2- Nh2	SMM1	dDw
HsonPCcmb	16S72	1: 42NS	1: 424h	1: SNNh	1: - 1- h	1M20	dDw
y nPb cmb	16: 71	h: N6SNN	hh64N2h	1S- N26: 0	hh00N: N	- M1h	dDw
y nPb cmb	16: 72	4S: - - 0-	42: 0244	4- - 4- N1	4214hhh	- M14	dDw
tCocmb	11: 71	0Sh- 44:	011- 6N4	020N: SN	0161N0h	1M12	dDw
tCocmb	11: 72	h- N- 06	h6006h	h0N4: 1	h61: - 2	2M16	dDw
tpnC	: 472	4S- 6410	41: 416h	4S12- Sh	4S606- 2	1MM0	dDw
tpnC	: 672	0- h4- 4: 0	0- - N6: S4	0- - h- S- N	0- : 04- - -	SM1-	dDw
tpnC	: 072	1h2NNS0	1N66111	1Nh620N	1Nh0S6:	1M0:	dDw
KpEDTnC	N- 71	6N1	0S1	6h:	6h2	1M1N	dDw
Lr so	2S671	424- 0h	422N0h	42NN6:	42: - 0:	SM0-	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU10	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP usb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- 4NhSh	- : 1: - 2	- : 12h:	- : S: 0h	SM41	dDw
Lr so	2SN71	10S16- h	16h211h	10241hh	10S: hN6	SM10	dDw
LdTGmb	671	24hS: NS	24NShN2	2610N4N	2: 2hNS-	- MS2	dDw
9 sgOr wcmb	2472	6042SN	60- h40	66Nh2N	602- 61	SM44	dDw
9 sOgsOr wr	: : 72	20- h- 40	2064h02	2021: 42	2041h: 4	SMMS	dDw
9 nPEeor Omb	h471	1- 2: 0	1- 66:	1- N- 2	1- : N:	2M1N	dDw
9 nPEeor Omb	h: 71	h4N0	1SS46	h: 62	h6hN	- M1-	dDw
9 nPEeor Omb	h671	11- 40	11064	116h0	116S2	1M1-	dDw
9 nPEeor Omb	h071	: h- :	61h-	6S1N	6S4h	2M1N	dDw
9 nPEeor Omb	hN71	1: : S1	14h: S	14060	1: S02	2M-	dDw
u r noEb cmb	1: S71	601: NN	6N- - 00	6NhS6h	6N1- 4:	1M1	dDw
u r noEb cmb	1: S72	21S: 1:	2S01N-	2S4: SN	2S04S2	1M4:	dDw
ucdkr P	6S72	10011	104S1	10- 61	104h1	1M1S	dDw
8 GhwDGhpmw	- 172	- 1- 4	- - SS	- 242	- 22:	2M62	dDw
8 nTswwcmb	- h72	0- 66h:	040: 6h	0- 1SSS	0- N421	1M14	dDw
. Ghocmb	1S- 71	6N40614	0S: 6NNN	02: N2: 4	0S: 42: 2	2M11	dDw
. Ghocmb	1S- 72	- S0N2- 6	- 1h- N: h	- 20- Sh:	- 1N10- S	- MSN	dDw
I dsCocmb	4: 71	46: N64S	46: Sh00	40N116-	46h6h20	1M16	dDw
I dsCocmb	4: 72	1420- 1	14010-	1: 1N44	14024h	- MSh	dDw
I r P Ccmb	N271	412	41S	46:	42h	0M24	dDw
I r P Ccmb	0072	02S	01-	6hS	0SN	2M-	dDw
I r P Ccmb	0N72	4: 1	: 2S	401	4N1	0Mh	dDw
I dPdnC	2N71	14: S410:	1: 42: 6- 4	14hN44- -	14h01414	- MSN	dDw
I dPr p	1S071	2210	22: h	2S42	2102	: M2h	dDw
I dPr p	1Sh71	2110	2: 60	2S: h	2240	12MN	dDw
I nocmb	2- 72	4461h	44Sh2	4- : N2	44ShN	1M1N	dDw
I TpnCTcmb	N671	160- 6S	10- : : 2	104112	10160:	2M1N	dDw
I TpnCTcmb	NN71	1: N: S1-	1: 04: - N	1: 0: 0SS	1: 0N410	SM16	dDw
I mPmp	- 471	2NN266	2h1S0-	2N4- 16	2N0NN:	1M1N	dDw
Ar pecmb	1: h71	hNNh: 04	1S1h4N: 2	1S244S46	1S1Sh4h1	1M1S	dDw
Ar pecmb	1: h72	- h0- 60h	42- 402:	4210462	4141h: :	- M12	dDw
AGsPPcmb	2S- 71	- - 60	- - 60	- - - 4	- - : 6	SM10	dDw
AGsPPcmb	2S: 71	N- : -	0hh4	N: - 6	N2h:	- M12	dDw
AdC	11N71	16- 00	102- 0	16: 20	16014	2M0:	dDw
AdSCcmb	4071	4616h2	4NS262	40h402	40- NSh	2M42	dDw
RpsCcmb	2- N71	1S2- 2N	1S- N0:	1S62N:	1S416-	1M11	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP u sb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	404- :	4NS4S	46120	402S1	2N30	dDw
YTTr pe omb	10271	h: 2N:	h- - 46	hNh6-	h: N6:	2M1N	dDw
YTTr pe omb	10272	40S61	461S2	44N21	4: hh:	2M14	dDw
YTTr pe omb	10671	622: 6	: hh0h	61- 4-	611h-	1MN0	dDw
YTTr pe omb	10672	- h0S4	4S12N	4S: 2-	4S11N	1N32	dDw
YTTpomb	Nh71	16Nh: Shh	1022N: h:	1006N- S-	102h0- - 2	2M:	dDw
YTTpomb	Nh72	1046112	10hSN20	10h- 2- 2	1006024	1M1h	dDw
ZdCd	6672	h1S: 4	h1: h0	h2SS-	h1: : 1	SM12	dDw
ZqpdnComb	hS71	2224-	22h: -	2- h: 4	2- S: S	- N0-	dDw
ZqpdnComb	h171	: S26	4N4-	: 21N	: S2h	- N0-	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N- - 0h:	N16h: 0	N1: - : :	N22S- :	1N24	dDw
qCTb nCE	12171	10SS	160:	1NSS	102:	- NN-	dDw
qpwr Ccd	0: 72	- 1: S	- SNh	- Sh0	- 112	1NS0	dDw
Bspcmb	1- : 71	0: : 02N	0- hhh:	0: h42-	0: 1016	1M0	dDw
Bspcmb	1- 071	1- - 0h- N	1- - - 22N	1- 42NNh	1- - NS1N	SM6	dDw
Br pEPPmb	h71	0- 4:	0411	0: : 2	04- 6	1M-	dDw
Bcwb mTG	2Sh71	6641NN4	6h4- 12:	6h126: :	6N- 2: : :	2M-	dDw
Bcwb mTG	2Sh72	- - S6460	- - 4h26S	- 2212: :	- 2h2- 20	1NN	dDw
Bpmb cOr	N171	1S: 01	11- 6-	11h- S	112NN	6NS:	dDw
5 sob cmb	1SN71	160	10h	101	102	- N0S	dDw
5 sob cmb	1S671	: - S1	: 11N	: - h-	: 201	2N06	dDw
5 sob cmb	11171	2: h-	20S0	26hh	2666	2M4S	dDw
5 sPlcmb	4- 71	2- 4h0N	2- : NS1	2- 6646	2- : NSN	SM:	dDw
5 sPlcmb	4471	- hh40SS	- h1N2Sh	41Sh0S4	4SS0: - N	2M41	dDw
5 spenC	1271	442604N	4: 00: 10	462S1N1	4: 414N2	2N24	dDw
5 spenC	1272	: : 04N	: 40S2	: 44N:	: 4h0N	1N2-	dDw
5 GPmpcOr	- : 71	2- : 110N6	201- 6606	2h222161	2662- : 41	1SNN:	dDw
5 GPmpcOr	- : 72	22- h0h	22NN46	2- 6: - -	22h0N6	2N0:	dDw
5 Gpmb cmb	: 272	2: 6N6	261S1	2: 22h	2: 602	1N0S	dDw
5 nesPT	: h72	- NSh1	- N241	- 04h-	- 0h42	1NS4	dDw
5 nDDr p	6- 72	64h- :	6- N1-	64SN4	64200	SM1	dDw
&EwDpnwcmb	1: 671	- N16- -	- N1h41	- NhS- S	- N42S1	1NSh	dDw
&EwDpnwcmb	1: 672	1: h- 1N	1: h6- 6	1: h6N1	1: h: 4:	SM12	dDw
Fpecmb	16471	- 1S- 6N	- 221: 2	- 22421	- 1N- 14	2M16	dDw
Fpecmb	16472	126hS2	1264hh	126N2:	126042	SM10	dDw
HsonPCcmb	16S71	- 2: 666	- 2- S- 1	- 24: 2:	- 244S0	SM41	dDw
HsonPCcmb	16S72	1: - N61	1: 4hh:	1: 1: S6	1: - 4: 4	1M16	dDw
y nPb cmb	16: 71	h6661Sh	hh4- hS1	1SS40: 62	hNN: N: 0	2NSS	dDw
y nPb cmb	16: 72	4- N166h	4- 2: 4h0	42S6: - h	4- S4: 6N	2NSN	dDw
tCocmb	11: 71	6hNN4SS	012: 6h-	0- N200h	016: 624	2N0h	dDw
tCocmb	11: 72	hN: : S2	hN2N- :	hN44: 6	hN426:	SM14	dDw
tpnC	: 472	421hh6S	42NS: N1	4- 266hh	420: 040	1N2:	dDw
tpnC	: 672	00: 660N:	0N1: SSh6	00- 0N1: 0	006hN- 46	SM12	dDw
tpnC	: 072	2S26: 6:	2S22: hh	2S14011	2S212h2	SMS	dDw
KpEDTnC	N- 71	602	6: 2	014	6NS	4N0S	dDw
Lr so	2S671	4- 01N-	4: - N- h	44- : S-	444N42	1NNh	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1N	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	- 62S- N	- 6: 0S6	- 6: - 24	- 64- : 6	SM:	dDw
Lr so	2SN71	104- h- h	1004104	10062N6	1064NSS	1N8-	dDw
LdTGmb	671	2: S: 002	26S- : 0:	2: 442SN	2: : 11N:	1M1-	dDw
9 sgOr wcmb	2472	66h11N	66: 002	66- Nh-	666261	SM4S	dDw
9 sOgsOr wr	: : 72	2N1- 04-	2N62: - S	2N41N- -	2N- h- 6h	SMN6	dDw
9 nPEeor Omb	h471	10h16	1- 46:	144N-	1: 2NN	1: M2:	dDw
9 nPEeor Omb	h: 71	hN62	hN62	1S212	hh0h	2N8-	dDw
9 nPEeor Omb	h671	116- N	12Sh0	12240	11hh4	2M04	dDw
9 nPEeor Omb	h071	6- 20	616S	: h6N	61: 2	2M12	dDw
9 nPEeor Omb	hN71	1: hS1	1: 4h2	1: h6N	1: 0N0	1M-	dDw
u r noEb cmb	1: S71	601006	6Nh- 0h	6N2: : :	6N12- 0	1MS	dDw
u r noEb cmb	1: S72	2SNhSh	2S: N22	2S6h- 2	2S0221	SM0:	dDw
u cdkr P	6S72	10h6N	1NS11	10NSN	10h2h	SM0S	dDw
8 GhwDGhpmw	- 172	- 2N4	2N42	- 1h2	- 1S6	0M1	dDw
8 nTswwcmb	- h72	6h: 01-	6h1h- S	6h21h0	6h- 2NS	SMS	dDw
. Ghocmb	1S- 71	6NN46S1	021: - h0	024hS6-	0116- : -	2MN-	dDw
. Ghocmb	1S- 72	- - - 11: 1	- - 1h260	- 21N4- -	- 2Nh610	1MN	dDw
I dsCocmb	4: 71	40SN044	4661h1S	4002- 6-	4014- - h	1MN	dDw
I dsCocmb	4: 72	1: 242S	1: 11NS	1: 1440	1: 16N2	SM4-	dDw
I r P Comb	N271	444	: 62	- h0	46N	1NM h	dDw
I r P Comb	0072	6NS	6: S	60-	66N	2M6	dDw
I r P Comb	0N72	4: 1	406	461	46-	2M02	dDw
I dPdnC	2N71	164- 1hS:	1601hSS2	16N: h- 1:	1660SS04	1M1	dDw
I dPr p	1S071	2: : h	24: h	242:	24N1	2MS	dDw
I dPr p	1Sh71	240:	2- 60	202:	2: 2-	0M2h	dDw
I nocmb	2- 72	6: S- 0	646S2	64216	6461N	SM04	dDw
I TpnCTcmb	N671	1N: - 06	1NN- 04	1N62- 1	1N666S	SMN-	dDw
I TpnCTcmb	NN71	10SSS60	16N- 2S2	1606- 04	16N6: 4N	SM02	dDw
I mPmp	- 471	20h012	2060: h	20- N- :	20606h	1N86	dDw
Ar pecmb	1: h71	1SS16S12	1SS: 4- hN	1S1- 4hh0	1SS6N46h	SM0S	dDw
Ar pecmb	1: h72	424162-	42- : S10	4101421	4216S2S	SM12	dDw
AGs PBmb	2S- 71	- 6: 1	- h: 1	- hh2	- N6:	4MN-	dDw
AGs PBmb	2S: 71	h1N0	NN0N	hSN0	hS: 1	1M04	dDw
AdC	11N71	2: : h1	24NhS	26- 6N	2: 616	2MNh	dDw
AdS Comb	4071	: Sh420	: S- 01-	: S01NN	: S6006	SM10	dDw
RpsComb	2- N71	1S4h66	1S6: h:	1S: 62S	1S: 020	SM0N	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP u sb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	4N6: h	4h1: 4	406S2	4N402	1M64	dDw
YTTr pe omb	10271	h04h2	h6h40	h: 6: -	h66h0	SM1N	dDw
YTTr pe omb	10272	40: : N	402SS	464S4	40S: 4	1M26	dDw
YTTr pe omb	10671	62S22	61661	641hS	62624	2M1N	dDw
YTTr pe omb	10672	41: 16	- h: S4	41621	4SNNS	2M12	dDw
YTTpomb	Nh71	16h1S0: 6	10- NSh6S	10- 06- 22	1022260h	1M10	dDw
YTTpomb	Nh72	1N41hN2	1NSh264	10N4: NN	1N11h44	1M1h	dDw
ZdCd	6672	hNh- :	h61h4	hNS1h	h0016	1M4-	dDw
ZqpdnComb	hS71	21060	221N:	22N11	222: 4	2M16	dDw
ZqpdnComb	h171	4NSh	: S06	: S4-	4h06	2M12	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdPP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCcmb	2072	661N6h	6 N10	6 - N44	6 0106	SM04	dDw
qCTb nCE	12171	- h26	- N h	- 610	- NS1	4M20	dDw
qpwr Ccd	0 72	hhh	hS2	h10	h- h	SMMN	dDw
Bspcmb	1- 71	126N	Sh4S1	112-	111S0	SM12	dDw
Bspcmb	1- 071	NN 020	hS1NSN	Nhh42S	Nh 6 2	SM10	dDw
Br pEPPmb	h71	20h0	20S	26 6	202S	2M04	dDw
Bcwb mTG	2Sh71	6h2h006	0104NS0	0Sh- 6h0	0S66Sh-	1M00	dDw
Bcwb mTG	2Sh72	- 2 1hN	- 262040	- 2SN24	- 24Shh2	SMMh	dDw
Bpmb cCr	N171	02N	0 6h	00- 6	0 - S	- MS2	dDw
5 sob cmb	1SN71	20	20h	201	20	1M1	dDw
5 sob cmb	1S671	4626	4242	42 1	4- 0-	MS1	dDw
5 sob cmb	11171	- 162	- 112	- - N2	- 21h	4M	dDw
5 sPlcmb	4- 71	40N26h	4N1 64	4N- 14S	4NShh1	SM12	dDw
5 sPlcmb	4471	NShS04S	NShShh-	N104422	N11N01N	SMh	dDw
5 spenC	1271	422 - N	011- 0S	N2hN0S	6 4 h-	- M01	dDw
5 spenC	1272	6h 1	6h- 64	6hS2h	6h- S-	SM16	dDw
5 GPmpcCr	- 71	2- 4hN- 1N	201h0h11	2h2 h20S	266 1N- -	1SM1	dDw
5 GPmpcCr	- 72	22 N41	220S60	2- 1h0N	22N2h	1M12	dDw
5 Gpmb cmb	272	4S6 N	- Nh0-	- h0N	- hNS	2M12	dDw
5 nesPT	h72	61010	61- 1	6SS0S	61S- 4	1M41	dDw
5 nDDr p	6- 72	2Sh- 12	21Sh 1	2S66h1	2SNhN	1MS-	dDw
&EwDpnwcmb	1 671	6h0 S	011hN	01S4N	0S66	1M1-	dDw
&EwDpnwcmb	1 672	2N4 S	2h- 22	2h2hh	2hS24	1M01	dDw
Fpecmb	16471	h 2	NNhN	hh 2	h4 N	SMMh	dDw
Fpecmb	16472	2- hN	2- h-	241N2	24S- 4	SM4	dDw
HsonPCcmb	16S71	6- hNN	64S1-	6444N	641 S	SM4S	dDw
HsonPCcmb	16S72	2h S6	2h Sh	- S012	2hhSh	2M12	dDw
y nPb cmb	16 71	1S1S4- h	1SS1hN 2	1SS- 0N0	1SS - - 44	SM4	dDw
y nPb cmb	16 72	41N 1N6	414- 62	41- NN2-	41 N0N	SM01	dDw
tCocmb	11 71	0 S2N 2	0- hS h6	0- 21h2-	04S 124	1M4-	dDw
tCocmb	11 72	h N240	h- NNhS	h - 4h0	h S211	1MS6	dDw
tpnC	472	- hN110	- N44 66	- N0- 2hh	- Nhh6NS	1MM	dDw
tpnC	672	01 S N	011N 01	6h- 0N01	0S6N- S 0	1M04	dDw
tpnC	072	1N40421	1N- 14- 4	1N1h0-	1N- 2N6-	SM06	dDw
KpEDTnC	N- 71	- 20	- -	- - 4	- - 2	1M21	dDw
Lr so	2S671	4- 4 -	66	N0- S	2 N-	1M46	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	462SSh	460h6	46- 441	464402	SM60	dDw
Lr so	2SN71	216S216	21h0NS0	21N- 6 -	21NS h	SMM0	dDw
LdTGmb	671	2 Nh6hN	262146N	264h004	262S- 1-	1M1	dDw
9 sgOr wmb	2472	16 S6NN	1626 20	164N6S-	1641h- h	SMM2	dDw
9 sOgsOr wr	72	122h22S	11hNS16	12S24hN	12Shh11	1Mh	dDw
9 nPEeor Omb	h471	10144	106S-	10N0S	10 - h	2MSh	dDw
9 nPEeor Omb	h 71	1ShS	1S001	1S0NS	1SN1N	SM0h	dDw
9 nPEeor Omb	h671	126N1	1- 61	1- 6S0	1- - S1	4MS4	dDw
9 nPEeor Omb	h071	601N	6N-	60 2	606N	SMMh	dDw
9 nPEeor Omb	hN71	104h	1020N	16N6h	10214	1MM	dDw
u r noEb omb	1 S71	111- h1	11 62N	112hh0	11- - - h	1MMh	dDw
u r noEb omb	1 S72	- 42 S	- - - N	- 4N12	- 414S	2M1	dDw
u dkr P	6S72	- - h 4	- 41- 4	- - h44	- 4S11	SM1	dDw
8 GhwDGhpmw	- 172	0h20	0 S2	NS00	0N- 6	- MM1	dDw
8 nTswwmb	- h72	N2N0S	0 0N6	h1S- 1	N- 22h	1M1	dDw
. Ghomb	1S- 71	020 Sh6	02106S4	01016N-	0221461	SM02	dDw
. Ghomb	1S- 72	- 16N S	- 1hh21	- 1NN01-	- 1N 4h-	SM4h	dDw
I dsComb	4 71	4N016 h	46N212S	4N1N- N-	40hS02S	2MS4	dDw
I dsComb	4 72	14 N0h	14 2- 6	14 SS-	14 - 0-	SM1	dDw
I r P Comb	N271	226	24S	2- h	2-	- M24	dDw
I r P Comb	0072	10S	140	12-	140	1 M1	dDw
I r P Comb	0N72	1S6	12-	116	11	0M4-	dDw
I dPdnC	2N71	140NN- N0	14h10- 66	1 S- 02Sh	14h14- 21	SMM-	dDw
I dPr p	1S071	4- N4	4 06	444-	4460	2M2S	dDw
I dPr p	1Sh71	41- 4	44N4	4- - 4	4- 10	4MS0	dDw
I nomb	2- 72	6h010	602h0	66S60	606h4	2M04	dDw
I TpmCTomb	N671	2h1641	2Nh061	2h4S2N	2h1N1S	SM0-	dDw
I TpmCTomb	NN71	2600NS-	261- 1N2	266h4- N	26 - 404	1M2	dDw
I mPmp	- 471	- 1S4 1	- 102- 4	- 1- S0-	- 1- N6	1MSh	dDw
Ar pemb	1 h71	1S64- hS-	1S1 0N44	1S- 40S 6	1S- N2h- 4	2M6	dDw
Ar pemb	1 h72	4SN S- 2	4S - - -	4Sh14	4S0661-	SMS	dDw
AGsPmb	2S- 71	- S42	- S S	- S h	- S S	SM20	dDw
AGsPmb	2S 71	661S	0044	6hN	011-	NM2	dDw
AdC	11N71	h14	h4 4	h20N	h2h2	1M60	dDw
AdSComb	4071	h 1 0	h4646	h46 -	h4N1h	SM1	dDw
RpsComb	2- N71	61SN1	6- - S1	610N	62S 6	1MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:u sb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	172	NSN2-	NS4SN	NSS06	NS4- 6	SM40	dDw
YTTr pe omb	10271	1N6- S	1N664	1N0S	1N666	SM2S	dDw
YTTr pe omb	10272	h2 h	NhhN	h2S-	h1 -	1MS	dDw
YTTr pe omb	10671	1- - 04	1- 666	1- 1- 2	1- - hS	2M8S	dDw
YTTr pe omb	10672	166- N	16N60	16hh	16N- -	1M80	dDw
YTTpomb	Nh71	14- h41- 2	1- N112N-	14Sh2h21	14Shh446	2M80	dDw
YTTpomb	Nh72	14- hS N	14S2S6	142- SN	1421 44	1M1	dDw
ZdCd	6672	hh62N	hN N0	hh110	hh111	SM2	dDw
ZqpdnComb	hS71	- S406	2h04h	- S442	- S222	1M6	dDw
ZqpdnComb	h171	64h-	6- 6N	6N00	6 NS	4M8-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d8be q dpe	2072	4a00- 0	: S: - u-	: SS2: 6	: S112:	SR0u	Ol l
d. iqe C. E	12171	- 606	- u- 4	- 6- 4	- 01:	2Ru4	Ol l
dll p. qO	0: 72	6014	66a6	60a4	60- :	SR00	Ol l
Bwldpe	1- : 71	- : S426	- : 21a:	- 4: : 46	- 4a- ua	SRaa	Ol l
Bwldpe	1- 071	620a: :	61: 266	61: 6Su	61a61S	1R10	Ol l
BplE&dpe	a71	2- 4:	2- 64	220:	2- 2u	2RS1	Ol l
Bdqe biG	2Sa71	66Saa6u	6a: Su4:	6ua: - 0u	6u1u0- S	2R6u	Ol l
Bdqe biG	2Sa72	- 201u- 4	- 2S1uau	- - 2211u	- 26: 2u-	1Ru:	Ol l
BlOe q p	u171	611u	66- :	616u	6- S0	4R.2	Ol l
9 wne dpe	1Su71	160	22:	260	21a	22Rua	Ol l
9 wne dpe	1S671	41u4	446u	4- u4	4- 4:	- R :	Ol l
9 wne dpe	11171	2: au	2u2-	26aS	20S-	4Rla	Ol l
9 w&Odpe	4- 71	: - u1: u	: 4Su0u	: - 26- :	: - 0224	SR0u	Ol l
9 w&Odpe	4471	aS2016S	a- S1661	ua2- 120	aSu- au-	2R1:	Ol l
9 wlr C.	1271	- 2aaaS6	- 41- 241	- - 2S- 1:	- - 444u0	1Ru1	Ol l
9 wlr C.	1272	4S- 64	4SS14	4S4ua	4S2ua	SR61	Ol l
9 G&Clq p	- : 71	226u: uu4	26a402Su	2u060- 2a	261- - 404	11Ra4	Ol l
9 G&Clq p	- : 72	210- 0-	22- S- 1	22: 2ua	221uau	1Ru4	Ol l
9 GlOe dpe	: 272	- 216-	- 10S:	- 2Saa	- 1aua	SR0u	Ol l
9 Or w&	: a72	020- 1	02S6u	012- 0	02S12	1RS4	Ol l
9 Ot t pl	6- 72	1auu: 0	1a: 024	1a6u01	1a01: 1	SRuS	Ol l
TEl t lOl dpe	1: 671	60022	0S- 1S	660a-	6u20:	2R60	Ol l
TEl t lOl dpe	1: 672	2u166	20006	2u21S	2uS: 1	SRu:	Ol l
Ulr dpe	16471	: 0ua4	: 02- 2	: a: a2	: u2- a	2RSa	Ol l
Ulr dpe	16472	2- u0:	2- a02	2- 6: 4	2- u- 4	SR6u	Ol l
HwnO&q dpe	16S71	61u2u	: au26	61- : S	61SS1	1R01	Ol l
HwnO&q dpe	16S72	2aS4:	2a: 4-	2a12:	2a2- u	SRa1	Ol l
h O&e dpe	16: 71	a2: S: : a	a02a6u0	aaS4uu6	a62u- 00	- R.2	Ol l
h O&e dpe	16: 72	41414u2	41606a4	4- 1uS01	42SaSu2	2R26	Ol l
& ndpe	11: 71	60: 004u	6a6: - 6a	01210: 6	6a4u2a1	2R6-	Ol l
& ndpe	11: 72	a: 2: - 6	a: 466:	a6- u22	a: 0SSu	SR6-	Ol l
&C.	: 472	- aa1aSS	- u- : 1S:	- u: 6- 40	- ua44: 1	2R1u	Ol l
&C.	: 672	0S01- 1: 0	6a2uSS00	0SS- u: 1:	0SS1S: u-	1RS2	Ol l
&C.	: 072	1u62a00	1006402	1uS6u2a	1u1: 426	2R42	Ol l
KlEt iC.	u- 71	- 66	- - 0	- 10	- 4S	0R2S	Ol l
Lpwn	2S671	: 1uS- u	: 1au2u	: 10- 1u	: 1u- a:	SR2:	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	42- 226	42a: u4	42a1a4	420- - :	SRu-	Ol l
Lpwn	2Su71	2S110Su	2S- 6122	2S2u10:	2S2: - - :	SR61	Ol l
LqiGdpe	671	2401104	2: 6S: aa	2: uS11S	2: - 02a4	2R2a	Ol l
y wg. pl dpe	2472	1216- 4:	12- 2110	12261Sa	1224u: 0	SR6:	Ol l
y w. gw. pl p	: : 72	16aSS6:	166a04u	160u66S	160a4a1	SR61	Ol l
y O&Er np. be	a471	2SS1:	2S016	2S: 04	2S4- :	1Ru1	Ol l
y O&Er np. be	a: 71	14u2:	1: 1Sa	140: u	14ua0	1R2:	Ol l
y O&Er np. be	a671	1uu1-	1u2: 4	1u66-	1u: 00	1R6	Ol l
y O&Er np. be	a071	a- 2S	a: 0S	a62a	a: S6	1R02	Ol l
y O&Er np. be	au71	240- a	24614	242uS	24: 44	SRa0	Ol l
mpOnEe dpe	1: S71	11S40u	11Su6u	1S0: 2u	1Sa624	1R60	Ol l
mpOnEe dpe	1: S72	- - 4S:	- - : 0:	- 2040	- - 242	1R2	Ol l
mqOkp8	6S72	- au1a	4S1u0	4S11-	4SS4S	SR4a	Ol l
NGOl t GOlbl	- 172	: 206	: : Sa	: 1: a	: - 1:	- R :	Ol l
NOiwl dpe	- a72	- - 4- 12	- 216a1	- - SSau	- 2u0SS	1Ra:	Ol l
F GOndpe	1S- 71	64u0: : S	0S1S2- S	0S1: u0a	6u- 0uu6	4R44	Ol l
F GOndpe	1S- 72	- 21- 0S0	- 2S: 6S4	- 2- 210-	- 210161	SR42	Ol l
DOw. ndpe	4: 71	4- 4a6uS	46a: u- 2	4: 460: :	4: - S0: 6	- Ru-	Ol l
DOw. ndpe	4: 72	146: - :	14a- 0u	140- 0u	140064	SRaa	Ol l
Dp&p. dpe	u271	2: 6	214	2: 0	242	1SR20	Ol l
Dp&p. dpe	0072	12-	14S	1: 0	14S	11RaS	Ol l
Dp&p. dpe	0u72	1S1	111	1S-	1S:	: RS4	Ol l
Dq&qOC.	2u71	1Sa01616	11- : 14a-	1Sau0Su4	111S- - au	1Ra4	Ol l
Dq&vpl	1S071	: 126	40u4	: S- 4	4au2	- R :	Ol l
Dq&vpl	1Sa71	4uS1	4a06	4a: a	4a12	1Ra0	Ol l
DOndpe	2- 72	06a4:	0u062	0u126	00a44	1R1u	Ol l
DilC. idpe	u671	20S214	26u4u:	26a- : 2	26a- : S	SR2	Ol l
DilC. idpe	uu71	24: 2: 1:	24u2: : u	2460- - a	2460401	SR61	Ol l
Db&bl	- 471	: 60: 00	: 0u0: 2	: 0- aaS	: 0- 4- a	SRau	Ol l
cplr dpe	1: a71	a6- 0: : 1	1SSa1Saa	1SS646S0	aa- 1Su6	2R6	Ol l
cplr dpe	1: a72	- a66416	4S1SS12	4S0u0SS	4S1u- 06	1R41	Ol l
cGw&&pe	2S- 71	2460	20: S	26: S	262-	: R4u	Ol l
cGw&&pe	2S: 71	6220	61a-	: u00	6Saa	- R10	Ol l
cq	11u71	a012	au- 0	a2a:	a61:	2Ra:	Ol l
cqiw. dpe	4071	04400	02a1a	0- 0aa	0- 0- 2	1RS6	Ol l
5 lw. dpe	2- u71	6a6- -	6u0a:	666u4	6u- 01	2R22	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndqe	: 172	01a00	02141	012u0	01uS1	SR6-	Qil
Yiiplr qe	10271	1u4: :	1a24u	1a114	1ua- a	2R24	Qil
Yiiplr qe	10272	a- : a	ua2:	uuSa	aS- 1	- R21	Qil
Yiiplr qe	10671	1- 26:	1- 616	1- 1: 0	1- - 46	1RuS	Qil
Yiiplr qe	10672	166ua	16u- -	16a: 6	16u26	SR0a	Qil
Yiilqe	ua71	1- S2: SS1	1- : u41aa	1- 0a: 264	1- 46u1: 4	2Ra6	Qil
Yiilqe	ua72	14121: S	14- 4200	141u: 4u	14216: u	SRuS	Qil
Zq O	6672	u1660	u1600	u1- 2:	u1: : 6	SR2:	Qil
Zq OC. qe	aS71	- 21S:	- 2: uS	- 2112	- 2266	SRu4	Qil
Zq OC. qe	a171	02- :	026S	6a00	01: u	2R1a	Qil

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	41y41S	4106S4	4141J0	410S60	SU64	ql w
cn&Amonh	12171	- 410	- E60	- 0Ey	- EJ1	4U0J	ql w
crwenAq	0E72	2- S6	22J0	22J6	22y-	SU4y	ql w
BsrAm	1- E71	- E6J0E	- EE- SS	- 406y4	- E- 2Jy	1UJy	ql w
BsrAm	1- 071	6- ES1-	6- - 20y	61y- 21	62y2SE	1UJ0	ql w
BerhPAm	y71	- JEJ	- y- y	- 00-	- JE6	2U16	ql w
BAmu&G	2Sy71	6J661- y	6JJ- S6E	6y61ySJ	6yS- 0S4	SU04	ql w
BAmu&G	2Sy72	- 1J02E2	- 2S44S1	- 2- 1S12	- 2S0EEE	SU6y	ql w
BromAne	J171	EyS1	EyS1	E0- E	EJ46	1U6E	ql w
RsOmAm	1SJ71	- E4	- ES	2J-	- 2y	12USJ	ql w
RsOmAm	1S671	441J	46Sy	4JS1	46Sy	4U16	ql w
RsOmAm	11171	2- - 6	220S	22- 2	220y	2UJS	ql w
RsRqAm	4- 71	4SE2- 0	4Sy464	4S- E02	4S6Sy1	SU0E	ql w
RsRqAm	4471	6JEE46-	01- J1EJ	604SE02	6y11- yJ	2Uy6	ql w
Rsrbon	1271	- JJJEy2	4112E- 0	41442S-	4S4J444	- U44	ql w
Rsrbon	1272	4y10E	4yy6S	4061y	4Jy1J	2U44	ql w
RGPrAne	- E71	2- S46- JE	20S- 16- 6	2yS2S- J1	26- 661- 4	11UE4	ql w
RGPrAne	- E72	21JJ46	22161S	222262	22SyS6	SUJ2	ql w
RGromAm	E272	22yy2	22011	22y4E	22JJ-	SU66	ql w
RobsR&	Ey72	2Jy2y	2JJSy	2J2- J	2J6Ey	1U2y	ql w
RoI I er	6- 72	6- 4y1	6- 1J0	62JS2	6- 16S	SUEE	ql w
t hwI rowAm	1E671	J016J	J6J66	J46E1	J622J	1UEy	ql w
t hwI rowAm	1E672	- 6SEE	- 41y4	- E2ES	- E166	2U6E	ql w
. rbAm	16471	6- EJ6	62121	61J00	62E2J	1U4J	ql w
. rbAm	16472	2EESE	24EJ6	2ES64	2ESE2	1UJ-	ql w
HsOoPAm	16S71	0EJ- 2	0- 046	02041	041S6	2U1-	ql w
HsOoPAm	16S72	- 4y22	- 42S4	- E4J0	- 4J01	1UJ4	ql w
9 oPmAm	16E71	y066- 6y	y06S21y	y0EySJS	y061JyS	SUS4	ql w
9 oPmAm	16E72	4114JSy	4160y- 4	4SJJS26	412- EyS	SUyy	ql w
DnOAm	11E71	0SSJ066	01S4EJE	01- E0E6	0SJ- S- 6	SUy-	ql w
DnOAm	11E72	y- 4- 42	yES2E1	y4SSJJ	y41E6S	SUJ6	ql w
Don	E472	1J2S146	1JES441	1J46202	1J- JyE-	SUJy	ql w
Don	E672	- - 44S- Sy	- - - 2Syy4	- 211J6yS	- 2yEyyy0	2U22	ql w
Don	E072	0y41Ey	0y- 21E	00y2Ey	0JJJ00	1US6	ql w
Krhl &on	J- 71	- E4	- SE	- 2E	- 2J	0U40	ql w
LesO	2S671	E- 14E6	E2224y	E1JS06	E2- y20	1UJ1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	442J6J	441J61	4- S4- S	4- J- J6	1UEJ	ql w
LesO	2SJ71	2S60SSS	2S660y4	2S4S- 2E	2SEJS4S	SU0E	ql w
LA&GAum	671	2E0y22-	2E40J- y	2EJ414J	2E0S4S-	SU00	ql w
5 sgnewAum	2472	04E12S	0E4ES1	0662J2	0EE- S1	1U4S	ql w
5 sngsnewe	EE72	4- E2yy	4- 0y- y	4- - 2y2	4- EE1S	SUE4	ql w
5 oPbOenum	y471	E1y0-	E- SS2	E12S-	E2SEy	1U0-	ql w
5 oPbOenum	yE71	4410	4J26	4E26	4EyS	4U61	ql w
5 oPbOenum	y671	12014	1- 22-	1- 4E0	1- 1- 2	2UJy	ql w
5 oPbOenum	y071	2- 42	2J60	2y10	20Sy	11U06	ql w
5 oPbOenum	yJ71	0Ey4	6yS2	02y4	026-	4U0J	ql w
NeoOhmAum	1ES71	1E4yJJ	1EE11-	1EEJ1E	1EE- SE	SU2y	ql w
NeoOhmAum	1ES72	4E1yy	4E126	44661	44yyE	SU6E	ql w
NAqkeP	6S72	14y- E	1E1JE	1E2- 2	1E110	1US6	ql w
8 GowI Goruw	- 172	ES1J	E2Ey	E24-	E10-	2U61	ql w
8 o&swwAum	- y72	41210y	4SySJ4	4S1- y4	4S0EE-	1U-6	ql w
CGoOAum	1S- 71	01- 0126	01SySE0	0S- SJ02	0Sy2- E2	SU0J	ql w
CGoOAum	1S- 72	- 141JS6	- 2216- 6	- 1ES060	- 1014S-	1U-J	ql w
pqsnOAum	4E71	46- 4- 46	400J202	46- 6S44	46J2JJ0	1U06	ql w
pqsnOAum	4E72	14E- Ey	14E2y-	141yS6	1441J6	1U-0	ql w
pe&enAum	J271	1- 0	1yy	162	166	1JUE2	ql w
pe&enAum	0072	1E0	1- -	10-	1E4	1- US1	ql w
pe&enAum	0J72	12S	11S	1SE	112	6UJ4	ql w
pAqon	2J71	1- SJS261	1- Sy606J	12y- 0- 01	1- S- J1- -	SU60	ql w
pAer	1S071	- yE1	- y60	- J26	- y1E	1UyJ	ql w
pAer	1Sy71	42Sy	- y42	- 060	- y0-	EU6S	ql w
poOAum	2- 72	E262y	E1y6S	E2411	E2- - -	SU6E	ql w
p&ona&Aum	J671	1yJEyJ	1yy200	1y406y	1y0E4J	1U2-	ql w
p&ona&Aum	JJ71	1J142SS	10J44E6	1JS1- 06	1JSSS11	SUJ-	ql w
pu&Pur	- 471	2y62Ey	- SS4EJ	- S142S	2yy- 0y	SUy2	ql w
i erbAum	1Ey71	yy1- 06-	yJ4E406	y02yJ64	yJ2y0S1	SUyE	ql w
i erbAum	1Ey72	4S66E46	- yy2y- 2	4SSJJ26	4S2206J	SUy6	ql w
i GsPAum	2S- 71	1ESJ	10y2	14EJ	1EJ6	11U--	ql w
i GsPAum	2SE71	- E06	- Jy2	- 4E1	- 6- y	6U26	ql w
i A	11J71	1EJE1	16100	16600	162- E	2UE6	ql w
i A&snAum	4071	1- 0S10	1- yESJ	1- 04SE	1- 0y00	SUy0	ql w
MrsnAum	2- J71	6E126	66224	6- 22E	64JEJ	2U-4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF2-	t A&on Fsq&or :	1
t s&e T i Ame c qduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	E172	442yE	4- Jy0	4420J	441E0	SUE1	ql w
Y&erbAum	10271	16y0S	10E62	10S2J	101J0	1UyS	ql w
Y&erbAum	10272	J440	J614	J2J6	J44y	1Uy4	ql w
Y&erbAum	10671	12214	1- J- -	12J4J	12y6E	6U2y	ql w
Y&erbAum	10672	166ES	162EE	16- - -	16412	1U20	ql w
Y&&Aum	Jy71	1- E1- - 0J	1- y42- 16	1- 0yE1- 2	1- 0ES20E	1UEy	ql w
Y&&Aum	Jy72	1- 2yJEJ	141- ESS	142- E2J	1- JJy62	- U0S	ql w
ZAnq	6672	622J-	62E6J	6140-	621SJ	SUy1	ql w
ZAqonAum	yS71	1- 210-	1- 2- 41	1- S4EJ	1- 16E0	SU0y	ql w
ZAqonAum	y171	2y- - 2	2yJ- -	2J6JS	2y2J1	1Uy0	ql w

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LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tuwb r :J	N
5 8r CTl wb D8 :t&:J	9 y SU2- &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	41 41h	41ah1-	41 462	410ah	SMa	dDl
qCTb nCE	12171	- 4ah	- 6h2	- 6 4	- 612	- M0	dDl
qpl r Ccl	0a72	2- - S	2- S1	2201	2- S1	1M2	dDl
Bwpcmb	1- a71	- a- 1h-	- 614h6	- a6- 41	- a0S1S	1M10	dDl
Bwpcmb	1- 071	62200S	64- S- a	6- - - 00	6- - S61	1M8S	dDl
Br pE8mb	h71	- 02a	- 04a	- 0 1	- 0aS	SM06	dDl
Bdl b mTG	2Sh71	6 aSa62	02a	6h 21ha	0S- Sa4	2M16	dDl
Bdl b mTG	2Sh72	- 2h- a06	- 22S S1	- 2- 0a06	- 2aS6a1	1M10	dDl
Bpmb cCr	171	a - a	6- S2	61a2	6Sh6	- M11	dDl
5 wob cmb	1S 71	- 10	2	- S	- S4	4M14	dDl
5 wob cmb	1S671	4a06	4a26	42Sh	44- 0	4M4	dDl
5 wob cmb	11171	2411	2- 00	22h0	2- 62	2M4	dDl
5 w8lcmb	4- 71	4S2S 1	4S6S -	4S4110	4S4Sh4	SM4S	dDl
5 w8lcmb	4471	600S1- S	6h4- a- 2	602ahS6	6 1- 1 h	1M8h	dDl
5 wpenC	1271	- 0h 6a1	- hh2h0h	4SS2440	- h- 1- ah	2M1-	dDl
5 wpenC	1272	400 0	4h66S	4 - - S	4 ah2	1M1	dDl
5 G8hpcCr	- a71	2- S 1a0S	26h- 4h02	2 04216-	262a2hS2	11M81	dDl
5 G8hpcCr	- a72	216h- 2	222a0-	224h6	2214h1	1M6	dDl
5 Gpmb cmb	a272	22ha	22 42	22a4a	220 2	SM14	dDl
5 new8T	ah72	2ha- 1	2 a42	2h0aa	2h206	2M2S	dDl
5 nDDr p	6- 72	640S-	64 01	641a0	64a00	SM4	dDl
&El Dpnl cmb	1a671	4- 0a	Sh	aa- -	6SS2	2M22	dDl
&El Dpnl cmb	1a672	- 466	- 42h1	- 6S a	- aS1a	2M0S	dDl
Fpecmb	16471	6444h	661S0	64a41	6aS- -	1M4-	dDl
Fpecmb	16472	2aS- 4	2aS04	2aa2a	2a211	1M8	dDl
Hwon8Ccmb	16S71	02440	0a hS	06220	04 aa	2M0h	dDl
Hwon8Ccmb	16S72	- 4421	- 404a	- 464	- 46Sa	SM4	dDl
y n8b cmb	16a71	h 6001a	1SaS160a	1SSSS226	1S12- 2S6	- MS	dDl
y n8b cmb	16a72	422SaS4	422- 2-	4220Sh	422- 61-	SM8	dDl
tCocmb	11a71	0S0621-	0a00h0S	0- 616aS	0- - 611	- M4-	dDl
tCocmb	11a72	h64a 2	ha01-	ha44a6	ha 026	SM4a	dDl
tpnC	a472	1 01h 6	1h102 6	1 4Sh22	1 060- 1	2M8a	dDl
tpnC	a672	- - 6h446	- - 000406	- - 4a0h2	- - 002a0h	SM22	dDl
tpnC	a072	0h60h2	S- 660	0h61a2	0h 01	SM42	dDl
KpEDTnC	- 71	- - a	- - S	2h4	- 2S	0M84	dDl
Lr wo	2S671	a2a21a	a- 16aa	a2h4- S	a2 060	SM02	dDl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tuwb r :J	N
5 8r CTl wb D8 :t&:J	9 y SU2- &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :uwb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S071	420- 44	44- aa	442- S	4- 00- 0	2M86	dDl
Lr wo	2S 71	2S- Shh0	2S 4- S0	2Sah01	2Sa - 41	1MS	dDl
LdTGmb	671	2a- 4224	26h0 -	262 12a	262SS00	- M-	dDl
9 wgCr l mb	2472	0aa0	0a40	04- 0-	0a14 -	SM	dDl
9 wCgwCr l r	aa72	446642	441144	442200	44- - a4	SM8a	dDl
9 n8Eeor Cmb	h471	aS 1h	a1 - h	a- 6S4	a2S 0	2M01	dDl
9 n8Eeor Cmb	ha71	4aSh	40h-	4a6	462-	- M24	dDl
9 n8Eeor Cmb	h671	1- ShS	1- 2hS	141hh	1- a26	4M0	dDl
9 n8Eeor Cmb	h071	- 1 4	2h- 4	2h- 4	- S10	4M0h	dDl
9 n8Eeor Cmb	h 71	0661	0hS2	02S2	0a	4M8h	dDl
u r noEb cmb	1aS71	1aSah0	1a0Sa6	1a- a4	1a- - a	2M1S	dDl
u r noEb cmb	1aS72	4a4 0	4a	4400a	4a- -	1M24	dDl
u cdkr 8	6S72	1a422	1a111	1a16a	1a2- -	1M8h	dDl
NGhl DGhpml	- 172	a106	a- 4-	a2- 4	a2a1	1M61	dDl
NnTwl l cmb	- h72	41- 1hh	4S- 4aS	411 4-	4Sh4h0	1M2h	dDl
. Ghocmb	1S- 71	0S64h- 2	04140ha	0Sa6- S6	010 60	2Ma	dDl
. Ghocmb	1S- 72	- 24001a	- 222 44	- 2Sh4a4	- 226601	SM8S	dDl
l dwCocmb	4a71	462a26a	4 141-	46S06 S	40S40 6	- M26	dDl
l dwCocmb	4a72	14a246	1460hh	1464a	14616	SM46	dDl
l r 8 Ccmb	271	1a1	121	211	161	2 M42	dDl
l r 8 Ccmb	0072	1- 0	1 0	1- -	1a2	1hM0-	dDl
l r 8 Ccmb	0 72	hS	1S	1S-	1SS	hM26	dDl
l 8dnC	2 71	120Sh6aS	12ha- 6a	1- 24SSS0	12h60002	2M8a	dDl
l 8vr p	1S071	- - 4	4Sa1	- h06	- ha-	2M0	dDl
l 8vr p	1Sh71	- 0Sh	- 10	41 4	- hS-	6M	dDl
l nocmb	2- 72	a44a-	a2 6-	a4- Sh	a- 0a	1M0-	dDl
l TpnCTcmb	671	1h- h00	1hh a	1h0a10	1h011	1M4S	dDl
l TpnCTcmb	71	104024h	1 - h- 62	1 - S1aS	1 Saa 0	2M1	dDl
l m8mp	- 471	2h a2h	- S2S 2	- S2662	- S1Sh1	SM04	dDl
Ar pecmb	1ah71	1SS266-	1S 42a62	1S2SS064	1S- a66aa	4M1a	dDl
Ar pecmb	1ah72	41SS40S	4S6- 6 1	4116- 40	4Sh- 4hh	SM06	dDl
AGw8mb	2S- 71	1a- -	1- a	16S	1aSS	M4a	dDl
AGw8mb	2Sa71	- 642	- a1	- 4	- 0h2	- M4a	dDl
AdC	11 71	16S a	16- 00	1a6- 4	16S- 2	2M-	dDl
AdTwCcmb	4071	1- 6- 12	1- 0a04	1- 4S4S	1- ah0a	1M12	dDl
RpwCcmb	2- 71	64S0S	6a444	6a4 6	6aSSS	1M24	dDl

700

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tu wb r :J	N
5 8r CTI wb D8 :t&:J	9 y SU2- &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a172	4a2aa	4412	4- hh4	444ah	1M46	dDI
YTTr peomb	10271	1024a	1 2h6	104ha	1060h	- M11	dDI
YTTr peomb	10272	16h	2h2	014	- h2	- M41	dDI
YTTr peomb	10671	12 2-	126S6	1- 416	12h4	- M4-	dDI
YTTr peomb	10672	16hSS	16S01	1664h	16a4S	2M40	dDI
YTTpomb	h71	1- 66 S1-	14046- 46	1- 1026	14Sh 6ha	4M8a	dDI
YTTpomb	h72	14- - - 40	1- a4446	14Sa642	1- h0 12	2M6	dDI
ZdCd	6672	61 - 1	6- 424	61 h	62- 4	1M44	dDI
ZqpdnComb	hS71	1- 10h6	1- 64- 2	1- 44- S	1- 421h	1M0-	dDI
ZqpdnComb	h171	- 1S6S	- S2SS	2h44S	- S2- -	2M6	dDI

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LB Number :	LB1264C3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430C3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHCF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2C2- 0C3012 16:CJ:2-	DstsFiRe Nsme :	C32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23C2	36J49	3JC9C	3J139	333C6	C.96	cpw
Antimony	12101	6CJ	313	JCJ	311	14.CJ	cpw
Arwenic	37C2	43C	- 9-	422	42J	9.CJ	cpw
Bsrium	1- 701	64- 74	6- 727	661C7	64661	2.C4	cpw
Bsrium	1- 301	11C3JJ	116921	116217	114641	2.9-	cpw
BeryRium	901	632	311	679	6J1	4.CC	cpw
Biwmuth	2C901	631- 436	6646262	63CC244	66J6661	C.7-	cpw
Biwmuth	2C9C2	- 174JJ6	- 1- 3- J-	294616-	- C39433	- .36	cpw
Bromine	J101	4636	464-	4- 6J	4762	- .31	cpw
Csdmium	1CJ01	37	1CJ	37	J6	22.- 7	cpw
Csdmium	1C601	- J36	- 371	4C13	- JJ1	- .44	cpw
Csdmium	11101	39J	634	366	346	J.79	cpw
CsRium	4- 01	32C9-	3- JC9	3- 14C	3- C14	1.1J	cpw
CsRium	4401	124C3C1	12J1273	1234C99	1267- 72	1.31	cpw
Csrbon	1201	269C397	2693193	2373- 13	23171C-	1.- 7	cpw
Csrbon	12C2	- 1J6J	- 2J29	- - C46	- 27J1	1.92	cpw
ChRrine	- 701	1C- 93J27	1C431C9-	1C- J4C34	1C413664	C.47	cpw
ChRrine	- 7C2	6966J	69663	6J3C4	69- 46	C.JC	cpw
Chromium	72C2	71CJ	724J	7- 61	72- 9	2.42	cpw
CobsRR	79C2	7- 21	7- 91	71J1	729J	2.C2	cpw
Copper	6- C2	12- 32	12749	12676	12726	1.14	cpw
Dywprowium	1760 1	17136	17679	17- 13	17- J4	1.62	cpw
Dywprowium	1762	6J12	6- 77	63J7	6671	- .J6	cpw
Erbium	1640 1	114- C	11793	117JC	117- 6	C.JC	cpw
Erbium	1642	4331	4661	476J	4666	2.1J	cpw
GsdoRRium	16C01	1- 999	1- 6- 2	1- 316	1- 3J2	1.4C	cpw
GsdoRRium	16C02	647J	6632	6772	6761	1.6-	cpw
HoRRium	1670 1	9J74C41	979C33-	972J4C6	967334C	1.39	cpw
HoRRium	1672	41C29- 2	41JJC49	- J276- 3	4C- JJ3-	4.69	cpw
Indium	1170 1	6973164	3C77611	3CJ919-	3C- - 9J9	C.9J	cpw
Indium	1172	9- 1412	942971	JJ262-	91J997	- .4J	cpw
Iron	74C2	- 1319C	- 241- 1	- 226- 7	- 21- 19	1.14	cpw
Iron	76C2	61764J9	6267772	627- 192	6227C3J	C.96	cpw
Iron	73C2	1471JJ	14JJ42	143C96	143C42	1.24	cpw
Krypton	J- 01	2J3	- C4	233	29C	4.7J	cpw
Lesd	2C601	94417	96- - 4	936- 2	96123	1.6J	cpw

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LB Number :	LB1264C3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430C3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHCF2- L	DiRition Fsctor :	7
Dste & Time Acquired :	2C2- 0C3012 16:CJ:2-	DstsFiRe Nsme :	C32AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2C301	3J467	JC236	JCJ71	39J64	1.76	cpw
Lesd	2CJ01	- 3- - 96	- 37374	- J1444	- 36J67	1.1C	cpw
Lithium	601	2461J99	24- 6J4J	272- 24J	243- 99J	1.JC	cpw
Msgnewium	24C2	1- 3- C2	1- 673J	142227	1- J3C2	2.22	cpw
Msngsnewe	77C2	J1C67	J- 466	J294-	J2491	1.7-	cpw
MoRybdenum	9401	96J3	9- 2J	977-	972-	1.9C	cpw
MoRybdenum	9701	913	3J-	J92	J64	J.2C	cpw
MoRybdenum	9601	26C9	2279	27- 4	2463	3.43	cpw
MoRybdenum	9301	4CJ	763	77C	7CJ	13.12	cpw
MoRybdenum	9J01	1427	1437	12CJ	1- 3C	1C- 7	cpw
Neodymium	17C01	26JC1	233- 6	23- C1	23239	1.32	cpw
Neodymium	17C02	J2C9	J43-	J4J9	J- 9C	1.J3	cpw
NickeP	6C02	2JC3	- C24	2314	2J4J	7.79	cpw
8howphoruw	- 1C2	1C63	992	97C	1CC-	7.9C	cpw
8otswwium	- 9C2	J- C9J	J- 291	J- 6C1	J- - - C	C- C	cpw
Rhodium	1C- 01	69222- J	3C121J2	637174-	6J97- 21	1.92	cpw
Rhodium	1C- C2	- 146- 92	- 1471J4	297- - - 6	- CJ16- 3	- .61	cpw
Scsndium	4701	4463717	4716979	4434- 22	44J6267	C.6C	cpw
Scsndium	47C2	142- - J	142J67	1- 4666	1- 9976	- .2J	cpw
SeRenium	J201	7	04-	017	01J	01- 6.2J	cpw
SeRenium	33C2	4C	- 3	- 3	- J	7.C9	cpw
SeRenium	3JC2	23	- 4	44	- 7	24.41	cpw
SiRcon	2J01	24- 7413	24324C7	2747- 2-	24J4- J2	2.27	cpw
SiRver	1C301	J7J	J42	J27	J42	1.9J	cpw
SiRver	1C901	JJ-	JCJ	JCJ	J- -	7.2C	cpw
Sodium	2- C2	2772-	27- 9J	27- J9	274- 3	C.29	cpw
Strontium	J601	- 43C2	- 624J	- 6CC6	- 7672	2.- -	cpw
Strontium	JJ01	- CC- 33	- C919-	- C4JC6	- C4392	1.47	cpw
SuRur	- 401	26- 169	2792- C	2733JJ	26CC62	1.C3	cpw
Terbium	17901	9911714	93676- 9	9JJ66CC	9J747J7	C.39	cpw
Terbium	17902	4C46911	4C2- 626	- 341997	- 9- 3711	4.- 1	cpw
ThsRium	2C- 01	463	7J-	437	7CJ	12.JC	cpw
ThsRium	2C701	9J-	1C92	1CCJ	1C2J	7.72	cpw
Tin	11J01	- 3C9	- 6C9	41J4	- J- 4	J.C1	cpw
Titsnium	4301	241C4	24322	247- C	24472	1.29	cpw
Ursnium	2- J01	116C6	12C3-	1214J	11942	2.46	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	71O2	J- 6-	J- 9-	J- O6	J- 74	O.7-	cpw
Ytterbium	1320l	- 413	- 213	- 271	- 297	- .27	cpw
Ytterbium	1320l2	1411	142J	1611	14J-	3.4J	cpw
Ytterbium	1360l	- 179	- - 27	- 1J4	- 22-	2.39	cpw
Ytterbium	1360l2	11J76	12276	11- 23	11J1-	- .94	cpw
Yttrium	J90l	12JJ3O79	12JJ329O	12336OO9	12J7O12O	O.7O	cpw
Yttrium	J90l2	127- 132	123974J	119412O	12422JO	- .72	cpw
Zinc	66O2	12OO7	113OJ	11J62	11J7J	1.27	cpw
Zirconium	9OOl	24O6-	24131	2434J	24- 23	1.71	cpw
Zirconium	910l	71Ol	774-	766O	74- 7	7.42	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusbR:J	8 N
5 PR CTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCmb	2072	hS004N	hS6 2	hSS1hN	hS4 66	SMM-	dDw
qCTb nCE	12171	112461	111N4S	1S 0 S	111- 64	1M2h	dDw
qpwr Cd	0h72	- 610	- 024	- N14	- 01N	2M0h	dDw
Bspmb	1- h71	1SNh2	S02 2	Sh NN	SNS44	SM2N	dDw
Bspmb	1- 071	1044622	16 h002	10S22Sh	10142SS	1MMh	dDw
Br pEPRmb	71	1 hN2	1 26N	1N0N-	1 211	2MS	dDw
Bcwb mTG	2S 71	6 2666	0124N01	0Sh6N- 6	0S- 612h	1M4-	dDw
Bcwb mTG	2S 72	- 26 h60	- 2- NS-	- 2- - - 0	- 240hN	SMM	dDw
Bpmb dCr	N171	614-	624-	6220	62S4	SMM6	dDw
5 sob mb	1SN71	1- 2	1221	120	1206	4M2h	dDw
5 sob mb	1S671	h- 4-	h66N	hN1N	h61S	4M-	dDw
5 sob mb	11171	164- h	164 -	16- Sh	16411	SMM	dDw
5 sPdmb	4- 71	4h4- 4h	4h02N6	44NN66	4h- 4	SM4	dDw
5 sPdmb	4471	06N40S6	0NS6N1N	04 144N	066S 1	2MSN	dDw
5 spenC	1271	4- - N14	4h01N6-	4h 1h4S	4hSSh10	- M-	dDw
5 spenC	1272	h6 61	hh1 6	hh246	hhNS1	1MMS	dDw
5 GPmpdCr	- h71	1 61SSh-	24SN6242	26- 6 N2	2- - 64426	14M00	dDw
5 GPmpdCr	- h72	2S61h-	21h- 06	22S4S1	21- 00	- MN	dDw
5 Gpmb mb	h272	h1hN	6S6-	4- - h	h1Nh	SM1	dDw
5 nesPT	h 72	- 4hN00	- 4h4S-	- 41SS	- 44S 6	SM0N	dDw
5 nDDr p	6- 72	1 - 1 S	1 - 2S4	1 - - - 0	1 - 244	SMS4	dDw
&EwDpnwmb	1h671	- 20h	64S6	42- 1	46- N	1M0S	dDw
&EwDpnwmb	1h672	4SS16	- N 0S	- 221	- 4S2	1M	dDw
Fpemb	16471	014 -	0- 2- h	0S0 0	01N42	1M0h	dDw
Fpemb	16472	2N1NS	2N- N0	2N4h4	2N- 4S	SMMS	dDw
HsonPCmb	16S71	N2- h4	N4N1	N1 4	N- Sh6	1MMh	dDw
HsonPCmb	16S72	4S40h	- 64	- 0 2S	- - 4N	- M1	dDw
y nPb mb	16h71	06N0S-	N6 NN6	00h26	NS461	SMMN	dDw
y nPb mb	16h72	41 - 4 N	410 4 0	416h 4	410 66-	SM-	dDw
tComb	11h71	0SN0S00	026 22	01Nh1N4	01NS02N	1M20	dDw
tComb	11h72	hh2 6	h- 44-	- NSh	4N - 2	1MSS	dDw
tpnC	h472	2124SN-	21414N-	21- h 06	21- - N40	SM42	dDw
tpnC	h672	- N0S24	- N1062h4	- N4222- 0	- N4- - 66-	SM0	dDw
tpnC	h072	2S14S	1 S- 1	14NS0	10 -	SM1	dDw
KpEDTnC	N- 71	- 46	- - 4	- N	- h6	NMS	dDw
Lr so	2S671	6S426	614 S	h h002	6ShS1S	1MM	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S071	hS- - 2N	hS- 0 0	4 1446	4 h24	1M4S	dDw
Lr so	2SN71	2- 44- - 4	2- N- 60N	2- 61646	2- 6- 21	SMM-	dDw
LdTGmb	671	2h20S14	2hShNhh	2h- hh6	2h22N1-	SM01	dDw
9 sgOr wcmb	2472	N6S20-	Nh2216	Nh4S41	Nhhh1S	SM4	dDw
9 sOgsOr wr	hh72	h Sh2	h - 04	hN6N0	h S- N6	SMMN	dDw
9 nPEeor Omb	471	hh 0	h S1S	hh6S4	h6N0S	- M2N	dDw
9 nPEeor Omb	h71	4Nh1	4626	4Nh	400	2M00	dDw
9 nPEeor Omb	671	1- N04	14h2h	144hS	142N-	2M4	dDw
9 nPEeor Omb	071	- SSS	20N4	2 hS	2 11	- MS	dDw
9 nPEeor Omb	N71	01S2	066	0NN6	0hh2	hM6	dDw
u r noEb cmb	1hS71	16 40N	10- 2h1	10SN- N	1011N	1M12	dDw
u r noEb cmb	1hS72	h10S-	h14Sh	h1- 41	h14N-	SM10	dDw
u cdkr P	6S72	1S62- S	1Shh	1Shh- N	1Sh0N	SM6	dDw
8 GhwDGhpmw	- 172	hh- h	hN- h	h64-	h601	2M6N	dDw
8 nTswwcmb	- 72	46- N -	40S- 6N	4h hS	464h S	1MMN	dDw
. Ghocmb	1S- 71	0114S02	0204102	0S64 1h	01h1Sh-	1MM-	dDw
. Ghocmb	1S- 72	- 2N 6h2	- 1N00h1	- 112646	- 1 66N-	2M0N	dDw
I dsCocmb	4h71	4h 1 N	46SS4 4	406662-	46h- S- h	2M12	dDw
I dsCocmb	4h72	14h h1	14- 66	14- 40h	144464	SM1	dDw
I r PCcmb	N271	2226	22NS	21 2	22- -	1MMN	dDw
I r PCcmb	0072	2- -	2h0	220	2-	6MM	dDw
I r PCcmb	0N72	- 21	- 6	- 12	- - 4	M10	dDw
I dPdnC	2N71	1hN- 02 N	1h- 106h6	14N641S1	1h- - 6Nh	- M10	dDw
I dPr p	1S071	60N- 4	60hN-	6h4 N	66 02	1M12	dDw
I dPr p	1S 71	64661	64242	642- 4	64- 0	SMMN	dDw
I nocmb	2- 72	6 - 4	0102	66 4h	6 - 41	- M4h	dDw
I TpmCTcmb	N671	2220h1	210620	22hS11	2210 6	1M01	dDw
I TpmCTcmb	NN71	2S2N02	2S44- 2S	2S1 - hS	2S- SNSS	SM02	dDw
I mPmp	- 471	- S-	- S2 N6	- S1h6h	- S2NhS	SM4S	dDw
Ar pecmb	1h 71	1S110SN2	1S2N6621	1S1hS41S	1S1N40S4	SMMN	dDw
Ar pecmb	1h 72	41- S- N	4S10N 6	4S02- - 1	4S0- h42	1MMN	dDw
AGsPPmb	2S- 71	h - S-	h 11S	h0h2N	hN640	1M06	dDw
AGsPPmb	2Sh71	14266h	144S62	14SS4-	1422h0	1M4-	dDw
AdC	11N71	2SN2h	2Sh- 2	212SS	2SNh2	1M01	dDw
AdSCcmb	4071	1h2SSS	16S 0	1hS- 41	1h4446	- M01	dDw
RpsCcmb	2- N71	020- h	020- 4	02 4-	02NS4	SM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r :J	8 N
5 PrCTI sb DPP:t&:J	9 y SU2- I	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:u sb r :J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h172	10 2N4	10 242	10N4N2	10 SS-	SM2h	dDw
YTTr peomb	10271	1 NS0	1 1h6	1 S14	1 - 26	2M1	dDw
YTTr peomb	10272	hh	2S	4N0	41N	1M6	dDw
YTTr peomb	10671	1hS 2	140 2	14hSN	140 N	1M0	dDw
YTTr peomb	10672	16N-	16016	16Nhh	16NS-	SM4h	dDw
YTTpomb	N 71	1- 4 h6 0	1- 46h4-	141SN612	1- NhS2N4	2M2	dDw
YTTpomb	N 72	142- h22	14116 6	1- 046-	14S- 2N6	1MM2	dDw
ZdCd	6672	126S41	120hNh	12NNN-	120hS-	1M12	dDw
ZqpdnComb	S71	14 01	140N 0	14h h-	140Nh6	1M20	dDw
ZqpdnComb	171	- - 6SS	- 4- -	- - - 04	- - 0N	1MMN	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4y8y88	hSy411	4y2SS4	hSS1- 4	1U0h	ql s
c n&AmonE	12171	24- 4	2- 0h	24y2	24- 4	2U4S	ql s
c rsenAq	0h72	1880	1yyy	18y6	1y28	- U2-	ql s
BarAum	1- h71	- 08846	- 8- 244	- 81h10	- 812S2	SUh8	ql s
BarAum	1- 071	604h- -	606211	66S146	60S2y0	1U 2	ql s
BerEIAum	y71	4yS6	486h	4y08	4y16	1U16	ql s
BAsmu&G	2Sy71	6y6h1- 2	6y6Shy8	01y0264	0S4Syy8	1Uy2	ql s
BAsmu&G	2Sy72	- 2y- 8h2	2hS8688	- 12- 841	2y0h46S	1- U88	ql s
BromAne	8171	6y20	64h2	6h- h	66- 8	- U82	ql s
RaOmAum	1S871	2- -	2SS	242	22h	yU8S	ql s
RaOmAum	1S671	44hy	4h18	4606	4hh1	2U46	ql s
RaOmAum	11171	1824	1yyy	1808	1ySS	4U02	ql s
RalqAum	4- 71	226280	22y241	228611	228S46	SU68	ql s
RalqAum	4471	- 818S8-	- 8hy121	- 884S68	- 8h- 0h0	SU86	ql s
Rarbon	1271	4- 148- 6	44hyS- -	464S- 0S	440141-	- U6h	ql s
Rarbon	1272	hh2h4	h4- 18	h61S8	hh220	1U62	ql s
RGlorAne	- h71	221y4180	2hh1h0S6	20y8- 8y6	2h2- 126-	11Uh1	ql s
RGlorAne	- h72	21Sh40	210- 01	221- 04	2164- 1	2Uh-	ql s
RGromAum	h272	20000	28442	26408	20h66	- U62	ql s
Robal&	hy72	- 2h- 4	- 2y2h	- 2Sy6	- 2h18	1U20	ql s
RoI I er	6- 72	0h- 6y	048S6	041Sy	04061	SU84	ql s
t EsI rosAum	1h671	1S6440	1S0y20	1SyS8h	1S082S	1U2-	ql s
t EsI rosAum	1h672	44Sh2	440Sh	4421-	44- 2-	SU00	ql s
. rbAum	16471	0y228	811y8	088S8	0y04h	1U6S	ql s
. rbAum	16472	- 122-	- 2S2h	- 1h08	- 16Sy	1U20	ql s
HaOolAnAum	16S71	y2602	y46h-	y166h	y2yy0	1U6-	ql s
HaOolAnAum	16S72	446h8	4h0y2	4- 4- 0	4462y	2U64	ql s
9 olmAum	16h71	1SS8- hS-	1SS2SS80	yyS66S4	1SSS- - y8	SUyS	ql s
9 olmAum	16h72	42S61h2	- 2SS28S	4S- 6048	- 814- y-	14U12	ql s
DnOAum	11h71	0102606	0106- y2	0S888h0	014hy0h	SU6y	ql s
DnOAum	11h72	y6- - 0h	016h- 6	y241S4	868SSh	1hU28	ql s
Don	h472	2S0h- 02	2S44621	2Sh206y	2Sh0h80	SU00	ql s
Don	h672	- 04660- 8	- 0y6268S	- 6- h1- 84	- 026S268	2U21	ql s
Don	h072	880106	8868yS	8668hS	88S- S6	1U 2	ql s
KrEI &on	8- 71	- - y	- 60	- 6S	- hh	4U2S	ql s
LeaO	2S671	4yy2- 6	h1216h	4y828-	hS- 228	1Uh4	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	410y- S	418888	412h20	416448	SU82	ql s
LeaO	2S871	1yh2yhh	1y88282	1yh1hy0	1y64208	1US6	ql s
LA&GAum	671	2401y00	2h8y14h	2h2h- 24	2h28816	2U2	ql s
5 agnesAum	2472	64- 864	66S22S	64SSSh	648S- S	1U66	ql s
5 anganese	hh72	4488- y	44y- 20	44SShS	446S02	1U10	ql s
5 olEbOenum	y471	- - 8hy	- - 16h	- - 0- -	- - h86	1U1S	ql s
5 olEbOenum	yh71	- 2hy	- 4Sy	- 4- 4	- - 60	2U81	ql s
5 olEbOenum	y671	y1S-	y462	yS0S	y212	2U16	ql s
5 olEbOenum	y071	2S84	22SS	2260	2184	4U2h	ql s
5 olEbOenum	y871	h- 68	h8h1	hhh1	hhyS	4U10	ql s
NeoOEmAum	1hS71	1y- 811	1y- 602	1yhhSS	1y4- 28	SUh2	ql s
NeoOEmAum	1hS72	hy6h2	h00h0	h82- 2	h8h40	1U68	ql s
NAqkel	6S72	1h2S8	1hy4y	1hhSy	1hhhh	2U4S	ql s
PGosI Gorus	- 172	- 8S1	- 6y2	- - 10	- 6S-	0US4	ql s
Po&assAum	- y72	- 14006	- 1S814	- S- 288	- Sy626	1U88	ql s
CGoOAum	1S- 71	018- 681	0- SSy41	018262S	0222414	SUy4	ql s
CGoOAum	1S- 72	- - 10S0y	24h- 4h6	- Sy- 026	2yh40h-	1hU10	ql s
pqanOAum	4h71	4648- 8S	40ySh1S	4684016	40S086y	1Uh0	ql s
pqanOAum	4h72	146hy-	11S10S	1- 88y-	1- 188h	14Uhh	ql s
pelenAum	8271	1yS	140	14y	162	14Uy2	ql s
pelenAum	0072	160	2S0	1y-	18y	1SU08	ql s
pelenAum	0872	1- 8	16S	126	141	12U2S	ql s
pAAqon	2871	121002- 6	12448846	122h8h22	122y4868	1U1-	ql s
pAver	1S071	4006	hSh1	46hy	482y	4U10	ql s
pAver	1Sy71	464-	4868	484-	4084	2Uh8	ql s
poOAum	2- 72	h220S	h2h12	h1h2h	h21S2	SUyy	ql s
p&onA&um	8671	2S0S12	21S80S	21226h	21SS4y	1U-S	ql s
p&onA&um	8871	1yS1226	1y04Shy	1yhS882	1y42Sh6	1Uy2	ql s
pulfur	- 471	20- 2y2	20012y	206yS2	20h004	SU08	ql s
i erbAum	1hy71	1S1y4y2h	1S22h6y6	1SS22- h8	1S14066S	1US8	ql s
i erbAum	1hy72	418220y	- 11426-	- y- 86Sh	- 04hS4y	14Uyh	ql s
i GallAum	2S- 71	21SS	24- 4	1y10	21hS	12U18	ql s
i GallAum	2Sh71	h28h	h41S	hS26	h24S	- U0-	ql s
i An	11871	21806	2226S	22h- 6	22224	1U4y	ql s
i A&anAum	4071	12y1h-	128018	128666	128846	SU21	ql s
MranAum	2- 871	8SSh-	82- hy	8S8yy	811S4	1U44	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	44208	4- y- 4	424S-	4- h- 8	2U2y	ql s
Y&erbAum	10271	21044	21hh1	212S1	214yy	1U28	ql s
Y&erbAum	10272	yy- 2	1Shy-	1S121	1S21h	- U4	ql s
Y&erbAum	10671	1h406	140hS	1h468	1h2- 1	2U04	ql s
Y&erbAum	10672	106h6	1h- hy	102- y	160h2	0U1	ql s
Y&&Aum	8y71	1- yS8y62	1- 8221Sh	1- 881042	1- 80Sy- 6	SU2	ql s
Y&&Aum	8y72	14y8- y2	1118- h0	1- 10Syh	1- 11281	14UhS	ql s
ZAnq	6672	h26y8	h4y6S	h- 2yS	h- 64y	2U1y	ql s
ZAqonAum	yS71	86yy0	862h8	8hy4S	86- y8	SU6-	ql s
ZAqonAum	y171	18y8S	1y6y8	186- 8	1y1Sh	2U8-	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUND

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
c lumAnAum	2072	4hhh66	4h- C01	CSSh40	4h8161	SN8S	ql s
c n&AmonE	12171	CS4-	4hS1	CC6S	C168	6N01	ql s
c rsenAq	0C72	181S	1000	10S8	106C	2N1C	ql s
BarAum	1- C71	- C0C82	- 6426-	- 6- 6hS	- 6184C	1N82	ql s
BarAum	1- 071	6- 40S8	6- 48h6	6- 8C84	6- 6S6-	SN14	ql s
BerEIAum	h71	1h81	2S16	1h42	1h8S	1N86	ql s
BAsmu&G	2Sh71	C- 124S1	660618C	6840- C0	6208648	1- N4S	ql s
BAsmu&G	2Sh72	- - S0S08	- 20h- 24	- 24- S16	- 20640-	SN18	ql s
BromAne	8171	06- 6	82S-	8- 08	8S02	4N81	ql s
5 aOmAum	1S871	20C	2C4	- 0C	- S1	21N4-	ql s
5 aOmAum	1S671	- C42	42S1	- h60	- hS-	8N0C	ql s
5 aOmAum	11171	- Ch6	- 8Ch	- Ch-	- 68-	4N16	ql s
5 alqAum	4- 71	1606- 4	16h4S0	16hShC	168012	SN06	ql s
5 alqAum	4471	28- 2CC8	28hh1- C	2882048	2801481	1N21	ql s
5 arbon	1271	C8262CS	Ch0C18h	611- C2S	Ch016C-	2N41	ql s
5 arbon	1272	0- S04	02h2-	0- - SS	0- Shh	SN26	ql s
5 GlorAne	- C71	22- 6068C	262- 1h26	282C2121	2C610244	11N80	ql s
5 GlorAne	- C72	2S8601	21- 416	210- 48	21- 14C	2N84	ql s
5 GromAum	C272	4- 442	42h14	4- 102	4- 106	SN01	ql s
5 obal&	Ch72	2- 44-	2- 48h	2- 4h6	2- 406	SN12	ql s
5 ol I er	6- 72	8h41h	80411	8842-	88418	1N14	ql s
t EsI rosAum	1C671	C- 44h	C2- 28	C- SC6	C2h4C	1N80	ql s
t EsI rosAum	1C672	21284	21Ch1	2S0C-	212Sh	2N8S	ql s
FrbAum	16471	4S262	4SC01	41482	4S002	1N06	ql s
FrbAum	16472	1Ch0-	1C82-	16ShS	1Ch62	SN84	ql s
HaColAnAum	16S71	4Ch8S	461- h	40Sh2	464S4	1N1S	ql s
HaColAnAum	16S72	214S0	211- 0	211SS	2121C	SN0h	ql s
y olmAum	16C71	04C2- 41	h2hh4- -	h60- hS4	88S8CCh	1- N0S	ql s
y olmAum	16C72	42- C0S6	416S048	42466h0	4214- 84	1N11	ql s
DnOAum	11C71	CCCh01	68682hS	0S401S0	64h10hS	12N01	ql s
DnOAum	11C72	h- 8628	h62- - C	h4- hS8	h482hS	1N11	ql s
Don	C472	10- 8h24	102hS4h	10Sh4- 6	102C8S-	SN80	ql s
Don	C672	- Sh48SC0	- SC84C28	- S1h- S08	- SC0C221	1N2-	ql s
Don	C072	0216S2	026081	021421	02- 268	SN42	ql s
KrEI &on	8- 71	- hC	- 1C	- 1h	- 4-	1- N10	ql s
LeaO	2S671	h4h404	hC22- 2	hCS84-	hCS84h	SN1C	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
LeaO	2S071	0hC- C-	0h- 411	0h4121	0h42hC	SM12	ql s
LeaO	2S871	- 86h4- -	- h- 82SC	- 80SCCS	- 8h20- S	1N31	ql s
LA&GAum	671	2Sh- 62h	2421- - 4	2C1hh61	2- 44h0C	hM02	ql s
9 agnesAum	2472	- 6hhh4	- 6- 88S	- 680h0	- 60CC0	SM38	ql s
9 anganese	CC72	C0h8CS	C81648	C0h02C	C8S4S8	SM1h	ql s
9 olEbOenum	h471	hh80	1S621	h80h	1S162	- M1C	ql s
9 olEbOenum	hC71	40C1	C- h-	4068	4h0S	0M6	ql s
9 olEbOenum	h671	628C	68C2	68C2	666-	4M1	ql s
9 olEbOenum	h071	- - 10	- 2Sh	- - 26	- 284	1M8	ql s
9 olEbOenum	h871	0011	0000	8S1h	08- 6	2N30	ql s
NeoOEmAum	1CS71	h2h28	hSh2S	h- - 2-	h2- hS	1Mh	ql s
NeoOEmAum	1CS72	206hh	2080-	20- 88	206C-	SM3h	ql s
NAqkel	6S72	12SS2	110- 8	11- S1	1168S	- N3-	ql s
PGosI Gorus	- 172	C1Sh	CSS1	4h- 4	CS1C	1M06	ql s
Po&assAum	- h72	- 1444C	- 141SC	- 14h22	- 144h1	SM1-	ql s
. GoOAum	1S- 71	C4C- 1Sh	68S1- 16	0S448S4	64- - S06	1- M-	ql s
. GoOAum	1S- 72	- 284- 4h	- 216h81	- 241C02	- 2406- 4	1N3C	ql s
pqanOAum	4C71	- C2h044	420C04C	4C0hh8h	41284h-	1- N3h	ql s
pqanOAum	4C72	14S21C	142102	14208C	141024	SM1C	ql s
pelenAum	8271	11h	122	1S8	116	6M01	ql s
pelenAum	0072	110	8S	1- -	11S	24M31	ql s
pelenAum	0872	82	0S	8h	8S	11M16	ql s
pAAqon	2871	8h14868	8h18CC-	8hh2868	8h42Sh6	SM4h	ql s
pAver	1S071	1Ch- C	16- C2	1C04-	16S1S	1M14	ql s
pAver	1Sh71	146h2	1C12C	1C0- 4	1C184	- M4C	ql s
poOAum	2- 72	48140	460Sh	48024	4086S	2M10	ql s
p&ona&um	8671	210- S1	210hCS	21022h	2104h-	SM18	ql s
p&ona&um	8871	2SC682h	1h88668	1h66C24	2SS4SS0	2MC	ql s
pulfur	- 471	2084SC	2814- 0	2814S2	28S41C	SM02	ql s
i erbAum	1Ch71	08488- 8	h610S8S	h0- 22C0	hS66SC8	11M04	ql s
i erbAum	1Ch72	4S82222	41C208h	4S- h- 04	4Sh1462	1M4S	ql s
i GallAum	2S- 71	1642	1060	18SS	10- 6	4M31	ql s
i GallAum	2SC71	- 826	- Ch2	4126	- 848	6M1C	ql s
i A	11871	2h4S0	2hC04	2hS4S	2h- 4S	SM1-	ql s
i A&anAum	4071	1- 1S02	1- SCh-	12h1h8	1- S288	SM7C	ql s
RranAum	2- 871	C- 4SC	C- - 88	C2h4C	C- 246	SM4h	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAn&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
VanaOAum	C172	CSC02	4h816	C11S4	CS4h8	1M28	ql s
Y&erbAum	10271	12- h8	12- O6	122O6	12- - 0	SM0h	ql s
Y&erbAum	10272	C024	O6S1	ChC0	C061	- M14	ql s
Y&erbAum	10671	hC2h	8hS-	h10S	h2S1	- M41	ql s
Y&erbAum	10672	146h2	14C0C	14881	14016	1M3C	ql s
Y&&Aum	8h71	1S4C04C0	12h6C0Sh	1- 1h62- S	122S646C	12M44	ql s
Y&&Aum	8h72	1- S2- 66	1- 6hCSC	1- S- 4S2	1- 2CSh1	2M1S	ql s
ZAnq	6672	h4C1-	h4h86	h4h4h	h4816	SM28	ql s
ZAqonAum	hS71	1hhh8	2S04h	1h4- h	2SS62	- M28	ql s
ZAqonAum	h171	484-	4426	4406	4C81	4M10	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	41J26h	414S16	4S6JSN	411h- 1	1M1J	dDw
qCTb nCE	12171	- SSS	- 1Sh	2NJh	2hNh	4M2S	dDw
qpwr Ccd	0J72	14J6	1J1S	1410	1461	- M2S	dDw
Bspcmb	1- J71	26N2hJ	26NS1h	266NNh	2600- J	SM2N	dDw
Bspcmb	1- 071	464064	460J- 6	402N02	46N- hS	SMMN	dDw
Br pEPmb	h71	1J1S	16S4	1626	1JNS	- M1S	dDw
Bcvb mTG	2Sh71	6N- h- 4-	6hN6221	6N4S400	6NNN6NS	1M4-	dDw
Bcvb mTG	2Sh72	- 1JS0SN	- 2JhhNN	- 204N- S	- 22NJSN	2M1S	dDw
Bpmb cCr	N171	021S	0S44	0444	02- -	2M0N	dDw
5 sob cmb	1SN71	2SN	242	- 10	2J6	21M01	dDw
5 sob cmb	1S671	- N60	4S42	42- 4	4S4N	4M-	dDw
5 sob cmb	11171	- JJ4	- 1NJ	- - 0-	- - 01	JM46	dDw
5 sPlcmb	4- 71	1SJS6S	1S04- 2	1S4JS1	1SJ664	1M40	dDw
5 sPlcmb	4471	1NJ2S6N	1N6h2S-	1NS1S04	1N4S0N2	1M1-	dDw
5 spenC	1271	4S21S1S	4SN21- h	4SJh664	4SJ4201	SM06	dDw
5 spenC	1272	JSJh6	4h1JN	4N41-	4h- Nh	2M2J	dDw
5 GPmpcCr	- J71	2- 6h611S	20J010S-	2h04110h	20SS2hh0	11M4	dDw
5 GPmpcCr	- J72	224J40	2204h2	22h2J-	220Sh0	1M3J	dDw
5 Gpmb cmb	J272	- 6112	- 6S4h	- 6- 6-	- 610J	SM46	dDw
5 nesPT	Jh72	1hhh4	1hJJ0	1h0S0	1h0J-	1M12	dDw
5 nDDr p	6- 72	646S-	6JS42	64666	6400S	SM10	dDw
&EwDpnwcmb	1J671	41S- N	411- 1	- h4- 4	4SJ- 4	2MJ	dDw
&EwDpnwcmb	1J672	102SJ	1064J	10- 11	10- N0	1M12	dDw
Fpecmb	16471	- 1N22	- 220-	- 146-	- 1NJ-	1M2N	dDw
Fpecmb	16472	1- 24-	1- S6S	12h1S	1- S01	1M2N	dDw
HsonPCcmb	16S71	- J6J0	- 0261	- 0- J-	- 60J0	2M6S	dDw
HsonPCcmb	16S72	10J2J	10JNJ	16h21	10- 44	2M12	dDw
y nPb cmb	16J71	h60NNS6	hh16426	h22hJ00	h6SN20S	- M0-	dDw
y nPb cmb	16J72	- hNh221	42- S146	4106N04	41- 2SNS	- M36	dDw
tCocmb	11J71	6h6J- 46	02446N-	6Nh2NhN	0S- 4- Sh	2M64	dDw
tCocmb	11J72	h1S1h4	hJJ1Nh	h6JhSN	h4- 06-	- M1-	dDw
tpnC	J472	126JSS2	122J12h	122NJ0S	12- hJ60	1M0N	dDw
tpnC	J672	241NJ- - h	24- S60- S	2- Nh6J40	2412hJ- h	SMM0	dDw
tpnC	J072	J6h- 04	J04N1-	J6164-	J6N61S	1M16	dDw
KpEDTnC	N- 71	- 12	2h4	- 16	- S0	- M12	dDw
Lr so	2S671	N6J1N1	NJ212J	N61JN-	NJh62h	SM0N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	01hJ1h	01N616	01426N	01046N	SMlh	dDw
Lr so	2SN71	- 6S6hh4	- J64S0S	- J4J11-	- J02SJh	SMNh	dDw
LdTGmb	671	2JJS166	2J0SS1S	2J- 1S1S	2JJS- hJ	SM06	dDw
9 sgOr wcmb	2472	2JJS0S	2JJ122	24062h	2J26S0	1M01	dDw
9 sOgsOr wr	JJ72	6SSh6N	Jh- 1JS	JNh0Jh	Jh4626	SM10	dDw
9 nPEeor Omb	h471	0- 44	00S2	0J61	0J- 6	2M4S	dDw
9 nPEeor Omb	hJ71	- S60	- 2- 4	- 2N4	- 1hJ	- MJ	dDw
9 nPEeor Omb	h671	4S60	4J- 4	4J26	4- 06	6M1S	dDw
9 nPEeor Omb	h071	2S2J	1N2J	1N- 4	1NhJ	JM10	dDw
9 nPEeor Omb	hN71	4h1N	4Jh-	4026	404J	- M44	dDw
u r noEb omb	1JS71	04- SJ	0- hh6	0- N2-	04S42	SM-	dDw
u r noEb omb	1JS72	22- 4h	22- J2	21h1N	222S6	1M12	dDw
u dkr P	6S72	11- 4J	111S4	112J1	112- -	1MSN	dDw
8 GhwDGhpmw	- 172	- 1- 4	2h60	2NSh	2h0S	JM40	dDw
8 nTswwcmb	- h72	1h- - J0	1h4h64	1NN220	1h21N-	1MM-	dDw
. Ghoomb	1S- 71	6h1hJ6N	0SJ04S1	6NN0N- 6	6hJ4h- J	1M1S	dDw
. Ghoomb	1S- 72	- Sh4601	- 2h661N	- - S14N4	- 2- Sh24	- M0J	dDw
I dsCoomb	4J71	44N1004	46N1166	4JS4NhS	4JJJh4-	2Mlh	dDw
I dsCoomb	4J72	1- Nh4h	142S1N	1446N1	141NN-	2MS2	dDw
I r P Comb	N271	N1	120	h4	1S1	2- M0-	dDw
I r P Comb	0072	1SS	11-	0S	h4	2- MlS	dDw
I r P Comb	0N72	J1	6N	JN	Jh	14M4N	dDw
I dPdnC	2N71	1244S- JN	12JN6J1-	12- 66SS2	124642h1	SM1S	dDw
I dPr p	1S071	1- - 6J	141N-	141h1	1- h1-	- M41	dDw
I dPr p	1Sh71	1- 4S0	1- 06J	1- NJ0	1- 600	1M04	dDw
I noomb	2- 72	JNSh1	J0hJ0	J0402	J0N4S	SM16	dDw
I TpnCTomb	N671	144hJ1	1J112S	14h2h-	14N4J4	2M1-	dDw
I TpnCTomb	NN71	120h- hN	12h6S0h	12N0SNh	12N0J22	SM0J	dDw
I mPmp	- 471	2JhS20	2J41- 4	2J- h- S	2JJ6h0	1M1-	dDw
Ar peomb	1Jh71	h602NJJ	1S110JJ4	h0S110N	hN- SJ2h	2Ml-	dDw
Ar peomb	1Jh72	- h- hh- N	41- 62J6	414S4Nh	4S0222N	2MN1	dDw
AGsPmb	2S- 71	1- SS	1- 0J	1JSN	1- hJ	0Ml0	dDw
AGsPmb	2SJ71	- S42	- - S1	- S60	- 1- 0	4Ml4	dDw
AdC	11N71	1hJ14	1hh2-	1h6S6	1h6N1	1MSh	dDw
AdsComb	4071	N2h- h	NJ402	N44h1	N4- S1	1Ml1	dDw
RpsComb	2- N71	41J- J	41- h-	4ShN-	41- S4	SM0h	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DPP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DPP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP u sb r:	S06q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4S604	- N6h6	- N662	- h- 44	2M1-	dDw
YTTr pe omb	10271	h6S4	h12N	h0- 0	h4hS	- M0	dDw
YTTr pe omb	10272	4N0-	4JhJ	4JS1	46J6	4M16	dDw
YTTr pe omb	10671	026h	046h	0100	0- SJ	2M34	dDw
YTTr pe omb	10672	12010	141JN	1- 0NS	1- JJ2	JM1	dDw
YTTpomb	Nh71	120- 10- 4	1- 200h02	12N62h16	12hJ0J41	2M2S	dDw
YTTpomb	Nh72	12- h1- S	12h- - J1	1- 212S4	12N4J62	- M2J	dDw
ZdCd	6672	042- 0	0- hJ2	0- JhS	0- h26	SM44	dDw
ZqpdnComb	hS71	14h- -	1J6S1	1J2- 4	1J2J6	2M1h	dDw
ZqpdnComb	h171	- J- 4	- 010	- - 26	- J26	JM16	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	4- - SSS	42yy21	42- 8S8	428y1S	1U5y	ql s
c n&Amonh	12171	2E2E	2684	2EES	2E86	- U2y	ql s
c rsenAq	0E72	1- S8	1- 16	12- 0	1280	- U- 8	ql s
BarAum	1- E71	- 14S4-	- 14S- 6	- S4862	- 1Sy8S	1U0S	ql s
BarAum	1- 071	EE88E-	EE2y6E	E48- S0	EE- - 0E	SUy6	ql s
BerhllAum	y71	1681	10- 0	1026	101E	1U04	ql s
BAsmu&G	2Sy71	6y0402y	0- y6E8S	0004y24	0- 82S00	EU42	ql s
BAsmu&G	2Sy72	- 2S06E4	- - 48y84	- 2101EE	- 2E0y- 1	2U42	ql s
BromAne	8171	0800	8108	8E- 6	81y0	4U52	ql s
RaOmAum	1S871	21-	2E8	18-	218	10U- 4	ql s
RaOmAum	1S671	42Ey	4SS1	46Sy	42yS	0U12	ql s
RaOmAum	11171	2661	266E	28S4	201S	- U5S	ql s
RalqAum	4- 71	- 014EE	- 0- - 10	- 6040E	- 0S04y	SU8S	ql s
RalqAum	4471	626- 68y	6- 0y46y	61yE264	620y404	1U48	ql s
Rarbon	1271	E80400y	61S- Sy2	61408- 1	6S41yS1	2U42	ql s
Rarbon	1272	0- 620	0EEyE	0- 044	04- 22	1U4y	ql s
RGlorAne	- E71	2- 611- - 6	20- yy282	2yE1SE06	2684S- y8	11U14	ql s
RGlorAne	- E72	22- 1E2	226681	2- S066	226866	1U68	ql s
RGromAum	E272	- 01E2	- 6640	- 0- 12	- 0S- 0	SUy4	ql s
Robal&	Ey72	22EE1	226yE	22S10	22421	1UEy	ql s
RoI I er	6- 72	6E00E	664S8	66S0-	66S8E	SU48	ql s
t hsI rosAum	1E671	40210	46066	4E412	4646E	2U52	ql s
t hsI rosAum	1E672	1y6S1	18y1-	1y2S1	1y2- 8	1U8S	ql s
. rbAum	16471	- 66- E	- 686S	- E264	- 62E-	2U- 8	ql s
. rbAum	16472	14641	14688	14- - 1	14EE4	1U-	ql s
HaOolAnAum	16S71	4126E	41S- y	412- 1	4110y	SU- S	ql s
HaOolAnAum	16S72	2S2Ey	1y60E	1yES8	1y814	1Uyy	ql s
9 olmAum	16E71	1SS1204-	1SSE- 8E0	11- ySy26	1S48E842	0U48	ql s
9 olmAum	16E72	416SS8-	4180144	4S448- y	41- S68y	1U8-	ql s
DnOAum	11E71	0- 0E0yy	0466180	8Sy- y62	064E- 16	EU12	ql s
DnOAum	11E72	y6S- S4	yE- Ey6	y40486	yE- 0yE	SU60	ql s
Don	E472	1- 88000	1- 0SE- E	1- 8E6S4	1- 816- y	SU01	ql s
Don	E672	2ES- 0- Ey	24E082E-	24080448	248S1S2S	SUy-	ql s
Don	E072	6SS442	E8y18y	E8y- 0S	Ey- SSS	1U5y	ql s
Krhl &on	8- 71	- - E	- 40	281	- 21	1SUy6	ql s
LeaO	2S671	420S0-	4- 0- 82	4212S8	428EE4	1Uy1	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- E0114	- 64y- 1	- 44S44	- EE- 6-	2Uy0	ql s
LeaO	2S871	160yy62	10SE80S	16- 424E	160- - Ey	2U10	ql s
LA&GAum	671	246- 801	2E88811	28228y6	262E1y-	6Uy4	ql s
5 agnesAum	2472	68S- yE	68864y	60E062	6816S2	SUy6	ql s
5 anganese	EE72	- - 82S0	- - 6444	- - - - y0	- - 6S16	SU02	ql s
5 olhbOenum	y471	yy0S	1SS2y	1S- y6	1S1- 2	2U28	ql s
5 olhbOenum	yE71	2y10	2y42	28ES	2yS-	1U6-	ql s
5 olhbOenum	y671	4068	4606	4- 10	4E80	EU1y	ql s
5 olhbOenum	y071	1y0E	18y2	1042	180S	6U-	ql s
5 olhbOenum	y871	4ES1	4484	40S1	4E62	2U64	ql s
NeoChmAum	1ES71	8S6- E	81144	0yyES	8SE06	SU04	ql s
NeoChmAum	1ES72	24y80	244E6	2- 0y8	2441-	2U44	ql s
NAqkel	6S72	124- 6	1220E	12E0y	124- S	1U22	ql s
PGosI Gorus	- 172	E01S	EyE1	E468	E01S	4U2-	ql s
Po&assAum	- y72	4SS1S6	- y10y4	- y4y- y	- yE61-	1US6	ql s
CGoOAum	1S- 71	016002y	020- EyS	0yE0S22	0466114	EU04	ql s
CGoOAum	1S- 72	- 218626	- 2S0E40	- 282y14	- 2- 6- 62	1U26	ql s
pqanOAum	4E71	4620E81	4680228	E2yS0- E	4868E1E	0UE4	ql s
pqanOAum	4E72	1440S4	14- 26S	14SyS1	142yEE	1U4	ql s
pelenAum	8271	116	82	166	122	- 4U6-	ql s
pelenAum	0072	6-	8-	y0	81	2SU6y	ql s
pelenAum	0872	80	06	84	82	6Uy1	ql s
pAAqon	2871	y1- E- 1y	y1Ey08E	8y4S242	yS0844y	1U-	ql s
pAver	1S071	- 8- 4	- 426	- 8Sy	- 68y	6U21	ql s
pAver	1Sy71	- 4y2	- 442	- EE1	- 4yE	1UEE	ql s
poOAum	2- 72	E2648	E1Syy	ES- 88	E1- 08	2U2E	ql s
p&ona&Aum	8671	- 84ES6	- y4- 22	- 081y-	- 8E60-	2U11	ql s
p&ona&Aum	8871	- E48- - 8	- E- SyS1	- 42y820	- ES- S22	1U8-	ql s
pulfur	- 471	2084E4	2826- 4	2801E6	282048	1UE4	ql s
i erbAum	1Ey71	1S22- 212	1S44E2S0	11- 222E0	1S66- EEy	EU4E	ql s
i erbAum	1Ey72	416Sy46	- yy- E- 4	4S4S- 2-	4S64y- 4	2U12	ql s
i GallAum	2S- 71	1010	1E10	1442	1EE8	yU12	ql s
i GallAum	2SE71	4SSy	- 0Ey	- 260	- 608	1SU26	ql s
i A	11871	1- - 24	1- - yS	12y1E	1- 21S	1UyE	ql s
i A&anAum	4071	yS8yE	y- Ey0	y4S60	y28E-	1U84	ql s
MranAum	2- 871	E- 82-	EEES6	E- SS-	E4111	2U6	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- E- 14	- 6266	- E0EE	- E008	1U-	ql s
Y&erbAum	10271	1S4S4	1Sy- 8	1S20y	1SE41	- U2	ql s
Y&erbAum	10272	ES- 4	E14S	4yyE	ESE0	1U48	ql s
Y&erbAum	10671	8S6y	0y6y	8486	810E	- UE	ql s
Y&erbAum	10672	14- 14	1- 804	14S46	14S08	1UE0	ql s
Y&&Aum	8y71	1- - 2- S86	1- 64414y	1E288686	14S8E- S0	0U4y	ql s
Y&&Aum	8y72	1- 86460	1- S62E4	1- S- 0E8	1- - 216S	- UE-	ql s
ZAnq	6672	40SE1	48S81	404Ey	40E- 1	1USy	ql s
ZAqonAum	yS71	2- 2yE	241- S	22600	2- - 60	- U12	ql s
ZAqonAum	y171	ESy-	ES68	E4E1	E2S4	4U12	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	42Sy80	4S2- 28	412108	4118- 1	2U20	ql s
c n&Amonh	12171	2210	1yES	24Sy	21y2	1SUES	ql s
c rsenAq	0E72	1446	1- 0S	1- E0	1- y1	- U46	ql s
BarAum	1- E71	2y8- 6-	- S4Sy8	- S6626	- S- S2y	1U4S	ql s
BarAum	1- 071	E- 8- 8E	E- ES- -	E- 00SS	E- 0S- y	SU-	ql s
BerhllAum	y71	16y0	102y	1626	1684	- U12	ql s
BAsmu&G	2Sy71	68y486y	6y0S8Ey	6y01- 60	6y4E6yy	SU6-	ql s
BAsmu&G	2Sy72	2y00y4y	- - E- 606	- 21E80-	- 1824yy	EUy0	ql s
BromAne	8171	001y	8211	8128	8S1y	- U28	ql s
RaOmAum	1S871	1y2	242	16-	1yy	2SU16	ql s
RaOmAum	1S671	44E1	- y84	- yy2	4142	6U4E	ql s
RaOmAum	11171	2211	21y6	2- 2-	224-	- U1S	ql s
RalqAum	4- 71	- E6428	- 6S20y	- E2621	- E644-	1US0	ql s
RalqAum	4471	Ey6S01E	6S2016E	Ey- - 6E-	Ey0- 844	SU81	ql s
Rarbon	1271	- 6- - 02y	- 0- yE8S	- 00- 1y1	- 01EESS	1Uy6	ql s
Rarbon	1272	44620	4E- 0S	4E6- 8	4E212	1U16	ql s
RGlorAne	- E71	2- - 6216S	20S8E06E	286- 0444	26- 610yS	1SU28	ql s
RGlorAne	- E72	218SE8	21821S	22E- yE	22SEE4	1UyS	ql s
RGromAum	E272	2y80E	2881y	2y- 1-	2y- - 6	1U8S	ql s
Robal&	Ey72	2S002	2Sy22	2SE- 2	2S042	SUyE	ql s
RoI I er	6- 72	E28E8	ES2SE	ES8S0	E12yS	2U01	ql s
t hsI rosAum	1E671	4ES18	4- S0y	4- 0- 1	4- y4-	2U2E	ql s
t hsI rosAum	1E672	10y- y	10y42	1004E	1080E	SU6-	ql s
. rbAum	16471	- - 8S2	- 2- - 2	- - Ey-	- - 242	2Uy	ql s
. rbAum	16472	1- 44S	1- 210	1- - S0	1- - 21	SU84	ql s
HaOolAnAum	16S71	- 8114	- 00y6	- y18-	- 8- 64	1U8y	ql s
HaOolAnAum	16S72	18- - y	10yyy	18- 2y	1822-	1US6	ql s
9 olmAum	16E71	1SS1y2- 0	y8y6S00	y8SyEyy	yyS8- S4	1US6	ql s
9 olmAum	16E72	- 8640Ey	42SE0S8	4166E12	4S08yy-	4UE0	ql s
DnOAum	11E71	0SSSEy-	02800E8	02208- y	0102S6-	2U11	ql s
DnOAum	11E72	8EE864	y66S8E	y- 00y8	y1yy16	6U22	ql s
Don	E472	12460- 8	110y180	118S1S-	12S2S1S	- U22	ql s
Don	E672	2- - 8- 68y	2284yS06	2- SEy066	2- Sy0E1S	1U10	ql s
Don	E072	EE8820	E42- 01	E44y2-	E480S0	1U61	ql s
Krhl &on	8- 71	2y4	2y2	281	28y	2U8	ql s
LeaO	2S671	- 640Sy	- 66826	- 68E42	- 666y2	SUE2	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- S22- 8	- S0S66	- SE2ES	- S48E1	SU3S	ql s
LeaO	2S871	141- 08E	1420E- -	14- 10y2	1424- 0S	SU66	ql s
LA&GAum	671	2E11844	2E2y81S	2E2- 1E4	2E216S-	SUJ6	ql s
5 agnesAum	2472	4E- S06	4- 88- 2	44y06y	440226	1U60	ql s
5 anganese	EE72	- 180- 1	- S81- 4	- 11EE2	- 128S6	1U0-	ql s
5 olhbOenum	y471	86S-	8yS-	y62S	yS42	EU08	ql s
5 olhbOenum	yE71	2110	2- SS	2284	22- 4	4UE4	ql s
5 olhbOenum	y671	- E06	4SS1	- 826	- 8S1	EU62	ql s
5 olhbOenum	y071	14S8	1- ES	102E	14yE	1- UES	ql s
5 olhbOenum	y871	- - ES	- 810	- 026	- 6- 1	6U31	ql s
NeoChmAum	1ES71	0E820	0Ey2S	0021E	06- 21	1US2	ql s
NeoChmAum	1ES72	22y4-	22- yy	2- 1S0	22816	1U62	ql s
NAqkel	6S72	1S28S	1S1E0	1S104	1S2S4	SU66	ql s
PGosI Gorus	- 172	28- 4	2EES	2410	26SS	8U18	ql s
Po&assAum	- y72	2406SS	241112	24E1- E	244616	1UJ4	ql s
CGoOAum	1S- 71	0S218SS	0- - E6- E	6y8yy14	011E08-	2U6y	ql s
CGoOAum	1S- 72	2y206Ey	- 2S6006	- 1860- 6	- 1S0SE0	EUS1	ql s
pqanOAum	4E71	4E01681	40S12y1	448E220	4E86S66	2UJ0	ql s
pqanOAum	4E72	1202y4	142- Sy	14SES0	1- 60S-	6USS	ql s
pelenAum	8271	64	1SE	y6	88	24U61	ql s
pelenAum	0072	E0	8S	0S	6y	16Uyy	ql s
pelenAum	0872	64	E8	6S	61	EUS-	ql s
pAAqon	2871	1SS1021-	1S1818S2	1SS284y0	1SS0E8- 8	SUy1	ql s
pAver	1S071	20ES	- S- 4	20SS	2828	6UJ6	ql s
pAver	1Sy71	20y2	20Sy	2042	2048	1UE-	ql s
poOAum	2- 72	60666	6E6yy	66862	66042	1U48	ql s
p&ona&um	8671	- 6- - 1y	- 61y18	- 6S06S	- 61yyy	SUJE	ql s
p&ona&um	8871	- - 01648	- 20E8SS	- 281S0E	- - SyES8	1U6-	ql s
pulfur	- 471	26811-	268y82	201yES	26y681	SU0E	ql s
i erbAum	1Ey71	1SS806- E	1S20SyE4	1SS11- 0S	1S12- - 2S	1UJ2	ql s
i erbAum	1Ey72	- 66yy80	41664y4	4S6182S	- y661SS	6U6S	ql s
i GallAum	2S- 71	1- 0E	120E	148-	1- 08	0UE6	ql s
i GallAum	2SE71	- - Sy	- - 10	- - 84	- - - 0	1U2-	ql s
i An	11871	1- E- 2	12E81	12yyS	1- S- 4	- U66	ql s
i A&anAum	4071	0ESy6	00- - -	0E- 82	0Ey- 0	1U6S	ql s
MranAum	2- 871	2800E	- S42y	- S4y6	2yySS	- U26	ql s

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LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- 4yE-	- 4411	- - y- 0	- 44- 4	1U48	ql s
Y&erbAum	10271	yy01	yy0y	y080	yy12	1US y	ql s
Y&erbAum	10272	4y62	40E1	48S1	48- 8	2U28	ql s
Y&erbAum	10671	0011	0E- 6	04y4	0E8S	1UE2	ql s
Y&erbAum	10672	120E1	141E2	14Sy0	1- 660	EU31	ql s
Y&&Aum	8y71	1- - SE0- E	1- 4y- E20	1- E20206	1- 44210y	SU3y	ql s
Y&&Aum	8y72	11yE2- S	1- 46S- 2	12y64- 8	120y2- -	6US1	ql s
ZAnq	6672	- - 0S-	- 1y4y	- 1y- 6	- 2E- S	- U12	ql s
ZAqonAum	yS71	1y06E	1yy6E	1yy2-	1y884	SUE-	ql s
ZAqonAum	y171	4606	44- 4	42- 4	4448	4Uy0	ql s

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Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16.J2aJ1a	TwiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 410	44a - 2	442u2	44uu44	1R20	Qt I
d. iqe C. E	12171	20Sa	2uSa	2u10	200u	2R10	Qt I
dIl p. qO	0 72	224	216-	210S	21a-	2RS0	Qt I
Bwldpe	1- 71	2 2S00	24 114	242210	24646a	2RS6	Qt I
Bwldpe	1- 071	4- aa1	4- aSu4	42aS 4	4- 401S	1R1u	Qt I
BplE8dpe	a71	1640	16u6	1611	164u	2R2u	Qt I
Bdqe biG	2Sa71	62 6S1	0 u400	00 uaa	01aaa2u	11R42	Qt I
Bdqe biG	2Sa72	- 244uua	- 2a6611	- 2640- u	- 26u046	SRuS	Qt I
BIOe q p	u171	16 20	166-	1uS- 0	10S66	4Ra4	Qt I
9 wne dpe	1Su71	21-	2S4	2a6	2- u	21R 4	Qt I
9 wne dpe	1S671	- 006	4u06	4406	4- 06	12R0-	Qt I
9 wne dpe	11171	- 1- -	- - 24	- 1u-	- 21-	- RSu	Qt I
9 w8Odpe	4- 71	022ua2	01SaSa	0104- -	010S0u	SRu4	Qt I
9 w8Odpe	4471	121112- 2	121241Su	12S6ua4S	121S1420	SR24	Qt I
9 wIr C.	1271	ua2 uaa	a26SS0a	a2a6u46	a16Sa41	2R2-	Qt I
9 wIr C.	1272	11 a14	114S- 2	11- - S-	114416	1R1u	Qt I
9 G8Clq p	- 71	22226440	2 6SaSu	20- 1- 444	2 S4a6 a	1SR 4	Qt I
9 G8Clq p	- 72	2SS 0	2S 410	2Su041	2S4aS	2RS1	Qt I
9 GIOe dpe	272	- 4642	- 44au	- 41 1	- 44- S	SR0-	Qt I
9 Or w8	a72	- 1642	- 11au	- Sa- 4	- 12 u	1R14	Qt I
9 Ot t pI	6- 72	u204-	u1a u	u- S20	u2 06	SR60	Qt I
TEI t IOI dpe	1 671	424a-	41- au	4S40a	414 0	2R4-	Qt I
TEI t IOI dpe	1 672	10214	16a01	16u01	10S1a	1RS4	Qt I
UIr dpe	16471	- - a44	- 4au	- 46S4	- 46u2	2R2	Qt I
UIr dpe	16472	1- uS1	1- 4S	1- 21-	1- 1u	2R1u	Qt I
HwnO8q dpe	16S71	- 010u	- 0u6-	- uS14	- 06u	1R1u	Qt I
HwnO8q dpe	16S72	1u4- S	1064u	10- - 1	10uS-	- R10	Qt I
h O8e dpe	16 71	uu- 2 6u	1Sa2- 002	112SS244	1S- 1uu62	12R	Qt I
h O8e dpe	16 72	411 6S4	42060u0	42Sa0aS	42SS020	1Ra-	Qt I
& ndpe	11 71	62u6260	0u4 a	uSSS4Su	0- 00 4-	12Ru	Qt I
& ndpe	11 72	a44041	a6 SS2	a6 4a	a u41-	1R24	Qt I
&C.	472	1au0u u	2S4- - u4	2S1 60a	2S1 641	1R u	Qt I
&C.	672	- 0SSa a	- 6406S44	- au4S12	- 64uauu4	1R41	Qt I
&C.	072	u02 1a	u0 aSS	u uaa6	u6a1- u	1RS-	Qt I
KIEt iC.	u- 71	- 24	2ua	- S0	- S0	R01	Qt I
Lpwn	2S671	1a14- u	1uu41S	1u- uu4	1u0a1S	2RS2	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	&I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM-a	T8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	TwiwMt8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1 - u -	1 1ua0	1 1S61	1 2201	SRa4	CI I
Lpwn	2Su71	020u6a	01a2 S	021662	022a20	SR62	CI I
LqiGdpe	671	22a 24	204u S6	206S20	26S1- 42	1SR1a	CI I
y wg. pl dpe	2472	24S2u 1	2- a1uu2	2- 2a1SS	2- 04611	1R6u	CI I
y w. gw. pl p	72	S 11S	SaS 6	4a0S2a	S- 0- 2	1R22	CI I
y C8Er np. be	a471	1SS21	1S0- u	1S1- 0	1S2aa	- R04	CI I
y C8Er np. be	a 71	46 1	40- 4	4a 1	400a	- R24	CI I
y C8Er np. be	a671	64S2	6u00	6S00	64 2	6R24	CI I
y C8Er np. be	a071	2a a	- S42	20 a	2a2S	4Raa	CI I
y C8Er np. be	au71	06a4	6au	0644	0441	R 2	CI I
mpOnEe dpe	1 S71	6 110	6 u2u	64a- 0	6 2a4	SR02	CI I
mpOnEe dpe	1 S72	1au- 2	1a uu	1a- 40	1a ua	1R24	CI I
mqCkp8	6S72	2S1- u	1a020	1a6S4	1au2-	1R41	CI I
NGCI t GCIbI	- 172	1SS- 0	1S646	1S22a	1S- S4	- RS2	CI I
NCiwI dpe	- a72	- S60	- S062a	- S 4 u	- S6614	SR 6	CI I
F GCndpe	1S- 71	62a 1u6	0620- 21	uS- S226	0- 10 0u	12R41	CI I
F GCndpe	1S- 72	- 1 0 06	- 2S1141	- - 641a0	- 24Sa01	- R 6	CI I
DOw. ndpe	4 71	4S6a2 2	S- 0226	1u2 41	406- SS0	12R01	CI I
DOw. ndpe	4 72	142Suu	144aS0	14 1 2	144S4a	1R1u	CI I
Dp8p. dpe	u271	2 6	20	21	24a	12R 4	CI I
Dp8p. dpe	0072	u-	1S-	0S	u6	1aR61	CI I
Dp8p. dpe	0u72	a1	aa	u0	a2	6R62	CI I
Dq8qC.	2u71	1S4- 2a0S	a aa 4	a40u24u	au2- 024	R a	CI I
Dq8vpI	1S071	1a10	21- 4	1a0	2SSa	R u	CI I
Dq8vpI	1Sa71	1a S	1u10	10- -	1u- 4	Ra6	CI I
DOndpe	2- 72	- a 140	- a6606	- uaSuu	- a- 6- 0	1RS2	CI I
DiIC. idpe	u671	60au 1	604062	66 46	60- - 6S	1RSu	CI I
DiIC. idpe	uu71	624u624	6S4646S	au- ua2	6Sa2aa2	2R20	CI I
Db8bI	- 471	- 4a- 1S	- Su- 1	- 1uu4	- S60	SR 0	CI I
cpIr dpe	1 a71	uaa160-	112a1 00	114- 110a	1S 01406	12Ra6	CI I
cpIr dpe	1 a72	4SS012a	414u2u2	412160	4Sa2- 62	1Ru-	CI I
cGw8dpe	2S- 71	10u4	1u S	1660	1060	R2	CI I
cGw8dpe	2S 71	41S1	- a10	4- 4-	412S	R1u	CI I
cq	11u71	46S	66u	- S1	406	- R 6	CI I
cqiw. dpe	4071	0 2a4	0424-	02- 2	0- a 4	2RS4	CI I
5 Iw. dpe	2- u71	1uS4u1	10uuu4	10u0Su	10a- u	SR 4	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwCICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	T wiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	172	4a4u2	4uS44	406- a	4u- uu	2RSS	CI I
Yiiplr dpe	10271	1S- 4	11S	1116-	1Su u	4RS	CI I
Yiiplr dpe	10272	112	Su4	11u	1S	SR	CI I
Yiiplr dpe	10671	u4 -	uS1a	u144	u2S6	2R02	CI I
Yiiplr dpe	10672	1- - 46	1- uS0	14u -	14SS2	R 2	CI I
Yiildpe	ua71	121S2142	146- 146-	14au 6SS	1- aS64S2	11R 1	CI I
Yiildpe	ua72	1- 11a 2	1- 1au22	1- aaa0-	1- 4- a16	- R62	CI I
Zq O	6672	0- a-	04S6-	02a 0	0- 6 1	SR02	CI I
ZdqOC. dpe	aS71	2Saa1	21026	221	21624	2R02	CI I
ZdqOC. dpe	a171	40- 4	4u- 4	4u1u	40a	1R12	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAum	2072	40SJ22	460SJ-	46J- J0	46J064	SU4S	ql w
cn&Amony	12171	1hhJ	102h	16hJ	1640	hUSE	ql w
crwenAq	0h72	- 121	- 1- h	- 14S	- 1- 2	SUJ1	ql w
BsrAum	1- h71	1JS6h6	1J0- J6	1J- 0JJ	1J- E4-	1UJ-	ql w
BsrAum	1- 071	- 2216h	- - 6E41	- 21- J2	- 26J2E	2U6J	ql w
BeryPAum	E71	1J02	1E60	1J04	1ES4	2UJ6	ql w
BAumu&G	2SE71	6EEhE- 4	h2- 164-	6- ESh6S	62S6S46	14U4h	ql w
BAumu&G	2SE72	- 22hJJ0	- 2S2104	- 2S4SS0	- 21S6JE	SU41	ql w
BromAne	J171	hEJh	60Jh	6h00	644E	6U44	ql w
RsOmAum	1SJ71	1hS	21-	160	106	1JUJh	ql w
RsOmAum	1S671	444-	- S0h	- E10	- J12	1JUSE	ql w
RsOmAum	11171	1Eh6	1J21	10JJ	1Jhh	4UJS	ql w
RsRqAum	4- 71	11hJ461	124E610	126S461	1222J46	4UhJ	ql w
RsRqAum	4471	1E10021h	1EE24E- 2	2SSJJ42S	1E0- S1JE	2U46	ql w
Rsrbon	1271	- S2220h	- S14- Jh	- Sh- 4- 0	- S- SS- 2	SU6J	ql w
Rsrbon	1272	- 6J- J	- 6262	- 61- 0	- 6412	1US-	ql w
RGPorAne	- h71	2162E- h2	2h2J146S	2000Eh- J	24JE60J-	12U42	ql w
RGPorAne	- h72	2S1E1E	2S62h-	214E0E	2S0010	- U2S	ql w
RGromAum	h272	- 1- 44	- S0J6	- S0JS	- SE0S	1USh	ql w
RobsR&	hE72	- EJS6	- E224	- E1SS	- E- 00	SUE6	ql w
RolI er	6- 72	0J6J0	0JS00	0Jh6S	0J441	SU41	ql w
t ywl rowAum	1h671	hSE6h	h114E	hS6Sh	hSES6	SUh4	ql w
t ywl rowAum	1h672	2SJES	21200	2SJ06	21S14	1USJ	ql w
. rbAum	16471	44SE1	4h02E	4- 2E6	44- 02	2UJS	ql w
. rbAum	16472	1J- - 6	1040h	10h0h	100Eh	2U6h	ql w
HsOoPAum	16S71	4J4Sh	4J- 40	46hS0	400h-	2U26	ql w
HsOoPAum	16S72	222E2	222EE	22h6E	22- J0	SU01	ql w
9 oPmAum	16h71	1S1E020h	0424E- J	E1JS1JS	JE- 41- 1	1hU0S	ql w
9 oPmAum	16h72	422SS42	41J2- 2-	4Shh- J6	41h2hJ4	2USJ	ql w
DnOAum	11h71	024E612	h- - 60E6	641h2- 1	6- - - JJS	1hU14	ql w
DnOAum	11h72	E4JEJ6	E4- 0EJ	E2hE02	E- EhJh	1U2J	ql w
Don	h472	26S1- J2	2hE4114	2hJJS- 2	2hE4hSE	SU26	ql w
Don	h672	46- JhJhE	4660JSJS	4600hEhJ	4661- 2EE	SU44	ql w
Don	h072	11S0JhJ	11S- 64S	11SE6J2	11S0S6S	SU2J	ql w
Kryl &on	J- 71	2E2	- hS	- - 6	- 26	EU2S	ql w
LesO	2S671	2226J6	2- 6S6J	2- 2ShS	2- S26J	2UEJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I ers&or :	aswl sP
Lsb psmI Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psmI Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	1J4212	1E102h	1JJ6E-	1JJ21S	2US1	ql w
LesO	2SJ71	J0- SSS	E1E- 0E	JEEEE6	JE04hJ	2U6S	ql w
LA&GAum	671	2h140hh	2S2hJh-	2- 4144h	22E4S1J	1SUJ1	ql w
5 sgnewAum	2472	2S0E6JS	2SJ- E40	2S4E2E-	2S0SE0-	SUE1	ql w
5 sngsnewe	hh72	206EE2	206h0-	20J0Jh	2004hS	SU42	ql w
5 oPybOenum	E471	2- 161	2- 10J	2- 462	2- 260	SU0-	ql w
5 oPybOenum	Eh71	464-	4626	401J	4662	1USh	ql w
5 oPybOenum	E671	J10J	J42J	Jh- 6	J- J1	2U1E	ql w
5 oPybOenum	E071	- ShS	202h	200h	2JhS	6U14	ql w
5 oPybOenum	EJ71	0400	0400	0h11	04JJ	SU26	ql w
NeoOymAum	1hS71	00E60	J140-	0J4Eh	0E- 12	2UJJ	ql w
NeoOymAum	1hS72	2- - S0	2- 4SS	2- - h1	2- - h-	SU2S	ql w
NAqkeP	6S72	206E4	2601J	26JE6	201S-	1UE2	ql w
8 GowI Goruw	- 172	- 242	- 460	- 210	- - SE	4U16	ql w
8 o&swwAum	- E72	21- 4Eh	2SES- 4	2SEJ- 0	21S0JE	1U1-	ql w
CGoOAum	1S- 71	0212E1h	h202S24	6- hJ4JS	62J114S	1hU4E	ql w
CGoOAum	1S- 72	- 1E1h66	- 1J- ESS	- 1462h2	- 10- ES6	SU06	ql w
pqsnOAum	4h71	46664EE	- 4- 6EJJ	4264- 00	4122621	1hU21	ql w
pqsnOAum	4h72	142- 0J	144hS0	1421h2	14- S12	SUE1	ql w
pePenAum	J271	2hE	161	1J2	2S1	2hUh-	ql w
pePenAum	0072	1S-	1S-	00	E4	16UJS	ql w
pePenAum	0J72	J4	E4	ES	JE	hU6-	ql w
pAAqon	2J71	1h- 1J644	1h- 1124h	1h416666	1h- 4JJh2	SUJJ	ql w
pAPer	1S071	1E60	21hS	2SE2	2S0S	4Uh-	ql w
pAPer	1SE71	1JJ4	10SJ	10E2	10Eh	4UJJ	ql w
poOAum	2- 72	6hJ22h	646JS2	64hSSE	6hSS12	1U1S	ql w
p&onA&um	J671	h460Sh	h02S11	hhEES1	hhEh- E	2U26	ql w
p&onA&um	JJ71	hS2426h	h210hSh	h112104	h110EJ1	1UJE	ql w
puPur	- 471	EE6J4E	1S1- 4S4	1S142E0	1SSJ1J-	SUE0	ql w
i erbAum	1hE71	1S- 2- - 06	061- 6Sh	E1JS64E	ES- E21S	1hUSh	ql w
i erbAum	1hE72	4S12622	4SSES20	- EJS2Jh	4SSS64h	SU44	ql w
i GsPAum	2S- 71	1E2h	2SJ4	2ShE	2S22	4U21	ql w
i GsPAum	2Sh71	4hh1	h1h1	hSh1	4E1J	6Uh4	ql w
i A	11J71	1ESJS	1E- J1	1E0J1	1E414	1UJ1	ql w
i A&snAum	4071	4h- 14	46h26	4h4EJ	4h00E	1U4-	ql w
MrsnAum	2- J71	JEJSJ	E- 2h1	E420h	E244h	2Uh-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	hh011	h4JSJ	h- J04	h40EJ	1U6J	ql w
Y&erbAum	10271	1- 21h	1- J16	1- - 1h	1- 44E	2UJ E	ql w
Y&erbAum	10272	6- Jh	6- Jh	641J	6- E6	SUJ S	ql w
Y&erbAum	10671	E6Eh	E0- 0	1SS46	EJ26	1UEh	ql w
Y&erbAum	10672	1hh01	14J- 1	1h1J0	1h1E6	2U4-	ql w
Y&&Aum	JE71	1- 0614EJ	1S2E114h	12S2J002	12S201- J	14U4-	ql w
Y&&Aum	JE72	1- 16066	1- Sh1Jh	120E6- J	1- SSh- S	1U46	ql w
ZAnq	6672	4- 010	4- S0h	446SS	4- 0EJ	1U0h	ql w
ZAqonAum	ES71	h- - J6	h6JSJ	hhS4-	hhS0E	- U11	ql w
ZAqonAum	E171	124J1	1260-	12Eh6	120S-	1UJJ	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r:	SN1q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	JS6101	J1S- 4S	JSJJS-	JS0- - N	SM12	dDw
qCTb nCh	12171	110J	12- -	1- 10	1242	JN0-	dDw
qpwr Ccd	0J72	1S4J	111-	11- E	1SEE	4M12	dDw
Bspcmb	1- J71	2JS412	2J222E	2J6410	2J- S1E	1M12	dDw
Bspcmb	1- 071	4- EJ- 1	44J626	44NJ- 6	444J64	1N8-	dDw
Br phPmb	E71	1E14	1E4E	1EJ6	1E- E	1M10	dDw
Bcwb mTG	2SE71	01SN10E	011N40E	666N0E0	6E6J1J2	- N0E	dDw
Bcwb mTG	2SE72	- - 2- 41E	- - S4S42	- 1E- 1S0	- 20- J2-	2M1J	dDw
Bpmb cCr	N171	64- J	0120	66- J	60- 2	JN2E	dDw
5 sob cmb	1SN71	N-	01	- -	62	41N04	dDw
5 sob cmb	1S671	- E06	44SE	- 0JE	4S4N	NM1N	dDw
5 sob cmb	11171	E1S	E66	N61	E12	JN0N	dDw
5 sPdcmb	4- 71	E1SJ1	E- 1N1	E- 0- 6	E26J6	1M-	dDw
5 sPdcmb	4471	16- N4JJ	16- S12E	16J2J2J	164S- 0S	SN0E	dDw
5 spenC	1271	- 1EN211	- 2- N6N0	- 26S- 2J	- 2- 24SN	SNEN	dDw
5 spenC	1272	- 0N24	- E11E	- N2N4	- N4SE	1N01	dDw
5 GPnpcCr	- J71	222121N-	26462144	2ES2JS62	2JNEE0E6	1- N2E	dDw
5 GPnpcCr	- J72	2140N-	2102E0	224J04	21NNNJ	2M12	dDw
5 Gpmb cmb	J272	- - N2S	- - 10J	- - - - E	- - 44J	1N8S	dDw
5 nesPT	JE72	2S16N	1E64S	1EE- 4	1EE14	1M-	dDw
5 nDDr p	6- 72	402JJ	46462	46E11	46N06	SNMJ	dDw
&hwDpnwcmb	1J671	0SE40	6E016	0262-	01SEJ	2N8J	dDw
&hwDpnwcmb	1J672	2E222	2NESN	2E1EE	2E11S	SN0S	dDw
Fpecmb	16471	JJJ42	JJNE-	J612S	JJNJ1	SM12	dDw
Fpecmb	16472	226N6	22S02	21NEN	2221E	1NM6	dDw
HsonPCcmb	16S71	JN24J	JE- 2J	JE606	JESN2	1N26	dDw
HsonPCcmb	16S72	206NE	200SE	20602	206ES	SN80	dDw
y nPb cmb	16J71	1S- 2JJ1N	1S10E606	E22N020	EE11- S0	6N81	dDw
y nPb cmb	16J72	42EJ2E6	414601S	41040- 1	42SJJ0E	1NMN	dDw
tCocmb	11J71	04S6E04	04J2E66	66E2E06	01N4- SJ	JNE-	dDw
tCocmb	11J72	E0JE22	EJ0S44	E4NE06	E6S640	1M44	dDw
tpnC	J472	1JN- 16J	1J0NN1-	1J6606-	1J06240	SM14	dDw
tpnC	J672	2N- 06E10	2N44- - S1	200E41S-	2N2S400-	1N20	dDw
tpnC	J072	6N2E20	6NS- 0S	664N20	606S41	1M4J	dDw
KphDTnC	N- 71	- - S	- 41	2N4	- 1N	EM0	dDw
Lr so	2S671	146ESE	1400JJ	1JS4E1	14N- NJ	1N26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 16:- J:14	&sTsUdP usb r:	SN1q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	11N401	12S142	121212	11EE42	1M1J	dDw
Lr so	2SN71	J0S64N	J044- E	J0E0SE	J04E- 2	SM0E	dDw
LdTGmb	671	26- NE- 4	260S21-	2422- 60	2J00101	JM24	dDw
9 sgOr wcmb	2472	- 2E20N	- 1E146	- 2J422	- 2461J	1MIN	dDw
9 sOgsOr wr	JJ72	- NJJ64	- N- - 4J	- 0NJ4N	- N24N6	SMEE4	dDw
9 nPheor Cmb	E471	6J1N	664-	6000	6646	1NE4	dDw
9 nPheor Cmb	EJ71	20JS	2- JS	2JJE	2JJ-	0NM4	dDw
9 nPheor Cmb	E671	- 0JE	- EJ1	- N10	- N42	2M6	dDw
9 nPheor Cmb	E071	16SN	1660	1NSS	16E2	JNM1	dDw
9 nPheor Cmb	EN71	- EJ1	4142	4S60	4SJ-	2MIN	dDw
u r nohb cmb	1JS71	12410S	12JJ10	12J6- 1	12J1S6	SM0J	dDw
u r nohb cmb	1JS72	- NJN6	- 0121	- N110	- 0E41	1NE0	dDw
u cdkr P	6S72	11N6J	110- 2	11N- J	11N11	SMIE	dDw
8 GhwDGhpmw	- 172	1- E2	1J- -	14SS	1442	JM1	dDw
8 nTswwcmb	- E72	2SN- N1	21S- 20	211JJ4	21SSN0	SM06	dDw
. Ghocmb	1S- 71	0414E66	02100JN	6626N- N	0SN6J21	JM0E	dDw
. Ghocmb	1S- 72	- 2S- - 2N	- 24SE24	- 16J12S	- 2S- 124	1MIN	dDw
I dsCocmb	4J71	4N4N614	4000EE1	42EJ4S0	464S601	6MIE	dDw
I dsCocmb	4J72	14J6NS	14- NN-	14- 421	144- 2N	SMM-	dDw
I r P Cmb	N271	E6	NJ	14S	1S0	20M-	dDw
I r P Cmb	0072	16-	1J-	1J0	1JN	- M-	dDw
I r P Cmb	0N72	E0	E4	NN	E-	4NE-	dDw
I dcdnC	2N71	12021NJ-	12E20E- 4	1- 12E6S2	12E2646-	1MIN	dDw
I dPr p	1S071	0SN	1S2J	0E2	N42	1EMS	dDw
I dPr p	1SE71	0JS	02J	02J	0- -	1NE0	dDw
I nocmb	2- 72	- 20S4	- 2- 4J	- - 6- 1	- 2NE-	2NS2	dDw
I TpnCTcmb	N671	16J66E	16N2- N	16J664	166J24	SMME	dDw
I TpnCTcmb	NN71	1J2JS6-	1J44NS1	1J14SE2	1J20ENJ	1NS2	dDw
I mPmp	- 471	206N60	201S- J	26JS4N	20SEN-	2MIN	dDw
Ar pecmb	1JE71	1S66J46-	1S4N- 44E	E- 2SN6N	1S1J6JE-	0MIN	dDw
Ar pecmb	1JE72	41J6- 66	41S2S06	- E0EJE2	4S0E- 4J	2M2	dDw
AGsPcmb	2S- 71	1610	10SS	1060	16EJ	4M4	dDw
AGsPcmb	2SJ71	4SSE	- N06	- N06	- E2S	1NE6	dDw
AdC	11N71	0N6E	NJ2N	N011	N- 6E	JM2E	dDw
AdsCcmb	4071	11SSE0	1126E1	11- 11-	111E60	1M46	dDw
RpsCcmb	2- N71	- 40N2	- J6- 4	- 464N	- JS21	1M-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r :	8 N
5 Rr CTI sb DP t&:	9 y SU4J	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 16:- J:14	&sTsUdP usb r :	SN1q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	- N104	- 0J42	- 0422	- 001-	1N30	dDw
YTTr pe omb	10271	1N46-	1E24N	1E2EN	1ESS-	2M46	dDw
YTTr pe omb	10272	ES2S	N6- 1	N4- 6	N6E6	- M42	dDw
YTTr pe omb	10671	1- 24E	1- JE1	1- 104	1- - - N	1M60	dDw
YTTr pe omb	10672	160- E	16466	16NJJ	166N0	1M2S	dDw
YTTpomb	NE71	14J6S2N1	1426E- - 2	12EN2- S4	1- E- 0- S6	6N3-	dDw
YTTpomb	NE72	1410- J1	1- 0J46-	1- 2J11S	1- 02641	- M16	dDw
ZdCd	6672	2- 2JE	22N22	2- 2SE	2- SE0	1N34	dDw
ZqpdnComb	ES71	140JN	1J410	1J2JE	1J14J	2M20	dDw
ZqpdnComb	E171	- 426	- - 42	- 10J	- - 14	- NM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RFen&psmI Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	44y S2	4h- hS4	4h4661	4h26hh	SUh6	ql w
cn&AmonE	12171	2y 4	2 10	2 42	2 1	- U12	ql w
crwenAq	0h72	21S4	21h-	2212	21h0	2Uh1	ql w
BsrAm	1- h71	2- 1h 4	2- hhSh	22 214	2- 106	1Uh0	ql w
BsrAm	1- 071	412- h2	4ShSh-	4Sh04-	4S0016	SUyy	ql w
BerEHAm	y71	12 y	1- S2	12- 2	1204	2Uy1	ql w
BAmu&G	2Sy71	01 1S22	6y241 6	0S46 4	0ShS6 6	1U 2	ql w
BAmu&G	2Sy72	- - 41hy-	- S0 h2h	20 y0h-	- S6yyh0	Uyy	ql w
BromAne	171	60S2	0- 20	0S- h	0S21	4U46	ql w
RsOmAm	1S 71	2h	21-	10h	21h	1yUy	ql w
RsOmAm	1S671	4- 60	4S 4	4Sy2	41 1	- U6	ql w
RsOmAm	11171	2yy	2 h2	- 112	2y 0	4U0	ql w
RsRqAm	4- 71	h- h42	h- yy02	h- h S2	h- 0S60	SU40	ql w
RsRqAm	4471	yS- 010-	y 1 - h	yS21- hS	yS1- 4h2	SU2	ql w
Rsrbon	1271	61y - 6y	6- hh0h1	646661-	6- 4S24h	2U1-	ql w
Rsrbon	1272	0000-	00- 4h	0 142	000h-	SUh1	ql w
RGRorAne	- h71	2- - 02- S6	26hy2- 2h	2ySh6- 4	26- 4S- 26	1SU2	ql w
RGRorAne	- h72	21- 12	210y10	21 4- y	21602-	1U10	ql w
RGromAm	h272	- 21Sy	- 2644	- - 1 y	- 2640	1U6h	ql w
RobsR&	hy72	2y2- 0	2y0y1	2y64	2yhh	SUy0	ql w
RoI I er	6- 72	60y-	66 6S	66 S	60226	SUy2	ql w
t EwI rowAm	1h671	- 41h-	- h2 1	- - 6S	- 44- 1	2U1	ql w
t EwI rowAm	1h672	14h-	142 1	146h	144y2	1U-	ql w
. rbAm	16471	2y - 4	2y660	2 4 y	2y- - S	2UhS	ql w
. rbAm	16472	1110h	11h- h	1166h	114h	2U22	ql w
HsOoRnAm	16S71	- 24yy	- 1 - y	- 210-	- 210S	1US-	ql w
HsOoRnAm	16S72	1h2Sh	1hS6y	1h2 6	1h1 0	SU02	ql w
9 oRnAm	16h71	1S1y64S0	y 6h0 S	1SS111- 4	1SS2444S	1U6h	ql w
9 oRnAm	16h72	4SySyS0	- y h- 42	- h- 664	- 0Sy66	0U6S	ql w
DnOAm	11h71	0261426	02y- ySy	02ShSy0	02h- 400	SU62	ql w
DnOAm	11h72	y4h 40	yh1- 0	S4222	10- h	U14	ql w
Don	h472	2Sy- 04	214 2 6	2Sy- 6- 6	2111 yS	1U4y	ql w
Don	h672	- 01hy01-	- 0- 61y4S	- yS00S6y	- 0 66241	2U0	ql w
Don	h072	S61	y1241-	ySh- 4	yS1y41	1Uy	ql w
KrEI &on	- 71	204	- SS	20S	2 1	hU1	ql w
LesO	2S671	1yhh2	1y4- 00	1y4- 06	1y406S	SU4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psmI Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	16111-	161404	16S61	161S6y	SU20	ql w
LesO	2S 71	061y0y	0h40- h	04 y6-	0hh226	SU 6	ql w
LA&GAum	671	2h00y01	2h 4 6	2h6hy2S	2h062h-	SU0	ql w
5 sgnewAum	2472	1h4yy66	1h266- 1	1h6- 1Sh	1h46h60	1U1y	ql w
5 sngsnewe	hh72	- 1yS4S	- 2264h	- 24y 0	- 22224	SUy-	ql w
5 oPEbOenum	y471	4h	y4h	6- 6	Sy	1U0y	ql w
5 oPEbOenum	yh71	h01S	h1y-	h- S1	h4S1	hUSh	ql w
5 oPEbOenum	y671	0S- h	0120	601S	6yh	- U1h	ql w
5 oPEbOenum	y071	- 142	- S42	- 1 4	- 12-	2U-	ql w
5 oPEbOenum	y 71	y112	y4 0	ySh-	y210	2Uhh	ql w
NeoOEmAum	1hS71	h4hy	h6164	hh h6	hhh- y	1U4y	ql w
NeoOEmAum	1hS72	1hy6S	16- S0	16- S-	161yS	1U2-	ql w
NAqkeP	6S72	2Sy 6	2S hh	2S- 4	2S0- S	1U62	ql w
8GowI Goruw	- 172	40 4	4 1	40- 4	400y	SU	ql w
8os&swwAum	- y72	- SS026	- S0 - 6	- S42 S	- S42 1	1U10	ql w
CGoOAum	1S- 71	02yhy26	0Sy- y61	0SyS2 S	016SSh6	1U64	ql w
CGoOAum	1S- 72	- 10hyh4	- S40 - 4	201y- 11	2y 1S- -	0UyS	ql w
pqsnOAum	4h71	40S- y02	4h 210y	40ShS- y	466- 0- S	1Uh1	ql w
pqsnOAum	4h72	141022	1- h1y2	11yh- y	1- 21h1	U6-	ql w
pe&enAum	271	116	11y	1Sy	11h	4Uh4	ql w
pe&enAum	0072	h0	S	h0	64	2SUyS	ql w
pe&enAum	0 72	6S	0-	06	0S	12U21	ql w
pAqon	2 71	1- Sy14yh	1- S06y 6	12y6 620	1- S4h0S-	SUh1	ql w
pAer	1S071	22y2	2hSy	22hy	2- h-	hU00	ql w
pAer	1Sy71	22y2	2- 2h	24Sy	2- 42	2Uh0	ql w
poOAum	2- 72	460hy	401 6	4044h	401- S	SU0-	ql w
p&on&Aum	671	10Sh1	166142	16 S40	16 2- 6	1US	ql w
p&on&Aum	71	1h40216	1h60- Sh	1h261Sh	1h46 0h	1U-	ql w
pu&ur	- 471	- SSS1S	- S- - 6	- Sh4h2	- S2y4y	SUy1	ql w
i erbAum	1hy71	1Sh1y-	1S1- - 6S1	1SSy1- h2	1S24 114	2US	ql w
i erbAum	1hy72	- y 6y46	- 6 0	- 40h6y4	- 00010-	0USy	ql w
i GsPAum	2S- 71	2S2h	22 4	212h	214h	6USS0	ql w
i GsPAum	2Sh71	4yhy	4 h1	hSS1	4y- 0	1Uh0	ql w
i A	11 71	44S1	44- 4	4126	4- 2S	- Uy2	ql w
i A&snAum	4071	60- 0h	6 Sy6	6hh42	60SS4	1Uy0	ql w
MrsnAum	2- 71	4 260	4y2hh	hSyh-	4y4y2	2U04	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	h226y	h241y	h100S	h21h2	SU6h	ql w
Y&erbAum	10271	4h	hyh	h61	660	1U0y	ql w
Y&erbAum	10272	- 010	4Sh6	4- 2-	4S- 2	0Uh-	ql w
Y&erbAum	10671	6y44	6yh2	0S- h	6y00	SU0-	ql w
Y&erbAum	10672	1- 46-	12 6	12S61	120y0	hUhS	ql w
Y&&Aum	y71	1- - 6 4- 1	1- 61 146	1- - - h- 2-	1- 44S6- -	1U1h	ql w
Y&&Aum	y72	12 2Sy	12- 1yy	1Sy6- 4S	12Shh16	U1	ql w
ZAnq	6672	h116h	h1 -	h1102	h1- y2	SU0h	ql w
ZAqonAum	yS71	140hS	1h6- 4	14h16	14y60	- Uy4	ql w
ZAqonAum	y171	- 406	- 426	- SSy	- - S-	0U06	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
LwrJDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
d8be qFqpe	20:2	2S7u070	1yu077y	1y 76S6	1yy y04	U1S	Qt l
dFiqe . Fh	121:1	27y0066	26026S1	264S4 4	26 6y 4	1U42	Qt l
dll pFqO	07:2	6771u	64627	62676	64260	2U2u	Qt l
Bwlqpe	1 7:1	2uu2646	2y62600	2yy1u26	2y47016	1Uy2	Qt l
Bwlqpe	1 0:1	7S 0u70	7106266	7Sy760	71S 266	1U 6	Qt l
Bplh8qpe	y:1	6S7 2y	62112y	61y116	6171y1	1U4S	Qt l
Bqle biE	2Sy:1	61 6606	62yu1	6 216S6	62721 u	1U61	Qt l
Bqle biE	2Sy:2	2ySy600	2u7u27S	2u10460	2u610yu	1U61	Qt l
Bl. e qFp	u1:1	4S 4	4S60	y 4	4S12	1U0	Qt l
3 wne qpe	1Su:1	7Suu1	72462	7 u06	724S6	2Uu6	Qt l
3 wne qpe	1S6:1	0427S	0474	0 u14	042S	SU4y	Qt l
3 wne qpe	111:1	61Sy27	6270 y	6210 S	61y467	1U24	Qt l
3 w8Qqpe	4 :1	007464	uS0746	uS0y67	0y6yy2	SU4y	Qt l
3 w8Qqpe	44:1	7uy404S2	6SS2002	612112u6	6SS621 0	1Uuy	Qt l
3 wlr . F	12:1	26 y716	20S 160	2uSy647	201044	U16	Qt l
3 wlr . F	12:2	0624	07u2	6014	0 S6	1U u	Qt l
3 E8 lqFp	7:1	16y 10	16ySu71	164 4y6	1607u4S	1U60	Qt l
3 E8 lqFp	7:2	1116	1S421	yu74	1S40y	6U20	Qt l
3 El. e qpe	72:2	0S6S12	6y076S	602174	6y1ySy	2U77	Qt l
3 . r w8	7y:2	1262Su4	124u10u	12S02uy	12 y1u4	2U S	Qt l
3 . t t pl	6 :2	1S074124	1S00SySy	1S7 S676	1S6u722y	1U26	Qt l
Thl t l. lqpe	176:1	027	07S	67u	011	6U66	Qt l
Thl t l. lqpe	176:2	2	SS	20	10	4U7y	Qt l
Glr qpe	164:1	2SS	17u	1u	1u1	11U62	Qt l
Glr qpe	164:2	6	1SS	0S	0u	27U1	Qt l
Hwn. 8qFqpe	16S:1	u	0y2	042	0uy	7Uu2	Qt l
Hwn. 8qFqpe	16S:2	44	4 0	400	472	4U04	Qt l
K. 8e qpe	167:1	uy2S02u	y 621y0	y2u4746	y1uy170	2U76	Qt l
K. 8e qpe	167:2	y44224	y 0S2S	u6y7S0	y16y10	1US7	Qt l
8Fnqpe	117:1	6 y4u	67y6y72	6 71406	642y S4	2U26	Qt l
8Fnqpe	117:2	u70 60	u62uyS	u S uS	u7S212	2US7	Qt l
8. F	74:2	u266S0u	u1uy410	0y1y24S	u124y12	2U24	Qt l
8. F	76:2	17SSyy27	1712SS126	144u6y 64	14u022y14	2U20	Qt l
8. F	70:2	ySSu2S	u774S4	74u6u0	06u S4	7USu	Qt l
glht i. F	u :1	21y	27y	240	242	uU7	Qt l
Lpwn	2S6:1	124Su6 6	12772064	1201u712	1277yy01	1U2	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
Lpwn	2S0:1	1Su 04 y	1Syu144S	11126Suy	1Syu1676	1U 1	Ol
Lpwn	2Su:1	4yy2y 21	71 06046	7100 6 6	71S26760	1UyS	Ol
LqiEdpe	6:1	2 S2y76	22uu70u	2 17u2S	2 S2471	SU7y	Ol
5 wkFpl dpe	24:2	2u 767u0	2uS2yS11	202 1S04	20u02224	2USu	Ol
5 wFkwFpl p	77:2	uS4762	0u7671	6y u6S	061 7u	1U70	Ol
5 . 8hr npFbe	y4:1	y72 77u	y6yS26y	y76u06u	y7y41yu	SUyS	Ol
5 . 8hr npFbe	y7:1	1 u4112S	141u1721	1422 17S	14Su1y S	1U4y	Ol
5 . 8hr npFbe	y6:1	14y441y7	17027614	17767uy6	17411yS1	2U6u	Ol
5 . 8hr npFbe	y0:1	u7u4210	uu61 uy	u040702	u0 1S7y	1U6S	Ol
5 . 8hr npFbe	yu:1	227S10u2	2 S2Su46	22u02S 4	220yu221	1U10	Ol
mp. nhe dpe	17S:1	220	2S	20	20	10US0	Ol
mp. nhe dpe	17S:2	7S	S	7	44	2uUy	Ol
mqOvp8	6S:2	u440	y12u	S122	7uyy	1U4y	Ol
NE. l t E. lbl	1:2	1y6S7	1yS1	1uu46	1y177	2USu	Ol
N. iwl l dpe	y:2	u66772u	u02u167	u 6 26y	u7u7674	2U20	Ol
9 E. ndpe	1S :1	612S 17	610u7Su	621027u	6102S20	SU0y	Ol
9 E. ndpe	1S :2	2u16y74	2uSy77S	20 S477	20u767	1U02	Ol
DOwFndpe	47:1	4SS0066	4S0y 2y	416y1 0	4Su7411	1Uyu	Ol
DOwFndpe	47:2	1 1441	1 1 07	12uS12	1 S206	1U71	Ol
Dp8pFdpe	u2:1	44yS	467SS	466S0	46SS	2USu	Ol
Dp8pFdpe	00:2	1 7	1 7S	1 70	1 7	SU27	Ol
Dp8pFdpe	0u:2	4600	44y2	44S6	4727	US6	Ol
Dqq8Q F	2u:1	207SSyS4	200u 4u	2uS0y7u	200u0y47	1US4	Ol
Dq8pl	1S0:1	77447	77S 1	427201	0u7u2	1U2S	Ol
Dq8pl	1Sy:1	10 u17	1y6464	266026	212 7	1U71	Ol
D. ndpe	2 :2	7SuSy2y0	4y6u0721	4u42y 7	4y642S71	2U4S	Ol
Dil. Fidpe	u6:1	1uy64744	1y1740 2	1y41Syu	1y10607	1U10	Ol
Dil. Fidpe	uu:1	16 202y4y	166774u62	16 4yu116	164441y06	1U11	Ol
Db8Vl	4:1	74u 76	742y6y	744 47	74722	SU71	Ol
cplr dpe	17y:1	y2u7 1S	y7uSS7	y6y74 S	y72S264	2U22	Ol
cplr dpe	17y:2	ySS S2	u64S0u	60 6 0	u12602	U1y	Ol
cEw8pe	2S :1	S 1410	S26yuy	S276S	S2uSS	SU1S	Ol
cEw8pe	2S7:1	01414 S	01 67S6	0264740	01uSu2u	1US1	Ol
cqF	11u:1	2S0u6 0	224u471	21u 02y	210S20	Uy7	Ol
cqwFdpe	40:1	60yS04	07u1y0	007026	0 0667	1UUu	Ol
RlwFdpe	2 u:1	1S60 1y7	1Sy 70u6	11 677S0	1Syy14y6	U1u	Ol

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
- wFwndpe	71:2	740070	74 S7y	720217	7 y 44	2U8SS	Qt l
Yiiplr dpe	102:1	1y2	2SS	210	2S	6U2u	Qt l
Yiiplr dpe	102:2	110	0u	1SS	yu	1yUuu	Qt l
Yiiplr dpe	106:1	14216	1 uy1	14S41	14S7S	1U16	Qt l
Yiiplr dpe	106:2	17001	17u67	17001	17uS2	SU 7	Qt l
Yiildpe	uy:1	11u SS7y	12S6 S64	1160204	11u772uy	1U66	Qt l
Yiildpe	uy:2	1160u10	1162077	11420u6	11700u6	1U14	Qt l
ZqFO	66:2	1272u14	12 1u71	12S4y S	122yu67	1Uy7	Qt l
ZqlQ Fdpe	yS:1	4442u07	46u01 0	4701666	4760226	2U6u	Qt l
ZqlQ Fdpe	y1:1	y6 uu7	yy 7S0	yu0yyu	yu10y0	1U6S	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8 spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
qPmb c omb	20 2	101	10y	16S	10S	-U--	dDw
q. Tb C. h	121 1	1SN7	11-N	17y2	1211	17U2N	dDw
qpwr . cd	0- 2	4	-	4	4	17U72	dDw
Bspomb	17- 1	22-	2SN	210	210	7UN-	dDw
Bspomb	170 1	742	4SS	-2-	422	22U1N	dDw
Br phPmb	y 1	12y	11S	122	12S	0Uy7	dDw
Bcwb mTE	2Sy 1	6y17-1-	662SN1-	66yS27N	6041-27	2U20	dDw
Bcwb mTE	2Sy 2	71NNN2y	71NN10y	72N27NS	721y0y6	1U6N	dDw
BpCb c r	N1 1	76-y	4142	4S74	7y4-	6U47	dDw
3 sob omb	1SN 1	7N	N	17	1y	N1U14	dDw
3 sob omb	1S6 1	7--y	7426	7726	7470	7U41	dDw
3 sob omb	111 1	4-y	4N7	424	4--	6U S	dDw
3 sPdomb	47 1	--S	4y6	4-y	-S2	yU14	dDw
3 sPdomb	44 1	76N46	7-171	74414	7-464	7U2	dDw
3 speC.	12 1	274--44	277S6Sy	2714220	277S126	SU60	dDw
3 speC.	12 2	200S2	2006N	2NS1y	20N7S	SU6S	dDw
3 EPOpc r	7- 1	14142Ny	17-S100	17-1N4y	17021S-	2U66	dDw
3 EPOpc r	7- 2	N76y	NNN6	N761	N-7y	7U2	dDw
3 EpCb omb	-2 2	1S4S	11S7	1170	1Sy7	4U4y	dDw
3 CesPT	-y 2	1S7	-7	6S	02	70Uy	dDw
3 CDDr p	67 2	10-7	1077	1660	101N	2U64	dDw
&hwDpOwomb	1-6 1	N	S	S	7	107U21	dDw
&hwDpOwomb	1-6 2	S	S	7	1	107U21	dDw
Fpeomb	164 1	60	77	-S	-S	77U74	dDw
Fpeomb	164 2	10	10	10	10	SUSS	dDw
GsoCPe omb	16S 1	N7	1SN	N7	y2	1-U04	dDw
GsoCPe omb	16S 2	1S0	110	y7	1S6	11USy	dDw
HCPb omb	16- 1	yN72-10	y21y--0	y4707NN	y4y64N0	7U20	dDw
HCPb omb	16- 2	4S000y2	4SyN4S0	41S1476	4Sy2-4-	SU71	dDw
t. oomb	11- 1	0S41SNS	6NS4260	6NSySN4	6NN4N1S	1Uy0	dDw
t. oomb	11- 2	y2011-	y7-4N2	y7Sy12	y7110S	SU4-	dDw
tpC.	-4 2	60N	-44	044	6-6	1-U7	dDw
tpC.	-6 2	N-0-	02-2	00y1	0N07	NU4-	dDw
tpC.	-0 2	7S6	261	2-S	202	1SUNS	dDw
KphDTC.	N7 1	2-2	2S2	2--	270	12U1	dDw
Lr so	2S6 1	1N11	1N74	164-	1067	-UN6	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tusb r:J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r:qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdPP:usb r:J	SN-3 3 BFUb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Lr so	2S0 1	10-6	1-02	1611	1646	-UN0	dDw
Lr so	2SN 1	N10y	0462	01yS	061S	6U01	dDw
LdEomb	6 1	2-147yS	276N2-y	27y672-	2426724	7U2S	dDw
5 sg. r womb	24 2	ySN	Ny2	y0-	y2-	4U06	dDw
5 s. gs. r wr	- - 2	2S7	1yS	21S	2S1	-US6	dDw
5 OPheor . mb	y4 1	1777	122-	112-	122N	NU4y	dDw
5 OPheor . mb	y- 1	1y-S	1010	1-SS	1022	17US0	dDw
5 OPheor . mb	y6 1	222-	1y74	100-	1y0N	11U-4	dDw
5 OPheor . mb	y0 1	122-	1Sy2	y-N	1Sy2	12U21	dDw
5 OPheor . mb	yN 1	7726	2610	2474	20y2	16UN0	dDw
u r Cohb omb	1-S 1	17	17	17	17	SUSS	dDw
u r Cohb omb	1-S 2	7	S	7	2	N6U6S	dDw
u odkr P	6S 2	6S	-7	y0	0S	77U74	dDw
8 EOwDEOpmw	71 2	1N7	142	1-N	161	17US2	dDw
8 CTswwomb	7y 2	114S-	111S-	12S40	11-1y	4U1N	dDw
9 EOomb	1S7 1	0S70S-S	6676yN0	664y22-	6004421	7U76	dDw
9 EOomb	1S7 2	72NN0y-	7S04N27	71421S7	716N-04	7U4-	dDw
I ds. oomb	4- 1	4-1y66N	41N-127	4716446	474S412	7UNN	dDw
I ds. oomb	4- 2	17-N-2	1706-6	17NSN7	1701y0	SUN6	dDw
I r PP. omb	N2 1	4	24	7	6	266U26	dDw
I r PP. omb	00 2	S	S	7	1	107U21	dDw
I r PP. omb	0N 2	11	0	y	y	22U22	dDw
I dPdC.	2N 1	1y7101	1N76S6	1N2y04	1N6-N4	7US6	dDw
I dPr p	1S0 1	70-	7y2	7SN	7-N	12U71	dDw
I dPr p	1Sy 1	742	242	2-N	2N1	1yU1S	dDw
I Coomb	27 2	7704S	72021	777N1	772NS	1U-	dDw
I TpC. Tomb	N6 1	2SN4	1NSy	1-10	1NS7	1-U02	dDw
I TpC. Tomb	NN 1	14S-4	11SSy	11216	12Sy7	14US0	dDw
I mPmp	74 1	2NyN-6	2N1y-6	2N4710	2N-706	1U42	dDw
Ar peomb	1-y 1	yN26746	y-S7y-1	y4S722-	y-00N41	2U71	dDw
Ar peomb	1-y 2	7y6y-y2	7yS1724	4S2S741	7y670-2	1U1	dDw
AEs PPomb	2S7 1	1742	1242	112-	1276	NU00	dDw
AEs PPomb	2S- 1	7210	7S2-	2ySy	7S-S	-U1S	dDw
Ac	11N 1	1242	1277	1S-S	110-	yU22	dDw
AdS. omb	40 1	4-S	410	-SS	4-6	yU21	dDw
Rps. omb	27N 1	N0-	042	4y2	0S7	20U6y	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Vs. sodmb	- 1 2	27	2S	20	27	14U2y	dDw
YTTr pedmb	102 1	- S	2-	60	40	44U41	dDw
YTTr pedmb	102 2	11	11	22	1-	47U7S	dDw
YTTr pedmb	106 1	11SS	1177	1177	1122	1U01	dDw
YTTr pedmb	106 2	1S666	1S67N	1SN20	1S01S	SUy-	dDw
YTTpdmb	Ny 1	126SNyNy	12SNS646	1227S041	127S60y2	2U21	dDw
YTTpdmb	Ny 2	122yNS-	122- 2- 2	122NS41	12206yy	SU1y	dDw
Zc d	66 2	1- S	1yS	210	1N6	1NUSN	dDw
ZqpdC. dmb	yS 1	y77	62-	N- S	NS7	1yUN0	dDw
ZqpdC. dmb	y1 1	1- N	1SN	1- N	142	2SU7N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	TwiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	aa12a6	aa- a1	a4041S	aaS02u	SRa6	CI I
d. iqe C. E	12171	- 1- 4	- 4S	- 1S	- 210	aR1u	CI I
dIl p. qO	0a72	- SS4	2 ua	- S12	- SSS	SR46	CI I
Bwldpe	1- a71	- 122aS	- 14- 64	- 21- a2	- 1a u	1Ra1	CI I
Bwldpe	1- 071	aa0- 16	aa 4- 6	a64aau	a6S4- 6	SR66	CI I
BplE8dpe	71	1664	16SS	16S2	1622	2R2-	CI I
Bdqe biG	2S 71	6044u6a	6uSSu	6u2aa64	60 S44-	SR61	CI I
Bdqe biG	2S 72	- 102 42	- 20- 6u0	- 2- - a1a	- 22601a	1Ra0	CI I
BICe q p	u171	0661	0 11	0400	06u-	2Ru-	CI I
9 wne dpe	1Su71	201	10	22	226	2SR20	CI I
9 wne dpe	1S671	4S06	41S	4S06	4Su0	SR40	CI I
9 wne dpe	11171	2u00	2 - 6	2 a2	2 21	1R a	CI I
9 w8Cdpe	4- 71	u00 16	u0062S	u6ua0	u040Sa	SR61	CI I
9 w8Cdpe	4471	14611a6	14 S66- 2	14u0- 266	140 01aa	1RS	CI I
9 wIr C.	1271	- a2- 42u	- 6- a6Su	- 010- 04	- 62a40S	2R6	CI I
9 wIr C.	1272	4aSa-	4a- 2S	4aa21	4a2 u	SRa2	CI I
9 G8CIq p	- a71	1S022116	1- u26- 46	162uu20u	1- 612240	2SR4	CI I
9 G8CIq p	- a72	1442-	14 S02	1aaS1a	14 442	- R61	CI I
9 GICe dpe	a272	- 4a	- 41u1	- 4201	- 4- aS	SR64	CI I
9 Cr w8	a 72	- u6 -	- u - -	- Sa0	- uu 4	SR4u	CI I
9 Ct t pI	6- 72	024a4	01 41	0112S	01u- u	SR 4	CI I
TEI t ICI dpe	1a671	412- 1	41- 6a	41- 4S	41- 12	SR10	CI I
TEI t ICI dpe	1a672	10022	10u22	10- 41	1062u	1R44	CI I
UIr dpe	16471	- a140	- 4Sa-	- 41S-	- 44- 4	1R0	CI I
UIr dpe	16472	1- 6S0	14- 14	1- 1	1- 01	2Ra-	CI I
HwnC8q dpe	16S71	- u- - 1	- u004	- u2- 1	- u44a	SR0a	CI I
HwnC8q dpe	16S72	10a12	10002	1u1a	10u14	1Ru-	CI I
h C8e dpe	16a71	6 2u1	- 101S	61- uS	04u- 24	1R6	CI I
h C8e dpe	16a72	416aS1a	41a 201	414S062	41aaS16	SR 1	CI I
& ndpe	11a71	606S- SS	6 S6S0S	6u2004S	6u- 1- 0S	1RS0	CI I
& ndpe	11a72	4S a	4S 26	aa 00	4a 66	SR 2	CI I
&C.	a472	2aS2S01	24aaaua	2446 Su	246u1uu	1R2S	CI I
&C.	a672	46S- 60a1	4- 1402	444aS6Su	44u26200	2R	CI I
&C.	a072	1S04110	1Sa11 1	1Sa 0S	1S61602	1RS	CI I
KIEt iC.	u- 71	2a4	- 11	2ua	2u-	1SR16	CI I
Lpwn	2S671	2266a-	222u- 6	22- 0a4	224414	SRu	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T8piqC. :MwCICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	T wiwMt8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1u- 6a	1u- 12-	1u6S 6	1u4- a	SRu-	CI I
Lpwn	2Su71	u6 1Su	u62- 40	u04a 1	u6u6u2	SR01	CI I
LqiGdpe	671	2aa2012	2a22 14	24- 24u	2aS4 au	2R a	CI I
y wg. pl dpe	2472	1aa- a66	1au 1u6	1aa2400	1a6aS06	1R -	CI I
y w. gw. pl p	aa72	- - u1S	- u 001	- S0aS	- 1444	SRa4	CI I
y C8Er np. be	471	1S601	1S- 01	1S6S4	1Sa4	1R4	CI I
y C8Er np. be	a71	u011	0 4	uS2u	u244	4R 1	CI I
y C8Er np. be	671	1S- 6-	u0	10S	uS4	6R12	CI I
y C8Er np. be	071	a- 1S	a226	4ua1	a12	4R06	CI I
y C8Er np. be	u71	144aS	1- 21a	1204u	1- 401	6Ra-	CI I
mpOnEe dpe	1aS71	64aa6	6a4	6aS10	6aS24	SR0-	CI I
mpOnEe dpe	1aS72	1 601	2S- 46	2SS62	2SS26	1R6	CI I
mqCkp8	6S72	26S60	2a0aS	261- 0	2a ua	SR0	CI I
NGCI t GCIbI	- 172	2 2	2 SS	2 SS	2 - 1	1Ru1	CI I
NCiwI l dpe	- 72	240- 40	24642a	2462- 1	24666u	SR24	CI I
F GCndpe	1S- 71	66011ua	6u6u- au	60- 01u-	60au Su	1R4u	CI I
F GCndpe	1S- 72	- Su a6S	- 1u06u1	- 210 Su	- 16aSaS	2R12	CI I
DOw. ndpe	4a71	444a0Sa	4a1u00S	446- ua2	44061S	SRua	CI I
DOw. ndpe	4a72	1446- u	14142u	14- 261	14- 1S	1R1-	CI I
Dp8p. dpe	u271	1a0	6	124	126	24Ru	CI I
Dp8p. dpe	0072	1S0	uS	S	2	14R61	CI I
Dp8p. dpe	0u72	64	0u	6	0S	1SR8	CI I
DqqCC.	2u71	1- 6 4a-	1- a404a6	1- a2u01-	1- a 1u04	SR6	CI I
Dqqvpl	1S071	2 60	2uS	2u10	2u64	- R1	CI I
Dqqvpl	1S 71	26- 4	2610	202a	26a	2R1	CI I
DOndpe	2- 72	0 2a0	0 - aS	0611a	0u24S	2R a	CI I
DiIC. idpe	u671	2aS016	2a1062	2a1 10	2a146a	SR26	CI I
DiIC. idpe	uu71	226S4 1	22 a000	22 - 41S	22u- 226	SRu6	CI I
Db8bI	- 471	2 4 20	2 026-	2 - 2S	2 a1- -	SR6	CI I
cpIr dpe	1a 71	6ua00	1SS2 14S	00u- u6	2a- 6u	1R 2	CI I
cpIr dpe	1a 72	4S4u1- -	4S1- 6 u	4S6006	4S4- 2SS	SR6u	CI I
cGw8pe	2S- 71	- a42	- aS1	- 4S	- 4u4	1R 6	CI I
cGw8pe	2Sa71	Sa-	u - 0	u64a	uu0u	2R 0	CI I
cq	11u71	46S	4026	4aS1	4612	2R44	CI I
cqiw. dpe	4071	44 1-	46S 1	4a- 4S	4a44u	1R 1	CI I
5 Iw. dpe	2- u71	a64S	aa- 46	aa- 1-	aa6u	1R12	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwOICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	T wiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	a172	64a14	6a- 12	6- - S	644Sa	1RaS	Qt l
Yiiplr dpe	10271	u0	- 0	62S	u4u	2RS2	Qt l
Yiiplr dpe	10272	a22-	46S6	46a6	4u2	0R1S	Qt l
Yiiplr dpe	10671	066	0044	0S 4	0aS2	4R04	Qt l
Yiiplr dpe	10672	142Su	14141	144uS	14206	1R26	Qt l
Yiildpe	u 71	126uau14	12 ua61S	1- 24SuS2	12 0S042	2R14	Qt l
Yiildpe	u 72	12 26u4	1- u62uS	1- S- 20-	1- 20412	- Ru6	Qt l
Zq O	6672	4a 2u	4a00S	4a2- a	4a644	SRuS	Qt l
ZdqOC. dpe	S71	1a2a	1020u	16600	164S4	6R 2	Qt l
ZdqOC. dpe	171	- 210	- 6u4	- a42	- 4u1	6Ruu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	60S- - y	601806	6616h2	660h68	SU82	ql s
c n&AmonE	12171	6y68	606h	6- h-	6y00	2U8y	ql s
c rsenAq	0y72	y62S	yy8-	y614	y6Sy	SUJy	ql s
BarAum	1- y71	y8h04y	yhyy1-	yh841S	yh4yy6	SU04	ql s
BarAum	1- 071	1SySy22	1S4h140	1Sy- 004	1Sy1148	SU2-	ql s
BerEllAum	h71	2hS6	28yS	200h	284y	2U2y	ql s
BAsmu&G	2Sh71	0S84680	01y4y- h	68y2001	0S- S66y	2U2y	ql s
BAsmu&G	2Sh72	- 2hh640	- 206hSS	- 2- 64h2	- 201S1-	SUh8	ql s
BromAne	8171	6hh4	0- y2	8S61	046h	0U20	ql s
RaOmAum	1S871	4y4	- - -	- 0h	- 8h	1yU6h	ql s
RaOmAum	1S671	4484	4- S1	4484	442-	2UJ h	ql s
RaOmAum	11171	42y2	4668	4yyy	44h2	4U0h	ql s
RalqAum	4- 71	8S6S- -	82yh21	821yh0	8108yS	1U28	ql s
RalqAum	4471	1- 8SS2h2	14S- yS68	1- 8- yh86	1- 8hS44h	SUh1	ql s
Rarbon	1271	0S868y2	04y- 2h-	0y- 0h- S	0- yh- y8	- U26	ql s
Rarbon	1272	hS8- h	hSy- 0	hS- 8y	hSy80	SU2y	ql s
RGlorAne	- y71	18S111h0	21h04- S0	241- 824-	21- 04y82	14Uy4	ql s
RGlorAne	- y72	18y4h4	1h1y0-	1hy0hy	1hShy4	2U01	ql s
RGromAum	y272	4068h	48Sy4	466- 2	404y8	1Uy6	ql s
Robal&	yh72	- h0hh	4S- h4	4SS1S	4SS60	SU0y	ql s
RolI er	6- 72	1y004h	1y8S1y	1y4- 1h	1y66hy	1UJ2	ql s
t EsI rosAum	1y671	648- 4	6y60S	64- 64	64hy6	1US2	ql s
t EsI rosAum	1y672	26h40	26h11	26S6h	26642	1U86	ql s
. rbAum	16471	yS1S-	y1861	y1S4h	y1SS4	1U02	ql s
. rbAum	16472	2S06-	2S4S2	2SS8y	2S410	1U66	ql s
HaOolAnAum	16S71	y6yh6	y6h8h	y6S6h	y6yy1	SU82	ql s
HaOolAnAum	16S72	266- 0	20- 41	2641-	260h0	1U81	ql s
9 olmAum	16y71	1S1S41hy	hhh1- 20	h82- h0h	hh0- 160	1U41	ql s
9 olmAum	16y72	42y8y18	42422S8	41- 0y2h	42120y2	1Uy6	ql s
DnOAum	11y71	0268101	01y8280	0116S42	018S8- 4	1USh	ql s
DnOAum	11y72	hy44hy	h4- h8S	h466- 6	h48- 0S	SUy8	ql s
Don	y472	24- - 1hS	24066y1	242h006	2446y- h	1US0	ql s
Don	y672	44S2h112	4- y4- - 88	4- 4840h-	4- 68y064	SU68	ql s
Don	y072	1S4yS4h	1S4yh1h	1S4h8S1	1S46h2-	SU24	ql s
KrEl &on	8- 71	- - y	- yS	2hh	- 28	8US-	ql s
LeaO	2S671	22y2066	221yS- -	21hhS68	222228h	1U24	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	180yh21	1824- 1-	10h2h06	18- 1S0S	2U2h	ql s
LeaO	2S871	80S02- 8	86- - h10	8yS48h-	861y- 4h	1U1h	ql s
LA&GAum	671	2y168y2	2y0y41y	2y4hSS8	2y40Sh1	1U1y	ql s
5 agnesAum	2472	11- 068S	114- 1- 0	11y6- - 4	114y010	SU34	ql s
5 anganese	yy72	h46048	hyyhS0	h44- 86	h4hS14	SU64	ql s
5 olEbOenum	h471	1606h	10hhy	1826-	10606	4Uy1	ql s
5 olEbOenum	hy71	0y6h	0h86	0- h4	06yS	- Uh8	ql s
5 olEbOenum	h671	11S- 8	1Sh1-	h6y4	1Sy- y	0U20	ql s
5 olEbOenum	h071	48Sh	484-	4hyh	480S	1U62	ql s
5 olEbOenum	h871	12yy6	12- h8	12y48	12ySS	SU01	ql s
NeoOEmAum	1yS71	1S6446	1Sh42h	1S8126	1S8SSS	1U-8	ql s
NeoOEmAum	1yS72	- 220h	- 261S	- 2h- S	- 26S6	1USS	ql s
NAqkel	6S72	22- S4	221h1	22444	22- 1-	SUy0	ql s
PGosI Gorus	- 172	110h0	11040	11- Sy	11616	2U-	ql s
Po&assAum	- h72	6h6- 8y	6h8040	0SyS16	0SSS4h	SU64	ql s
CGoOAum	1S- 71	0S2661S	02282- -	0S26182	0Sh- 60y	1U64	ql s
CGoOAum	1S- 72	- 210681	- 166040	- 102- 1-	- 18yy81	SU38	ql s
pqanOAum	4y71	468hyy8	4yyh- 02	46h- yy8	46404h6	1U64	ql s
pqanOAum	4y72	14- - h1	14- - S0	141S0y	142yh1	SUh2	ql s
pelenAum	8271	1- 2	h1	160	1- S	2hU20	ql s
pelenAum	0072	h-	h0	110	1S2	12U-y	ql s
pelenAum	0872	1SS	81	h4	h2	1SUyh	ql s
pAAqon	2871	144188y4	14484214	14y0- - 08	144h214h	SUy4	ql s
pAver	1S071	0686	0000	0844	006h	1USS2	ql s
pAver	1Sh71	6h6S	021h	686h	0S16	2Uyh	ql s
poOAum	2- 72	602h0	6y04h	641h1	6y046	2U-6	ql s
p&on&Aum	8671	yh112-	yh8222	yh- 2S4	yh418-	SU61	ql s
p&on&Aum	8871	y4S4h11	y- y6248	y264426	y- 41862	1U-4	ql s
pulfur	- 471	- 418yy	- 462h2	- 42112	- 4- 42S	SU0-	ql s
i erbAum	1yh71	1S24y- 6h	1S224yy-	hh- 2S00	1S1- 4SSS	1U0-	ql s
i erbAum	1yh72	4Sy428-	4Shh8yS	- h68- 14	4S4S816	1U6y	ql s
i GallAum	2S- 71	- S- 4	200y	20yS	28y-	yUyS	ql s
i GallAum	2Sy71	6468	688y	6hS2	60y2	- U64	ql s
i An	11871	- 0y08	- 0S- 4	- 6hS1	- 0101	SUh6	ql s
i A&anAum	4071	1yh- 02	16421-	162024	1621S-	1Uy-	ql s
MranAum	2- 871	y1S- 6	ySh- 6	y1- 8S	y1110	SU46	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	68h28	6844h	68h2y	68068	SU4S	ql s
Y&erbAum	10271	1y4yh	1yS84	1y- Sh	1y284	1U24	ql s
Y&erbAum	10272	0y0y	0- - y	062y	0y12	2US6	ql s
Y&erbAum	10671	11S88	11y- S	1S06-	11120	- U46	ql s
Y&erbAum	10672	16- Sy	161- 2	1y1y-	1y86-	- Uh1	ql s
Y&&Aum	8h71	1- yhh- 6-	1- 46h62h	1- 4S- yh4	1- 4hS862	SU04	ql s
Y&&Aum	8h72	14SyS11	1- 2- - 6y	1- 164- 1	1- 4826h	- U6y	ql s
ZAnq	6672	1616h1	1yh8S8	1yhy1y	16S- - 8	SU04	ql s
ZAqonAum	hS71	- - 00y	- 6166	- y- 80	- y1Sh	- U40	ql s
ZAqonAum	h171	82y-	81y-	006h	8Sy8	- U10	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	hh- 02h	h48y6y	h42424	h48- 0-	1US-	ql s
c n&AmonE	12171	40h1	46S1	4y68	400-	- U36	ql s
c rsenAq	0h72	hS4h	hS4y	4y8y	hS28	SU60	ql s
BarAum	1- h71	4yyh44	4y202-	4yS4y6	4y42h4	SUyh	ql s
BarAum	1- 071	8hy81y	804422	8h- y1y	86202S	1U22	ql s
BerElAum	y71	2- 8h	2462	24y6	2448	2U-	ql s
BAsmu&G	2Sy71	6084y- 1	60h0Syy	0SS8006	68hS26y	2US1	ql s
BAsmu&G	2Sy72	- 204S62	- 2- 88y6	- 26000-	- 26S244	SUh8	ql s
BromAne	8171	081y	0844	81S-	0y22	1Uy8	ql s
RaOmAum	1S871	260	20h	20h	202	1U00	ql s
RaOmAum	1S671	4- S1	41hy	46hy	4- 0-	hU8y	ql s
RaOmAum	11171	- y- 6	- y86	414y	4S24	2U00	ql s
RalqAum	4- 71	- - 48yy	- - - - Sy	- - 4S64	- - 4Sy1	SU24	ql s
RalqAum	4471	h02S102	h606S46	h60- 46h	h68y8yh	SU46	ql s
Rarbon	1271	- 8y0- 28	- y- yyS-	4S86y46	- y04026	2UhS	ql s
Rarbon	1272	hS68S	481- 8	48- y0	4yS02	2U8h	ql s
RGlorAne	- h71	2S6SS11h	24h116- 6	264- 1821	2- 8408h0	12U46	ql s
RGlorAne	- h72	1y888h	2Sh24S	2S8S- S	2S4Sh2	2U S	ql s
RGromAum	h272	- Syh4	- 12- 4	- S22y	- S8Sh	1U68	ql s
Robal&	hy72	- yh1h	- yh4h	- y44h	- yhS1	SU1-	ql s
RoI I er	6- 72	12101S	11y11h	11yy18	12S240	1U1S	ql s
t EsI rosAum	1h671	h8486	h64S-	h0- 4y	h041-	1U82	ql s
t EsI rosAum	1h672	24- 22	2- 2yS	2206S	2- 4h0	- Uy	ql s
. rbAum	16471	40226	44606	4h61-	4h8- 8	2U81	ql s
. rbAum	16472	18h06	1826y	100Sh	18184	2U4-	ql s
HaOolAnAum	16S71	hS6Sh	h1124	h1S81	hSy- 0	SUh0	ql s
HaOolAnAum	16S72	2- 08h	2416y	2- 8S1	2- y18	SUy1	ql s
9 olmAum	16h71	y41y46-	y612S26	y8h248h	y620yy1	2U2h	ql s
9 olmAum	16h72	41yS- 00	42S6244	4142- 14	410y64h	SU8S	ql s
DnOAum	11h71	6y0S2yy	0S- 128S	0S46- 8y	0S1hy8y	SUh0	ql s
DnOAum	11h72	yh6482	yh11S4	y- hh8S	y40022	1U1h	ql s
Don	h472	2S6S- 8h	2Sh1- 6S	2S44hS8	2Sh2S8h	SUy	ql s
Don	h672	- 00- 2SS2	- 6828- 2-	- 6h0S6- 8	- 0S4- 6hh	1U6h	ql s
Don	h072	88S4y8	88- 8h6	86688S	800S08	1US2	ql s
KrEl &on	8- 71	- S6	- 42	- S1	- 10	0U11	ql s
LeaO	2S671	1hS4206	160y16h	16y- 06y	162h0- 0	6U4y	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	12611h-	120h8S2	1261811	12662hh	SU6h	ql s
LeaO	2S871	6- 26641	64h- 2Sy	661- 68S	6464h1S	2U2-	ql s
LA&GAum	671	2h24- h4	248226h	2h1- h6h	2hS6028	SU80	ql s
5 agnesAum	2472	h8- y8y	h0y11h	h6048h	h0686-	1U40	ql s
5 anganese	hh72	8Sy8yS	8SS402	0y26- 8	8S1SSS	1US8	ql s
5 olEbOenum	y471	1h826	164S2	16S6S	16Sy6	1U8S	ql s
5 olEbOenum	yh71	hy1S	61y-	hy18	6SS0	2U6y	ql s
5 olEbOenum	y671	86S-	8hh-	880S	860h	1Uy6	ql s
5 olEbOenum	y071	- 842	- 810	- 0y2	- 810	SU66	ql s
5 olEbOenum	y871	1S401	y8yh	8y2S	y062	8US-	ql s
NeoOEmAum	1hS71	y242-	y- 684	yh- - S	y- 812	1Uh	ql s
NeoOEmAum	1hS72	284hS	28yy8	2001y	28- 8y	2U26	ql s
NAqkel	6S72	1yy81	2S4- 8	2SSh1	2S1h0	1U22	ql s
PGosI Gorus	- 172	8y- 6	8h44	yS0S	88hS	- USy	ql s
Po&assAum	- y72	hSh024	hS6- 8S	4yyyh6	hS4S2S	SU0S	ql s
CGoOAum	1S- 71	666y61S	0S42S48	0S4S- - 0	6y10- - 2	- U1S	ql s
CGoOAum	1S- 72	- 21S8- 0	- 2S28- 8	- 2S0144	- 2S6y4S	SU12	ql s
pqanOAum	4h71	4- - SyS1	4hh4811	462S2y0	4hS2SS-	- Uy0	ql s
pqanOAum	4h72	142- 14	1428S1	14- h00	1428y0	SU4h	ql s
pelenAum	8271	11y	11S	1hh	128	18U6h	ql s
pelenAum	0072	11S	1- -	6-	1S2	- 4U80	ql s
pelenAum	0872	82	81	04	0y	hUh2	ql s
pAAqon	2871	14S0S08-	14264041	14- hy26y	142- 1hy8	1US-	ql s
pAver	1S071	h2Sy	h4S1	h0h1	h4h4	hUS4	ql s
pAver	1Sy71	h468	h2y-	h468	h41S	1U80	ql s
poOAum	2- 72	hh4S6	hh48y	hh1y0	hh- 64	SU20	ql s
p&ona&um	8671	20h8S1	2008h2	20- 286	20h646	SU8-	ql s
p&ona&um	8871	2h88h0y	24y1416	2h4- h40	2h41181	1Uy1	ql s
pulfur	- 471	2y0S24	2y- Sy6	28yh- 6	2y- 21y	1U28	ql s
i erbAum	1hy71	yhSh- 40	1SS66h8-	1SSyh108	y88yS- 6	- Uy6	ql s
i erbAum	1hy72	4116h66	4144h22	4S6- 22h	41S81S4	1US1	ql s
i GallAum	2S- 71	22y2	2110	2h42	2- 10	yU22	ql s
i GallAum	2Sh71	h41S	h268	h- y-	h- h0	1U4h	ql s
i An	11871	- 0S60	- 82y6	- 0y86	- 008-	1U6y	ql s
i A&anAum	4071	110826	11y421	12Syy1	11y41-	1Uy-	ql s
MranAum	2- 871	h1hy0	4y2S4	h1- Sh	hS0S2	2Uh0	ql s

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LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	6260-	618y-	6- Syh	62hh4	SUy0	ql s
Y&erbAum	10271	1- 604	1- 816	1- 4y1	1- 66S	1U1y	ql s
Y&erbAum	10272	6624	642y	6S6-	6- 02	4U40	ql s
Y&erbAum	10671	1S288	1SS12	1S2S4	1S168	1U-y	ql s
Y&erbAum	10672	1hSy8	1h- 81	1461y	1hS- -	2Uh6	ql s
Y&&Aum	8y71	1- S2- hh-	1- 204486	1- 2- 22SS	1- 106046	1US2	ql s
Y&&Aum	8y72	1- 881yS	1- 141hS	1- 2- h2y	1- 41yh6	- USS	ql s
ZAnq	6672	1S0h20	1Sh466	1Sh4y-	1S6162	1U11	ql s
ZAqonAum	yS71	- 4hy4	- hySh	- 4800	- h12h	1Uy6	ql s
ZAqonAum	y171	0061	8S08	8hyh	8144	hU10	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 R CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMR

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb cOcmb	2072	J- N221	J- . 0. N	J4- - 12	J4S444	SR4N	dDw
qCTb nCE	12171	NS0N	N244	NS1.	N114	1R44	dDw
qpwr Ccl	0J72	. 22-	. 101	. S6-	. 1J2	SRN	dDw
Bspcmb	1- J71	J4JS06	J601J-	J02611	J6161-	2R6S	dDw
Bspcmb	1- 071	. 02111	1S2JS. N	1SS0- N1	1SS1J- S	2R6.	dDw
Br pEPmb	. 71	2. 06	- S. 1	- 126	- S6J	2R16	dDw
Bcwb mTG	2S. 71	0J. S1JS	022SS14	6. 641JJ	02JN1S6	4R 4	dDw
Bcwb mTG	2S. 72	- 26N- 6J	- 240J1S	- 2SNN- 6	- 241J01	SR -	dDw
Bpmb cOr	N171	6J6S	6J20	6N. 4	666S	- RSJ	dDw
9 sob cmb	1SN71	410	42.	42J	424	1R1S	dDw
9 sob cmb	1S671	4. N4	4JS1	4NS1	4062	JR1-	dDw
9 sob cmb	11171	- 4N2	- N2J	- 00.	- 6. J	JRS4	dDw
9 sPlcmb	4- 71	01S. 1-	0- . SN0	04S. - 0	0- S- 12	2R S	dDw
9 sPlcmb	4471	11NJ01- N	12- 0- 16.	12016446	12- 1JJN4	- R1	dDw
9 spenC	1271	4- 24NN2	444J1NS	4404SN1	4414014	1R0.	dDw
9 spenC	1272	JJ201	J6. 20	J4. 0N	JJ026	1RN	dDw
9 GPmpcOr	- J71	2S6N. S4J	2400J- S0	2602- - J-	24S62J6N	12RNS	dDw
9 GPmpcOr	- J72	1. . 0- N	2S26- .	2S0JN1	2S- - 1.	1R J	dDw
9 Gpmb cmb	J272	41SS.	4S6N4	41S- 2	4S. SN	SR4N	dDw
9 nesFT	J. 72	- J- S4	- J204	- 6460	- J6N1	1R 1	dDw
9 nDDr p	6- 72	211. 10	2S. 4. N	2SN4. .	2S. . 01	SRN4	dDw
&EwDpnwcmb	1J671	0JJ- .	NSSN2	0. N4N	0N4. S	- R26	dDw
&EwDpnwcmb	1J672	- 246-	- 2. 10	- 1. 12	- 24- 1	1R1J	dDw
Upecmb	16471	JJ. NJ	JN0. 0	6S1N0	JN- 2-	- R60	dDw
Upecmb	16472	2- - 61	22. N-	2- - 24	2- 22-	SR S	dDw
HsonRCcmb	16S71	6JSS1	6NSJN	60446	66N- J	2R42	dDw
HsonRCcmb	16S72	- 166N	- 1JN1	- 1621	- 162-	SR14	dDw
h nPb cmb	16J71	1S411- N1	1SSS140J	. N42266	1SSNJS41	2R 1	dDw
h nPb cmb	16J72	424461S	4SNJ44S	4140- 0J	41J. 141	1R -	dDw
tCocmb	11J71	0JN0161	02S60N4	0S- 6- 21	02060JJ	- RNN	dDw
tCocmb	11J72	. 4- 061	. 26NS0	. - 1NS6	. - 412J	SR -	dDw
tpnC	J472	224N4. 4	2201J4J	22J. J2-	22J. NJ4	SR1	dDw
tpnC	J672	41- 64SN4	41SJS4. -	- . . 21. 61	4S00NN46	1RN6	dDw
tpnC	J072	. 01660	. 0. N10	. 6111N	. 0SN60	SR 0	dDw
KpEDTnC	N- 71	- 10	- 26	- J6	- - -	6R1S	dDw
Lr so	2S671	1214- - -	1244NN0	1200116	124J44J	2R12	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Cr Tusb r:	8 N
9 R CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpro:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMR

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S071	1S1JN11	1S46S. 4	1S624- 0	1S41440	2R20	dDw
Lr so	2SN71	JS0S226	J2S0N14	J- J- S. 0	J21S- 0.	2R01	dDw
LdTGmb	671	20S1J06	24JN6- -	2JS. - 4S	2JJ6J16	JRS1	dDw
y sgCr wcmb	2472	1J41S24	1J- 1014	1JS2N. 6	1J2J211	1R S	dDw
y sCgsCr wr	JJ72	1S- S4SS	1S16460	1S100S2	1S21J2-	SR06	dDw
y nPEeor Cmb	. 471	244- S	26JN4	26026	2J. 14	4R 6	dDw
y nPEeor Cmb	. J71	11014	12S40	11. 22	11N. 4	1R42	dDw
y nPEeor Cmb	. 671	1JS. 2	162NJ	16SJ1	1JNS.	4RSS	dDw
y nPEeor Cmb	. 071	6JNJ	0- 00	0J61	0104	0R2-	dDw
y nPEeor Cmb	. N71	1NS2.	1. 1. 0	1. J14	1N. 1-	4R14	dDw
u r noEb cmb	1JS71	12. 0J6	1- 0. 6-	1- 6S4.	1- 4JN.	- R1.	dDw
u r noEb cmb	1JS72	4SJ1N	- . . - -	4SJ4N	4S- - -	SRN6	dDw
u cdkr P	6S72	2- 4- 6	2- 20-	2- J06	2- 42N	SR6J	dDw
8 GhwDGhpmw	- 172	644-	61- J	J606	6SNJ	6R 4	dDw
8 nTswwcmb	- . 72	- J- 6. .	- 41N62	- 4441S	- 466J0	1RNS	dDw
F Ghocmb	1S- 71	0406. . -	0S60- NS	6. 0. - NN	0104JN0	- R0S	dDw
F Ghocmb	1S- 72	- 10S00-	- S6S. 4-	- 1N1N0S	- 1- 0N62	2R1-	dDw
I dsCocmb	4J71	4. N22J2	4J2- . S0	4640021	4010. 6S	JRS-	dDw
I dsCocmb	4J72	141. 4S	1- . 144	1- . 6- N	14S241	1RS6	dDw
I r P Cmb	N271	21J	10J	1NJ	1. 2	1SRN6	dDw
I r P Cmb	0072	140	110	140	1- 0	12R60	dDw
I r P Cmb	0N72	12J	1SJ	11.	116	NRN2	dDw
I dRdnC	2N71	124N4. 6J	1- 11024.	12. - 24. N	12N44. S4	2R1-	dDw
I dPr p	1S071	0620	NJJ-	N22N	N1- 6	JR00	dDw
I dPr p	1S. 71	0. 44	N- S-	N11.	N122	2R21	dDw
I nocmb	2- 72	11040.	110. N-	110NN2	1100N1	SR2-	dDw
I TpnCTcmb	N671	- . 206-	41212J	4112. 2	4SJ- . -	2R0S	dDw
I TpnCTcmb	NN71	- J- 4J66	- 66N2. 6	- 06. 2N0	- 6J0- N-	- R22	dDw
I mPmp	- 471	- S0JN1	- SN- NN	- S0. 0-	- S0. N1	SR1-	dDw
Ar pecmb	1J. 71	1SN. SSNN	1S1. - J6J	1SS6. 260	1S- N4- S0	4R26	dDw
Ar pecmb	1J. 72	4S62S. 4	41SSS- 2	4S220JS	4S6162J	SR J	dDw
AGsRmb	2S- 71	22J.	24. 2	26N4	240N	NR1.	dDw
AGsRmb	2SJ71	6SS2	6- 4-	62. -	621-	2R 0	dDw
AdC	11N71	2044J	2. 21J	2NN4N	2NJS2	- R2N	dDw
AdSCmb	4071	16N2N-	101101	1042S2	10121.	1R0-	dDw
5 psCmb	2- N71	NS60-	N4JN2	NNJ- -	N4J. 6	4R6J	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 Rr CTI sb DP t&:	y h SMJS	&dPnTcnC MsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP u sb r:	SN. qF UMRo

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	J172	6J120	6J4S2	64. - S	6J1J-	SR6	dDw
YTTr pe omb	10271	16- NJ	1024J	10- S-	16. 0N	- RS-	dDw
YTTr pe omb	10272	N10J	N1- S	0NJ2	NSJ-	2R10	dDw
YTTr pe omb	10671	11N02	12- S6	11J02	11. 10	- R1S	dDw
YTTr pe omb	10672	16101	16S21	162JJ	1614.	SR0-	dDw
YTTpomb	N. 71	14S62J61	1- NJ- JJ2	1- JSJN2.	1- NS0- 14	2RS4	dDw
YTTpomb	N. 72	14SS422	12. 6SN0	1- S0S12	1- - 4JS0	4R S	dDw
ZdCd	6672	14114J	1- . 1. 0	1- N416	1- . JN6	1RS1	dDw
ZqpdnComb	. S71	JS442	J26SS	J1. 02	J1602	2R1J	dDw
ZqpdnComb	. 171	111. 6	122- 1	12S64	11N- S	4R3.	dDw

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Inst Id :P8

LB umb er S:	LB1264O3	5 I r SstoS:	aswl sP
Lse psb I P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb I P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
APmb inimb	23O2	- 6- 4N4	- 646- O	- 611JN	- 6- 1O4	O.4N	cl w
Antib on9	12101	NyN	11OO	N42	J- -	1y.4J	cl w
ASvr nic	3yO2	14- J	1- 4J	1- yJ	1- N-	- .y3	cl w
BsSmb	1- y01	- - - J3y	- - 3N3O	- - - 622	- - y1y6	O.3O	cl w
BsSmb	1- 301	yJyN42	yJNNO6	yJ6y- -	yJ3O6O	O.26	cl w
Br SPPmb	J01	- - 21	- y11	- 4NJ	- 44O	- .O2	cl w
Biwb mth	2OJ01	6yN3y11	63y4NJ1	6J241ON	63yyyO-	2.4J	cl w
Biwb mth	2OJO2	- 1NN4- y	- 2O4N1y	- 142364	- 13N631	1.O1	cl w
BSob inr	N101	6- J-	6yy2	636O	6y6N	2.NO	cl w
Csdb imb	1ON01	12y	J2	1OO	1O6	16.4-	cl w
Csdb imb	1O601	44N4	4O- 4	42N4	4263	y.2J	cl w
Csdb imb	11101	1444	1- 3-	1yON	1442	4.31	cl w
CsPimb	4- 01	1O31Oy	1OyJJ6	1O6N6y	1O66y6	O.yy	cl w
CsPimb	4401	1N4yN4J	1N2J- 21	1JO64NJ	1N6Oyy-	2.1N	cl w
CsSeon	1201	- 2- 636N	- - - 6314	- 26yOO2	- 23J4J4	1.y3	cl w
CsSeon	12O2	4O1Oy	- J412	- J4J6	- J631	O.Jy	cl w
ChPSnr	- y01	144416N2	1yNN2Ny6	16y6N6yO	1y6- 1O6-	6.Jy	cl w
ChPSnr	- yO2	11N3OO	12O1NO	11N313	11J1JJ	O.31	cl w
ChSob imb	y2O2	12O2J	1221y	11NN2	12O42	1.- J	cl w
CoesP	yJO2	13413	13- 61	13- 34	13- N4	O.13	cl w
Col I r S	6- O2	- 1y- N	- 1- 4y	- 1O63	- 1- 13	O.36	cl w
X9wl Sbwimb	1y601	1N12y4	1N4O14	1NO12O	1N13J6	1.1O	cl w
X9wl Sbwimb	1y6O2	346J3	36- 11	3- yJN	34N6J	1.N2	cl w
ESeimb	16401	14N432	14J423	1y221O	1yOO- 6	1.2J	cl w
ESeimb	164O2	6O33y	61O4J	6O- N3	6O3- 3	O.yy	cl w
GsdoPhimb	16O01	14NJO1	1yy614	1y- 3NJ	1y236N	2.23	cl w
GsdoPhimb	16O02	32- yN	31- 6-	31- 66	316J6	O.NO	cl w
HoPb imb	16y01	J2N3J1O	JyJ32N4	JJ6432O	J6166- N	- .y2	cl w
HoPb imb	16yO2	421NN3N	426O64-	4O3- 11J	41N421-	2.- y	cl w
Dndimb	11y01	63NJ2- N	6N2332N	3OyN4- -	6NJ1NOO	2.11	cl w
Dndimb	11yO2	J4N- J4	J4J16O	J- 6N2-	J443J2	O.3-	cl w
DSbon	y4O2	1N363y6	1J- 2424	1JO62- O	1JOy1- 3	1.46	cl w
DSbon	y6O2	- - 263326	- 4- 6J44N	- - 3- yy3O	- - 3JOJ1y	1.64	cl w
DSbon	y3O2	3JN- 22	NOO62O	NOJN26	NO2J2-	O.36	cl w
KS9l ton	N- 01	4yy	4- O	4y3	443	- .4O	cl w
Lr sd	2O601	2O- JyO	2O62J3	2Oy16N	2Oy1- J	O.y3	cl w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	C8 p 1	C8 p 2	C8 p -	C8 p Mr sn	C8 p RpX	Unitw
Lr sd	2O301	16JN1N	13O1J4	13OO- 3	13OO16	O.11	cl w
Lr sd	2ON01	N16N22	N1J3NJ	N1N46J	N1N- 6O	O.1N	cl w
Lithimb	601	24J- - 14	24N4164	2y4NOJO	2yONy22	1.- N	cl w
Msgnr wimb	24O2	- 11N2N	- OJ1J2	- O6- y-	- OJ124	O.NJ	cl w
Msngsnr wr	yyO2	1136- 1O	11Ny3NJ	11664- 6	113613J	O.N2	cl w
MoP9edr nmb	J401	62- y	3OJ4	64O2	6y33	6.J2	cl w
MoP9edr nmb	Jy01	4- O1	4y26	44y1	4426	2.yJ	cl w
MoP9edr nmb	J601	y326	y6O1	y6O1	y64-	1.2N	cl w
MoP9edr nmb	J301	2JN4	26N4	- 1OJ	2J2y	3.43	cl w
MoP9edr nmb	JN01	31J4	311O	3O6O	3121	O.Jy	cl w
u r od9b imb	1yO01	- 1NOy4	- 2N- - O	- 2JJ3-	- 2y4y2	1.JN	cl w
u r od9b imb	1yO02	J3- - 3	JNOyO	J3363	J331N	O.- 3	cl w
u ickr P	6O02	N2J2	N- - -	N- y6	N- 23	O.- N	cl w
8 howl hoSmw	- 102	1313	1yJ2	1y13	16ON	6.2N	cl w
8 otswwimb	- JO2	- 4y242	- yO1N1	- - JyO2	- 44J3y	1.yy	cl w
Rhodimb	1O- 01	6N13O11	6N6JNJN	6N1262J	6N- - 13J	O.43	cl w
Rhodimb	1O- O2	- 22J32-	- 216NyN	- 142O6J	- 1J6216	1.4N	cl w
pcsndimb	4y01	42- 34N6	4- N- y4y	4y13J14	4- 3J64N	- .2O	cl w
pcsndimb	4yO2	142y2J	14- O14	1- JJ61	141N- y	1.16	cl w
pr PnimB	N201	13y	22J	1N3	1J3	14.23	cl w
pr PnimB	33O2	- yO	- 13	- 43	- - N	y.44	cl w
pr PnimB	3NO2	211	21O	22O	214	2.yN	cl w
piPcon	2N01	32J1O4-	312yNNy	312- J63	31NO2JN	1.- 4	cl w
piPr S	1O301	11ON	1- 13	11- -	11N6	J.yJ	cl w
piPr S	1OJ01	113y	1113	1OOO	1OJ3	N.12	cl w
podimb	2- O2	2N4y-	233- y	2NO23	2NO32	1.2J	cl w
ptSontimb	N601	NO44J	N4- 43	N12- 3	N2O11	2.y1	cl w
ptSontimb	NN01	3OONO4	31113-	3OON2J	3O426J	O.Ny	cl w
pmPmS	- 401	233O43	231463	231111	23- 2ON	1.22	cl w
Tr Seimb	1yJ01	J- yJ2JO	JNyO1JO	JNJ4y24	J3O1- - y	- .O6	cl w
Tr Seimb	1yJO2	4O3O16O	4O4- yy-	4O1JyJ-	4O444- y	O.6-	cl w
ThsPPmb	2O- 01	1JyJ	2O42	1342	1J14	N.OJ	cl w
ThsPPmb	2Oy01	4yO1	4y1N	44O1	443-	1.41	cl w
Tin	11N01	N211	Ny3O	Nyy-	N444	2.4O	cl w
Titsnimb	4301	21JO14	22- y3y	222162	221yN4	1.Oy	cl w
USsnimb	2- N01	4J34O	4JJON	yOy- y	yOO61	O.N4	cl w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
Vsnsdimb	y1O2	214OJ	224ON	213- O	21N4J	2.- -	cl w
Yttr Seimb	13201	4y13O	461NJ	461N2	4yN43	1.2N	cl w
Yttr Seimb	13202	21- y6	213Ny	21y2-	21yyy	1.OO	cl w
Yttr Seimb	13601	2JO- -	- O- 61	2J- - -	2Jy3y	2.- y	cl w
Yttr Seimb	13602	241y6	2yJ4N	2yOy3	2yOy4	- .yN	cl w
YttSmb	NJ01	14133y2y	14y623NO	14y12N- 1	14413312	1.4y	cl w
YttSmb	NJ02	1yyJN1N	1y263y2	1y1- N4-	1y- - 431	1.yy	cl w
Zinc	6602	4- NO4	42y- 4	4- J3N	4- 4- J	1.N2	cl w
ZiSconimb	JO01	11246	1O3- N	1ON46	1OJ4-	2.4y	cl w
ZiSconimb	J101	24yO	223y	243y	24OO	4.y4	cl w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
CITeoDSample IX :	MHOF18	XTuDTio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
i lumTiTum	23O2	- n1222	- 89O19	- n6384	- n1OO3	1.91	Aps
i oDTmdoy	1210 1	88-	n29	898	88n	- .3n	Aps
i rseoTA	39O2	149n	1444	1493	1494	O.96	Aps
BarTum	1- 90 1	- 993n2	- 9n686	- 94n92	- 9681O	O.31	Aps
BarTum	1- 30 1	6249- 8	64693n	613138	62n4- 2	2.4-	Aps
BerylTum	n0 1	- 932	- 3- O	- 6n-	- 669	2.29	Aps
BTsmuD0n	2On0 1	3O- 338O	312343O	68481- 8	3OO446-	2.O4	Aps
BTsmuD0n	2OnO2	- 2n468O	2n6O6- 1	26nO1n6	2n818- 6	1O.19	Aps
BrdmTbe	81O1	3O23	3O1O	32- 9	3On1	1.33	Aps
CaqmTum	1O8O1	n2	146	1O4	114	24.nO	Aps
CaqmTum	1O6O1	439n	44- 4	4136	4496	6.96	Aps
CaqmTum	111O1	1962	1912	1934	194n	2.11	Aps
CalATum	4- 0 1	1122O8	11- O62	114On2	11- 121	O.8-	Aps
CalATum	44O1	1nn4449	2O43O18	1n9n641	2OOO- 68	2.2O	Aps
Carbdo	12O1	- - 93938	- - - 8O19	- - n3349	- - 64446	O.n1	Aps
Carbdo	12O2	41- 13	41129	414n-	41- 11	O.49	Aps
ChldrTbe	- 90 1	12911- 29	141- 4O- n	1912- 8n3	1- n2- O83	n.43	Aps
ChldrTbe	- 90 2	11- 4OO	111- 91	11994-	11- 4- 1	1.89	Aps
ChrdmTum	92O2	12662	12- 6n	1- O3n	123O4	2.81	Aps
CdbalD	9nO2	1826n	138- 1	183nn	18- OO	2.69	Aps
Cdpper	6- O2	- OnO3	- O48n	- 1- 88	- On28	1.49	Aps
XysprdsTum	1960 1	186n88	1831- 2	181488	1892O2	1.34	Aps
XysprdsTum	1960 2	39n48	3616-	33292	36494	O.n1	Aps
ErbTum	1640 1	14n9n4	1996- 3	19291O	19298O	1.n8	Aps
ErbTum	1640 2	6O914	9nn81	61n- 4	6O81O	1.66	Aps
GaqdlTbTum	16OO1	198446	198992	19- - 89	1963n4	1.88	Aps
GaqdlTbTum	16OO2	3- 32n	34On9	39O9-	342n2	O.n2	Aps
HdlmTum	1690 1	nn1O943	nnnO968	1OO84O82	nnn9O66	O.83	Aps
HdlmTum	1690 2	4411242	- 8628- 8	- 92O36-	- n- 1614	11.4-	Aps
IoqTum	1190 1	6n9n983	3223n64	3OO1618	3O6- O96	2.O4	Aps
IoqTum	1190 2	n3n- 29	868888	38nOO1	83nO31	1O.83	Aps
Irdo	94O2	2On6- 26	2O62O21	21O884-	2O8nO6-	1.16	Aps
Irdo	96O2	- 6942O3-	- 34On36n	- 82666- -	- 34O6198	2.- 1	Aps
Irdo	93O2	83444-	881n82	8nn- 93	889261	1.44	Aps
KrypD0o	8- 0 1	433	466	441	462	4.O2	Aps
Leaq	2O6O1	21n921	2212O9	21- 2nO	218OO9	1.n1	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
Leaq	2O301	138448	1338n6	1829O8	13n613	1.4O	Aps
Leaq	2O801	831O6O	866- 92	86942-	863612	O.- 9	Aps
LTDTum	601	2999243	2696O- 4	2699143	262214-	2.21	Aps
MagoesTum	24O2	- 21OO4	- 11693	- 183- 1	- 131- 1	1.94	Aps
Maogaoese	99O2	124462-	12- n428	1284O23	1296O26	1.n4	Aps
Mdlybqeoum	n401	6623	66O2	6289	69O4	2.n-	Aps
Mdlybqeoum	n901	9O84	4936	48O1	482O	9.2n	Aps
Mdlybqeoum	n601	9n- 9	9336	9689	93nn	2.18	Aps
Mdlybqeoum	n301	2842	28On	2339	28On	1.1n	Aps
Mdlybqeoum	n801	3944	366n	3911	3939	1.1O	Aps
NedqymTum	19OO1	- 29- On	- 2n693	- 18196	- 24- 34	1.3n	Aps
NedqymTum	19OO2	1OO- 6n	n3336	nn9- O	nn229	1.- -	Aps
NTAkel	6OO2	83- -	831-	839n	83- 9	O.23	Aps
Phdsphdrus	- 1O2	1413	14- -	19O8	149-	- .- 6	Aps
PdDassTum	- nO2	- 2n- 46	- 231OO	- - 9OOn	- - O489	1.2-	Aps
RhdqTum	1O- 01	3119Onn	3241n38	3162933	313- 218	O.8n	Aps
RhdqTum	1O- O2	- - 3O- 39	2n- 493-	26669OO	2nnO48-	11.88	Aps
SAaoqTum	4901	463O239	4391844	49n892n	463- 94n	1.64	Aps
SAaoqTum	49O2	146- - 1	1- 2942	1164- 1	1- 1368	11.- 6	Aps
SeleoTum	8201	2O9	229	21n	216	4.3-	Aps
SeleoTum	33O2	- 1O	2n-	- 1O	- O4	- .16	Aps
SeleoTum	38O2	246	2- 3	248	244	2.4O	Aps
STTAdo	2801	82- 2124	8O926O6	8- 8nn1-	8224881	2.O9	Aps
STver	1O301	12- -	1- 9O	11n2	1298	6.92	Aps
STver	1On01	12OO	12O8	1- 39	1261	3.8-	Aps
SdqTum	2- O2	- 3- 82	- 9n83	- 3n16	- 3On9	2.6n	Aps
SDdoDTum	8601	8n14-	884O9	88- 46	886- 1	O.9O	Aps
SDdoDTum	8801	39n326	362698	36n- - n	36- nO8	O.64	Aps
Sulfur	- 401	268888	269812	261396	269489	1.- 9	Aps
&erbTum	19n01	1O- 99688	1O- 9n49n	n816n13	1O133- 99	- .O3	Aps
&erbTum	19nO2	4221433	- 3nn2O9	- 41n3O8	- 81- 46-	1O.92	Aps
&hallTum	2O- 01	2O13	1n13	1n- 4	1n96	2.34	Aps
&hallTum	2O901	4926	4n- 4	49O1	4694	9.2-	Aps
&TD	11801	12496	1- O- 1	1- O4n	12849	2.6-	Aps
&TaoTum	4301	24O431	24O322	24O636	24O62-	O.O6	Aps
UraoTum	2- 801	9O918	9- 446	9O442	9146n	- .- -	Aps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0lr :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0lr :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
VaoaqTum	910 2	2- O62	22- n8	2- O9n	228- n	1.68	Aps
YDerbTum	1320 1	46- 4n	498n3	432- 9	464n-	1.46	Aps
YDerbTum	1320 2	21889	224- 6	223O-	22- 41	1.83	Aps
YDerbTum	1360 1	- O26n	- O69-	- 16- O	- O891	2.28	Aps
YDerbTum	1360 2	26O69	29O6-	2- 3- -	24n94	4.6n	Aps
YDDTum	8n0 1	143n24- O	19262231	1434n9O-	14n- 43- 9	1.nO	Aps
YDDTum	8n0 2	1938O93	142OO91	12986O4	1418nO4	11.26	Aps
ZTbA	660 2	46O31	46132	46n84	464On	1.O8	Aps
ZTAdoTum	nO0 1	1O9n6	1116-	1111-	1On93	2.83	Aps
ZTAdoTum	n10 1	2984	2484	229n	2442	6.82	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII inI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4407S0	&CPIIbe Cpi:mI e p:J	us
9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdNbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdNd:mI e p:J	S. 2 FUMRo

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI C	9 u DF DT	5 CdqP
Nve qCdpe	2072	426244	420S- -	41sS- -	42- 00S	1R1s	dt P
CIqe nCE	12171	- a42	- 610	- 006	- 64a	- R20	dt P
IPpCqd	0a72	2- s6	2244	2246	22. 2	- Raa	dt P
BI IdNe	1- a71	- a02a.	- a04s.	- a2- - a	- aa6. 4	SRs2	dt P
BI IdNe	1- 071	6- 2a66	6- - a06	6- 101S	6- 261s	SR1a	dt P
BpIENNe	. 71	- 0a-	- 06a	- 00a	- 064	SR S	dt P
BqPe biG	2S. 71	0S6s66S	01. s261	6sS4241	0S2- 021	2Rs6	dt P
BqPe biG	2S. 72	- 2- 24. S	- 2- . S- 4	- 2- S6. 6	- 2- 4S04	SR14	dt P
BIne qCp	s171	aasa	a66s	a. S1	a01s	2Rs0	dt P
9 I oe qNe	1Ss71	- 42	246	- S4	2. 0	16R2a	dt P
9 I oe qNe	1S671	4s4-	4606	42a.	4a. -	6Ra4	dt P
9 I oe qNe	11171	21as	2- as	2Sa.	21. 2	6R 6	dt P
9 I NdNe	4- 71	- . 060-	4S- 0- 6	- . s. 06	4SS12s	SRsS	dt P
9 I NdNe	4471	6s12600	6s66aSa	66. 142a	60. S2S-	1R 2	dt P
9 I Ir nC	1271	- 6621. .	- 0- a06a	- 0. S6- 1	- 02. a- 2	1R0-	dt P
9 I Ir nC	1272	4a61-	46S. s	4441s	4a- 06	1R 1	dt P
9 GNdIqCp	- a71	1. 4s20as	2- 024s6s	2614a1s.	2- 1106Sa	14Ra.	dt P
9 GNdIqCp	- a72	1. a0S.	2Sa46S	2S01. 2	2S20s0	- RSa	dt P
9 GIne qNe	a272	2- 6. -	2- - s.	2- 0sS	2- 621	SRs0	dt P
9 nr I Nd	a. 72	2. S4-	2s21a	2saS.	2sas.	1R40	dt P
9 nt t pI	6- 72	6- aSa	620aa	62. 2.	6- S6-	SR62	dt P
TEPt InPqNe	1a671	s4- as	s661a	s02a2	s6S0a	1R00	dt P
TEPt InPqNe	1a672	- a. 1a	- a- 4S	- 4- S0	- a1s0	2R 1	dt P
UIr qNe	16471	6- S60	642- .	6- s46	6- 010	SR 4	dt P
UIr qNe	16472	2a02a	2a4as	24266	2a14.	- RS.	dt P
HI onNqCqNe	16S71	0- . 0-	064- 6	06- 0s	0aa. 6	1Rs6	dt P
HI onNqCqNe	16S72	- a4. 4	- 4s12	- 42s0	- 4s64	1R04	dt P
h nNe qNe	16a71	1S46Sa2a	1S41- 1a-	. 604- . -	1S1s26. S	4R -	dt P
h nNe qNe	16a72	41S- aSa	410024-	4S. . 1S.	412661.	1RS6	dt P
&CodNe	11a71	02s0. a6	02a6a2-	0S1ss64	01s00s1	2RSa	dt P
&CodNe	11a72	. - a1- a	. 42aa6	. 20S- -	. - 4. Ss	SRs-	dt P
&nC	a472	1ss4s40	1s4s- - 6	1sS6- 4s	1s46a1S	2R1-	dt P
&nC	a672	- 206sS- -	- - a02- - 0	- 2- S226a	- 2ssSs0s	1R a	dt P
&nC	a072	0s0026	0. 6s06	00. s02	0ss1as	1RSs	dt P
KIEt inC	s- 71	- 11	- 02	- S.	- - 1	1SR 1	dt P
LpI o	2S671	a21aas	a44ss6	a2- - 21	a2. . 22	2R4a	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pl:J	LB1264S0	3 t pll inl:J	wl P8 l N
Ll r :Dl e t Nd:&T :J	3 - 4407S0	&CPllbe Cpi:ml e p:J	us
9 NdpCi:Dl e t Nd:&T :J	y h SM2-	TdNiqnC:M dinl:J	1
Tl ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	Tl il MdNd:ml e p:J	S. 2 FUMR0

ul ll e pipl	y l PP	9 u D1	9 u D2	9 u D-	9 u Dy pl C	9 u DF DT	5 CdqP
Lpl o	2S071	4- - 0. 6	44s64S	44S6s2	441S- .	1R3s	dt P
Lpl o	2Ss71	2S6S161	21Ss. 16	2S6- 2a1	2S0044-	1R 1	dt P
LqiGdpe	671	26- - . . .	26- 6- 0s	2aS46- 4	2a. 160S	2R 1	dt P
y l gCpPdpe	2472	0a6S10	044. s2	041- 1-	0404- s	1RS2	dt P
y l Cgl CpPp	aa72	4- 1114	4- 46. .	4241. 0	4- SSS-	1R24	dt P
y nNEr opCbe	. 471	aSs- a	a2s10	a1040	a1sSS	1R.2	dt P
y nNEr opCbe	. a71	46S1	4006	46s4	46s0	1R30	dt P
y nNEr opCbe	. 671	12a14	1- 2. S	12. S6	12. S4	- RS1	dt P
y nNEr opCbe	. 071	2s- 4	2a0a	2. 60	20. 2	0R1-	dt P
y nNEr opCbe	. s71	606.	6. 20	0- 1S	0SS2	- R.s	dt P
mpnoEe dpe	1aS71	1a1- 4a	1a4s- 2	1a- s61	1a- - 46	1R10	dt P
mpnoEe dpe	1aS72	4a. 4a	44. 0s	446. 4	4a2S6	1R4a	dt P
mqdkpN	6S72	1a2. 2	1402s	1a122	1aS40	1R.2	dt P
uGnPt GnlbP	- 172	a46s	a426	a1S.	a- - 4	- R60	dt P
unil PPdpe	- . 72	4SS1aa	- . . a6a	4S4Sa4	4S12as	SR61	dt P
F Gnodpe	1S- 71	0- 2a6- .	02126S0	60. S1. 1	01S. 40.	- R.0	dt P
F Gnodpe	1S- 72	- 16a6sS	- 1. . 12s	- 1000S4	- 1sSs- 0	SRa-	dt P
Ddl Codpe	4a71	4041S- s	40aa06S	441264S	46- 640.	4R1s	dt P
Ddl Codpe	4a72	1422S0	1414s6	14S426	141- 0-	SR6-	dt P
DpNqCdpe	s271	1- 0	124	1s2	14s	2SR00	dt P
DpNqCdpe	0072	1- 0	1- -	11S	120	11R40	dt P
DpNqCdpe	0s72	142	11s	1S4	121	1aR34	dt P
DqNdnC	2s71	12. - 626-	1- 1- S- 41	1- S- 2s10	1- S- - 14S	SR04	dt P
DqNpl	1S071	4- a1	- . S.	- . S1	4Sa-	6R.a	dt P
DqNpl	1S. 71	- as4	4aa1	- 0- 4	- . a6	1- R1a	dt P
Dnodpe	2- 72	4. 1. 2	4s. Ss	4sa- 1	4ss00	SR6s	dt P
DilnCidpe	s671	1s. - 14	1. 62. a	1. 42a1	1. - 2s6	1R36	dt P
DilnCidpe	ss71	1061216	1006as.	10. 4a. a	1000460	SR.4	dt P
DbNbl	- 471	- S1216	- S4. s0	- Sa64-	- S- . 4.	SR0.	dt P
cplr dpe	1a. 71	1Sa4a6. s	1S- . . - aS	. 02S60S	1S221. S6	4R 1	dt P
cplr dpe	1a. 72	4S064SS	4Sss1a-	- . 0sa- -	4S406. a	1R4.	dt P
cGl Ndpe	2S- 71	14Ss	14as	1aSs	14as	- R4-	dt P
cGl Ndpe	2Sa71	- 0S.	- 460	- 606	- 610	- R62	dt P
cqC	11s71	22666	16644	10160	1ss26	10R02	dt P
cqlCdpe	4071	1- a61-	1- 6220	1- 1. - S	1- 4a. S	1R0-	dt P
5 ll Cdpe	2- s71	6a24-	6a. ss	6assS	6a0S4	SR61	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdbI:mI e p:J	S. 2 FUMRo

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl C	9 u DF DT	5 CdqP
VI CI odqe	a172	44212	44SS0	440. S	44- - 6	SR.2	dt P
YiipIr dqe	10271	1s221	10462	10- 12	1066a	2R06	dt P
YiipIr dqe	10272	s214	s4as	sS0a	s24.	2R a	dt P
YiipIr dqe	10671	12. 4S	124- 1	12s6a	1204a	2R16	dt P
YiipIr dqe	10672	166- s	16Ss2	161. .	16- S0	1RsS	dt P
YiiIdqe	s. 71	14S24141	14S6s- - 4	1- 11- ssS	1- 0- a4a2	- R.2	dt P
YiiIdqe	s. 72	142sSSS	1- 22a04	1- S- 6. 0	1- a1424	4R.6	dt P
ZdqCd	6672	1. 2s1a	1. 4S- 1	1. 2s64	1. - 2- 6	SR.6	dt P
ZdqdnCdqe	. S71	12sS6s	1- - 206	1- 26a2	1- 1- - 2	2R10	dt P
ZdqdnCdqe	. 171	2. a66	2. s04	2. 04.	2. 0- S	SRa2	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	12	120	1N6	140	22M06	dDl
q. Tb C. h	121:1	42	-N	0-	-N	2NM0	dDl
qpl r . cl	0-:2	-	S	2	2	1S0MM-	dDl
Bwpcmb	17-:1	-N	142	177	111	41M1	dDl
Bwpcmb	170:1	1 2	0-	1N7	1-S	47M	dDl
Br ph8&mb	:1	77	7N	7	76	M12	dDl
Bdb mTE	2S :1	021 S76	6 S7 00	60-2277	6 -N416	7M12	dDl
Bdb mTE	2S :2	727S 2	27N7SN0	7106 24	2 7S774	16M2S	dDl
BpCb c r	N1:1	76 2	7N-	70S1	70-1	2MS	dDl
Fwob mb	1SN:1	4	N	10	1S	6-M0	dDl
Fwob mb	1S6:1	7N74	720-	2 10	7742	17MM7	dDl
Fwob mb	111:1	4S1	774	2 7	747	16M82	dDl
Fw8lmb	47:1	26S	71	44-	741	20M0S	dDl
Fw8lmb	44:1	7S1S-	7S720	7164-	7S6 7	2M01	dDl
FwpeC.	12:1	22N4162	22616N0	22-4024	2266N-N	SM0N	dDl
FwpeC.	12:2	26 0-	26066	20020	201-6	1MM6	dDl
FE8Qpc r	7-:1	4S 6216	7 1264	7014744	7 S0070	4MM	dDl
FE8Qpc r	7-:2	27-4-	22N7-	2S 04	224-1	-M1	dDl
FEpCb mb	-2:2	1120	1S60	11 S	112N	-M0	dDl
FCew8T	- :2	67	20	-S	40	7 M06	dDl
FCDDr p	67:2	0N7	N6S	N1S	N1N	4M06	dDl
&hl DpCl mb	1-6:1	2-	S	N	11	114MN	dDl
&hl DpCl mb	1-6:2	7	1S	70	10	1S-MM-	dDl
Upemb	164:1	0-	60	N7	0-	11M1	dDl
Upemb	164:2	70	20	77	72	1-MS	dDl
GwoC8c mb	16S:1	110	110	1SN	114	4M2	dDl
GwoC8c mb	16S:2	S	07	100	117	4NM-	dDl
HC8b mb	16-:1	1S2N-6NN	NN- -72	-12N14	N 460N	7M1	dDl
HC8b mb	16-:2	417 22	7S070N0	4S4-7S1	70-2002	1-M02	dDl
t. omb	11-:1	0-0 1SS	0216 0	6 70S-2	02447N7	4M4	dDl
t. omb	11-:2	46-10	6 7707	20N40	N- - 12	16M4N	dDl
tpC.	-4:2	422	7-S	-60	446	24M02	dDl
tpC.	-6:2	7160	7410	0010	4060	-7M-	dDl
tpC.	-0:2	02	1-S	77	1N0	07M7	dDl
KphDTC.	N7:1	2-S	2-6	2-	2- -	1M0	dDl
Lr wo	2S6:1	N61	044	10	N41	1SM46	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	022	22	N2N	N24	12M14	dDl
Lr wo	2SN:1	70N	7-0N	74N	761	4M26	dDl
LcTEcmb	6:1	26S0-N1	26S--1-	2-S4666	2-02-N0	2M2	dDl
9 wg. r l cmb	24:2	1-S	1SS	2N7	10N	-7M71	dDl
9 w. gw. r l r	--:2	N0	1S0	1NS	124	7 M4	dDl
9 C8neor . mb	4:1	1SN	110	1 2	17	77M34	dDl
9 C8neor . mb	-:1	77	77	110	61	0NM04	dDl
9 C8neor . mb	6:1	1-S	2	10-	17	7SM0	dDl
9 C8neor . mb	0:1	N7	77	-S	-6	4-MM7	dDl
9 C8neor . mb	N:1	N7	42	0-	60	77M30	dDl
u r Cohb cmb	1-S:1	77	2S	20	20	24M	dDl
u r Cohb cmb	1-S:2	7	S	47	16	1--M37	dDl
u cdkr 8	6S:2	77	77	N7	-S	-0M04	dDl
3 ECl DECpm	71:2	1SN	1SN	1-S	122	1 M6N	dDl
3 CTwl cmb	7 :2	NN0N	N-76	N 61	N0 2	2M6	dDl
y ECocmb	1S7:1	07607-S	0SS40-7	0SS0 01	01266 1	2M2	dDl
y ECocmb	1S7:2	71-2S N	2426N74	717- -	2 S4 06	14M26	dDl
l dw. ocmb	4-:1	46N 6-	4-7S74	444SN4	4--7021	2M00	dDl
l dw. ocmb	4-:2	14S624	1S1N40	17 162	120211	10M2N	dDl
l r 8 . cmb	N2:1	:14	:1S	:4S	:21	:06M1	dDl
l r 8 . cmb	00:2	S	S	7	1	107M21	dDl
l r 8 . cmb	0N:2	1S	17	1-	17	1 MM0	dDl
l c8dC.	2N:1	101400	1607 0	166241	16N702	1M67	dDl
l c8vr p	1S0:1	210	242	177	1 0	2NM06	dDl
l c8vr p	1S :1	12-	142	177	177	6M2-	dDl
l Cocmb	27:2	162 7	16406	161S	162 7	1M17	dDl
l TpC. Tcmb	N6:1	477	-10	660	-7	21M4	dDl
l TpC. Tcmb	NN:1	1160	1S-S	1--	12-N	21M10	dDl
l m8mp	74:1	24 4S2	2-S-70	2-1171	2-S7-0	SM7-	dDl
Ar pecmb	1- :1	1S7 -126	074 00	66-206	710 7	4M36	dDl
Ar pecmb	1- :2	4SS2-12	2 7674S	7N6-00-	76S1-42	16M11	dDl
AEw8cmb	2S7:1	7-S	1N7	742	2 2	72M2S	dDl
AEw8cmb	2S-:1	6SS	60-	60-	6-S	6M06	dDl
Ac	11N:1	11-S	12SN	1210	11 2	7M8-	dDl
AcTw. cmb	40:1	1 2	1 2	1SN	164	2 M7-	dDl
5 pw. cmb	27N:1	10	-S	10	2N	6 M20	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUMd

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Vw. wocmb	-1:2	S	27	47	22	0M8S	dDl
YTTr pecmb	102:1	42	42	77	7	12M7N	dDl
YTTr pecmb	102:2	77	10	2N	26	72M02	dDl
YTTr pecmb	106:1	1277	1777	1S-N	12SN	11M2	dDl
YTTr pecmb	106:2	1S- 7	0 SN	11102	N 1	10M61	dDl
YTTpcmb	N :1	17-74- -	120N 2N2	12706- 7	12 SS1-0	4M-	dDl
YTTpcmb	N :2	127-6SS	22N S	127-6N4	11717 2	1-M6	dDl
Zc d	66:2	140	117	1 7	1-1	26M	dDl
ZqpdC. cmb	S:1	- 2	-SN	442	-14	14M62	dDl
ZqpdC. cmb	1:1	2	60	12-	4	7SMN	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l T Rdpamle pas	S 4LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14u0	147-	16 -	1-7	uM7	dDP
q. Tde C. h	121J1	10Su6	16600	102S7	16 u	1M62	dDP
qlPp. cd	0-J2	22	27	24u	27	7Mu	dDP
Bl dbe	17-J1	1 1 0	1 2u	1 0-0	1 414	1M4	dDP
Bl dbe	170J1	771u7	7707-	77S 1	77776	1N34	dDP
BplhNbe	J1	27S0	2766	22-1	27Su	2M4	dDP
BcPe bTE	2S J1	6S 4- 6	60u604	66uS0-u	6-2S0S1	-M02	dDP
BcPe bTE	2S J2	71-7664	724021-	7246u2S	721- SS	1M0u	dDP
BlCe c p	u1J1	4SS1	42S1	7 74	4S4-	7M47	dDP
Fl oe dbe	1SuJ1	167	10-	217	1u7	14M1	dDP
Fl oe dbe	1S6J1	74u4	70u4	7010	7662	4M7S	dDP
Fl oe dbe	111J1	2671	2-u	2400	2-66	7N3	dDP
Fl Ndbe	47J1	12774	12-uu	12SS	1271S	2M76	dDP
Fl Ndbe	44J1	2206 S	22- - - 0	227u10	22-6uu	SM6	dDP
Fl lr C.	12J1	27-SS-S	27411 2	2262012	2710 u-	2N30	dDP
Fl lr C.	12J2	20u1S	20-47	200-2	200S2	SM1	dDP
FENCl c p	7-J1	2-26 00	246 701	24S 0 S	246u017	2M70	dDP
FENCl c p	7-J2	16447	1-160	147	1-776	6M07	dDP
FElCe dbe	-2J2	6S-u	6Su1	- u1	6S4S	SM0	dDP
FCr l NT	- J2	4041	4671	4uS4	402-	1M6	dDP
FCDDpl	67J2	u7-7	u2u6	u4-	u766	1N3-	dDP
&hPDlCPtbe	1-6J1	10	S	u	u	1SSN32	dDP
&hPDlCPtbe	1-6J2	0	S	2S		114M-	dDP
Ulr dbe	164J1	0-	110	0-	u	20N30	dDP
Ulr dbe	164J2	10	70	77	2	70N3u	dDP
Gl oCNd dbe	16SJ1	-S	60	u7	60	2-N3S	dDP
Gl oCNd dbe	16SJ2	1S0	140	170	17S	16N31	dDP
HCNe dbe	16-J1	u- 7Su-	67S1-S	40-776	272u-0	6N36	dDP
HCNe dbe	16-J2	4S7uu07	4110-S6	41S60 7	4Su0024	1N34	dDP
t. odbe	11-J1	61u-171	6 0S6-2	6 u7 S1	601722u	6M1	dDP
t. odbe	11-J2	72- -	7-07-	-S04S	7 60u	1N37	dDP
tlC.	-4J2	27S-u	27 7	270-	276S7	2N36	dDP
tlC.	-6J2	42712u	427-11	47170	426SS6	1N3	dDP
tlC.	-0J2	1S 21	1S-6S	1Su 7	1S0 1	1M6	dDP
KlhDTC.	u7J1	246	264	264	2-u	7M2	dDP
Lpl o	2S6J1	2 2	2-7	u-0-	S4S	4M46	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s-	&l Tl Rdpamle pas	S 4LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	06uS	0 -u	0076	00 1	1Nd	dDP
Lpl o	2SuJ1	7- 26	76-6-	7-271	7- S0	1Nd6	dDP
LdEdbe	6J1	22u277	24 1u -	2-2u 6-	24744SS	-N46	dDP
9l g. pPdbe	24J2	4u	0--1	1SS27-	S 2	1N4S	dDP
9l . gl . pPp	--J2	1460	1777	14 0	1472	6N80	dDP
9 CNr op. be	4J1	1u2S4	1u2 6	1012u	10u06	7N67	dDP
9 CNr op. be	-J1	21 26	2241	21110	21u2S	7N81	dDP
9 CNr op. be	6J1	2-16-	24267	2-1 u	24u06	2M7	dDP
9 CNr op. be	0J1	14-66	17 1	14741	142	2N87	dDP
9 CNr op. be	uJ1	7-4 6	76771	74147	7-727	7M7	dDP
mpCohe dbe	1-SJ1	20	S	20	1u	u6N4S	dDP
mpCohe dbe	1-SJ2	0	S	7S	12	12uN0	dDP
mdkpN	6SJ2	1220	17S7	1760	12	-N4S	dDP
3ECPDECIbP	71J2	110	1-S	1SS	122	2SN7	dDP
3CTl PPdbe	7 J2	667u6	66-01	6 12-	60761	2N20	dDP
y ECodbe	1S7J1	6426761	6 24SS1	0S-uSSS	6uS20u0	4Nd	dDP
y ECodbe	1S7J2	71641 2	72-46	71000S4	71 uu6-	1N7	dDP
: dl . odbe	4-J1	7 uSS S	47 -0-6	447S61u	426uu21	-N0	dDP
: dl . odbe	4-J2	14S772	17u66	17 uu	17 667	SN67	dDP
: pNp. dbe	u2J1	u	2	u1	uu2	6N4-	dDP
: pNp. dbe	00J2	20	2S	77	20	24M	dDP
: pNp. dbe	0uJ2	u6	1SS	6-	u4	21N8-	dDP
: dNdC.	2uJ1	2714-7	22-uS6	227S22	226061	1Nd	dDP
: dNpl	1S0J1	117 0	11uu	11 14	11077	2N4	dDP
: dNpl	1S J1	1S S-	1S S-	1S 7S	1S 17	SN7	dDP
: Codbe	27J2	1u4 6	1u1710	1u6uS2	1u4702	1N2	dDP
: TC. Tdbe	u6J1	2 -S	7S74	7274	7S07	4N04	dDP
: TC. Tdbe	uuJ1	2710u	2417u	22011	27742	7N2	dDP
: bNbl	74J1	2-6111	2-0u7u	2-7u-2	2-- 74	SN0u	dDP
Apl r dbe	1- J1	uu667 -	1SS1u1uu	-040-u	4u6440	6N2	dDP
Apl r dbe	1- J2	7 -u074	4111S76	7 0276-	4S14S4-	2N1S	dDP
AEl NNbe	2S7J1	0	70	1SS01	6	SN0u	dDP
AEl NNbe	2S-J1	27240	272uS	22u0	2717-	SN6	dDP
Ac	11uJ1	14-u	1242	1S-S	12-S	16N74	dDP
AdT. dbe	40J1	661u	6200	6226	6704	7N7-	dDP
5ll . dbe	27uJ1	777-7	747u1	72 7-	77--6	2N2	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l Tl Rdpamle pas	S 4LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	-20	7-7	06S	-40	2M14	dDP
YTpIr dbe	102J1	u7	0-	-u	02	10M67	dDP
YTpIr dbe	102J2	-6	77	2u	7	70MS	dDP
YTpIr dbe	106J1	11SS	17Su	1460	12 2	14M24	dDP
YTpIr dbe	106J2	1Su01	11S	11466	11146	2M6	dDP
YTTdbe	u J1	112 24S6	122162-1	12- -1602	12S2S11S	-M47	dDP
YTTdbe	u J2	127- 14	12-02 6	120SS-7	12-4421	1M7u	dDP
Zc d	66J2	27 S	2414	2424	24S	SM01	dDP
ZddC. dbe	SJ1	14 2	140SS	1-u74	1-10-	7Mu	dDP
ZddC. dbe	1J1	7410	7442	7410	7426	SM42	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	87
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10.J26.JSS	t s&sMRe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5nA&w
cRmAnAm	20 2	C2- 261	CS2S. .	7C444-	CS6. 76	1R6.	ql w
cn&AmonE	121 1	4226	4SS1	- 774	4S- 0	4R S	ql w
crwenAq	0. 2	2022	200-	201-	20- 6	1R17	ql w
BsrAm	1- . 1	- 70616	- C4S41	- C1671	- C111-	SR7-	ql w
BsrAm	1- 0 1	677C- 6	6C1202	6C4S24	6C1411	SR 0	ql w
BerEHAm	C 1	2C22	2C04	27SS	27CC	- RS7	ql w
BAmu&G	2SC 1	611S114	666- 004	6CCS1- S	6. 77SS6	6R0.	ql w
BAmu&G	2SC 2	- - 2S166	- 42- SCC	- 22S- 47	- - 212S.	- RS.	ql w
BromAne	71 1	60- .	0- 6C	04S2	016C	. R24	ql w
9 sOmAm	1S7 1	1- 7	1. S	1. S	146	4RC.	ql w
9 sOmAm	1S6 1	- CSC	- 7. C	- CC2	- C2S	1R02	ql w
9 sOmAm	111 1	1C66	171C	171.	1766	4R6S	ql w
9 sRqAm	4- 1	4C014S	4CC44.	4C1061	4C611.	SR0C	ql w
9 sRqAm	44 1	7- 74C74	7- 2- 4. 6	71- 7714	7272417	1R .	ql w
9 srbon	12 1	672- 10C	01- S6- 1	01- 71. .	0S- S6. .	2R 6	ql w
9 srbon	12 2	70611	72672	70476	7. C26	- R20	ql w
9 GRorAne	- . 1	1246C. 22	1. 0C- 11C	17- S. 2C-	1. . 2264.	17R76	ql w
9 GRorAne	- . 2	1. 10- C	1. . 2. C	16277.	1. 6627	- R64	ql w
9 GromAm	. 2 2	4- S2.	42761	41614	42. SS	1R72	ql w
9 obsR&	. C 2	42106	41C07	4- S17	42- C1	1R S	ql w
9 ol l er	6- 2	7C16.	77S60	CS2- .	7C1. 6	1R22	ql w
t EwI rowAm	1. 6 1	0- - C-	02211	0- - C4	02CCC	SRC-	ql w
t EwI rowAm	1. 6 2	- S161	- S417	- S114	- S2- 1	SR 4	ql w
UrbAm	164 1	614. 1	6S622	. C667	6S. 7S	1R40	ql w
UrbAm	164 2	2- . 27	241. 2	242S.	2- C62	1R 0	ql w
HsCoRnAm	16S 1	6- - 67	6. C71	64624	646. 7	2RS2	ql w
HsCoRnAm	16S 2	- S072	2C. - C	- S1C7	- S10-	2RS6	ql w
hoRnAm	16. 1	7621771	C762007	1SS20CC2	C. S4210	7RSC	ql w
hoRnAm	16. 2	41C2261	426- 602	41S- 71C	4176. 74	1RC1	ql w
DnOAm	11. 1	62C- 770	0S1C. 26	021S176	67412SS	0RS0	ql w
DnOAm	11. 2	C. 00C4	C7SSS.	C- 116.	C. 6- 22	2R 6	ql w
Don	. 4 2	- 2- CC04	- 24S- . 7	- 21. - . 4	- 2- 17C.	SR44	ql w
Don	. 6 2	. 7S- 6. . 4	. 747S00.	. 72100- S	. 724. S2S	SR 7	ql w
Don	. 0 2	1. SC62.	140. 77.	1. S7CS4	14C71- 7	1R2C	ql w
KrEI &on	7- 1	- 4S	- SC	- 11	- 2S	. R4-	ql w
LesO	2S6 1	- 17. 6C	- 12S42	- S7121	- 12C11	1R6C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&:T:i Ame:cqduAeO.J	2S2- S0 12:10J26JSS	t s&sMAe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5nA&w
LesO	2S0 1	2621- .	2. 00- S	2. CS71	2. C64C	SR70	ql w
LesO	2S7 1	12- 144C	1210166	121616C	1221. C.	SR0S	ql w
LA&GAum	6 1	24. 604.	261- 4C0	262CC- S	2. 66024	- R02	ql w
y sgnewAum	24 2	1. 4- C64	1470S71	1. S1427	1. 1S724	1R06	ql w
y sngsnewe	. . 2	0- S011	0- 7S- 0	0- . 6- -	0- 40C4	SR.1	ql w
y oPEbOenum	C4 1	16117	1. 77.	160- 6	16246	2R01	ql w
y oPEbOenum	C. 1	646S	676S	671S	601S	- R2.	ql w
y oPEbOenum	C6 1	CS4.	7027	C. . -	C1SC	4R.0	ql w
y oPEbOenum	C0 1	- 0C2	4SS1	44S1	4S6.	0R61	ql w
y oPEbOenum	C7 1	1111-	C72C	1S42C	1S4. 0	6R14	ql w
NeoOEmAum	1. S 1	11C64C	110SC-	11. - 02	110- 01	1R7-	ql w
NeoOEmAum	1. S 2	- . 027	- . 206	- . 0C4	- . . CC	SR0C	ql w
NAqkeP	6S 2	270C6	2C140	2C. 10	2C1. -	1R24	ql w
8 GowI Goruw	- 1 2	4- C2	4S60	41. C	42S6	- R0C	ql w
8 o&swwAum	- C 2	47C- 2-	472C6S	47. 144	47. 7SC	SR60	ql w
F GoOAum	1S- 1	6262. 46	6771C6.	0SS- 2C7	601. C- 6	. R02	ql w
F GoOAum	1S- 2	- 2- 1C6-	- - 242S-	- 16606.	- 24SC00	2R44	ql w
pqsnOAum	4. 1	4S60C1C	4. - 6. 1S	4. . 1SC2	4- 7. 10-	6R20	ql w
pqsnOAum	4. 2	14. 17C	14C1- 4	141C. 0	14. 420	2R40	ql w
pe&enAum	72 1	211	262	2- C	2- 0	1SR7S	ql w
pe&enAum	00 2	1- S	160	140	147	12R42	ql w
pe&enAum	07 2	11-	114	1- S	11C	7RS2	ql w
pAAqon	27 1	1SC6C41C	11S4. S2-	1SCC06SC	11SS4S10	SR.	ql w
pAPer	1S0 1	24. C	2- . S	22SC	2- - C	. R6	ql w
pAPer	1SC 1	2- . C	210.	2S42	21C2	0R2.	ql w
poOAum	2- 2	. - - - 1	. 2S. 2	. 111.	. 2166	2R1-	ql w
p&ona&Aum	76 1	2S71. .	2S07S6	2S670.	2S0612	SR.2	ql w
p&ona&Aum	77 1	174- 6C0	1CS7- 0S	17. - 21C	176742C	1R70	ql w
pulPur	- 4 1	2C. - . S	2C000S	2C6S0C	2C64SS	SR42	ql w
i erbAum	1. C 1	7C424S0	C77. 24S	1S2- - - 66	C670SS4	6RCS	ql w
i erbAum	1. C 2	411. 044	4200727	- C. - 72.	411. 0CC	- RC4	ql w
i GsPAum	2S- 1	- . 60	- 6. C	- - 26	- . 10	4RCS	ql w
i GsPAum	2S. 1	72C.	7276	710S	72. S	SR7.	ql w
i An	117 1	C2S-	77- 6	C1. -	CS64	2R1C	ql w
i A&snAum	40 1	1S221-	1S1- 4S	1SSS- 1	1S11C.	1RSC	ql w
5 rsnAum	2- 7 1	. - 7CS	. 4S16	. 4- 74	. 4SC0	SR40	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J26JSS	t s&sMRe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	9 8p1	9 8p2	9 8p-	9 8py esn	9 8pFpt	5 nA&w
VsnsOAum	. 1 2	00411	06077	0. 72C	06606	1RS4	ql w
Y&erbAum	102 1	1C- C7	2SS72	1C17C	1C. . 0	2R C	ql w
Y&erbAum	102 2	CS70	C26.	C- . -	C2- .	1R40	ql w
Y&erbAum	106 1	1- 066	1- C04	1- 44C	1- 0- S	1RC-	ql w
Y&erbAum	106 2	10- - 4	1027C	1647-	10S- .	2R71	ql w
Y&&Aum	7C 1	12S- 20S-	1- - 0C1- 7	1- 0S- SC4	1- S- 7- 12	6R0C	ql w
Y&&Aum	7C 2	146S- 16	147- S6.	1- 7C626	1444- - 6	- R 0	ql w
ZAnq	66 2	0S270	6C0- S	0SS6C	0SS2C	SR4S	ql w
ZAqonAum	CS 1	- 4761	- - - 4C	- - 0SS	- - C0S	2R -	ql w
ZAqonAum	C1 1	026S	0620	0. 1C	046C	2R 2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 1-	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTl wb D8 :t&:J	y h SM67&	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCmb	20 2	. 17076	. 27a67	. S7261	. 17a- 7	1R11	dDl
qCTb nCE	121 1	- 6a.	- . 74	- a06	- 0- .	aR30	dDl
qpl r Ccl	0a 2	271-	20a7	26. a	20aa	2R14	dDl
Bwpcmb	1- a 1	- 71. 61	- 7. 0aS	4SS00-	- . S727	2R42	dDl
Bwpcmb	1- 0 1	60. 2. 6	6. a4. 0	6. 6624	6. S402	1R4S	dDl
Br pE8mb	. 1	27S1	20- .	27- 6	20. 2	1R30	dDl
Bdl b mTG	2S. 1	602704S	6742216	6. 0SS00	6740S11	1R36	dDl
Bdl b mTG	2S. 2	- 4a060-	- 146S. a	- 10a4S6	- 2a. 02a	aR27	dDl
Bpmb cCr	71 1	02S2	671S	0020	0246	6R a	dDl
9 wob cmb	1S7 1	12.	16-	160	1a-	1- R4a	dDl
9 wob cmb	1S6 1	- . 06	4- a1	- 760	4S6a	6R24	dDl
9 wob cmb	111 1	1727	17a1	1. S4	1761	2RS7	dDl
9 w8lcmb	4- 1	47- S0a	4. 4. 4.	4. 40aS	4. S. 2a	1R 7	dDl
9 w8lcmb	44 1	726SaS-	7- 6. 17.	7a61107	7- . 6. a0	1R71	dDl
9 wpenC	12 1	6. 742a4	01- 1S- 0	0- 6- - S4	01a. a- 2	2R60	dDl
9 wpenC	12 2	767- .	7aS12	7a6S7	7a72S	1RS.	dDl
9 G8npCr	- a 1	107. 160a	21- 0. S46	2- 666- - .	2S. 0. S2S	1- R76	dDl
9 G8npCr	- a 2	104- 47	17- 2. .	17642.	171- a.	- R46	dDl
9 Gpmb cmb	a2 2	420. 4	4- 02S	4- 7SS	4- 4- 7	1R2.	dDl
9 new8T	a. 2	4- 4. 6	4- 640	4- 17.	4- 444	SRa4	dDl
9 nDDr p	6- 2	. 11- S	. S7. .	. 1624	. 1217	SR41	dDl
&El Dpnl cmb	1a6 1	6072-	021. a	02. - -	0S. 74	- R7.	dDl
&El Dpnl cmb	1a6 2	2. 6- 6	- Sa17	2. 406	2. 700	1R77	dDl
Upecmb	164 1	a. 20a	622- S	6S6Sa	6S0S-	2R44	dDl
Upecmb	164 2	24- a6	24- 0.	2a11S	2461a	1R04	dDl
Hwon8Ccmb	16S 1	64616	6a- 76	6610-	6a- . 2	1R1.	dDl
Hwon8Ccmb	16S 2	2. 6. -	- Sa72	2. 06S	- SS12	1R6a	dDl
h n8b cmb	16a 1	. 610S- 6	. 71410a	1SS0- a17	. 7- 4. 1S	2R -	dDl
h n8b cmb	16a 2	4417. 44	- . . 762-	41640. 4	41. 412S	aRSa	dDl
tCocmb	11a 1	01777SS	0S62076	026- . . 4	010176S	1R42	dDl
tCocmb	11a 2	. . 4a00	. 121S2	. 46S62	. aS. 14	4R 6	dDl
tpnC	a4 2	- - 6S111	- - 166- 4	- - 4aa06	- - 4S004	SR66	dDl
tpnC	a6 2	a77. 1SSa	a. 7- . 4S0	a70aa20a	a. 1617. 6	1RSS	dDl
tpnC	a0 2	1a- S1aa	1a20016	1a14aSa	1a2412a	SRaa	dDl
KpEDTnC	7- 1	- 26	2. 4	- - 6	- 1.	6R 0	dDl
Lr wo	2S6 1	- 1- 4- 6	- 147. 0	- 16126	- 1472S	SR4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 1-	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67&	&c8mTcnC:MwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10.J27.Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR0

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CcT
Lr wo	2S0 1	2a6a4a	2a6. a-	2a6. a1	2a6716	SR8S.	dDl
Lr wo	2S7 1	121S624	12- 1022	122114a	1221164	SR76	dDl
LcTGmb	6 1	26- 242-	26S4- 1a	2014472	26aS4S0	2R16	dDl
y wgCr l cmb	24 2	1aS- . SS	147a- 70	1470. - 4	14. 24S0	SR60	dDl
y wCgwCr l r	aa 2	04- 100	0a. 40.	0441. a	047. aS	1R22	dDl
y n8Eeor Cmb	. 4 1	16- 17	1a. 06	16- 00	16224	1R -	dDl
y n8Eeor Cmb	. a 1	6100	616S	60a2	6- 6-	aR S	dDl
y n8Eeor Cmb	. 6 1	77- 6	7. 61	. 00.	. 1. 2	aRa0	dDl
y n8Eeor Cmb	. 0 1	41a.	- . 26	- 006	- . a-	4R7.	dDl
y n8Eeor Cmb	. 7 1	1S121	1S0. 6	1S62.	1Sa1a	- R a	dDl
u r noEb cmb	1aS 1	11- S61	1106a.	11. 447	11602-	2R72	dDl
u r noEb cmb	1aS 2	- a404	- a. 77	- a246	- aa6.	1RS0	dDl
u cdkr 8	6S 2	2. . 72	- S176	- S- - 2	- S160	SRa7	dDl
NGhl DGhpml	- 1 2	4S42	- . - 4	4174	4Sa-	- RS.	dDl
NnTwl l cmb	- . 2	47272.	470S60	4. 1S. 6	476. . 0	SR7a	dDl
F Ghocmb	1S- 1	67006SS	671- 6a6	0171. 70	6. a0047	2R7-	dDl
F Ghocmb	1S- 2	- - 64. 14	- S24710	- 1- a1. S	- 104. 04	aR46	dDl
l dwCocmb	4a 1	4a0. a67	4447624	47. 77S2	4642- - 1	4R .	dDl
l dwCocmb	4a 2	1a2606	1- 0a6a	14- 6. a	14464a	aR2a	dDl
l r 8 Ccmb	72 1	10S	- 21	2S2	2- 1	- 4R4-	dDl
l r 8 Ccmb	00 2	11-	14-	1- 0	1- 1	12RS1	dDl
l r 8 Ccmb	07 2	1S4	1Sa	1Sa	1Sa	SRaa	dDl
l c&dnC	27 1	11Sa472.	11- 204- 0	1116S- 01	1117S70.	1R2-	dDl
l c&vr p	1S0 1	2460	24aS	22SS	2- 02	6R S	dDl
l c&vr p	1S. 1	2- S.	2274	22- 4	220a	1R67	dDl
l nocmb	2- 2	a- 171	a21a2	a1. - a	a2422	1R20	dDl
l TpnCTcmb	76 1	2S4747	2S- a42	2S0. 7-	2Sa4a7	1R11	dDl
l TpnCTcmb	77 1	177SS. 2	17. . a17	1. SS042	17. - 4a1	SR61	dDl
l m8mp	- 4 1	2. 6- S7	2. . a42	- S- 27a	2. . 012	1R16	dDl
Ar pecmb	1a. 1	1SSa20- S	. 7S7S70	1S46S6a6	1S1S01a7	- R26	dDl
Ar pecmb	1a. 2	4- 44. 46	- . 27- 67	4S07244	4110176	aR12	dDl
AGw8Bmb	2S- 1	- 6. 2	- 4a1	- 4S.	- a10	4R a	dDl
AGw8Bmb	2Sa 1	74S-	71a-	702S	742a	- R 0	dDl
AcC	117 1	76a-	7076	. 42S	7. a-	4Ra7	dDl
AcTwCcmb	40 1	. 767S	1SS. 4S	1S1606	1SS4- 2	1Raa	dDl
5 pwCcmb	2- 7 1	a4a- a	a6620	aa0S6	aa62-	1R77	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 1-	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67&	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMt8 :u wb r :J	S. 6qF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	00. . 2	00. 64	006a6	00701	SR24	dDI
YTTr pecmb	102 1	17aaa	1. 6S0	1. 6a0	1. 20-	- R2-	dDI
YTTr pecmb	102 2	. SS-	. 60S	. a- 1	. 4S2	- R04	dDI
YTTr pecmb	106 1	1- 404	1- 441	1- a16	1- 400	SR27	dDI
YTTr pecmb	106 2	102S6	101- 4	10- - 4	10224	SRa.	dDI
YTTpcmb	7. 1	1- 66120S	1- aS7400	14112. 01	1- 06S. S6	2R27	dDI
YTTpcmb	7. 2	1a22416	1206141	1- 0SS2.	1- 7. a2.	7R 4	dDI
ZdCd	66 2	01. 21	01. S7	01044	017a7	SR14	dDI
ZqpdnCcmb	. S 1	- - aa7	- - a. 1	- - 0. 2	- - 640	SR 7	dDI
ZqpdnCcmb	. 1 1	04S2	0- 00	06S2	0461	1R3a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
ARminium	23X2	10 4R	13R- - 3	130 22	1011- 6	2U12	cpw
Antimony	121X1	R63	0 0	013	001	0U3R	cpw
Arwenic	3 X2	23	4	4R	4O	2U13	cpw
Bsrium	1- X1	346RR	3 032	30R14	364R	2U04	cpw
Bsrium	1- 3X1	1- O0 0	142422	1- 603	1- 6310	4U2-	cpw
BeryRium	RX1	61	64	6O4	36	4U14	cpw
Biwmuth	2ORX1	32O4261	6R1 302	6332 2O	6R64100	- U16	cpw
Biwmuth	2ORX2	24- 010O	- 041O6O	- 2041- 4	- 1033R1	22U16	cpw
Bromine	01X1	1R-	40R-	4 OR	406	3U04	cpw
Msdmium	1O0X1	2R	31	2R	4-	U06	cpw
Msdmium	1O6X1	- 3 1	- R04	- 6 1	- 3R	4U 1	cpw
Msdmium	111X1	60O	641	64	6	- U20	cpw
MsRium	4- X1	R4O26	R3 - 6	R3RR-	R6 10	2U2	cpw
MsRium	44X1	1662ROO	163 O3O	131300	160 200	1U31	cpw
Msrbon	12X1	- 2 O- 60	- - 6- 013	- - - 4 4	- - 22 46	1U0R	cpw
Msrbon	12X2	41463	4O640	4O00-	4ORRR	1UO-	cpw
MhRorine	- X1	0040- 23	R1O426-	RO64461	ROO 604	1U -	cpw
MhRorine	- X2	6OO63	6O311	6O311	6O4R6	OU61	cpw
Mhromium	2X2	R126	RO6-	R 3	R24R	2URO	cpw
MobsRR	RX2	03 -	046R	0366	066-	1UR4	cpw
Mopper	6- X2	1R126	1043R	1063R	10361	1U33	cpw
Dywprowium	1 6X1	14- 41	141 O	141R1	14223	OU31	cpw
Dywprowium	1 6X2	6100	001	3R0	R 6	- U4	cpw
Frbium	164X1	1OR31	11614	11043	11433	- UR	cpw
Frbium	164X2	4011	4321	46R1	4341	1U 2	cpw
GsdoRhium	16OX1	11632	12R2-	1- 124	12 3-	6U26	cpw
GsdoRhium	16OX2	R40	R20	6- O	6O6O	- U O	cpw
9 oRhium	16 X1	1O2R42R0	R3R1421	R 2 106	R03O- O2	- URR6	cpw
9 oRhium	16 X2	- O4O242	4R6- O44	41- 664	4O46- 13	2- U04	cpw
Indium	11 X1	3116O R	31O3360	60O2- 1O	3OO0312	2U	cpw
Indium	11 X2	3O631	11- R R1	R643- -	R- 3O1-	2- U24	cpw
Iron	4X2	62- - -	R- 4- 1	6O2233	6O6- 40	2U -	cpw
Iron	6X2	11R1334	116- R6	11 21463	116R2R 6	1U34	cpw
Iron	3X2	20262R	23- 3- R	23 O6R	233146	1U3-	cpw
Krypton	0- X1	20O	2- R	233	26	0U31	cpw
Lesd	2O6X1	6OO0R	61001	61- 04	61110	1U 1	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpPe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MPent:SsmpPe:ID:J	H9 O. 60L	DiPtion:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iPe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Lesd	2O3X1	O- 14	21	4RR0	O010	2UJ O	cpw
Lesd	2O0X1	2- 3- 31	24- 36-	2- RR2R	24O- 4	1UJ 4	cpw
Lithium	6X1	2632- 1O	2 611OO	2 124- R	2 01R O	- U13	cpw
Hsgnewium	24X2	2ROO634	23341O	204O3	204O -	2UJ -	cpw
Hsngsnewe	X2	1 O 20	1430- 1	1 O- 0O	14R 0O	1U01	cpw
HoPybdenum	R4X1	2ROO	- - 04	- 1 R	- 140	3U6R	cpw
HoPybdenum	R X1	1OO0	12R2	110-	1161	12UJ 1	cpw
HoPybdenum	R6X1	1013	160-	1063	130R	UJ O	cpw
HoPybdenum	R3X1	02	60-	R0-	0- 1	10U03	cpw
HoPybdenum	R0X1	1R63	2213	2O R	2O01	6U00	cpw
Neodymium	1 OX1	22- 2	2- R22	2- 421	2- 2- 2	- U4	cpw
Neodymium	1 OX2	3O3	3O- 2	3O4R	3O 2	OUJ 1	cpw
NickePP	6OX2	6- 10	6O40	61R0	6100	2U1R	cpw
8 howphoruw	- 1X2	1OOO	042	R 0	R- -	0U3R	cpw
8 otswwium	- RX2	1O6- 36	1OO- 0	1O- 3- 1	1O- 400	2UR1	cpw
Ehodium	1O- X1	323OR31	311614-	6063- 40	3O04021	2U03	cpw
Ehodium	1O- X2	2- R41 6	- 3ROO 3	- 2163 -	- 1- - 6 6	22UJ R	cpw
Scsndium	4 X1	4300 13	4 22 O-	4 13 R1	46OR - 3	- UJ 6	cpw
Scsndium	4 X2	1O 6O0	160- - 3	14- 233	1- RO34	22U3O	cpw
SePenium	02X1	- O	4	14	- O	2U0-	cpw
SePenium	33X2	2O	- -	2-	26	23U1	cpw
SePenium	30X2	- 0	- 6	-	- 6	4U2O	cpw
SiPcon	20X1	22 4411	2- 1- 21R	2- 44R64	2- O41R0	1URR	cpw
SiPver	1O3X1	0	4R2	43	O0	0U63	cpw
SiPver	1ORX1	2	0-	R2	63	6U41	cpw
Sodium	2- X2	22410	2162	22310	222 4	2UJ 4	cpw
Strontium	06X1	- 00- 0	4OR1R	- R016	- R0 3	2U61	cpw
Strontium	00X1	- - 06-	- 2212	- 4224	- 40- 3	2U4-	cpw
SuPur	- 4X1	23O414	231 O0	2314 R	231123	OU2-	cpw
Terbium	1 RX1	1O12OOR2	1OO- 23- O	R3264 4	RR R3 R	2U00	cpw
Terbium	1 RX2	- O66326	40R11RR	41O3 - -	4O2101R	22U36	cpw
ThsPum	2O- X1	0R2	0 0	0 0	03O	2U21	cpw
ThsPum	2O X1	1313	132	1ROO	1301	U02	cpw
Tin	110X1	24R2	2 04	21OR	2- R	1OUJ 2	cpw
Titsnium	43X1	1R 0R	1R20O	2OOO6	1R62	1U06	cpw
Crsnium	2- 0X1	1O421	111O	1O043	1O3R1	- U2O	cpw

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Vsnsdium	1X2	1 R2	1 - 60	1 43	1 430	O.32	cpw
Ytterbium	132X1	- 626	- 013	4226	- 0RO	3U00	cpw
Ytterbium	132X2	10- R	1R32	1330	106-	U4	cpw
Ytterbium	136X1	- - 1	- 326	- - 42	- 43-	6U1	cpw
Ytterbium	136X2	R23O	142O2	1- 12-	121RR	21U26	cpw
Yttrium	0RX1	1- 4 RO- 3	12R324O-	124R3RO3	12R3644R	- U3O	cpw
Yttrium	0RX2	R4- 0	1 0R632	126- 0 6	126 3O4	2 U2	cpw
Zinc	66X2	14000	14203	1- 0RO	14-	- UO	cpw
Zirconium	ROX1	664-	6R1O	3O-	606-	2UR2	cpw
Zirconium	R1X1	1 13	1 O0	14 O	14R2	2U44	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 14	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67I	&8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdOmpr o:J	2S2- S0 12:10J-4.Ja2	&wTwMv8 :u wb r :J	S. 7qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
q8mb cCcmb	20 2	. . 671.	1SSS7S2	. 762S.	. . 461S	SR06	dDI
qCTcb nCE	121 1	1S22a.	1Sa0. 2	1S420-	1S41S7	1R0S	dDI
qpl r Ccl	0a 2	- . Sa	- . - 1	- 7. a	- . 1S	SR47	dDI
Bwpcmb	1- a 1	76. 222	772. S7	. SS4Sa	774107	1R00	dDI
Bwpcmb	1- 0 1	1644712	1606. 77	16. 6114	16026- 7	1Raa	dDI
Br pE8cmb	. 1	17S. 6	17S2-	107S0	10. 0a	SR74	dDI
Bcl b mTG	2S. 1	67- 1- 4.	677S710	6. 17176	6706074	SR6-	dDI
Bcl b mTG	2S. 2	- 2- 2a6.	- 2- . 742	- 24- 21-	- 2- 7a42	SR10	dDI
Bpmb cCr	71 1	6. S2	00. 4	0700	0a24	0R1.	dDI
9 wob cmb	1S7 1	1S2a	1SaS	111-	1S6-	4R24	dDI
9 wob cmb	1S6 1	aa6S	a606	aa06	a6S4	1R1-	dDI
9 wob cmb	111 1	14. 14	147a7	1a. - 4	1a2- a	- R 7	dDI
9 w8lcmb	4- 1	4. a- 22	4. 0S12	4. a27S	4. a702	SR2S	dDI
9 w8lcmb	44 1	7- - . 2S7	7- 76- a1	72. a604	7- 4S411	SRa4	dDI
9 wpenC	12 1	6044200	6. 2- 074	0Sa1027	6. S6a. 6	2R24	dDI
9 wpenC	12 2	71- 41	7- - 11	72774	72a12	1R26	dDI
9 G8npcCr	- a 1	1a1a12Sa	1720S- 14	2S64S- 1a	17S2S611	1aR27	dDI
9 G8npcCr	- a 2	1aa. S.	16S020	16a261	16S6- 2	2R 1	dDI
9 Gpmb cmb	a2 2	11- . S-	11S06a	111026	1121- 1	1R4-	dDI
9 new8T	a. 2	- 4a6a0	- 46a- 1	- 4S42-	- 442S-	SR 6	dDI
9 nDDr p	6- 2	21- 02S	2147- -	211- 6a	21- - S6	SR7-	dDI
&El Dpnl cmb	1a6 1	01aSS	022S-	0171S	017- 7	SR4.	dDI
&El Dpnl cmb	1a6 2	2. a2.	2. . . S	- S2a7	2. . 26	1R2-	dDI
Upecmb	164 1	6S262	6S4a4	6S2- 0	6S- 17	SR2S	dDI
Upecmb	164 2	24- - 2	24- a2	24aa6	24414	SRa1	dDI
Hwon8Ccmb	16S 1	6400a	62. S0	6aS7a	642a6	1R7-	dDI
Hwon8Ccmb	16S 2	2. . - S	2. . 40	2. 666	2. 747	SRa-	dDI
h n8b cmb	16a 1	. 671017	. 7446a-	. 7a7- 46	. 0. 4. S6	1RSS	dDI
h n8b cmb	16a 2	41. 6- 7S	414. 1- S	4- S2a0-	4216S27	1R76	dDI
tCocmb	11a 1	6. Sa60.	0S21- 4S	01- - aS7	0S2S106	1R62	dDI
tCocmb	11a 2	. 6SaS.	. aS- . 4	. 46a2.	. a2400	SR06	dDI
tpnC	a4 2	- 4S. 6S0	- - 6- SS7	- - S02- 7	- - a. . a1	1Ra-	dDI
tpnC	a6 2	6120- . 1.	6S7S0461	6S4. . aaS	6S76S- 1S	SR64	dDI
tpnC	a0 2	1a. . Sa2	1a0a260	1a674. S	1a7S. - 6	1RS2	dDI
KpEDTnC	7- 1	- S2	- 2a	- a6	- 27	7R2-	dDI
Lr wo	2S6 1	- 22. 7-	- - Sa1S	- - 2644	- 27012	1Ra4	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 14	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67l	&c8mTcnC:MwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10J-4.Ja2	&wTwMv8 :u wb r :J	S. 7qF UMR

NwpwbrTrp	ywll	9Nl 1	9Nl 2	9Nl -	9Nl yrwC	9Nl Fl &	5CdT
Lr wo	2S0 1	20S216	201116	20a. 4.	202420	1R1-	dDl
Lr wo	2S7 1	12. aa0a	12. 406S	1- Sa662	12. 7666	SR40	dDl
LdTGmb	6 1	2a1004.	26S4462	26212a.	2a711a0	2R1a	dDl
y wgCr l cmb	24 2	1a4- S7a	1a- S. 2a	1a1aS72	1a2. 6. 7	SR.2	dDl
y wCgwCr l r	aa 2	74. 072	744- . a	74S0. a	744. . 1	SRa4	dDl
y n8Eeor Cmb	. 4 1	1a74-	1646S	16. 76	164- S	- R47	dDl
y n8Eeor Cmb	. a 1	6S67	a7. -	6S- a	a. . .	1Raa	dDl
y n8Eeor Cmb	. 6 1	7a07	. aS4	. a. a	. 226	6R1S	dDl
y n8Eeor Cmb	. 0 1	4SS.	- . S1	4S- 4	- . 71	1R07	dDl
y n8Eeor Cmb	. 7 1	1S4. 6	1S162	1Sa6-	1S4S0	2RS6	dDl
u r noEb cmb	1aS 1	110S26	11a40-	110010	1160- .	SR.7	dDl
u r noEb cmb	1aS 2	- a146	- aSS2	- aS- 2	- aS6S	SR22	dDl
u cdkr 8	6S 2	117a- 6	11a266	11a4S7	1164S-	1Ra.	dDl
NGhl DGhpml	- 1 2	- . - 4	4- . 2	4S. 2	414S	aR62	dDl
NnTwl cmb	- . 2	a1- Sa0	aS4a2S	a1aSS6	a1S761	1RS.	dDl
F Ghocmb	1S- 1	671100-	6. a- 4S6	672a76S	676- 67S	1R14	dDl
F Ghocmb	1S- 2	- - S07aa	- - 111. 7	- 210. 4-	- 207. . .	1R61	dDl
l dwCocmb	4a 1	4a0a7- a	4a7a2a2	4a74- 67	4a71717	SR11	dDl
l dwCocmb	4a 2	146. a4	140S00	14- 4- a	14a722	1R42	dDl
l r 8 Ccmb	72 1	2- 12	22a1	24S1	2- 22	- R2a	dDl
l r 8 Ccmb	00 2	2S-	210	1. 0	2S6	4R.a	dDl
l r 8 Ccmb	07 2	27a	27.	- 26	- SS	0Ra4	dDl
l c&dnC	27 1	112S. . 02	11S200. 0	11202- a4	1110SS41	1R14	dDl
l c&vr p	1S0 1	62- 42	62- a.	62467	62- . S	SR11	dDl
l c&vr p	1S. 1	a. 1- 6	6S24.	a. 41-	a. a. .	SR.0	dDl
l nocmb	2- 2	60S77	672a2	602. 0	60a46	SR.2	dDl
l TpnCTcmb	76 1	2Sa1. 7	212144	2Sa1. 0	2S0a1-	1R -	dDl
l TpnCTcmb	77 1	17714a0	1. a7- . S	1. 40- 42	1. 2. S6-	2R16	dDl
l m8mp	- 4 1	- 112a0	- S. 7- 0	- 11. 72	- 11S2a	SRa	dDl
Ar pecmb	1a. 1	. 0044a1	1SS22SaS	1S1S46S0	. . 60S- 6	1R02	dDl
Ar pecmb	1a. 2	4SaS- 07	4SaS1. 6	414a10.	4S71. 17	1R4	dDl
AGw8Bmb	2S- 1	a7060	a. 7. 0	6S71S	a. 72a	1R01	dDl
AGw8Bmb	2Sa 1	141240	142. 4S	144- 1a	1427- 4	1RS7	dDl
AdC	117 1	12a14	1201a	12747	126. 2	1R.2	dDl
AdTwCcmb	40 1	. 20aS	77a6a	7020a	7. a- S	- R2S	dDl
5 pwCcmb	2- 7 1	a40. 4	a- 421	aaS- 0	a4410	1R6S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 14	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67I	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J-4Ja2	&wTwMt8 :u wb r :J	S. 7qF UMRb

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	2S0- 02	2S- 4a.	2S21- 4	2S4- 22	1R -	dDl
YTTr pecmb	102 1	1. 1. 7	1. 0. S	1. . a0	1. 647	2RS-	dDl
YTTr pecmb	102 2	. S2a	. 1a.	. S2S	. S67	SR70	dDl
YTTr pecmb	106 1	1- - 6a	1- 6. .	1- a66	1- a4-	1R24	dDl
YTTr pecmb	106 2	10a- 4	10- - .	10- 07	10410	SRa.	dDl
YTTpcmb	7. 1	1- S42S7.	1- . S2a. 0	1- aa1a67	1- 4. 70a1	- R21	dDl
YTTpcmb	7. 2	14- 062.	14a- 70.	1427a7S	144SS- S	SR7.	dDl
ZcCd	66 2	1S6- 1.	1S762S	1S7- a7	1S006a	1R10	dDl
ZcpdnCcmb	. S 1	- 4167	- 4a7a	- 41a1	- 4- S1	SR02	dDl
ZcpdnCcmb	. 1 1	0244	7107	001.	001-	6RSa	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wo D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wo D8 Jt&JaJ	y h SM 0	&8mTmCJMwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J10a-0a S	&wTwMv8 Ju wb r Ja	S. . qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb oCcmb	20 2	7- 06S4	72. 6: -	741: . 1	7- 6272	SR0-	dDI
qCTb nCE	121 1	4074	46S1	47- 4	404S	2R .	dDI
qpl r Ccl	0: 2	47- 7	4611	4607	40S.	2R47	dDI
Bwpcmb	1- : 1	: 2- 0: 2	: - - 162	: 27S24	: 27- 1-	SR7.	dDI
Bwpcmb	1- 0 1	. 1270:	. 44. : :	. 1. 2- 4	. 2: 677	1R7-	dDI
Br pE8mb	. 1	206:	276:	2022	2074	2R6-	dDI
Bdl b mTG	2S. 1	67S2. 01	6746: 0:	0S. S7S4	6. 1- 4: S	2R24	dDI
Bdl b mTG	2S. 2	- 2. 04SS	- 4- . 6: 0	- - : 7426	- - 6: 161	2R12	dDI
Bpmb oCr	71 1	74S-	7- 07	. 1- 0	76- .	4R .	dDI
9 wob cmb	1S7 1	22:	246	1. 6	222	11R S	dDI
9 wob cmb	1S6 1	41S1	4- 60	4- . 2	4270	- R0 0	dDI
9 wob cmb	111 1	1. 4S	17. 4	1. 4S	1. 2:	1R 7	dDI
9 w8lcmb	4- 1	24- 4S4	24. 41.	24: S77	24: . 0S	1R26	dDI
9 w8lcmb	44 1	426. 170	42. 61. -	4202: 44	420. - S7	SR 4	dDI
9 wpenC	12 1	- 0S04S.	- 7- - 4S.	- 722241	- 070676	1R74	dDI
9 wpenC	12 2	4: 040	4: 0- S	4: : 2.	4: 66.	SR20	dDI
9 G8hpcCr	- : 1	174: 4266	224S66S2	24S7706.	2164. 70.	1- R 6	dDI
9 G8hpcCr	- : 2	10772S	17- - . 1	1. SS. :	1741S2	- RS7	dDI
9 Gpmb cmb	: 2 2	6S- 20	: . 6. 0	: 71S1	: . - 0:	1R -	dDI
9 new8T	: . 2	0: 67S	0- . . 1	04627	04066	1R14	dDI
9 nDDr p	6- 2	126172	12- . 4:	12: 6- S	12: 2: 2	SR -	dDI
&El Dpnl cmb	1: 6 1	60. 1:	6. 04.	67707	67740	1R -	dDI
&El Dpnl cmb	1: 6 2	27727	272- 0	27410	274. 4	1RS6	dDI
Upecmb	164 1	: 0S: 0	: 7S44	: 74- 7	: 0746	1R2-	dDI
Upecmb	164 2	2- 0- :	2- 2: 0	2- S7S	2- - : 0	1R4:	dDI
Hwon8Ccmb	16S 1	6144-	6- 160	61. 4:	6217:	1R4-	dDI
Hwon8Ccmb	16S 2	2. - : 6	2. 4: 6	2. S. 2	2. - S1	SR64	dDI
h n8b cmb	16: 1	. 40047.	. 6S07- S	. . : 2: 7-	. 60. - S1	2R 4	dDI
h n8b cmb	16: 2	4170S7.	441. 42:	420200.	42. - S. 0	2R04	dDI
tCocmb	11: 1	6. 6110:	01267: .	02- - 6S2	01S0212	1R -	dDI
tCocmb	11: 2	. 66. 0S	1SS- 06.	. 66S. :	. 07. 4:	2R2S	dDI
tpnC	: 4 2	- 0. - - 41	- 72: - 4S	- 721242	- 71- - S7	SR46	dDI
tpnC	: 6 2	0S1- S6S2	67- 61622	6. 1. S6- 2	6. 22061.	1R27	dDI
tpnC	: 0 2	17S4S. 0	1001. - 1	17S: - 06	10. - 7S1	1RS6	dDI
KpEDTnC	7- 1	- 4S	- 64	- 40	- : S	- R40	dDI
Lr wo	2S6 1	- - 0474	- 4: 4: 7	- 40- . 0	- 4- 446	1R -	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wb D8 Jt&JaJ	y h SM 0	&c8mTcnCJMwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	271: S2	27- 6. 4	270S00	274S. 1	SR.	dDI
Lr wo	2S7 1	1- 20- S0	1- - : 02:	1- : 4676	1- - . 2- .	1RS:	dDI
LcTGmb	6 1	2: SS1- 0	2: 061S4	26: : 0- 2	2: 00- 24	- RS2	dDI
y wgCr l cmb	24 2	1S22: 77	. . 10S6	1SS: . 17	1SS60- 0	1R 4	dDI
y wCgwCr l r	: : 2	1. . . 6. 6	1. 4S4. -	1. 0S1: 1	1. 0S114	1R S	dDI
y n8Eeor Cmb	. 4 1	2- 4. :	24071	24: 7S	24276	2R7:	dDI
y n8Eeor Cmb	. : 1	0120	0400	0600	0420	- R0:	dDI
y n8Eeor Cmb	. 6 1	11177	11764	110S:	11: 76	- RS:	dDI
y n8Eeor Cmb	. 0 1	4- 74	4. S.	4: 67	462S	: R00	dDI
y n8Eeor Cmb	. 7 1	1147.	11702	11: 02	11644	1R0-	dDI
u r noEb cmb	1: S 1	1S. 611	111. : 0	11107-	111110	1R17	dDI
u r noEb cmb	1: S 2	- 4467	- 2. 61	- 26. 0	- - - 0:	2R76	dDI
u cdkr 8	6S 2	4746.	47: 12	47016	47: 66	SR20	dDI
NGhl DGhpml	- 1 2	- 2. 2	- - - 4	- 6. 2	- 4- .	6R .	dDI
NnTwl l cmb	- . 2	- 2- 1SS	- - 2: 02	- 2: 6: .	- 20111	1R S	dDI
F Ghocmb	1S- 1	67: . 276	0S1. S62	01: S: 62	0SS. 6- 0	2RS7	dDI
F Ghocmb	1S- 2	- 2S4S6-	- - 74- S0	- 2- : S26	- 204466	2R 4	dDI
I dwCocmb	4: 1	461S011	40102- :	46. : - 12	460441.	1R2S	dDI
I dwCocmb	4: 2	144010	1: 4S12	146. 2.	147: : -	- R20	dDI
I r 8 Ccmb	72 1	411	4S1	42S	411	2R27	dDI
I r 8 Ccmb	00 2	12-	12-	1: 0	1- 4	14R 1	dDI
I r 8 Ccmb	07 2	1- :	11.	141	1- 2	7R64	dDI
I c&dnC	27 1	1S4240- 2	1S7S06. :	1S- 741: .	1S: - 7762	2R22	dDI
I c&vr p	1S0 1	2S- 4	2S: S	2S0:	2S: -	1RS2	dDI
I c&vr p	1S. 1	1. 74	210:	100:	1. 07	1SR12	dDI
I nocmb	2- 2	26S: 16	2: 4. : 0	2: 6622	2: 0- 6:	1R1	dDI
I TpnCTcmb	76 1	2S1: 21	2S174-	2S2: 02	2S1. 0.	SR20	dDI
I TpnCTcmb	77 1	17- 0: 6-	1746: 70	1707- - .	17: 416-	1R16	dDI
I m8mp	- 4 1	- - 01. 2	- - 71- 7	- 2. . S2	- - : S00	1R 4	dDI
Ar pecmb	1: . 1	. 0S2S12	1S10S0SS	1S- 6: S7S	1SS0. 264	- R 7	dDI
Ar pecmb	1: . 2	41- . - : 7	42716. 0	41- 6060	417: . 41	1R 7	dDI
AGw8cmb	2S- 1	- 1: .	- S60	- S60	- S. 7	1R01	dDI
AGw8cmb	2S: 1	0607	04: 2	046.	0: - -	1R60	dDI
AcC	117 1	117: 6	117S:	11. 7.	1177-	SR7S	dDI
AcTwCcmb	40 1	61SS:	6- : SS	61624	62S4-	2RS.	dDI
5 pwCcmb	2- 7 1	0- 0S6	04. : :	0446S	04- 04	SR7:	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wb D8 Jt&JaJ	y h SM 0	&8mTmCJMwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	: 1 2	1SSS60	. 04S:	. 0742	. 74- 7	1R4:	dDl
YTTr pecmb	102 1	1716-	17- 21	176- S	17- 02	1R2.	dDl
YTTr pecmb	102 2	7. 42	76- 1	76. 2	70: :	1R77	dDl
YTTr pecmb	106 1	12. 2-	122: 6	1- 1: 0	1200.	- R66	dDl
YTTr pecmb	106 2	10: 60	1027.	10SS6	10270	1R62	dDl
YTTpcmb	7. 1	1- 22: - 0:	1- : 22. : S	1- 6. 071:	1- 472S40	1R00	dDl
YTTpcmb	7. 2	141. 412	14604: 0	1442771	144- 2: S	1R66	dDl
ZcCd	66 2	: 00- 1	: 6. . 7	: 6S. 1	: 6. 4S	1R44	dDl
ZcpdnCcmb	. S 1	: 64. .	: 6- : 6	: 04S2	: 60: 2	1RSS	dDl
ZcpdnCcmb	. 1 1	12- 64	121- 1	12. 4S	12407	- R4	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	6y4262	6y17S4	647y4S	6y1y-y	SU44	ql w
cn&Amonh	121 1	4EyE	yS67	4E67	4EE7	1U21	ql w
crwenAq	0y 2	- 174	- S60	- 1E4	- 147	2U24	ql w
BsrAm	1- y 1	- 12- 2y	- 1676S	- 10EEE	- 1y027	SUEy	ql w
BsrAm	1- 0 1	y6217y	yy7ESy	y66y1S	y62y- 4	SU67	ql w
BerhPAm	E 1	2- 26	2- 7S	222S	2- SE	- Uy-	ql w
BAmu&G	2SE 1	6E7770E	0S07- 1y	60yy126	6E4S00-	2U4S	ql w
BAmu&G	2SE 2	- 1E0y42	- 117- 42	- 2- y101	- 17- 67y	1U70	ql w
BromAne	71 1	7276	7276	7461	7- 44	1U21	ql w
RsOmAm	1S7 1	277	- 42	2- -	277	17U74	ql w
RsOmAm	1S6 1	42E2	4SS1	4S- 4	41SE	- U7E	ql w
RsOmAm	111 1	- SS0	27y0	- 12S	2EEy	4U4S	ql w
RsRqAm	4- 1	242662	2- Ey21	2- 6SES	2- E424	1U0	ql w
RsRqAm	44 1	41E2EyS	4S00622	4S6E24y	411- 202	1U67	ql w
Rsrbon	12 1	00- y6- 4	7S67y07	711SE10	0E0101S	2Uy7	ql w
Rsrbon	12 2	E6006	E0471	E7- 70	E0y47	SU7-	ql w
RGRorAne	- y 1	1E6417ES	224y- 20E	2- E71717	22S2y662	EUEE	ql w
RGRorAne	- y 2	10y614	17S- - 0	171- S7	10ES76	1U0S	ql w
RGromAm	y2 2	422y2	42262	42S12	4210y	SU4	ql w
RobsR&	yE 2	- 4yyy	- 4y4y	- - 4y6	- 4176	1U7y	ql w
RoI I er	6- 2	700E-	70EE7	77611	771- 4	SU47	ql w
t hwI rowAm	1y6 1	yEE1E	61007	yEySE	6S4S2	2USS	ql w
t hwI rowAm	1y6 2	2y772	2y474	2y244	2yy- 0	1U26	ql w
. rbAm	164 1	4716-	4002S	4017y	4067E	1US-	ql w
. rbAm	164 2	1701-	1ESy0	1E2S0	17EE-	1U-	ql w
HsOoPAm	16S 1	y- 6S7	y4y7S	y- 0E-	y- EE-	SUE6	ql w
HsOoPAm	16S 2	2yy- 7	26122	2y4E4	2y017	1U6	ql w
9 oPmAm	16y 1	1SS7646E	1S111612	EESy0ES	1SS- 4624	1U12	ql w
9 oPmAm	16y 2	4101ESy	4S02277	412Syy4	4121y72	1U21	ql w
DrOAm	11y 1	02EE14y	0222210	0SE17S1	02S4- 77	1U4y	ql w
DrOAm	11y 2	E406y2	ESy70-	E42170	E- 1ES4	2U44	ql w
Don	y4 2	26- S- 77	2602702	2y446EE	261yE76	2UyS	ql w
Don	y6 2	47E- 227S	40620- 6y	466- 2E6E	400- S701	2U42	ql w
Don	y0 2	114S6E0	114- ySE	111760E	11- 42Ey	1U2S	ql w
KrhI &on	7- 1	- y4	- - 2	276	- 24	1SU6y	ql w
LesO	2S6 1	- E- 226	- EE- SS	- 7y70S	- E20EE	1U01	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- 24- y0	- 2- 7E2	- 21E- 4	- 2- - E4	SU4S	ql w
LesO	2S7 1	1y16ES4	1y46761	1y17002	1y20y1-	1U1S	ql w
LA&GAum	6 1	2677726	26- 664E	26Sy7S0	264- 061	1UyE	ql w
5 sgnewAum	24 2	0Sy724	014- S7	012- 21	01S710	SU62	ql w
5 sngsnewe	yy 2	4E212E	47y6E7	47246S	476062	1US1	ql w
5 oPbOenum	E4 1	10y4y	100S-	10662	106- 0	SU40	ql w
5 oPbOenum	Ey 1	607y	6- E-	606S	6646	- U S	ql w
5 oPbOenum	E6 1	E0Ey	E- 27	E712	E64y	2U7y	ql w
5 oPbOenum	E0 1	4- 10	4- - 4	4Sy1	42- 4	- U06	ql w
5 oPbOenum	E7 1	11SE6	1S7S4	1S446	1S072	- US2	ql w
NeoOhmAum	1yS 1	1S10y6	1S- 0yE	1S2702	1S20E6	SUE7	ql w
NeoOhmAum	1yS 2	- 1y00	- 1601	- Sy- 1	- 126S	2US2	ql w
NAqkeP	6S 2	217E0	221S4	2177S	21E6S	SUy0	ql w
8 GowI Goruw	- 1 2	0- 6E	0S1S	6E7y	0121	- US1	ql w
8 o&swwAum	- E 2	4E4SSS	yS40S7	4E2ES0	4E02Sy	1U 1	ql w
CGoOAum	1S- 1	02- 4676	0- 2- SS-	0S642- 1	02S0- S0	1U7-	ql w
CGoOAum	1S- 2	- 2- 7SS2	- S70- 02	- 2- S- - y	- 17y2- 6	2U66	ql w
pqsnOAum	4y 1	40- - - 17	46EE176	44Ey7y1	464207y	2U00	ql w
pqsnOAum	4y 2	14410y	1- 60- E	141667	14S761	2U6E	ql w
pe&enAum	72 1	1y6	172	222	170	10U7-	ql w
pe&enAum	00 2	1S0	1S0	12-	112	7Uy0	ql w
pe&enAum	07 2	E6	7E	7E	E1	4U42	ql w
pAAqon	27 1	E02S17E	E0- 47- E	E7- - 04S	E062E2-	SU6-	ql w
pAPer	1S0 1	- 2SS	- 7S1	- 0E2	- yE7	EUy0	ql w
pAPer	1SE 1	- 610	- 7E2	- - 06	- 627	0U1-	ql w
poOAum	2- 2	614Sy	62S0-	6S66S	61- 7S	1U1y	ql w
p&on&Aum	76 1	104277	16E- 61	10yy67	10- S02	1U7E	ql w
p&on&Aum	77 1	161- 2- 0	1y0Sy- 0	16Sy716	1yE6y- S	1U4-	ql w
pulPur	- 4 1	2E7y40	2E02- y	2E- 6S6	2E6462	SU76	ql w
i erbAum	1yE 1	1S2yE167	1S2y6Ey6	E0467y4	1SS706yE	2UE-	ql w
i erbAum	1yE 2	411EE2-	- E27y70	4S71404	4S4- - 27	2UyS	ql w
i GsPAum	2S- 1	2142	2- 74	2- yE	22Ey	yU0E	ql w
i GsPAum	2Sy 1	yy67	y4S1	y- S1	y424	2U47	ql w
i A	117 1	1- 64E	12EE7	1- - 24	1- - 2-	2U44	ql w
i A&snAum	40 1	E2ES1	E62E7	E4- - y	E4y11	1U7S	ql w
MrsnAum	2- 7 1	626Sy	6- 7Ey	64471	6- 66S	1Uy1	ql w

Reviewed By:Bin
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Inst Id :P8

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Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFy7	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	6y44y	64441	6- 47-	644y0	1Uy2	ql w
Y&erbAum	102 1	1yS- 4	1412y	1- 6EE	14276	4U00	ql w
Y&erbAum	102 2	66S2	0S7S	66- S	600S	- UE6	ql w
Y&erbAum	106 1	1S2E6	1S22E	1Sy- S	1S- y2	1Uy2	ql w
Y&erbAum	106 2	1y20S	1y- 71	1y0- 0	1y46-	1Uy7	ql w
Y&&Aum	7E 1	1- 722- 7y	1- 720y16	1- S1y116	1- yyySS6	- U4y	ql w
Y&&Aum	7E 2	1- 27S- 1	12y76EE	1- S- 770	12E6702	2U01	ql w
ZAnq	66 2	02E- S	040yE	0- 46E	0- 01E	1U27	ql w
ZAqonAum	ES 1	- 7y12	- 711E	- E171	- 76S4	1UJE	ql w
ZAqonAum	E1 1	70S-	77y-	7y27	76Ey	1U70	ql w

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Lsb:psmI Re:D :J	3 - 447 S0	Dw&umne&Nsme:J	8 7
RFen&psmI Re:D :J	5 9 SFyh	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	0hS206	07y- 1y	0h- 646	07h046	SUy-	ql w
cn&AmonE	121 1	41y1	42h2	40- 4	4- h2	6Uh-	ql w
crwenAq	0y 2	- h- 6	- hS1	4S4S	- hyh	1U7-	ql w
BsrAm	1- y 1	- h- - 42	- h1100	- hS4h-	- h1601	SU7	ql w
BsrAm	1- 0 1	676071	0SS21y	6hhS20	6hy- 41	1US0	ql w
BerEFAm	h 1	2744	27hy	2771	270-	SUh2	ql w
BAmu&G	2Sh 1	6h7S02h	02626hh	01h- 76-	014y064	2US6	ql w
BAmu&G	2Sh 2	- 21y144	- - 1077S	- - y66y2	- 2h6yyh	2U22	ql w
BromAne	71 1	7S1h	72h4	h20S	7y27	0U01	ql w
RsOmAm	1S7 1	277	- 21	201	2h-	7U6h	ql w
RsOmAm	1S6 1	44- 4	4- 60	4S10	420-	yU24	ql w
RsOmAm	111 1	- h17	- 0y4	- 7SS	- 724	2U2S	ql w
RsRqAm	4- 1	- 1610h	- 17yy0	- 162- S	- 16h77	SU4-	ql w
RsRqAm	44 1	y- 64- 01	y- 046h4	y2h6S46	y- 4yS- 0	SU7S	ql w
Rsrbon	12 1	47- 7S4h	4hh177y	yS742y7	4h01- h0	2UyS	ql w
Rsrbon	12 2	6S6h2	61- 70	6121h	611SS	SUyh	ql w
RGFrAne	- y 1	170h0S60	216hS22h	2- - 7477h	212hS027	1SUhS	ql w
RGFrAne	- y 2	10- SSh	10041S	171740	100422	2U4h	ql w
RGromAm	y2 2	y2- yh	yShyS	y1yy2	y1621	1U0	ql w
RobsR&	yh 2	46- 6y	402- 7	4y04-	4644h	1U62	ql w
RoI I er	6- 2	h1- 72	h1- 6y	h1S4S	h1262	SU21	ql w
t EwI rowAm	1y6 1	0641h	0602h	00hhy	00S47	1US7	ql w
t EwI rowAm	1y6 2	- 1771	- 1771	- 1S6-	- 16S7	1UyS	ql w
. rbAm	164 1	y740S	yhh1S	yhhy2	yh444	1U42	ql w
. rbAm	164 2	2- y17	2- h2y	2- 611	2- 67y	SUhS	ql w
HsOoFAm	16S 1	6y7- h	60hS0	6727-	60- 4-	1Uhy	ql w
HsOoFAm	16S 2	- 1260	- 1y- 0	- 1- 00	- 1- h4	SU4-	ql w
9 oFmAm	16y 1	1S2y4hh-	h7h4711	hhSh47S	1SS1h061	2US-	ql w
9 oFmAm	16y 2	4S6S0S6	41h7y2-	42y67S1	4102S1S	2U41	ql w
DrOAm	11y 1	010- 1y-	02Sh7h0	0200126	022SSyh	SU0-	ql w
DrOAm	11y 2	h61S26	h42677	hy211S	hy1h41	SUh6	ql w
Don	y4 2	- S2ShhS	2h- 101y	2hyy2- S	2h6h- 12	1Uy6	ql w
Don	y6 2	y- 4hS7h6	y- 41S- SS	y2- 0y6- h	y- Sh2207	1U10	ql w
Don	y0 2	1- 6h0hy	1207S76	12yyS- 7	1- SSh0-	4U60	ql w
KrEI &on	7- 1	- - y	- - y	- 16	- 2h	- U2h	ql w
LesO	2S6 1	402147	47hS1y	47yh17	472- 6S	1U76	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S0	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyh	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- hhh- 0	- h- 042	- hh7y6	- h074y	SU7h	ql w
LesO	2S7 1	170- y4S	17h016-	1770076	177616-	SU6-	ql w
LA&GAum	6 1	2640646	264- 41S	262y60-	26- 7hSh	SU44	ql w
5 sgnewAum	24 2	70741-	70- hhS	76h- yS	70- h17	SUy2	ql w
5 sngsnewe	yy 2	0667S2	04602y	042467	0y1hh7	1U0-	ql w
5 oPEbOenum	h4 1	14616	16S06	16117	1y6S4	yU47	ql w
5 oPEbOenum	hy 1	6S26	y04-	62S2	yhhS	- U76	ql w
5 oPEbOenum	h6 1	7707	7027	7hy-	77y-	1U2h	ql w
5 oPEbOenum	h0 1	- - 60	4160	- 7- 4	- 0hS	1SU61	ql w
5 oPEbOenum	h7 1	h4y4	1SSS4	h74y	h067	2UhS	ql w
NeoOEmAum	1yS 1	1- - - 16	1- Sh- h	1- S1- 2	1- 146-	1U26	ql w
NeoOEmAum	1yS 2	- 70y6	- h2S0	- h477	- h1y1	SUh4	ql w
NAqkeP	6S 2	20074	201hh	20S7h	20- y7	1U-6	ql w
8 GowI Goruw	- 1 2	4h4-	y2- 4	y1Sh	yShy	2U70	ql w
8 o&swwAum	- h 2	42S011	4104- 2	41h7y7	41h- - -	SU41	ql w
CGoOAum	1S- 1	017y660	02- S116	0S61174	01y7h7h	1U22	ql w
CGoOAum	1S- 2	- 201y7h	- 2y- ySh	- 2y2- S1	- 2yh1- -	SU-	ql w
pqsnOAum	4y 1	47S66S7	46- 0hy-	46- 467-	46h- S71	2U1S	ql w
pqsnOAum	4y 2	14447y	144y76	146hS0	14y- 26	SUh4	ql w
pe&enAum	72 1	2SS	106	2S1	1h2	0U2	ql w
pe&enAum	00 2	140	14S	16-	1yS	7US1	ql w
pe&enAum	07 2	11h	12y	11S	117	6U4S	ql w
pAAqon	27 1	1246S- 2S	126Sy1h0	12y2- - 11	12y2h6Sh	SUy7	ql w
pAPer	1S0 1	yhy1	6- - y	y767	6Sy1	4U11	ql w
pAPer	1Sh 1	yy4-	y- - y	yh67	y61y	yU0y	ql w
poOAum	2- 2	1124S7	112610	111hh0	112- 41	SU27	ql w
p&on&Aum	76 1	1h- 114	1h- 2S1	1h0177	1h4yS1	1U2S	ql w
p&on&Aum	77 1	106h2h2	1064S4y	107Shy4	10014- S	SU4h	ql w
pu&Pur	- 4 1	272y04	2722y7	274h6S	27- 264	SUy2	ql w
i erbAum	1yh 1	1Syyhyy1	1S4y2y6h	1S217h- -	1S41S- y1	1U60	ql w
i erbAum	1yh 2	4S04yh4	4ShyS14	41066hy	411y4- 4	1U-1	ql w
i GsPAum	2S- 1	2642	2742	2642	20Sh	4U26	ql w
i GsPAum	2Sy 1	6- 6S	67h4	02h4	674h	6U74	ql w
i A	117 1	11SSy	112h0	11S01	11124	1U-7	ql w
i A&snAum	40 1	0116S	01- 6h	011h4	01241	SU16	ql w
MrsnAum	2- 7 1	yh- y6	61424	yh04h	6S100	1U7-	ql w

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Lsb:psml Re:D :J	3 - 447 S0	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFyh	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	041S4	0- 410	0- S6h	0- y- S	SU02	ql w
Y&erbAum	102 1	10412	104S4	1060h	104h7	SUhS	ql w
Y&erbAum	102 2	720y	7y40	7771	7y67	- Uy4	ql w
Y&erbAum	106 1	12S7h	1- - 1y	1- S- 2	12712	yUS1	ql w
Y&erbAum	106 2	1667-	1607-	10174	1677-	1Uy0	ql w
Y&&Aum	7h 1	1- h1y- 26	1- 62S17y	1- yy0S07	1- 6h0y- S	1U4S	ql w
Y&&Aum	7h 2	14yS2h4	1- - 7yy4	14112h2	14SSS40	4USy	ql w
ZAnq	66 2	6h114	60h4y	6h167	67042	1USS	ql w
ZAqonAum	hS 1	- - 67-	- - S71	- - y24	- - 4- S	SUh-	ql w
ZAqonAum	h1 1	0144	0S20	0y- 6	02- y	- U67	ql w

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	aSaS- 1	aS2- a4	4hh- aS	aS224a	SM40	dDl
qCTb nCE	121 1	647a	67a2	6a20	6621	- N8-	dDl
qpl r Ccl	0a 2	- 160	- 14h	- 2- S	- 172	1M4	dDl
Bwpcmb	1- a 1	- aS16h	- 4h4- S	- a021-	- a220S	1M42	dDl
Bwpcmb	1- 0 1	61- h06	6- S44h	626h01	62- 0hh	1Mh	dDl
Br pE8mb	h 1	40S1	4a76	4674	46a0	1M-	dDl
Bdb mTG	2Sh 1	01aS1S-	046072S	66h0110	01SaS1-	aM4a	dDl
Bdb mTG	2Sh 2	- - 46274	- - 1- - 76	- 22h6- 2	- 2h64- 4	1M72	dDl
Bpmb cCr	71 1	026S	02- a	0a61	0- a2	2M46	dDl
5 wob cmb	1S7 1	22h	27-	20h	264	11M42	dDl
5 wob cmb	1S6 1	4S10	46a1	- hS1	41hS	hM04	dDl
5 wob cmb	111 1	2610	2a42	2aS-	2aa4	2M46	dDl
5 w8lcmb	4- 1	177274	176767	1hS2- 0	17746-	SM1S	dDl
5 w8lcmb	44 1	- 10a066	- 22a617	- 166- - 2	- 17h2- 7	1N8S	dDl
5 wpenC	12 1	4hh7221	a114- 0h	a- Sa127	a1- h24-	- N82	dDl
5 wpenC	12 2	6- 064	61a6-	6212-	6247-	1M7-	dDl
5 G8hpCr	- a 1	1hh11S- 0	2- 24740a	2a1h- 7S1	220744- 7	11M0-	dDl
5 G8hpCr	- a 2	17a140	1766a1	1h101a	1707- 7	1M7-	dDl
5 Gpmb cmb	a2 2	27S17	204SS	26017	20- 0h	2M0	dDl
5 new8T	ah 2	2hSa-	27a02	276hh	2700a	SM70	dDl
5 nDDr p	6- 2	722S-	71h17	7S161	71420	1M6	dDl
&El Dpnl cmb	1a6 1	haah2	ha102	hhSa7	h66S0	2M21	dDl
&El Dpnl cmb	1a6 2	- hS0S	- 7a02	- 71a7	- 76SS	1M17	dDl
Fpecmb	164 1	67206	60640	6hS21	67- 1a	1N81	dDl
Fpecmb	164 2	26a0-	266h4	2ah- a	264S1	1M44	dDl
Hwon8Cmb	16S 1	0hSa1	71122	71aSS	7Saa7	1M64	dDl
Hwon8Cmb	16S 2	- 7SS0	- 6a74	- 6- 2-	- 6h01	2M4a	dDl
y n8b cmb	16a 1	1SS7a4h-	1S62- 7ha	h26h624	hhh- SS4	6M72	dDl
y n8b cmb	16a 2	4- - 1472	421477h	42Sh12a	42a17- 2	1M62	dDl
tCocmb	11a 1	02212- 7	0661a0a	67a061h	0246711	aM46	dDl
tCocmb	11a 2	ha0a20	haah- 4	h4- - 4S	ha2260	SM72	dDl
tpnC	a4 2	2S- 12h2	2S6Sh14	2S46420	2S46211	SM02	dDl
tpnC	a6 2	- 6472270	- 6h2247-	- 60S760S	- 60S447S	SM8S	dDl
tpnC	a0 2	7ah111	76aa1a	76a7S1	76- 406	SM44	dDl
KpEDTnC	7- 1	- - 0	- - a	- 24	- - 2	2M21	dDl
Lr wo	2S6 1	ah6440	ah76S0	6S4aSh	ahh7aa	SM0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 S7	tCl Tpmb Cr T.uwb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU6S	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :uwb r :J	1S2q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	4h21- -	4hhS- 1	aSSS24	4h0S6-	SM16	dDl
Lr wo	2S7 1	2- ah600	2- 46- S4	2- 62007	2- a62a-	SM10	dDl
LdTGmb	6 1	2a71226	2022S07	24- - 0S7	2a0hSS4	aM4h	dDl
9 wgCr l mb	24 2	4- h1- a	4- - h7S	4- h727	4- 0640	SM0-	dDl
9 wCgwCr l r	aa 2	6716ah	67- 06-	6711aa	6721h2	SM2S	dDl
9 n8Eeor Cmb	h4 1	- aa2h	- 6S7h	- 6h66	- 61ha	2M8S	dDl
9 n8Eeor Cmb	ha 1	h10S	76ha	70S-	77a6	- M80	dDl
9 n8Eeor Cmb	h6 1	1427-	14h10	14- - -	14a11	2M4-	dDl
9 n8Eeor Cmb	h0 1	4017	4h- 4	4067	47S0	2M6	dDl
9 n8Eeor Cmb	h7 1	14S- 2	14241	1- 4hS	1- h21	2M07	dDl
u r noEb cmb	1aS 1	167a6S	166h14	167a20	167SSS	SM46	dDl
u r noEb cmb	1aS 2	4h467	aS4h2	4hS6-	4h604	1M47	dDl
u cdkr 8	6S 2	1- 1Sh	1- SS6	1- 1S-	1- S0-	SM44	dDl
NGhl DGhpml	- 1 2	4206	4Sah	44ah	426a	4M0S	dDl
NnTwl l mb	- h 2	441614	44S0aa	4- a27a	4- h217	SM07	dDl
. Ghocmb	1S- 1	676S12a	0aS022S	64h61ah	6ha4aS1	0M6	dDl
. Ghocmb	1S- 2	- 247626	- 2SS4h-	- 202760	- 24S662	1M14	dDl
l dwCocmb	4a 1	4620202	aSS60hh	4- h12h-	460a121	6M64	dDl
l dwCocmb	4a 2	14a17S	14- 7Sa	14S1aS	14- S4a	1M72	dDl
l r 8 Cmb	72 1	2- a	1h2	2Sa	211	1SM6	dDl
l r 8 Cmb	00 2	1a0	21S	1a0	104	10M6a	dDl
l r 8 Cmb	07 2	1- 6	12h	1- a	1- -	2M74	dDl
l 8dnC	27 1	0h6ahh7	7S21S2S	0h42a- S	0h06a16	SM41	dDl
l 8vr p	1S0 1	1- 1S0	1- 2- 2	1- - 4S	1- 226	SM77	dDl
l 8vr p	1Sh 1	1240-	1- a24	12471	12726	4M01	dDl
l nocmb	2- 2	- ha77	- 766h	- hSa-	- h1S-	1M17	dDl
l TpnCTcmb	76 1	142a4h	1427Sh	14ah0a	14- 007	1M-	dDl
l TpnCTcmb	77 1	12- 6106	124S40a	122aa10	12- 4Sa6	SM62	dDl
l m8mp	- 4 1	27126a	2720a-	27S111	271- 06	SM40	dDl
Ar pecmb	1ah 1	hh- a0- h	11S414a0	h42h4hh	1S1- aa6a	7M-	dDl
Ar pecmb	1ah 2	41- 060h	4Sa12a4	4S- h1h2	4S06S42	1M2	dDl
AGw8mb	2S- 1	20aS	2aSS	2660	26- h	4M72	dDl
AGw8mb	2Sa 1	64- a	6S20	627a	624h	- M1	dDl
AdC	117 1	2SS04	1h- a6	2S1hh	1h706	2M2h	dDl
AdTwCmb	40 1	2- 22h2	2- 2- 00	2- S04-	2- 17S4	SM4S	dDl
RpwCmb	2- 7 1	1S00a0	1S- 411	1S4S00	1SaS71	2M-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	aSS- 1	4h760	4hh4S	4hh46	SM16	dDI
YTTr peomb	102 1	170h0	1h- 47	17221	1707h	- N8S	dDI
YTTr peomb	102 2	hSh2	7671	7h2S	77h7	2M2	dDI
YTTr peomb	106 1	141- -	12h72	1- 0a0	1- 624	4M1	dDI
YTTr peomb	106 2	10127	166h4	160Sa	16742	1M40	dDI
YTTpomb	7h 1	14S4- 21h	14h16111	12h- 100h	1- h6- 0S-	0M12	dDI
YTTpomb	7h 2	1- a4ahS	14S461-	1- - 2a77	1- 6- h- S	2M01	dDI
ZdCd	66 2	72- S4	726- 6	7Sa24	71721	1Mh	dDI
ZqpdnComb	hS 1	76721	7- 47-	7- 1aa	74476	2M4S	dDI
ZqpdnComb	h1 1	17677	177aa	17046	1706-	SM4a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pIl iClJa	wl P8 l N
Ll r JDl e t NpJ&TJaJ	3 - 447 S:	& PIlbe . piJml e pJa	u7
9 Np. iJDl e t NpJ&TJaJ	y h SM61	TdNiqC. JM OlClJa	1
Tl ipJAJcqe pJdOobdqpnJa	2S2- S0 12J10asSaS4	Tl il MdpJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	7- 01- -	7- 2: s7	72: 22-	7- - 1Ss	SR47	Ol P
d. iqe C. E	121 1	2s0s7	24s47	2s: 60	2s424	- RS1	Ol P
dIPp. qO	0s 2	124s0	1244s	12s67	124: S	SR34	Ol P
Bl dpe	1- s 1	042677	026402	026- : 6	0- 17s2	1R27	Ol P
Bl dpe	1- 0 1	1- 1- : 77	1- SS- 46	1- Sss61	1- S66- 2	SR3-	Ol P
BplENpe	: 1	6S1-	6221	61- 2	6122	1R0S	Ol P
BqPe biG	2S: 1	6772126	02S0: : 4	6: 24- S4	0SS47S7	2R3-	Ol P
BqPe biG	2S: 2	- 264- 7-	- 26- s- 6	- 214ss-	- 2404: 1	SR77	Ol P
BlCe q p	71 1	0ss2	7S11	07: 4	071:	- RSs	Ol P
9 l ne dpe	1S7 1	- 42	- 77	- 42	- s0	0R41	Ol P
9 l ne dpe	1S6 1	4- S:	4ss1	4s17	44s:	2R 4	Ol P
9 l ne dpe	111 1	- 060	- 07S	- : 06	- 741	- RS4	Ol P
9 l NOdpe	4- 1	- 7s17s	- : 2S2:	- 7: 241	- 7771:	SR7:	Ol P
9 l NOdpe	44 1	6s7S76-	66ss167	6s700s:	66S0: - S	SR62	Ol P
9 l lr C.	12 1	- 667217	- 7S- 4: :	- 7- 41S:	- 0676S:	2R 4	Ol P
9 l lr C.	12 2	46- S0	4s: 64	40174	4647s	1R s	Ol P
9 GNOlq p	- s 1	1: - 4624S	22666: 64	24Sss26s	22S2272-	1SR:	Ol P
9 GNOlq p	- s 2	107S: 4	1722s6	174201	171s4S	1R04	Ol P
9 GlCe dpe	s2 2	610s:	61100	61S1-	61- 16	SR64	Ol P
9 Cr l Nl	s: 2	4- 7- 0	4- 127	44s: 6	4- 7s4	1R60	Ol P
9 Ct pl	6- 2	1: - S: -	1: - 0: s	1: - - s6	1: - 41s	SR47	Ol P
TEPt lCPdpe	1s6 1	1- - 12s	1- 1267	1- 2: S:	1- 24- 4	SR00	Ol P
TEPt lCPdpe	1s6 2	s4772	s- s: 4	s40- s	s44S4	1R S	Ol P
Ulr dpe	164 1	: - 0: 0	: s670	: - s- 7	: 4- 41	1R24	Ol P
Ulr dpe	164 2	- 0s: 0	- 0771	- 016s	- 0s47	SR 6	Ol P
Hl nONqdpe	16S 1	111S07	11S17S	111000	111S12	SR02	Ol P
Hl nONqdpe	16S 2	s12ss	s11s1	s1760	s1424	SR0s	Ol P
h ONe dpe	16s 1	: 41274-	1SS17s67	1S1- 01- -	: 7s6171	- R 4	Ol P
h ONe dpe	16s 2	4- 1S424	42s7Ss0	4- S- S: S	42: Ss24	SR66	Ol P
& ndpe	11s 1	60- 6S6s	017: s06	0270- 22	0S0S: 77	4R16	Ol P
& ndpe	11s 2	: s4- 44	: - 7s: :	: 4: 1: 2	: 40- 0:	SR7s	Ol P
&C.	s4 2	- 4s201s	- 4S27s1	- 4s: Ss4	- 4- 72S0	SR S	Ol P
&C.	s6 2	621SS7- s	6272: s72	610617: 0	622- S001	SR77	Ol P
&C.	s0 2	1621000	162S6S7	161: s41	162S642	SRS0	Ol P
KlEt iC.	7- 1	- : s	- 60	- 04	- 0:	- R71	Ol P
Lpl n	2S6 1	1: s4747	1: - S070	1: 06- 4S	1: s- : : 2	1R10	Ol P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iCIJa	wl P8 l N
Ll r JDl e t Nb.J&TJaJ	3 - 447 S:	& FIlbe . piJml e pJa	u7
9 Nb. iJDl e t NbJ&TJaJ	y h SM61	TdbiqC. JM OCIJa	1
Tl ipJAJcqe pJdOobdpnJa	2S2- S0 12J10asSaS4	Tl il MdbJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
LpI n	2S0 1	14s4640	146- 444	14s600:	14s72: S	SR 1	Q P
LpI n	2S7 1	046- 270	0s06604	0- 7: : 74	0406647	1R26	Q P
LqGdpe	6 1	2411- 17	26- 0: - 2	26- : 174	2s62711	sR12	Q P
y l g. pPdpe	24 2	7: 17- 1	70: 4: 4	776- 7:	77s: Ss	SR0S	Q P
y l . gl . pPp	ss 2	12- SS2S	122S02s	12- S422	1220Ss6	SR4s	Q P
y CNEr np. be	: 4 1	4: 471	4: 7: 7	47ss-	4: - 1S	1R4S	Q P
y CNEr np. be	: s 1	26- 26	26: 6S	26s: -	26626	1R2S	Q P
y CNEr np. be	: 6 1	- 4- S2	- sS2:	- s- 2S	- 4774	1R3S	Q P
y CNEr np. be	: 0 1	16420	16420	1044s	16066	- Rs1	Q P
y CNEr np. be	: 7 1	4262s	42: : -	4- 217	42: 4s	SR0S	Q P
mpOnEe dpe	1sS 1	220Ss2	2- S110	2- S1- 2	22: 1S1	SR00	Q P
mpOnEe dpe	1sS 2	6: S1S	67102	67ss1	67s07	SR61	Q P
mqDkpN	6S 2	2s4S-	244S7	24: - 2	24: 14	2RSS	Q P
uGCPt GCIbP	- 1 2	4274	4S06	4- S1	422S	2R.0	Q P
uCIl PPdpe	- : 2	4: 2: 02	47- 672	4: 1240	47: - SS	1RS1	Q P
FGCndpe	1S- 1	6006S0S	02s- S- 4	0S7s2- 1	0S- 7112	- R44	Q P
FGCndpe	1S- 2	- 2: S240	- 2s66s:	- 227: 0S	- 2s7626	SR.4	Q P
DCI . ndpe	4s 1	44s- S10	4017442	40264: 7	46- 26s2	- R6	Q P
DCI . ndpe	4s 2	14- s0-	144: 11	14- 742	1441S:	SR4:	Q P
DpNb. dpe	72 1	16:	20S	240	22:	2- R24	Q P
DpNb. dpe	00 2	22S	2s0	2sS	242	7RS6	Q P
DpNb. dpe	07 2	1s4	101	16-	16-	sR2-	Q P
DqNDC.	27 1	02: 416:	0- s: 4- 0	0421441	0- s7- 4:	SR76	Q P
DqNpl	1S0 1	1: 671	2SS- 2	1: ss6	1: 0s6	1R2s	Q P
DqNpl	1S: 1	1: 1ss	1: 140	1: 1: 0	1: 160	SR14	Q P
DCndpe	2- 2	70- 27	7s: 01	76: 16	760- 7	SR7S	Q P
DilC. idpe	76 1	- 11461	- 1s6- 6	- 1: 6s2	- 1ss7-	1R S	Q P
DilC. idpe	77 1	2: 1700S	2: S1471	27220S:	277S: 70	1R07	Q P
DbNbl	- 4 1	276676	277007	2: 1270	277: 10	SR7S	Q P
cplr dpe	1s: 1	: 762260	1S2s04S:	1S- ss1S0	1S1s7261	2Rs0	Q P
cplr dpe	1s: 2	4211067	4172S6S	4116706	410S2- s	1R16	Q P
cGl Nbpe	2S- 1	- 060	- 726	- : s1	- 747	2R44	Q P
cGl Nbpe	2Ss 1	: s: s	: 212	: 662	: 4: S	2Rs6	Q P
cq	117 1	ssS11	s- 12:	s- sSs	s- 772	1R7s	Q P
cql . dpe	40 1	2s470-	2s61s2	24042s	2s2710	1R76	Q P
5 ll . dpe	2- 7 1	11621s	11s666	116: 12	116264	SRs4	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iCIJa	wl P8 l N
Ll r JDl e t Np.J&TJaJ	3 - 447 S:	& FIlbe . piJml e pJa	u7
9 Np. iJDl e t Np.J&TJaJ	y h SM61	Tdpiq C. JM OCIJa	1
Tl ip JA.Jc e pJdOobdpnJa	2S2- S0 12J10asSaS4	Tl il MdpJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
Vl . l ndpe	s1 2	: - 2S1	: 261S	: 1172	: 2- - 1	1R12	Ol P
Yiiplr dpe	102 1	2606:	201- 0	20477	201- 1	1R 2	Ol P
Yiiplr dpe	102 2	12: 62	12: s0	1200-	127: 0	SR7-	Ol P
Yiiplr dpe	106 1	17s40	10: 46	17- : 6	172: 6	1R01	Ol P
Yiiplr dpe	106 2	2Ss44	1: 606	1: 6S:	1: : 4-	2R61	Ol P
Yiildpe	7: 1	1- s- 07S2	14- 4S2- 6	1410: 700	14S1: - Ss	- RS-	Ol P
Yiildpe	7: 2	146- : : -	14s: 466	14- 072S	14s- 06S	SR 6	Ol P
Zq O	66 2	12s644	1276: 2	1204: S	120206	1R21	Ol P
ZdOC. dpe	: S 1	: - S6S	: S71-	: 200s	: 2216	1R -	Ol P
ZdOC. dpe	: 1 1	2S6S0	2Ss66	21- s:	2S744	2R14	Ol P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Nd:&T:J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Nd. i:DI e t Nd:&T:J	y h SM62	TdbiqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- S0 12:10Ja2Jas	TI il MdbNd:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
dINe q dpe	20 2	sS4422	772S44	77421s	7sS227	1Rs	OI P
d. ioe C. E	121 1	6044	6667	6220	6a46	4R20	OI P
dIPp. oO	0a 2	6224	6S46	6SS6	6Ss2	1R31	OI P
BI Idpe	1- a 1	a6a64S	a67S4s	aa67- s	a6- aSs	1RSa	OI P
BI Idpe	1- 0 1	s70S1s	s6sa24	1SS2021	s76422	1R67	OI P
BpIENdpe	s 1	4221	4466	44- 1	4- 0-	- RS-	OI P
BqPe biG	2Ss 1	0277244	6s24441	67744s1	0S- 2- s2	- R16	OI P
BqPe biG	2Ss 2	- S60440	- 2s7661	- 1s6s11	- 17060-	- R64	OI P
BIOe q p	71 1	6200	6117	a76S	6S7a	- R46	OI P
9 I ne dpe	1S7 1	1s6	1s6	17-	1s2	- R30	OI P
9 I ne dpe	1S6 1	44- 4	4026	41as	444S	6R 7	OI P
9 I ne dpe	111 1	2S1a	226a	2146	2142	aR74	OI P
9 I NOdpe	4- 1	1- 2- 420	1- 1sa2S	1- S4646	1- 1a764	SR0a	OI P
9 I NOdpe	44 1	2S7s1670	2122s22a	2114aSS6	21S7764S	SR7-	OI P
9 I Ir C.	12 1	47107a2	a11s- 71	aS076s4	aSSa- Ss	- R20	OI P
9 I Ir C.	12 2	62642	61a2s	6124a	617S6	1R1s	OI P
9 GNOIq p	- a 1	1saSas70	22- 7S1s1	24S42201	21s061aS	1SR44	OI P
9 GNOIq p	- a 2	1072- 7	172600	17a2SS	172S- 7	1R34	OI P
9 GIOe dpe	a2 2	aa617	a47sa	a- S07	a4a- S	2R4S	OI P
9 OrI NI	as 2	644a2	64- S4	64- aa	64- 0S	SR12	OI P
9 Ot pI	6- 2	12S20s	11s4- 7	11s- 10	11s607	SR44	OI P
TEPt IOPdpe	1a6 1	s6- - 1	s62s0	sa1S4	sas11	SR0-	OI P
TEPt IOPdpe	1a6 2	4S- s1	- s40a	- ssaS	- ss- s	1R1a	OI P
UIr dpe	164 1	7- 2sa	070s2	0ssa7	7S672	2R3S	OI P
UIr dpe	164 2	- 16S1	- 2- 4s	- 1601	- 1704	1R S	OI P
HI nONq dpe	16S 1	7- s22	7aa7-	74S24	74a1S	1R1S	OI P
HI nONq dpe	16S 2	4Sa07	- 7746	- s46a	- s6- S	2R21	OI P
h ONe dpe	16a 1	1S06a26s	ssa4aSS	1S21S624	1S- 1S1- 1	4RS2	OI P
h ONe dpe	16a 2	4Sas7s-	4- 6a266	410s4s0	42S1aa2	- R66	OI P
& ndpe	11a 1	0407a42	02440s0	02441s7	0- 22a1-	1R7a	OI P
& ndpe	11a 2	sSs- 0s	s4s066	s- - s62	s- 1S- 6	2R1s	OI P
&C.	a4 2	4Sa2s7a	- s7S0sS	- s041sa	4SS26a0	1RSs	OI P
&C.	a6 2	04S701- a	02s0S2a0	0- S66a24	0- - 046- s	SR74	OI P
&C.	a0 2	17ss116	1701- 6-	17716- 0	1774S- 7	SR04	OI P
KIEt iC.	7- 1	- as	- a6	- 20	- 40	aRSS	OI P
LpI n	2S6 1	4- 6142	4- 6s71	440SSa	44SS42	1R 0	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Np. i:DI e t Np:&T :J	y h SM62	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:10Ja2Jas	TI il MdNp:mI e p:J	1S4dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	- 62S41	- 62020	- 64S- 1	- 62s- -	SR27	OI P
LpI n	2S7 1	1014aa1	102- sS1	10420S-	1020Sa2	SR7-	OI P
LqiGdpe	6 1	20S2SS4	26174- 2	26S66- 2	2642- a6	1R30	OI P
y I g. pPdpe	24 2	41a1607	4Sa6- SS	414- S- S	4110SS-	1R27	OI P
y I . gI . pPp	aa 2	162- - S0	16S26s6	16S4244	161SS72	SR01	OI P
y CNEr np. be	s4 1	1sS7s	1s07s	2S26a	1s014	- RSS	OI P
y CNEr np. be	sa 1	11764	11saa	126s7	12102	- R06	OI P
y CNEr np. be	s6 1	1a64-	1aS0a	1a1SS	1a20-	2R1S	OI P
y CNEr np. be	s0 1	046s	041S	0076	0aaa	2R30	OI P
y CNEr np. be	s7 1	17s77	2S147	2S- ss	1s74a	- R0s	OI P
mpOnEe dpe	1aS 1	1a0211	1a6- S0	1a7- - 0	1a027a	SR3a	OI P
mpOnEe dpe	1aS 2	46s7s	40- - S	40- 00	402- 2	SR4a	OI P
mqOkpN	6S 2	- 766s	- 07s4	- 7217	- 726S	1RS2	OI P
uGCPt GCIbP	- 1 2	aa- a	a4S1	4s17	a274	6R14	OI P
uCIl PPdpe	- s 2	aS146s	4s6- 7-	4s0sS1	4s7a74	SRa2	OI P
FGCndpe	1S- 1	0- 01asa	0S44070	6s1s141	0111741	- R27	OI P
FGCndpe	1S- 2	- S0166-	- 2122sS	- 16S7- 2	- 147261	2R26	OI P
DCI . ndpe	4a 1	472s6sa	466s- 47	460S01S	402- 2a1	1R3a	OI P
DCI . ndpe	4a 2	1- 0a46	146s74	14- ss4	142741	- R 7	OI P
DpNp. dpe	72 1	21S	2- a	26s	2- 7	12Rs	OI P
DpNp. dpe	00 2	100	2SS	220	2S1	12R44	OI P
DpNp. dpe	07 2	127	127	147	1- a	7Ra7	OI P
DqNqC.	27 1	11sa0S1a	12S6a0a-	12S627s0	12S27aaa	SRa2	OI P
DqNpI	1S0 1	- 7S1	4S06	42s2	4Sa6	6RS7	OI P
DqNpI	1Ss 1	- s10	41as	- 710	- s6a	4R4-	OI P
DOndpe	2- 2	1SS120	ss414	1SSas6	1SSS4a	SRas	OI P
DiIC. idpe	76 1	2s67s0	- S2s- -	- S- 641	- S11a0	1R2-	OI P
DiIC. idpe	77 1	20a- 6- -	2071aS0	20a104-	20622sa	SR6S	OI P
DbNbI	- 4 1	- - SSsa	- - as66	- 4271-	- - 62s1	1R7s	OI P
cpIr dpe	1as 1	1S721s64	1S1saa42	1S26S70-	1S426126	- R S	OI P
cpIr dpe	1as 2	- s606- s	4116S0-	4Ss4022	4Sas407	1R37	OI P
cGI NNpe	2S- 1	- 4Ss	- aS1	- - 42	- 410	2R -	OI P
cGI NNpe	2Sa 1	74- 6	7461	721s	7- 02	1Ras	OI P
cq	117 1	11s40	1107S	11s22	1177-	SR06	OI P
cqI . dpe	40 1	07616	076ss	006S2	07- S6	SR07	OI P
5 II . dpe	2- 7 1	7s101	7sa2a	767sS	77a27	1R62	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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LI r :DI e t Nd:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Nd. i:DI e t Nd:&T :J	y h SM62	Td iqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- S0 12:10Ja2Jas	TI il Mdd:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a1 2	s- 712	s- 0S1	s2s46	s- 476	SRaS	Q P
Yiiplr dpe	102 1	247a0	26- S2	26220	2a0sa	- R1a	Q P
Yiiplr dpe	102 2	12aS6	12S- -	11s11	121aS	2Ra	Q P
Yiiplr dpe	106 1	10- 12	100S4	10- a4	104a6	1R2-	Q P
Yiiplr dpe	106 2	17776	1ss1a	177a-	1s217	- R14	Q P
Yiild pe	7s 1	144Ss264	14S1- 6s6	142404Ss	1422- 4a6	1R4S	Q P
Yiild pe	7s 2	1- s22- s	14020- s	1- 4- - 62	14S207S	4R6	Q P
Zq O	66 2	776S1	7a707	7a00a	760a1	1R7a	Q P
Zd OC. dpe	sS 1	- 426S	- - S0-	- 4S60	- - 7SS	1R77	Q P
Zd OC. dpe	s1 1	7161	7- a-	04a2	0s7s	aR4	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:.J	3 - 447 11	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTI wb D8 :t&:.J	9 y SU6-	&8mTcnC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Jaa.Jaa	&wTwUd8 :u wb r :J	1Saq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
q8mb cCcmb	20 2	60467h	60S1- a	66a24S	60SS22	SM01	dDI
qCTb nCE	121 1	0611	671h	0aS2	0- 1S	aM70	dDI
qpl r Ccl	0a 2	611h	6S74	6S67	6ShS	SM4-	dDI
Bwpcmb	1- a 1	- 0Sh6S	- 017a6	- 7S01a	- 04a1S	1M44	dDI
Bwpcmb	1- 0 1	6ah4S4	6a72ah	602627	66- 4- S	1M2S	dDI
Br pE8&mb	h 1	2676	20S6	260h	26hS	SM4-	dDI
Bdl b mTG	2Sh 1	014h22-	6ha06S7	020h70h	0127hS-	2M20	dDI
Bdl b mTG	2Sh 2	- 1724h1	- - 207a4	- 246- 70	- 2a2244	2M24	dDI
Bpmb cCr	71 1	aaS1	aaS1	611S	a0S4	6M16	dDI
5 wob cmb	1S7 1	1h6	10a	17-	17a	aM67	dDI
5 wob cmb	1S6 1	46h-	41h2	44Sh	44- 1	aM06	dDI
5 wob cmb	111 1	1h0S	1022	1h2h	1704	0M1S	dDI
5 w8lcmb	4- 1	- - 7Shh	- - 0h06	- - 7S07	- - 7Sa1	SM82	dDI
5 w8lcmb	44 1	a0aaS61	a076SS2	a026- h1	a0aa717	SM42	dDI
5 wpenC	12 1	- 1hS1aS	- 172a12	- 244776	- 2Sa74h	1M86	dDI
5 wpenC	12 2	- 0hh2	- 7242	- 7700	- 7- 0S	1M1h	dDI
5 G8hpcCr	- a 1	2S61S427	2- 61Sh00	2aah20S6	2- 201- 0S	1SM07	dDI
5 G8hpcCr	- a 2	17076a	17711S	1h- aa6	17h744	1M6h	dDI
5 Gpmb cmb	a2 2	6770a	66722	660ah	6047a	1M07	dDI
5 new8T	ah 2	a4460	a- S0a	a- 604	a- 0- h	1M1S	dDI
5 nDDr p	6- 2	h4S46	h261-	h21SS	h2h1h	1M8h	dDI
&El Dpnl cmb	1a6 1	1S6h76	1S61- 7	1S0264	1S60h6	SM4a	dDI
&El Dpnl cmb	1a6 2	42126	4- 444	41- 20	422hh	2M4-	dDI
Fpecmb	164 1	001a7	06602	0a0a7	06a2h	SM1-	dDI
Fpecmb	164 2	- 1S- 6	2h0h-	277Sa	2h707	- M04	dDI
Hwon8Ccmb	16S 1	77S4S	70621	7614a	7026h	1M14	dDI
Hwon8Ccmb	16S 2	4SS4-	- h40a	- h706	- h0h7	SM0-	dDI
y n8b cmb	16a 1	1SS70a- 6	1SS6720-	hh4aa7-	1SS- - 0h7	SM00	dDI
y n8b cmb	16a 2	4S112- h	4- 7726-	41aa6- 2	417aS4a	4M4a	dDI
tCocmb	11a 1	0- 6- - Sh	0Sh0h- S	0201hS0	0244- 72	1M76	dDI
tCocmb	11a 2	hSaa4a	h6- 44-	h- 27h-	h- - h6S	- M1S	dDI
tpnC	a4 2	- 44a2aa	- 4a6621	- 4S6S21	- 4- ah66	SM00	dDI
tpnC	a6 2	62S610h-	616011SS	62- 0a7- a	62S- 624-	SM40	dDI
tpnC	a0 2	1a70h01	1ahS006	1ah0241	1ah1hh6	SM1S	dDI
KpEDTnC	7- 1	- 42	- 22	- 0a	- 40	0M64	dDI
Lr wo	2S6 1	2h67aa	2h- - 4h	- SS07a	2h6hh6	1M2a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :uwb r :J	1Saq . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	24a0S6	2417aS	246ha-	2447- 0	1N8h	dDl
Lr wo	2S7 1	1107hSh	116- 0a7	110a2ah	1102642	SM00	dDl
LdTGmb	6 1	264- - 26	26121h-	2666440	264S6aa	1N8-	dDl
9 wgCr l mb	24 2	h20- 00	h21S64	h12S42	h2S161	SM74	dDl
9 wCgwCr l r	aa 2	1aa4a77	1a42010	1a2a747	1a41Sa1	SM14	dDl
9 n8Eeor Cmb	h4 1	- 116h	- 170h	- 1661	- 1a0S	1M1a	dDl
9 n8Eeor Cmb	ha 1	1hh1a	1h202	1hSh0	1h427	2M22	dDl
9 n8Eeor Cmb	h6 1	2- a- 0	2- 662	2- 462	2- aa4	SM4-	dDl
9 n8Eeor Cmb	h0 1	12S14	11h02	11a7h	117a7	1M17	dDl
9 n8Eeor Cmb	h7 1	- Saa1	- 11h4	- S- 2a	- S6hS	1M40	dDl
u r noEb mb	1aS 1	1hh6S7	1haahh	1h6a- 1	1h0246	1N86	dDl
u r noEb mb	1aS 2	ah74-	a7a01	a0- 02	a7aha	2M11	dDl
u dkr 8	6S 2	- - - 0h	- - 2- 2	- 2017	- - 11S	1N8a	dDl
NGhl DGhpml	- 1 2	- 10a	- 1SS	- SaS	- 1Sh	2N82	dDl
NnTwl mb	- h 2	2ha70S	2h1626	2h622S	2h4a02	SM70	dDl
. Ghomb	1S- 1	027S111	02061S6	01h- 04a	024hh77	SM00	dDl
. Ghomb	1S- 2	- 1S2S4S	- 24a- 17	- 1hSa76	- 10h- 1a	2M20	dDl
l dwComb	4a 1	47a46S6	4720h26	40a4S62	47121h7	1N87	dDl
l dwComb	4a 2	1- 04a0	1442hS	14172S	14117h	2M1a	dDl
l r 8 Cmb	72 1	266	- 40	262	2h2	16M44	dDl
l r 8 Cmb	00 2	1hS	14-	1a0	16-	14M01	dDl
l r 8 Cmb	07 2	1- 6	1a6	14-	14a	0N8S	dDl
l 8dnC	27 1	0a46h64	00776h6	0724h7a	002S21a	1M16	dDl
l 8vr p	1S0 1	2774	2a- 4	2h10	2007	0M0a	dDl
l 8vr p	1Sh 1	2- 2a	2660	27h2	2627	1SM76	dDl
l nomb	2- 2	040- -	04h10	0- 1h2	04271	1M27	dDl
l TpnCTmb	76 1	16- 712	161h72	162207	1626h1	SM0S	dDl
l TpnCTmb	77 1	1471a7a	14h10- 2	14h7S72	14hS466	SM46	dDl
l m8mp	- 4 1	- - 172h	- 2a174	- 2a0Sh	- 20a04	1M1-	dDl
Ar pemb	1ah 1	1Sa- 1472	1S17011S	1S420404	1S- 72S22	1M0S	dDl
Ar pemb	1ah 2	- h- 66a-	41- 611S	- h71a44	4S171S2	2M0S	dDl
AGw8mb	2S- 1	24h2	2a- 4	24aS	24h2	1M00	dDl
AGw8mb	2Sa 1	a7- a	6S- a	a74-	ahS4	1M12	dDl
AdC	117 1	1aaah	1a767	1a66S	1a6h6	1N8S	dDl
AdTwCmb	40 1	h2146	h1aa7	h221-	h1h02	SMlh	dDl
RpwCmb	2- 7 1	76110	7- 122	70S47	7a42h	2M4S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :u wb r :J	1Saq. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	a1 2	07117	06077	0a72-	06h1S	1M4S	dDl
YTTr peomb	102 1	2a1a7	2a- 0a	247hS	2a141	SM10	dDl
YTTr peomb	102 2	12S- -	11- hh	114- -	11622	- M80	dDl
YTTr peomb	106 1	10a0h	10107	1671h	101h2	2M21	dDl
YTTr peomb	106 2	17Sa0	1hS2S	1767S	17a76	2M4-	dDl
YTTpomb	7h 1	142hh72a	14SSSh7-	14216a01	141024ah	1M8h	dDl
YTTpomb	7h 2	1- 017h1	1444SSa	142SSa0	1411h74	2M4S	dDl
ZdCd	66 2	6712-	667hS	660- S	60247	1M1-	dDl
ZqpdnComb	hS 1	a- 6h6	aa407	a4271	a447a	1M60	dDl
ZqpdnComb	h1 1	12S40	1167h	126- 1	12122	- M12	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0S0- 16	0S6272	0S17- S	0Sa14-	SM41	dDl
qCTb nCh	121 1	1S146	E02E	1S701	1S24E	aM64	dDl
qpl r Ccl	0a 2	0601	0a22	06SE	06SS	SMEE	dDl
Bwpcmb	1- a 1	aaEa06	aaa062	aa41- E	aa64E2	SM4S	dDl
Bwpcmb	1- 0 1	EESE4S	E74- aE	E60EaE	E71S76	1M21	dDl
Br ph8mb	E 1	- 014	- 024	- 64S	- 6E-	1M24	dDl
Bdl b mTG	2SE 1	67Sa744	021E1- 4	6E0a74-	0SSS204	2ME0	dDl
Bdl b mTG	2SE 2	- 16S622	- 27- S- S	- - 42704	- 262106	2M7a	dDl
Bpmb cCr	71 1	7S44	74E4	7- 1E	7276	2M04	dDl
5 wob cmb	1S7 1	- E6	42a	- 46	- 7E	1SMS	dDl
5 wob cmb	1S6 1	4a4-	4a- 4	47a1	464-	- M7E	dDl
5 wob cmb	111 1	4- 11	4S47	42- E	42SS	- M24	dDl
5 w8lcmb	4- 1	1S2SEa0	1S224- 2	1S1- a6a	1S17E7a	SM40	dDl
5 w8lcmb	44 1	1022S- Ea	10- S1144	1022061a	1024E017	SM26	dDl
5 wpenC	12 1	4477- 71	4a27ES6	4a7E67a	4a- a6a0	1M12	dDl
5 wpenC	12 2	aaSE6	aaSa4	a- a- E	a4a6-	1M0-	dDl
5 G8hpcCr	- a 1	2S1- S676	2- aaE400	2a2- 2E70	22E04- 7-	11M2	dDl
5 G8hpcCr	- a 2	17SaES	17- 7S6	177761	17441E	2M26	dDl
5 Gpmb cmb	a2 2	6ESSa	67701	670a1	67706	SM17	dDl
5 new8T	aE 2	- 7ES-	- 740E	- ES74	- 7722	SM7S	dDl
5 nDDr p	6- 2	1E- 470	1E2S16	1E- 104	1E27E2	SM4S	dDl
&hl Dpnl cmb	1a6 1	74aa1	76S17	74044	7a1S4	SME4	dDl
&hl Dpnl cmb	1a6 2	- 40- a	- 4- 67	- 460a	- 4aE-	SM40	dDl
Fpecmb	164 1	6- aS2	62S21	6S7ES	621- 7	2M11	dDl
Fpecmb	164 2	240E-	24E60	2472S	2476S	SM17	dDl
Hwon8Ccmb	16S 1	0- E1-	02- 64	04- - -	0- a- 0	1M41	dDl
Hwon8Ccmb	16S 2	- - 46a	- - 71-	- - E6S	- - 046	SM0a	dDl
y n8b cmb	16a 1	EE- E40S	1S1SS- E0	1S146674	1SS6217-	1M37	dDl
y n8b cmb	16a 2	4S600EE	4- 44SE7	4200E14	422EE- 0	- M41	dDl
tCocmb	11a 1	6E2444a	0- 21EE7	01EE1E0	0147a40	2M7a	dDl
tCocmb	11a 2	E1aEa2	Eaa7EE	Ea04a1	E4- 1S1	2M4E	dDl
tpnC	a4 2	270- a4-	204S167	27- - - SS	271a601	2M4-	dDl
tpnC	a6 2	a1SaaSaS	aSE- 2241	a1- S- 4SS	a1SE67E0	SM0	dDl
tpnC	a0 2	117E2S2	12170S2	11E0E74	12S1E6-	1M26	dDl
KphDTnC	7- 1	- a1	- 4a	- 11	- - 6	6M41	dDl
Lr wo	2S6 1	1- 26001	1- - a1E-	1- 1a74-	1- 2aE- 6	SM0-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1SE712-	11160E1	1SE0Sa7	11S- EE1	1N81	dDl
Lr wo	2S7 1	aa2SEaS	aa071E0	aa2aE76	aa41011	SM10	dDl
LdTGmb	6 1	2a42742	2664761	267a477	26- 1S6-	2M4-	dDl
9 wgCr l mb	24 2	100221S	1022271	10- Saa2	1041671	1M44	dDl
9 wCgwCr l r	aa 2	1SE7211	1S0710S	1SE2426	1S7E6S2	SM4a	dDl
9 n8heor Cmb	E4 1	- a10S	- 47a-	- 44- a	- 471E	1N86	dDl
9 n8heor Cmb	Ea 1	144- -	1- 44S	1- 4ES	1- 077	4N86	dDl
9 n8heor Cmb	E6 1	1E6- E	1E02-	1Ea64	1E642	SM4S	dDl
9 n8heor Cmb	E0 1	764a	E212	74S-	70a-	4M04	dDl
9 n8heor Cmb	E7 1	220E4	220E4	214- 4	22- 41	- M42	dDl
u r nohb cmb	1aS 1	14446E	144a4E	1442S1	1444S6	SM1-	dDl
u r nohb cmb	1aS 2	4- 04a	42601	4- 0S1	4- - 02	1M4S	dDl
u cdkr 8	6S 2	26417	2a- - E	266Sa	26121	2M62	dDl
NGhl DGhpml	- 1 2	4Ea1	4Ea1	a167	aS2-	2M4E	dDl
NnTwl l cmb	- E 2	- 06EE1	- 06Ea1	- 06SEE	- 0667S	SM1-	dDl
. Ghocmb	1S- 1	671- - - 1	01- S- 7-	02SEEa4	0Sa1222	2M47	dDl
. Ghocmb	1S- 2	- S67S74	- 2Sa74E	- 26S21-	- 107S47	- M12	dDl
l dwCocmb	4a 1	446E1a0	47a701E	47102S4	401aS20	4M44	dDl
l dwCocmb	4a 2	1- 0a0E	14- 7- 0	14041-	142E4-	- M47	dDl
l r 8 Cmb	72 1	246	1EE	2- 0	220	11M1	dDl
l r 8 Cmb	00 2	2S0	1- 0	17S	104	2SM2a	dDl
l r 8 Cmb	07 2	1- 1	111	1- 0	126	1SM07	dDl
l 8dnC	27 1	1S- 6E61E	1S1- 0- Sa	1S26a20a	1S2a04SS	1M1-	dDl
l 8vr p	1S0 1	74a-	7707	7661	7664	2M46	dDl
l 8vr p	1SE 1	72S-	0EE4	7161	711E	1M6	dDl
l nocmb	2- 2	10S067	160014	10- 144	10Sa42	1M6S	dDl
l TpmCTcmb	76 1	40SEa6	402221	40S274	4011a4	SM21	dDl
l TpmCTcmb	77 1	4- S6E- a	42a20SS	42644S2	420460E	SM00	dDl
l m8mp	- 4 1	- aEE- 7	- 6aSS-	- 626S6	- 62a1a	SM0S	dDl
Ar pecmb	1aE 1	EEE17E6	1S- 0- 7- 7	1S2- 12S7	1S1E7E71	1M7E	dDl
Ar pecmb	1aE 2	- E17- - 2	41a0442	4120SS4	4S60aE-	- M2S	dDl
AGw8mb	2S- 1	20aE	27aS	2a2a	2011	6M17	dDl
AGw8mb	2Sa 1	60a2	6720	621S	6aE6	aM1S	dDl
AdC	117 1	2- 746	2- 40E	2- 446	2- aES	SM44	dDl
AdTwCmb	40 1	227a7a	22716-	224ES4	220210	SM7E	dDl
RpwCmb	2- 7 1	E62a0	Ea000	E4E0S	Ea667	SM07	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa1	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :u wb r :J	1S6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a1 2	0- 17E	0- 2S-	01EE-	020Ea	SNEa	dDl
YTTr pecmb	102 1	17771	1E- 2-	1707E	17EE0	1N4S	dDl
YTTr pecmb	102 2	7a0S	702S	7442	7a00	1N02	dDl
YTTr pecmb	106 1	1- - 72	1- 616	1- 172	1- - E-	1N02	dDl
YTTr pecmb	106 2	16- aa	1017E	1014a	167E6	2N07	dDl
YTTpcmb	7E 1	1- a- 7a42	14161E66	1412EE11	1- E4- 40-	2N42	dDl
YTTpcmb	7E 2	12E- 71S	14146- a	14- 627-	1- 71a06	aN46	dDl
ZdCd	66 2	1- 0442	1- 4604	1- 6SSE	1- 6S42	1N82	dDl
ZqpdnCcmb	ES 1	0aS1E	0647a	0aE04	0a726	SNE7	dDl
ZqpdnCcmb	E1 1	10176	10- S-	101a-	10214	SN46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :uwb r :J	1S0q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	70677a	7ah77h	702ha2	76hhSh	1N82	dDl
qCTb nCE	121 1	47a1	4h4-	a117	4h0S	2N0-	dDl
qpl r Ccl	0a 2	1ha0	17h-	1h1S	1h2S	1N0-	dDl
Bwpcmb	1- a 1	64- 24-	6- 4771	64- a0a	64Sa66	SN00	dDl
Bwpcmb	1- 0 1	11- 61hS	111a- 4-	111h411	112- 647	SN17	dDl
Br pE8mb	h 1	2- 21	22a4	2240	2204	1N7S	dDl
Bdl b mTG	2Sh 1	6- 4- 770	67h- - 4a	0- 270S1	67aa- 11	0N2S	dDl
Bdl b mTG	2Sh 2	- - 41a14	- - 11h60	- S60hhh	- 24S4h-	4N0-	dDl
Bpmb cCr	71 1	60- a	6a67	6a- a	661-	1N62	dDl
5 wob cmb	1S7 1	1h6	1h6	177	1h-	2N4h	dDl
5 wob cmb	1S6 1	4226	44- 4	4- 42	4- - 4	2N41	dDl
5 wob cmb	111 1	2247	221a	2416	22h-	4N0h	dDl
5 w8lcmb	4- 1	- 0aahS	- 604S1	- 6h0- a	- 0ShSh	1N14	dDl
5 w8lcmb	44 1	6- 611aS	61h447h	61- 4hh1	62- S21S	1N77	dDl
5 wpenC	12 1	6h2764S	0S46S17	024a72S	0S0- 4h-	2N20	dDl
5 wpenC	12 2	74667	741- 2	7406h	74a2-	SN41	dDl
5 G8hpCr	- a 1	2SS744- -	2- S22274	24h62601	2267h0h6	1SN72	dDl
5 G8hpCr	- a 2	107SSh	174hh6	1702a7	17- 421	2N0-	dDl
5 Gpmb cmb	a2 2	- 7a12	- 7a4a	- h2h4	- 7074	1N14	dDl
5 new8T	ah 2	- 0060	- 0412	- 06S-	- 0ah4	SN40	dDl
5 nDDr p	6- 2	h1702	h2a22	h2- 07	h22a0	SN0	dDl
&El Dpnl cmb	1a6 1	a0S71	a6S6S	a70a4	a02hh	2N0	dDl
&El Dpnl cmb	1a6 2	2- a64	2- 1a-	2- 6S7	2- 442	1N80	dDl
Fpecmb	164 1	462- h	4a- 11	461a6	4ahS2	1N2	dDl
Fpecmb	164 2	17660	171- h	17266	17- a0	1N4S	dDl
Hwon8Cmb	16S 1	aS270	a21h4	a1a60	a1- aS	1N7h	dDl
Hwon8Cmb	16S 2	2- 771	2- 04a	2- 70a	2- 7- 4	SN2	dDl
y n8b cmb	16a 1	7hh70ha	hh7420-	1S1416- 0	h0S72- a	6N7	dDl
y n8b cmb	16a 2	4- - aS6a	4221676	- h7a07a	417S74a	4N26	dDl
tCocmb	11a 1	6ah107-	0114Sh4	0101170	6hahS21	4N4h	dDl
tCocmb	11a 2	h7hS42	h60240	707772	h4aSa0	6N0	dDl
tpnC	a4 2	2060a2a	267762-	20SS22h	20170h2	1N40	dDl
tpnC	a6 2	476S7h76	4001hh17	47- 04a2-	472- 4406	SN6	dDl
tpnC	a0 2	1166ha7	11a2- h4	114174a	11a- 0- 2	1N8h	dDl
KpEDTnC	7- 1	- 14	- - 1	- 42	- 2h	4N4S	dDl
Lr wo	2S6 1	46a- 01	40a417	46202S	4607- 6	1N4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :uwb r :J	1S0q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	- 76S41	- 70ahS	- 74ah2	- 76S04	SMlh	dDl
Lr wo	2S7 1	17166- a	17- 10hh	17- 0h60	17277S1	SM6S	dDl
LdTgmb	6 1	24S06S-	26- 66h1	20212- -	2a77aSh	6M20	dDl
9 wgCr l cmb	24 2	7S672-	7SS121	0hh046	7S22- S	SM4S	dDl
9 wCgwCr l r	aa 2	a020- 2	a602a1	a6012-	a6hS- a	SM46	dDl
9 n8Eeor Cmb	h4 1	16- 6S	10ha4	10S44	1011h	4M60	dDl
9 n8Eeor Cmb	ha 1	44Sh	4aS1	4- S1	44S4	2M20	dDl
9 n8Eeor Cmb	h6 1	7S61	0- 00	011h	0a1h	6M40	dDl
9 n8Eeor Cmb	h0 1	- Sah	2042	2674	2727	0M14	dDl
9 n8Eeor Cmb	h7 1	0S6S	0S- a	0a20	02S7	- M74	dDl
u r noEb cmb	1aS 1	h- a00	h10Sa	h424h	h- 100	1M41	dDl
u r noEb cmb	1aS 2	2721-	27S1-	20042	20h7h	SM74	dDl
u cdkr 8	6S 2	100S4	17- a2	107aa	10h0S	1M7h	dDl
NGhl DGhpml	- 1 2	6167	ah1S	6a17	61hh	4M1-	dDl
NnTwl l cmb	- h 2	a20447	a11a71	a1hh60	a1h66a	1M4-	dDl
. Ghocmb	1S- 1	6407- ah	0S- 210-	011S7- 0	670- 07h	aM81	dDl
. Ghocmb	1S- 2	- 2h- 41a	- - 1227-	- S- 4216	- 21- - Sa	4M74	dDl
l dwCocmb	4a 1	4- 2aaa4	46a0aah	47162- 6	4ahh07-	aM44	dDl
l dwCocmb	4a 2	14h1S1	146S6-	1- 17- 4	142- - -	6M47	dDl
l r 8 Ccmb	72 1	110	112	71	1S4	17M1-	dDl
l r 8 Ccmb	00 2	0-	1- S	120	11S	27M1	dDl
l r 8 Ccmb	07 2	76	74	66	0h	14M8S	dDl
l 8dnC	27 1	1Sh721a1	11127- 06	1Sha- a11	11S21- 46	SM7a	dDl
l 8vr p	1S0 1	2S- 4	2SSh	2S10	2S2S	SM0-	dDl
l 8vr p	1Sh 1	17h2	1760	1742	1760	1M4	dDl
l nocmb	2- 2	ah7- 2	a7044	6S- - -	ah6- 0	1M6	dDl
l TpnCTcmb	76 1	7- 041-	7- h067	7a4402	74- 774	1M1S	dDl
l TpnCTcmb	77 1	06100a0	060- 4- h	044- S7h	0a07Sha	1M4h	dDl
l m8mp	- 4 1	- 2- h6a	- 11716	- Shaa6	- 1a11-	2M46	dDl
Ar pecmb	1ah 1	h166a42	1S- 6702a	1S46- 647	hhhh6- 7	0M2-	dDl
Ar pecmb	1ah 2	4- 261aS	4S00a14	- h1a- S2	41S6- 22	aM84	dDl
AGw8mb	2S- 1	2S74	1760	2S- 4	1hha	aM0h	dDl
AGw8mb	2Sa 1	46- 4	4hSh	a- 6S	4h67	0M0	dDl
AdC	117 1	11602	11S21	11614	114- 6	- M1a	dDl
AdTwCcmb	40 1	7ha1-	7h126	77h10	7h176	SM4	dDl
RpwCcmb	2- 7 1	6- S2-	6- 626	6- SS6	6- 21h	SM46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :u wb r :J	1S0q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	6hShh	670a0	6720h	67012	SM8S	dDI
YTTr peomb	102 1	1447-	1a106	1-7hh	14a1h	4M4S	dDI
YTTr peomb	102 2	6424	017S	6h1h	6741	aM01	dDI
YTTr peomb	106 1	hh0h	1S06-	1S-h6	1S-0h	-M07	dDI
YTTr peomb	106 2	1a701	16Shh	1a1a-	1a0S7	-M14	dDI
YTTpomb	7h 1	12-h1407	1--17471	1-4h-427	1-S600h6	4M4-	dDI
YTTpomb	7h 2	14Sh061	14--0aS	1216a0a	1-a--62	7M7S	dDI
ZdCd	66 2	07-02	0h24S	07-a2	076aa	SM04	dDI
ZqpdnComb	hS 1	-74ha	-707S	-h7S7	-hS27	1M00	dDI
ZqpdnComb	h1 1	h1S-	77S-	72S-	70S-	aM20	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RRen&psml Re:D :J	5 9 SFyy	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	61264S	6110- 6	yh0761	6S0412	1U6	ql w
cn&AmonE	121 1	1760	2110	2SSh	1hh0	6U27	ql w
crwenAq	0y 2	1417	1- 1y	126-	1- - 2	yUh2	ql w
BsrAm	1- y 1	411h6S	411- 41	4S6466	4Shh22	SU0-	ql w
BsrAm	1- 0 1	0- Sy26	0- 2S2y	01S0- 4	024427	1U64	ql w
BerEPAm	h 1	1622	1y76	16Sy	16S4	1U1-	ql w
BAmu&G	2Sh 1	01S4Sh4	6h0- S67	6774026	6h702h6	1Uy7	ql w
BAmu&G	2Sh 2	- 26- 1S2	- 1y0hS2	- 277177	- 2- 6- h0	2U14	ql w
BromAne	71 1	47yh	yy7y	y2y1	y2- 2	6Uh4	ql w
RsOmAm	1S7 1	0y	1- 7	h6	1S-	- SUh6	ql w
RsOmAm	1S6 1	- h60	- hy1	- 0- 4	- 774	- Uy	ql w
RsOmAm	111 1	11- 6	11- 6	1S6h	1114	- U4h	ql w
RsRqAm	4- 1	20271h	2026yS	2044y7	20- - Sh	SUy0	ql w
RsRqAm	44 1	462- 1h0	4yy61yy	467- 442	462Sh- 1	1Uy7	ql w
Rsrbon	12 1	- - 20- 1h	- - hhh04	- 40S7y6	- - hh- 7-	2U11	ql w
Rsrbon	12 2	4Sh4h	4S- 71	4S1Sy	4S407	1US6	ql w
RGRorAne	- y 1	2S- 0217S	2- 662y71	2y200710	2- 1S41h-	1SU72	ql w
RGRorAne	- y 2	17- 22-	17647S	17042y	17y01S	1U1h	ql w
RGromAm	y2 2	24211	24077	2- 7- S	24206	1Uh	ql w
RobsR&	yh 2	2y7yS	2y6h-	2y216	2yy76	1U2h	ql w
RoI I er	6- 2	47127	471S7	4726y	47160	SU17	ql w
t EwI rowAm	1y6 1	4S1y2	412h7	4S- 07	4S61S	1U4h	ql w
t EwI rowAm	1y6 2	16760	167y1	16000	167- 2	SU27	ql w
. rbAm	164 1	- 41- 6	- 4- y4	- - - S1	- - h- S	1U64	ql w
. rbAm	164 2	1- 11-	1- 210	127hS	1- S0-	1U27	ql w
HsOoPAm	16S 1	- 0- 27	- 01- 6	- 6yy1	- 0SSy	1USh	ql w
HsOoPAm	16S 2	10- 01	10447	102- 7	10- y-	SU61	ql w
9 oPmAm	16y 1	1S1yy14h	1SSyh- h2	h07S2S6	hhh724h	1Uhy	ql w
9 oPmAm	16y 2	41yS77y	41yS66-	4224y4h	410y- 66	1US2	ql w
DrOAm	11y 1	016y4- 0	024407S	01- 2- 44	017S7y4	SU7S	ql w
DrOAm	11y 2	h- S2y0	h24- 4h	h- 20h4	h2h1- 4	SU40	ql w
Don	y4 2	17y0444	171474S	107ShhS	17100y7	2U11	ql w
Don	y6 2	- - 16- 67-	- 2y- S0y6	- 221011y	- 26- 017y	1U47	ql w
Don	y0 2	07S414	000- 06	002y- 7	006006	SUy1	ql w
KrEI &on	7- 1	- S6	2hh	20y	2h-	yUy6	ql w
LesO	2S6 1	21yh47	2Shh- -	2S74hy	2114y7	1U70	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyy	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	100y70	10y- y1	104h- 0	10yhy7	SU71	ql w
LesO	2S7 1	746- 74	726y77	716- y4	72h00y	1U74	ql w
LA&GAum	6 1	267SS1S	26S00S6	26yy0h4	26407- 0	1U h	ql w
5 sgnewAum	24 2	6S64- 6	61S6- 7	6116S-	6Shyyh	SU4y	ql w
5 sngsnewe	yy 2	- 7S270	- 0204y	- 60471	- 0- yS4	1U02	ql w
5 oPEbOenum	h4 1	1S- 6-	h7- 0	1S6S4	1S267	- U72	ql w
5 oPEbOenum	hy 1	2y2y	2274	2- yS	2- 76	yU2-	ql w
5 oPEbOenum	h6 1	4242	42h2	4110	4210	2U14	ql w
5 oPEbOenum	h0 1	1y10	1- S7	142y	1410	0U 0	ql w
5 oPEbOenum	h7 1	- 7yh	- 642	- y06	- 6h2	4US1	ql w
NeoOEmAum	1yS 1	6hy4S	6h727	6h101	6hy1-	SU40	ql w
NeoOEmAum	1yS 2	2Sh- -	2S2- h	2Syy-	2Sy0y	1U6h	ql w
NAqkeP	6S 2	1- 01S	12hSh	1- y- 0	1- - 7y	- U1y	ql w
8 GowI Goruw	- 1 2	24- 4	24SS	21h2	2- 42	yUyh	ql w
8 o&swwAum	- h 2	2S7271	2Syh02	2S- 440	2SyhSS	1U10	ql w
CGoOAum	1S- 1	012y4y-	011- 274	01Sy0y-	01147- S	SU14	ql w
CGoOAum	1S- 2	- 2216- 6	- 160y77	- 106266	- 1774h0	SUh1	ql w
pqsnOAum	4y 1	400- 21h	40S- 4- h	40261- -	40- 426-	SU0y	ql w
pqsnOAum	4y 2	14210y	1- h6- 7	1- h762	14Syy7	1USS	ql w
pe&enAum	72 1	20	- y	h2	y2	67U74	ql w
pe&enAum	00 2	h-	6-	h0	74	21U04	ql w
pe&enAum	07 2	06	67	0y	0-	yUh0	ql w
pAAqon	27 1	7h46h- -	h- S2yh4	h22- S- 6	h1y0y21	2US4	ql w
pAPer	1S0 1	h42	h7-	1Sy7	hhy	yUhy	ql w
pAPer	1Sh 1	1SSS	h7-	742	h42	hU24	ql w
poOAum	2- 2	hS- h6	h1SS7	7h416	hS204	SU7h	ql w
p&on&Aum	76 1	y044S0	yh0612	y7yS1h	y7y60h	1Uh7	ql w
p&on&Aum	77 1	y1h010y	y4- 17h0	y277771	y- Syh74	2U2-	ql w
puPur	- 4 1	204471	200y20	206yS1	20610S	SUy6	ql w
i erbAum	1yh 1	1S- 7h760	1S212600	1S2h147S	1S2h7SS7	SU76	ql w
i erbAum	1yh 2	41yhh42	- 70- 17y	4S16h7-	4S160S-	- Uy0	ql w
i GsPAum	2S- 1	1- 7-	1y10	1y2y	140y	yU h	ql w
i GsPAum	2Sy 1	- 742	- 760	- 642	- 074	- U26	ql w
i A	117 1	04y2	0y1h	0- 20	04- -	1U 1	ql w
i A&snAum	40 1	y66- 7	y01- h	y0742	y02S6	1USS6	ql w
MrsnAum	2- 7 1	- - 227	- 26y1	- 46y6	- - y12	- US7	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFyy	t A&on:Fsq&or:J	1
t s&e:T:i Ane:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	44171	44SS0	4- 070	4- hh2	SU4y	ql w
Y&erbAum	102 1	1S26-	1S16-	1SS0h	1S167	SUhS	ql w
Y&erbAum	102 2	yS2h	4- y6	4012	46hh	0U16	ql w
Y&erbAum	106 1	0011	7S76	02- y	0600	yUyy	ql w
Y&erbAum	106 2	14- 14	14- 40	141- 6	1426y	SU7S	ql w
Y&&Aum	7h 1	1- - 2- 464	1- 6yy7h2	1- 007- 02	1- y7yh1S	1U0-	ql w
Y&&Aum	7h 2	120717S	1261h12	12y0SS1	126y6h7	SU77	ql w
ZAnq	66 2	- 2- 4S	- 1h0-	- 140y	- 1h2h	1U16	ql w
ZAqonAum	hS 1	22744	24y22	2- 0h6	2- 021	- Uyy	ql w
ZAqonAum	h1 1	y4S1	y026	y0S1	y61S	- U2-	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	87
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	Rn&w
cRmAAm	20 2	70hS60	762S7C	7h71S7	76hS77	1M3-	ql w
cn&AmonE	121 1	- 2- 4	- - 06	- 1SC	- 2- C	4M12	ql w
crwenAq	0h 2	h- 4C	h20C	h12C	h2h2	2M1-	ql w
BsrAm	1- h 1	4C1S42	47C066	47- 20h	477S27	SM7h	ql w
BsrAm	1- 0 1	76627h	70h471	76- h77	7674h1	SM02	ql w
BerEPAm	C 1	2621	261C	2h7h	26S7	SM07	ql w
BAmu&G	2SC 1	0ShSS1h	6CS- 47C	0S6- 1SC	0SShh- 7	1M26	ql w
BAmu&G	2SC 2	2771C4S	- 17- SC-	- 1Ch67C	- S76CS7	hM0h	ql w
BromAne	71 1	616S	627h	6420	62CS	2M12	ql w
5 sOmAm	1S7 1	16-	12C	1S4	1- 2	22M17	ql w
5 sOmAm	1S6 1	4142	- C42	- CS1	- CCh	- M4-	ql w
5 sOmAm	111 1	1CSC	10h7	1006	1714	4M1h	ql w
5 sRqAm	4- 1	24- C64	240- Sh	2476Sh	246624	SM00	ql w
5 sRqAm	44 1	4201SC1	4160- 7-	4140- 2C	41Ch267	1M17	ql w
5 srbon	12 1	- 71S022	- C22176	- 7C2C06	- 70h2Ch	1M4C	ql w
5 srbon	12 2	46066	40h20	40SS1	40SC7	SM7-	ql w
5 GRorAne	- h 1	2S40C202	2- h464S0	2h0S262S	2- 242066	11M2C	ql w
5 GRorAne	- h 2	176044	1C- 16S	1C4640	1C1h10	2M1C	ql w
5 GromAm	h2 2	01420	0S- 72	0S640	0S71C	SM00	ql w
5 obsR&	hC 2	076- C	0676S	004SC	006- 6	1M10	ql w
5 ol l er	6- 2	14- h7h	14S121	142Ch2	14221C	1MS	ql w
t Ewl rowAm	1h6 1	60C72	0S6Ch	677h-	6C100	2M3S	ql w
t Ewl rowAm	1h6 2	270- 4	27047	27711	27064	SM14	ql w
FrbAm	164 1	h771h	6SSC4	hC610	hChSC	1M3C	ql w
FrbAm	164 2	24122	2- 10S	2- - 11	2- h- 4	2M17	ql w
HsOoRAm	16S 1	6446h	640C1	64616	64624	SM2h	ql w
HsOoRAm	16S 2	2C06S	2C- 2C	2CS72	2C- CS	1M10	ql w
y oRmAm	16h 1	1SSh4- 20	1SS060S2	C0402- -	CChC421	1M7h	ql w
y oRmAm	16h 2	- 6S61S1	42SS42h	412- 606	- C060- 4	7M1-	ql w
DnOAm	11h 1	0247760	0S6h- 6C	6Ch6420	0SCS221	2M37	ql w
DnOAm	11h 2	7S1- 74	C44276	C- 1641	7C24- 0	7M76	ql w
Don	h4 2	42S1h- h	41174S7	41C7h26	410272-	1M1-	ql w
Don	h6 2	0h046S67	047C21CC	040- 74C1	0h12hh76	SM02	ql w
Don	h0 2	1C6SSh0	1C- C60S	1C64h67	1Ch406h	SM67	ql w
KrEl &on	7- 1	- SC	- S1	- - 6	- 1h	hM74	ql w
LesO	2S6 1	- 2h6SC	- 26C- 1	- 24446	- 2h662	SM17	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	Rn&w
LesO	2S0 1	26h760	2677hC	266244	266CCS	SM61	ql w
LesO	2S7 1	12621- 6	12010S0	1262hC1	126h407	SM4-	ql w
LA&GAum	6 1	26- hh4-	26- 77S7	260- 02C	264C- 6S	SM7S	ql w
9 sgnewAum	24 2	1277h72	12- 4667	12hCC7C	1261S7S	2M14	ql w
9 sngsnewe	hh 2	10441- 6	1011C22	1044Chh	10- - 601	1M3C	ql w
9 oPEbOenum	C4 1	1- S71	11C22	11014	122- C	6M32	ql w
9 oPEbOenum	Ch 1	hC1S	h7- h	62- h	hCC-	- M1h	ql w
9 oPEbOenum	C6 1	071C	7107	066C	077C	- M1	ql w
9 oPEbOenum	C0 1	- 010	- 060	- C06	- 72S	- M1C	ql w
9 oPEbOenum	C7 1	C42S	C2Ch	C7h4	Ch2-	- M37	ql w
NeoOEmAum	1hS 1	1116S0	1SCh- 6	11S4- 0	11Sh26	SM04	ql w
NeoOEmAum	1hS 2	- - hS2	- 24h6	- - - C2	- - 110	1M04	ql w
NAqkeP	6S 2	hS720	hSS67	4C2h7	hSSh1	1M10	ql w
8 GowI Goruw	- 1 2	4- SC	40hC	4C26	466h	6M74	ql w
8 o&swwAum	- C 2	4C7S0S	4C4S1C	4C2716	4C4C67	SM16	ql w
. GoOAum	1S- 1	01C4C07	0SC7hCC	01SSS01	01- 1216	SM00	ql w
. GoOAum	1S- 2	207h42S	- 2h2h46	- 2S4- 07	- S7S072	7M4	ql w
pqsnOAum	4h 1	40Sh067	40S6161	40- 72S-	4016011	SM-C	ql w
pqsnOAum	4h 2	12S4h-	14- S72	14- 111	1- hh4C	CM64	ql w
pe&enAum	72 1	- 06	- 4h	2C0	- 4S	11M67	ql w
pe&enAum	00 2	C0	11-	12-	111	12M12	ql w
pe&enAum	07 2	127	112	1S1	114	11M04	ql w
pAqon	27 1	1- 6h4- 66	1- 4- h4h-	1- 404C27	1- h21h7-	SM76	ql w
pAer	1S0 1	2- SC	22SC	2- 10	2207	2M0h	ql w
pAer	1SC 1	2- 74	2S10	2S2h	2142	CM07	ql w
poOAum	2- 2	1S0- 4-	1SC- 7-	1S7167	1S72C7	SM0h	ql w
p&onAum	76 1	2S1674	2S14h6	2SS007	2S1- S6	SM4-	ql w
p&onAum	77 1	171- - 47	17707h1	176h64C	17hh616	2M36	ql w
pu&ur	- 4 1	2071h7	204hh6	20- S12	20h242	SM06	ql w
i erbAum	1hC 1	1S- 206C1	1SS007S0	1S12C647	1S107- 72	1M-S	ql w
i erbAum	1hC 2	- hh2474	- Ch2SSS	41- 02hC	- 77Sh71	0M0S	ql w
i GsPAum	2S- 1	2CSC	- S0h	- S0h	- S2S	- M1C	ql w
i GsPAum	2Sh 1	67S2	0- h2	607h	6C7S	4M62	ql w
i An	117 1	6S26	646S	6- S2	626-	- M1S	ql w
i A&snAum	40 1	4Ch0C	4C012	4C- h-	4Ch47	SM10	ql w
RrsnAum	2- 7 1	0SSh4	02S02	01C77	01- 01	1M0S	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	RnA&w
VsnsOAum	h1 2	1S4216	1S24S4	1S262h	1S- S72	SM06	ql w
Y&erbAum	102 1	17h7S	17CS6	107- 7	17441	2M00	ql w
Y&erbAum	102 2	7S0h	7442	760h	7- C0	- M4S	ql w
Y&erbAum	106 1	1272-	1- 6S0	1- 7h7	1- 42C	4M52	ql w
Y&erbAum	106 2	1h601	10127	10612	167S4	6M31	ql w
Y&&Aum	7C 1	1- CSh22C	1- 64SS6C	1- 6641C0	1- 0- 64C7	1M30	ql w
Y&&Aum	7C 2	11474S-	1- 16771	142hS06	12C6070	1SM0h	ql w
ZAnq	66 2	60674	60S77	66S- 6	66C- 6	1M2h	ql w
ZAqonAum	CS 1	24402	244S6	24h02	2447-	SM4	ql w
ZAqonAum	C1 1	h- 06	hh26	h017	hh4S	- M3C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wo D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&JaJ	9 y SU6h	&8mTmCJJwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
q8mb cCcmb	20 2	1- h: 141	1- 01464	1- 7S612	1- 724S6	SM16	dDl
qCTcb nCE	121 1	4426	44: 1	- hS1	42: h	0M2h	dDl
qpl r Ccl	0: 2	4S4:	410S	- h67	4S61	2M1	dDl
Bwpcmb	1- : 1	: 16: S:	: 2- 12h	: 12- 7-	: 10- - h	1M8:	dDl
Bwpcmb	1- 0 1	hS67S-	h1- - hS	h24242	h14712	SM16	dDl
Br pE8&mb	h 1	- h64	4S66	- h66	- hhh	1M46	dDl
Bdl b mTG	2Sh 1	: h210S4	606141h	6h4h417	6: 44171	7M6	dDl
Bdl b mTG	2Sh 2	- 2h0- S1	- 200106	- 2024S6	- 2722h4	SM4S	dDl
Bpmb cCr	71 1	h22S	h6- 0	h: 70	h471	2M4S	dDl
5 wob cmb	1S7 1	210	21-	177	2S6	0M60	dDl
5 wob cmb	1S6 1	41- 4	4206	42: 1	422S	1M0h	dDl
5 wob cmb	111 1	2424	2401	2461	24: 2	SM1h	dDl
5 w8lcmb	4- 1	020- S:	022- 4:	01h264	022h01	SM16	dDl
5 w8lcmb	44 1	1227424S	1222: - 6-	11h6: 0: -	121: 74: 2	1Mh	dDl
5 wpenC	12 1	: 4h202h	: 67427-	: 6- 1662	: 6S27h1	1M00	dDl
5 wpenC	12 2	67SSS	6706h	60277	67S1h	1M8h	dDl
5 G8hpcCr	- : 1	17h1: 402	210S6416	2- 1h0h2-	2120- 201	1SM22	dDl
5 G8hpcCr	- : 2	167h00	101hh6	101: 4S	10S7- 0	SM1:	dDl
5 Gpmb cmb	: 2 2	67767	6742-	66722	67S- 7	1M7	dDl
5 new8T	: h 2	611- S	62- - h	62S21	617- S	1M81	dDl
5 nDDr p	6- 2	112: 1:	112h67	11- : 2-	11- SS2	SM4:	dDl
&El Dpnl cmb	1: 6 1	1SSh- S	1SS14h	h6S76	hhS: :	2M0-	dDl
&El Dpnl cmb	1: 6 2	41S0S	4S002	- h70h	4S: 04	1M-	dDl
Fpecmb	164 1	7- 0- S	741- -	74410	74Sh4	SM41	dDl
Fpecmb	164 2	- - : 66	- - : S6	- 2hS4	- - - 2:	1M1S	dDl
Hwon8Ccmb	16S 1	hS- : 6	7h460	7h2: 6	7h6h-	SM0:	dDl
Hwon8Ccmb	16S 2	41424	4S022	4S7- -	4Shh-	SM12	dDl
y n8b cmb	16: 1	7007711	h6664- 4	hh- 1027	h4: 7hh1	6M7	dDl
y n8b cmb	16: 2	4- 402S1	42- : 02:	41h4h- h	42: h277	1M7:	dDl
tCocmb	11: 1	6247h74	0S- 1h1-	6h76: hS	60: : 72h	6M1	dDl
tCocmb	11: 2	h62Shh	h61- : 4	h47676	h: 0- 7S	SM0h	dDl
tpnC	: 4 2	44: : 602	4466h: 7	441477:	444: 7- 7	SM02	dDl
tpnC	: 6 2	7S626624	7S: 16020	0hh7h61S	7S- 006: 4	SM42	dDl
tpnC	: 0 2	2S0774h	2Sh- S: :	2S62: S:	2S071- 0	SM04	dDl
KpEDTnC	7- 1	- : h	- 7:	- 0h	- 04	- M00	dDl
Lr wo	2S6 1	4S2: 47	4S: 70-	- hh421	4S2614	SM7S	dDl

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LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wb D8 Jt&JaJ	9 y SU6h	&c8mTcnCJJwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
Lr wo	2S0 1	- - : 00h	- - 40S7	- 27S61	- - 274h	1M26	dDl
Lr wo	2S7 1	1: 701: 1	1: 7121-	1: : 22: 2	1: 0- : - h	1M1h	dDl
LcTGmb	6 1	2- 024S1	26: 2424	2617Sh7	2: 40641	: M1h	dDl
9 wgCr l cmb	24 2	1011: 62	10: 07- h	16h6S11	10217S4	1M70	dDl
9 wCgwCr l r	: : 2	7h0177	hS7: h7	7h21h2	7hh- 26	SM14	dDl
9 n8Eeor Cmb	h4 1	227- 6	22120	21- : S	221S4	- M6	dDl
9 n8Eeor Cmb	h: 1	7h70	76- 6	76h:	7002	2M14	dDl
9 n8Eeor Cmb	h6 1	127h7	1260-	12271	12610	2M47	dDl
9 n8Eeor Cmb	h0 1	: 006	: h7:	: 04-	: 7- :	2M2:	dDl
9 n8Eeor Cmb	h7 1	1472:	1: : - 4	14: S7	14h: 6	- M1	dDl
u r noEb cmb	1: S 1	1: h602	1: h- S7	1: 7772	1: h277	SM2:	dDl
u r noEb cmb	1: S 2	40hhh	40: : 1	40- : S	406- -	SM0S	dDl
u cdkr 8	6S 2	44744	44: - 6	44h41	44004	SM40	dDl
NGhl DGhpml	- 1 2	- h42	41: 1	4410	410S	: M01	dDl
NnTwl l cmb	- h 2	: 2S: 12	: 2: 72S	: 2242-	: 22h17	SM1	dDl
. Ghocmb	1S- 1	611: - 67	0S6- 64h	6h: S7: 6	60Shh: 0	0M02	dDl
. Ghocmb	1S- 2	- 2- 0S04	- - 27h71	- 22616h	- 264S0:	1M0-	dDl
l dwCocmb	4: 1	4S14461	4: : - h41	40SS- - 0	4422h1-	7M10	dDl
l dwCocmb	4: 2	147h40	146- : S	1440S0	146667	1M46	dDl
l r 8 Ccmb	72 1	- 74	216	- 2S	- S0	20M0	dDl
l r 8 Ccmb	00 2	210	2S-	210	212	- M0-	dDl
l r 8 Ccmb	07 2	117	1- 1	1: S	1- -	12M1S	dDl
l c8dlnC	27 1	12: - - - S0	126h221:	12176: 1-	1240S607	2M80	dDl
l c8vr p	1S0 1	2: Sh	2: 42	24: S	2: SS	1M76	dDl
l c8vr p	1Sh 1	220:	2260	2210	22: -	1M4S	dDl
l nocmb	2- 2	07Sh-	07: h:	00hSS	071h6	SM46	dDl
l TpnCTcmb	76 1	271- 21	27- - 00	202- 14	20hSS4	2M11	dDl
l TpnCTcmb	77 1	26S7: - 1	2: - 7666	2: : 0746	2: 67- 47	1M41	dDl
l m8mp	- 4 1	2h0- 72	2h0S42	2h0677	2h0- 01	SM11	dDl
Ar pecmb	1: h 1	77- SS22	hh1S07h	1SSSS- Sh	h: 7S- 0-	6M7S	dDl
Ar pecmb	1: h 2	410S2- :	411: 702	42: 7S1S	4171- 02	1M02	dDl
AGw8cmb	2S- 1	444-	4: : h	46- 4	4: 4:	2M1-	dDl
AGw8cmb	2S: 1	1S0: :	1Shh0	1S702	1S704	1M11	dDl
AcC	117 1	1777h	17Sh6	1h40-	1771h	- M60	dDl
AcTwCcmb	40 1	00Shh	0002S	06hhh	00202	SM11	dDl
RpwCcmb	2- 7 1	0: 1: 6	04h1-	0- : - S	04: - -	1M17	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wb D8 Jt&JaJ	9 y SU6h	&8mTmCJJwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwocmb	: 1 2	112- h0	11SS7S	111110	1111h7	1M84	dDl
YTTr pecmb	102 1	267: -	2601h	2601h	26064	SM2h	dDl
YTTr pecmb	102 2	12460	12h12	1- - 17	127hh	- MS	dDl
YTTr pecmb	106 1	1hS2-	10: - 0	17: S:	17- : :	4M1	dDl
YTTr pecmb	106 2	1h: - 1	2SS4h	1h- 0S	1h6: S	1M1	dDl
YTTpcmb	7h 1	124S0S: -	1- 04116h	14Sh4: 10	1- 414246	6M-	dDl
YTTpcmb	7h 2	14: - 4- :	14: 1: 67	146S11-	14: : S- h	SM1	dDl
ZdCd	66 2	0- 044	0- : - S	0- - h6	0- : : 6	SM24	dDl
ZqpdnCcmb	hS 1	40114	46244	44- h6	4: h17	- M2	dDl
ZqpdnCcmb	h1 1	11S- S	1SS70	1S6h6	1S6S4	4M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU0S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb dCmb	20 2	7S46a7	7S11SS	0a041a	7S1S0-	SM4h	dDl
qCTb nCE	121 1	a6- 0	1S112	aa62	aaS4	2M4h	dDl
qpl r Cdl	0h 2	11S61	1Saha	1Sa7-	11SS1	SM4a	dDl
Bwpmb	1- h 1	ha2- 42	ha7206	6SS60-	ha0Sa0	SM02	dDl
Bwpmb	1- 0 1	1S14670	1Sh21h0	1S722a2	1S4a012	- M4-	dDl
Br pE8mb	a 1	h0- 2	h774	h6h0	h0h7	2M81	dDl
Bdl b mTG	2Sa 1	604a6- -	0Sa0a17	6a- h0h0	6a2006a	2M12	dDl
Bdl b mTG	2Sa 2	- 21h42S	- - 706h7	- - aS00-	- - - 1274	- M81	dDl
Bpmb dCr	71 1	6067	6620	027h	67a4	hM8-	dDl
5 wob mb	1S7 1	42h	h21	4SS	44a	14M22	dDl
5 wob mb	1S6 1	hSh1	47a-	4a06	4a0-	1M4a	dDl
5 wob mb	111 1	hShS	4a60	4717	4a4h	2M0	dDl
5 w8lmb	4- 1	0- S76h	0- hS72	020a20	0- 12a1	SM4a	dDl
5 w8lmb	44 1	12h4- h- 7	12612177	12- - a- - 0	124a7- hh	1M14	dDl
5 wpenC	12 1	h6S- 0- 0	h0a40- S	h004117	h0241ah	1M7-	dDl
5 wpenC	12 2	67644	0S106	01- S6	0SS42	1M41	dDl
5 G8hpdCr	- h 1	1a41S276	226a42- -	24hh0SSh	2222ShS7	11M0-	dDl
5 G8hpdCr	- h 2	17147h	172- 01	17h76h	17- 24S	1M26	dDl
5 Gpmb mb	h2 2	4- 000	4- SS7	42710	4- 2S1	1M17	dDl
5 new8T	ha 2	4h000	44744	44h7-	4hS67	1Ma	dDl
5 nDDr p	6- 2	141a06	1- 7620	1- 7044	1- a072	1M6	dDl
&El Dpnl mb	1h6 1	14h2- 0	14hha7	14hh62	14h466	SM14	dDl
&El Dpnl mb	1h6 2	6Shh-	h0041	h0hSS	h7ha7	2M4S	dDl
Fpemb	164 1	1S- 7aa	1S27h6	1S4a- S	1S- 7ah	1M8S	dDl
Fpemb	164 2	41076	4Saa-	41421	414SS	SM46	dDl
Hwon8Cmb	16S 1	121S2-	12277a	11a620	12117S	1Mh	dDl
Hwon8Cmb	16S 2	h0762	h6S01	hh00-	h6h6a	2M8S	dDl
y n8b mb	16h 1	aa7117S	1S2a4h1h	a70142-	1SS4aS4S	2M17	dDl
y n8b mb	16h 2	417h26S	4- - 7660	4- a7626	4- S0h17	2Mh	dDl
tComb	11h 1	01S420h	0- S07h2	027404S	02- 227a	1M14	dDl
tComb	11h 2	a44S7a	aa1- - S	a0h4- 2	a0S27-	2M17	dDl
tpnC	h4 2	4- 6- S- 6	421- - 10	41- h702	42- 04S7	2M0-	dDl
tpnC	h6 2	0701- h17	0646a046	00S401h2	0041S1- a	1M1	dDl
tpnC	h0 2	2S1h- SS	1a6- aS2	1a66h00	1a71a26	1M46	dDl
KpEDTnC	7- 1	- 60	41S	- hS	- 06	7M21	dDl
Lr wo	2S6 1	1- 024- 6	14SS467	1416140	1- a6- hS	1Ma	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 16	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU0S	&c8mTcnC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J1- J- a	&wTwUc8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	1162442	1101a14	116a10-	116074-	SM42	dDl
Lr wo	2S7 1	h67- 17a	h710a1a	h0aa1a4	h066060	1M20	dDl
LdTcmb	6 1	26401a0	26a1S7S	266- 46-	2660240	SM7-	dDl
9 wgCr l cmb	24 2	211266h	2117h06	2Sh727S	2Sa6hS0	1M1a	dDl
9 wCgwCr l r	hh 2	1602400	1642626	16- 2- 76	164a16-	1M26	dDl
9 n8Eeor Cmb	a4 1	2ah72	276hh	2aS7a	2a1Sa	1M1a	dDl
9 n8Eeor Cmb	ah 1	2S466	21- 0h	2SahS	2Sa- S	2M10	dDl
9 n8Eeor Cmb	a6 1	2h424	2h6h7	2h64a	2hh00	SM42	dDl
9 n8Eeor Cmb	a0 1	1- S1h	1- - h0	12771	1- S74	1M70	dDl
9 n8Eeor Cmb	a7 1	- - 124	- - 416	- - a10	- - 476	1M2S	dDl
u r noEb cmb	1hS 1	2hS24S	24aa6S	2h- 277	2h116-	SM04	dDl
u r noEb cmb	1hS 2	0670h	04h7-	0- 242	04aSS	2M4h	dDl
u cdkr 8	6S 2	2- - Sa	226S7	22SS0	22641	2M77	dDl
NGhl DGhpml	- 1 2	4410	4hha	4hha	4h12	1M71	dDl
NnTwl l cmb	- a 2	61- a7S	611a- h	61Sa11	61220h	SM26	dDl
. Ghocmb	1S- 1	6a61720	012h2- 1	0161hhS	0S7276a	1M1S	dDl
. Ghocmb	1S- 2	- 2424- S	- - a1aS4	- - 6h- 6a	- - - - 2- 4	2Ma	dDl
l dwCocmb	4h 1	4061h0S	47ah1h-	4074hha	471- 061	1M47	dDl
l dwCocmb	4h 2	144h60	1h217a	1h24- 4	14a0- S	2M4a	dDl
l r 8 Ccmb	72 1	2- S	1aa	226	217	0M72	dDl
l r 8 Ccmb	00 2	- SS	- S-	27-	2a6	- M0-	dDl
l r 8 Ccmb	07 2	107	10-	2SS	174	0M72	dDl
l c8dnC	27 1	aha6S2-	a02S- 0a	a46- 67a	aha- - 64	1M4	dDl
l c8vr p	1S0 1	1- aS0	1- 10-	1- h04	1- hh1	2M01	dDl
l c8vr p	1Sa 1	12647	1- - h0	1- 1h0	1- Sh4	2M7S	dDl
l nocmb	2- 2	01h- 4	02h7S	02hSh	022S6	SM71	dDl
l TpnCTcmb	76 1	20hh6a	27h2- 2	27S7a6	27Sh66	1M0-	dDl
l TpnCTcmb	77 1	2h4ha- 1	2614S6a	24a14- -	2hhS407	2M41	dDl
l m8mp	- 4 1	- 44h0a	- h2020	- hSS7a	- 4a1- 2	1M1a	dDl
Ar pecmb	1ha 1	1SS641- h	1S4404- 7	1S1a- 166	1S2- 4a1-	1M41	dDl
Ar pecmb	1ha 2	4SaSh61	42hS14h	42Sh6hh	417212S	1M40	dDl
AGw8cmb	2S- 1	4hh1	4067	4667	4662	2M-	dDl
AGw8cmb	2Sh 1	1Sa6-	112a0	1S6- S	1Sa6-	- M84	dDl
AdC	117 1	10- 0S	1002a	17162	100h4	2M24	dDl
AdTwCcmb	40 1	4SS6hS	- aa777	- a0677	- aa4Sa	SM7	dDl
RpwCcmb	2- 7 1	142171	14- ah-	14hhS-	14- 70a	1M16	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Drpw7hpJ	swl Pw8
Lwe:l wb D8:t&:J	3 - 447 16	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTl wb D8:t&:J	9 y SU0S	&8mTcnC:UwdThpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8:u wb r :J	111q. FUM

Nwpwb r Tr p	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	h1 2	067- h	0664S	0h4a1	06- 22	SM4h	dDl
YTTr pecmb	102 1	- S167	- S200	2a474	2aa06	1M4-	dDl
YTTr pecmb	102 2	14664	142- S	1- ah2	14272	2M11	dDl
YTTr pecmb	106 1	2S1- 2	2S2a1	2S7Sa	2S411	1M0-	dDl
YTTr pecmb	106 2	2S26S	2S607	21- 74	2S004	2M04	dDl
YTTpcmb	7a 1	142S02a4	14h- 1h40	14- 2- S6h	14- h- a6a	1M14	dDl
YTTpcmb	7a 2	146h007	1h- 1h11	1h11724	1hS- S- 7	2M24	dDl
ZdCd	66 2	17h24a	17S7h1	17- SaS	17- S6-	1M2S	dDl
ZqpdnCcmb	aS 1	46S00	47SSS	474S2	404a-	2M62	dDl
ZqpdnCcmb	a1 1	11S01	11177	1Sa1-	11Sh7	1M2h	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psmI Re:D :J	5 9 SF01	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112cC. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	yh77y7	y40- 01	y4Sy6-	y4yS00	SUy6	ql w
cn&AmonE	121 1	12Sy0	1- 1yS	12y2-	120- 0	4U40	ql w
crwenAq	0h 2	1- Sh6	120yh	12hhh	127S2	1Uy6	ql w
BsrAm	1- h 1	6yS122	6y6hh0	6yyS0h	6yh2h1	SU66	ql w
BsrAm	1- 0 1	11y- 0h4	12- hy71	1222hh4	12104- S	1U00	ql w
BerEFAm	y 1	6- - 4	6- 7y	6- 04	6- 66	SU4h	ql w
BAmu&G	2Sy 1	0Sh2777	6y6- - h4	0S- S117	0S1h4h-	SU66	ql w
BAmu&G	2Sy 2	- - 4h16S	- 2- S24-	- 2y220h	- 27y226	1U0h	ql w
BromAne	71 1	0hy4	0676	7227	07- 6	4U0	ql w
RsOmAm	1S7 1	66-	h60	0SS	64-	1SU6y	ql w
RsOmAm	1S6 1	h1Sy	hS74	h126	h1S0	SU41	ql w
RsOmAm	111 1	hyyy	627S	6S11	6Sy0	2U61	ql w
RsRqAm	4- 1	7SSS1S	7S6S77	7SSS42	7S2S40	SU44	ql w
RsRqAm	44 1	1- hy2hy4	1- h16441	1- 40S467	1- h26hS1	SU46	ql w
Rsrbon	12 1	h04027-	h76- 1- y	h0hy- 76	h07yy- 6	1U1S	ql w
Rsrbon	12 2	016y2	0S021	6yhh0	0S6h6	1Uh1	ql w
RGRorAne	- h 1	2Sy6S47y	24S022Sy	262776y0	2- 00- 0y7	11U26	ql w
RGRorAne	- h 2	17yy42	1yh6Sy	1y0h74	1y4- 0y	2US4	ql w
RGromAm	h2 2	h- 4h6	h- 10h	h2704	h- 167	SUhh	ql w
RobsR&	hy 2	hy667	6S200	h777h	hy61S	1U10	ql w
RoI I er	6- 2	2Sy721	2S7- y-	2Sy74-	2Sy- h2	SU4S	ql w
t EwI rowAm	1h6 1	16S701	160206	16- 7h7	164SS2	1Uyh	ql w
t EwI rowAm	1h6 2	6hS- 7	604yS	6h724	66110	1U7y	ql w
. rbAm	164 1	1212hS	12S174	11y7yS	12S441	SUhy	ql w
. rbAm	164 2	40414	406- 2	4011-	40- 76	SUhh	ql w
HsOoRAm	16S 1	1- h772	1- y- 10	1- y42h	1- 72S7	1U46	ql w
HsOoRAm	16S 2	6- h74	6- y22	64472	6- yy6	SU01	ql w
9 oRmAm	16h 1	1S1Sy64S	yy267y7	yy4S0- 6	yyy242h	1US2	ql w
9 oRmAm	16h 2	4- S7- hh	42- 60S4	4- 1S664	427h241	SUy7	ql w
DnOAm	11h 1	02S- 2y7	0S- y26S	0- Shh47	01720S2	1U70	ql w
DnOAm	11h 2	y04h61	yhS1S2	y4y7yS	yh717h	1U47	ql w
Don	h4 2	4yy0y- S	47776- S	4776110	4y24226	1U-S	ql w
Don	h6 2	7yhyh621	770- - 601	7y46S6y6	7y26- - - S	SUh2	ql w
Don	h0 2	2- 4S- 6y	2- S706y	2- - 62hh	2- 27464	SU04	ql w
KrEI &on	7- 1	411	- 00	- 7y	- y2	4U-7	ql w
LesO	2S6 1	14- h1S4	146h12h	14612h0	14h- 72y	1U12	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SF01	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
LesO	2S0 1	12S24hS	122yh07	1221602	1210ySS	1U1h	ql w
LesO	2S7 1	hy067- 1	612117h	6Sy- - h2	6S6- 07y	1U26	ql w
LA&GAum	6 1	20S462-	261yh10	26S77S2	2644- 14	1Uyy	ql w
5 sgnewAum	24 2	2227S4y	2204S2h	2242722	22472y7	1US4	ql w
5 sngsnewe	hh 2	211h77S	2S74662	21202S7	21Sy2hS	1US4	ql w
5 oPEbOenum	y4 1	4- 611	44- y6	44y04	44- 20	1Uh4	ql w
5 oPEbOenum	yh 1	274Sh	274hh	2y272	27014	1U02	ql w
5 oPEbOenum	y6 1	- h67S	- hS- 0	- h722	- hh1-	1U17	ql w
5 oPEbOenum	y0 1	10h- 0	17212	10y12	10770	1U7y	ql w
5 oPEbOenum	y7 1	46261	407SS	4h- 7-	46471	2U6-	ql w
NeoOEmAum	1hS 1	20S710	200y61	2724- 1	200S0S	2U11	ql w
NeoOEmAum	1hS 2	71y06	7- 244	72211	72400	SU72	ql w
NAqkeP	6S 2	- 1S00	- 1- - h	- 1- S7	- 124S	SU4h	ql w
8 GowI Goruw	- 1 2	h7S1	h71S	h- hy	h6h0	4Uhh	ql w
8 o&swwAum	- y 2	614607	6S7- 6h	6111h1	611- y7	SUh2	ql w
CGoOAum	1S- 1	012- y- S	6yyy122	0Sh6- h0	0Shy7S-	SU77	ql w
CGoOAum	1S- 2	- - - 2S0y	- 22ySSh	- 2y167-	- 2742h6	1Uh7	ql w
pqsnOAum	4h 1	47h0064	4011h2-	40S764h	40hy- 11	1U0y	ql w
pqsnOAum	4h 2	14y2h0	14hy6-	140h6h	140hyh	1U12	ql w
pe&enAum	72 1	24y	- Sy	- Sy	27y	12USS	ql w
pe&enAum	00 2	20S	- S-	- SS	2y1	6U1	ql w
pe&enAum	07 2	1y4	1y1	1y2	1y2	SU0y	ql w
pAAqon	27 1	y46y6SS	1SSyhyy-	yh7y0h2	y017447	- U42	ql w
pAPer	1S0 1	14S24	1424y	141- -	141- h	SU7S	ql w
pAPer	1Sy 1	1- 16h	14- y1	1- - S0	1- 621	4Uy2	ql w
poOAum	2- 2	yh42S	yh2- h	y46y7	yh117	SUy	ql w
p&on&Aum	76 1	- 6- 026	- h7yS2	- h- 67y	- h7002	1U4S	ql w
p&on&Aum	77 1	- 1y61h0	- 27Syy-	- 260- - 6	- 247162	1U4S	ql w
pu&Pur	- 4 1	- h722S	- 0SS20	- 01762	- 660S-	2US2	ql w
i erbAum	1hy 1	1S- 02S4-	1SS26h2y	1S1y- 166	1S1y0246	1U6y	ql w
i erbAum	1hy 2	4S6y447	4S7- 017	421S202	4121146	1U77	ql w
i GsPAum	2S- 1	h41S	h467	h226	h- 67	2Uh	ql w
i GsPAum	2Sh 1	12047	1244S	1- 4h0	12772	4USh	ql w
i A	117 1	- 1h0y	- - S4y	- - h60	- 20- 2	- U1h	ql w
i A&snAum	40 1	- 1472y	- 1626S	- 1h- 47	- 1h40y	SU2-	ql w
MrsnAum	2- 7 1	167140	10S0- 0	167yy2	16y2y2	SU07	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SF01	t Ra&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J- -	t s&sFAe:Nsme:J	112c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h1 2	yhS0-	y20y7	y- 42y	y- 060	1U2h	ql w
Y&erbAum	102 1	- 2yh7	- 422y	- - 700	- - 677	1Uyh	ql w
Y&erbAum	102 2	16S00	166- 7	1hy1S	162S7	2U6	ql w
Y&erbAum	106 1	22h76	2- 6hh	22062	2- SS1	2U4y	ql w
Y&erbAum	106 2	22- h-	22141	21046	22S7S	1Uy	ql w
Y&&Aum	7y 1	14h- 1- SS	1442- 76y	146467S7	14h- - yy2	SU00	ql w
Y&&Aum	7y 2	1h1426y	147- 220	140y- yS	14y22yh	1U27	ql w
ZAnq	66 2	177761	176616	172h7y	176S22	1U01	ql w
ZAqonAum	yS 1	0hy4y	0h0yy	0612h	0hyh0	SU21	ql w
ZAqonAum	y1 1	16yS2	10S44	100yh	10240	2U07	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0hh062	0h6ahh	0420hS	0h1722	1N8h	dDl
qCTb nCE	121 1	220S-	2- 021	24S14	2- 40a	2M4-	dDl
qpl r Ccl	0h 2	14006	14047	140Sa	14044	SM2-	dDl
Bwpcmb	1- h 1	670aS2	6a2S61	60S4h6	67- 40-	1M07	dDl
Bwpcmb	1- 0 1	121h64S	121aS76	11716- a	12Sh4hh	1M02	dDl
Br pE8mb	a 1	- a64	4S- 4	- 724	- a4S	2M01	dDl
Bdl b mTG	2Sa 1	026- 6- 0	01712- 0	02- - a67	0226271	SM17	dDl
Bdl b mTG	2Sa 2	- 1S4ah0	- - a- aS0	- h01hS6	- - h60aS	0N81	dDl
Bpmb cCr	71 1	0220	0644	027h	0- 76	- N86	dDl
5 wob cmb	1S7 1	16S4	1aSS	1060	10h0	7M4-	dDl
5 wob cmb	1S6 1	6- 20	6- 00	62- h	6- 1-	1M14	dDl
5 wob cmb	111 1	1h46h	1h610	1h2hS	1h444	1M1a	dDl
5 w8lcmb	4- 1	h17a- 1	h21- 2a	h1616h	h177S7	SM1S	dDl
5 w8lcmb	44 1	77a6h16	707h1a-	771164a	77- 111a	SM06	dDl
5 wpenC	12 1	0640Sh2	07- 2S72	07h62- -	00074hh	1M40	dDl
5 wpenC	12 2	ah- 2h	ahh6a	a- 7Sa	a4aS1	1N81	dDl
5 G8hpCr	- h 1	22S0hS64	2h1ah1S7	2607h27S	2467h1h1	aM01	dDl
5 G8hpCr	- h 2	1a7624	2S40S7	2Sh4hS	2S2a20	1M7h	dDl
5 Gpmb cmb	h2 2	ha024	ha142	ha202	ha- 0a	SM11	dDl
5 new8T	ha 2	4- 272	4- - 0a	417h7	4274S	1M1a	dDl
5 nDDr p	6- 2	- a166-	- aS664	- 76006	- 7a0S1	SM06	dDl
&El Dpnl cmb	1h6 1	1124a7	11SS2S	1S7h7a	11S- 6a	1M0a	dDl
&El Dpnl cmb	1h6 2	442a6	4- 27-	4- 440	4- 606	1M2h	dDl
Fpecmb	164 1	0- 046	0hS2S	041aa	04- 22	SM70	dDl
Fpecmb	164 2	2a41-	2aS7a	2a67S	2a- a4	1N81	dDl
Hwon8Ccmb	16S 1	aSS0a	a1a42	a2a16	a1646	1M10	dDl
Hwon8Ccmb	16S 2	4211-	422a0	42SS-	421- 7	SMlh	dDl
y n8b cmb	16h 1	1S1hSh17	1S1h- 4- S	1SShh77-	1S11aa44	SM1h	dDl
y n8b cmb	16h 2	- a7S- hh	4227aSa	4626h6h	420761S	0M62	dDl
tCocmb	11h 1	02h0h14	0ha0114	0404aa4	044- 2S7	2M1	dDl
tCocmb	11h 2	7a- 021	a02aSa	1Sh1S70	a02h02	7N8a	dDl
tpnC	h4 2	- 74hh42	- 07- 74a	- 020166	- 07hh1a	1M16	dDl
tpnC	h6 2	6a2246- h	6a- 1h- S6	60aaSa- -	6774- 62h	1N80	dDl
tpnC	h0 2	1071aa-	10740ha	10- 766h	1067402	1M46	dDl
KpEDTnC	7- 1	- 4a	- S2	- 42	- - 1	0M10	dDl
Lr wo	2S6 1	1S6a24- 0	1Sh207S2	1S4a777a	1Sh0- S4-	SMla	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	770Saah	7aS746-	aS4- 041	7a41S66	1M82	dDl
Lr wo	2S7 1	422S1242	416- 402S	4210a1a-	42SShSh1	SM06	dDl
LdTGmb	6 1	26h6aa4	2044440	267a01-	26a0Sh2	1M04	dDl
9 wgCr l mb	24 2	1hh- ha1	1h24ha-	1471S62	1h1a04a	2M4S	dDl
9 wCgwCr l r	hh 2	16- 0- 40	16- - 42S	1h7h100	1617647	1M0a	dDl
9 n8Eeor Cmb	a4 1	22007	2227h	216h1	222- 7	2M14	dDl
9 n8Eeor Cmb	ah 1	1aS14	17- 2a	17h6-	176- h	1M70	dDl
9 n8Eeor Cmb	a6 1	222S1	2- 2S-	22217	22h41	2M14	dDl
9 n8Eeor Cmb	a0 1	11040	12102	12- - a	12S76	2M1-	dDl
9 n8Eeor Cmb	a7 1	- S426	- S- 2h	- SSha	- S20S	SM0-	dDl
u r noEb cmb	1hS 1	1a6h26	1a6- S1	1a21h7	1a4aah	1M26	dDl
u r noEb cmb	1hS 2	h712a	h6760	h02- 2	h04Sa	1M1-	dDl
u cdkr 8	6S 2	2h- a6	2hS1h	2- h- -	24647	- M4a	dDl
NGhl DGhpm	- 1 2	6hh2	01S2	67h2	67- h	4M8-	dDl
NnTwl l cmb	- a 2	021S1a	0S7h62	6aahha	0Sa014	1M12	dDl
. Ghocmb	1S- 1	0217S7-	0- h74hS	027S16-	027hh6h	SM40	dDl
. Ghocmb	1S- 2	2aah027	- 2a2627	- 4a62aS	- 261h4a	0M02	dDl
l dwCocmb	4h 1	47ah602	40a1h00	4007hah	4721a47	1M-	dDl
l dwCocmb	4h 2	1- 4hSh	146- - 4	1ha727	14677a	7M0-	dDl
l r 8 Ccmb	72 1	22S	262	106	22S	1aM04	dDl
l r 8 Ccmb	00 2	2S-	170	1a-	1a4	4M1	dDl
l r 8 Ccmb	07 2	146	124	14a	14S	aM07	dDl
l 8dnC	27 1	1S- 0- - - 4	1Sh204S7	1S41S- 02	1S4- 0S- 7	SM00	dDl
l 8vr p	1S0 1	000- 6	07- 72	7241-	0ah1S	- M1a	dDl
l 8vr p	1Sa 1	0h441	0676h	02- 72	047a6	- M86	dDl
l nocmb	2- 2	1722h0	10771a	1007- -	10a6- 6	1M2a	dDl
l TpnCTcmb	76 1	- 4aS6S	- h4- 7a	- 470S2	- hS010	SM41	dDl
l TpnCTcmb	77 1	- 2hS4S7	- 1a04S6	- 2204- 2	- 22hS72	SM72	dDl
l m8mp	- 4 1	4276- 0	4- 2711	42a776	4- S44h	SM1S	dDl
Ar pecmb	1ha 1	1ShS4720	1S41- 160	1S40- 14a	1S46- 01h	SM44	dDl
Ar pecmb	1ha 2	- 0a22- 4	41- 1012	4haha0-	410- - S6	aM00	dDl
AGw8cmb	2S- 1	4S- 4	- 606	- aa2	- aS1	hM8-	dDl
AGw8cmb	2Sh 1	a470	a001	a60a	a646	1M1S	dDl
AdC	117 1	hSS2h	h26- h	h1112	h12h7	2M16	dDl
AdTwCcmb	40 1	44a1aS	4460aa	446h- 6	440hS7	SM-	dDl
RpwCcmb	2- 7 1	1S- 144	1SS04S	1S2a2h	1S220S	1M1S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 17	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU02	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	h1 2	7- - 07	727- 2	724h6	7277a	SM16	dDI
YTTr peomb	102 1	2S266	2SSa1	2S2S7	2S177	SM44	dDI
YTTr peomb	102 2	aha7	a7S4	ah0S	a6h0	1M2	dDI
YTTr peomb	106 1	1470h	14hSS	140hS	140Sa	1MS	dDI
YTTr peomb	106 2	16201	17S7h	17a1a	100ha	0M62	dDI
YTTpomb	7a 1	14- ha0a1	14- h4271	14- 0h2- 4	14- 6- 1S2	SM37	dDI
YTTpomb	7a 2	1- - 20a1	14- 2411	1hha2a6	14414aa	0M77	dDI
ZdCd	66 2	h1SS7S	hS6a04	4aa- h1	hSh467	1M8a	dDI
ZqpdnComb	aS 1	- 20a7	- 1- 76	- 11a4	- 10a2	2M06	dDI
ZqpdnComb	a1 1	011S	0- 44	01- h	01a6	1M07	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU0-	&8mTmCJJwdThpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a22a2-	&wTwJu8 Ju wb r Ja	114q . FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
q8mb cCmb	20 2	667017	667022	661- 62	666260	SM04	dDI
qCTb nCh	121 1	1: 7E0	1: 0: S	17: 02	1: E- :	2N42	dDI
qpl r Ccl	0E 2	146E-	14- 0E	141: S	144S6	1N02	dDI
Bwpcmb	1- E 1	E00: 21	E0: S2-	E0- 2S:	E06017	SN44	dDI
Bwpcmb	1- 0 1	1S2026E	1S20- 22	1S11717	1S221- E	SM10	dDI
Br ph8mb	: 1	- EEE	- 61:	- E71	- E7E	SM1:	dDI
Bdl b mTG	2S: 1	011: 2S2	01241S7	0SS4760	0S72026	SMIE	dDI
Bdl b mTG	2S: 2	- 2770S0	- 276E- :	- 26E64E	- 27S2: 0	SM1:	dDI
Bpmb cCr	71 1	667E	6- 67	6217	6424	- N01	dDI
5 wob cmb	1S7 1	16S4	1746	10S7	102S	0N8E	dDI
5 wob cmb	1S6 1	E726	6267	6S67	6SE4	- N0E	dDI
5 wob cmb	111 1	2- 27:	2- S: 0	2246S	22: 47	1M1:	dDI
5 w8lcmb	4- 1	27- S- 0	27E- 02	274610	274- 42	SM42	dDI
5 w8lcmb	44 1	471767-	4746606	ES2E211	47: 67E0	2M2:	dDI
5 wpenC	12 1	- 072E21	- : : : 407	- : 27E02	- : S- E24	2M1-	dDI
5 wpenC	12 2	4616E	40076	46247	460- -	1MIE	dDI
5 G8hpcCr	- E 1	2SS0- 4S1	2- 1762- 7	24746100	220S1: - :	1SN00	dDI
5 G8hpcCr	- E 2	172E: S	174ES:	176SE:	174- 76	SM14	dDI
5 Gpmb cmb	E2 2	- : 017	- : : E:	- : : 42	- : 70-	SM14	dDI
5 new8T	E: 2	- - 67S	- - 16E	- - - E2	- - - : :	SN07	dDI
5 nDDr p	6- 2	- - 1: 06	- - 41E2	- - - - 0-	- - - 160	SM-	dDI
&hl Dpnl cmb	1E6 1	04700	06: : 7	06670	06170	1NES	dDI
&hl Dpnl cmb	1E6 2	- 1260	- 11: 6	- S- 01	- S: 4E	1N01	dDI
Fpecmb	164 1	E4- S-	E- 610	E- 7E1	E- : 24	SN0E	dDI
Fpecmb	164 2	2S64:	2S71-	21S6S	2S741	SM:	dDI
Hwon8Cmb	16S 1	6- - 67	6- - S:	622EE	62: 07	SM1:	dDI
Hwon8Cmb	16S 2	- SS40	- SSS0	2: S07	2: 011	1M74	dDI
y n8b cmb	16E 1	1S- 14: 17	1S1671- 6	: : 0E744	1S1E2: 66	1N00	dDI
y n8b cmb	16E 2	414SSSE	4242EE:	42EE1: 4	4212E76	1NES	dDI
tCocmb	11E 1	0- 201S4	0- S01E:	04EE- E:	0- 6- 2S0	1N8:	dDI
tCocmb	11E 2	: 64- EE	: E4644	: ES16E	: E6- 77	SN06	dDI
tpnC	E4 2	- SE76S7	- SE2700	- S2211S	- S44E- 1	SN04	dDI
tpnC	E6 2	EE1E7612	E402S267	E40S171S	E476S2- S	SM40	dDI
tpnC	E0 2	1- S47: :	141E21:	127E4- 1	1- - E17-	EM24	dDI
KphDThC	7- 1	- S6	- E1	- 26	- 27	6M70	dDI
Lr wo	2S6 1	E1S- S01	E104: 76	ES: 21S-	E12- - 70	SM17	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU0-	&c8mTcnCJJwdThpla	1
&wTr J JAcb r JqdCmpr o Ja	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q . FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
Lr wo	2S0 1	4261260	4- : : 4- -	4- SE2S1	4- 21: 60	1M6-	dDl
Lr wo	2S7 1	1: : 40: 06	2S4: 0EE2	2SS2S260	2S1EE26E	1M47	dDl
LcTGcmb	6 1	26: 7E01	20E67- 2	206SE1E	20- 76- :	1M20	dDl
9 wgCr l cmb	24 2	7676SS	7E0: 6:	766: E-	764ES0	SM06	dDl
9 wCgwCr l r	EE 2	142274E	1206- : -	1- 7E: 26	1- 61021	EM4:	dDl
9 n8heor Cmb	: 4 1	2- 262	22: 11	22: 07	2- SES	SM71	dDl
9 n8heor Cmb	: E 1	2S- 04	2S74:	2S172	2S467	1M67	dDl
9 n8heor Cmb	: 6 1	2- 6- 0	2E- 66	242EE	2441:	- M4:	dDl
9 n8heor Cmb	: 0 1	14S: :	1- - 72	120: S	1- 424	4M7:	dDl
9 n8heor Cmb	: 7 1	- - SS0	- 47E-	- 2: 71	- - 614	- M1:	dDl
u r nohb cmb	1ES 1	1- 0: S7	141161	1- EE07	1- 7216	2M8-	dDl
u r nohb cmb	1ES 2	41702	4S: 16	4S444	41S00	1M00	dDl
u cdkr 8	6S 2	1: 01S	1: E74	1: 400	1: E: S	SM0S	dDl
NGhl DGhpml	- 1 2	- 2S:	- 4S:	- 6- 4	- 410	6M22	dDl
NnTwl cmb	- : 2	4- S- 0:	421- - 1	4212E7	424- 2-	1M24	dDl
. Ghocmb	1S- 1	026E- E0	0- 24- 21	01600: 7	02E24: 2	1M8:	dDl
. Ghocmb	1S- 2	- 2: 67: 7	- 20EE1S	- 2267E2	- 26642S	1M1S	dDl
l dwCocmb	4E 1	406E011	47- E774	40404- 0	407- S11	SM17	dDl
l dwCocmb	4E 2	140E42	14000E	1466S0	140- S7	SM42	dDl
l r 8 Cmb	72 1	1E0	122	1E1	144	12M7	dDl
l r 8 Cmb	00 2	16-	14S	1- -	146	1SM72	dDl
l r 8 Cmb	07 2	11S	1S1	: S	1SS	: M7	dDl
l c8dnC	27 1	76- - - 42	77: : E0:	700EE- -	706: 47E	1M42	dDl
l c8vr p	1S0 1	- 76- S	- : 742	4S644	- : 0SE	2M4E	dDl
l c8vr p	1S: 1	- 061S	- 7S2S	- 6: S:	- 0E1-	1M4S	dDl
l nocmb	2- 2	1: 17S7	1: S72-	1: 1SS6	1: 121-	SM20	dDl
l TpnCTcmb	76 1	- 147- E	- 1E2- E	- 1- 11S	- 14- : -	SM16	dDl
l TpnCTcmb	77 1	2: 2S644	2: : 6: - 4	2771174	2: - 2: 21	2M81	dDl
l m8mp	- 4 1	- 4- E02	- - 7007	- 4- SE1	- 417SS	SM00	dDl
Ar pecmb	1E: 1	1S- 62E24	1S2: 21E2	1S267- 2E	1S- S0660	SM47	dDl
Ar pecmb	1E: 2	4116: 4:	41- SS0S	4S: S2- -	4112410	SM4:	dDl
AGw8cmb	2S- 1	2: 74	- SES	- 210	- S74	- M1S	dDl
AGw8cmb	2SE 1	0461	0220	6: 00	0222	- M1E	dDl
AcC	117 1	- 20: 7	- 441:	- 2464	- - 220	- M1E	dDl
AcTwCcmb	40 1	- 47426	- 612: 1	- E47- 2	- E47ES	1M71	dDl
RpwCcmb	2- 7 1	7: SE4	7: 60E	: S1- 6	7: 622	SM01	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwThpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TLu wb r Ja	N7
5 8r CTI wb D8 Jt&Jal	9 y SU0-	&8mTmCJUwdThpla	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	E1 2	74700	7EEES	747S-	7ES06	SM47	dDI
YTTr peomb	102 1	1E: : -	16- S2	16- 6:	16221	1M4-	dDI
YTTr peomb	102 2	7SS-	0ES7	066-	002E	- M40	dDI
YTTr peomb	106 1	111: 0	11622	11S22	1127S	2M04	dDI
YTTr peomb	106 2	16220	16S: -	16- 44	16221	SM00	dDI
YTTpomb	7: 1	14S6E: 16	1426072S	1- 7S6: 04	14S46: S-	1M64	dDI
YTTpomb	7: 2	1- : 6- S2	14270EE	1- 2744:	1- 74ES2	- M0S	dDI
ZdCd	66 2	621E24	621S- 1	62260:	62104E	SM14	dDI
ZqpdnComb	: S 1	- S726	- S20E	- 17E4	- S: 7E	2ME:	dDI
ZqpdnComb	: 1 1	0SS2	6620	016S	6: - S	- MIE	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.uwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

Nwpwb r Tr p	R wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl R r w.	3 Nl 5 l &	M. dT
q8mb c mb	20 2	1917S6y	19S047S	1J720J9	1JJ442J	2F7J	dDl
q. Tb C. h	121 1	2047467	266117J	26y6412	26J0SS4	1FJ2	dDl
qpl r . cl	0y 2	62621	627S1	6122y	62S49	1F1J	dDl
Bwpmb	17y 1	7SS04J6	2JJ112J	292yS02	2970J9y	2F1J	dDl
Bwpmb	170 1	y12yJ60	yS22yJy	y1S1JJ4	ySJ744y	1FS6	dDl
Br ph8mb	9 1	62Sy04	6124J0	6S4J24	61262J	1F29	dDl
Bdl b mlE	2S9 1	6742Jy1	6S07042	y946460	6121S2S	7F71	dDl
Bdl b mlE	2S9 2	204414S	2J79169	20SJ1SJ	2067JS6	2F4y	dDl
BpCb c r	J1 1	4192	42S1	441J	420S	2F99	dDl
3 wob mb	1SJ 1	y742J	y191S	y199J	y244y	1F67	dDl
3 wob mb	1S6 1	04447	07701	07S61	0762y	SF9J	dDl
3 wob mb	111 1	621407	61J70J	612Jy9	610y0S	SF01	dDl
3 w8lmb	47 1	7092JJ1	7JS2Sy0	70776S0	70061J1	SF9J	dDl
3 w8lmb	44 1	6S940960	61S12246	y9SyS016	6S776906	1FJy	dDl
3 wpeC.	12 1	260S971	20y01y4	2042JS6	202767S	1F0S	dDl
3 wpeC.	12 2	766y4	7y67y	7y7S1	7yJ64	1F90	dDl
3 E8Cpc r	7y 1	111S02S	1S42690	1S72969	1S62129	7F99	dDl
3 E8Cpc r	7y 2	6994	01S2	6J47	69JS	1FJ6	dDl
3 EpCb mb	y2 2	66S012	6yJ940	6y1S9S	6y6916	SF0J	dDl
3 Cew8T	y9 2	11J070J	110429S	11606S9	1106426	SFJy	dDl
3 CDDr p	67 2	9J16121	90y7S99	9644yJ9	9070976	SFJ9	dDl
&hl DpCl mb	1y6 1	042	0J7	60y	077	0F4y	dDl
&hl DpCl mb	1y6 2	740	70S	77S	749	yF06	dDl
Gpemb	164 1	1yJ	160	1yJ	161	2F9J	dDl
Gpemb	164 2	yS	y0	00	61	22F01	dDl
HwoC8c mb	16S 1	0SJ	00y	0J7	0y6	yF44	dDl
HwoC8c mb	16S 2	ySS	4J7	440	400	yF02	dDl
KC8b mb	16y 1	9699S46	9262SJ1	91J1620	97JS91J	2F90	dDl
KC8b mb	16y 2	700S29y	7009S69	707J700	7062yJS	SFy0	dDl
t. omb	11y 1	660S6Sy	67J7S40	6790y20	64J7020	2FyS	dDl
t. omb	11y 2	J2914y	J11242	J16499	J1J962	1F12	dDl
tpC.	y4 2	000JJS6	0911y2y	06y0J6J	00J2077	1F67	dDl
tpC.	y6 2	144S64192	142y221y9	17976y160	1419J7J79	1F69	dDl
tpC.	y0 2	76J121y	7611J22	7646266	7646474	SF9y	dDl
gphDTC.	J7 1	210	2yS	294	2y4	1yFSJ	dDl
Lr wo	2S6 1	120079y4	124SS79S	122S014S	1246S494	2F71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r Tuwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

Nwpwb r Tr p	R wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl R r w.	3 Nl 5 l &	M. dT
Lr wo	2S0 1	1S9y0646	1S0S617S	1S70yyyS	1S60900y	2F07	dDl
Lr wo	2SJ 1	yS0y9620	4926SJJ9	4J4y7y41	494917y2	2F76	dDl
LdEcmb	6 1	27212J0	229762J	226Sy44	2291J2S	1F77	dDl
R wk. r l cmb	24 2	26622y21	26216227	267J6S7S	264SJ2yJ	SF00	dDl
R w. kw. r l r	yy 2	76S1747	76S4S6S	7y200Sy	7y000S7	1F21	dDl
R C8heor . mb	94 1	90649yS	90Jy20J	949271J	96JSJ49	1F69	dDl
R C8heor . mb	9y 1	14406296	14772y9S	17020049	1410JJ0J	2FJS	dDl
R C8heor . mb	96 1	1yy66467	1y9y77SJ	14JSSJS0	1y44S197	7FJS	dDl
R C8heor . mb	90 1	JJ116y9	J9901yS	J411J2S	J04S21S	7F42	dDl
R C8heor . mb	9J 1	220J6y2y	2266J219	22127JJS	22y262SJ	1Fy0	dDl
u r Cohb cmb	1yS 1	240	2SS	207	24S	1yF46	dDl
u r Cohb cmb	1yS 2	77	20	6S	4S	44FS9	dDl
u cdvr 8	6S 2	71JSyy	71J606	7149J9	71024S	SF62	dDl
NECl DECpml	71 2	19S21	1J996	1J409	1JJ72	1F67	dDl
NCTWl l cmb	79 2	Jy7S77y	J41y176	J261yS9	J4S2726	1F61	dDl
5 ECocmb	1S7 1	676S1S6	619S9SS	6S1y412	61JJJS6	2F0J	dDl
5 ECocmb	1S7 2	202SyJ4	26y6S6J	262S1J0	266y617	1F91	dDl
l dw. ocmb	4y 1	47S49S9	41y1299	4Sy0224	4101144	7FSS	dDl
l dw. ocmb	4y 2	120S9S	124666	12426y	12y74S	1F22	dDl
l r 8 . cmb	J2 1	46204	4y9JS	4yS4y	4y066	1F4S	dDl
l r 8 . cmb	00 2	140S	179S	176S	14S0	4FS4	dDl
l r 8 . cmb	0J 2	44SJ	4770	42J9	474y	1F7J	dDl
l 8dC.	2J 1	2J744491	209y0yS4	20y0yJS9	209y926J	1F70	dDl
l 8r p	1S0 1	7796J40	747yS20	720661J	7769490	2F4y	dDl
l 8r p	1S9 1	72699SS	71J2020	72S1916	721J1J1	1F42	dDl
l Cocmb	27 2	402JS444	46J0y99y	40JSJ2S4	40721y4J	SF99	dDl
l TpC. Tcmb	J6 1	19y4494S	1J92y071	1J496SSJ	1J9JJJ97	2F0J	dDl
l TpC. Tcmb	JJ 1	160047S9y	167J06409	1620J944y	164JS7SS6	1FyJ	dDl
l m8Vmp	74 1	y6Sy99	yy41S6	y4911S	yy46Sy	1FS4	dDl
Ar pecmb	1y9 1	9J70S67	97yy6S9	974J007	9y17J1y	2F94	dDl
Ar pecmb	1y9 2	7047167	76y0090	76J9760	7696006	1F10	dDl
AEw8cmb	2S7 1	7SJJJSS	299021S	297yy14	7SS010y	2Fy6	dDl
AEw8cmb	2Sy 1	0179904	6906472	6J19746	690JyJ4	2F7S	dDl
Ac	11J 1	2246Jyy	219J91J	214S092	219yy22	2F42	dDl
AcTw. cmb	40 1	709021y	701y4y7	7640y67	702SS00	2FS1	dDl
Mpw. cmb	27J 1	1S629277	1S27010S	1S26929S	1S70Jy6y	2F1S	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:I wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.u wb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

Nwpwb r Tr p	R wl l	3 NI 1	3 NI 2	3 NI 7	3 NI R r w.	3 NI 5 l &	M. dT
- w. wocmb	y1 2	y2201J	y17S2S	yS66y0	y14172	1Fy0	dDl
YTTr pecmb	102 1	1yJ	210	142	102	22FJ0	dDl
YTTr pecmb	102 2	1S6	60	J9	J0	22F42	dDl
YTTr pecmb	106 1	17066	17699	17924	17096	SFJ4	dDl
YTTr pecmb	106 2	14992	1y72S	1490S	1yS94	1F7S	dDl
YTTpcmb	J9 1	1229766J	11J7262y	11y6JSyJ	11J9J110	7FS9	dDl
YTTpcmb	J9 2	1124J77	1SJ9220	1SJ6219	11SSS97	1F9y	dDl
Zc d	66 2	114J1S0	1149y16	114yJ42	1140J22	SF16	dDl
ZqpdC. cmb	9S 1	4yy109S	4y9y121	44S09Jy	4y1J299	2F10	dDl
ZqpdC. cmb	91 1	9J922S	99466y	9y7J62	909249	2F26	dDl

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Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame cqduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MC&w
cRmACAm	2072	1: 9	166	1y9	1: 2	: FS2	ql w
cC&AmnCh	12171	: - -	1S42	12- -	1S- 6	1yF- 1	ql w
crweCAq	0972	:	0	1-	y	- 4F44	ql w
BsrAm	1- 971	19S	142	9S	114	4: F02	ql w
BsrAm	1- 071	2: -	2SS	1S:	1y0	44F- :	ql w
BerhFAm	y71	1- 4	11S	: 6	11S	21F9y	ql w
BAmu&E	2Sy71	60261S2	601yy26	66y1- y1	601240-	SF2:	ql w
BAmu&E	2Sy72	26: 002:	- 21: y6:	- 221040	- S42: 19	1SF11	ql w
BrnmACe	: 171	- : 42	- ySy	- y42	- : y:	1F- 1	ql w
3 sOmAm	1S: 71	1-	9S	10	26	00F: :	ql w
3 sOmAm	1S671	- 460	- - - 4	- 060	- 92-	6F- S	ql w
3 sOmAm	11171	4- S	4- 2	461	441	- Fy0	ql w
3 sRqAm	4- 71	- y1	- 09	2y9	- 94	14F96	ql w
3 sRqAm	4471	44- 91	4- 2- 0	42: : 1	4- 4: y	1F06	ql w
3 srbnC	1271	2- - : S44	2- 2- 9SS	2- 40y1y	2- - 64: 0	SF9-	ql w
3 srbnC	1272	20: 00	2: 1y4	20: : 6	20y: 6	SF69	ql w
3 ERnrACe	- 971	y4S21-	y2y412	y162: 0	y2: 6- 0	1F2y	ql w
3 ERnrACe	- 972	6- 6:	64- 9	6S4-	62: 2	- F- 4	ql w
3 ErnmAm	9272	y6S	1110	1160	1S: 1	yFy0	ql w
3 nbsR&	9y72	11S	1S0	1SS	1S6	4F: 2	ql w
3 nI I er	6- 72	210S	2264	2S90	2164	4F0:	ql w
t hwI rnwAm	19671	9S	S	S	10	10- F21	ql w
t hwI rnwAm	19672	S	-	-	2	: 6F6S	ql w
. rbAm	16471	9S	42	9:	9S	16F66	ql w
. rbAm	16472	0	10	2-	16	9- FyS	ql w
GsOnFACAm	16S71	29	60	y2	61	99F11	ql w
GsOnFACAm	16S72	y0	19-	14S	1- S	22F0y	ql w
HnRmAm	16971	y0660: 9	y- - : 611	y299y4y	y49- 0: 2	2FyS	ql w
HnRmAm	16972	- 4y66S2	4S- 9- S:	41- : - 0y	- : ySSy6	: F: 6	ql w
DDOAm	11971	6y09946	0S2: 409	66y- 00-	6: yy264	2F61	ql w
DDOAm	11972	0y0S4-	y- : : : :	y49y4S	: y- y90	yF4S	ql w
DnC	9472	060	0y9	6: y	09S	0F- S	ql w
DnC	9672	y961	1S62y	0yy-	y- y4	14F12	ql w
DnC	9072	- 02	- 11	- 2:	- - 0	yF- 0	ql w
KrhI &nC	: - 71	242	292	249	240	2F11	ql w
LesO	2S671	1096	1660	1460	16- S	yFS:	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 ReC&psml Re D J	3 3 BS26	t AR&NC Usq&ar J	1
t s&e T i Ame cqduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
LesO	2S071	1911	1422	1- SS	1411	0F91	ql w
LesO	2S: 71	0S49	6062	9096	6921	1SF- y	ql w
LAEAum	671	29219yy	2- 64: - 0	2- y2- 6S	2426269	- F49	ql w
RsgCewAum	2472	2142	1- 10	y: -	14: 1	4SF2y	ql w
RsCgsCewe	9972	190	2: S	2S-	21-	2yF1y	ql w
RnPbOeCum	y471	11S:	yy2	6y2	y- 1	2- F1S	ql w
RnPbOeCum	y971	119:	1- SS	: y2	1110	1: F90	ql w
RnPbOeCum	y671	16SS	129S	y29	129:	26F. -	ql w
RnPbOeCum	y071	: 09	0S:	49:	6: 1	- SF. 2	ql w
RnPbOeCum	y: 71	2229	10y2	12: -	1060	26F6:	ql w
NenChmAum	19S71	2S	1-	0	1-	4yFyy	ql w
NenChmAum	19S72	S	-	S	1	10- F21	ql w
NAqkeP	6S72	00	11S	yS	y2	1: F1y	ql w
8 EnwI Enruw	- 172	09	y2	160	111	4- Fy9	ql w
8 n&swwAum	- y72	14904	14- 66	1- 6yS	1421S	- F29	ql w
5 EnOAum	1S- 71	0S: 1226	60: - 1S4	6: 9S260	6yS4: 66	2F26	ql w
5 EnOAum	1S- 72	2041- 01	- 192yyS	- 2Sy99y	- S- 464S	: F42	ql w
pqsCOAum	4971	44091y2	44S2- : S	4- 6: 996	4419- 06	1F2-	ql w
pqsCOAum	4972	1104y9	1- 0911	1- : y6-	1- 1- 2-	yF14	ql w
pefeCAum	: 271	21	71-	-	4	49SFy2	ql w
pefeCAum	0072	S	S	S	S	SFSS	ql w
pefeCAum	0: 72	1:	12	2-	1:	- 1F10	ql w
pAAqnC	2: 71	1y090:	1yS24y	1: : 41S	1y2S0y	2F9-	ql w
pAPer	1S071	- 9:	- : -	2: -	- 42	19F2-	ql w
pAPer	1Sy71	209	- 09	129	29:	4: F01	ql w
pnOAum	2- 72	9Sy4y	4y- 9y	49026	4: 60:	9F9S	ql w
p&nC&Aum	: 671	12y2	1110	6: -	1S- 1	- SF- y	ql w
p&nC&Aum	: : 71	: S42	9: 20	- 2: 4	901:	41F64	ql w
pufPur	- 471	- S- - y6	- 1S6S-	- S: 099	- S09: 9	1F22	ql w
i erbAum	19y71	yyS- - - 0	y900919	y99409:	y60: 9- 0	2FS1	ql w
i erbAum	19y72	- 492S44	- y20: 09	- y42S1:	- 00- y0y	0F- y	ql w
i EsPAum	2S- 71	1- y2	1210	1S9:	1222	1- F64	ql w
i EsPAum	2S971	- - 9y	2y9S	2: 42	- S9S	: Fy-	ql w
i AC	11: 71	y10	1S9S	1160	1S49	11Fy:	ql w
i A&sCAum	4071	2: -	209	210	29:	14FS6	ql w
MrsCAum	2- : 71	- y2	- 10	2y2	- - -	19F61	ql w

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Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8 :
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame c qduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
VsCsOAum	9172	- -	- -	20	- 1	12F- 6	ql w
Y&erbAum	10271	- -	42	09	9S	44F1S	ql w
Y&erbAum	10272	6	- -	- -	24	66F6S	ql w
Y&erbAum	10671	1- 10	1109	129S	1240	9F6:	ql w
Y&erbAum	10672	y1: 1	1114y	11961	1S6- S	11Fy6	ql w
Y&&Aum	: y71	124yS60S	1299- 44y	12261260	124- 912y	1F24	ql w
Y&&Aum	: y72	1S6S: : 1	122: Sy9	1241260	110604:	: F99	ql w
ZACq	6672	24S	29S	210	2- 6	0F26	ql w
ZAqnCAum	yS71	960	9S:	460	914	yF0:	ql w
ZAqnCAum	y171	142	09	: -	1SS	- 6F- 2	ql w

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 2S	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU04	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :u wb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1172h4-	117777-	121S021	11h4172	1M22	dDl
qCTb nCE	121 1	- - 06	- h06	4S42	- 0h7	hM60	dDl
qpl r Ccl	0a 2	1Sah	1S04	1162	1Sh7	aM80	dDl
Bwpcmb	1- a 1	611a2a	6224S0	61- h47	61ah6S	SM1-	dDl
Bwpcmb	1- 0 1	1Sh6- 7-	1111- 6S	11S- 260	11S- 60S	SM67	dDl
Br pE8mb	h 1	20- 4	2001	26hh	20- a	1M-	dDl
Bdl b mTG	2Sh 1	66S7424	672h41a	6717h- h	60a22ah	1M7a	dDl
Bdl b mTG	2Sh 2	- 6S1211	- 672710	- 2hh- h1	- a207S6	aM0-	dDl
Bpmb cCr	71 1	6a00	0Sa2	0S1S	677S	- M72	dDl
5 wob cmb	1S7 1	2S7	177	101	17h	hM1a	dDl
5 wob cmb	1S6 1	41- 4	4- 10	42ah	42- 0	2M21	dDl
5 wob cmb	111 1	1622	176-	101h	10- a	0M8S	dDl
5 w8lcmb	4- 1	- S6427	- S0h77	- 1Sa10	- S7- 11	SM60	dDl
5 w8lcmb	44 1	a12S4S2	a- S067S	a- h4746	a204- Sh	2M66	dDl
5 wpenC	12 1	06hSS2a	7S7S1h4	7174044	0h74h70	- M20	dDl
5 wpenC	12 2	h0h67	h6026	h7S26	h0a0-	SM0a	dDl
5 G8hpCr	- a 1	h6- 0- 07	12201- h6	1446- ShS	1212- haa	1hM1-	dDl
5 G8hpCr	- a 2	124466	1- SS- h	1- h4h2	1- 1- - -	aM07	dDl
5 Gpmb cmb	a2 2	27aaa	200h4	20764	27S01	1M4S	dDl
5 new8T	ah 2	- 2a60	- 17hh	- 226-	- 224-	1M84	dDl
5 nDDr p	6- 2	07a0S	0a46h	0472h	062hS	2M62	dDl
&El Dpnl cmb	1a6 1	a- 466	a416h	a- h17	a- 7a1	SM66	dDl
&El Dpnl cmb	1a6 2	2210a	224- 6	22626	22412	1M81	dDl
Fpecmb	164 1	- haS1	42- h4	422S1	41- 6a	- M41	dDl
Fpecmb	164 2	1664S	166h1	16064	166h7	SM10	dDl
Hwon8Cmb	16S 1	40a1S	401- a	46066	401- 0	SM0h	dDl
Hwon8Cmb	16S 2	22646	22Sha	224S6	22- 72	1M4-	dDl
y n8b cmb	16a 1	h4h7a61	h06226-	1SSa011-	h002646	2M76	dDl
y n8b cmb	16a 2	467hh41	4h2- 42-	427a- a7	46- 2hS0	6M10	dDl
tCocmb	11a 1	67- - 024	6771674	02140a7	6h06022	2M10	dDl
tCocmb	11a 2	1S- 6ah2	1S00h61	h02h7S	1S2h107	aM14	dDl
tpnC	a4 2	212a667	2Sh6ah7	21S0a6-	21Shh4-	SM0S	dDl
tpnC	a6 2	- h411ah0	- hSa4720	- 771hah4	- hSha- - h	SM06	dDl
tpnC	a0 2	h27406	hS1712	h1h721	h160S-	1M47	dDl
KpEDTnC	7- 1	266	- Sa	274	27a	6M71	dDl
Lr wo	2S6 1	227a- a	2- 4442	2- 4aS6	2- 24h4	1M47	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 2S	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU04	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :uwb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	176S- 0	1h- 470	1h- - S0	1hSh44	2M4-	dDl
Lr wo	2S7 1	77ha1h	hSh2Sa	h1101S	hS- 407	1Mla	dDl
LdTGmb	6 1	242aa0S	2a- 7- S-	2a611a2	2aS7- 42	2M7h	dDl
9 wgCr l cmb	24 2	64h4a7	6410h4	6aaS76	64700h	1M8-	dDl
9 wCgwCr l r	aa 2	a140h-	a12Sh4	a1a- 21	a14S6h	SM4	dDl
9 n8Eeor Cmb	h4 1	2S7a7	2S- a0	21S16	2S044	1M6	dDl
9 n8Eeor Cmb	ha 1	44S1	4a17	404-	4aa4	- M2	dDl
9 n8Eeor Cmb	h6 1	7S44	0744	07a2	0h14	1M4-	dDl
9 n8Eeor Cmb	h0 1	26ah	2aaS	2610	26Sh	2M1S	dDl
9 n8Eeor Cmb	h7 1	017a	0- a2	027a	0204	1Mla	dDl
u r noEb cmb	1aS 1	700ah	hS- S2	7h4hS	7h174	1M6	dDl
u r noEb cmb	1aS 2	20241	26h2S	27S66	204Sh	2M6	dDl
u cdkr 8	6S 2	1S- 00	1S4a0	1SS20	1S270	2M2	dDl
NGhl DGhpml	- 1 2	41ah	4- Sh	4a4-	4- - 0	4M6	dDl
NnTwl cmb	- h 2	4h6274	4h7a41	aSSa- 0	4h74a4	SM4-	dDl
. Ghocmb	1S- 1	674S016	6744a16	6h060a2	6770- 27	1M2	dDl
. Ghocmb	1S- 2	- 4hh1h6	- 6722h-	- 2147h7	- 46a462	6M7S	dDl
l dwCocmb	4a 1	4- S- 260	4aS- 416	4a0- h72	446S222	- Mla	dDl
l dwCocmb	4a 2	1a6121	16- 244	144102	1a4a12	6M4	dDl
l r 8 Ccmb	72 1	122	124	1- a	120	aM2	dDl
l r 8 Ccmb	00 2	hS	110	11S	1S6	1- Mla	dDl
l r 8 Ccmb	07 2	1S2	0a	h6	h1	1aM7	dDl
l d8dnC	27 1	7aa1200	7622ha0	7a7Sa40	7a74h20	SM2	dDl
l d8vr p	1S0 1	10h2	16a7	10Sh	102S	- M2	dDl
l d8vr p	1Sh 1	16SS	167-	1a2a	16S-	4M4	dDl
l nocmb	2- 2	141h70	124672	12a771	1- S7aS	0Mh	dDl
l TpmCTcmb	76 1	7h4a0S	7h2422	hS22hh	7h64- S	SM7	dDl
l TpmCTcmb	77 1	7S72040	7267Shh	717hS- 1	710hhah	1M4	dDl
l m8mp	- 4 1	- 2a4h0	- 21a0h	- 16- 04	- 211aS	1M2	dDl
Ar pecmb	1ah 1	h4h77- 7	1SSSS06-	1SS1h40a	h7- h6h2	- M8S	dDl
Ar pecmb	1ah 2	44Sa160	467S00a	41h62a0	4420- hh	aM4h	dDl
AGw8mb	2S- 1	- 0ah	- 7a1	4Sah	- 7hS	- Mla	dDl
AGw8mb	2Sa 1	704a	hS4a	76a-	7714	2M-	dDl
AdC	117 1	0611	0644	72- 6	07- S	4M4h	dDl
AdTwCcmb	40 1	0111h	0S26a	0ShSh	0S064	SM0-	dDl
RpwCcmb	2- 7 1	a- h- 2	aaS70	aahS7	a4h0a	1M71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 2S	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU04	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :u wb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	a1 2	6- 416	62771	62h07	6- Sh2	SM4a	dDl
YTTr pecmb	102 1	12h- 2	1- 74h	1- 4S0	1- - h6	- M4-	dDl
YTTr pecmb	102 2	6- 0h	647a	0S41	66- a	aM6	dDl
YTTr pecmb	106 1	h612	haa4	hhS4	h6hS	1M14	dDl
YTTr pecmb	106 2	160aa	10SS6	1a021	164h4	4M1-	dDl
YTTpcmb	7h 1	120- 4464	1- 2007hS	1- 467a06	1- 16S- 1S	2M7h	dDl
YTTpcmb	7h 2	1a046aa	161a127	142426a	1a- 7S16	6M44	dDl
ZdCd	66 2	6SS6-	ahS22	a7674	ah2a0	1M21	dDl
ZqpdnCcmb	hS 1	4h7h7	aS1- -	4h2a4	4h062	SM11	dDl
ZqpdnCcmb	h1 1	1ShSa	1S646	1147S	11S1S	- M7	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:.J	3 - 447 21	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU0a	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb dCcmb	20 2	0477- h	0aa46S	0a7- 20	0a42Sh	SM6a	dDl
qCTdb nCE	121 1	2a42	- SSh	- 406	- SSh	1aM41	dDl
qpl r Ccd	0a 2	1- 76	1- hh	1- a1	1- 0h	1M7S	dDl
Bwpcmb	1- a 1	447hS0	466S27	4a72hh	4a004a	1M70	dDl
Bwpcmb	1- 0 1	7S7S4a	71h27a	71a6Sa	714- 12	SM0S	dDl
Br pE8&mb	h 1	2100	2- 61	2226	22aa	4M22	dDl
Bdl b mTG	2Sh 1	67h6aa1	6h2h0h6	6774S42	6hS- 46-	SM4	dDl
Bdl b mTG	2Sh 2	- a0a2- 2	- 21a262	- 26S6a7	- - aS- 74	aM7a	dDl
Bpmb dCr	71 1	60S2	671S	0a44	0S1h	6M4-	dDl
5 wob cmb	1S7 1	142	11-	1a4	1- 6	1aM01	dDl
5 wob cmb	1S6 1	42a1	4S26	4SS1	4Sh2	- M0	dDl
5 wob cmb	111 1	11ah	110S	1S77	11- h	- M1S	dDl
5 w8lcmb	4- 1	164664	10Sah2	16021h	1604h2	1M07	dDl
5 w8lcmb	44 1	2hSa0S0	2776- 70	270h010	27hS6S-	SM40	dDl
5 wpenC	12 1	a4416- 0	a612- 11	a6h0h- 2	aa7- h6S	2M4	dDl
5 wpenC	12 2	674h4	6h16-	67aS2	6702S	SM46	dDl
5 G8hpdCr	- a 1	1a- 6774S	1hS4h6- S	21144a6h	17a21S1-	1aM0h	dDl
5 G8hpdCr	- a 2	164a27	10124a	106- 47	10S0S0	- M40	dDl
5 Gpmb cmb	a2 2	27- 07	274- 2	271h1	27- - 4	SM4a	dDl
5 new8T	ah 2	20470	20h14	20a0S	206a0	SM72	dDl
5 nDDr p	6- 2	aa006	a6hh0	a0- a2	a60S7	1M46	dDl
&El Dpnl cmb	1a6 1	6h016	01Sa6	024- 7	01S0S	1M41	dDl
&El Dpnl cmb	1a6 2	2h66S	- S1h0	- S06h	- S2Sh	1M74	dDl
Fpecmb	164 1	aah7a	a0776	a0S6a	a6h0h	1M60	dDl
Fpecmb	164 2	2- 1SS	2- h- a	2- ah7	2- a44	1M07	dDl
Hwon8Ccmb	16S 1	6S2a-	6Shh7	621S4	61117	1Ma2	dDl
Hwon8Ccmb	16S 2	2hh- 0	2h4Sh	2hh7S	2h006	1M80	dDl
y n8b cmb	16a 1	h014S41	1SS177- h	h0h6214	h74- S- 2	1M6S	dDl
y n8b cmb	16a 2	401aa7S	4- 6- 014	427a10-	44a4722	aM1a	dDl
tCocmb	11a 1	0S6S126	0226S64	01h6114	016S067	1M24	dDl
tCocmb	11a 2	1S7h14-	h002- a	h60722	1S114SS	6M60	dDl
tpnC	a4 2	24aaaS4	24aha0S	2a2h22S	24714- 1	1M60	dDl
tpnC	a6 2	4- h74206	4466h217	44667a26	4444S60-	SM7h	dDl
tpnC	a0 2	1S4767-	1SaS441	1Sa7442	1Sa2a22	SM4h	dDl
KpEDTnC	7- 1	- - S	- 11	- 24	- 22	2M10	dDl
Lr wo	2S6 1	1h7S6a	2S- - - -	2S17a7	2S1S7a	1Ma	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 21	tCl Tpmb Cr T.uwb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU0a	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :uwb r :J	12- q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1620- 2	16042a	16aaa7	16a2- 7	1M4-	dDl
Lr wo	2S7 1	00a240	0h422h	07- - 07	07427a	1M21	dDl
LdTGmb	6 1	24h410S	2a- 0a0-	2a72SSh	2a- 0h10	1M0-	dDl
9 wgCr l mb	24 2	aS21S2	aS0462	aS4Sh4	aS4aa-	SM44	dDl
9 wCgwCr l r	aa 2	a4hh72	aa1626	a6S4a-	aa4S2S	1M82	dDl
9 n8Eeor Cmb	h4 1	124S6	1- 4a0	1- 4- 2	1- Sh7	4M47	dDl
9 n8Eeor Cmb	ha 1	42h2	4hS1	4- 74	4a26	0M2a	dDl
9 n8Eeor Cmb	h6 1	66- a	01- 6	67- a	676h	- M60	dDl
9 n8Eeor Cmb	h0 1	2hh2	270a	- S- 4	2h60	2M00	dDl
9 n8Eeor Cmb	h7 1	0aa2	011S	046h	0- 00	- M17	dDl
u r noEb cmb	1aS 1	11ha0a	124- 02	12220h	122S06	1M10	dDl
u r noEb cmb	1aS 2	- 07hS	- 7221	- h101	- 7420	1M0-	dDl
u cdkr 8	6S 2	11a47	117Sa	116a2	11667	1M11	dDl
NGhl DGhpml	- 1 2	- aSh	- a06	- 4- 4	- aS6	2M82	dDl
NnTwl l cmb	- h 2	414h44	414S76	416140	41aSah	SM2a	dDl
. Ghocmb	1S- 1	01121S-	01- 0h47	02117- 0	01a- h6-	SM02	dDl
. Ghocmb	1S- 2	- 016247	- - 74622	- - 4aS4h	- 471h0-	aM7a	dDl
l dwCocmb	4a 1	46S6470	4a472hh	462721-	4ah4- - -	SM1S	dDl
l dwCocmb	4a 2	1621S7	1461ha	1401aa	1a171h	aM77	dDl
l r 8 Ccmb	72 1	1- 1	14a	1- h	1- 7	4M10	dDl
l r 8 Ccmb	00 2	1aS	12-	1- 0	1- 0	hM0a	dDl
l r 8 Ccmb	07 2	1S6	h1	1S7	1S2	hM14	dDl
l d8dnC	27 1	7a01h- 7	76a616S	70SS627	7642hSh	SM06	dDl
l d8vr p	1S0 1	11SS	1S7-	12S7	11- 1	6M8S	dDl
l d8vr p	1Sh 1	haS	1SaS	1SaS	1S10	aM67	dDl
l nocmb	2- 2	a121S	aS4h0	4h776	aSa- 1	1M1	dDl
l TpnCTcmb	76 1	- 027S2	- 7aaa0	- hS474	- 72h47	2M7	dDl
l TpnCTcmb	77 1	- 4a1h47	- 6S671-	- 64- h02	- a60a07	2M7a	dDl
l m8mp	- 4 1	- S- - h0	- S- 1a7	- S4270	- S- 614	SM2S	dDl
Ar pecmb	1ah 1	1S11h7h-	1SS011a-	1SSa6727	1SS7262a	SM-	dDl
Ar pecmb	1ah 2	4011h4-	41- haS4	4160114	4- - ha2S	0M44	dDl
AGw8mb	2S- 1	2674	2042	- S- 4	272S	6M0a	dDl
AGw8mb	2Sa 1	6- 20	0- 6h	0SS2	67hh	0M66	dDl
AdC	117 1	7S61	7476	7661	74S-	- M60	dDl
AdTwCcmb	40 1	1h246a	1h07hS	1h6626	1ha66S	1M4a	dDl
RpwCcmb	2- 7 1	42071	42h1a	4- 172	42h6S	SM47	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:J	3 - 447 21	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU0a	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q . FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	64407	6- hah	6471-	64416	SM00	dDl
YTTr peomb	102 1	17- Sa	17- aa	1hS7h	17a7-	2M6	dDl
YTTr peomb	102 2	h270	h170	h2h7	h2a0	SM06	dDl
YTTr peomb	106 1	12072	1- 624	1- a04	1- - 20	- M4a	dDl
YTTr peomb	106 2	17a04	10617	107a1	17S14	2M00	dDl
YTTpomb	7h 1	1- 4a4- SS	1- h6S0S4	1- 77S0aa	1- 06a2a-	1M17	dDl
YTTpomb	7h 2	16S06- h	1401Sa-	1a2aSSh	1a- 4a60	4M17	dDl
ZdCd	66 2	4a40h	4a40h	464a6	4a7Sa	1M4-	dDl
ZqpdnComb	hS 1	20062	27- 1-	2h26a	27446	2M00	dDl
ZqpdnComb	h1 1	611S	6a1S	61S1	624S	- M04	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 22	tCl Tpmb Cr T.uwb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU06	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja6.Ja7	&wTwUd8 :u wb r :J	124q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1Sh4ha-	1S70- aa	1ShS004	1Sh1S20	SMa	dDl
qCTb nCE	121 1	2160	2- 60	2- 74	2- S6	aM4-	dDl
qpl r Ccl	0a 2	1S7h	11- a	111S	1111	2M80	dDl
Bwpcmb	1- a 1	470470	4h700-	4726S1	47h62S	1M0h	dDl
Bwpcmb	1- 0 1	74a7- 1	7ha201	7a642-	76a741	- M81	dDl
Br pE8mb	h 1	27- 0	2hha	2h4a	2h26	2M0a	dDl
Bdl b mTG	2Sh 1	6hS402S	aa7h4S0	6hSh1- 0	64600aa	11M06	dDl
Bdl b mTG	2Sh 2	- 20a70a	- 272242	- 2aS0S-	- 26h6S0	SMd1	dDl
Bpmb cCr	71 1	0- - a	0h6h	0a61	0622	4M21	dDl
5 wob cmb	1S7 1	146	1a7	21-	102	2SMd0	dDl
5 wob cmb	1S6 1	4717	- 260	4- S1	412h	1hM12	dDl
5 wob cmb	111 1	16a1	14hh	1- h7	1a16	7M7	dDl
5 w8lcmb	4- 1	2h1Shh	2h6a2a	27712h	2h1h10	1M46	dDl
5 w8lcmb	44 1	aSSa201	4ha17- 0	4h062S6	4h00001	SMd4	dDl
5 wpenC	12 1	a2102- 0	aaS04h2	aa- SS4h	a4172ah	- M22	dDl
5 wpenC	12 2	64a74	6aa1-	67hS4	66- - 4	- M4-	dDl
5 G8hpcCr	- a 1	1076- 2- 0	21S6- 0S7	22haa1Sh	2S620- a1	12M47	dDl
5 G8hpcCr	- a 2	102621	10aah0	171S6-	106420	2M4-	dDl
5 Gpmb cmb	a2 2	2040-	2660a	2661a	26h21	1M07	dDl
5 new8T	ah 2	4S1S6	- h- 21	- h04a	- h024	SM1h	dDl
5 nDDr p	6- 2	0a- 42	04aS1	02042	041ha	1M0h	dDl
&El Dpnl cmb	1a6 1	aa6aS	a7021	a616S	a6744	2M1S	dDl
&El Dpnl cmb	1a6 2	24S- 2	24- 42	24a26	24- SS	1M8-	dDl
Fpecmb	164 1	44067	40142	46774	4626a	2M72	dDl
Fpecmb	164 2	1747S	177h0	1726-	17a46	1M04	dDl
Hwon8Cmb	16S 1	a1hh4	a46- 0	a2646	a- Sh-	2Md1h	dDl
Hwon8Cmb	16S 2	24Sha	24a1-	24- 2h	24- 12	SM76	dDl
y n8b cmb	16a 1	hh76S27	071S7h6	hh- 01a4	h2446h-	1- M4-	dDl
y n8b cmb	16a 2	421h- 4S	4- 2a- 12	412- 0- 1	42220h4	2Mh	dDl
tCocmb	11a 1	02- - S1S	a7a202-	0SaS210	6011h74	11M10	dDl
tCocmb	11a 2	h0Sa2h	hh- 60a	h66Saa	h060a-	1Md2	dDl
tpnC	a4 2	22647a4	21a76h1	222666S	22160- a	2M4-	dDl
tpnC	a6 2	- hh72- 4S	- h0aaaS7	- h617aa6	- h07a467	SM46	dDl
tpnC	a0 2	h4a46S	h4S77S	h- S4- 2	h- 7h24	SM72	dDl
KpEDTnC	7- 1	- 4a	- S6	- 12	- 21	6M40	dDl
Lr wo	2S6 1	1ha416	1hhSa2	1h1704	1ha447	1M74	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :uwb r :J	124q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	162aaa	16a07-	1a0161	1617- -	2M6h	dDl
Lr wo	2S7 1	0a1h0-	000460	04047S	0a7h0-	2M1-	dDl
LdTGmb	6 1	261h- aS	211hS- a	2a- - 012	2424S- 2	11M84	dDl
9 wgCr l mb	24 2	64- 61S	6- 2- S2	6416Sa	6- h102	SM14	dDl
9 wCgwCr l r	aa 2	6hSh7h	676204	60462h	67- h64	1M2-	dDl
9 n8Eeor Cmb	h4 1	2S- 6a	21Sh2	217- 4	21Sh0	- M47	dDl
9 n8Eeor Cmb	ha 1	- 274	- aa1	- 410	- 410	- M1S	dDl
9 n8Eeor Cmb	h6 1	664-	021h	0461	01S7	aM11	dDl
9 n8Eeor Cmb	h0 1	1hah	2260	22ah	2161	7M1-	dDl
9 n8Eeor Cmb	h7 1	a467	a64-	ah26	a60h	4M80	dDl
u r noEb cmb	1aS 1	h4122	hh446	h6S- a	h6a- 4	2M0h	dDl
u r noEb cmb	1aS 2	2h- 6h	2h1ha	2h42h	2h- - 1	SM41	dDl
u cdkr 8	6S 2	1124a	11aS1	1S7a4	112SS	2M11	dDl
NGhl DGhpml	- 1 2	2- ah	- S74	20- 4	202a	1- M1	dDl
NnTwl l mb	- h 2	- 6727a	- 647- 0	- 66S- 6	- 66- 76	SM47	dDl
. Ghocmb	1S- 1	026S667	a06a4- 0	02ha440	600- 7a1	12M7h	dDl
. Ghocmb	1S- 2	- 26hS16	- - 702- S	- 22aaS4	- 2h- h10	2M44	dDl
l dwCocmb	4a 1	47172SS	- 71a126	402a766	44a- S64	12M4a	dDl
l dwCocmb	4a 2	146427	14766S	142a66	14a77a	2M11	dDl
l r 8 Cmb	72 1	70	12h	1S0	1S7	1hM11	dDl
l r 8 Cmb	00 2	7-	1- 0	0S	h0	- 6M4S	dDl
l r 8 Cmb	07 2	h7	h2	ha	ha	- M16	dDl
l 8dnC	27 1	1SS66224	1SS7S2Sa	1S17761-	1S111671	SM06	dDl
l 8vr p	1S0 1	1- a7	1a2a	10S7	1a- 1	11M44	dDl
l 8vr p	1Sh 1	1a42	1a2a	127-	14aS	hM10	dDl
l nocmb	2- 2	1a00- S	16S60S	16S0- 0	1ah01-	1M87	dDl
l TpnCTcmb	76 1	67- - 62	0S- 70S	6h7S6-	6haSh7	1M42	dDl
l TpnCTcmb	77 1	6- - SS0a	6440h07	6- ha124	6- h1Sah	SM12	dDl
l m8mp	- 4 1	2h7- 2a	- S1SSa	2h707a	2hh- 02	SM47	dDl
Ar pecmb	1ah 1	1Sa16Sa1	7216S- 7	1S1a6aS2	h62ha- 1	12M7a	dDl
Ar pecmb	1ah 2	4Sh6h7a	424S6- 7	4S- - 662	412- 062	2M40	dDl
AGw8mb	2S- 1	2h- 4	- 110	20ah	2h- 0	6M1S	dDl
AGw8mb	2Sa 1	0161	0Sa2	04a2	0222	2M70	dDl
AdC	117 1	1S- 1-	1S421	1S1a4	1S2h6	1M1S	dDl
AdTwCmb	40 1	a674-	a4a7S	a44a4	aa2h2	2M4-	dDl
RpwCmb	2- 7 1	a2h11	a6Sah	a20S2	a- 7h1	- M4h	dDl

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LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :u wb r :J	124q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	a1 2	6hh46	01421	0110-	0S740	1M11	dDl
YTTr peomb	102 1	1- h04	14760	14- 60	144S-	- M11	dDl
YTTr peomb	102 2	0S41	0S24	6h46	0SS4	SM02	dDl
YTTr peomb	106 1	1S446	1Sa- 7	1S4a4	1S40h	SM47	dDl
YTTr peomb	106 2	16S1S	1a072	16- 1S	16S- 4	1M6a	dDl
YTTpomb	7h 1	1- hh07Sh	11S7a764	14S- - 10S	1- S- 7h47	12M10	dDl
YTTpomb	7h 2	141a0SS	1401SS6	142- 12h	14- 6612	2M8h	dDl
ZdCd	66 2	44- 1h	4- 604	4- 624	4- 702	SM77	dDl
ZqpdnComb	hS 1	aS71h	a- 26h	a267-	a22a0	2M4a	dDl
ZqpdnComb	h1 1	112- 7	12S- h	11402	11a7-	- M46	dDl

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LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	246	16S	1 S	1	22N87	dDl
q. Tb C. h	121:1	1-S	210	1-N	10-	2SN06	dDl
qpl r . cl	0-:2	0	1	-	4	0SMS	dDl
Bwpcmb	17-:1	2-S	1N7	1-S	1 4	26M1	dDl
Bwpcmb	170:1	72-	242	160	244	72M4S	dDl
Br ph8&mb	:1	60	0	N1	06	N06	dDl
Bdl b mTE	2S :1	02661 N	0S0SNNN	0S0 176	017N041	1M-	dDl
Bdl b mTE	2S :2	77112-0	77 7 N6	72N7S-S	772 471	1N07	dDl
BpCb c r	N1:1	7 S	4674	42S1	424N	NM	dDl
F wob mb	1SN:1	7N	2-	21	2N	71N27	dDl
F wob mb	1S6:1	7642	7-26	77N4	7-10	7N6N	dDl
F wob mb	111:1	4S	7 7	7N2	7 -	7M	dDl
F w8lmb	47:1	4SS	41S	70	7 6	4N87	dDl
F w8lmb	44:1	41- - N	41714	4S62N	41160	1M10	dDl
F wpeC.	12:1	22 - N-	2260N-7	2207 2	220 214	SN6-	dDl
F wpeC.	12:2	26 60	20-S1	202-	20247	SMN	dDl
F E8Qpc r	7-:1	47 7-6	41 -6N	7 00464	41 SN70	-N87	dDl
F E8Qpc r	7-:2	246NS	27- -	21 -S	274SN	-NN0	dDl
F EpCb mb	-2:2	171S	172S	1120	12-2	NN6	dDl
F Cew8T	- :2	NS	00	67	07	12N87	dDl
F CDDr p	67:2	1067	177S	11S7	17	27M0	dDl
&hl DpCl mb	1-6:1	S	10	N	N	1SSN82	dDl
&hl DpCl mb	1-6:2	7	0	7	4	47M4S	dDl
Upemb	164:1	-N	60	-N	61	0NN	dDl
Upemb	164:2	10	27	27	21	1NN21	dDl
GwoC8c mb	16S:1	12-	N7	1SS	1S7	2SM4S	dDl
GwoC8c mb	16S:2	140	16S	117	14S	10M10	dDl
HC8b mb	16-:1	1S721217	1SS- - 64N	1S1SN 16	1S161 26	1N7N	dDl
HC8b mb	16-:2	422447N	42 676	4767-4N	42 -N04	1N62	dDl
t. omb	11-:1	0671SS0	070SS11	027 260	041742N	2N6	dDl
t. omb	11-:2	S216	1S170- -	N4S N	6S27	1M10	dDl
tpC.	-4:2	061	-SS	-44	6S2	27N21	dDl
tpC.	-6:2	1S166	-60	6S 6	0714	77NN	dDl
tpC.	-0:2	711	222	1N7	27	20M42	dDl
KphDTC.	N7:1	2- -	2-0	261	2-N	1N42	dDl
Lr wo	2S6:1	1460	144-	1411	1441	1M4	dDl

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LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	1SN	12-S	1122	11-4	0M70	dDl
Lr wo	2SN:1	-6S1	-N4S	-42N	-627	7M60	dDl
LcTEcmb	6:1	2-- 770	24-6-26	2-6S1S	2-2-724	2M76	dDl
9 wg. r l cmb	24:2	17 2	-SS	4N7	0 2	6-M0-	dDl
9 w. gw. r l r	--:2	2 0	110	1-S	1NN	-1M8S	dDl
9 C8heor . mb	4:1	4SN	72-	7SS	744	16M40	dDl
9 C8heor . mb	-:1	760	477	277	744	2 M0	dDl
9 C8heor . mb	6:1	-SS	-77	460	-SS	6M60	dDl
9 C8heor . mb	0:1	2SN	2-N	160	211	21M04	dDl
9 C8heor . mb	N:1	6 2	60-	70-	-N1	7SM0S	dDl
u r Cohb cmb	1-S:1	17	17	S		N6M0S	dDl
u r Cohb cmb	1-S:2	7	7	0	4	47M4S	dDl
u cdkr 8	6S:2	-7	60	60	62	12M7N	dDl
3 ECl DECpm	71:2	1SN	1-S	2	110	2-M0-	dDl
3 CTWl l cmb	7 :2	114--	11167	117--	11724	1M71	dDl
y ECocmb	1S7:1	001N-4N	0440N67	02-0N44	04040-1	7M1S	dDl
y ECocmb	1S7:2	7717S76	7444020	772 26	7762-67	2M17	dDl
l dw. ocmb	4-:1	4 SS704	40SS7-1	400101N	40 SN14	2M12	dDl
l dw. ocmb	4-:2	140644	14 61N	14 -61	14N 41	SM0-	dDl
l r 8 . cmb	N2:1	:70	:4	:14	:1N	: 4M4	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1-	N	16	17	77M7	dDl
l c8dC.	2N:1	1N7N 4	10021	106476	10 1N7	2M2	dDl
l c8vr p	1S0:1	242	160	1 2	2SS	1 M1S	dDl
l c8vr p	1S :1	12-	12-	142	171	0M70	dDl
l Cocmb	27:2	2-471	27 N0	24- 6	24601	2M4	dDl
l TpC. Tcmb	N6:1	1SSS	60	11SS	1S22	6M0	dDl
l TpC. Tcmb	NN:1	- 1	1S471	7674	6661	-1M7	dDl
l m8mp	74:1	207164	20242-	26NS0	201227	1M81	dDl
Ar pecmb	1- :1	1S-7 S N	1S10-10	1SS67240	1S2- 10-	2M17	dDl
Ar pecmb	1- :2	41--S77	4201117	4S 641	41041NN	2M17	dDl
AEw8cmb	2S7:1	4N7	-60	777	461	2-M04	dDl
AEw8cmb	2S-:1	1442	11-N	11-N	12-7	17M86	dDl
Ac	11N:1	1142	120-	110-	11 0	-MS	dDl
AcTw. cmb	40:1	2-S	2 2	777	2 2	14M2	dDl
5 pw. cmb	27N:1	20-	2 2	177	277	70M2	dDl

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LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3I 1	F3I 2	F3I 7	F3I 9 r w.	F3I y l &	5 . cT
Vw. wocmb	-1:2	-S	10	7S	72	-2N36	dDI
YTTr pecmb	102:1	2-	1SN	2	0-	-NNMS	dDI
YTTr pecmb	102:2	-S	22	7	70	70N0-	dDI
YTTr pecmb	106:1	11N7	1--N	1777	17-N	17MS	dDI
YTTr pecmb	106:2	11720	11 60	12-07	11 -6	-N21	dDI
YTTpcmb	N :1	17NN4S61	17721070	1714 N1	174-1 26	2NN-	dDI
YTTpcmb	N :2	12 70S-	14S1N-1	12 1441	172N	4N0-	dDI
Zc d	66:2	1N7	1-7	1N7	107	M	dDI
ZqpdC. cmb	S:1	-2-	410	-SN	4N7	12N30	dDI
ZqpdC. cmb	1:1	60	1-N	177	11	7 N60	dDI

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 66B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 66	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12al sS4s2-	&l T Rdpamle pas	126LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	16-2	1--	1014	1642	4M06	dDP
q. Tde C. h	121J1	10-12	1u70	10-S7	100 u	2M7	dDP
qlPp. cd	0-J2	201	27-	2-u	2--	0M16	dDP
Bl ldbe	17-J1	1uu64	1 2 u	1 6u2	1 2u1	2M12	dDP
Bl ldbe	170J1	7706S	744 -	7772-	77u6S	1M0-	dDP
BplhNbe	J1	2240	27-4	2774	2712	2M44	dDP
BdPe bTE	2S J1	6u-u4 0	601-uS2	6646 S0	604S4S2	1M0S	dDP
BdPe bTE	2S J2	712S020	7741u4	7214 0	722-u-1	7M44	dDP
BlCe c p	u1J1	41u4	4S06	42S	41-6	1M01	dDP
Fl oe dbe	1SuJ1	221	2-S	101	214	1uM02	dDP
Fl oe dbe	1S6J1	7u60	7606	76S	7010	7M01	dDP
Fl oe dbe	111J1	2672	267	2u-4	20Su	4M06	dDP
Fl Ndbe	47J1	17S64	17S60	17S7u	17S-6	SM12	dDP
Fl Ndbe	44J1	24402S	246 2	24460u	24-442	SM12	dDP
Fl lr C.	12J1	27S67 7	22 26S6	22 210-	22 0S-u	SM7-	dDP
Fl lr C.	12J2	2006u	261	20u1S	202-	7M70	dDP
FENCl c p	7-J1	262 6 6	24u44u2	24-S074	2-21670	7M00	dDP
FENCl c p	7-J2	1- u4	1-7-	14624	1-722	4M44	dDP
FElCe dbe	-2J2	677-	61 -	662-	67u-	7M44	dDP
FCrl NT	- J2	-214	4 7u	-161	-1S4	2Mu	dDP
FCDDpl	67J2	S26	S S	277	116	1M16	dDP
&hPDlCPbbe	1-6J1	S	S	S	S	SM3S	dDP
&hPDlCPbbe	1-6J2	7	7	S	2	u6M0S	dDP
Ulr dbe	164J1	2	2-	-S	-6	6SM02	dDP
Ulr dbe	164J2	7S	17	20	27	70M1	dDP
Gl oCNd dbe	16SJ1	1Su	-u	1SS	u	7SM14	dDP
Gl oCNd dbe	16SJ2	110	1S0	170	12S	12M07	dDP
HCNe dbe	16-J1	076-24	u067S0	027- 2	00uuSu	SM10	dDP
HCNe dbe	16-J2	7 6S6Su	427-177	41S2 6	4S -0S	7M-	dDP
t. odbe	11-J1	024S -2	0126427	0S1 462	012u 46	1M-	dDP
t. odbe	11-J2	1020u	0-uu0	4-2S7	46122	7M1S	dDP
tlC.	-4J2	2-70u	246u7	24-00	24u0	1M0-	dDP
tlC.	-6J2	4467-4	4776-S	44S177	44SS4-	1M44	dDP
tlC.	-0J2	112u2	1S01S	1S S4	1S 6-	2M06	dDP
KlhDTC.	u7J1	262	2-1	2u1	26-	-M02	dDP
Lpl o	2S6J1	u 71	471	S70	177	2M	dDP

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LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 66B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 66	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12al sS4s2-	&l Tl Rdpamle pas	126LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	u-2-	u16	u1-7	u2u2	2M4	dDP
Lpl o	2SuJ1	702u7	7016S	76S4u	76u7S	1M-	dDP
LdEdbe	6J1	2406102	24267u7	2477742	244-2	1M1S	dDP
9l g. pPdbe	24J2	1S-44u	1S7S67	1S77 S	1S7 60	1M24	dDP
9l . gl . pPp	- - J2	17-0	14S7	17 0	17u6	1M12	dDP
9 CNr op. be	4J1	1u2uu	2S1 S	1 S7u	1 102	-M3S	dDP
9 CNr op. be	-J1	22u61	2722u	2770S	271-7	1M17	dDP
9 CNr op. be	6J1	2-u77	2-4 1	26260	2-u64	1M1S	dDP
9 CNr op. be	0J1	14204	1-12-	146SS	14666	2M7	dDP
9 CNr op. be	uJ1	7u7 6	76u-S	70706	70-4S	2M3	dDP
mpCohe dbe	1-SJ1	17	17	S		u6M1S	dDP
mpCohe dbe	1-SJ2	7	17	7	0	u6M1-	dDP
mdkpN	6SJ2	1477	14S7	1440	142u	1M-	dDP
3ECPDECIbP	71J2	12-	1SS	1-S	12-	2SM3S	dDP
3CTPPdbe	7 J2	0770	01-1S	0770	020-6	1M4u	dDP
y ECodbe	1S7J1	022u60	01SuS7S	024S4-4	01 27u0	1M32	dDP
y ECodbe	1S7J2	710u142	7766Su0	7167 40	7276S-	7M4	dDP
: dl . odbe	4-J1	40S22S4	46 600	460u14u	46 7747	SM2u	dDP
: dl . odbe	4-J2	17 706	14u1u2	141 10	1471-	7M10	dDP
: pNp. dbe	u2J1	uu-	u0-	0u2	u40	6M10	dDP
: pNp. dbe	00J2	2S	20	27	27	14M2	dDP
: pNp. dbe	0uJ2	7	11-	1S4	1S4	1SMu	dDP
: dNdC.	2uJ1	27 02-	270u4-	2767u1	270 u4	SM7S	dDP
: dNpl	1S0J1	12264	120u1	12764	1240S	2M2S	dDP
: dNpl	1S J1	1S 7S	1107S	11101	11200	7M64	dDP
: Codbe	27J2	2SS226	2SS62-	2S26uu	2S11uS	SM66	dDP
: TC. Tdbe	u6J1	76S	74S1	72SS	74S7	6M3S	dDP
: TC. Tdbe	uuJ1	20u0	2-772	240S6	2- 02	6M40	dDP
: bNbl	74J1	202727	20 S6S	2061-4	20-u46	1M27	dDP
Aplr dbe	1- J1	0-72 S	u-7407	uS 22	uS-771	SM1	dDP
Aplr dbe	1- J2	7uu1 44	411 6-S	4S200u6	4SS 0 7	2M	dDP
AEl NNbe	2S7J1	1SS62	1S267	1S117	1S146	1M37	dDP
AEl NNbe	2S-J1	24424	24-S0	24u66	24-	SM6	dDP
Ac	11uJ1	14Su	1710	110-	17SS	M34	dDP
AdT. dbe	40J1	0S6	6 7-	6 7-	6 uS	1M1S	dDP
5ll . dbe	27uJ1	772S7	770 6	7771	7747	SM4	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 66B:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 66	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1 sS4s2-	&l Tl Rdpaml e pas	126LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	1S4u4	40	1S12S	1S1u4	2M6	dDP
YTpIr dbe	102J1	60	0-	u	-S	02M6-	dDP
YTpIr dbe	102J2	44	-6	2u	47	72M7	dDP
YTpIr dbe	106J1	1777	1277	1777	17SS	4M4	dDP
YTpIr dbe	106J2	1S747	11 S6	11422	11227	0M7	dDP
YTTdbe	u J1	17S S--	17Su6 4S	12 Su 60	17S2uu22	SM5	dDP
YTTdbe	u J2	12S S2u	17000 -	124-1S1	12007Su	6M6	dDP
Zc d	66J2	2624	266S	2-S4	2- 6	7M6	dDP
ZddC. dbe	SJ1	1-20-	1621u	14 77	1-406	4M5	dDP
ZddC. dbe	1J1	7S60	7726	7-S	77SS	6M2	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP usb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	2461: 42	2- : 01: :	2446- 14	24- h1h2	1M:	dDw
qCTb nCE	12171	1h0h	160h	2S60	1002	14N06	dDw
qpwr Ccd	0h72	6N: N	6621	6066	6062	2N8h	dDw
Bspcmb	1- h71	20- h1S	20N: 22	204N02	20h06N	1N82	dDw
Bspcmb	1- 071	4: 2110	4: 6S10	4Nh2- N	4: 1124	1M1	dDw
Br pEPRmb	: 71	11N4	11S2	11- 6	1141	- M1N	dDw
Bcwb mTG	2S: 71	hN6: 422	6- N2: - N	6: Nh01-	64126: 1	NM1	dDw
Bcwb mTG	2S: 72	- 1N6N: N	- 2- hN21	- - - 64S:	- 2h- S4-	2M4	dDw
Bpmb cCr	N171	h126	4Nh:	hSN4	hS2-	2NM6	dDw
5 sob cmb	1SN71	1- -	0h	60	: 2	- : M0-	dDw
5 sob cmb	1S671	- 1: 2	- 6S:	- : N4	- h: h	11N82	dDw
5 sob cmb	11171	hNN	060	60-	606	1- M2S	dDw
5 sPdcmb	4- 71	N46: S	N- 66:	N4S: 6	N41h2	SM61	dDw
5 sPdcmb	4471	1402N: :	14066h1	14: - 200	14NS: 42	SM0-	dDw
5 spenC	1271	20: : h0h	2N201hN	2NN2: h:	2N- 6h64	1M1S	dDw
5 spenC	1272	- 42: S	- 42h0	- 6SS-	- 4NhS	2NM0	dDw
5 GPmpcCr	- h71	1h414h- S	2S2642NS	2- h2- 6h2	1: 0- 41h4	2SM6N	dDw
5 GPmpcCr	- h72	1: - 0N4	2Sh- SN	21SSN2	2S- ShN	4M1-	dDw
5 Gpmb cmb	h272	1404h2	1440Nh	1462S:	14614N	SM11	dDw
5 nesPT	h: 72	1S42h2	1S4- - h	1S- S40	1S- N0N	SM6:	dDw
5 nDDr p	6- 72	20S4h2	201024	26: SN0	20S421	SM4:	dDw
&EwDpnwcmb	1h671	21S10	2S02h	214: -	21S0N	1MM4	dDw
&EwDpnwcmb	1h672	: 6N4	: 620	: h- S	: 614	SMM1	dDw
Fpecmb	16471	2166N	22100	2106N	21N01	1M2-	dDw
Fpecmb	16472	N- - -	N0: -	: SS-	N01S	- M4	dDw
HsonPCcmb	16S71	224: h	2242N	22661	22h2N	SM1-	dDw
HsonPCcmb	16S72	1S44N	11S0h	1S- 21	1S614	- MMS	dDw
KnPb cmb	16h71	N6114N1	: 10: 20h	1S- 42141	: - 006- 2	: M41	dDw
KnPb cmb	16h72	420NNSS	42: S641	4- 462S-	4- Sh21h	SMM4	dDw
tCocmb	11h71	611- : Nh	6h46Sh0	0- S2- 20	66h412-	: M84	dDw
tCocmb	11h72	: 6S146	: N6S4S	: : 2SNS	: 0: 422	1M0-	dDw
tpnC	h472	4: 02- N2	4: 04hh:	4: 001S4	4: 046N2	SM8h	dDw
tpnC	h672	: S2N2: - S	: S: 40: 00	: 1- hS004	: SN6Sh6S	SM1:	dDw
tpnC	h072	2- hhS40	2- 6S: 4N	2- 0S: : -	2- 62- 2:	SM4	dDw
gpEDTnC	N- 71	26S	- - S	2: S	2: -	11M0	dDw
Lr so	2S671	h4026	h4: N-	h44- 1	h401-	SM11	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP usb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	46N46	4h0- 1	44020	4h06N	2M12	dDw
Lr so	2SN71	21hNh0	21- N21	2126S0	214S: h	SM00	dDw
LdTGmb	671	2- S2h2N	24110N0	2h4N1SS	242SNSh	hMSN	dDw
9 sk Or wcmb	2472	- S0- 2N1	- S4: 446	- 1- N0- 6	- SN01h4	1M1S	dDw
9 sCksOr wr	hh72	11- h1- S	112: - - N	11- 26: N	11- 2- N:	SM26	dDw
9 nPEeor Cmb	: 471	11h02	11040	110Sh	1160h	SM0N	dDw
9 nPEeor Cmb	: h71	- 0h:	41S:	- : 10	- : 2N	4M46	dDw
9 nPEeor Cmb	: 671	hNh1	hNh1	61h2	h: h1	2M11	dDw
9 nPEeor Cmb	: 071	2- 42	260h	24: 2	2hS-	6M60	dDw
9 nPEeor Cmb	: N71	614-	6100	6600	6- - 2	4M02	dDw
u r noEb cmb	1hS71	2N116	2N1S-	20: 6:	2NS6-	SM2:	dDw
u r noEb cmb	1hS72	N64-	Nh: -	NN66	N0S1	1M60	dDw
u cdvr P	6S72	124S0:	126hh4	12- S- 0	124hh0	1M4h	dDw
8 GhwDGhpmw	- 172	21: 2	2410	2142	22hS	6M11	dDw
8 nTswwcmb	- : 72	1S- 01-	1S2: 16	1S- h0:	1S- 4S-	SM41	dDw
. Ghocmb	1S- 71	6140N- 0	66: hS: h	01410N2	6661h01	0M40	dDw
. Ghocmb	1S- 72	- 22- 0N:	- 2: 0N61	- - 40SS:	- 2N: hh-	1MN:	dDw
l ds Cocmb	4h71	414: : : 4	44hN64h	4: hS: 20	4h1: Nhh	NM4	dDw
l ds Cocmb	4h72	14: : 0h	1h1- 0-	1hS4hh	1hS6S1	SM40	dDw
l r PP Cmb	N271	N1	71h	h4	4S	12- M2	dDw
l r PP Cmb	0072	- -	h-	10	- 4	h- M2:	dDw
l r PP Cmb	0N72	- 6	40	- -	- :	1: M36	dDw
l dPdnC	2N71	216: 2114	216: 01N6	21hhSh- 2	21646611	SMN	dDw
l dPr p	1S071	02h	02h	6N-	011	- MN	dDw
l dPr p	1S: 71	610	60h	hhS	614	1SM1:	dDw
l nocmb	2- 72	0101S	02: - h	02: : 2	02h46	1M3S	dDw
l TpnCTcmb	N671	NN4- :	NNN41	: SS2-	N: 1S1	SM2	dDw
l TpnCTcmb	NN71	0: : 6: 4	0N162:	00- 2S:	0N4N44	1M02	dDw
l mPVmp	- 471	26SN66	2h2261	2hSh0:	2h4h6:	2M10	dDw
Ar pecmb	1h: 71	N6- - 1- :	: 1- h626	1S2S- 211	: - 2- : : 2	NM6S	dDw
Ar pecmb	1h: 72	411- S44	4164S4N	422242h	4166hS6	1M1	dDw
AGs RPcmb	2S- 71	12SS	11- -	1- hS	122N	: M34	dDw
AGs RPcmb	2Sh71	20: 2	2N: 2	20: 2	2N2h	2M34	dDw
AdC	11N71	2: N4	- 10h	- 2h1	- 1- 0	4M:	dDw
AdS Cmb	4071	640N0-	6hN: 0N	6hh- h4	6h4S6N	SMN0	dDw
RpsCmb	2- N71	- 42N:	- - 0S4	- 21hN	- - - N-	- MS	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP u sb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	142hS:	142242	14142N	142S6S	SM4S	dDw
YTTr pe omb	10271	641S	64h2	626N	6- 00	1M11	dDw
YTTr pe omb	10272	- SS6	- S60	- S0N	- ShS	1M2N	dDw
YTTr pe omb	10671	hS6N	h4h1	h2S1	h24S	- M02	dDw
YTTr pe omb	10672	1- 4: 6	1- 2Nh	142- 6	1- 602	- M6h	dDw
YTTpomb	N: 71	11N: Shh1	12- 1: 226	1- h4S6- 1	12hN- 46:	6MMS	dDw
YTTpomb	N: 72	14S- - h:	1- 6- 0S0	142h264	1- : 044-	2M4-	dDw
ZdCd	6672	- - 4h6	- 4- 22	- - h4-	- - 004	1M41	dDw
ZqpdnComb	: S71	2hN16	2h- 4N	26- SS	2hN22	1MM4	dDw
ZqpdnComb	: 171	h: Nh	hNh1	624-	6S26	- M1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4- - 7S	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y shd J2T	T8biqC. :MwOICI:a	1
Twip:A:cqe p:dOobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMd8p:mwe p:a	12udF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	2- - 2260	2- 00JJ4	2- u2 -	2- 64201	1R1u	OI
d. iqe C. E	12171	12Su	102	16 S	1 2u	1uR20	OI
dIl p. qO	0 72	6 0	6 41	6 Ju	6 66	SR4	OI
Bwldpe	1- 71	260J- -	20S- 04	26Juuu	26J- JJ	SR4u	OI
Bwldpe	1- 071	402JSJ	40- 214	40212S	40204u	SR12	OI
BplE8dpe	J71	11- S	1S06	11 S	111J	- R41	OI
Bdqe biG	2SJ71	60 1S21	6uJJu14	6J- 22	6u6211J	1R4-	OI
Bdqe biG	2SJ72	- 2 S62	- - - 4604	- 26- u01	- 2u- S 6	1Ru	OI
BIOe q p	u171	S06	S 1	404-	4J 0	- R0	OI
9 wne dpe	1Su71	u-	J6	1S4	J4	11R11	OI
9 wne dpe	1S671	- 026	- 6 J	- J42	- 006	- R12	OI
9 wne dpe	11171	6- 1	61	J6	J6	R14	OI
9 w8Odpe	4- 71	u161S	u- 02	u- JS	u2J0	1R4-	OI
9 w8Odpe	4471	14u- u41	14u 4u4	14662uJ	140u - u	SR02	OI
9 wIr C.	1271	200 SS1	2uS60JS	2u- 01	2uS u-	1RSu	OI
9 wIr C.	1272	- - 6u1	- - - J0	- - 121	- - 4SS	SR14	OI
9 G8Clq p	- 71	2- 202J4u	2uS6041-	- Su0uJJ	204S64 2	14RS-	OI
9 G8Clq p	- 72	2- S4S	2- 12S	24- - -	2- 62J-	2R00	OI
9 GIOe dpe	272	160S60	1666u6	16442S	166S u	SRu6	OI
9 Or w8	J72	1S6 22	1S - 2-	1S 44S	1S 062	SR62	OI
9 Ot t pI	6- 72	262 10	262- 0u	26 061	26- 2	SR0-	OI
TEI t IOI dpe	1 671	2S- 4J	2S6 S	2101u	2SJS6	- R44	OI
TEI t IOI dpe	1 672	J120	J- 6-	u04-	JS0u	- R4	OI
UIr dpe	16471	2S060	21 S1	21- 10	211J	1RuS	OI
UIr dpe	16472	u006	u24J	u64S	u	- R2S	OI
HwnO8q dpe	16S71	21- S1	22S20	214 J	21 J6	1R00	OI
HwnO8q dpe	16S72	1S0 u	1S- 14	1S- J1	1S4uu	2R26	OI
KO8e dpe	16 71	JJS	1SSS41 2	JJ4 2J	JJ 104	SRS	OI
KO8e dpe	16 72	421 620	4- 4J00	41024 J	42406uu	2R2	OI
& ndpe	11 71	6JJ- S1u	02J2664	020 6S1	01u0SJ4	2R4	OI
& ndpe	11 72	J664- u	Ju2JJJ	J - - 0	J606 u	1R-	OI
&C.	472	S4 S0-	S1 21J	4JJ061S	S1J- S1	SR4u	OI
&C.	672	J- 1uJ0- u	J11- 6S04	uJJ 2- J1	J1426S6u	1R0J	OI
&C.	072	24116- 1	2- 414JS	2- - 1400	2- 61 - -	1Ru	OI
gIEt iC.	u- 71	200	2J1	- S1	2JS	4R11	OI
Lpwn	2S671	22u-	- 61	240u	2004	1RS	OI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4- - 7S	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y shd J2T	T8piqC. :MwCICI:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMt8p:mwe p:a	12ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	420 4	4- 1	42uuu	4- S64	SR3J	CI l
Lpwn	2Su71	2S- 22S	2S6- S0	2S - S2	2S4J4-	SR00	CI l
LqiGdpe	671	2 - S2	26J S	266- 0	26- 020u	2R4-	CI l
y wk. pl dpe	2472	2JJ0S1J	- S2 422	- S2u 0-	- S10SS	SR u	CI l
y w. kw. pl p	72	111210	11S6- 4J	11S2SSu	11S6u44	SR46	CI l
y C8Er np. be	J471	11- 22	11J- J	124S6	11uuJ	4R 0	CI l
y C8Er np. be	J 71	4S- 4	4206	4226	410J	- R5	CI l
y C8Er np. be	J671	6- 00	61u	621u	626S	1R64	CI l
y C8Er np. be	J071	24u4	2u S	20SJ	26u1	6R3S	CI l
y C8Er np. be	Ju71	60 2	6020	6u6S	60uS	1R5	CI l
mpOnEe dpe	1 S71	206u2	2u6 u	20 0	20J02	2R1-	CI l
mpOnEe dpe	1 S72	uuSS	u 6J	u -	u641	1R6S	CI l
mqOvp8	6S72	124u2	122J2J	12- S24	12- J-	SR46	CI l
NGCI t GCIbl	- 172	220	21J2	2- 10	2261	2R42	CI l
NCiwl l dpe	- J72	1S- - 1S	1S16u-	1S1 uJ	1S21J4	SR3	CI l
F GCndpe	1S- 71	01- u- 06	0S44616	0S0S2	0Su4416	SR6u	CI l
F GCndpe	1S- 72	- 26Su0u	- - 4161u	- 2- Ju22	- 2uS002	1R64	CI l
DOw. ndpe	4 71	401S210	4u24 u	400S6- 0	406u401	1R2S	CI l
DOw. ndpe	4 72	1 S106	1 4012	14 u14	1 S2- 4	2R16	CI l
Dp8p. dpe	u271	J	1	16	- S	u- R5-	CI l
Dp8p. dpe	0072	40	- S	4S	- J	21R 0	CI l
Dp8p. dpe	0u72	- 2	- u	41	- 0	12R J	CI l
Dq8QC.	2u71	2S01uu60	2Su06626	2S644J11	2S046uS1	SR 0	CI l
Dq8pl	1S071	u-	0J2	6u-	6u6	1 R1J	CI l
Dq8pl	1SJ71	S	42	62	02	uR52	CI l
DOndpe	2- 72	02 0-	6J- - 2	0SJ 6	0SJ 4	2R2u	CI l
DilC. idpe	u671	u J1	u0uS1	u0uJ-	u02S-	1R2u	CI l
DilC. idpe	uu71	046166	04u S0	0 u- S0	0 SJJ-	SR46	CI l
Db8Vl	- 471	240 J6	2- JS21	2421 0	242J2	1R0J	CI l
cplr dpe	1 J71	J66J104	JJ 202J	1SSS- uJJ	Ju0 26u	1R4-	CI l
cplr dpe	1 J72	4S6u4u1	41466- J	4S64JJ	4SJ- - 02	1R1-	CI l
cGw8pe	2S- 71	J60	uSS	1Su-	J S	14R3J	CI l
cGw8pe	2S 71	26- 4	2110	24J2	2414	11R56	CI l
cq	11u71	26- 4	2JSS	2J10	2u10	R6	CI l
cqiw. dpe	4071	6 - - 6-	6 u1 J	641- 21	6 SJ4u	1R -	CI l
5 Iw. dpe	2- u71	- 2460	- 2626	- 2u4-	- 264	SR u	CI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 - 4- - 7S	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T :a	y shd J2T	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMt8p:mwe p:a	12ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
hw. wndpe	172	144SS0	14Su42	14SJu6	141J4	1R26	Qtl
Yiiplr dpe	10271	61S2	62u	62-	62S0	1R -	Qtl
Yiiplr dpe	10272	- S- 4	2J61	- - 2-	- 1S6	6R1	Qtl
Yiiplr dpe	10671	206	- 1	- 1	- 26	SRu1	Qtl
Yiiplr dpe	10672	1- - 24	1- 424	1- 2S1	1- - 16	SRu4	Qtl
Yiildpe	uJ71	12J S1S1	1- 26SS4	1- 2212u	1- 244SJ1	2R16	Qtl
Yiildpe	uJ72	1- 16- S4	1444JSu	12uu6u0	1- 4JJ66	6R1u	Qtl
Zq O	6672	- - 02-	- 4- - 2	- 406-	- 420-	1R 2	Qtl
ZdlOC. dpe	JS71	24u2-	2 004	26 SJ	2 0S2	- R2J	Qtl
ZdlOC. dpe	J171	6SS1	u26	6- 1S	6S46	4RS	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23O2	4- O661	4- 1366	426612	42: 6NO	OU6-	ql w
cR&b nRy	12101	- 7O	- 13	- - -	- - -	7UOO	ql w
cSvr RAq	37O2	12ON	12: N	121:	1242	- U7	ql w
BsSAmb	1- 701	712: O	7144O	71666	71467	OU3	ql w
BsSAmb	1- 301	N: 32-	: O271	: O6- 3	: O2O4	OU71	ql w
Br SyPAmb	: 01	23O	277	2: 4	23-	3U16	ql w
BAb m&a	2O. 01	63144- 4	6N47: 4:	63N1- : -	63NO7: 2	OU3	ql w
BAb m&a	2O. O2	- 22: - 36	- ON- 1- 3	- 16N6O7	- 16O- 3-	2U2	ql w
BSmb ARr	N101	- : 63	4O26	446N	4174	6U7N	ql w
Msob Amb	1ONO1	2:	- -	- N	- -	12U7O	ql w
Msob Amb	1O601	- : 63	- 613	- 436	- 6N3	6UN3	ql w
Msob Amb	11101	4N7	4O.	- N4	426	12U2	ql w
MsRqAmb	4- 01	1777O	17NO.	17N77	173- N	1UO7	ql w
MsRqAmb	4401	2N6- : 4	2N3: 46	2N: NOO	2NNO43	OU7:	ql w
MsSenR	1201	27: 14: 2	267766-	26- 2: 2N	26266: 4	1U24	ql w
MsSenR	12O2	- 1113	- O. N-	- O734	- ON: 1	OU2	ql w
MhPSRr	- 701	11O23: 7O	11273: 24	11ONN324	11124N66	1UO3	ql w
MhPSRr	- 7O2	37O3N	3- : - O	3- : 32	34- 23	OUNN	ql w
MhSmb Amb	72O2	2N137	2: 27O	2N362	2N32:	1UN3	ql w
MnesR&	7: O2	1: 7O-	1: NO4	1: 3OO	1: 66:	OU3N	ql w
MnI I r S	6- O2	72673	7161-	7247-	72241	1UO6	ql w
t ywl SnwAmb	1760 1	- 3: 2	4113	4263	4O7:	7U N	ql w
t ywl SnwAmb	1760 2	1N3-	16N3	1N3O	1N1O	7U O	ql w
FSeAmb	1640 1	4271	- 326	42O.	4O62	3U1:	ql w
FSeAmb	1640 2	1N23	17: -	1623	16N2	3U7O	ql w
GsonPARAmb	16O01	- 3N4	4O- 4	- 6N4	- N- 4	4U3O	ql w
GsonPARAmb	16O02	2O24	2O33	22- 4	2111	7U13	ql w
KnPb Amb	1670 1	: 47N: N7	: 44634O	: 6: : 177	: 7- 4: 6O	1U4:	ql w
KnPb Amb	1670 2	421O4- 3	4O44NO2	41O677-	412O7: 3	2UO-	ql w
DRoAmb	1170 1	6: 3N777	6: 6- 2- O	6: 74721	6: 674- 7	OU13	ql w
DRoAmb	1170 2	: 613ON	: 47- 47	: 4O74N	: 4: 2OO	1U13	ql w
DSmR	74O2	NN4476	N: : O4N	NN7761	NN: 6NN	OU1	ql w
DSmR	76O2	13263O4:	1371713-	13O626N1	132N16- 4	1U1	ql w
DSmR	73O2	4O4364	4O. 611	4ONN34	4O337O	OU64	ql w
gSyl &aR	N- 01	2N2	233	2N3	2N2	1U33	ql w
Lr so	2O601	11- N-	1O7- 2	11O44	1O. N6	- U O	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i A r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O301	: ON1	N63O	NN3O	NN34	2U2	ql w
Lr so	2ON01	4- 4: O	41NOO	4- O: 6	423: 7	2U03	ql w
LA&nAmb	601	27767N2	272ON: O	273O163	274: 21-	1U0O	ql w
HskRr wAmb	24O2	76- 2O6	76O- - :	76123:	7616ON	OU26	ql w
HsRksRr w	77O2	211O76	2126- 7	212: 7:	212213	OU4N	ql w
HnPyeor Rmb	: 401	2- 7:	2- : 2	2- 42	2- 64	1U0N	ql w
HnPyeor Rmb	: 701	: 42	NON	N7N	N6:	3U37	ql w
HnPyeor Rmb	: 601	11N-	12ON	11: 2	11: 7	1U03	ql w
HnPyeor Rmb	: 301	437	463	47N	463	1U3:	ql w
HnPyeor Rmb	: N01	11N-	1413	1- 13	1- O6	NUJ 3	ql w
ur noyb Amb	17O01	72N1	7- 21	7- 14	7- O6	OU4O	ql w
ur noyb Amb	17O02	137O	164-	131-	13O2	- U1N	ql w
u Aqvr P	6O02	24O: 3	2- : : O	24ON3	24O7N	OU27	ql w
8hnwl hnSnw	- 102	437	713	7OO	4: 3	4U22	ql w
8n&swwAmb	- : 02	2N2- 3	2N- 2N	23N11	2N127	OUJ N	ql w
EhnoAmb	1O- 01	3O1: N- 2	6N: 6131	3O2: : 4N	6: N1: N4	1U03	ql w
EhnoAmb	1O- 02	- 2: 4347	- 164742	- 161213	- 2O6N- 7	2U3	ql w
pqsRoAmb	4701	477O434	46N- 72-	46: 3: 71	464- : N-	1U37	ql w
pqsRoAmb	4702	14- : 3-	144O67	142274	14- 4- 1	OU31	ql w
pr P RAmb	N201	046	04	024	027	0N6U4:	ql w
pr P RAmb	3302	1O	1O	O	3	N6U6O	ql w
pr P RAmb	3N02	2O	2-	16	2O	13UN6	ql w
pAAqnR	2N01	4177243	41O1312	414- 1- 4	41- - - 67	OU6N	ql w
pAPr S	1O301	227	263	- ON	263	17U6-	ql w
pAPr S	1O: 01	2- -	2ON	2ON	213	6U66	ql w
pnoAmb	2- 02	- O7: :	2: 232	2N3N3	2: 77-	- U13	ql w
pSSnR&Amb	N601	13N3O	1311:	16372	13243	- UJ O	ql w
pSSnR&Amb	NN01	14- 661	14O66-	146- 61	14- 762	1UJ :	ql w
pmPVnS	- 401	2431- 1	242N6O	242N23	24423-	1U01	ql w
i r SeAmb	17: 01	: : 34162	: : O2NN-	: NO436:	: N: - : - N	OUN6	ql w
i r SeAmb	17: 02	41O7472	4O47O1-	4O2N44-	4O7: 6- 6	1U0O	ql w
i hsPAmb	2O- 01	- 63	- N-	4ON	- N6	7U4-	ql w
i hsPAmb	2O701	NOO	1O42	: N-	: 42	1- UJ :	ql w
i AR	11N01	1442	12- -	14- -	1- 3O	NU61	ql w
i A&sRAmb	4301	11: 4- N	121OO2	127274	121N: N	2U43	ql w
CSsRAmb	2- N01	6- 4-	64O2	7: 23	6224	4U16	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Sm b Rr &u sb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP u sb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
9sRsoAmb	71O2	23O42	267- N	266NN	26376	OU3	ql w
Y&&SeAmb	13201	1263	1137	1237	12- :	4U4N	ql w
Y&&SeAmb	13202	7- -	7N:	3O6	6O:	14U4-	ql w
Y&&SeAmb	13601	1N37	1: 7O	1: N4	1: - 6	2UN3	ql w
Y&&SeAmb	13602	116- :	11432	11N- :	1167O	1U7N	ql w
Y&&SAmb	N: 01	126: 7122	1234617N	1- O46323	12N2: - - 6	1U4N	ql w
Y&&SAmb	N: 02	12: - 4N4	1- 2OO71	12614- 4	12: 1676	2U23	ql w
ZARq	66O2	6N12	64N7	646N	67NN	2U4	ql w
ZASqnRAmb	: O01	4: 71	7- 6N	7- 26	7217	4U4O	ql w
ZASqnRAmb	: 101	11- -	11- -	1O37	1114	- UO2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2I	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdP u sb r J	1- Sq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCmb	2072	21Nh: - S	21h1016	22S620N	21N1- SN	1M26	dDw
qCTb nCE	12171	11- S: 1	11- NN2	11- : N2	11- 6h2	SM4-	dDw
qpwr Cd	0h72	0- 06	0242	0102	026-	1M4-	dDw
Bspmb	1- h71	04N: 04	0h121-	064206	0h4N21	1M8:	dDw
Bspmb	1- 071	1- 24hNS	1- 466: -	1- hh66h	1- 42- 1-	1M1:	dDw
Br pEPmb	: 71	16h6N	166- h	16h: 0	166SS	SM2S	dDw
Bcvb mTG	2S: 71	60h: : - 4	0SN201-	6: h6- - 0	6: - 2: : h	2Mh	dDw
Bcvb mTG	2S: 72	- 20Sh1-	- S: 1NN:	- 10241S	- 10N201	2MM1	dDw
Bpmb cOr	N171	46- 4	401N	4N1N	402-	1M4	dDw
5 sob mb	1SN71	: 21	: 0:	11SN	1SS-	: M10	dDw
5 sob mb	1S671	hSh1	h606	h1N4	h- S4	6M21	dDw
5 sob mb	11171	142- 1	14S1:	14h- S	1426S	1MMS	dDw
5 sPdmb	4- 71	06N4N	0N41-	001- 2	0046h	1M8N	dDw
5 sPdmb	4471	1- 6- 4SS	1- h: NN2	1- NS2N4	1- 60Nhh	SMMS	dDw
5 spenC	1271	2h4h- N0	2h62- hh	2hN44h6	2h64S66	SM06	dDw
5 spenC	1272	- 1S: 2	- S: SS	- S0- -	- S: SN	SM1N	dDw
5 GPmpcOr	- h71	2160h: : 1	201SShhh	- S22- 64S	26- - - - : h	16M42	dDw
5 GPmpcOr	- h72	2- 2hh2	2- 6N41	244hSS	2- 0: 64	2M14	dDw
5 Gpmb mb	h272	2: 4: 6S	2: hNh-	2: 410h	2: 4: : 6	SM2N	dDw
5 nesPT	h: 72	4226- 1	421206	414: 22	41: 61S	SMMN	dDw
5 nDDr p	6- 72	- 6- - 1S	- hNh: 2	- h44S0	- hN00S	1M24	dDw
&EwDpnwmb	1h671	1: h0-	1: S- 1	2SSh0	1: hh4	2M0-	dDw
&EwDpnwmb	1h672	N6NS	Nh6-	N6S-	N61h	SM0:	dDw
Fpemb	16471	1: 0h0	1: : h0	1: 164	1: 626	2M1S	dDw
Fpemb	16472	0: 2:	0NS2	0N16	0N4:	SMM:	dDw
HsonPCmb	16S71	1: 6: N	2S02h	2S441	2S2NN	2M61	dDw
HsonPCmb	16S72	: hS0	: 62S	: - - -	: 4N0	1M12	dDw
KnPb mb	16h71	: N44140	1S61Sh46	1SS6N: : 0	1S104h6-	- MM0	dDw
KnPb mb	16h72	420S2- S	- : 66: 6-	4S: 10S2	41S: 6- 1	- M01	dDw
tComb	11h71	0124- 10	06144N0	02N: 60S	0- 42N24	- M4S	dDw
tComb	11h72	: 04- : 1	: 1SS66	: 2- - h1	: - h: - 6	- M0-	dDw
tpnC	h472	h1212- 0	4: 42112	4: 1- 1N6	4: : 210N	2M26	dDw
tpnC	h672	N: : - 2S16	: S- Nh2: 6	NN- 1621-	N: h44hSN	1M21	dDw
tpnC	h072	2- 4S: h4	2- 1Shh0	2- - 40: -	2- 2N06N	SM0:	dDw
gpEDTnC	N- 71	- S2	- S0	20h	2: h	hM-	dDw
Lr so	2S671	6041:	6: hh-	600h4	6N242	1M0N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 ayq : 2l	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdP usb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	h6S4:	h0612	h0- 1S	h6: : S	1M4h	dDw
Lr so	2SN71	264N6S	260N44	26hh42	266SN2	SM1:	dDw
LdTGmb	671	26- SS44	20: : 4- 2	202: 01h	201: 0- S	- M1-	dDw
9 sk Or wcmb	2472	2: SS20-	2NhS: 46	2NhSShh	2N60S: 1	1N3S	dDw
9 sCksOr wr	hh72	11Sh: 0-	1S: 2- 6S	1SN- : S1	1S: 4S0N	1N32	dDw
9 nPEeor Cmb	: 471	12- 4N	1- 14S	12h0-	126N0	- M22	dDw
9 nPEeor Cmb	: h71	h- 1N	6S26	hhS1	h61h	6M1h	dDw
9 nPEeor Cmb	: 671	0661	N20N	06S2	0N40	4M00	dDw
9 nPEeor Cmb	: 071	- : 26	- 042	- 610	- 062	4M12	dDw
9 nPEeor Cmb	: N71	: SN0	: h4h	N00N	: 1- 0	4M4-	dDw
u r noEb cmb	1hS71	2hN4h	24: 24	26S: :	2h62-	2M41	dDw
u r noEb cmb	1hS72	0N4:	066:	NS16	0N4h	2M21	dDw
u cdvr P	6S72	2S1h: 1	2S- NSh	1: : 14:	2S1h1h	1M16	dDw
8 GhwDGhpmw	- 172	21S:	1: 42	2S: 2	2S40	4M4N	dDw
8 nTswwcmb	- : 72	: 6666	: 2: hN	: 4N2S	: 4N14	1M16	dDw
. Ghocmb	1S- 71	6: S1614	06: 0: hN	01262S6	0241: 26	hM00	dDw
. Ghocmb	1S- 72	- 2hShh1	- 12141h	- 10S616	- 1NSN61	2N3h	dDw
l ds Cocmb	4h71	4N2N: 6h	h2S: h02	4: 642NN	hSSS: 42	- MN6	dDw
l ds Cocmb	4h72	14: 6: 1	141262	14- 6: -	144NN2	2M1:	dDw
l r PP Cmb	N271	2S06	2144	22N1	2160	4MN2	dDw
l r PP Cmb	0072	1S0	11S	: -	1S-	NM14	dDw
l r PP Cmb	0N72	244	24N	212	2- h	NM41	dDw
l dPdlnC	2N71	1: 2hh41N	1: S6- 060	1N: NS1N4	1: S: : 0N:	SM04	dDw
l dPr p	1S071	6261S	6- N6h	6- N04	6- 4hS	1M1h	dDw
l dPr p	1S: 71	h: 41-	61hN:	61S0N	6S6: -	1MN0	dDw
l nocmb	2- 72	6h2S4	64141	64N4h	640- S	SMN4	dDw
l TpnCTcmb	N671	0: S0-	NS2NS	0: 2N4	0: h46	SMN1	dDw
l TpnCTcmb	NN71	6NSS- 1	60011S	60- 2- 2	6060: 1	SM1S	dDw
l mPVmp	- 471	2- h6S0	2- 6N0N	2- hh- 4	2- 6SS6	SM12	dDw
Ar pecmb	1h: 71	1SS- S- 0-	1SNN- 6- -	1S2N- 2- S	1S- : : S0N	4M21	dDw
Ar pecmb	1h: 72	41N446N	- : SNN6S	4S2- 010	4S- : S1h	- M4-	dDw
AGsPPcmb	2S- 71	hN6- -	h: 2: 4	h: 66-	h: 1: 6	SMNN	dDw
AGsPPcmb	2Sh71	14S642	142N14	1461- h	14- 1: 0	1M-	dDw
AdC	11N71	2N42	20SS	- SSS	2N4N	hM20	dDw
AdSCcmb	4071	6162- h	62h616	61: 0- 4	62Sh2N	SM06	dDw
RpsCcmb	2- N71	- S40:	- S66-	- S001	- S6- N	SM4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2l	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdP u sb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	20S- N6	2604N6	26N2N4	26N01:	SM16	dDw
YTTr pe omb	10271	h06S	h6h1	hhS1	h6- 0	2M1S	dDw
YTTr pe omb	10272	20hS	20N:	2: S6	2N1h	2MMN	dDw
YTTr pe omb	10671	4: 4-	hSN4	46h1	4N: -	4M12	dDw
YTTr pe omb	10672	1- 4S0	12: 0-	1- S4S	1- 14S	1M0N	dDw
YTTpomb	N: 71	1- 2044N6	141: - : - :	1- 461- S0	1- 64- 244	- M16	dDw
YTTpomb	N: 72	1- 14066	12- h4N6	12hh60S	126N641	- M2h	dDw
ZdCd	6672	62420	61- 02	6S: - 0	61h0:	1M24	dDw
ZqpdnComb	: S71	2hN4-	24- hh	2464N	24: 4:	- M16	dDw
ZqpdnComb	: 171	h4S1	hhh1	h: Nh	h646	hM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	2271- 4	2260u-	226474	226124	SRJ	CI I
d. iqe C. E	121 1	4406	4471	71- 4	46u0	uR20	CI I
dIl p. qO	07 2	122u	1214	12S6	1216	SR12	CI I
Bwldpe	1- 7 1	2SJ22J	2S0404	2S0116	2S0J4S	SR74	CI I
Bwldpe	1- 0 1	- 6J40S	- 60- 24	- 6u- u2	- 6u- J2	SR2J	CI I
BplE8dpe	J 1	2177	2277	21J0	22S2	2R2u	CI I
Bdqe biG	2SJ 1	7JSu7- 1	0SJJ22u	6J2- 006	664- u47	JR6u	CI I
Bdqe biG	2SJ 2	- 2460S2	- 470406	- 1u200u	- 2J7672	4R 6	CI I
BlCe q p	u1 1	7SS1	4JS1	476u	4u2-	4R01	CI I
9 wne dpe	1Su 1	J6	uu	7u	u1	24R47	CI I
9 wne dpe	1S6 1	- 6S1	41- 4	- J60	- JS1	0RSS	CI I
9 wne dpe	111 1	uuJ	u- 6	u4-	u76	- R 6	CI I
9 w8Cdpe	4- 1	41u070	41JJ01	414SJ1	4106S6	SR04	CI I
9 w8Cdpe	44 1	6Ju1- 6u	0- S7- 12	0SJ67Ju	012006S	2R S	CI I
9 wlr C.	12 1	- 1J14- 7	- 1u062J	- 1u74u1	- 1uu1u2	SRSJ	CI I
9 wlr C.	12 2	- 04u2	- u- J2	- u6u7	- u1u6	1R64	CI I
9 G8Clq p	- 7 1	2- - 61uS1	2010112J	2u64S626	26- J11u7	1SR 2	CI I
9 G8Clq p	- 7 2	21S120	22SJSS	222201	210066	- RS7	CI I
9 GlCe dpe	72 2	24JS7	2710J	24J- 2	27SS7	SR6S	CI I
9 Cr w8	7J 2	121S2	122u7	11Ju2	1212-	1R26	CI I
9 Ct t pl	6- 2	42- J-	421J-	4221J	4226u	SR26	CI I
TEl t ICl dpe	176 1	6- - 42	6- 07-	642- S	6- 007	SR0S	CI I
TEl t ICl dpe	176 2	27- J1	27444	270u2	277- J	SRu-	CI I
Ulr dpe	164 1	4- 764	421S1	42061	42uSJ	1R01	CI I
Ulr dpe	164 2	10124	16000	10- 6u	10SJS	1R04	CI I
HwnC8q dpe	16S 1	72J14	7SJS6	7S7S7	71442	2R71	CI I
HwnC8q dpe	16S 2	2- 66u	24J2-	24026	244- J	2R06	CI I
h C8e dpe	167 1	u60464-	J04- 210	1SS- 67u-	J4u4u14	0R76	CI I
h C8e dpe	167 2	41J0uJ7	47- J7SJ	41671Su	4- SSu- 0	4Ru2	CI I
& ndpe	117 1	6114077	0SS07- 0	02S40u2	60076J1	uR70	CI I
& ndpe	117 2	J67J77	1S- 41J4	J74701	Ju4JS0	4R 0	CI I
&C.	74 2	1117020	112614u	11126S7	111u16S	SR6-	CI I
&C.	76 2	214- u060	21Juu400	2106u62u	210- 1J70	1R20	CI I
&C.	70 2	7S72S7	717- 4-	721662	714S0S	1R61	CI I
KIEt iC.	u- 1	- 16	- 11	- 16	- 17	SR12	CI I
Lpwn	2S6 1	162Ju7	16- 77J	162- - -	162J7J	SR u	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	1- 4Su2	1- S4SS	1- S- 1S	1- 17J0	1R64	OI
Lpwn	2Su 1	6- 42u4	6- - 0S1	6- 2S44	6- - - 4-	SR1u	OI
LqiGdpe	6 1	2- S4600	27647- -	26- 002-	27S2- 11	6R3J	OI
y wg. pl dpe	24 2	uu1JSS	uJ- 24-	u6J1J-	uu1447	1R 6	OI
y w. gw. pl p	77 2	47207u	476- 76	4720u0	47- J60	SR46	OI
y C8Er np. be	J4 1	16S6u	1616S	16u00	16- 6u	2R01	OI
y C8Er np. be	J7 1	6SS1	611u	70u7	7J6u	2R14	OI
y C8Er np. be	J6 1	u6u6	uuu6	J20u	uJ7S	- R 6	OI
y C8Er np. be	J0 1	4S26	- 0SJ	4S71	- J2u	4R17	OI
y C8Er np. be	Ju 1	JJ0J	JJJ7	J62S	Ju67	2R17	OI
mpOnEe dpe	17S 1	114061	11- 7u4	11S21S	112u72	2RSJ	OI
mpOnEe dpe	17S 2	- 4224	- 4104	- - J2-	- 41S0	SR40	OI
mqOkp8	6S 2	6422	67S7	670u	67S2	1R21	OI
NGOI t GOIbI	- 1 2	16SS	17J2	10Su	16- -	- R3J	OI
NOiwI dpe	- J 2	101614	10012J	104007	1047S6	1R7J	OI
F GOndpe	1S- 1	614JJ42	010- J7J	016040-	6u- S47u	uR6-	OI
F GOndpe	1S- 2	- 2712u6	- 717666	- 24S27J	- - - 70- 0	4R60	OI
DOw. ndpe	47 1	- JSJ04u	4766uu1	401S- 16	4- J764u	JR01	OI
DOw. ndpe	47 2	1470uu	17770S	142774	140J01	4R7u	OI
Dp8p. dpe	u2 1	01	J1	111	J1	21R12	OI
Dp8p. dpe	00 2	14-	u0	11-	114	24R00	OI
Dp8p. dpe	0u 2	1S-	uJ	J6	J6	0R2J	OI
Dq8qC.	2u 1	07706uJ	0- J26u1	047u6Ju	046J6JS	1R1	OI
Dq8vpI	1S0 1	1SSu	1107	1160	1110	uR41	OI
Dq8vpI	1SJ 1	JSS	12- -	1107	11S-	16R14	OI
DOndpe	2- 2	7- u7u	77J7u	74uJ6	74JS4	1R31	OI
DiIC. idpe	u6 1	u22SS	u2JS4	uSJ4-	u2S16	1R21	OI
DiIC. idpe	uu 1	6Ju772	0S0S2-	0S- 2- 7	0S2J- 0	SR6S	OI
Db8bI	- 4 1	206677	2J10u0	2JJJ17	2uJ472	4RSu	OI
cpIr dpe	17J 1	u00- 4u7	1S11404-	1S244220	J01Su1u	uR J	OI
cpIr dpe	17J 2	4226u6S	442- 0uS	412706-	427uuS1	- R76	OI
cGw8dpe	2S- 1	147u	17- -	17u-	1727	4R1-	OI
cGw8dpe	2S7 1	- 1u4	- 471	- 471	- - 62	4R7u	OI
cq	11u 1	2644-	26S27	20161	2674-	2R16	OI
cqiw. dpe	40 1	- 22424	- 2040J	- 2- 1- -	- 24- 47	SR14	OI
5 Iw. dpe	2- u 1	4- J- 7	4616u	44211	44001	2R02	OI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	Tqbiq C. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMqb:mwe p:a	1- 1d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	2SS64	2S617	2S6J7	2S47u	1R3u	Ol l
Yiiplr dpe	102 1	12u67	1220-	11JJ0	12- 0u	- R7u	Ol l
Yiiplr dpe	102 2	7u71	6SS0	7046	7u6u	2R24	Ol l
Yiiplr dpe	106 1	J4u0	J147	J20S	J- S1	1Ru6	Ol l
Yiiplr dpe	106 2	172- 0	16Suu	17u67	170- S	2Ru1	Ol l
Yiildpe	uJ 1	1161J107	1- 44SJ62	1- u02121	12J0041J	JR21	Ol l
Yiildpe	uJ 2	14211- 2	14J2- 4u	1- 24440	1412642	7R10	Ol l
Zq O	66 2	- 0u04	- 066-	- uS7u	- 0u67	SR72	Ol l
ZdlOC. dpe	JS 1	- 42u4	- 40u6	- 7SJ7	- 4022	1R1u	Ol l
ZdlOC. dpe	J1 1	04u6	00u6	0JJ4	0077	- R S	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S7	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMt8p:mwe p:a	1- 2dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	221J64	222464	21J4u1	221- S-	SR02	Qt I
d. iqe C. E	121 1	42SJ	4006	46S1	472J	6R41	Qt I
dIl p. qO	07 2	1264	1240	12- S	1240	1R 6	Qt I
Bwldpe	1- 7 1	2SS410	2S- JJ1	2S2- - S	2S2246	SRuu	Qt I
Bwldpe	1- 0 1	- 7J7- u	- 64424	- 61160	- 6101S	SR6J	Qt I
BplE8dpe	J 1	2124	2104	2110	21- u	1R44	Qt I
Bdqe biG	2SJ 1	6u7- 474	01S417-	0S- u21S	6JJu6S6	1Ru6	Qt I
Bdqe biG	2SJ 2	- - 447- S	- - 12606	- - - u6- 6	- - - 1J40	SR71	Qt I
BlCe q p	u1 1	4J7J	404-	717J	4J74	4R21	Qt I
9 wne dpe	1Su 1	127	1S4	1- -	121	12R4-	Qt I
9 wne dpe	1S6 1	417J	- Ju4	4126	4SJS	2R20	Qt I
9 wne dpe	111 1	J16	uJ6	u67	uJ2	2Ru0	Qt I
9 w8Qdpe	4- 1	41SS- S	416424	41744S	41- J67	SRu-	Qt I
9 w8Qdpe	44 1	6uJ7- 7J	01uJ7- 2	6JJ7027	0S26u02	2R1-	Qt I
9 wlr C.	12 1	- 10SJ1-	- 17S2S-	- 167076	- 1622JS	SR 4	Qt I
9 wlr C.	12 2	- 07JJ	- 0J41	- 0J7u	- 0u- -	SR74	Qt I
9 G8Clq p	- 7 1	2- - 2uSS2	26J717- 2	2J226241	267S1J27	11R22	Qt I
9 G8Clq p	- 7 2	21uSS0	210S24	22414u	21J026	1R06	Qt I
9 GlCe dpe	72 2	2712J	2716J	24S60	240uu	2R72	Qt I
9 Cr w8	7J 2	1210J	12SJ2	116J7	11Juu	2R17	Qt I
9 Ct t pI	6- 2	41470	4102u	4S661	412u2	1R 4	Qt I
TEl t ICl dpe	176 1	6S- 0S	6164-	61Su2	61S- 2	1RS4	Qt I
TEl t ICl dpe	176 2	27274	24uSS	240- -	24J2J	1R14	Qt I
Ulr dpe	164 1	42S06	42- 26	42106	421J-	SR S	Qt I
Ulr dpe	164 2	16640	160- 0	160- 0	160S0	SR 1	Qt I
HwnC8q dpe	16S 1	7S- - 0	7S04u	7S740	7S744	SR41	Qt I
HwnC8q dpe	16S 2	2- 067	2- Ju7	2- 7S4	2- 071	1RS1	Qt I
h C8e dpe	167 1	JJ0u4- 1	1S1722SS	1S2SS67u	1S11S4- S	1R16	Qt I
h C8e dpe	167 2	44S4J4-	4- 2740u	4- 4- J7S	4- 7u124	SR37	Qt I
& ndpe	117 1	0- - S- 2u	074JJ- J	0- - 7- u1	04S7216	1R6J	Qt I
& ndpe	117 2	JJ1- u2	Ju- 4JS	J00- u6	Ju4Su6	SR01	Qt I
&C.	74 2	11SJ61-	11S0- 24	11SSu- S	11S7J22	SR41	Qt I
&C.	76 2	2140727S	2171J172	21410S70	2140S4u6	SR24	Qt I
&C.	70 2	7Suu04	7S426S	7S70- 6	7S62JS	SR40	Qt I
KIEt iC.	u- 1	- 62	- 27	- 24	- - 0	6R7-	Qt I
Lpwn	2S6 1	1701J2	17Ju4u	176J12	170Ju4	1RS-	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S7	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMt8p:mwe p:a	1- 2dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	126702	12J1J7	12u6u-	12u17S	1R8J	CI I
Lpwn	2Su 1	61- J6S	6222uS	61uS76	61uSJJ	SR60	CI I
LqiGdpe	6 1	27u4461	27J2717	26J62J0	2624424	2R u	CI I
y wg. pl dpe	24 2	uuSu62	u6JS14	u7662J	u6uu- 7	1R J	CI I
y w. gw. pl p	77 2	47- 60S	472SJJ	47274u	472002	SR1u	CI I
y C8Er np. be	J4 1	16120	1641u	167J4	16- uS	1R44	CI I
y C8Er np. be	J7 1	7J6S	6- 00	70u7	6S4S	7R8-	CI I
y C8Er np. be	J6 1	u444	JS0S	u00S	u061	- R70	CI I
y C8Er np. be	J0 1	- 060	- 006	- 771	- 6Ju	- R47	CI I
y C8Er np. be	Ju 1	Ju2S	JJ- 0	J674	JuS4	1R47	CI I
mpOnEe dpe	17S 1	111J70	111J6-	11S106	111- 66	SR12	CI I
mpOnEe dpe	17S 2	- - 70J	- 4204	- - - 2u	- - 020	1R47	CI I
mqCkp8	6S 2	67S7	676u	621u	64- S	2R1S	CI I
NGCI t GCIbI	- 1 2	16- -	16- -	1727	17J0	- R12	CI I
NCiwI I dpe	- J 2	107S4S	101uJ2	16JuSS	102244	1R7-	CI I
F GCndpe	1S- 1	0S6- JS7	04666JS	0- - Ju11	02JS1- 7	2R12	CI I
F GCndpe	1S- 2	- 4S1S07	- - u70Su	- 202S20	- - 72J- 0	2R1S	CI I
DOw. ndpe	47 1	4011S0-	4u62J01	4u0- - 70	4u17uSS	1R1J	CI I
DOw. ndpe	47 2	17S7SS	14JuS2	146u46	14JS4J	1R S	CI I
Dp8p. dpe	u2 1	- -	44	74	4-	24R7-	CI I
Dp8p. dpe	00 2	14-	1SS	110	12S	1uR22	CI I
Dp8p. dpe	0u 2	u2	66	u4	00	12R06	CI I
Dq8qC.	2u 1	01JJ4S1	047002S	04- 2064	0- 6- 2J7	1R14	CI I
Dq8vpI	1S0 1	1127	1SSS	1110	1Su1	6R40	CI I
Dq8vpI	1SJ 1	11SS	u42	J7u	J60	1- R u	CI I
DOndpe	2- 2	7- 102	720- 0	7- Su1	72JJ0	SR4-	CI I
DiIC. idpe	u6 1	u1120	0u42S	0JS4J	0J7- 2	1R0u	CI I
DiIC. idpe	uu 1	6u12- J	6J041u	60064S	6u74- -	1R74	CI I
Db8bI	- 4 1	2J6207	2JJ10u	- S12J-	2JuJ17	SR14	CI I
cpIr dpe	17J 1	1S1604SS	1S4611u2	1S471J- 7	1S- 6S102	1R61	CI I
cpIr dpe	17J 2	42- 1221	4246112	42S4u72	4220- J7	SR4J	CI I
cGw8pe	2S- 1	1410	1- Su	14Su	1- 0u	4R u	CI I
cGw8pe	2S7 1	- 6u4	- 1u4	- 426	- 4- 1	0R2J	CI I
cq	11u 1	27J42	24064	27167	272J1	2R 0	CI I
cqiw. dpe	40 1	- 1u- 1J	- 2004u	- 1J- 0S	- 21u12	1R61	CI I
5 Iw. dpe	2- u 1	4- 010	44746	44SJ4	4411J	SR14	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwr :Dwe t 8p:&T:a	3 - 47S S7	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMd8p:mwe p:a	1- 2d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	2S772	1Ju1S	2S4S7	2S276	1R14	Ol l
Yiiplr dpe	102 1	1224u	11u- 1	124uJ	121uJ	2R0-	Ol l
Yiiplr dpe	102 2	7J1-	7J1u	764S	7u24	2R0-	Ol l
Yiiplr dpe	106 1	J247	uu0u	u611	uJ12	- R70	Ol l
Yiiplr dpe	106 2	17SSJ	1720S	17u17	17- 67	2R3u	Ol l
Yiildpe	uJ 1	1- 40- 412	14144u47	14S6- 44J	1- uJ- JS2	2R34	Ol l
Yiildpe	uJ 2	14u671S	146u41J	1- 6- 24u	14- J- J2	4R32	Ol l
Zq O	66 2	- 060-	- 011J	- 6uJ1	- 022u	1R5u	Ol l
ZdOC. dpe	JS 1	- - 24S	- 4u11	- 20uJ	- - 61-	- R16	Ol l
ZdOC. dpe	J1 1	uS61	uS61	0u00	uSSS	1R 2	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9O. NOL	t ARn&nR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Uo

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23X2	4- : - 4	4442-	44ON1	44146	OU03	ql w
cR&b nRy	121X1	: 0O	: 0O	1O- -	: 3N	4U2	ql w
cSvr RAq	30X2	241	203	2- O	24-	0U0:	ql w
BsSAmb	1- 0X1	41- N1	- : 4ON	- : 063	4O11:	2U3-	ql w
BsSAmb	1- 3X1	6363N	3O120	3O66N	6: 4: O	2U2:	ql w
Br SyPAmb	: X1	4: 4	44O	4N1	432	0U6	ql w
BAb m&a	2O. X1	6: 41444	6: : - - 16	63NNO. 3	6: O361:	1U04	ql w
BAb m&a	2O. X2	- 230O63	2NN2: O.	- 2- O. 32	- 12: 64:	6UN6	ql w
BSmb ARr	N1X1	4026	4236	4401	4413	2U1	ql w
Msob Amb	1ONX1	04	- N	21	- N	44U40	ql w
Msob Amb	1O6X1	41O1	- : - 4	4OO.	4O10	2UON	ql w
Msob Amb	111X1	46N	430	04O	4: 0	NUO6	ql w
MsRqAmb	4- X1	3: : 32	N1ON0	N10N2	NONNO	1UO2	ql w
MsRqAmb	44X1	141: 2- 2	1422N4:	141- - - :	141N43-	OU4	ql w
MsSenR	12X1	26- N6: 0	2622210	266O. 26	264O612	OU34	ql w
MsSenR	12X2	- O4: 1	- 1263	- 1O42	- O. - -	1U2:	ql w
MhPnSRr	- 0X1	1122O4: 6	11- 1: 0N4	11- - 1NON	112: O62:	OU04	ql w
MhPnSRr	- 0X2	34- : :	31340	3O4NO	322ON	2U33	ql w
MhSmb Amb	02X2	0330	0: 0N	0N: N	0N33	1U0:	ql w
MnesR&	0: X2	264O	2434	2264	240:	3U6N	ql w
MnI I r S	6- X2	: O0-	: 23O	N3- :	: O21	2U6	ql w
t ywl SnwAmb	106X1	11614	12O06	1223-	11: N1	2UNO	ql w
t ywl SnwAmb	106X2	4: : 4	4: - 1	0O- 1	4: N0	1UO2	ql w
FSeAmb	164X1	NOO-	3: - 6	3: : 4	3: 3N	OU46	ql w
FSeAmb	164X2	- - : O	- 203	- 413	- - 00	2U06	ql w
GsonPARAmb	16OX1	1OOO4	: N2:	: 0- 3	: 3: O	2U41	ql w
GsonPARAmb	16OX2	43- N	4: : N	4324	4N2O	- U2O	ql w
9nPb Amb	160X1	: 66124-	: : 32301	: : 1- 60N	: N4: 213	1U6N	ql w
9nPb Amb	160X2	424336N	- 3O3- O3	41N6- 6N	4O4314N	3U1	ql w
DRoAmb	110X1	311646:	3262- : 0	3- : - 21N	3203- 61	1U1	ql w
DRoAmb	110X2	: 6: 040	N431: 4	: 03: 4O	: 24N: -	3U O	ql w
DSmR	04X2	21N142	221N- N	22O- : 0	22O120	OUN0	ql w
DSmR	06X2	4- 410N2	4- 4104:	4233: O1	4- 2O- 44	OUN0	ql w
DSmR	03X2	1O1- - 1	1O2410	1O12O1	1O164:	OU66	ql w
KSyl &aR	N- X1	2: 2	261	23O	230	0UN3	ql w
Lr so	2O6X1	- 1632	- 23ON	- 12: :	- 1N: -	2U2:	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9 O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O3X1	20: 26	20: : -	2020N	20326	1U0N	ql w
Lr so	2ONX1	12- ONO	126221	122112	12- NO4	1U34	ql w
LA&nAnb	6X1	2026242	200N- 63	20O4- 3-	202: 661	1UO3	ql w
HsgRr wAnb	24X2	16: 306	130O40	134O60	132: 00	1U6-	ql w
HsRgsRr w r	00X2	N: 1- :	N: O. -	NN303	NN: : 6	OU2-	ql w
HnPyeor Rmb	: 4X1	2N: 2	- 263	- 2- 4	- 1- 1	6U6-	ql w
HnPyeor Rmb	: 0X1	14N-	1O42	1242	1206	13U62	ql w
HnPyeor Rmb	: 6X1	1642	1320	100N	1642	0UON	ql w
HnPyeor Rmb	: 3X1	N20	363	630	306	1OUO1	ql w
HnPyeor Rmb	: NX1	2120	1613	1342	1N2N	14U4:	ql w
u r noyb Anb	10OX1	21244	21O03	21- 64	21222	OU3-	ql w
u r noyb Anb	10OX2	663N	66NN	6622	666-	OU04	ql w
u Aqkr P	6OX2	1- N-	1- 1O	1203	1- 13	4UN-	ql w
8 hnwl hnSnw	- 1X2	420	40O	4OO	420	0UNN	ql w
8 n&swwAnb	- : X2	423N:	41- 1N	4- 24O	4244:	2U3	ql w
EhnoAnb	1O- X1	3O. 6- 03	32: N2NN	3- N33- 0	326O3: -	2UO6	ql w
EhnoAnb	1O- X2	- - 0133O	2N44N0-	- 213041	- 1- NOO0	NU3	ql w
pqsRoAnb	40X1	43O6O4:	431O360	464111O	46N0: 30	OUN-	ql w
pqsRoAnb	40X2	143332	123616	144O2:	1- : NO6	3U63	ql w
pr P RAnb	N2X1	O	24	2O	10	N3U00	ql w
pr P RAnb	33X2	13	2-	1-	1N	2NU64	ql w
pr P RAnb	3NX2	23	- 4	2:	- O	12UO2	ql w
pAAqnR	2NX1	1623N6:	161NN: 1	103O. O.	16O0N: O	1U1	ql w
pAr S	1O3X1	- 0O	- 63	- 0N	- 0N	2U-	ql w
pAr S	1O. X1	2: 2	2: 2	263	2N-	0UO	ql w
pnoAnb	2- X2	2436-	20ON:	24N1-	24NNN	OU3O	ql w
p&nR&Anb	N6X1	106O.	10642	10626	10626	OU11	ql w
p&nR&Anb	NNX1	1- 6- N:	1- 0240	1- 403:	1- 04O4	OU6N	ql w
pmPmS	- 4X1	- OO3: 2	- O1- N6	2: : - 21	- OO4: :	OU0	ql w
i r SeAnb	10: X1	: : OO- : :	1O2120- 2	: : : 32N1	1OO- 63- 3	1U0:	ql w
i r SeAnb	10: X2	41N44- 2	- 62- O10	4O0: 0O2	- : 0060O	3U40	ql w
i hsPAnb	2O- X1	4OO	0- -	430	46:	14U24	ql w
i hsPAnb	2O0X1	1O0O	1ON-	: 63	1O- -	0UN2	ql w
i AR	11NX1	02N0	006O	6O1N	0621	6U0:	ql w
i A&sRAnb	43X1	62061	6- 4- -	62O1O	6266N	1U14	ql w
CS&RAnb	2- NX1	N43O	N011	N- N6	N406	OU30	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
VsRsoAmb	01X2	4161	4O64	- : 41	4O00	2U32	ql w
Y&&SeAmb	132X1	2442	23O.	2613	20N:	0U2-	ql w
Y&&SeAmb	132X2	11: 0	1163	122N	11: 6	2U06	ql w
Y&&SeAmb	136X1	2N30	- O0:	23- 4	2NN:	0U64	ql w
Y&&SeAmb	136X2	126: 0	11166	11316	11N0:	6U0-	ql w
Y&&Amb	N: X1	1- ONONO6	1- 4O6230	1- 262- NO	1- 24: N2O	1U2-	ql w
Y&&Amb	N: X2	1- O01: 6	1143O60	12NO2: 2	12441N4	6UN-	ql w
ZARq	66X2	3042	344:	3- 42	3444	1U4	ql w
ZASqnRAmb	: OX1	6N44	32- 0	3233	311:	- U6	ql w
ZASqnRAmb	: 1X1	1- 30	100O	140N	1461	0U:	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t N:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t N:&T:a	y h SMsSD	T dbiqC. :M CICI:a	1
TI ip:A:cqe p:dCobdpn:a	2S2- S0 12:1Ja2sa11	TI il MdN:mI e p:a	1- 4dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	22Ss- S	221JSs	221JS4	221740	SR2s	CI P
d. iqe C. E	121 1	1146sS	117- 0s	11J- - 6	116464	2R16	CI P
dIPp. qO	07 2	2- 66	2- - 2	2- 2S	2- 4S	1RS2	CI P
BI dpe	1- 7 1	0SS41J	0S2- S4	0- 20- J	011s21	2R77	CI P
BI dpe	1- 0 1	126S6J-	1241J74	12J7s22	1266176	2R16	CI P
BpIENdpe	J 1	10J1S	1070-	1s1- -	10s02	1R7s	CI P
BqPe biG	2SJ 1	6s14- 46	070J7- 0	70627- -	601ssS7	1- R7s	CI P
BqPe biG	2SJ 2	- - 7J107	- - - 6024	- 2S1J70	- 2JJ2s7	2R7s	CI P
BICe q p	s1 1	71SJ	7S71	7S06	7S0J	SR7s	CI P
9 I ne dpe	1Ss 1	1S1-	11Ss	1127	1Ss2	7R61	CI P
9 I ne dpe	1S6 1	741S	7J1s	40S1	7- 4-	11R44	CI P
9 I ne dpe	111 1	14s16	1402s	174s-	17SSJ	2R07	CI P
9 I NDdpe	4- 1	4S6107	- J06s2	414JJJ	4S62s7	2R1-	CI P
9 I NDdpe	44 1	6JsSs1J	67J- - S2	0SS2ssJ	6s7JSS-	- R6	CI P
9 I Ir C.	12 1	2000JJ4	2s0ss11	2ss- - 10	2s460S0	2RSJ	CI P
9 I Ir C.	12 2	- 4S70	- 4766	- - 064	- 412J	1R1J	CI P
9 GNCIq p	- 7 1	2S7- 4- 72	272SJ070	2s076710	24s- - 742	16R61	CI P
9 GNCIq p	- 7 2	222- 2J	2277S2	2- - sS6	220212	2R61	CI P
9 GICe dpe	72 2	J2- 46	J1J60	J- 22s	J2714	SR0S	CI P
9 CrI N	7J 2	- - 72s4	- - 6Sss	- - - J7s	- - 711S	SR 2	CI P
9 Ct pI	6- 2	1746S2	17- 61-	174J26	174- sS	SR44	CI P
TEPtICPdpe	176 1	700- 4	7660J	7J2S0	70s0-	2R1J	CI P
TEPtICPdpe	176 2	2- - J0	2- S7-	22J46	2- 1- 2	1RS2	CI P
UIr dpe	164 1	4SS7-	- 001-	- JJ0s	- J24s	- R J	CI P
UIr dpe	164 2	176s-	1742J	17sS6	176- J	1R2-	CI P
HI nCNqdpe	16S 1	401J-	47J02	7S2- 0	40sS1	4R6S	CI P
HI nCNqdpe	16S 2	22- 6J	21Js2	2100s	22S4-	1R 6	CI P
h CNe dpe	167 1	J6S2- - 1	1SJJ6666	s200164	J627- s0	14R1-	CI P
h CNe dpe	167 2	4- - 4S60	4227474	41- 6400	42- 1JJJ	2R 4	CI P
& ndpe	117 1	0SJJ04S	0s- - J02	7JSJ671	6J400ss	1- R1s	CI P
& ndpe	117 2	Jss1- S	JJ1607	J- J40S	J0- SJ2	- RSS	CI P
&C.	74 2	1SS7J07	JJJsJ0	JJsSs7	1SS1- 1J	SR41	CI P
&C.	76 2	1J7J1762	1J46- - 6-	1J- s4- 62	1J40J062	SR74	CI P
&C.	70 2	46- SJ0	47s- - 7	47J- s2	46S201	SR74	CI P
KIEt iC.	s- 1	2s2	- 42	- 4J	- 27	11R20	CI P
LpI n	2S6 1	100SSJ	100717	1s4s42	10J0sJ	2R44	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t Np:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t Np:&T:a	y h SMsSD	TdNiqC. :M CICI:a	1
TI ip:A:cqe p:dCobdqpn:a	2S2- S0 12:1Ja2sa11	TI il MdNp:mI e p:a	1- 4dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	147- 1J	14721s	14JJ0S	146s- 6	1Rs7	CI P
LpI n	2Ss 1	6J- 1S6	6s6417	014sS1	6Js1S0	2R1-	CI P
LqGdpe	6 1	274S472	20720- 1	21J6S44	24J64SJ	11R27	CI P
y I g. pPdpe	24 2	s6S2SS	s7s- 67	s4J041	s761S2	SR67	CI P
y I . gI . pPp	77 2	4J0012	7SS11s	4JJsJJ	4JJ24-	SR20	CI P
y CNEr np. be	J4 1	17ss7	14727	17- 10	17242	4R4s	CI P
y CNEr np. be	J7 1	7SSJ	40S1	4071	4s2S	- R4-	CI P
y CNEr np. be	J6 1	0244	0200	0420	0- 16	1R 4	CI P
y CNEr np. be	J0 1	- 1SS	2s60	2J7S	2J0-	- R1s	CI P
y CNEr np. be	Js 1	0044	00s6	sS- 6	0s77	2RS1	CI P
mpOnEe dpe	17S 1	1S- 7S-	1S167S	1S- J12	1S- S21	1R10	CI P
mpOnEe dpe	17S 2	- 126S	- 1S- J	- S61s	- SJ0-	1RS7	CI P
mqCkpN	6S 2	J7617	J7642	J4J04	J7411	SR4S	CI P
uGCPt GCIbP	- 1 2	1sSS	10SS	10- -	1047	2R12	CI P
uCIl PPdpe	- J 2	164S06	162661	1647s4	16- 004	SR61	CI P
FGCndpe	1S- 1	600S27S	0s17726	7JSJ7SS	6s- 107J	1- R10	CI P
FGCndpe	1S- 2	- - 66S10	- - 7J226	- 2s1- - s	- - - 7720	1R41	CI P
DCI . ndpe	47 1	4614011	7126206	- 0J0140	4712012	14Rs6	CI P
DCI . ndpe	47 2	17S4- 6	14s020	14- 726	14076-	2R44	CI P
DpNp. dpe	s2 1	2220	2107	2226	221S	1R 6	CI P
DpNp. dpe	00 2	140	1sS	1JS	102	1- R10	CI P
DpNp. dpe	0s 2	271	270	2s-	264	6R47	CI P
DqNC.	2s 1	JSsJ4s-	JS0s- 0J	J62S74J	J262sS-	- R 7	CI P
DqNpI	1S0 1	607s-	66Ss-	60- 67	60S1S	1R21	CI P
DqNpI	1SJ 1	6- 4sS	61J67	6- Js2	6- 142	1R36	CI P
DCndpe	2- 2	6470s	674S0	6- S12	64- - 2	1RsJ	CI P
DiIC. idpe	s6 1	062- -	0- 00J	0627S	07421	1RsJ	CI P
DiIC. idpe	ss 1	6620s2	641670	6741S1	672s40	1R6-	CI P
DbNbI	- 4 1	- Ss44-	- S0271	- 1- Ss2	- SJ7J2	1RSS	CI P
cpIr dpe	17J 1	J0sSs16	1112J0JJ	s4Ss771	J00- S77	1- R12	CI P
cpIr dpe	17J 2	42S- s4s	414026S	- J0J- 0-	411S16S	2Rs4	CI P
cGI NNpe	2S- 1	6S442	6SSJJ	6- 017	6141s	- R27	CI P
cGI NNpe	2S7 1	146S11	14- s2J	14J144	146- 2s	1Rs-	CI P
cq	11s 1	11- ss	11S40	1260-	110S-	0R -	CI P
cqI . dpe	40 1	2ss4S-	20J- 07	2J477-	2s0444	2R36	CI P
5II . dpe	2- s 1	4SJ7S	41061	41J- 0	4174J	1R20	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCl:a	wI P8I N
LI r :DI e t Nb:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Nb. i:DI e t Nb:&T:a	y h SMsSD	TdbiqC. :M OCl:a	1
TI ip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja2sa11	TI il MdbN:mI e p:a	1- 4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	174742	174707	1721J-	17- 00S	SRsJ	OI P
YiipIr dpe	102 1	11J- 1	114- S	11022	116J4	2R17	OI P
YiipIr dpe	102 2	7- 2J	72S0	7- 62	72JJ	1R77	OI P
YiipIr dpe	106 1	s72S	s00S	s261	s710	2RJJ	OI P
YiipIr dpe	106 2	17SSJ	14s07	1727J	17S4s	1R S	OI P
YiiIdpe	sJ 1	1- - - JJJ4	171s4ssJ	1SJ02JS6	1- 167J- S	16RS4	OI P
YiiIdpe	sJ 2	142J6S1	14- S427	1- S121J	1- s0Ss2	7R 6	OI P
ZqO	66 2	60J22	6J4J6	6ssJS	6s06J	1R17	OI P
ZdOC. dpe	JS 1	- 662-	- 262-	- 4660	- 46- s	7R0s	OI P
ZdOC. dpe	J1 1	ssJS	0220	0400	0s67	11R4S	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S1	tOwTpmb Or Tusb r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SMN1	&dPmTmC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdPP:usb r:J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
qPmb dCmb	20 2	614420	6S- 6- 4	. 7N0. -	6S. 6S.	1R 2	dDw
qCTb nCE	121 1	4N. 1	40. 7	407-	4NS1	SR70	dDw
qpwr Cd	0. 2	4176	41S-	411N	41- 7	1R21	dDw
Bspmb	1- . 1	4607NS	4NN46S	47S0S2	4N2- N1	2R6S	dDw
Bspmb	1- 0 1	N11. 1S	N. 14- 4	N0- - S7	N4. 41N	- R01	dDw
Br pEPPmb	7 1	2. - 0	260.	201S	2641	- R4.	dDw
Bcwb mTG	2S7 1	NS270N6	0N. 10. 4	. 22. - - S	0S- . 62-	22R 2	dDw
Bcwb mTG	2S7 2	- - 6. 46-	- - 07. . 0	- - 426- 0	- - 62. . 2	SR .	dDw
Bpmb dCr	N1 1	0- 44	0. 74	NS17	06. 2	4R46	dDw
9 sob mb	1SN 1	2S4	227	210	210	. R00	dDw
9 sob mb	1S6 1	46- 4	4. 4-	- 272	41. 6	1NRS4	dDw
9 sob mb	111 1	2610	26. 2	2. . 0	26S7	1RN	dDw
9 sPdmb	4- 1	- 1N. 40	- 24N6S	- - 4. 7N	- 26SS2	2R4N	dDw
9 sPdmb	44 1	. 2N2- NS	. 6606. .	. 046. 4-	. . 6. . 26	4R46	dDw
9 spenC	12 1	6- 1- - 76	6. NN- 1S	66N- 700	6. 2N. 61	2R7.	dDw
9 spenC	12 2	N- . 46	0N776	NS71.	N11. 2	2RN1	dDw
9 GPmpdCr	- . 1	2- S00N6-	200174N2	- S16- SN4	267N6N1S	1- R 4	dDw
9 GPmpdCr	- . 2	22S6S4	222- 07	224461	2224N1	SRN0	dDw
9 Gpmb mb	. 2 2	- N- 2N	- 00N-	- 0272	- 0NS1	1R 0	dDw
9 nesPT	. 7 2	47. N7	4NS41	4600-	4N1- 4	2R7-	dDw
9 nDDr p	6- 2	1N0N. 4	1N002N	1N7114	1NN2- 2	SR41	dDw
&EwDpnwmb	1. 6 1	6N141	0S2. 1	0- - 6S	0S. N4	- R02	dDw
&EwDpnwmb	1. 6 2	274S2	2704-	276- -	27. 7-	SR 7	dDw
Upemb	164 1	. - 6SS	. 6S1S	. 010-	. . . 7.	- R2N	dDw
Upemb	164 2	22N. 6	22- S2	22- 76	22. 1N	1R 2	dDw
HsonRCmb	16S 1	62176	6- 617	644- 2	6- 41.	1R0N	dDw
HsonRCmb	16S 2	- S160	27SS2	2714.	274- N	2R16	dDw
h nPb mb	16. 1	111N226.	1S0761SN	02S11S2	7026472	22R 0	dDw
h nPb mb	16. 2	4274647	4- 0466N	4- SS0SN	4- 2- - 42	1RS-	dDw
tComb	11. 1	N14. 147	0N76- 72	. - 4SNN.	012040.	21R0N	dDw
tComb	11. 2	7N0- N2	7N6NS1	706. 67	7N- . N4	SR62	dDw
tpnC	. 4 2	- 1S7N64	- S. 0N- 7	- S. - NN.	- S0- N6-	1RS2	dDw
tpnC	. 6 2	. 6. 4124-	. 660S4N0	. . 020SN7	. 6- 1274S	SR71	dDw
tpnC	. 0 2	14. 1617	1- 777- 4	14- S. 70	1420- N4	1RN2	dDw
KpEDTnC	N- 1	- - .	- - 7	- 16	- - S	- R6.	dDw
Lr so	2S6 1	4064S1	. S- . . 7	. 12011	470. . 0	- RNS	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S1	tOwTpmb Or TusB r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SMN1	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdPP:usb r:J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S0 1	- 7NN7-	41- 42N	42- 471	4117- 0	- PSS	dDw
Lr so	2SN 1	17S24- -	176. 172	2SS6. 62	17. NS62	2P6N	dDw
LdTGmb	6 1	270N727	2N11221	21S0. 40	26- 2. 66	10P.6	dDw
y sgOr wcmb	24 2	NS. N26	NS- N40	074104	NS12N2	SP0N	dDw
y sOgsOr wr	. . 2	07- - N2	07- 264	0N1N26	0N7471	SPN4	dDw
y nPEeor Cmb	74 1	26006	20N- 0	207- 0	20. 10	2P.4	dDw
y nPEeor Cmb	7. 1	6620	0S1S	01. 2	67- S	- P72	dDw
y nPEeor Cmb	76 1	11470	1S7NS	12214	11. 64	. P6	dDw
y nPEeor Cmb	70 1	4. 26	4. . 7	441N	4. S1	1P6.	dDw
y nPEeor Cmb	7N 1	111NS	11270	11S21	11166	1P24	dDw
u r noEb cmb	1. S 1	11407-	1166. 6	1214. 2	1106- 4	2P72	dDw
u r noEb cmb	1. S 2	- 62N2	- . N. 1	- . 66N	- . 7- 4	SPNN	dDw
u cdkr P	6S 2	24N2N	24777	2. 2S7	2. S12	SP06	dDw
8 GhwDGhpmw	- 1 2	0- 6S	0067	06. 2	0. 74	2P00	dDw
8 nTswwcmb	- 7 2	41S666	41- N77	4S. S2.	4S7N64	1P1S	dDw
F Ghocmb	1S- 1	NS. N- 1-	0607027	. - . 7126	0S- 2- N7	2SP0N	dDw
F Ghocmb	1S- 2	- - 7- 7- 4	- 4S- 0. -	- - . 1- 60	- - N- S1N	SPN2	dDw
I dsCocmb	4. 1	. - 104N.	. 10- 0N4	- 6147- .	40S2S6N	2SPSN	dDw
I dsCocmb	4. 2	1. 2S16	14NN76	14N- S2	1470- N	1P-	dDw
I r PPCmb	N2 1	106	2S2	17S	17S	6P72	dDw
I r PPCmb	00 2	100	12S	110	1- N	24P40	dDw
I r PPCmb	0N 2	0-	N7	11N	7-	24P44	dDw
I dPdnC	2N 1	147. 74NN	1. 27- 7- 7	1. N244. .	1. - . 7274	2PN4	dDw
I dPr p	1S0 1	2772	- 12.	270.	- S- 1	2P01	dDw
I dPr p	1S7 1	2760	- S10	- S42	- SS7	1P20	dDw
I nocmb	2- 2	. 6746	. 677.	. NS10	. 0- 17	1PS.	dDw
I TpnCTcmb	N6 1	27- 2S7	27162.	- S6274	270S4-	2P01	dDw
I TpnCTcmb	NN 1	26. - 04-	20S26N6	2N22SS2	2026144	- P10	dDw
I mPPmp	- 4 1	- - N- 4-	- 2677S	- 2- 474	- 276S7	2P6	dDw
Ar pecmb	1. 7 1	11401- 42	1S04S712	04. 4NS1	7NN7S1N	21P64	dDw
Ar pecmb	1. 7 2	42- 1S. 0	424S20-	4160470	4212742	SP74	dDw
AGsPPcmb	2S- 1	2- 60	24SS	2- . 7	2- 0.	SP7-	dDw
AGsPPcmb	2S. 1	. N6N	. 61N	. . 4-	. 606	- PSS	dDw
AdC	11N 1	70S4	710S	1S7S0	7720	NP76	dDw
AdSCcmb	40 1	70042	1SSN. 4	1S241.	1SS- - 0	2P.0	dDw
5 psCcmb	2- N 1	NSS- 6	0720-	N1411	NS24S	1P.	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S1	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SMN1	&dPnTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdP:u sb r :J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	. 1 2	0S4- 7	60677	6N- 66	6NN- .	2RSN	dDw
YTTr pe omb	102 1	166- 6	16. . 2	10S7.	16061	1R04	dDw
YTTr pe omb	102 2	0741	0041	0717	0N60	1R 7	dDw
YTTr pe omb	106 1	11N02	11N. 6	11N22	11N. S	SR21	dDw
YTTr pe omb	106 2	1020-	16620	10- 60	10SN7	2R 6	dDw
YTTpomb	N7 1	1. . 66N- N	1462- S26	1S4- 7. - S	1- . 4- 1- 1	2SR1.	dDw
YTTpomb	N7 2	14767N6	146024S	144S0NN	146N- - N	1R71	dDw
ZdCd	66 2	N02SS	N4N- 7	N. 001	N. 7- 6	1R N	dDw
ZqpdnComb	7S 1	. N647	6- 261	6. 4NN	62466	. R N	dDw
ZqpdnComb	71 1	1- N- 2	14116	14441	141- S	2R16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 S2	tCl Tpmb Cr T.u wb r :J	Na
5 8r CTl wb D8 :t&:.J	9 y SUa1&	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :u wb r :J	1- 6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	6S4S46	h7aSha	h7h2S0	h771S4	SM0h	dDl
qCTb nCE	121 1	42a4	- 7h7	464-	427h	0M16	dDl
qpl r Ccl	0h 2	4Sh-	41h0	41h-	4121	1M4-	dDl
Bwpcmb	1- h 1	4a4a72	40S6a6	4a112h	40a7S1	1M14	dDl
Bwpcmb	1- 0 1	a4a7a2	ah0271	a400S0	ah1- 20	SM61	dDl
Br pE8mb	7 1	2h42	26- 7	2h60	2ha-	1M1-	dDl
Bdl b mTG	2S7 1	67- 4104	0214- 26	01700h2	011h410	2M21	dDl
Bdl b mTG	2S7 2	- 276117	- - 1h107	- 41200S	- - 41- h6	1M40	dDl
Bpmb cCr	a1 1	0h44	0720	0aS2	00ha	2M12	dDl
5 wob cmb	1Sa 1	227	272	2- a	2h-	1- M12	dDl
5 wob cmb	1S6 1	406a	4- 06	41S7	441a	0M1S	dDl
5 wob cmb	111 1	2460	2476	22- 6	24SS	hM72	dDl
5 w8lcmb	4- 1	- 24h4-	- 2h67a	- 2h- a2	- 2h2Sa	SM1a	dDl
5 w8lcmb	44 1	hhh176S	hh16a04	h4- Sa21	h477aah	1M1-	dDl
5 wpenC	12 1	6- - 4672	6h47461	6621124	6hS10h7	2M27	dDl
5 wpenC	12 2	006hh	00h02	00664	006- S	SM80	dDl
5 G8hpCr	- h 1	2416020S	2072a701	2776hS- h	20- h- 0h7	1SM0h	dDl
5 G8hpCr	- h 2	216h1S	21720h	226a2S	22Sa6a	2M12	dDl
5 Gpmb cmb	h2 2	- 070S	- 00h-	- ah12	- aS0a	1M8-	dDl
5 new8T	h7 2	4002S	40026	467h4	40460	SM74	dDl
5 nDDr p	6- 2	1ah4S7	1a2ah4	1ah101	1a440a	SM00	dDl
&El Dpnl cmb	1h6 1	0S6h4	01SS6	0114a	0S7- 6	SM6	dDl
&El Dpnl cmb	1h6 2	2a604	- S- S1	2a041	272- 7	- M1h	dDl
Fpecmb	164 1	h0266	hh6S7	ha1a6	h0S2S	2M27	dDl
Fpecmb	164 2	22- 46	222Sh	22207	22206	SM1	dDl
Hwon8Cmb	16S 1	6ShaS	6- S47	6- - 6S	62- - S	2M44	dDl
Hwon8Cmb	16S 2	2a07a	272a2	276S7	272- S	1M4S	dDl
y n8b cmb	16h 1	1SS62Sh1	1SSa6- 07	1S2S0606	1S11a0S2	SM00	dDl
y n8b cmb	16h 2	411226S	424h27-	441h- S6	42h062S	- M10	dDl
tCocmb	11h 1	04- h7Sa	02aa2- 0	0- 24602	0- 476S6	1M8h	dDl
tCocmb	11h 2	7h0210	7044hS	7a6aSS	702a22	1M1-	dDl
tpnC	h4 2	- S2h6- 2	- S27- 62	- Sa27hh	- S4h7a-	1M8h	dDl
tpnC	h6 2	h4a16Sa6	hhha6- 22	h47- - S67	hh111a26	SM0h	dDl
tpnC	h0 2	1274S41	1- S1Sh4	12aa74h	12746aS	SM40	dDl
KpEDTnC	a- 1	- - 6	- 64	- 4S	- 40	4M1S	dDl
Lr wo	2S6 1	474140	47077-	477642	470261	SM10	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 S2	tCl Tpmb Cr T.u wb r :J	Na
5 8r CTl wb D8 :t&:.J	9 y SUa1&	&c8mTcnC:UwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:17J-4JSa	&wTwUc8 :u wb r :J	1- 6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	411266	4246a7	41262-	41617-	1M0a	dDl
Lr wo	2Sa 1	17424ah	176S662	17h2h0S	17h17S6	SM40	dDl
LcTGcmb	6 1	26- 1a0S	204474a	26h2h2a	2606447	2M2h	dDl
9 wgCr l cmb	24 2	076h62	077S6-	07S271	07h- Sh	SM10	dDl
9 wCgwCr l r	hh 2	0a- 7S6	0a- 026	00h266	0aS766	SM0-	dDl
9 n8Eeor Cmb	74 1	2647-	266ah	20S74	260h0	1M1h	dDl
9 n8Eeor Cmb	7h 1	h006	61- h	621S	6S4S	- M44	dDl
9 n8Eeor Cmb	76 1	1Sh07	1S1a0	1S46-	1S41S	1M7-	dDl
9 n8Eeor Cmb	70 1	- a10	- hS7	- 0- 4	- 6a0	4M-	dDl
9 n8Eeor Cmb	7a 1	7701	7a4h	70- 0	7ah1	1M17	dDl
u r noEb cmb	1hS 1	110- S7	11760h	11a6a1	11ahhh	1M8S	dDl
u r noEb cmb	1hS 2	- 4712	- 4716	- 4722	- 4710	SM81	dDl
u cdkr 8	6S 2	2h27-	24h21	244ha	240h0	1M4a	dDl
NGhl DGhpml	- 1 2	0ha6	0hS2	0017	06S2	1M44	dDl
NnTwl l cmb	- 7 2	4Sa2S0	4S1a0S	4S- - 10	4S4464	SM42	dDl
. Ghocmb	1S- 1	0- 102a6	02aaa2-	0220- 61	0200a2-	SM0-	dDl
. Ghocmb	1S- 2	- - 2a- - -	- - S14- 2	- 44SSS1	- - h6ha7	2M17	dDl
l dwCocmb	4h 1	404a760	4ah7- 22	4aS744-	4aSh711	1M1h	dDl
l dwCocmb	4h 2	14h- 61	14676-	1hS- 47	140hha	1M0-	dDl
l r 8 Ccmb	a2 1	144	162	146	1h1	6M0h	dDl
l r 8 Ccmb	00 2	1- S	110	1- -	120	6M76	dDl
l r 8 Ccmb	0a 2	114	11-	146	124	1hM1S	dDl
l c8dnC	2a 1	1h2- 01aa	1hh0- hha	1h2h74h0	1h- h60- 4	1M42	dDl
l c8vr p	1S0 1	- h60	- 4h1	- 1- 4	- - a4	6M0-	dDl
l c8vr p	1S7 1	- S0h	- 260	2760	- 1S-	4M7S	dDl
l nocmb	2- 2	h- 604	h- 7SS	h42- h	h- 7- 6	SM12	dDl
l TpnCTcmb	a6 1	2724S1	2770h-	277411	2701aa	1M4S	dDl
l TpnCTcmb	aa 1	20- - 221	20h6170	20hS7Sh	204600h	SM44	dDl
l m8mp	- 4 1	- 1S- - 0	- S0- - h	- S- 0a4	- S01h2	1M80	dDl
Ar pecmb	1h7 1	1S12- aa2	1S2a6740	1S2h716a	1S22- - - 2	SM4h	dDl
Ar pecmb	1h7 2	412a- h4	42S77S0	421a1- 0	41ah466	1M17	dDl
AGw8cmb	2S- 1	22SS	21- 4	2272	22S7	- M0S	dDl
AGw8cmb	2Sh 1	h16a	h1- h	4a6a	hSh0	- M2h	dDl
AcC	11a 1	a72a	7112	747h	710a	- M1h	dDl
AcTwCcmb	40 1	7a0- 2	7a0- 7	7ahaa	7a6a6	SM87	dDl
RpwCcmb	2- a 1	007S6	077S1	a1SSa	076Sh	1M70	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUa1&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :u wb r :J	1-6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	h1 2	674S4	6a4- -	6aaSa	6aaa1	SM01	dDI
YTTr peomb	102 1	16420	16-74	160a6	16h-6	1M1	dDI
YTTr peomb	102 2	00ha	0671	0h24	06ha	1M10	dDI
YTTr peomb	106 1	11422	11722	112a7	11h44	2M47	dDI
YTTr peomb	106 2	16a61	16422	104S6	16a76	2M72	dDI
YTTpomb	a7 1	14S7-074	14102a01	1-7h-102	14S0-207	SM07	dDI
YTTpomb	a7 2	141-h4a	141a146	1467266	14- - 6h-	2M16	dDI
ZdCd	66 2	a62h4	a46a1	ah10a	ah-01	SM74	dDI
ZqpdnComb	7S 1	61-S2	62a42	6-244	6246-	1M04	dDI
ZqpdnComb	71 1	14S-2	14247	1-46h	1-716	2M71	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPlIer Fpiabolrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFaloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNabolrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqP
dNer dFqer	23X2	12J-m1	124Jmm	12-2O2	124-0O	OJm0	otP
dFiqEFy	121X1	m--	m13	0Jm	m60	m001	otP
dIPpFqp	3JX2	mO6	mJ4	m14	m2J	-J12	otP
BIlqer	1-JX1	03631	0m1O6	03J0-	0330O	OJ2m	otP
BIlqer	1-3X1	13JO-J	13J333	1320OO	134J31	OJm6	otP
BplyNqer	0X1	J26	J43	J06	JJ3	6J4J	otP
BqPreih	2O0X1	36JJ104	3O3mJ-O	6m-m60m	310OmO3	JJm4	otP
BqPreih	2O0X2	-O02441	-OJ42O4	-OJ0m03	-O6mm43	OJ63	otP
BIErdFp	m1X1	4mO1	43J1	40-4	4m20	1J06	otP
MIRrqer	1OmX1	Jm	JO	63	Jm	14J20	otP
MIRrqer	1O6X1	4102	-0OO	-6J0	-02O	6Jm1	otP
MIRrqer	111X1	mJm	m64	m44	mJJ	1J10	otP
MINvqer	4-X1	64m00	6Jm-O	66-m1	6J3O-	1J14	otP
MINvqer	44X1	1Om-333	1O02246	11OJJ46	1O0-mJ6	1JOO	otP
MIISEF	12X1	-131004	-22-0-2	-1mOmmJ	-102231	OJm3	otP
MIISEF	12X2	-m-O1	-m66m	-30m-	-m-13	OJm0	otP
MhNEldFp	-JX1	11-m13J6	114JOJ3-	114224-O	1141m2J-	OJ-O	otP
MhNEldFp	-JX2	3-J62	34O6J	3-11m	3-Jm2	OJ64	otP
MhIErqer	J2X2	m36-	m606	mJ10	m6J0	1J4J	otP
MESINN	J0X2	0034	1OOJO	060O	00OJ	1J02	otP
MEttpl	6-X2	-03O0	-0-21	-042J	-04mJ	OJJ1	otP
TyPtIEPqer	1J6X1	14J63	1-024	14---	1423J	2J2m	otP
TyPtIEPqer	1J6X2	611m	JmJJ	J0Om	J06O	2J-4	otP
ISqer	164X1	114OJ	113m1	11432	11JJ-	1J3-	otP
ISqer	164X2	4J11	4621	4m3m	463O	4J0-	otP
GIRENqFqer	16OX1	122m0	12JO6	126-1	12436	1J-0	otP
GIRENqFqer	16OX2	62mm	Jm0J	6OmJ	6Om0	-J2-	otP
9ENqer	16JX1	1O600J02	006O231	0m-3-46	1O16J3-6	4JJ0	otP
9ENqer	16JX2	-021066	-0O266-	4O3060J	-06m1Om	2J4J	otP
&FRqer	11JX1	mOm2666	3-J4J6-	3-0JO46	361O3Jm	JJ-m	otP
&FRqer	11JX2	mm4343	m303O1	01J1J0	m0-2O2	2J1J	otP
&EF	J4X2	Jm0O62	J0O134	Jm-4m0	Jm3J3J	OJ61	otP
&EF	J6X2	1146mJ2O	11JOO0-2	11410063	1146-14O	OJ-6	otP
&EF	J3X2	23-1O1	26m034	26m140	23OO34	OJ0m	otP
KlytiEF	m-X1	260	2J0	20O	232	JJm6	otP
LplR	2O6X1	0m2O4	1O1JO6	1O1-1J	1OO-41	1JmJ	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqP
LplR	2O3X1	m-O4m	m2330	m46J-	m-40-	1U21	otP
LplR	2OmX1	-0124m	-020O-	-0m06m	-04-3-	1UO-	otP
Lqihqer	6X1	23O6261	2J41-01	2JJmJ--	26O2O62	-U4m	otP
HlgFpPqer	24X2	1642O-	164mJm	1Jm4O6	1624m0	2U10	otP
HlFglFpPp	JJX2	16-1J2	16J432	1640J1	164J2J	OU34	otP
HENYSRpFer	04X1	J136	J-0-	J-O1	J20O	2UO6	otP
HENYSRpFer	0JX1	11Om	162J	1-Om	1-43	10UJ4	otP
HENYSRpFer	06X1	212J	242J	2-OO	22m4	6U6O	otP
HENYSRpFer	03X1	mm-	mJO	m2J	mJ-	-U4-	otP
HENYSRpFer	0mX1	1002	2263	2202	21m4	3U62	otP
bpERyrqer	1JOX1	2-m42	24O40	24O22	2-031	OU43	otP
bpERyrqer	1JOX2	3202	3-20	31mJ	3260	1UO2	otP
bqpkpN	6OX2	JO2m	J-41	J22m	J100	-UOJ	otP
uhEPthElePP	-1X2	13Jm	16Om	142J	1J03	1OU4J	otP
uEilPPqer	-0X2	0OO2m	013O3	0O164	0OO--	OUmJ	otP
7hERqer	1O-X1	3333J12	3-2mJ-2	3-4mJJ3	34m4m63	-UJ0	otP
7hERqer	1O-X2	20m4246	-O6OJO1	-1-32JJ	-O6O663	2UJO	otP
DolFRqer	4JX1	JO13OJm	43mJ3-m	46043J1	4m-2J16	-U44	otP
DolFRqer	4JX2	1-4024	1-121m	1-6mm2	1-4-41	2U14	otP
DpNpFqer	m2X1	4O	4J	m	-1	66UO4	otP
DpNpFqer	33X2	--	2O	6O	-m	J-U02	otP
DpNpFqer	3mX2	-m	-J	2J	--	2OUm4	otP
DqNpEF	2mX1	-1mJ113	-2262J0	--1203m	-2414J1	2UO1	otP
DqNpl	1O3X1	363	m--	3OO	363	mU3O	otP
DqNpl	1O0X1	3Jm	62J	mOm	3-1	12U03	otP
DERqer	2-X2	24O2O	2-mO-	24O30	2-063	OU61	otP
DilEFiqer	m6X1	Jm264	6OO-0	J0mmm	J0-03	1U66	otP
DilEFiqer	mmX1	JO4m1J	J101O1	JOO006	J11-O4	1U41	otP
DeNel	-4X1	2J026J	261404	26423m	261630	OU06	otP
cplSqer	1J0X1	11226O64	1O12-211	0011-3O	1O42O21J	6U33	otP
cplSqer	1J0X2	-34304J	-3O-610	-m34J31	-33J-3m	2UJJ	otP
chlNqer	2O-X1	413	J2J	62J	J22	10UOJ	otP
chlNqer	2OJX1	143J	1J2J	1JOO	1JOO	1U63	otP
cqF	11mX1	2m42	-1OO	2J02	2m4J	mU04	otP
cqlFqer	43X1	102mm	2OJ1J	2O-6J	2OOJ6	-UJ4	otP
CIlFqer	2-mX1	1J1J0	1J433	1Jm44	1J40-	2U21	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiabolrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFaloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNabolrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqqP
VlFlRqer	J1X2	14223	144m4	14J41	14413	1U16	otP
YiiplSqer	132X1	-Jm4	-O13	-202	-20m	m16O	otP
YiiplSqer	132X2	16--	16-0	13--	1660	-U3	otP
YiiplSqer	136X1	-636	-426	-436	-J26	-U3J	otP
YiiplSqer	136X2	11411	114OO	12-J6	11322	4U6m	otP
Yiilqer	m0X1	142O34O0	1--m000-	1-1m3-16	1-J040O6	-U03	otP
Yiilqer	m0X2	11m22m1	116m0O1	12202J3	110-4mO	2U66	otP
ZqFo	66X2	13m11	1306J	13-J1	133O0	1UmO	otP
ZqloEFqer	0OX1	12J64	1263-	12m0m	12312	1U4	otP
ZqloEFqer	01X1	2Jm4	262J	23-4	264m	2U0-	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S-	tOwTpmb Or TusB r:J	8 N
5 PR CTI sb DPP:t&:J	9 y SUN1I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r:J	1- Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCmb	20 2	6- NNh-	62- 4- 4	6- - NSN	6- 2S- 2	1M24	dDw
qCTb nCE	121 1	11S76N	11hh12	116N7S	1144h6	2M01	dDw
qpwr Cd	0h 2	h247	h17-	h20S	h2- 0	SM0h	dDw
Bspmb	1- h 1	7NSh04	1S4N- 16	1S- 60- h	1S21N0h	- M1h	dDw
Bspmb	1- 0 1	1N- S260	1720- S4	17444Sh	17SS6h7	- M24	dDw
Br pEPmb	7 1	10- 27	1N0S6	1N- 6-	1N1- -	- M7h	dDw
Bcwb mTG	2S7 1	04h4- h4	h1hhN6N	6- 7764N	6- - 662-	1NM16	dDw
Bcwb mTG	2S7 2	- - 72- N7	- 26620h	- - 0004-	- - 4h467	2M36	dDw
Bpmb dCr	N1 1	66Nh	0220	NS44	0- 17	7M1h	dDw
5 sob mb	1SN 1	11N-	1101	1101	110h	SM61	dDw
5 sob mb	1S6 1	h66N	4Nh1	hS06	h17N	NM12	dDw
5 sob mb	111 1	1620N	102N1	16077	160N6	2M77	dDw
5 sPdmb	4- 1	- 1- 1hS	- 27- - S	- 2- N42	- 221S0	2M1h	dDw
5 sPdmb	44 1	h- 20SNh	hh22070	h47116h	h440S1h	1M7-	dDw
5 spenC	12 1	h422N- 7	h06h422	h0NS- N1	h6h6214	- M1N	dDw
5 spenC	12 2	672- N	67- 14	0SS2h	67h26	SM02	dDw
5 GPmpdCr	- h 1	1760hS6S	2hS4S760	206NS2N-	241- 21S-	16M7S	dDw
5 GPmpdCr	- h 2	2S6h6h	2S72S-	21h1S4	21S271	2M3N	dDw
5 Gpmb mb	h2 2	1S64N-	1S6211	1S47h2	1ShNN2	SM00	dDw
5 nesPT	h7 2	- 6hNh4	- 6210-	- 60020	- 6h2h1	SM00	dDw
5 nDDr p	6- 2	274- 6N	27- 7SN	27S4SS	272N72	SM04	dDw
&EwDpnwmb	1h6 1	66N4-	01h- 4	67706	674h1	- M44	dDw
&EwDpnwmb	1h6 2	27172	2N021	2N14-	2N6Nh	1MM-	dDw
Fpemb	164 1	h42N0	h66NN	hhN1N	hhh7N	2M17	dDw
Fpemb	164 2	22172	2217h	2171h	221S1	SM0-	dDw
HsonPCmb	16S 1	6S00-	6h11N	6- S- -	62704	- M4h	dDw
HsonPCmb	16S 2	2N7- 1	2N0Nh	2N06N	2NN2N	SM11	dDw
y nPb mb	16h 1	1Sh- h104	0460171	7S- 4S4N	7S121- N	10M32	dDw
y nPb mb	16h 2	4- h126h	4107S10	42h1241	426ShS0	2M3-	dDw
tComb	11h 1	007- - N0	h- - - 146	66N2Nh2	66S- 12N	1NM06	dDw
tComb	11h 2	7h0h- N	741211	76- 10-	7h- 704	1M2S	dDw
tpnC	h4 2	- 12024N	277446h	- Sh60S-	- Sh7402	2M10	dDw
tpnC	h6 2	h4N270S-	h4421466	hh10- 114	h4NSNS74	SM07	dDw
tpnC	h0 2	1422614	14117N1	14SNS44	141421-	SM1-	dDw
KpEDTnC	N- 1	202	- - 0	27h	- S2	1SM74	dDw
Lr so	2S6 1	4N4NN6	h1- 210	h100- S	hSh20N	- M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DP:t&:J	3 - 447 S-	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DP:t&:J	9 y SUN1I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r:J	1- Nq. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S0 1	4S646-	42N464	42706N	421h6h	- M11	dDw
Lr so	2SN 1	17SNN04	2S- hS6h	2SS10hN	17N1N77	- M1S	dDw
LdTGmb	6 1	2612N61	2S12N22	2hS17h-	2- 0hN07	1- M14	dDw
9 sgOr wcmb	24 2	0774SS	0N0S2h	NS21hS	076171	1N31	dDw
9 sOgsOr wr	hh 2	N01NN6	Nh7N- 4	N61hN-	N644- 4	SN0h	dDw
9 nPEeor Cmb	74 1	24hN7	2h6hN	2h741	2h- 76	2NM1	dDw
9 nPEeor Cmb	7h 1	hh06	h76N	hNS1	h0N2	- M1S	dDw
9 nPEeor Cmb	76 1	7N27	1SSh4	7627	7N- 0	2M16	dDw
9 nPEeor Cmb	70 1	- 4- 4	- 6S1	- 0h7	- h7N	4M12	dDw
9 nPEeor Cmb	7N 1	NN2S	7N62	7h62	741h	hN0S	dDw
u r noEb cmb	1hS 1	11- - NN	121S70	11NS41	110hS7	- M1S	dDw
u r noEb cmb	1hS 2	- h0hN	- 40- h	- 402N	- hS04	1N07	dDw
u cdkr P	6S 2	11hh- 1	11- 707	11h121	114N00	SN0S	dDw
8 GhwDGhpmw	- 1 2	02S2	0hS2	6767	0224	- N0S	dDw
8 nTswwcmb	- 7 2	411h46	4S7N4-	41- 014	4110S1	SM40	dDw
. Ghocmb	1S- 1	0h214S7	h- NhS- 7	6h14N1h	640- 0hh	16M11	dDw
. Ghocmb	1S- 2	- 21S- 27	- 2224h7	- 2Nh1- 0	- 2- 7- SN	1N24	dDw
I dsCocmb	4h 1	hS- Nh- 1	- hN7hS4	4264- S0	4270440	16MN0	dDw
I dsCocmb	4h 2	14N276	1461- 6	1462h4	146N7h	SMM-	dDw
I r PCcmb	N2 1	24S7	2446	24S4	242S	SM76	dDw
I r PCcmb	00 2	2hS	160	1h0	171	26MM1	dDw
I r PCcmb	0N 2	- 17	- 1N	- 24	- 2S	1N3S	dDw
I dPdnC	2N 1	14117hNh	1h66S4Nh	1h44- 7S7	1hS0466S	hM1-	dDw
I dPr p	1S0 1	64h6N	6NN- 7	60hS0	66702	- N26	dDw
I dPr p	1S7 1	61N7N	66220	6h66h	64h70	- N04	dDw
I nocmb	2- 2	6412h	6hN66	647S-	6476h	1M14	dDw
I TpmCTcmb	N6 1	2N417S	27Nh47	- SS- 14	274- h1	- N3S	dDw
I TpmCTcmb	NN 1	2h7447h	202SS41	206SN4N	267107h	- N22	dDw
I mPmp	- 4 1	- S- 14S	- S- h21	- SSN1N	- S247-	SM4N	dDw
Ar pecmb	1h7 1	1SNh4- 12	0h7h6h4	72SS12-	7216670	10N3N	dDw
Ar pecmb	1h7 2	4171767	41S1S- 6	4S07466	41241h0	1M4h	dDw
AGsPbmb	2S- 1	hN1N2	64S41	6- 741	62Shh	hM41	dDw
AGsPbmb	2Sh 1	144S0-	1hSN46	14N2SN	1400S7	2M1	dDw
AdC	11N 1	11- hh	112Sh	1S076	11117	2N3S	dDw
AdSCcmb	40 1	1SS12N	77- 61	70664	77Sh1	1N20	dDw
RpsCcmb	2- N 1	0N762	Nhh01	N01SN	N- NNS	hM16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S-	tOwTpmb Or TusB r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN1I	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:u sb r :J	1- Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h1 2	2S2010	2SSN0S	17N2- S	2SS6S6	1M12	dDw
YTTr peomb	102 1	161Nh	10- S-	16SS2	16470	4M20	dDw
YTTr peomb	102 2	07- S	0hSN	N1NS	0N0-	4M12	dDw
YTTr peomb	106 1	110- 1	12SS6	12SS6	11714	1M-	dDw
YTTr peomb	106 2	16674	166hS	100S1	10S1h	- M47	dDw
YTTpomb	N7 1	140hS206	1S- N- N4S	12NSS- S1	12644NS6	10MS	dDw
YTTpomb	N7 2	1421- hN	141047h	1- - S74-	1- N77- 2	- M0N	dDw
ZdCd	66 2	11N400	11NhS0	11716S	11N01h	SM12	dDw
ZqpdnComb	7S 1	h7- 2h	61200	61SS1	6Sh- 4	1M0h	dDw
ZqpdnComb	71 1	12N7S	1- hh0	14177	1- h47	4MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MPA R&psb I Pr:Dr :J	H9 O. N1L	t ARn&nR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23X2	110462	110342	110 O1	110 6N	OU1-	ql w
cR&b nRy	121X1	NN-	NN-	3- -	N- -	1OU0	ql w
cSvr RAq	3 X2	3N1	NON	300	306	1U3-	ql w
BsSAmb	1- X1	0 630	00ON0	0 - O-	0660O	2U16	ql w
BsSAmb	1- 3X1	16N- 6	160210	163N-4	16N43O	OU41	ql w
Br SyPAmb	0X1	10	40	400	22	4UN2	ql w
BAb m&a	2O0X1	644 3- 4	602ON64	3O21163	630 022	4U 2	ql w
BAb m&a	2O0X2	- 200N44	- 2- 3 0	- 234 1	- 23O6 1	OU06	ql w
BSmb ARr	N1X1	43- 4	4N0-	401N	4N4N	2UD	ql w
Msob Amb	1ONX1	02	31	N	34	22UNN	ql w
Msob Amb	1O6X1	- N4	- 3N4	- 6- 4	- 663	2UN4	ql w
Msob Amb	111X1	3N6	366	33-	33	1U20	ql w
MsRqAmb	4- X1	64O11	6- 0N4	642 3	64ON4	OU2-	ql w
MsRqAmb	44X1	1O6324O	1O3N11N	1ON2 O0	1O3 0 6	OU3-	ql w
MsSenR	12X1	20N6064	20 N242	- O244- 0	20N0NN2	1U11	ql w
MsSenR	12X2	- 6- 46	- O36	- NN6	- 360	1UNO	ql w
MhPnSRr	- X1	1O 1- 6-	1ON- 442	1O60623O	1O6N13 N	1U 1	ql w
MhPnSRr	- X2	31263	604 0	60402	3OO3-	1U4N	ql w
MhSmb Amb	2X2	N620	N 00	N- - 6	N 21	1UN0	ql w
MnesR&	0X2	06N3	0 - O	0 13	0 3N	OU00	ql w
MnI I r S	6- X2	- 0 32	- N412	- 3N- 1	- N6O	2U- O	ql w
t ywl SnwAmb	1 6X1	1- 00	141- -	1- 0N-	1- 0O	1U0N	ql w
t ywl SnwAmb	1 6X2	6OO	0O1	N61	022	1U2	ql w
FSeAmb	164X1	11O	1121-	112O	111 N	OUNO	ql w
FSeAmb	164X2	4423	4 O3	4463	4463	OU0O	ql w
GsonPARAmb	16OX1	126- 1	116O	1264N	1220	4UN6	ql w
GsonPARAmb	16OX2	6ONN	6O3N	6O4	6O3O	OU- 3	ql w
9nPb Amb	16 X1	02- 123N	0061O4N	034- 022	064 416	- UN0	ql w
9nPb Amb	16 X2	4224N26	41624N	42 6063	42143 0	1U14	ql w
DRoAmb	11 X1	66 2143	3O066N2	32 - 304	3OOON34	4U46	ql w
DRoAmb	11 X2	0 26N3	0 N103	0 - O- O	0 46- N	OU- 2	ql w
DSmR	4X2	6 13	63644	34N- 3	60- - 2	OUN6	ql w
DSmR	6X2	11- O O46	1111O632	1O0 N430	111243- -	1U 6	ql w
DSmR	3X2	2634 4	26416N	2616- 4	264410	1U1O	ql w
KSyl &aR	N- X1	2N3	2N0	204	20O	1U14	ql w
Lr so	2O6X1	0324O	00- 30	00 NO	0N3- -	1U- 1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MPAR&psb I Pr:Dr :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O3X1	3041	N- 1- 2	N- 0	N2163	2U04	ql w
Lr so	2ONX1	- NO2	- N0O10	- 0O 26	- N66OO	1U4-	ql w
LA&nAmb	6X1	2- - O663	2 4132	2 - 103O	246N121	4UN-	ql w
HsgRr wAmb	24X2	1 N1N6	161300	1 6 04	1 NN6O	1U6N	ql w
HsRgsRr wr	X2	1 3160	1 0304	1 3- N	1 N1O3	OU0-	ql w
HnPyeor Rmb	04X1	44-	- O0	4NN4	212	U6O	ql w
HnPyeor Rmb	0 X1	1- N-	12ON	1202	120	6U36	ql w
HnPyeor Rmb	06X1	22N4	2163	21 O	22OO	- U O	ql w
HnPyeor Rmb	03X1	3 O	3N-	663	3- -	NU2O	ql w
HnPyeor Rmb	0NX1	2OOO	1013	2ON4	2OOO	4U13	ql w
ur noyb Amb	1 OX1	220NO	2- N62	2- N61	2- 6N	2U16	ql w
ur noyb Amb	1 OX2	3OO	3110	322	3116	1U	ql w
uAqkr P	6OX2	O0N	O14	4364	40 0	- U O	ql w
8hnwl hnSnw	- 1X2	1 42	1642	16OO	1 0	- U1	ql w
8n&swwAmb	- 0X2	01O3O	NN 46	NN- 2N	N0- 1	1U31	ql w
EhnoAmb	1O- X1	6633- NO	3ON2N1N	31 1 21	603O 3-	- U6N	ql w
EhnoAmb	1O- X2	- - - 41O0	- - 123- N	- - 4- 011	- - - O2 -	OU4N	ql w
pqsRoAmb	4 X1	4- 3OOO2	46- 630	46- 0333	4 4N4N6	- U4O	ql w
pqsRoAmb	4 X2	14 406	14- 0 O	14- 6O-	144- O	OU3O	ql w
pr PRAmb	N2X1	X- 4	- 1	X4	X2	X1 NUNO	ql w
pr PRAmb	33X2	13	4-	23	20	46U62	ql w
pr PRAmb	3NX2	- N	20	43	- N	2- U6N	ql w
pAAqnR	2NX1	- 16 064	- 10 662	- 166022	- 1361N-	OU -	ql w
pAPr S	1O3X1	642	N- -	363	343	1- UO2	ql w
pAPr S	1O0X1	642	342	32	3O-	3U62	ql w
pnoAmb	2- X2	2- NN3	22004	2- NN3	2- N0	2U10	ql w
pSSnR&Amb	N6X1	N334	0410	6O2- O	0434	1U2-	ql w
pSSnR&Amb	NNX1	1 16	14- 6O	1 N4O	1 122	OU14	ql w
pmPmS	- 4X1	2 2642	2 13 0	2 - O- 1	2 2433	OU26	ql w
i r SeAmb	1 0X1	041O36N	1OO O21O	1OO2- 220	0N2NO60	- U6N	ql w
i r SeAmb	1 0X2	414O 26	41- ON 4	41- 1210	41- 42OO	OU1-	ql w
i hsPAmb	2O- X1	642	6ON	613	622	2U30	ql w
i hsPAmb	2O X1	1- O	1 42	122	1- 32	11U62	ql w
i AR	11NX1	2063	23 0	2 02	233-	6U3N	ql w
i A&sRAmb	43X1	1N306	10 14	10NO6	10- 32	2U6N	ql w
CSsRAmb	2- NX1	1 44-	1 6-	1 - 0-	1 40O	OUN2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r :J	8 N
MFAR&psb I Pr:Dr :J	H9 O. N1L	t ARr&AR. sq&aSJ	
t s&:T:i Ar :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r :J	1- 0cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
VsRsoAmb	1X2	1- 3 3	1414O	1- 3O	1- N22	2U1O	ql w
Y&&SeAmb	132X1	- - 13	- 6 0	- 2 0	- 412	6U4	ql w
Y&&SeAmb	132X2	160	1632	16 6	1634	1U13	ql w
Y&&SeAmb	136X1	- 213	- 2 O	- 0	- - 42	U64	ql w
Y&&SeAmb	136X2	1210	12 4O	1- - 12	126N2	4U 1	ql w
Y&&SAmb	N0X1	1246- N61	1- 1143N	1- 142 N1	120O3O36	2U0N	ql w
Y&&SAmb	N0X2	1- 432N4	12N6NN-	1206- N	1- 1O13	2U4N	ql w
ZARq	66X2	136 4	131N1	132 4	13- 6-	1U43	ql w
ZASqnRAmb	0OX1	12- 14	121 6	12- O6	122 N	OU3-	ql w
ZASqnRAmb	01X1	2 02	2 63	20O0	26N0	3U0N	ql w

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP usb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	16SS200	16SS4N6	1hh2- S6	1hN4- h6	1M0h	dDw
qCTb nCE	12171	2N2h	2- : 2	26h:	262h	NM-	dDw
qpwr Ccd	0h72	1hhN	1h01	14NS	1h- 0	- M2S	dDw
Bspcmb	1- h71	14S4N4	14S0Sh	141S- S	14S04S	SM2S	dDw
Bspcmb	1- 071	241: 24	2h- 161	24: 2NN	24N124	2M1S	dDw
Br pEPPcmb	: 71	: 4h	: SS	: 6S	: - h	- M4	dDw
Bcwb mTG	2S: 71	6- 1N160	6: - 0hhh	0- 4- 0- 1	6N664N4	0M12	dDw
Bcwb mTG	2S: 72	- 2h6SNh	- 4h4SS0	- 22NS16	- - 120S2	- M02	dDw
Bpmb cCr	N171	4: S:	4N26	4: h1	4N: h	1M1S	dDw
5 sob cmb	1SN71	110	hS	NN	Nh	- : M4h	dDw
5 sob cmb	1S671	- N06	- 6S:	4S10	- N- 4	hM41	dDw
5 sob cmb	11171	NNh	N02	: 2S	N: 2	2M00	dDw
5 sPlcmb	4- 71	2- : S1N	241N: 2	2- NN46	2- : : 1N	SM01	dDw
5 sPlcmb	4471	4S01: : h	424- 62S	4SN26N4	41- 2066	2M-	dDw
5 spenC	1271	440: 2- N	400h2: -	400S44h	4604: : 2	- M0-	dDw
5 spenC	1272	h02: 6	hN0: -	h04N0	h0Nh:	1M41	dDw
5 GPmpcCr	- h71	1: 26: 6N:	244- S- S1	20S21: - N	2- h0- : 06	16M04	dDw
5 GPmpcCr	- h72	2S2S62	2S: SN4	2SNh6S	2S6h6:	1MN:	dDw
5 Gpmb cmb	h272	1102: -	110: 4h	116h: 0	11020N	SM10	dDw
5 nesPT	h: 72	: - 1: :	: - 4S0	: - 64-	: - 416	SM24	dDw
5 nDDr p	6- 72	2- 1h01	2- - - 22	2- 14h2	2- 211h	SM4h	dDw
&EwDpnwcmb	1h671	- 604-	- 64S1	- 020N	- 6NS0	1M2S	dDw
&EwDpnwcmb	1h672	16S: -	1610-	1hN4S	16S- h	1MS:	dDw
Fpecmb	16471	- 16NS	- 1N22	- - 2: 2	- 226h	2M00	dDw
Fpecmb	16472	1- 061	12: N-	12066	1- 10S	- M0	dDw
HsonPCcmb	16S71	- N140	- NNh0	- N- - 1	- N44h	SM16	dDw
HsonPCcmb	16S72	1N- N:	1Nh2S	1N- S6	1N4Sh	SM1N	dDw
KnPb cmb	16h71	: S- 064N	1S2- 0: SS	1S22h: 4h	: N- - N- 1	0MS1	dDw
KnPb cmb	16h72	42: : N: h	4- 612S2	41S- NSS	42h4: 66	- M16	dDw
tCocmb	11h71	64N0SS0	022N- 4N	02NS0h4	6: : N0S-	6M4	dDw
tCocmb	11h72	: 6- 40h	: 6: N14	: 260- 6	: h- - 41	2M44	dDw
tpnC	h472	4421N: 6	4- NN: - 0	4- 1- - 4:	4- 04020	1M20	dDw
tpnC	h672	0: h11- Nh	NS: : 22: -	0N1: 1: NN	0: h6h222	1M06	dDw
tpnC	h072	2S: 14S6	2S6N666	2S1N: - 2	2Sh: 66N	1MNS	dDw
gpEDTnC	N- 71	- SS	- 2:	- 10	- 1h	4M1:	dDw
Lr so	2S671	0N42S	N2612	0: 66h	NS2- 2	2M0N	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP usb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	60- hN	6NShS	6626-	60224	1M4	dDw
Lr so	2SN71	- 1h6: 1	- 1N4h:	- 1424-	- 161- 1	SM6N	dDw
LdTGmb	671	241SNS6	26- 0SN0	26N- 161	2h00S1N	hM06	dDw
9 sk Or wcmb	2472	20S00- 6	20- - 0hh	26446S2	26: h- 64	1M0S	dDw
9 sCks Or wr	hh72	: S4Shh	NN: N10	NN2: h6	N: 2206	1M21	dDw
9 nPEeor Cmb	: 471	616S	6020	6- 00	6421	4M46	dDw
9 nPEeor Cmb	: h71	- S42	20N4	2010	2N4N	6M8-	dDw
9 nPEeor Cmb	: 671	- : 06	4SS:	- : S:	- : 6h	1M2N	dDw
9 nPEeor Cmb	: 071	1: SS	1N2h	1: 2h	1NN4	2M06	dDw
9 nPEeor Cmb	: N71	44: -	4206	4S60	420:	4M0	dDw
u r noEb cmb	1hS71	4h64h	464N1	401S:	46412	1M1N	dDw
u r noEb cmb	1hS72	14S- 1	14621	1- : S0	141N0	2M0:	dDw
u cdvr P	6S72	N: : Sh	: S4hh	NN0Nh	N: 01h	SMh	dDw
8 GhwDGhpmw	- 172	h4: -	h24-	h26N	h- - 4	2M1N	dDw
8 nTswwcmb	- : 72	11N1: 1	11N2- -	110- : 2	110: - :	SM4S	dDw
. Ghocmb	1S- 71	64- : h2-	02001- -	02- N2NS	6: N4: 0:	6M00	dDw
. Ghocmb	1S- 72	- - S- 0S0	- 2: - h0-	- 212NNh	- 20SShh	1M12	dDw
I ds Cocmb	4h71	4- S- Sh6	4N06416	4: S- 014	46: 4- : 6	0M2-	dDw
I ds Cocmb	4h72	14: : hN	1hS216	14- N46	14NSS0	2M44	dDw
I r PP Cmb	N271	04	716	40	- h	1- 2M12	dDw
I r PP Cmb	0072	6S	6-	0S	64	0MS	dDw
I r PP Cmb	0N72	06	h0	6S	64	1hMM0	dDw
I dPdnC	2N71	12S- 21- S	12- 1h2h-	121S2N2S	121hSS6N	1M21	dDw
I dPr p	1S071	1S2h	1S: 2	1S: 2	1S0S	- M0S	dDw
I dPr p	1S: 71	1S2h	NhN	1ShS	: 0N	1SM06	dDw
I nocmb	2- 72	10: S2h	100N4-	10: 1: 2	10N6N6	SM41	dDw
I TpnCTcmb	N671	142S- 0	140404	1400h2	14h0h4	2M21	dDw
I TpnCTcmb	NN71	12h624S	12hNN41	124h64N	12h- h06	SM16	dDw
I mPVmp	- 471	261h- S	26SSh-	2hNNN-	26S1hh	SM11	dDw
Ar pecmb	1h: 71	: 16: 244	1S4N2h24	1S4h0- h6	1SS- 6- 0h	0M4N	dDw
Ar pecmb	1h: 72	4144N6:	42120- 6	41- : 106	416hh: -	SMN	dDw
AGs PPcmb	2S- 71	NhN	NhN	060	N2N	6M:	dDw
AGs PPcmb	2Sh71	2ShS	10N4	2S2h	1: h-	0M14	dDw
AdC	11N71	hh6S	h: 06	hSh:	hh- 2	NMS	dDw
AdS Cmb	4071	- 406h:	- h6: 20	- h- - S0	- h26- 1	1M12	dDw
RpsCmb	2- N71	110S6	12SN:	12164	11: N0	2M8h	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP u sb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	1- 14N4	1- 1Sh0	12NSN1	1- S2S0	1M42	dDw
YTTr pe omb	10271	0h20	06S2	06S2	0h00	SM10	dDw
YTTr pe omb	10272	- N60	- 662	- : - 4	- N21	- M01	dDw
YTTr pe omb	10671	6S4-	616N	6- - h	61N2	2M10	dDw
YTTr pe omb	10672	1- NS0	14141	1- 624	1- Nh0	1MN1	dDw
YTTpomb	N: 71	124: 42h6	1- h21h1:	1- 0hS116	1- 2hh2: 0	hMSh	dDw
YTTpomb	N: 72	1- : 4: 1-	1- 2: - N1	120h4Nh	1- - - 26S	4M4:	dDw
ZdCd	6672	- 021h	- 026:	- NSS1	- 04: h	1M10	dDw
ZqpdnComb	: S71	1204N	1- 04:	1- S1h	1- 10S	- M4	dDw
ZqpdnComb	: 171	26h:	2NSS	2010	202h	2M61	dDw

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On:7/14/2023 8:48:56 AM
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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : S	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP usb r J	141q . FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	160: S14	162- S- N	162024:	164- 1S1	1M1S	dDw
qCTb nCh	12171	- 12E	- 1N4	2N2E	- S4E	6M12	dDw
qpwr Ccd	0E72	EE: S	E61:	EESS	EE6:	1M11	dDw
Bspcmb	1- E71	2SSSSN	2S2- - 0	2S1E- :	2S12: E	SM4:	dDw
Bspcmb	1- 071	- E22- S	- 6SS10	- 6E22S	- E: 1EE	1M12	dDw
Br phPmb	: 71	1S11	: : 0	1S60	1S2E	- M62	dDw
Bcwb mTG	2S: 71	6: N2S1:	6: 0- 1S0	0S- 2S0-	6: : E0- -	SM4E	dDw
Bcwb mTG	2S: 72	- - : 24S:	- - 4ESS-	- 2444EE	- - 202N:	2M20	dDw
Bpmb cCr	N171	E: : -	61NE	606S	6- 1-	6M12	dDw
5 sob cmb	1SN71	60	0E	N-	0E	11M11	dDw
5 sob cmb	1S671	- 406	- 6S:	- 6S1	- E62	2M1S	dDw
5 sob cmb	11171	N4-	: 2E	N20	N6E	6M11	dDw
5 sPlcmb	4- 71	1SE0- 6	1SE4- S	1S61- S	1SE06E	SM-	dDw
5 sPlcmb	4471	1N4N1- N	1N: N: S2	1NE42- S	1N60S: S	1M4N	dDw
5 spenC	1271	4224NN0	4- ESS- -	44SNSNS	4- 20660	2M16	dDw
5 spenC	1272	E1E: 1	E1016	ES: - :	E141E	SMM1	dDw
5 GPmpcCr	- E71	24: 2- : S0	2: 212- 0E	- 2S- - - 40	2N02- 2S:	12M46	dDw
5 GPmpcCr	- E72	2- - 1N1	2- 006-	2- 002S	2- 6221	1M11	dDw
5 Gpmb cmb	E272	11E- N4	11E- : E	11- 220	11466:	1M8:	dDw
5 nesPT	E: 72	0- SNS	02E- 0	02- 4S	026E2	SM4-	dDw
5 nDDr p	6- 72	216011	21- - 2-	2144ES	214N2N	SMMS	dDw
&hwDpnwcmb	1E671	1646:	16: 2N	16N44	16040	1M46	dDw
&hwDpnwcmb	1E672	0- - 2	0S4E	02S:	01: E	2M8S	dDw
Fpecmb	16471	166- 6	16061	101N0	16N61	1M01	dDw
Fpecmb	16472	0SE2	666N	6: 1E	6N0:	2MM-	dDw
HsonPCcmb	16S71	100S4	102- 0	10E12	104N4	1M4	dDw
HsonPCcmb	16S72	N2E6	N10-	N1S6	N10N	SM12	dDw
KnPb cmb	16E71	: N0: 610	1S1N41NS	1S2- EE1-	1SS: : 00S	1M1S	dDw
KnPb cmb	16E72	4- 601- 2	44S14N:	41S2- : 0	42: S- - :	- MM1	dDw
tCocmb	11E71	021E- S0	0- S- 02N	0- E- 42:	02: SN21	SM16	dDw
tCocmb	11E72	: 610E1	: N6442	: 46SS4	: 640- -	2M11	dDw
tpnC	E472	- 01640-	- 0- 64S2	- 01E4SS	- 0220EN	SM12	dDw
tpnC	E672	60S642E6	661N200S	66226- : :	664: 1141	SM0E	dDw
tpnC	E072	1042641	104: E4E	10E2S62	104NSN-	SM2N	dDw
gphDTnC	N- 71	240	- S6	- 20	2: 4	14M11	dDw
Lr so	2S671	160420	16N0SN	16: S4:	16N- : E	SMM1	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 ayq: S	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP usb r J	141q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	1- N1N1	141- : 1	141- E1	14S- SN	1M1	dDw
Lr so	2SN71	6EE4E:	6E4E42	6E40N0	6E4: 2:	SM80	dDw
LdTGmb	671	2E: S60:	26- 41: 0	260: S: 2	26- 46E6	1M0N	dDw
9 sk Cr wcmb	2472	1: 21: 1S	1N00E41	1N626EE	1NN0- 6N	1M0-	dDw
9 sCks Cr wr	EE72	0E4442	0ES4: -	04: S06	0E1- - 0	SM10	dDw
9 nPheor Cmb	: 471	4410	ESE1	46E:	40S:	6M0:	dDw
9 nPheor Cmb	: E71	2: 10	- 6S1	- 442	- - 2S	1SM0N	dDw
9 nPheor Cmb	: 671	- 026	4N1N	4- 26	42: S	12M0E	dDw
9 nPheor Cmb	: 071	21S:	2- 10	1N- 4	2SN6	11M02	dDw
9 nPheor Cmb	: N71	40- 4	EE- E	E606	E- 1E	: MEE6	dDw
u r nohb cmb	1ES71	21S: 0	21EEN	21164	2120-	1M10	dDw
u r nohb cmb	1ES72	6ESN	64NE	6EN2	6E2E	SM00	dDw
u cdvr P	6S72	6EN21	6E06N	646E:	6E416	1M8S	dDw
8 GhwDGhpmw	- 172	2110	1N: 2	24S:	21- :	12M11	dDw
8 nTswwcmb	- : 72	1S0S1-	1S- 4N6	1S2NSN	1S44- 6	2M16	dDw
. Ghocmb	1S- 71	022NE24	0264N0N	02SSE: 2	02- 1- - 1	SM4E	dDw
. Ghocmb	1S- 72	- 20S644	- 40: - 1-	- 2- 60S6	- - 2NNNN	- MIE	dDw
I ds Cocmb	4E71	4N04N16	4NS16: 6	4024NSS	4NSS4- 0	1MEE6	dDw
I ds Cocmb	4E72	14: 41:	1ES224	144: 4S	14N1: 4	1M12	dDw
I r PP Cmb	N271	ES	-	76	1E	1: 6M10	dDw
I r PP Cmb	0072	- S	4S	4-	- N	1NM6	dDw
I r PP Cmb	0N72	2:	4S	- -	- 4	16MN	dDw
I dPdnC	2N71	100: NEE:	10NS614N	10040221	100N- : 06	SM1N	dDw
I dPr p	1S071	100E	1NES	10: 2	1NS6	2M1N	dDw
I dPr p	1S: 71	1- 2E	1N: 2	1642	162S	10MEE4	dDw
I nocmb	2- 72	1- E02N	1- 60NN	1- 6- SS	1- 6202	SM:	dDw
I TpnCTcmb	N671	002: N	N1E02	0: N0S	0: ENS	2M0S	dDw
I TpnCTcmb	NN71	6N4S1E	6N: SE0	6NSSN4	6N4- NE	SM06	dDw
I mPVmp	- 471	2400: 2	24E- : E	240S- 6	246041	SMES	dDw
Ar pecmb	1E: 71	1S- 142EE	1S42: N1-	1S2ENS44	1S- - 4S- 0	SMME	dDw
Ar pecmb	1E: 72	41- - E0-	4- 21- - -	4SNE- 42	41NSSN-	2M1N	dDw
AGs PPcmb	2S- 71	11ES	1142	11EN	11ES	SM02	dDw
AGs PPcmb	2SE71	2E60	2NS:	20ES	20S:	4M06	dDw
AdC	11N71	NE2N	N661	0N- 6	N- 42	EM1	dDw
AdS Cmb	4071	46: : NN	4642N:	466N62	460S46	SM01	dDw
Rps Cmb	2- N71	- 206N	- - 4- 6	- 2E4-	- 2: 16	1M41	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : S	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP u sb r J	141q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	E172	11EESN	11E- 40	11ENEE	11EE0S	SM22	dDw
YTTr pe omb	10271	4- : -	46S1	4: - 4	464-	EMM:	dDw
YTTr pe omb	10272	262-	2E10	244E	2E2N	- MM4	dDw
YTTr pe omb	10671	4SE1	4NS:	4426	442:	NMM0	dDw
YTTr pe omb	10672	122ES	1- 0- S	1- - : S	1- 12-	EMS	dDw
YTTpomb	N: 71	1- 640ES4	1- 6- 4- - S	12: EESS2	1- 41220N	2MME	dDw
YTTpomb	N: 72	120E: 06	14E41- 2	1- 62: 4S	1- 64- 4:	6MM-	dDw
ZdCd	6672	- 6660	- 6- SS	- 6- - S	- 64- 2	SMM6	dDw
ZqpdnComb	: S71	N4E-	N1- 6	N12N	N2- :	2MME	dDw
ZqpdnComb	: 171	1N2E	1N- 4	10N4	1N14	1MN	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd: 1	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d &be q dpe	2072	12- a2- S	11: - aSu	12SSa4:	12S: 06-	1Rua	Ol l
d. iqe C. E	12171	u: 2	1Sau	1S60	1SS6	: Ru2	Ol l
dll p. qO	0a72	- 20u	- 1: 0	- 120	- 2SS	2R 6	Ol l
Bwldpe	1- a71	11S44u	11Sa1u	11222:	111S6a	SR 1	Ol l
Bwldpe	1- 071	1: 0016	1: u: aS	1: : 12u	1: ua: u	SR :	Ol l
BplE&&pe	: 71	6u4	602	6a1	66:	2R40	Ol l
Bdqe biG	2S: 71	6: 0011-	0S- 01- a	6u1- 0a:	6: 4266:	1R60	Ol l
Bdqe biG	2S: 72	- - a60a1	- - - 01- u	- - - : 2u6	- - 44- : 2	SR 2	Ol l
BlCe q p	u171	4: 06	a1u4	a606	a20:	6Ru1	Ol l
9 wne dpe	1Su71	42	60	au	a6	22R 1	Ol l
9 wne dpe	1S671	- 0a:	- a06	- a: 2	- 642	2R0u	Ol l
9 wne dpe	11171	a6u	a: u	61S	a: 2	- R01	Ol l
9 w&Odpe	4- 71	40ua0	40u- 0	40uS:	40u- 4	SRSa	Ol l
9 w&Odpe	4471	uS2061	uS041u	uS6: 20	uSa0S2	SR 2	Ol l
9 wlr C.	1271	2u2S- 2a	2u0a06u	2ua: uu2	2ua1: : 2	1RSS	Ol l
9 wlr C.	1272	- - : 0-	- - 6: u	- - - : 0	- - 6u:	SRu6	Ol l
9 G&Clq p	- a71	2624u20:	- S604: 0S	- - - 0: aaS	- S1SS: - -	11R 6	Ol l
9 G&Clq p	- a72	2- : S24	2- : - : 6	240: 46	242122	2RSu	Ol l
9 GlCe dpe	a272	6u: 2u	606u:	6uS4u	6u222	SR -	Ol l
9 Cr w&	a: 72	4640:	4aaS:	4a: 14	4a: 60	1RS6	Ol l
9 Ct pl	6- 72	12: 1S1	126: ua	120a01	120uu6	SRua	Ol l
TEl t lCl dpe	1a671	1Su01	12Sa6	1111-	11- 40	aRa1	Ol l
TEl t lCl dpe	1a672	aS44	4: S4	4: au	4: 6:	1R42	Ol l
Ulr dpe	16471	11640	11640	12414	11: S-	- R02	Ol l
Ulr dpe	16472	46- 1	46u1	40: u	40S-	1Ru2	Ol l
HwnC&q dpe	16S71	11: - :	11u22	110u1	11u40	SR6:	Ol l
HwnC&q dpe	16S72	a61u	a62a	aa6u	a6S-	SRaa	Ol l
KC&e dpe	16a71	: u6a: 61	1S1111a:	1S122u: u	1SS- - - - :	1R4a	Ol l
KC&e dpe	16a72	4- aaSuu	422S044	4102- ua	424: 4S6	2R2-	Ol l
& ndpe	11a71	0- 2064-	0- 414a1	0- 11: 02	0- 20S22	SR2S	Ol l
& ndpe	11a72	: 6- 4S1	: 40464	: aS12:	: a- 66a	SR S	Ol l
&C.	a472	20: 0a2-	2u11626	20a: 40-	20u: a41	SR 0	Ol l
&C.	a672	aS: u14aa	aS: S04: 1	4: 01ua: 4	aSa- au40	1R4S	Ol l
&C.	a072	12Su011	12S4u: -	11u- S4:	11: uuu4	1R1a	Ol l
gIEt iC.	u- 71	2: 2	2u:	2: 2	2: 1	SR04	Ol l
Lpwn	2S671	- 4: : 2	- 46- S	- 4aS0	- 401S	SR0-	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd: 1	T&piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u242	2u6S4	2u04:	2ua- 2	SR 1	Ol l
Lpwn	2Su71	1- aa6:	1- - 1a6	1- - : 2S	1- 421a	SR 2	Ol l
LqiGdpe	671	26aS4u4	26uSuS-	2a: 4- 02	2641uu6	1R66	Ol l
y wk. pl dpe	2472	1- a: 224	1- 20uSu	1- S42a:	1- - S4- S	2RS0	Ol l
y w. kw. pl p	aa72	a6: u- 2	aa: 2: 6	a4: 20S	aa: 466	1Ru4	Ol l
y O&Er np. be	: 471	04u6	60ua	606u	0S1-	aRu4	Ol l
y O&Er np. be	: a71	2uS:	2: 10	2u- 4	2ua-	1R :	Ol l
y O&Er np. be	: 671	4- S:	41a1	4- 60	4206	2R62	Ol l
y O&Er np. be	: 071	1: aS	10SS	10: 2	1u14	6R 0	Ol l
y O&Er np. be	: u71	4: 4-	44: -	46a1	46: a	4Ru6	Ol l
mpOnEe dpe	1aS71	14a- a	1- : 04	1446u	14- 26	2R14	Ol l
mpOnEe dpe	1aS72	4200	4141	4201	42- S	1Ru2	Ol l
mqOvp8	6S72	4aS0u	4a20a	44064	4aS- :	SRa0	Ol l
NGOl t GOlbl	- 172	1a: 2	1a10	16: 2	16SS	aR4:	Ol l
NOiwl l dpe	- : 72	a- u4-	a11u-	a2421	a24u2	2Ra4	Ol l
F GOndpe	1S- 71	0- u6S41	0- S- : - 6	01: ua- 0	02: 6101	1R2:	Ol l
F GOndpe	1S- 72	- 2: 24uu	- 2u6au:	- 26S4: -	- 20: ua6	SRa2	Ol l
DOw. ndpe	4a71	4046a60	4uS0u01	4ua- a26	4uS26aa	1R12	Ol l
DOw. ndpe	4a72	1400- 6	146u4:	14- 01u	1461S1	1R44	Ol l
Dp&p. dpe	u271	726	1S	2-	2	121aR4S	Ol l
Dp&p. dpe	0072	1-	1-	20	1u	4- R -	Ol l
Dp&p. dpe	0u72	2-	2a	- 2	20	10R02	Ol l
Dq&qC.	2u71	1- a24- - u	1- - 4u2- a	1- 2u- 006	1- - ua4aS	SR -	Ol l
Dq&pl	1S071	6: 2	6: 2	02a	0S-	2R04	Ol l
Dq&pl	1S: 71	aaS	6SS	610	au:	aRu:	Ol l
DOndpe	2- 72	4uu- 2	40u12	4u2Sa	4u2u-	1RS0	Ol l
DilC. idpe	u671	2au24	261Su	2601u	26210	1R04	Ol l
DilC. idpe	uu71	22S: a0	226- - a	222: a6	22- 416	1R22	Ol l
Db&bl	- 471	220S: -	22a: 2-	22aS4-	226S2S	SR4a	Ol l
cplr dpe	1a: 71	1S246421	1S- - 6: : -	1S11u10S	1S2- - u62	1RS0	Ol l
cplr dpe	1a: 72	424114u	4S: a- : 0	4S6S4uu	41- 2- 44	2R 2	Ol l
cGw&pe	2S- 71	060	0u-	u42	0: 0	4R 4	Ol l
cGw&pe	2Sa71	1010	10SS	10aS	1022	1R4u	Ol l
cq	11u71	26aS	2442	2a- 4	2a42	4R1	Ol l
cqiw. dpe	4071	416: 10	4S: - : 2	4144a-	41- au0	SR -	Ol l
5 lw. dpe	2- u71	14Sau	14160	1422a	141aS	SR6S	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd : 1	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
hw. wndpe	a172	0: u21	0: : : 2	0: 6S0	0: uS0	SR24	Ol l
Yiiplr dpe	10271	- 4: 2	- - a:	- 642	- 4: u	4RSa	Ol l
Yiiplr dpe	10272	1a02	1au:	10SS	162S	4R2:	Ol l
Yiiplr dpe	10671	- a06	- aS1	- - u4	- 4u0	2R00	Ol l
Yiiplr dpe	10672	121a6	12a4a	124: a	12- : :	1R01	Ol l
Yiildpe	u: 71	1- - 6- - 16	1- 4u- a44	1- 2u: - u6	1- - 0u04:	SR0-	Ol l
Yiildpe	u: 72	1- Sa6u-	1206u1S	12061- S	12u62Su	1R 1	Ol l
Zq O	6672	1u606	1u- a:	1u- 6:	1u46u	SR u	Ol l
ZdlOC. dpe	: S71	14a- -	1- a: :	1- 0: :	1- : 00	- Ra2	Ol l
ZdlOC. dpe	: 171	- 4S1	2: : 2	2: - 4	- 1S:	uR u	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dCobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	1u4SJ0	1u7602	1u7- S7	1u7S27	SR47	CI I
d. iqe C. E	121 1	27SS	2242	2410	2- u6	7R7-	CI I
dIl p. qD	07 2	1S41	1S- 0	1S1J	1S- 2	1R14	CI I
Bwldpe	1- 7 1	10Su62	10S4J1	102467	10120-	SR61	CI I
Bwldpe	1- 0 1	2J7422	- S11J7	2J07- 6	2JuS71	SR3u	CI I
BplE8dpe	J 1	1070	16u6	10SJ	1010	2R12	CI I
Bdqe biG	2SJ 1	66u6- 4u	64- - u- 2	6u4J4SJ	66767- S	- R17	CI I
Bdqe biG	2SJ 2	- - - 4uJ1	- 2042- J	- - u- 4JJ	- - - Su06	1R64	CI I
BICe q p	u1 1	44J-	4J7J	47u4	460J	7R2J	CI I
9 wne dpe	1Su 1	7u	01	u-	01	10R67	CI I
9 wne dpe	1S6 1	- 642	- 606	- JS1	- 0- J	- R06	CI I
9 wne dpe	111 1	u1J	0uJ	6u6	067	JR14	CI I
9 w8Cdpe	4- 1	- 400JS	- 4u- 44	- 47010	- 402u4	SR4S	CI I
9 w8Cdpe	44 1	7J76SS7	7J647SJ	7uuuuJ2	7J- 646u	SR0S	CI I
9 wIr C.	12 1	26Su11S	26- 01JS	262u06-	26246uu	SR70	CI I
9 wIr C.	12 2	- 10S1	- 161u	- Su7S	- 1- JS	1R7S	CI I
9 G8Clq p	- 7 1	277666S-	2J- 4SJS1	- 1471J12	2u0u6402	1SR 6	CI I
9 G8Clq p	- 7 2	220JJ0	2- 2411	2- 474-	2- 167S	1R44	CI I
9 GICe dpe	72 2	24077	24204	2- u2-	242u4	1R12	CI I
9 Cr w8	7J 2	JJ6S	1S4J4	1S7S0	1S- 2S	- RS2	CI I
9 Ct pI	6- 2	22- S4	2222u	21u10	22116	1R1J	CI I
TEI t ICI dpe	176 1	4- 7S7	461- S	47001	471- 7	- R17	CI I
TEI t ICI dpe	176 2	1u0u-	1u70-	1u41J	1u7J2	SR3u	CI I
UIr dpe	164 1	- - 127	- - - 42	- - 260	- - 247	SR -	CI I
UIr dpe	164 2	12uu-	12066	1- 200	12J07	2RS6	CI I
HwnC8q dpe	16S 1	- JS41	- uS22	- J61u	- uuJ4	2RSu	CI I
HwnC8q dpe	16S 2	10Ju6	1u24J	1uSSJ	1uSu1	SR01	CI I
h C8e dpe	167 1	Ju0J026	J1J7J16	J62- 1u6	J766206	- R61	CI I
h C8e dpe	167 2	42u7Ju6	4214J27	4- 61S77	42u0- 22	1R0S	CI I
& ndpe	117 1	6JuS47S	6076SJ6	0S706- 6	6J- 1- J4	2R26	CI I
& ndpe	117 2	Ju24u0	J07J1J	Ju1- 74	J0JJ2S	SR 6	CI I
&C.	74 2	JS71u-	J12106	J1S407	JSJ20u	SR4S	CI I
&C.	76 2	1006SJ16	1002J4- u	106JJ1S2	1002Ju1u	SR10	CI I
&C.	70 2	41u6u-	41664J	414- - u	416770	SR72	CI I
KIEt iC.	u- 1	- 11	2u4	- S0	- S1	4R16	CI I
Lpwn	2S6 1	12077S	1- 107-	12u66S	12J- 21	1R6u	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwOICI:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	1S747-	1S7u46	1S701u	1S7602	SR1J	Ol I
Lpwn	2Su 1	4JJS1-	7S- Ju1	4JJJu0	7SSJJ4	SR7-	Ol I
LqiGdpe	6 1	270241S	2- J16J2	2766S- 7	271SS46	4RSJ	Ol I
y wg. pl dpe	24 2	0200uS	021- 4-	0- 2S6J	020S64	SR04	Ol I
y w. gw. pl p	77 2	- 7u0- 6	- 61416	- 7JS- 1	- 7J02u	SR41	Ol I
y C8Er np. be	J4 1	14707	146Su	14- JJ	14720	SR00	Ol I
y C8Er np. be	J7 1	44- 4	4726	461u	4726	2RS-	Ol I
y C8Er np. be	J6 1	60- 7	6u20	661S	6024	1R62	Ol I
y C8Er np. be	J0 1	2J60	2JSJ	2J10	2J- 1	1RSu	Ol I
y C8Er np. be	Ju 1	0S00	0100	0272	016J	1R2-	Ol I
mpOnEe dpe	17S 1	uS40-	u216-	u1u62	u17SS	1R11	Ol I
mpOnEe dpe	17S 2	24SJu	24J- 0	242JJ	24447	1R0J	Ol I
mqOkp8	6S 2	4641	7121	71Su	4J76	7R72	Ol I
NGOI t GOIbI	- 1 2	14SS	1242	1- J2	1- 47	6R6-	Ol I
NOiwI dpe	- J 2	1407- 4	1466Su	146201	146uS4	SR47	Ol I
F GOndpe	1S- 1	6JS6441	6uSJ447	6u627- u	6u7J407	SR01	Ol I
F GOndpe	1S- 2	- 4S1- - u	- - - 0Su7	- - J1uu6	- - 0606J	1RS-	Ol I
DOw. ndpe	47 1	44u170u	4- - 4S- 1	472uu07	444u161	2R2u	Ol I
DOw. ndpe	47 2	140S07	14JSu-	14JS- 4	14u- J0	SR00	Ol I
Dp8p. dpe	u2 1	62	40	- 4	4u	- SRS2	Ol I
Dp8p. dpe	00 2	11S	1SS	1S0	1S6	4Ru2	Ol I
Dp8p. dpe	0u 2	6J	u2	6S	0S	17R02	Ol I
Dq8qOC.	2u 1	02uuJ26	010u401	01- 7Su2	02SSu26	1R1S	Ol I
Dq8vpI	1S0 1	JSS	u60	1Su-	J7S	12R2u	Ol I
Dq8vpI	1SJ 1	1SSS	J42	07S	uJ0	14R7u	Ol I
DOndpe	2- 2	4- 22-	4- 741	42046	4- 10S	SR1-	Ol I
DiIC. idpe	u6 1	074S4	0- J6-	06S24	071- S	1R41	Ol I
DiIC. idpe	uu 1	644471	672071	671J4J	64J010	SR0S	Ol I
Db8bI	- 4 1	27S67J	2661JJ	20JS4S	2672JJ	7R 6	Ol I
cpIr dpe	17J 1	J0147S7	J7- 020J	J000S44	J606206	1R2J	Ol I
cpIr dpe	17J 2	41S0JuJ	424SJu4	424J2u0	41JJ42S	1RuJ	Ol I
cGw8bpe	2S- 1	1- 10	12Su	JJ2	1102	14R12	Ol I
cGw8bpe	2S7 1	2uSJ	2J42	27SS	207S	uR24	Ol I
cq	11u 1	06u6	0J7-	u161	0J- -	- RSS	Ol I
cqiw. dpe	40 1	20061J	206201	20- 7u0	207u26	SR04	Ol I
5 Iw. dpe	2- u 1	- 2141	- - - u6	- - - 47	- 2J70	2R17	Ol I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	10S44	10470	16000	10SJ-	2RS1	Ol l
Yiiplr dpe	102 1	Ju62	1SS- 0	J462	J0u0	- RS1	Ol l
Yiiplr dpe	102 2	4JS0	4647	466u	404S	- RS6	Ol l
Yiiplr dpe	106 1	04J4	0611	0400	0720	SR10	Ol l
Yiiplr dpe	106 2	14uS-	14627	140- 1	1402S	SR61	Ol l
Yiildpe	uJ 1	1- 160260	12J16- S2	1- 22u4- 4	1- 1S4SS1	1R26	Ol l
Yiildpe	uJ 2	1- 46- u1	14202u4	142JSJ7	14SSJ2S	- R 0	Ol l
Zq O	66 2	- S426	2JuJu	2J11-	2Ju1-	2R22	Ol l
ZdlOC. dpe	JS 1	- 246-	- - 7u-	- 2- 22	- 20uJ	2R11	Ol l
ZdlOC. dpe	J1 1	0244	0200	0272	027u	SR24	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t Nd:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Nd. i:DI e t Nd:&T:a	y h SMS7	TdNiqC. :M OCI:a	1
TI ip:A:coe p:dOobdpn:a	2S2- S0 12:1Ja7sa-0	TI il MdNd:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	10J4sJ	10020s	1s1s- s	10J7- 7	1R20	O P
d. ioe C. E	121 1	1J7S	2S27	22- 4	2S0S	0RSJ	O P
dIPp. oO	07 2	J7S	s71	JJ0	J- -	0RJJ	O P
BI Idpe	1- 7 1	1s1Ss0	1s41SS	1s22- 7	1s2404	SRs-	O P
BI Idpe	1- 0 1	- 1s777	- 2J11J	- 24S2S	- 2- sJs	1R6-	O P
BpIENdpe	J 1	1JSS	1s0S	1Js1	1J10	- RSS	O P
BqPe biG	2SJ 1	07s2S0s	04- 2S- 4	6J7S060	0- 21626	4R7S	O P
BqPe biG	2SJ 2	- - 7422s	- - 6JJ- s	- S4SSSs	- 274027	7R02	O P
BIOe q p	s1 1	71SJ	4s4-	7SS1	4Js4	2R6J	O P
9 I ne dpe	1Ss 1	0J	ss	0J	s2	7Rs0	O P
9 I ne dpe	1S6 1	41S1	4471	- J71	4160	6R16	O P
9 I ne dpe	111 1	027	046	sS6	07J	7R7-	O P
9 I NOdpe	4- 1	47S114	46Ss4-	47220J	474412	1R27	O P
9 I NOdpe	44 1	07- SS- 2	0JS07- 0	06JSS67	00SJ211	2R46	O P
9 I Ir C.	12 1	262- 1s-	20S- J24	20112- 6	260J44s	1Rs2	O P
9 I Ir C.	12 2	- 2ss0	- 16s7	- 1626	- 2S66	2R22	O P
9 GNOIq p	- 7 1	2746- 141	2J6J61J7	- 17s12Ss	2sJ1- 717	1SRs4	O P
9 GNOIq p	- 7 2	2- 107J	2- 4S- 6	24S1- 7	2- 7- 1S	1Rs4	O P
9 GIOe dpe	72 2	24ss7	24sJs	27SsJ	24J70	SR46	O P
9 OrI NI	7J 2	1S0- 0	1Ss- 4	1Ss11	1S0J4	SR40	O P
9 Ot pI	6- 2	217sS	21706	22- 04	21s44	2R1S	O P
TEPt IOPdpe	176 1	716J-	7S147	717- 4	71124	1R60	O P
TEPt IOPdpe	176 2	21S2S	2SJ6S	2SJ- S	2SJ0S	SR22	O P
UIr dpe	164 1	- 7024	- 466-	- 64s4	- 762-	2R70	O P
UIr dpe	164 2	14611	144S7	14214	1441S	1Rs	O P
HI nONqdpe	16S 1	411s1	42s44	42061	42262	2R22	O P
HI nONqdpe	16S 2	2S42J	2S102	2S0S6	2S4- 6	1R 1	O P
h ONe dpe	167 1	1S07- sS1	1S- 6S- S1	1S1s60- S	1S4- - 611	2R0s	O P
h ONe dpe	167 2	4- 44S61	4- J1S01	4S1S07J	424s6- S	4Rss	O P
& ndpe	117 1	001s- J6	06J1SS0	044S402	0616627	2RS1	O P
& ndpe	117 2	JJSJ7-	JJ4610	sJJJs0	J61s72	7R70	O P
&C.	74 2	s6- 2Ss	s7s64-	s0S0J6	s64216	SR01	O P
&C.	76 2	160J047S	16sS2Js6	16J7S6Ss	16s7S- 4s	SR72	O P
&C.	70 2	- J67J4	- J0224	- JsJ4s	- J07ss	SR 1	O P
KIEt iC.	s- 1	- 66	- 1S	- S4	- 20	1SR74	O P
LpI n	2S6 1	120164	12- JSJ	12sJ41	126602	2RS1	O P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t Np:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t Np:&T:a	y h SMS7	TdNiqC. :M OCI:a	1
TI ip:A:cqe p:dOobdqpn:a	2S2- S0 12:1Ja7sa-0	TI il MdNp:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
LpI n	2S0 1	Js4S7	JJSSJ	1S1- 2S	JJ70s	1R77	OI P
LpI n	2Ss 1	4s7616	4sSJs1	4sJ0- 1	4s744-	SR1S	OI P
LqGdpe	6 1	20SJS60	2660704	26S0216	26612s6	1R12	OI P
y I g. pPdpe	24 2	sSs017	sSS41S	s1242-	sS01s2	SR06	OI P
y I . gI . pPp	77 2	4S77SJ	4S0J44	411- 06	4Ss200	SR02	OI P
y CNEr np. be	J4 1	12Js1	126- J	1- S76	12sJ2	1R02	OI P
y CNEr np. be	J7 1	- - 60	- 242	- 471	- - 7-	- R1-	OI P
y CNEr np. be	J6 1	76S1	774-	4JJ-	7- 0J	6R24	OI P
y CNEr np. be	J0 1	2107	2S42	21J2	21- 6	- R37	OI P
y CNEr np. be	Js 1	771S	7s- 7	711s	74s0	6R74	OI P
mpOnEe dpe	17S 1	sJJ66	JSS26	J1Ss2	JS- 7s	SR6J	OI P
mpOnEe dpe	17S 2	2067J	202- 1	207Ss	20466	SR0J	OI P
mqOkpN	6S 2	4s71	4664	4J41	4s1J	2R1-	OI P
uGOPt GOIbP	- 1 2	1442	1- Ss	1- SS	1- 7S	7R3J	OI P
uOI PPdpe	- J 2	14- 00s	146s0s	14J41s	1466J1	1R1-	OI P
FGOndpe	1S- 1	0sS72- J	0627040	0- 4S7- S	07JS7S7	- RSJ	OI P
FGOndpe	1S- 2	- 4- 746s	- 4S02sJ	- S46s01	- 2J674-	6R70	OI P
DOI . ndpe	47 1	7Ss- S00	7140202	4s40s76	7S26S6J	- R14	OI P
DOI . ndpe	47 2	14s062	14JSS-	1- s774	1474- J	4R1S	OI P
DpNp. dpe	s2 1	2S	02	77	4J	74R0	OI P
DpNp. dpe	00 2	1SS	J0	12S	1S6	11R37	OI P
DpNp. dpe	0s 2	J-	61	J-	s2	22R44	OI P
DqNDC.	2s 1	0J7s- 1s	s1JJs0S	sSsJ167	sSs2471	1R7S	OI P
DqNpI	1S0 1	042	ss-	s07	s- -	JR74	OI P
DqNpI	1SJ 1	6J2	s27	6- -	010	1- R01	OI P
DOndpe	2- 2	4- s16	47740	4- 0s-	44- s2	2R20	OI P
DiIC. idpe	s6 1	s- 010	s7sss	s62J1	s72JJ	1R62	OI P
DiIC. idpe	ss 1	0- 4sS7	07SS01	0714s7	04747-	1R24	OI P
DbNbI	- 4 1	20J- J0	2sS2J1	2s- 4JS	2s1S7J	SR00	OI P
cpIr dpe	17J 1	111- 17S-	1Ss- 24JJ	1S- S0276	1S070Ss6	- R3s	OI P
cpIr dpe	17J 2	4204sJS	4- 6S0- 1	- s66471	4160- 70	6R 4	OI P
cGI Npe	2S- 1	11- -	117S	1160	117S	1R47	OI P
cGI Npe	2S7 1	- 110	26- 4	2ss4	2s0s	sR4S	OI P
cq	11s 1	- 202-	- - - 41	- - 607	- - 240	1R47	OI P
cqI . dpe	40 1	26227S	20SJ7-	26- 2- J	2674sS	1R0J	OI P
5 II . dpe	2- s 1	- 404S	- 6- S2	- 70J-	- 7612	2R24	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCl:a	wI P8 I N
LI r :DI e t Nb:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Nb. i:DI e t Nb:&T:a	y h SMS7	TdbiqC. :M OCl:a	1
TI ip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja7sa-0	TI il MdbN:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	16s4S	16JsS	160s0	16s6J	SR7J	OI P
YiipIr dpe	102 1	1SS21	1S101	Js74	1SS17	1R7s	OI P
YiipIr dpe	102 2	71J6	7S4S	71S1	7112	1R7-	OI P
YiipIr dpe	106 1	0s1J	sS7-	s111	0JJ4	1R4-	OI P
YiipIr dpe	106 2	17- 2S	17SJs	14264	14sJ4	- R04	OI P
YiiIdpe	sJ 1	14711J42	14- 2212s	14SS6670	142sS242	1R0J	OI P
YiiIdpe	sJ 2	1464407	147646s	1- S0s- S	14SJ7J1	6R26	OI P
ZqO	66 2	22s- 2	22J77	22J6J	22J1J	SR-	OI P
ZdOC. dpe	JS 1	2sJ40	2J- JS	2Js04	2J4S4	1R7s	OI P
ZdOC. dpe	J1 1	7J06	6J72	6s00	66S2	sR22	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUS6	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCmb	20 2	47620	44776	47716	472- -	1M1S	dDw
qCTb nCh	121 1	4- -	460	6- -	711	2SM46	dDw
qpwr Cd	07 2	2E-	2NS	267	20E	7M52	dDw
Bspmb	1- 7 1	42E61	446N-	42- 27	4- - 2-	2M02	dDw
Bspmb	1- 0 1	066SS	06026	06117	064N1	SM42	dDw
Br phPmb	E 1	6N1	6N0	0- S	0SS	- M0E	dDw
Bcvb mTG	2SE 1	024S6E2	02NN244	010- 4- E	02- 4127	SMMS	dDw
Bcvb mTG	2SE 2	- S1S622	2EN7644	- S402E-	- S1472S	1M8-	dDw
Bpmb dCr	N1 1	44- 4	47N4	477E	4726	1M0N	dDw
5 sob mb	1SN 1	21	01	27	- E	01M4	dDw
5 sob mb	1S6 1	41N4	- E- 4	4SN4	4S60	- M8E	dDw
5 sob mb	111 1	774	4EN	766	7- E	6M02	dDw
5 sPdmb	4- 1	1- - 27S	1- 4124	1- - 07S	1- - 0SN	SM-	dDw
5 sPdmb	44 1	22E72S7	2- 7S61-	2- - 7- E6	2- 20S01	1M4-	dDw
5 spenC	12 1	2442- SE	2461- 6S	2472SS7	2471NE1	SMIE	dDw
5 spenC	12 2	2NE6-	2N60E	2ESS4	2NNN2	SM01	dDw
5 GPmpdCr	- 7 1	27- 00107	2E4SN076	- 1E7- 216	2NE1- S4E	11M40	dDw
5 GPmpdCr	- 7 2	2- 2S- N	2- 1466	24- 42N	2- 7644	2M06	dDw
5 Gpmb mb	72 2	- NSE	20- S	2N04	- 1- N	1NM0N	dDw
5 nesPT	7E 2	27ES	2444	20S4	270E	7M86	dDw
5 nDDr p	6- 2	7201	7- 24	7- EN	7- - 1	1M1E	dDw
&hwDpnwmb	176 1	177E-	1706S	17- 26	1777E	1M41	dDw
&hwDpnwmb	176 2	6- N7	620N	64S7	6- 76	1M80	dDw
Fpemb	164 1	12276	11N- 1	11002	11E7-	2M21	dDw
Fpemb	164 2	4644	4661	4014	460-	SM0N	dDw
HsonPCmb	16S 1	1- - S0	1- - 4E	1- 6E1	1- 44E	1M70	dDw
HsonPCmb	16S 2	66NN	6267	6407	6406	- M20	dDw
y nPb mb	167 1	1S4- SS40	1S4711- 0	1S- NN4N1	1S42- 222	SM1	dDw
y nPb mb	167 2	- 07- 44E	4SS21NN	- N24122	- N7EE2S	- M2	dDw
tComb	117 1	004- EES	06N2- S7	00E7221	004S7S6	SM0-	dDw
tComb	117 2	N6E1E4	ES4N1E	NN1- SS	NN71S4	2M87	dDw
tpnC	74 2	2NE7- -	2N0404	2E477S	2ES71E	1M27	dDw
tpnC	76 2	7N207E2	762E0E1	76N7SS0	70141- S	1M0E	dDw
tpnC	70 2	1- - 20E	1- 1101	1- - ES0	1- 20N7	1M8N	dDw
KphDTnC	N- 1	2E2	272	- S7	2N-	EM0N	dDw
Lr so	2S6 1	27S41	27- S-	27- 40	272- S	SM06	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUS6	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:usb r:J	147q. FUM

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S0 1	1E706	2S4- -	1EEN2	1EEE0	2M14	dDw
Lr so	2SN 1	E617-	EN-74	E670S	E0S26	1M2S	dDw
LdTGmb	6 1	26SESE4	2702601	27N17N1	27N00N2	SM0-	dDw
9 sgOr wcmb	24 2	214712	2S6E26	2161N1	21274S	2M12	dDw
9 sOgsOr wr	77 2	2S2N41	1E717E	1EE760	1EE1NE	1M44	dDw
9 nPheor Cmb	E4 1	- ESE	42E2	404-	4- 17	EM60	dDw
9 nPheor Cmb	E7 1	1007	1N10	1E- 4	1N42	4M46	dDw
9 nPheor Cmb	E6 1	2210	2160	2- - 4	22- E	- M12	dDw
9 nPheor Cmb	E0 1	1S10	E- -	E07	E07	4M20	dDw
9 nPheor Cmb	EN 1	27N4	267E	2660	26- 6	1M04	dDw
u r nohb cmb	17S 1	274EN	260SS	26S72	26SN-	2M1	dDw
u r nohb cmb	17S 2	0N- E	0006	0ES2	0N- E	SMM1	dDw
u cdkr P	6S 2	N40	NE0	E7-	NEE	7M44	dDw
8 GhwDGhpmw	- 1 2	427	4N-	442	47S	6M6N	dDw
8 nTswwcmb	- E 2	42SE7	- EE22	4121N	41S0E	2M06	dDw
. Ghocmb	1S- 1	00- - N4E	001SNNS	06466E6	06E0142	SM7E	dDw
. Ghocmb	1S- 2	2E0- 767	- SES07S	- S- N770	- S- 42E1	1M4-	dDw
I dsCocmb	47 1	4ES1ES-	4NE4S- S	4ESSN67	4NENE- -	SM3E	dDw
I dsCocmb	47 2	12N- - 4	1- 7NE1	1- 1- 67	1- 1N6-	2MMN	dDw
I r PCcmb	N2 1	14	NS	- 2	42	N1M7	dDw
I r PCcmb	00 2	20	2-	4S	- S	2EM4S	dDw
I r PCcmb	0N 2	2N	- -	20	2E	1SM46	dDw
I dPdnC	2N 1	- 217S47	- 1E022S	- 2S2642	- 2S4E6E	SM2E	dDw
I dPr p	1S0 1	4- -	- 7S	- 10	- 60	16M1E	dDw
I dPr p	1SE 1	27N	2N-	2N-	207	7M27	dDw
I nocmb	2- 2	- 012-	- 70E7	- 771E	- 6147	2M0	dDw
I TpnCTcmb	N6 1	1N6NS	1EES6	1E422	1E- - 6	- M2S	dDw
I TpnCTcmb	NN 1	166S67	164- 7E	167SN0	16710S	SM72	dDw
I mPmp	- 4 1	2E2N27	2ES- 4S	2E- 614	2E226S	SM7N	dDw
Ar pecmb	17E 1	1S76SNE2	1S4116SN	1S4N7EN0	1S4N6162	SM01	dDw
Ar pecmb	17E 2	- 67247S	- N- 1E4-	- 6N7462	- 02- 2N7	2M70	dDw
AGsPPcmb	2S- 1	- E2	4- -	227	- 7S	- 1M7S	dDw
AGsPPcmb	2S7 1	NE2	NSN	1S10	ES6	11M7N	dDw
AdC	11N 1	2027	27E2	247E	27E2	7M14	dDw
AdSCcmb	40 1	6- 616	67N72	67471	64E0-	1M4-	dDw
RpsCcmb	2- N 1	11- 64	121- 1	11- NS	11627	- M0	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUS6	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:u sb r :J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	71 2	- 2E0	- S- 4	- 400	- 26E	6NN2	dDw
YTTr pe omb	102 1	- N06	- N26	- NSE	- N- 0	SNES	dDw
YTTr pe omb	102 2	1E47	16NE	1047	10E-	0N7S	dDw
YTTr pe omb	106 1	- 0N4	- 27E	- 6SE	- 771	0N7-	dDw
YTTr pe omb	106 2	11SE4	110S6	11711	114- 0	2N0-	dDw
YTTpomb	NE 1	14S76S- 1	1- 6- - E6N	14S4S6N6	1- E1S22N	1N02	dDw
YTTpomb	NE 2	117- 6E2	12N67E-	11N64E2	12SNE26	7N0-	dDw
ZdCd	66 2	11- 11	11- 4N	1122N	112E6	SN74	dDw
ZqpdnComb	ES 1	ES61	E70E	E4S-	E- 4N	2NN1	dDw
ZqpdnComb	E1 1	2- E2	2S7E	227S	22- 4	0N4E	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUN2	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r:J	146q. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	20 2	04S6S-	0- 470-	0277SN	0- h161	SM0-	dDw
qCTb nCE	121 1	- SS7	- 2S7	- 172	- 1- 0	- M14	dDw
qpwr Ccl	0h 2	4N- N	4044	40- 4	4002	1M2S	dDw
Bspcmb	1- h 1	h0- 161	h71h1h	h06h17	hNS- 7N	1M6N	dDw
Bspcmb	1- 0 1	1S1472S	1S44701	1S1N664	1S261Nh	1M6S	dDw
Br pEPPmb	7 1	2670	2027	2071	20- 7	1M04	dDw
Bcwb mTG	2S7 1	6NNS172	6N74NN7	0166606	67NShN6	2M1	dDw
Bcwb mTG	2S7 2	- - 00h66	- 417hh1	- 2N070N	- - 6167N	2M8S	dDw
Bpmb cCr	N1 1	67- h	0h20	N- 17	0h74	7M1h	dDw
5 sob cmb	1SN 1	10h	172	1h4	104	1SM12	dDw
5 sob cmb	1S6 1	44- 4	4172	44h7	4- 62	- M1N	dDw
5 sob cmb	111 1	2107	2S2-	2110	21S6	- M0h	dDw
5 sPlcmb	4- 1	- 114- 1	- 2120-	- 1N- h1	- 10S1N	1M17	dDw
5 sPlcmb	44 1	h- 26S0S	hh- h1SN	h472h40	h4h1241	2M8-	dDw
5 spenC	12 1	400S421	47h7hh7	470hN00	47S17h2	2M-	dDw
5 spenC	12 2	h7h- N	hNN17	h77- 1	h7427	SM7h	dDw
5 GPmpcCr	- h 1	2h11211N	27- 2606h	- 1- - 762h	2Nh72N- 6	11M1	dDw
5 GPmpcCr	- h 2	226S2N	220716	2- Sh- S	22N1hN	SM7	dDw
5 Gpmb cmb	h2 2	47606	h1SN4	hS2hh	hS- - N	1M1	dDw
5 nesPT	h7 2	6hN62	6407S	641S4	6471N	1M6	dDw
5 nDDr p	6- 2	1h- N21	1h2117	1h2h70	1h2N46	SM10	dDw
&EwDpnwcmb	1h6 1	0- hS2	06612	0676-	0h672	2M2	dDw
&EwDpnwcmb	1h6 2	- 1474	- 1- S0	- 120-	- 1- hN	SMN	dDw
Fpecmb	164 1	62- Sh	64NN-	6427S	6- N26	2M2	dDw
Fpecmb	164 2	261N6	247NS	2h261	2h406	2M1N	dDw
HsonPCcmb	16S 1	666N4	6N116	67SS4	607- h	1M02	dDw
HsonPCcmb	16S 2	- 220-	- 1712	- 1- N4	- 1Nh6	1M1S	dDw
y nPb cmb	16h 1	1SSS2S- h	77N0160	1S260617	1SSNh6S0	1M16	dDw
y nPb cmb	16h 2	44hSh12	4- 17202	4- 7- 6S1	4- N007h	1M1S	dDw
tCocmb	11h 1	0- - 6444	021h7h0	04S0SNS	0- 17N20	1M2	dDw
tCocmb	11h 2	1SShh7h	1SS074h	7NSS1h	770Nh2	1M1h	dDw
tpnC	h4 2	- Nh40- S	- 712h66	- NNh4S1	- NN42- 2	SM04	dDw
tpnC	h6 2	6770- S1h	67776S07	6N0Nh220	67hN4004	1M8S	dDw
tpnC	h0 2	1NS0h- 6	10N0S14	1006- 26	107S272	SMN7	dDw
KpEDTnC	N- 1	- - 6	- - S	- 46	- - 0	2M1-	dDw
Lr so	2S6 1	4440h4	4h6- 72	4hSS- -	4hS- 7-	1M27	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN2	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r:J	146q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	- 677h7	- 0N164	- 06071	- 04702	1M10	dDw
Lr so	2SN 1	104- - S0	1007- hS	10602S7	106- 2N7	1N84	dDw
LdTGmb	6 1	26206S-	261SN6N	26hSh- 6	2627667	SN06	dDw
9 sgOr wcmb	24 2	N747- h	N047SN	N67h2S	N070NN	1M12	dDw
9 sOgsOr wr	hh 2	N412S7	N2h0N6	N2- 642	N- S212	1M1h	dDw
9 nPEeor Omb	74 1	2S2- 2	2S104	17- - 7	1771h	2M11	dDw
9 nPEeor Omb	7h 1	60- h	0- Nh	6074	6701	hM16	dDw
9 nPEeor Omb	76 1	1SS46	7NN0	1Shh4	1S162	- M4-	dDw
9 nPEeor Omb	70 1	4- - 4	4006	4- h7	447S	hM1-	dDw
9 nPEeor Omb	7N 1	11h40	110- 7	110- 7	1160h	SM7h	dDw
u r noEb omb	1hS 1	12S4S1	12427S	12- 10-	122622	1M4-	dDw
u r noEb omb	1hS 2	- 0- h7	- 6014	- 647S	- 6Nh4	1M12	dDw
u cdkr P	6S 2	- 6- 0S	- h71h	- 6SN6	- 6124	SM04	dDw
8 GhwDGhpmw	- 1 2	6- 1N	667-	606S	6h71	- M61	dDw
8 nTswwcmb	- 7 2	- 14SS6	- 17h4h	- 12NN7	- 1h4NS	1M1-	dDw
. Ghocmb	1S- 1	02N- 602	0- 17S1h	0- N4770	0- 2722N	SM0S	dDw
. Ghocmb	1S- 2	- 411S10	- h1Shhh	- - 16027	- 412060	2MN4	dDw
I dsCocmb	4h 1	47N2S42	40472- 4	hS7SSN1	474S4h2	- M1-	dDw
I dsCocmb	4h 2	1h20S-	1h62hh	1hSN0S	1h- 206	1M07	dDw
I r PPCmb	N2 1	207	220	204	26S	1SMN0	dDw
I r PPCmb	00 2	140	14-	1hS	140	2M20	dDw
I r PPCmb	0N 2	1- 0	1SN	12-	12-	11MN2	dDw
I dPdnC	2N 1	12h066N6	1- 14Nh46	1260- NNS	120770S4	2M17	dDw
I dPr p	1S0 1	2072	2NS7	2642	204N	- M14	dDw
I dPr p	1S7 1	2660	2hN4	2042	2664	2M10	dDw
I nocmb	2- 2	74- 6-	7- 441	74- 21	74S42	SM1h	dDw
I TpnCTcmb	N6 1	- S4Sh1	- S676S	- Sh24h	- Sh417	SM1N	dDw
I TpnCTcmb	NN 1	2071027	27S261h	2070h70	2N- S640	2M1S	dDw
I mPPmp	- 4 1	- S2- N-	27N- h0	27hNNh	27NN0h	1M1S	dDw
Ar pecmb	1h7 1	1S227100	1S1hSNN1	1Sh74617	1S- 24N72	2M17	dDw
Ar pecmb	1h7 2	42111- S	4171111	41h7667	41N0- S-	SM02	dDw
AGsPPcmb	2S- 1	2672	26hS	2472	2611	4N84	dDw
AGsPPcmb	2Sh 1	6120	6020	64- h	64- S	4M60	dDw
AdC	11N 1	7N12	7hh4	1ShNN	77N4	hM17	dDw
AdSCcmb	40 1	02h26	0h0- 4	04- 4-	042S1	2M10	dDw
RpsCcmb	2- N 1	N6- 26	72274	7S4N2	N70S1	- M41	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or TusB r :J	8 N
5 PrCTI sb DPP:t&:J	9 y SUN2	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:u sb r :J	146q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h1 2	Nh- S2	Nh470	Nh6- 1	Nh400	SM17	dDw
YTTr pecmb	102 1	1720-	17766	17N7S	1701S	1M1-	dDw
YTTr pecmb	102 2	7N26	72- 0	767N	7hN0	- M4-	dDw
YTTr pecmb	106 1	1- 177	14S16	1- 2h0	1- 471	- MN	dDw
YTTr pecmb	106 2	1N- 71	1N670	1060-	1N2h4	2MMN	dDw
YTTpcmb	N7 1	14h- 0064	141h6621	14267- 6h	14- 212hS	1M0	dDw
YTTpcmb	N7 2	1h- S02-	1h22166	14727S2	1h1h264	1M1	dDw
ZdCd	66 2	06626	0hN22	0h10h	0hN04	SM16	dDw
ZqpdnCcmb	7S 1	42N2h	44276	4h4SS	44104	2M12	dDw
ZqpdnCcmb	71 1	72- 0	7h07	7612	7406	2M17	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
LwrJDwe t 8pJ8TJaJ	3 - 447 S:	& l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	T8biqC. JMwOlClJa	1
TwipJAJcqe pJdOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMt8pJmwe pJa	140dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . ql
d8be q dpe	20 2	11uS0- 7	1Su61: 6	1Su274:	1116614	4R7u	Ol l
d. iqe C. E	121 1	10: 4:	1u4uS	1u6- u	1u221	- R24	Ol l
dll p. qO	0: 2	u76:	u722	u0- u	uu0:	1R 6	Ol l
Bwldpe	1- : 1	7- - 2u1	7: 0- 76	74- - 16	74466:	1R2u	Ol l
Bwldpe	1- 0 1	102u240	1u47722	104: - uu	1004: 17	- R01	Ol l
BplE8pe	7 1	: 6S7	: 000	: 6- :	: 604	1R 7	Ol l
Bdqe biG	2S7 1	047: Su:	02: 4- : -	01S0406	02u: 6- u	2R67	Ol l
Bdqe biG	2S7 2	- S: : S6u	- 2707- 2	- - : - 2u2	- 2- : 420	4R7S	Ol l
BlCe q p	u1 1	u0u6	u7- 6	uu7:	uu02	SRu0	Ol l
9 wne dpe	1Su 1	: SS	: 10	: S4	: S0	1R01	Ol l
9 wne dpe	1S6 1	40S7	46- 4	4u7-	404:	2RuS	Ol l
9 wne dpe	111 1	6202	6S: -	6- 46	6224	2R4:	Ol l
9 w8Odpe	4- 1	uu6S40	7S200S	uu60u6	u71u60	1RS6	Ol l
9 w8Odpe	44 1	1: 1S2- 1:	1: 4: S774	1: 2- 64u:	1: 26- 26:	1R1:	Ol l
9 wlr C.	12 1	0170624	044u: S2	06: u1S6	04- 4044	- R1S	Ol l
9 wlr C.	12 2	uuu20	uu0: 1	u7S- 6	uuu01	SR10	Ol l
9 G8Clq p	- : 1	24614- 7-	2u: - 1SS6	- SSu: - 07	2004- : 72	1SR16	Ol l
9 G8Clq p	- : 2	21uS60	221S74	226S: -	2210- u	1Ru2	Ol l
9 GlCe dpe	: 2 2	6uu: :	6u- - 2	6uS04	6u42S	SR u	Ol l
9 Cr w8	: 7 2	44S21	4- 064	4- - 6-	4- 016	SR06	Ol l
9 Ct t pl	6- 2	27u1- 6	2u0- : 7	2u0774	27116-	2RSu	Ol l
TEl t lCl dpe	1: 6 1	uS7- 0	u2771	u12- u	u1022	1R 6	Ol l
TEl t lCl dpe	1: 6 2	- - 2: 1	- 27u1	- - 07-	- - - 42	1R24	Ol l
Ulr dpe	164 1	62Suu	62604	62766	62: 06	SR01	Ol l
Ulr dpe	164 2	24710	24606	24: S7	240S1	SRu-	Ol l
HwnC8q dpe	16S 1	0S11u	0S66-	67u66	0S216	SR u	Ol l
HwnC8q dpe	16S 2	- - : - 2	- 247-	- 1664	- 2: 6-	2Ru0	Ol l
h C8e dpe	16: 1	1S0u: 062	1S: 2u7u0	1S: u0- S-	1S6- 4S10	1R20	Ol l
h C8e dpe	16: 2	- 722u01	427S: 60	4- S40: -	41020- S	: R17	Ol l
& ndpe	11: 1	0uS: S7u	0- : 7704	04: : 421	0: 4S164	- R11	Ol l
& ndpe	11: 2	u0- u70	767477	701S10	7- u1- 0	: R7-	Ol l
&C.	: 4 2	- 2uS- 7-	- 2S- u4:	- 2- 161u	- 2- u617	1R2S	Ol l
&C.	: 6 2	: u- SSS07	: u76- - 44	: 67012u:	: uS0u2- 6	1R0:	Ol l
&C.	: 0 2	1402: - :	1: - S0S-	14: 10: -	14u4770	2R06	Ol l
KlEt iC.	u- 1	- 47	- 61	- - 7	- : S	- R2-	Ol l
Lpwn	2S6 1	4Su46- 7	41060S4	41S7S41	412- 461	1R16	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 - 447 S:	&l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	T8piqC. JMwOlClJa	1
TwipJAJcqe pJdOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMt8pJmwe pJa	140d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S0 1	- - 422u:	- 4S: 72:	- - 01- 64	- - 0- 171	SR74	Ol l
Lpwn	2Su 1	1: 0: 406S	1: uu4741	1: 6717u0	1: 0002- S	SR62	Ol l
LqiGdpe	6 1	262: 6- 1	26: 166-	261SS2-	26271S:	SRuS	Ol l
y wg. pl dpe	24 2	12- : 42:	12S6110	117062:	121- S: 6	1R6-	Ol l
y w. gw. pl p	: : 2	121- 1u-	11u164S	1107: S:	117144-	1R u	Ol l
y C8Er np. be	74 1	2622:	2601S	267- :	2662-	1R 6	Ol l
y C8Er np. be	7: 1	14141	14- : S	14- 71	14274	SR74	Ol l
y C8Er np. be	76 1	1u201	17S- u	1u4- u	1u: u2	2R10	Ol l
y C8Er np. be	70 1	uu7:	7- 4:	740S	72- 0	- R2u	Ol l
y C8Er np. be	7u 1	220: -	227: -	226S2	22067	SR00	Ol l
mpOnEe dpe	1: S 1	1- u6S-	1424uu	1- 71- 6	14SS06	1R S	Ol l
mpOnEe dpe	1: S 2	41440	41S7-	4S- 74	4S70u	1R 1	Ol l
mqOkp8	6S 2	2: 2: 6	2: - 6-	240- 2	2: 110	1R 4	Ol l
NGOl t GOlbl	- 1 2	u12u	0474	0: S2	00Su	4R02	Ol l
NOiwl l dpe	- 7 2	: 42222	: 26166	: - 2- 71	: - - : 7-	1R 2	Ol l
F GOndpe	1S- 1	00471u:	061u2: S	046: 627	0611S21	1Ru6	Ol l
F GOndpe	1S- 2	276uu26	- 2000- -	- - uu4S-	- 2116: 4	6R00	Ol l
DOw. ndpe	4: 1	: S022: 0	476u- 02	474S26S	477- 6- S	1R 7	Ol l
DOw. ndpe	4: 2	1- - 67-	14474u	146u77	141u46	: RS-	Ol l
Dp8p. dpe	u2 1	167	2S2	20S	214	24R12	Ol l
Dp8p. dpe	00 2	16S	1: S	1: -	1: 4	- R S	Ol l
Dp8p. dpe	0u 2	141	126	121	127	uRS:	Ol l
Dq8qC.	2u 1	144u1020	14uS: 7: 2	1462S44-	146- 6S41	1R11	Ol l
Dq8vpl	1S0 1	7712	1SS07	1SS: 4	1SS1:	SR7S	Ol l
Dq8vpl	1S7 1	74u0	1S2- 0	704:	7u2-	- Ru	Ol l
DOndpe	2- 2	1: 2S07	14021-	14u14S	147144	1R0-	Ol l
DilC. idpe	u6 1	6u- S: 0	6u: - 00	661: 6S	60666:	1R74	Ol l
DilC. idpe	uu 1	61u4611	6170042	6S471- 7	614- u- S	1R 4	Ol l
Db8bl	- 4 1	- 41- 14	- 401: :	- 4u: 2S	- 4: 66-	1R11	Ol l
cplr dpe	1: 7 1	111S0S70	1S6- 1464	1S67- u: u	1Su1SuS6	2R 7	Ol l
cplr dpe	1: 7 2	- 6744: u	42- 4267	4- S4: u1	4S00067	uR17	Ol l
cGw8pe	2S- 1	- S60	2uS7	2642	2u- 7	0R 4	Ol l
cGw8pe	2S: 1	626u	6667	6: u:	6: S0	- R24	Ol l
cq	11u 1	uu0- S	727u-	7S: 42	7S0: 1	2R :	Ol l
cqiw. dpe	40 1	411u6u	41622S	410146	41: S0u	SR6u	Ol l
5 lw. dpe	2- u 1	02: 71	0: u44	0- S- :	0- u2-	2R 7	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 - 447 S:	& l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	T qbiqC. JMwOlClJa	1
TwipJAJcqe pJdOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMqbJmwe pJa	140d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Vw. wndpe	: 1 2	714: 0	7Su46	u742S	7S: 04	1R1:	Qtl
Yiiplr dpe	102 1	174S6	177S0	1740-	17: 7:	1R7	Qtl
Yiiplr dpe	102 2	7- 2S	u072	7114	7S0:	2R7-	Qtl
Yiiplr dpe	106 1	1- 4: 0	14216	1- 624	1- 066	2R7S	Qtl
Yiiplr dpe	106 2	16221	102- 4	104S6	167: 4	- R0u	Qtl
Yiildpe	u7 1	1: 1- 2S00	146: 46u6	14- u4264	1402- 606	2R0	Qtl
Yiildpe	u7 2	1- 0- S2u	14: 0- 40	1406u42	14- : 0- 7	- Ru4	Qtl
Zq O	66 2	- - 74S1	- 2707u	- - S: - S	- - - 24-	1R6S	Qtl
ZdOC. dpe	7S 1	47: 64	477Su	4u74:	47402	SR7	Qtl
ZdOC. dpe	71 1	111uu	11422	11S- S	1121-	1R06	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN4	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdP:usb r:J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	20 2	0N16hS	00NN72	007N17	0NS12S	SM1N	dDw
qCTb nCE	121 1	h24-	h- Nh	h2h1	h27-	1M1S	dDw
qpwr Ccd	0h 2	6672	6N44	6hN6	60SN	1M7-	dDw
Bspcmb	1- h 1	6S- 4N7	6SS417	hNN04S	h70h47	1M1S	dDw
Bspcmb	1- 0 1	1S01N72	1S41740	1S61Sh6	1ShN27N	1M4-	dDw
Br pEPRmb	7 1	- 212	- 4Nh	- 460	- - NN	4M1S	dDw
Bcvb mTG	2S7 1	01h676-	0272211	01- 7412	017617h	1M16	dDw
Bcvb mTG	2S7 2	- - 6- 2- 6	- 2N7h74	- - 6NhhN	- - 4S46-	1M2	dDw
Bpmb cOr	N1 1	N0- 6	712S	7N4h	72- 4	6M1S	dDw
5 sob cmb	1SN 1	227	- 21	2- N	26-	17M1	dDw
5 sob cmb	1S6 1	4hS1	4- 6N	42S1	4- h6	- M4h	dDw
5 sob cmb	111 1	20S2	2712	2060	2074	- NMh	dDw
5 sPdcmb	4- 1	4h0NSS	4h66- 7	4470h1	4h40- S	SM76	dDw
5 sPdcmb	44 1	060S4S0	0044204	0hShh- 0	064SS02	1M6S	dDw
5 spenC	12 1	- 0- 6N- 7	- N407h-	- N- 1- 20	- NSh- 0-	1M10	dDw
5 spenC	12 2	4- 7hN	4hSN6	4h0NS	44741	2N8h	dDw
5 GPmpcOr	- h 1	241- 4h- 6	20N- - N6S	27N62470	20206764	1SM6h	dDw
5 GPmpcOr	- h 2	211S46	2100h-	222447	210SN2	2M64	dDw
5 Gpmb cmb	h2 2	4h7SS	4hS21	4hh12	4h40N	SM70	dDw
5 nesPT	h7 2	4- 14h	42426	4- S- 2	42N6N	SM7S	dDw
5 nDDr p	6- 2	1h6S- h	1h02SS	1hh1hN	1h61- 1	SM66	dDw
&EwDpnwcmb	1h6 1	N- N- 0	N21S-	N2N66	N27- h	1N8h	dDw
&EwDpnwcmb	1h6 2	- - 646	- 4hS4	- 41S4	- 4SNh	1M26	dDw
Fpecmb	164 1	6h476	6- S06	64706	64h16	1M70	dDw
Fpecmb	164 2	2hh- h	2h2h0	2h120	2h- S6	SM12	dDw
HsonPCcmb	16S 1	027hS	04424	024- 7	0- 201	1M41	dDw
HsonPCcmb	16S 2	- 4Sh4	- - 44h	- 4- - N	- - 74h	1M4	dDw
y nPb cmb	16h 1	1S16h606	1S2h26S6	1S- 6S626	1S2h76- 6	SM7h	dDw
y nPb cmb	16h 2	4- hhN20	427S- N2	426472N	4- S- 012	1N87	dDw
tCocmb	11h 1	01h4- hS	047274N	0hSh44N	0- N4247	2M0S	dDw
tCocmb	11h 2	76N1- 1	76Nh0-	7h76N-	76h46-	SM12	dDw
tpnC	h4 2	2NN- 716	27S6hN-	2Nh21S7	2NNSN0S	SM7h	dDw
tpnC	h6 2	h12N6- SN	hS44- 102	hS06227N	hSN- Sh7-	SMN4	dDw
tpnC	h0 2	12247N-	12S- - h7	12SSh21	12S7621	1M1	dDw
KpEDTnC	N- 1	- h4	- 40	- - 0	- 46	2M0	dDw
Lr so	2S6 1	1Sh07N7	1S44460	1S42714	1S4N4h6	SM07	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or TusbR:J	8 N
5 PR CTI sb DPP:t&:J	9 y SUN4	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdP:usb r:J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S0 1	N67- Nh	N64h4h	Nh74N0	N64402	SM10	dDw
Lr so	2SN 1	4- 721hS	4- 0h702	426h760	4- 44670	1M1N	dDw
LdTGmb	6 1	26h- - S1	2641- 0h	26- 2142	2642202	SM4S	dDw
9 sgOr wcmb	24 2	N26161	N27S- N	N- - S11	N274S-	SM41	dDw
9 sOgsOr wr	hh 2	NN1201	N0- S00	N0- 7NN	N06112	SM11	dDw
9 nPEeor Omb	74 1	16N- 6	16- 7-	10161	16070	2M27	dDw
9 nPEeor Omb	7h 1	70N0	7NS4	772S	7N- 0	SM04	dDw
9 nPEeor Omb	76 1	12- N7	1- 17S	1267N	120h7	- M10	dDw
9 nPEeor Omb	70 1	62h2	6h1N	6h6S	644-	2M6S	dDw
9 nPEeor Omb	7N 1	1hN6N	1h6h1	16- 6S	1h76S	2M2N	dDw
u r noEb cmb	1hS 1	1402h-	1401Sh	14- N47	146S67	1M12	dDw
u r noEb cmb	1hS 2	4- 7S7	4- - N-	42N62	4- - Nh	1M21	dDw
u cdkr P	6S 2	26NN7	20SN-	261- 0	260S-	1MM0	dDw
8 GhwDGhpmw	- 1 2	- 0N4	4S- 4	- 642	- N2S	hM17	dDw
8 nTswwcmb	- 7 2	4- 02- 0	4260S7	4- - 0N-	4- 2h06	1M24	dDw
. Ghocmb	1S- 1	017- 1NS	027142h	04ShN61	0276N22	1M46	dDw
. Ghocmb	1S- 2	- 4S- 14S	- 27N4S4	- 27S0hh	- - - S066	1MM7	dDw
I dsCocmb	4h 1	4N1N7S2	4000S6h	4Nh1447	4N1hNSh	SM00	dDw
I dsCocmb	4h 2	14N147	14N06N	1406NS	14N177	SM10	dDw
I r PPCcmb	N2 1	1h6	1- 4	1- 1	14S	7MM1	dDw
I r PPCcmb	00 2	1h0	21-	140	102	2SMMN	dDw
I r PPCcmb	0N 2	11h	114	11N	116	1MMS	dDw
I dPdnC	2N 1	16S17h42	1611100-	1h0746SN	1h70h- SN	1MS2	dDw
I dPr p	1S0 1	4426	4606	4- h1	44N4	- MMS	dDw
I dPr p	1S7 1	44N4	4110	4110	424S	4M17	dDw
I nocmb	2- 2	02S12	0- Nh-	0- 2N4	0- ShS	1M27	dDw
I TpnCTcmb	N6 1	- h11h0	- h- SN-	- h1h01	- h17- 0	SM27	dDw
I TpnCTcmb	NN 1	- 2- 014h	- 20h4Sh	- 24- 226	- 2h1726	SM0-	dDw
I mPPmp	- 4 1	272S71	272hNS	27h1N6	27- 2N6	SM10	dDw
Ar pecmb	1h7 1	1S1- 2NS-	1S4607S7	1S2h6- 4S	1S2Nh6N4	1M6h	dDw
Ar pecmb	1h7 2	41hh610	41S1S71	422S210	41hN70h	1M4-	dDw
AGsPPcmb	2S- 1	2NN4	2N- 4	27- 4	2NN4	1M0-	dDw
AGsPPcmb	2Sh 1	0S20	6N- h	666S	6N41	2M6N	dDw
AdC	11N 1	- NN7N	4S24-	- 7N- 4	- 76hN	1M04	dDw
AdSCcmb	40 1	11NS67	11N7h7	114S74	110S4S	2M21	dDw
RpsCcmb	2- N 1	47hh6	hS01S	4707N	hSS21	1M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN4	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdP:u sb r :J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h1 2	Nh41-	N206N	N42- 6	N41- 7	1M1N	dDw
YTTr pemb	102 1	2S4hN	1N- 6-	17h6h	17462	hM4S	dDw
YTTr pemb	102 2	N6S7	N70h	N772	NNh7	2M4h	dDw
YTTr pemb	106 1	127N2	1- 1- 2	1- 447	1- 1N0	1MM1	dDw
YTTr pemb	106 2	10- 0-	1004S	10N76	10667	1M12	dDw
YTTpomb	N7 1	142071h2	142N1421	14h14- 06	14- hN- 16	SM74	dDw
YTTpomb	N7 2	14h1h67	14h2247	140SS0h	14h0764	SM02	dDw
ZdCd	66 2	71- - 6	72NNh	72174	721- N	SMM4	dDw
ZqpdnComb	7S 1	27h6h	- Sh42	27741	- SS16	1M64	dDw
ZqpdnComb	71 1	0Sh2	66Nh	6620	60NN	- M4S	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S0	tOwTpmb Or TusbR:J	8 N
5 PR CTI sb DPP:t&:J	9 y SUNh	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	20 2	4h2672	447440	440471	447N00	SM1N	dDw
qCTb nCE	121 1	- 6S7	- 10h	- - hS	- - 0N	6M46	dDw
qpwr Ccl	0h 2	2S67	2S60	2SN6	2S04	SM1S	dDw
Bspcmb	1- h 1	22NhSh	2- 077N	2- 4060	2- - 0h0	2N36	dDw
Bspcmb	1- 0 1	411S47	411671	41NN2h	41- Nhh	1N34	dDw
Br pEPRmb	7 1	12- 2	1- - 1	122h	126-	4M0S	dDw
Bcwb mTG	2S7 1	6N40762	67hSSN-	0SN611-	6761- N6	1M02	dDw
Bcwb mTG	2S7 2	- - 16h2S	- - h1h60	- - 61h6S	- - 4- 216	SM01	dDw
Bpmb cOr	N1 1	0S- h	0- h2	0274	0220	2M-	dDw
5 sob cmb	1SN 1	22h	10h	227	21S	14M0	dDw
5 sob cmb	1S6 1	- 0N4	- h72	- 7N4	- 0N0	hM10	dDw
5 sob cmb	111 1	26- 4	2004	2hS1	26- 6	hM17	dDw
5 sPlcmb	4- 1	401016	40644-	402744	40- 0S1	SM12	dDw
5 sPlcmb	44 1	NS6N7h1	N24h- 1h	0007- N7	NS- 121N	2M7-	dDw
5 spenC	12 1	602h- 6h	606hSS-	6N0- 0S1	60NNS2-	1M1-	dDw
5 spenC	12 2	NS- 2N	NS064	NSNN7	NS66S	SM10	dDw
5 GPhpcOr	- h 1	2- N0h- 27	20NN207h	- S- 76h- h	20- N4NN6	12N31	dDw
5 GPhpcOr	- h 2	214216	21N2N6	22110S	210N7S	1M6S	dDw
5 Gpmb cmb	h2 2	- SS4h	- S2- 2	2702N	- SSS1	SMNh	dDw
5 nesPT	h7 2	261N0	20- 2S	2660h	26020	2M12	dDw
5 nDDr p	6- 2	6242S	61466	61- 1N	610- h	SM70	dDw
&EwDpnwcmb	1h6 1	- - - 7-	- 4S20	- h1hh	- 4172	2M61	dDw
&EwDpnwcmb	1h6 2	14SS4	14- 11	141S4	1414S	1M11	dDw
Fpecmb	164 1	26- 00	20001	2N222	204h0	- M1S	dDw
Fpecmb	164 2	11- 2h	114h2	1SNNh	1122S	2M6h	dDw
HsonPCcmb	16S 1	- S11S	- 101-	- 2016	- 1h1-	4M10	dDw
HsonPCcmb	16S 2	140hh	1470N	1422N	146h4	2M4-	dDw
y nPb cmb	16h 1	70S2hS1	77Nh7- 0	1S222402	770S- S-	2M61	dDw
y nPb cmb	16h 2	42NSh- 0	4- S2761	417SS44	42h0N40	1M4S	dDw
tCocmb	11h 1	670- 21S	02016N-	04S1S- N	021h- 1S	- N34	dDw
tCocmb	11h 2	762102	7027- h	7h- 10h	762061	1N3-	dDw
tpnC	h4 2	2S1SN7-	2S1N4- N	1760N64	1777S6h	1M16	dDw
tpnC	h6 2	- 6160- 4h	- 61- S177	- h- 772SS	- hN7N71h	1M21	dDw
tpnC	h0 2	N40S26	Nh10Nh	N- 20- S	N4- N40	1M1N	dDw
KpEDTnC	N- 1	260	260	- 14	2N-	7M44	dDw
Lr so	2S6 1	1N6SS2	1N4NSS	1N- 014	1N4N- N	SM02	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S0	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUNh	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	1407S-	1477S-	1h1N1N	147N0h	1M1	dDw
Lr so	2SN 1	0S06- 1	011h7h	01471N	011- N2	SM1	dDw
LdTGmb	6 1	2h1hN01	264S24N	261- 6h-	2hN7724	2M-	dDw
9 sgOr wmb	24 2	1- 6h704	1- - 7- 20	1- - N7S4	1- 4NS6N	1Mh	dDw
9 sOgsOr wr	hh 2	- S0h0N	- S02N1	- S220N	- Sh012	SM0	dDw
9 nPEeor Omb	74 1	1S4h4	1S1h4	1S207	1S276	1M0	dDw
9 nPEeor Omb	7h 1	61Nh	62Nh	66Nh	6- Nh	4Mh	dDw
9 nPEeor Omb	76 1	0h20	0044	0061	0600	1MS	dDw
9 nPEeor Omb	70 1	- 0h7	- 410	- hS7	- h62	4M0	dDw
9 nPEeor Omb	7N 1	7- 2S	7hh4	702S	7h- 1	2M1	dDw
u r noEb omb	1hS 1	h4702	hhS02	h4N- 7	h4761	SM1	dDw
u r noEb omb	1hS 2	16- 1S	1617S	16- 6S	162N0	SM4	dDw
u dkr P	6S 2	1Nh4h	17206	172- 6	17S17	2M6	dDw
8 GhwDGhpmw	- 1 2	44- 4	4h6N	4NN4	4627	hMS	dDw
8 nTswwmb	- 7 2	- S10N7	27740h	277N1S	- SS- hN	SM2	dDw
. Ghomb	1S- 1	67607- 0	0SNhSS7	0- 2S162	0124- 67	2M2	dDw
. Ghomb	1S- 2	- - - 1704	- - 41h66	- - h0161	- - 4- h60	SMN	dDw
I dsComb	4h 1	4621N20	4626h14	4h0647h	46SN207	SMS	dDw
I dsComb	4h 2	14- hh0	14h2hS	14N11h	14h641	1MN	dDw
I r PCmb	N2 1	14h	166	71	1- 4	2NM1	dDw
I r PCmb	00 2	60	0-	- -	hN	- 0M7	dDw
I r PCmb	0N 2	h2	61	h-	hh	NM1	dDw
I dPdnC	2N 1	12S22Sh4	12Sh0N24	12S2N774	12S- 627S	SM6	dDw
I dPr p	1S0 1	220h	2610	2410	24- 6	0MSh	dDw
I dPr p	1S7 1	2Sh7	2SSS	2S72	2ShS	2M6	dDw
I nomb	2- 2	4h7- 1	4h1- 0	4h127	4h- 77	1MS2	dDw
I TpnCTmb	N6 1	107426	10062N	100h06	10N21S	SM7	dDw
I TpnCTmb	NN 1	1606S40	16h2NS-	16SN002	164hN04	2MSN	dDw
I mPmp	- 4 1	27NhN0	- Sh- SS	- S612N	- S- - - 7	1M6	dDw
Ar pemb	1h7 1	7N6SN0S	1S104S- 6	1S611hSS	1S21h467	- M7	dDw
Ar pemb	1h7 2	414hSh2	4212270	41SShNS	41h264-	1Mh	dDw
AGsPmb	2S- 1	2S10	2S42	21hS	2S0S	- M-	dDw
AGsPmb	2Sh 1	4N- 4	4- 26	4N06	4607	6Mh	dDw
AdC	11N 1	44- 4	4242	4- 7-	4- h6	2M1	dDw
AdSomb	40 1	6- N7-	6- 6SN	6- 06N	6- 0h6	SM2	dDw
RpsOmb	2- N 1	44174	442S-	44722	4444S	SM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 447 S0	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPr:t&:J	9 y SUNh	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdPr:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h1 2	hS00S	h1hh2	hS744	h1SN7	SMMS	dDw
YTTr peomb	102 1	N011	N- 4h	N661	Nh02	2M12	dDw
YTTr peomb	102 2	- 07h	4127	- N4S	- 721	4M12	dDw
YTTr peomb	106 1	6- 00	66S2	6Nh2	661S	- MdS	dDw
YTTr peomb	106 2	14S04	142SN	14440	1424-	1M-	dDw
YTTpomb	N7 1	1- h7702h	1- h6- 406	1- N- 0711	1- 660S- 0	1N87	dDw
YTTpomb	N7 2	1- 2- 164	1- 12202	1270NN0	1- 111SN	SM70	dDw
ZdCd	66 2	hSN20	h1- h6	hS426	hSN0S	SM72	dDw
ZqpdnComb	7S 1	1N7NN	2S1h0	1N76-	17- 0S	- M12	dDw
ZqpdnComb	71 1	4h1N	41S1	42h1	427S	4M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 S:	tCl Tpmb Cr TLu wb r Ja	N:
9 8r CTL wo D8 Jt&Jal	y h SM 6	&8mTmCJMwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb cOcmb	20 2	0: 6: : .	: S- . 64	0: 6: 00	072442	1R22	dDI
qCTb nCE	121 1	- 760	4210	- 706	4S. -	- R S	dDI
qpl r Ccl	0. 2	410-	42. 6	4274	4241	1R46	dDI
Bwpcmb	1- . 1	4- 2: 76	4- . S00	4. S. 72	4- 7. 21	2R2S	dDI
Bwpcmb	1- 0 1	0. : . 02	000- 0:	07- 2: 0	006412	2R24	dDI
Br pE8cmb	7 1	2214	2271	2261	22. .	1R0-	dDI
Bdl b mTG	2S7 1	066. 24S	01: 720S	62S242-	0S1: 70:	1SR6-	dDI
Bdl b mTG	2S7 2	- 27660S	- 14. - 46	- 2S7. S0	- 210104	2R 6	dDI
Bpmb cOr	: 1 1	: . : 6	: 061	: 1: 6	: . 11	- R40	dDI
9 wob cmb	1S: 1	2: -	- S:	276	276	4R2-	dDI
9 wob cmb	1S6 1	47. 7	46- 4	41S7	4. 6:	7R 7	dDI
9 wob cmb	111 1	41: 2	4S: 2	42: 4	41: 2	2R42	dDI
9 w8lcmb	4- 1	1S- - 14:	1S. 77- 1	1S. 7: . 1	1S. S700	1R40	dDI
9 w8lcmb	44 1	10- 4S1S7	107064- -	10: 10: 24	100114. .	1R 0	dDI
9 wpenC	12 1	4. S14S4	4007201	40: - 406	46: : S. 1	- R4.	dDI
9 wpenC	12 2	. 0602	. 0161	. . S4.	. 6626	2R46	dDI
9 G8npcOr	- . 1	2- 1: . S01	202240- 2	27- 7- 644	266S1147	11R .	dDI
9 G8npcOr	- . 2	21- 1- 4	217S1-	222: : S	21: - 4-	2R2.	dDI
9 Gpmb cmb	. 2 2	. 61: S	. . 6: 1	. . 16-	. . 60.	SR71	dDI
9 new8T	. 7 2	. 4- 2-	. - 227	. 2: : 1	. - 40:	1R41	dDI
9 nDDr p	6- 2	707. 1	77- . 2	77. - 6	7: 746	SR:	dDI
&El Dpnl cmb	1. 6 1	. 6174	. : 1- 6	. 06SS	. 0- 1S	1R0.	dDI
&El Dpnl cmb	1. 6 2	240: 6	2- 7. :	2- : - .	2417-	2R14	dDI
Upecmb	164 1	46164	460S:	47160	40- 46	- R :	dDI
Upecmb	164 2	17141	1: 7: 0	1: . . S	1: : 72	1R62	dDI
Hwon8Ccmb	16S 1	. 272-	. 1416	. - 700	. 2002	2R44	dDI
Hwon8Ccmb	16S 2	2. 1. 0	24. 47	247. S	24: : 6	1R24	dDI
h n8b cmb	16. 1	11404. 2:	1S2: 4727	: 7S- S. 6	1S22S: - :	12R 7	dDI
h n8b cmb	16. 2	42: 6244	4S1S26S	4260706	41: : 16S	- R67	dDI
tCocmb	11. 1	: - : - 0. :	0410706	6. 6: 40:	04. 60- 0	12R1:	dDI
tCocmb	11. 2	766. - -	72S427	74: - 10	74. S7-	2R46	dDI
tpnC	. 4 2	- 46S2. .	- 467: 4-	- - 0S: : 4	- 4- - 661	1R 7	dDI
tpnC	. 6 2	62S2141.	62- : . 247	6222SS- :	622S: 7SS	SR27	dDI
tpnC	. 0 2	16S474:	1. 71. 04	1. : S07-	1. 724- :	SR06	dDI
KpEDTnC	: - 1	- - .	- 11	- 27	- 2.	- R07	dDI
Lr wo	2S6 1	- 2S4. 7	- 2S4- .	- 2627-	- 22- 76	1RS.	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N:
9 8r CTJ wb D8 Jt&JaJ	y h SM 6	&c8mTcnCJMwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	261S: 4	20S16S	20107:	2606: S	2R16	dDI
Lr wo	2S: 1	122. S: -	12. . - 4-	126: 2. :	1247. 61	1R30	dDI
LcTGmb	6 1	207: 211	26- . 71:	2- 60604	26SS6S1	: R 6	dDI
y wgCr l cmb	24 2	224- 2- 6	2224- : 4	22S744:	222. 6: 7	SR06	dDI
y wCgwCr l r	. . 2	. 67044	. 01207	. . : 12S	. 66- : 1	1R20	dDI
y n8Eeor Cmb	74 1	1- 17S	1- - 7:	1- 46.	1- - . 1	1RS:	dDI
y n8Eeor Cmb	7. 1	70: 0	7: 4.	1SS07	77S4	1R 6	dDI
y n8Eeor Cmb	76 1	11022	11: : S	121: 1	1172:	1R7.	dDI
y n8Eeor Cmb	70 1	. : 7-	61. 2	6420	61. 0	4R -	dDI
y n8Eeor Cmb	7: 1	1. 4S7	16200	1. : 1:	1. : - 4	2R04	dDI
u r noEb cmb	1. S 1	717: :	7S12:	74- 2-	72146	2R2:	dDI
u r noEb cmb	1. S 2	206S2	20201	20. 0:	204: 4	SR60	dDI
u cdkr 8	6S 2	- 6: S4	- . : . :	- . - 10	- . 77-	2RS7	dDI
NGhl DGhpml	- 1 2	4410	4- - 4	4460	44S6	1R -	dDI
NnTwl l cmb	- 7 2	- . 040-	- . 7: 72	- . - : 00	- . 0S: 1	SR .	dDI
F Ghocmb	1S- 1	: S76- 61	0- S1. 04	6- 6774:	02. . 761	11R71	dDI
F Ghocmb	1S- 2	- - 2S- . 2	- S71S- S	- 2S420-	- 2S. 217	- R :	dDI
I dwCocmb	4. 1	. 46- 7: S	4: 01. 46	4S77S06	4: 11. - 4	14R22	dDI
I dwCocmb	4. 2	140021	14S. : 1	144260	14417S	2R4:	dDI
I r 8 Ccmb	: 2 1	120	162	211	160	2. R1:	dDI
I r 8 Ccmb	00 2	00	110	1- -	1S7	26R0.	dDI
I r 8 Ccmb	0: 2	: 6	04	00	07	0R7S	dDI
I c&dnC	2: 1	112S4: . 7	1141. : : -	11. - 061-	11- : 611:	1R4:	dDI
I c&vr p	1S0 1	4226	4- 06	4- 10	4- S6	1R06	dDI
I c&vr p	1S7 1	4- 7-	4- 26	4S26	424:	4R6S	dDI
I nocmb	2- 2	: 6. S6	: 6S07	: . : 67	: 61. 1	SR :	dDI
I TpnCTcmb	: 6 1	- - 24- 0	- - 7. - 4	- 421S0	- - : S26	1R4:	dDI
I TpnCTcmb	: : 1	- S: 4- : 4	- 11. - 40	- 1. 7- 4-	- 117671	1R21	dDI
I m8mp	- 4 1	270: 0.	- S610:	- 1- - 4-	- S. 07:	2R -	dDI
Ar pecmb	1. 7 1	110. : : 14	1S- 2: 126	7S64764	1S- : - 76:	12R7:	dDI
Ar pecmb	1. 7 2	410S6- 6	- 76- 016	4S7. 10:	4S06. 1S	2R 0	dDI
AGw8cmb	2S- 1	- . - 4	- . 42	- 406	- . 10	1RS-	dDI
AGw8cmb	2S. 1	: 12:	: . : 6	: 40:	: - 70	2R .	dDI
AcC	11: 1	0044	: S. -	: 2- 6	: S11	- R1S	dDI
AcTwCcmb	40 1	62. 62	6410:	664- :	64- 72	- RS2	dDI
5 pwCcmb	2- : 1	6: 661	02- - 1	02121	01S- :	2R7S	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N:
9 8r CTJ wb D8 Jt&JaJ	y h SM 6	&8mTmCJMwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	. 1 2	726. 2	72. 6S	7- 12S	72000	SR 2	dDI
YTTr pecmb	102 1	1- 004	141: -	14672	14216	- R2-	dDI
YTTr pecmb	102 2	6- 6:	60S2	6- 46	6402	- RS:	dDI
YTTr pecmb	106 1	1S107	1S476	1S2. 4	1S- 1S	1R61	dDI
YTTr pecmb	106 2	1. 46.	1. S- 1	147S7	1. 1- .	1R7-	dDI
YTTpcmb	: 7 1	1. 761: 7.	1412S: SS	121- - 27-	14S01776	1- R61	dDI
YTTpcmb	: 7 2	14- . . S0	1- 47. S-	14S4S: 4	1- 76- 6.	- R12	dDI
ZdCd	66 2	66622	60: - .	66607	60S46	1RS2	dDI
ZqpdnCcmb	7S 1	2S6: -	211S:	2S1S0	2S6- -	2R44	dDI
ZqpdnCcmb	71 1	44: 4	. S: 4	. 126	4: 7:	0R -	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S20	T&piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwR&p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
d8be qFdpe	20 2	21S2a1S	2S62220	2S7Ua61	2S60S77	1M67	Ol l
dFiqe . Fh	121 1	2641a04	26u61aa	207SU64	26u6246	1M6U	Ol l
dIl pFqO	0U 2	600u2	6Uu1S	60246	66a46	1MU2	Ol l
Bwldpe	17U 1	2a4S1uU	2aa6uSU	7S20102	2auuSU4	1M4u	Ol l
Bwldpe	170 1	U126S6S	U1a4S22	U2701Sa	U1uU07S	1M8u	Ol l
Bplh8&pe	a 1	6S6ua0	61aa7S	61uUU6	61U12u	1M16	Ol l
Bdqe biE	2Sa 1	UaU4S12	672U602	6716u1u	61auu74	7M42	Ol l
Bdqe biE	2Sa 2	2au2472	2a62S0S	2aU24aS	2a6U664	SMU2	Ol l
Bl. e qFp	u1 1	4742	4226	47Sa	42a2	1M4S	Ol l
3 wne dpe	1Su 1	U2470	U771U	U4u74	U7U2a	2M20	Ol l
3 wne dpe	1S6 1	07au2	0U1u1	0uuSS	0Uauu	7M7S	Ol l
3 wne dpe	111 1	62S1u4	67UuS2	64S4ua	6721Uu	1M0u	Ol l
3 w&Qdpe	47 1	7ua002u	7aU26Ua	7aa02U4	7a4a214	1M26	Ol l
3 w&Qdpe	44 1	6211U0Su	62u4U012	62U24SUU	624aU1Uu	SMUa	Ol l
3 wlr . F	12 1	246U614	2U2Ua7u	261S400	2U74SSa	2M10	Ol l
3 wlr . F	12 2	74S4u	7262u	77aau	77UUu	2M4S	Ol l
3 E8 lqFp	7U 1	1U4U220	1US6uS4	1U174uS	1U21u70	1M7U	Ol l
3 E8 lqFp	7U 2	1S470	au0a	a02a	1SS1U	7M07	Ol l
3 El. e dpe	U2 2	0247uu	01114u	01U7Sa	016a4u	SM44	Ol l
3 . r w8	Ua 2	120u2a2	12UUuua	12u4224	1202uS2	1M10	Ol l
3 . t t pl	67 2	1S6aUU77	1S0S6au4	1S6u6uau	1S6a6401	SM3a	Ol l
Thl t l. l dpe	1U6 1	u10	6u7	0SS	077	aM41	Ol l
Thl t l. l dpe	1U6 2	7SS	2u0	727	7S7	6M12	Ol l
Glr dpe	164 1	10U	2SS	2SS	1a2	0MU7	Ol l
Glr dpe	164 2	117	US	6S	04	4UM07	Ol l
Hwn. &qFdpe	16S 1	0a2	u77	u10	u14	2MUu	Ol l
Hwn. &qFdpe	16S 2	4u0	US7	400	4ua	2M06	Ol l
K. &e dpe	16U 1	a141146	aUU4120	a6u4u40	a46SS4S	7M3S	Ol l
K. &e dpe	16U 2	41S76ua	4SS762a	4S2770U	4S47U64	1M71	Ol l
&Fndpe	11U 1	6744uU0	6U11241	664aU6a	6US1uua	2M7U	Ol l
&Fndpe	11U 2	uaU0S7	u0172u	uu4u00	uu7a6a	1M7u	Ol l
&. F	U4 2	u4S0677	u72au6u	u41u11u	u7uU2S6	SMU0	Ol l
&. F	U6 2	1U2a01ua2	1U4461a0S	1U20u6SSa	1U74S6624	SM0S	Ol l
&. F	U0 2	7a0U0U6	7u04US7	7a620U2	7a7060S	1M4S	Ol l
glht i. F	u7 1	2U0	21U	240	24S	aM26	Ol l
Lpwn	2S6 1	126U412u	12U02410	120S60Su	1264441u	SMU4	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S20	T &piq F:RwO. I:J	1
Twip:A:cœ p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwR&p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
Lpwn	2S0 1	1Sa010a7	1SuuU227	1S04Uaa6	1Su60601	1N3U	Ol l
Lpwn	2Su 1	USSU7040	US2U4U20	US4U0u62	US2UU70a	SM4S	Ol l
LqiEdpe	6 1	210u472	2711uu0	22uSS44	22U60uu	7N3a	Ol l
9 wkFpl dpe	24 2	2a1U4770	2u010600	2a2u46u7	2aSU2272	1N32	Ol l
9 wFkwFpl p	UU 2	7u766u1	7u46UUU	7u71S07	7u7u1S7	SM2S	Ol l
9 . 8hr npFbe	a4 1	auS20SU	1SS74u42	auu1076	aaS642u	1M1a	Ol l
9 . 8hr npFbe	aU 1	142047S1	14U11S14	14U12a72	1447204a	SM4U	Ol l
9 . 8hr npFbe	a6 1	1UU4176a	16S6a44u	1616u44u	1Ua26422	2M12	Ol l
9 . 8hr npFbe	a0 1	u6074US	aS462UU	a11UuuS	ua4U1aU	2M66	Ol l
9 . 8hr npFbe	au 1	22U62ua2	27124U4u	27004uu1	271U41S0	2M62	Ol l
mp. nhe dpe	1US 1	7S0	24S	7S0	2u4	17NU7	Ol l
mp. nhe dpe	1US 2	U7	67	77	US	7SNUU	Ol l
mqOvp8	6S 2	74644a	744Uu0	742162	7447aa	SM62	Ol l
NE. l t E. lbl	71 2	2S2au	1aa14	2S41U	2S2Sa	1M7S	Ol l
N. iwl l dpe	7a 2	a76a0SU	aS01aS7	aS14710	a1U1a0U	2N3u	Ol l
y E. ndpe	1S7 1	6S06107	62aUU11	67u1a46	62U121S	2NU2	Ol l
y E. ndpe	1S7 2	2a64S4u	2u66aa4	2a71u2U	2a2SaU6	1M6a	Ol l
DOwFndpe	4U 1	4Su0u4u	47U2176	472161S	42U7u6U	7M4S	Ol l
DOwFndpe	4U 2	17u214	17auUu	17U41U	170u2a	1M67	Ol l
Dp&pFdpe	u2 1	4u1S0	4u7U0	4uuS7	4u422	SM07	Ol l
Dp&pFdpe	00 2	17uS	12a0	141S	1762	4M71	Ol l
Dp&pFdpe	0u 2	4a7U	404U	4a77	4u01	2M24	Ol l
Dq&Q F	2u 1	2u1u6U17	2uuU1S41	2a10767a	2u070S6U	1M0U	Ol l
Dq&pl	1S0 1	77627a7	7U7uU77	7Uu241a	74a444u	7M77	Ol l
Dq&pl	1Sa 1	71a7762	724aU1S	7262772	727US6u	1M17	Ol l
D. ndpe	27 2	U1u26aau	US2047aS	U1u00aa0	U1726462	1M0u	Ol l
Dil. Fidpe	u6 1	1a762a2a	1a26aU2S	1a4u0SS0	1a7071U2	SNU6	Ol l
Dil. Fidpe	uu 1	16U464a4U	16ua16041	101S6642a	16u4u20SU	1M0u	Ol l
Db&bl	74 1	U67712	U60uS4	U60u74	U66710	SM46	Ol l
cplr dpe	1Ua 1	a1626au	au21UUa	a442002	a40U606	7M4a	Ol l
cplr dpe	1Ua 2	7a10167	7a11uU7	4S0106U	7a66a20	2M2a	Ol l
cEw&&pe	2S7 1	7S717S1	7SU011U	7S70071	7S42S4a	SM44	Ol l
cEw&&pe	2SU 1	0S66aa0	0S6a641	01a1Uua	01Sa4Sa	1N3S	Ol l
cqF	11u 1	22Saua0	2242264	22247u4	222UU1U	SM07	Ol l
cqwFdpe	40 1	7u4a767	7uUa46u	7u1aUU6	7u420aU	SNU4	Ol l
5 lwFdpe	27u 1	1S7uU4SU	1SU7U212	1Su12u47	1SU00u2S	2N3U	Ol l

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LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S20	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwRq8p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	U1 2	U6SU47	U6126S	UUuaS1	U6S27U	SM22	Qt l
Yiiplr dpe	102 1	210	22U	1Uu	2SS	1uM16	Qt l
Yiiplr dpe	102 2	a4	0u	u7	uU	aM46	Qt l
Yiiplr dpe	106 1	174S0	14660	14741	1417u	4M67	Qt l
Yiiplr dpe	106 2	16u44	1Ua00	161aa	1674S	2M06	Qt l
Yiildpe	ua 1	116US424	124u1164	1274u770	121Uaa0U	7M60	Qt l
Yiildpe	ua 2	1226a26	11a2462	11aaau7	12S64U0	1MUS	Qt l
ZqFO	66 2	12Uu4U7	1220S4a	124a2a7	1244a72	1M7S	Qt l
ZqlQ Fdpe	aS 1	4Uu107u	40S20U7	46uUaS2	46U60au	1M41	Qt l
ZqlQ Fdpe	a1 1	au0007	aaUa4U	1S1S2S6	aa0a04	1M14	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&nr :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maq&nr :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFUD

Parame&er	5 ass	3 Pp1	3 Pp2	3 Pp-	3 Pp5 eaC	3 Pp9 pt	RCA&s
c lumACAum	2072	2- .	1. 6	1y.	1y.	2SU1.	ql s
c C&AmnCh	12171	1Sy2	y0.	16SS	1222	20U1y	ql s
c rseCAq	0. 72	8	2	8	6	. 0U04	ql s
BarAum	1- . 71	2- -	1. 8	410	26y	4yU2	ql s
BarAum	1- 071	4. S	2. S	62.	442	42U4y	ql s
BerhlIAum	y71	186	12y	2S4	10-	22U6y	ql s
BAsmu&E	2Sy71	. . 121S8	61. 1210	6. - 2S4-	6S6. 12-	8U S	ql s
BAsmu&E	2Sy72	- 1y81- -	- 2S6060	- 160y- .	- 1ySy4.	SU64	ql s
BrnmACe	8171	42S1	41. y	4S. 1	41- 0	1U80	ql s
3 aOmAum	1S871	2.	8	- -	22	. 0U2y	ql s
3 aOmAum	1S671	2y10	- 2- 4	- Sy2	- S81	. U1.	ql s
3 aOmAum	11171	- yy	4. .	482	44.	yU4.	ql s
3 alqAum	4- 71	616	461	1S. S	0Sy	4- US4	ql s
3 alqAum	4471	48S06	4. 2S6	. 02y1	. S1y1	12U 8	ql s
3 arbnC	1271	2- . yS. .	2- 66S. 8	2- 0y268	2- 68120	SU4-	ql s
3 arbnC	1272	28028	26S24	208S2	20. 18	. USS	ql s
3 ElnrACe	- . 71	128y648	128y621	120681-	128. - 61	SU 8	ql s
3 ElnrACe	- . 72	82S-	8- 44	8- 61	8- S-	1US.	ql s
3 ErnmAum	. 272	11- 0	1140	1100	11. -	1U8S	ql s
3 nbal&	. y72	14S	6-	. -	86	. . U42	ql s
3 nI I er	6- 72	- Sy0	1y6S	188S	2- 12	2yU4-	ql s
t hsI rnsAum	1. 671	10	8	10	14	- 4U60	ql s
t hsI rnsAum	1. 672	S	S	0	2	10- U21	ql s
FrbAum	16471	. S	60	- -	. S	- - U4	ql s
FrbAum	16472	0	20	2-	1y	. 6U02	ql s
GaOnIACAum	16S71	- -	. S	60	. S	- - U4	ql s
GaOnIACAum	16S72	12-	1- 0	yS	110	2SU6S	ql s
HnImAum	16. 71	00. . 6S1	8y. y18-	y- 08- 86	86y002-	yU6y	ql s
HnImAum	16. 72	4Sy44- .	422486-	- yy. 0S.	41S. SS1	2U8S	ql s
DCOAum	11. 71	. 660411	664828S	668S01S	6- - 21- 4	yUSy	ql s
DCOAum	11. 72	y482y6	y. 6. 66	y- 10. 1	y4. . - 8	1U4	ql s
DnC	. 472	008	6y4	. 44	602	10Uy	ql s
DnC	. 672	12- - 2	6S04	1SS12	y40-	- - U4S	ql s
DnC	. 072	- 61	210	108	2. 2	- 8U6	ql s
KrhI &nC	8- 71	266	2- 0	244	24y	6US0	ql s
LeaO	2S671	21SS	16. S	2- 0-	2S41	10U8	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&nr :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maq&nr :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFUD

Parame&er	5 ass	3 Pp 1	3 Pp 2	3 Pp -	3 Pp 5 eaC	3 Pp 9 pt	RCA&s
LeaO	2S071	1061	16. 6	18y.	1001	6U06	ql s
LeaO	2S871	808.	0604	1S- 48	8y- 6	1. US-	ql s
LA&EAum	671	2Sy. 026	2- 241. 6	2- 4060-	22. . 8. 2	6U10	ql s
5 agCesAum	2472	14. S	0- -	y42	1S42	- . Uy	ql s
5 aCgaCese	. . 72	2- -	14S	1- S	168	- - Uy0	ql s
5 nIhbOeCum	y471	1842	88-	2S- 4	1. 86	- 8U8.	ql s
5 nIhbOeCum	y. 71	18y2	1142	26Sy	1881	- yUS1	ql s
5 nIhbOeCum	y671	2S10	1- 10	- 418	22. 1	40U4	ql s
5 nIhbOeCum	y071	118-	010	16. S	118-	- yU44	ql s
5 nIhbOeCum	y871	2y- 4	2SSy	4200	- S0-	- 0U11	ql s
NenOhmAum	1. S71	S	2S	0	y	114U.	ql s
NenOhmAum	1. S72	0	S	S	2	10- U21	ql s
NAqkel	6S72	8S	40	0-	60	26U4.	ql s
PEnsI Enrus	- 172	1SS	1SS	110	1S6	yU12	ql s
Pn&assAum	- y72	14866	1- . 0-	1- 6S0	14S1.	. U26	ql s
9 EnOAum	1S- 71	. 608y10	64. 4. 10	60- 68y2	62yS1S8	8U01	ql s
9 EnOAum	1S- 72	- 2. 62. 0	- 18yS28	- 14S616	- 1y. - SS	1U82	ql s
pqaCOAum	4. 71	- 6260. 2	4211SS-	422122S	4S1y6. 8	8U40	ql s
pqaCOAum	4. 72	1411- 6	14108.	1- 8- 8S	14S4- 4	1U2y	ql s
peleCAum	8271	716	711	- -	2	16SyU1.	ql s
peleCAum	0072	S	S	S	S	SUSS	ql s
peleCAum	0872	10	11	1.	14	21U1	ql s
pAAqnC	2871	1y84- 2	1y24y6	1y1y46	1y42y1	1U8.	ql s
pAver	1S071	- 42	- 10	242	- SS	10U.	ql s
pAver	1Sy71	2. S	20.	2y2	202	0U0S	ql s
pnOAum	2- 72	40- 2S	4. 28S	4- 2y8	4. 2yy	4U44	ql s
p&nC&Aum	8671	222.	1. S8	- 46S	2- y8	41U16	ql s
p&nC&Aum	8871	14286	8021	2yS- 2	10- 46	6SU1	ql s
pulfur	- 471	- S1y0-	- S- 811	- S1. . 8	- S2440	SU4S	ql s
i erbAum	1. y71	08y8- - y	8y8646y	y42y08y	8001. - 2	8Uy8	ql s
i erbAum	1. y72	4S40y- -	4S0846-	- y61. S8	4S2y- S1	1U1	ql s
i EallAum	2S- 71	1442	1410	140.	144.	2US-	ql s
i EallAum	2S. 71	- 826	- 2. y	- . 10	- . - 4	8US-	ql s
i AC	11871	11. S	1160	118-	1160	1U4-	ql s
i A&aCAum	4071	. S8	4SS	y. y	622	40Uy	ql s
RraCAum	2- 871	yS8	. . 8	1626	1S- 1	. 2U00	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maqa&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFU0

Parame&er	5 ass	3 Pp 1	3 Pp 2	3 Pp -	3 Pp 5 eaC	3 Pp 9 pt	RCA&s
VaCaOAum	. 172	4S	2S	2-	28	- 8U 8	ql s
Y&erbAum	10271	2.	0.	60	. 6	48U22	ql s
Y&erbAum	10272	- y	28	22	- S	28U6.	ql s
Y&erbAum	10671	1S10	118-	11S8	11S-	0U 0	ql s
Y&erbAum	10672	11- - -	1148-	1Syyy	11202	2U2S	ql s
Y&&Aum	8y71	1S- - 800.	118. 8S. 2	12S062- 8	11424- . .	8U28	ql s
Y&&Aum	8y72	12. - 11S	126- 188	12- - 0- 1	12. SS1S	1U2S	ql s
ZACq	6672	18-	21-	16-	180	1- U48	ql s
ZAqnCAum	yS71	02.	. 60	y. S	040	2. U08	ql s
ZAqnCAum	y171	142	1. S	4SS	2- 1	6- U0S	ql s

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Prep Standard - Chemical Standard Summary

Order ID : O3446

Test : Metals CLP MS FULL

Prepbatch ID : PB1539932

Sequence ID/Qc Batch ID: LB10, 4782

Standard ID :
MP849312MP859, 02MP8, 1152MP8, 11, 2MP8, 1052MP8, 1082MP8, 1062MP8, 1312MP8, 1302MP8, 1352MP8, 13, 2MP8, 03
82MP8, 0362MP8, 0392MP8, 0472MP8, 0412MP8, 0402MP8, 0432MP8, 0442MP8, 0452MP8, 0482

Chemical ID :
M44762M4, 582M48782M48, 62M46052M46842M46852M468, 2M46882M46672M46612M46602M46632M46642M46652M466, 2
M46662M46692M46912M57192M57072M51642M51902M51932M50772M50712M50042M50082M50092M50372M50312M50442
M50452M50692M50932M50962M53712M53682M54462M54502M54, 62M54, 92M54832M55012M55, 52M55682M55982M55992
M5, 732M5, 7, 2W0, 7, 2

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
W45	514:HCL	MP74325	04/53/9092	03/07/9092	Aa-aTet:r akl a	s onc	s onc	Nin:Hc 04/53/9092

FROM 5. 00r00000l :of:+ 9W0W6:. 00r00000l :of:M. 4. 9::=:Fina :Quantity19000r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5W3	515Hs S2	MP7. 3W9	0W92/9092	59/50/9092	j Jvc-c8:BkaaK	s onc	s onc	Aa-aTet:r akl a 0W92/9092

FROM 59. 0r00000l :of:M. . b7:6:59. 0r00000l :of:+ 9W0W:=:Fina :Quantity19. 00r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5599	BCPMA:Cj LBN: NLj s ( )A0/BCN/CCNE	MP7W55.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 9. m00000l :of:M. W02:6:439. m00000l :of:+ 9W0W6:. 0m00000l :of:M. . 37::=:Fina :Quantity1. 000m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9309	Ab:BCPMA	MP7W55W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 5m00000l :of:M. 9b3:6:9m0000l :of:M. 905:6:9m0000l :of:M. 93b:6:. m00000l :of:M. 532:6:. m00000l :of:M. 900:6:. m00000l : of:M. 4Wb:6:73m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. b	BCV)AFj ME	MP7W59.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 9m00000l :of:M. 932:6:3bm00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5549	BCAj :BCPMA	MP7W597	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:30m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5542	BCAj N:BCPMA	MP7W59b	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:50m00000l :of:M. 94. :6:b0m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
b70	BCPMA:APB(_:ASLmN	MP7W525	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 0m4. 000l :of:M4bb2:6:. m00000l :of:M440b:6:. m00000l :of:M. . W:6:23m. 000l :of:MP7W55. ::=:Fina :Quantity1. 0m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W9	MG:50PPM:FSR:wUs _	MP7W529	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/02/9092

FROM 0n05000l :of:M. 4Wb:6:3n03000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2b34	wUs _:900PPN	MP7W52.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/02/9092

FROM 9n00000l :of:M. 925:6:9n00000l :of:MP7W529:6:3Wn00000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2302	BAA:2PPM	MP7W52W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/02/9092

FROM . m00000l :of:M. . 37:6:7. m00000l :of:M. 44b:6:570m00000l :of:MP7W55. ::=:Fina :Quantity19. 0m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2347	A7)AFj M,W090,900mbE	MP7W027	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/59/9092

FROM 5m00000l :of:M4b7. :6:5m00000l :of:M4bb4:6:5m00000l :of:M4bbW6:5m00000l :of:M. 993:6:5m00000l :of:M. 920:6:5m00000l : of:M. 9b3:6:50m00000l :of:M4bbb:6:50m00000l :of:M. 539:6:50m00000l :of:M. . 33:6:9m00000l :of:M. 053:6:9m00000l :of: M. 090:6:9m0000l :of:M. 472:6:4m00000l :of:M4bb5:6:4m00000l :of:M. 2b7:6:4m00000l :of:M. 905:6:4m00000l :of:M. 93b:6: . m00000l :of:M. W0W6:. 0m00000l :of:M. 205:6:b97m00000l :of:+ 9W0W6:3m00000l :of:M4b35:6:3m00000l :of:M. 5b4:6: 3m00000l :of:M. . 95:6:3m00000l :of:M. 532:6:3m00000l :of:M. 900:6:3m00000l :of:M. 4Wb::=:Fina :Quantity15000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
234b	AW)AFj M,W090,900rbE	MP7W02b	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:4bm0000l :of:+ 9W0W6:. 0r00000l :of:MP7W027::=:Fina :Quantity1500r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2343	A.)AFj M,W090,900rbE	MP7W023	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:72m0000l :of:+ 9W0W6:9. r00000l :of:MP7W027::=:Fina :Quantity1500r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 4	A4)AFj M,W0090,900rbE	MP7W940	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:bW00000l :of:+ 9W0W6:59m0000l :of:MP7W927::=:Fina :Quantity1500r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 5	A2)AFj M,:W0090,900rbE	MP7W945	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:bbm0000l :of:+ 9W0W6:50r00000l :of:MP7W92b::=:Fina :Quantity1500r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. .	A9CSs C)AFj M,W090,900mbE	MP7W949	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM

0m0. 000l :of:M47Wb:6:0m0. 000l :of:M4b9. :6:0m0. 000l :of:M4b74:6:0m0. 000l :of:M4b7W6:0m0. 000l :of:M4b77:6:0m0. 000l : of:M4bb5:6:0m0. 000l :of:M4bb. :6:0m0. 000l :of:M4bb3:6:0m0. 000l :of:M. 5b4:6:0m0. 000l :of:M. 993:6:0m0. 000l :of:M. 920:6: 0m0. 000l :of:M. 4W3:6:0m50000l :of:M4W 7:6:0m50000l :of:M4b35:6:0m50000l :of:M. 994:6:0m50000l :of:M. 9b3:6:0m50000l : of:M. . 95:6:0m9. 000l :of:M4bb2:6:0m9. 000l :of:M4bbW6:0m9. 000l :of:M4bbb:6:0m9. 000l :of:M. 539:6:0m9. 000l :of:M. 997:6: 0m9. 000l :of:M. 93b:6:0m0000l :of:M4bb4:6:0m0000l :of:M. 2b7:6:5m9. 000l :of:M4b7. :6:5m9. 000l :of:M4bb0:6:5m9. 000l : of:M4bb9:6:9m0000l :of:M. 532:6:9m0000l :of:M. 900:6:9m0000l :of:M. 905:6:9m0000l :of:M. 4Wb:6:9m0000l :of:M. W0W6: 99. m5. 000l :of:+ 9W0W6:. m00000l :of:M. . 33::=:Fina :Quantity19. 0m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. W	A9)AFj M,W090,900mbE	MP7W942	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM

0m0000l :of:M. W0W6:5m00000l :of:M. . 33:6:3bm00000l :of:+ 9W0W6:0m0000l :of:MP7W949::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 7	A5)AFj M,W090,900rbE	MP7W944	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5m00000l :of:M. . 33:6:bbm0000l :of:+ 9W0W6:50m00000l :of:MP7W942::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W5	CCV	MP7W94.	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M4b7. :6:0m0000l :of:M4bb4:6:0m0000l :of:M4bbW6:0m0000l :of:M. 053:6:0m0000l :of:M. 993:6:0m0000l : of:M. 920:6:5m00000l :of:M. 090:6:50m00000l :of:M. . 33:6:59m4. 000l :of:M. 93b:6:59m0000l :of:M. 4W3:6:9m00000l :of: M4bb5:6:94m3. 000l :of:M. 532:6:94m3. 000l :of:M. 900:6:94m3. 000l :of:M. 905:6:94m3. 000l :of:M. 4W6:6:9. m00000l :of: M. 205:6:4m0000l :of:M4b35:6:4m0000l :of:M. 5b4:6:4m0000l :of:M. . 95:6:4m3. 000l :of:M. 9b3:6:. m00000l :of:M. 539:6: . m00000l :of:M. W0W6:b0. mb0000l :of:+ 9W0W:=:Fina :Quantity15000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W4	CS s CrnCAA:APB(_	MP7W047	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM

0rn. 000l :of:M47Wb:6:0rn. 000l :of:M4b9. :6:0rn. 000l :of:M4b74:6:0rn. 000l :of:M4b7W6:0rn. 000l :of:M4b77:6:0rn. 000l :
of:M4bb5:6:0rn. 000l :of:M4bb. :6:0rn. 000l :of:M4bb3:6:0rn. 000l :of:M. 5b4:6:0rn. 000l :of:M. 993:6:0rn. 000l :of:M. 920:6:
0rn. 000l :of:M. 472:6:0m0000l :of:M4W 7:6:0m0000l :of:M. 994:6:0m0000l :of:M. 9b3:6:0m0000l :of:M. . 95:6:5rn. 000l :
of:M4707:6:5rn. 000l :of:M4bb2:6:5rn. 000l :of:M4bbW6:5rn. 000l :of:M4bbb:6:5rn. 000l :of:M4b35:6:5rn. 000l :of:M. 539:6:
59m0000l :of:M. 532:6:59m0000l :of:M. 900:6:59m0000l :of:M. 905:6:59m0000l :of:M. 4Wb:6:5. 5rn. 000l :of:+ 9W0W6:
9m0000l :of:M4bb4:6:9m0000l :of:M. 2b7:6:9m0000l :of:M. W0W6:. rn00000l :of:M. 93b:6:. rn00000l :of:M. . 33:6:Wn. 000l :
of:M4b7. :6:Wn. 000l :of:M4bb0:6:Wn. 000l :of:M4bb9::=:Fina :Quantity1 9. 0rn000::l

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	P2-MEB683701	08/21/2023	09/25/2020 / jaswal	08/27/2019 / BIN	M4408

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	P2-V685591	12/05/2023	11/21/2020 / bin	08/21/2020 / bin	M4707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Boron (B)	031921	03/19/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5229

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	073021	07/30/2024	05/08/2023 / jaswal	07/05/2022 / bin	M5230

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	R2-MEB695520	11/26/2023	11/27/2022 / jaswal	07/06/2022 / jaswal	M5231

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	05/01/2022 / jaswal	04/01/2022 / jaswal	M5301

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	S2-MEB709511	03/06/2024	03/07/2023 / jaswal	04/01/2022 / jaswal	M5448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	09/07/2023	03/26/2023 / Al-Terek	02/24/2022 / Al-Terek	M5452

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	P2-MEB683701
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**100.0 ± 0.7 µg/mL**	**Arsenic, As**	**40.00 ± 0.21 µg/mL**
Cadmium, Cd	**49.98 ± 0.22 µg/mL**	**Lead, Pb**	**20.00 ± 0.09 µg/mL**
Selenium, Se	**10.00 ± 0.06 µg/mL**	**Thallium, Tl**	**50.02 ± 0.26 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 21, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 21, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

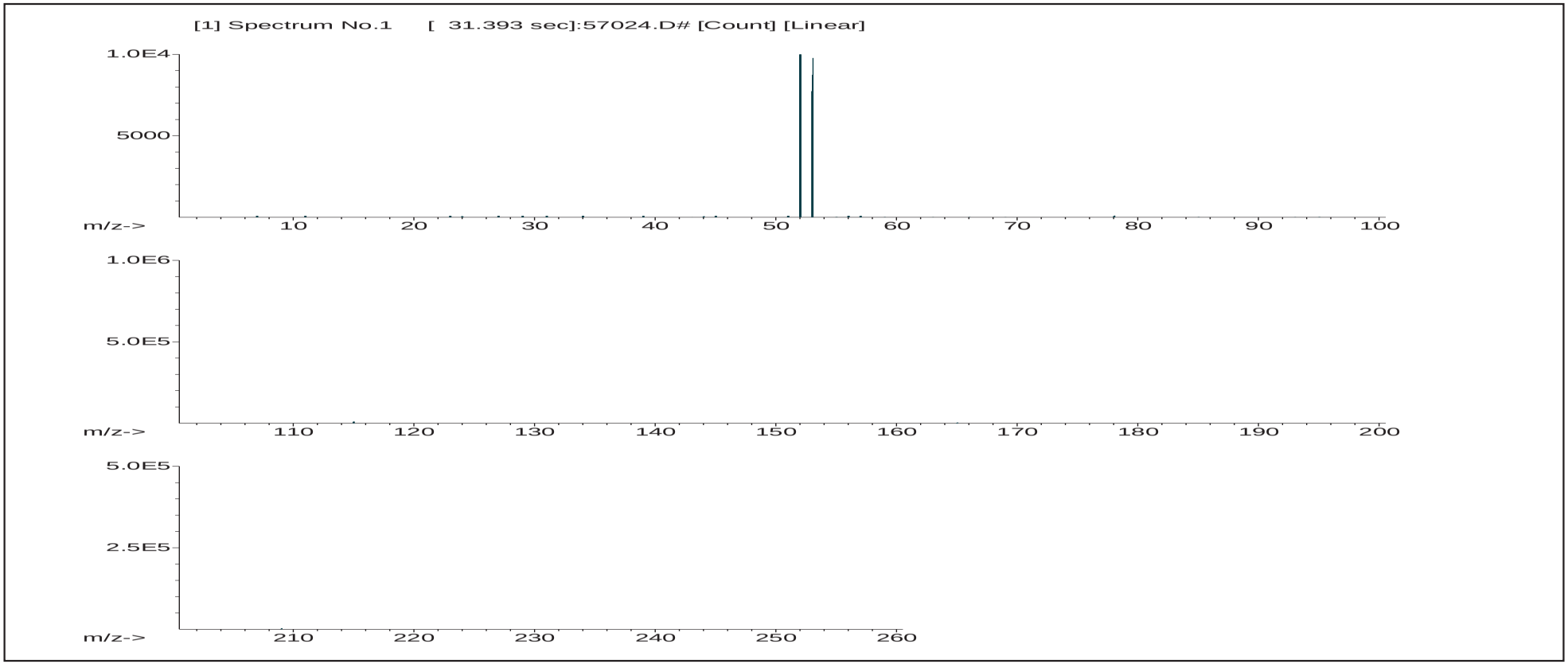
956

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58024**	19410105	Nitric Acid
Lot Number:	**082620**		
Description:	**Chromium (Cr)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	082623		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Chromium (III) nitrate nonahydrate (Cr)	58124	121619	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



957

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	P2-V685591
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9939%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **1002 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000273	M	Eu	<	0.000118	O	Na		0.010915	M	Se	<	0.001167	M	Zn	<	0.006080
M	Al		0.006218	M	Fe		0.023106	M	Nb	<	0.001479	O	Si		0.036363	M	Zr	<	0.003181
M	As	<	0.000540	M	Ga	<	0.009451	M	Nd	<	0.000118	M	Sm	<	0.000118				
M	Au	<	0.000191	M	Gd	<	0.000118	M	Ni	<	0.003169	M	Sn	<	0.000733				
M	B	<	0.002950	M	Ge	<	0.000434	M	Os	<	0.000150	M	Sr		0.000060				
M	Ba	<	0.001024	M	Hf	<	0.000118	O	P	<	0.056000	M	Ta	<	0.000118				
M	Be	<	0.000118	M	Hg	<	0.000170	M	Pb		0.000241	M	Tb	<	0.000118				
M	Bi	<	0.000363	M	Ho	<	0.000118	M	Pd	<	0.000140	M	Te	<	0.002236				
O	Ca		0.011869	M	In	<	0.000118	M	Pr	<	0.000118	M	Th	<	0.000118				
M	Cd	<	0.000145	M	Ir	<	0.000118	M	Pt	<	0.000118	M	Ti		0.001386				
M	Ce	<	0.000245	M	K		0.002082	M	Rb	<	0.000118	M	Tl	<	0.000118				
M	Co	<	0.000119	M	La	<	0.000118	M	Re	<	0.000118	M	Tm	<	0.000118				
O	Cr		0.017206	M	Li	<	0.000501	M	Rh	<	0.000118	M	U	<	0.000395				
M	Cs		0.000477	M	Lu	<	0.000118	M	Ru	<	0.000118	s	V	<					
M	Cu	<	0.002021	M	Mg		0.000612	n	S	<		M	W		0.000174				
M	Dy	<	0.000118	M	Mn		0.000649	M	Sb		0.008706	M	Y	<	0.000118				
M	Er	<	0.000118	O	Mo		0.007182	M	Sc	<	0.000118	M	Yb	<	0.000118				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M4768 R: 10/28/2020 (BH)

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

962

CERTIFIED WEIGHT REPORT:

Part Number: 57028
Lot Number: 072420
Description: Nickel (Ni)

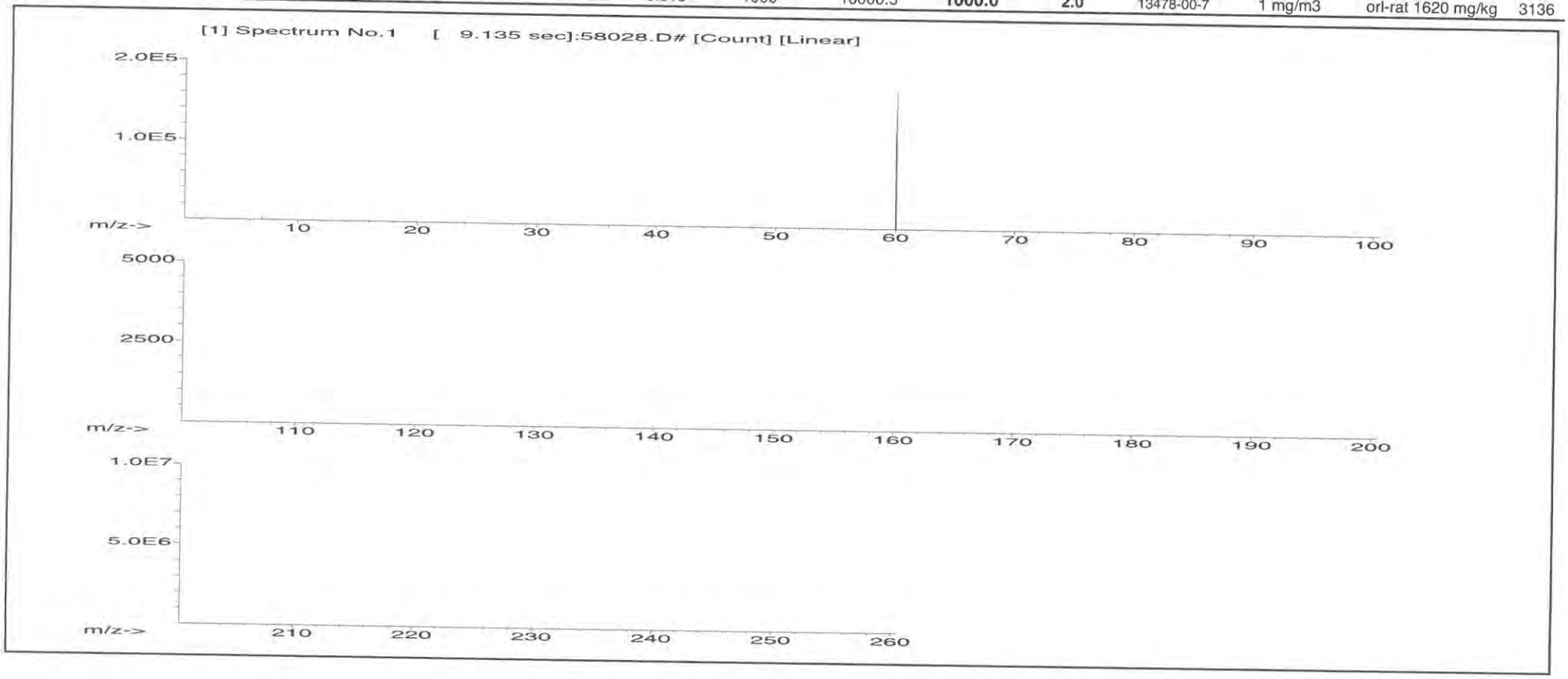
Expiration Date: 072423
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 23060
Volume shown below was diluted to (mL): 2000.02

	Lot #	Solvent:	
	19410105	Nitric Acid	
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 072420
Reviewed By: Pedro L. Rentas 072420

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel (II) nitrate Hexahydrate (Ni)	58128	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



963

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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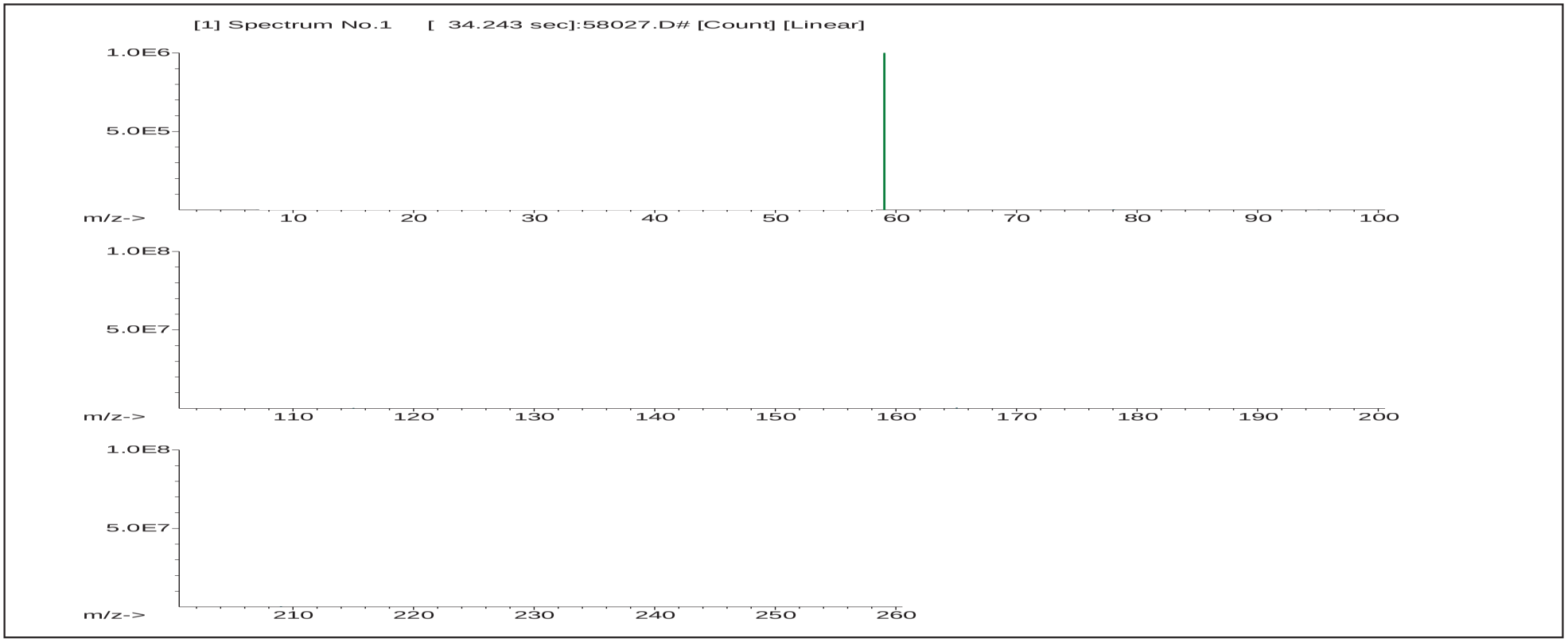
964

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57027**	19410105	Nitric Acid
Lot Number:	**020821**		
Description:	**Cobalt (Co)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	020824		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty

Formulated By:	Lawrence Barry	020821
Reviewed By:	Pedro L. Rentas	020821

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Cobalt nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 mg/kg	3113



995

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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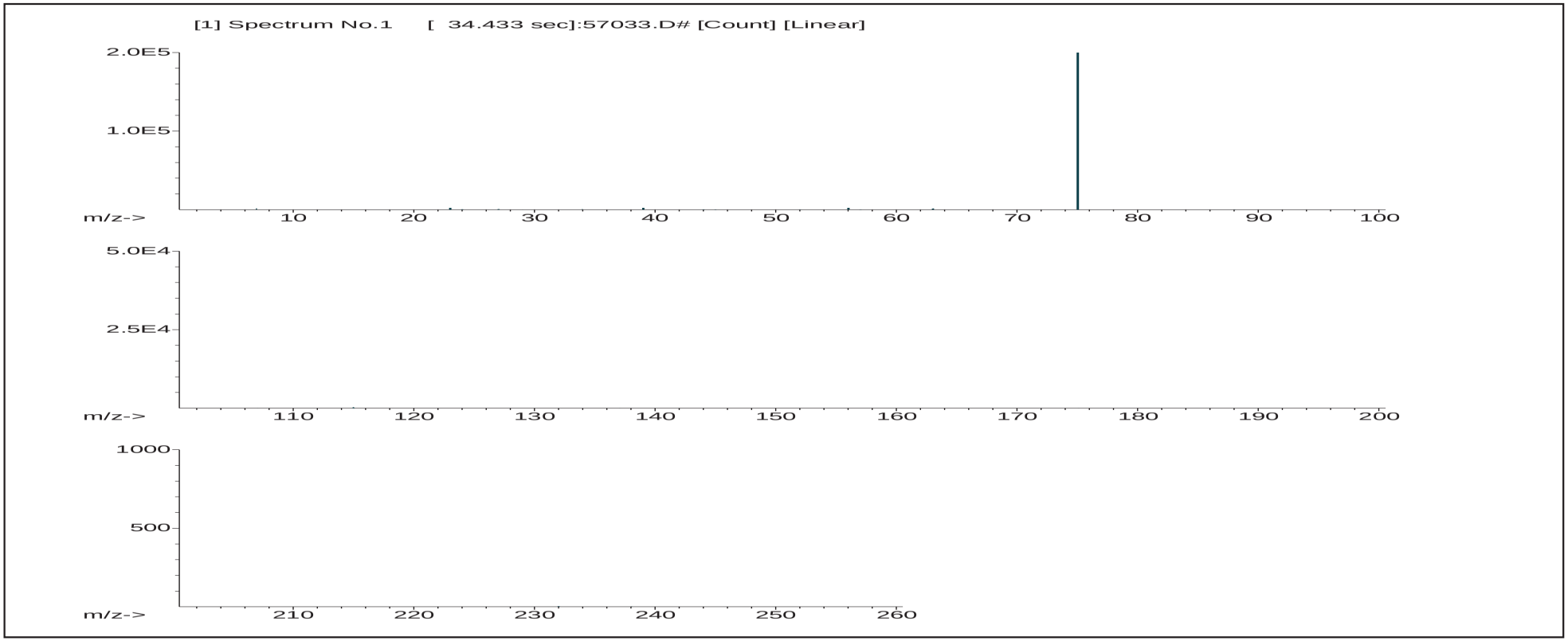
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57033**	19410105	Nitric Acid
Lot Number:	**012521**		
Description:	**Arsenic (As)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	012524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

996

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



996

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 031921
Description: Boron (B)

Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
2.0%	40.0 (mL)	Ammonium hydroxide	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

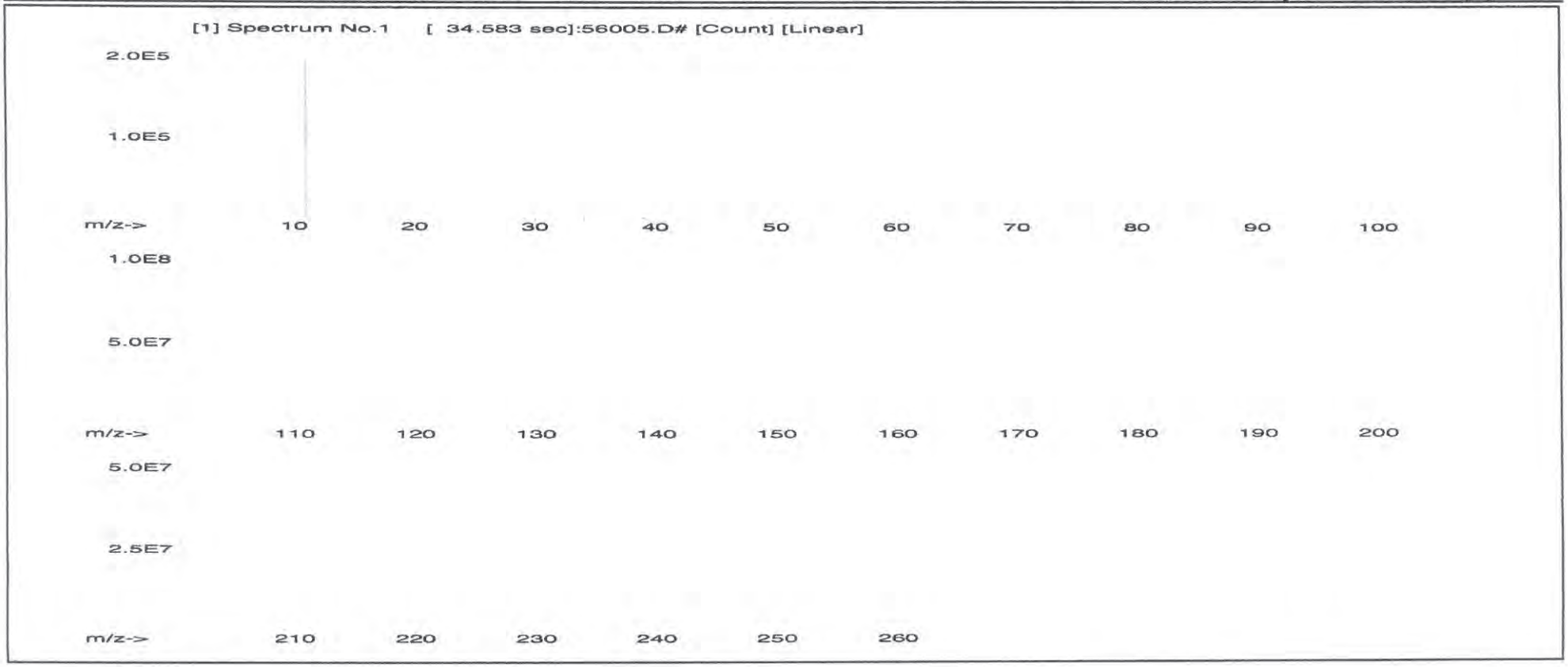
Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

996

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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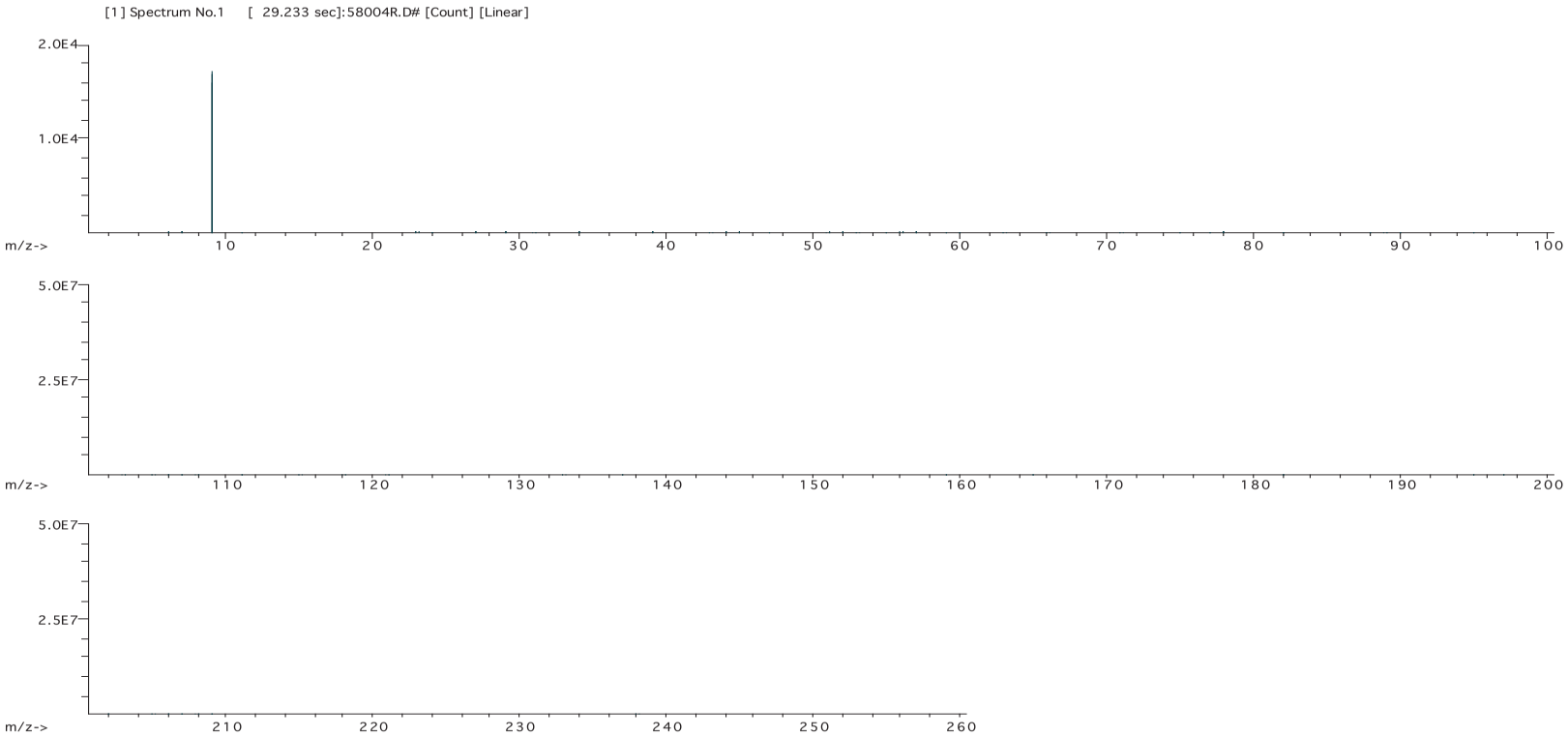
970

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57004**	19410105	Nitric Acid
Lot Number:	**030221**		
Description:	**Beryllium (Be)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	030224		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



971

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

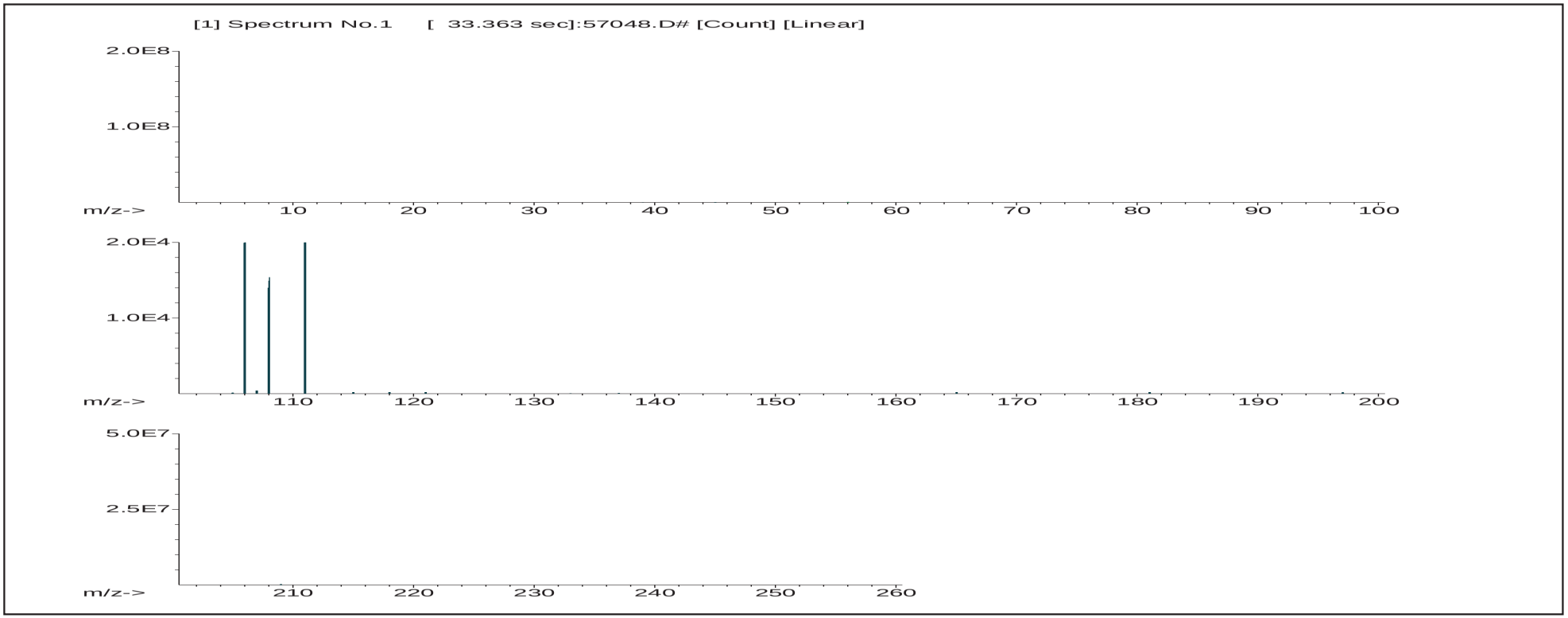
Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

972

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



973

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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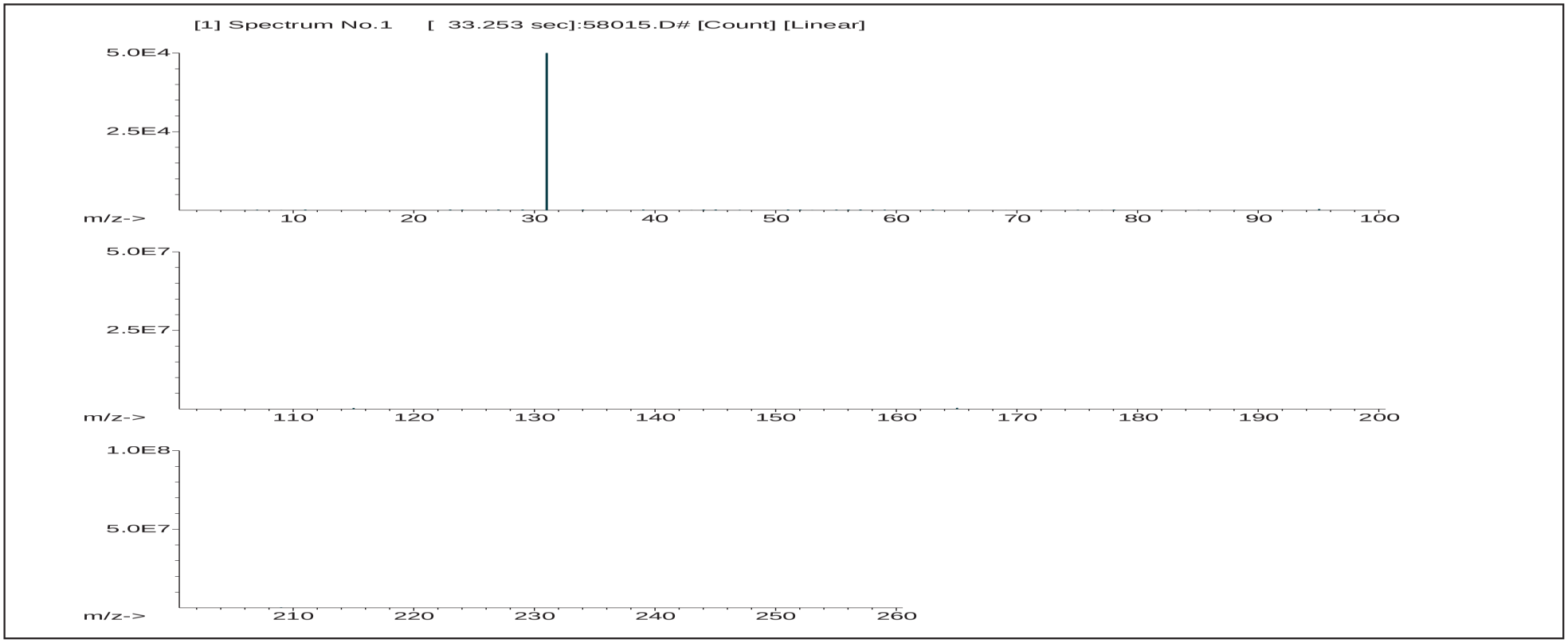
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57015**	20370011	Nitric Acid	
Lot Number:	**051121**			
Description:	**Phosphorous (P)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	051124			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	051121
Reviewed By:	Pedro L. Rentas	051121

974

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



975

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

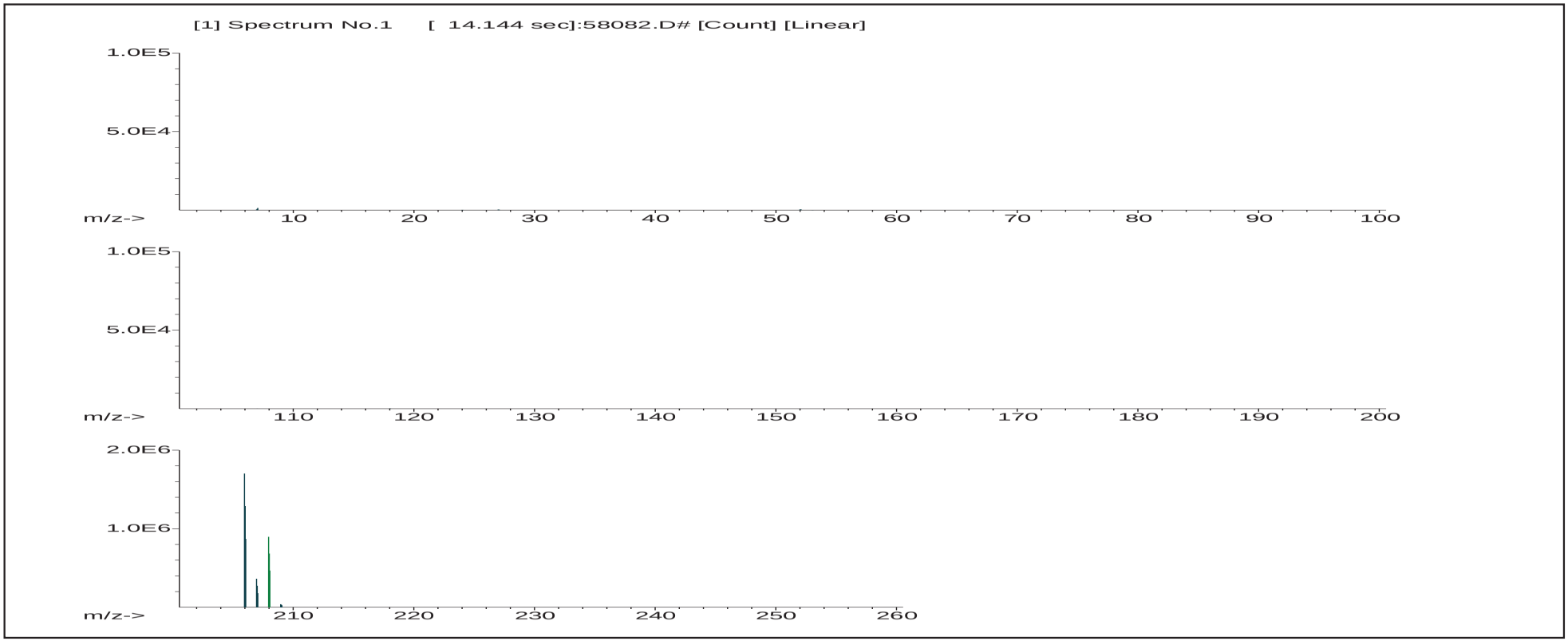
976

CERTIFIED WEIGHT REPORT:

				Lot #	**Solvent:**		
Part Number:	**57082**			20370011	Nitric Acid		
Lot Number:	**062221**						
Description:	**Lead (Pb)**						
				2.0%	40.0	Nitric Acid	
Expiration Date:	062224				(mL)		
Recommended Storage:	Ambient (20 ºC)						
Nominal Concentration (µg/mL):	**1000**						
NIST Test Number:	6UTB		5E-05	Balance Uncertainty			
Volume shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty			

Formulated By:	Lawrence Barry	062221
Reviewed By:	Pedro L. Rentas	062221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



977

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

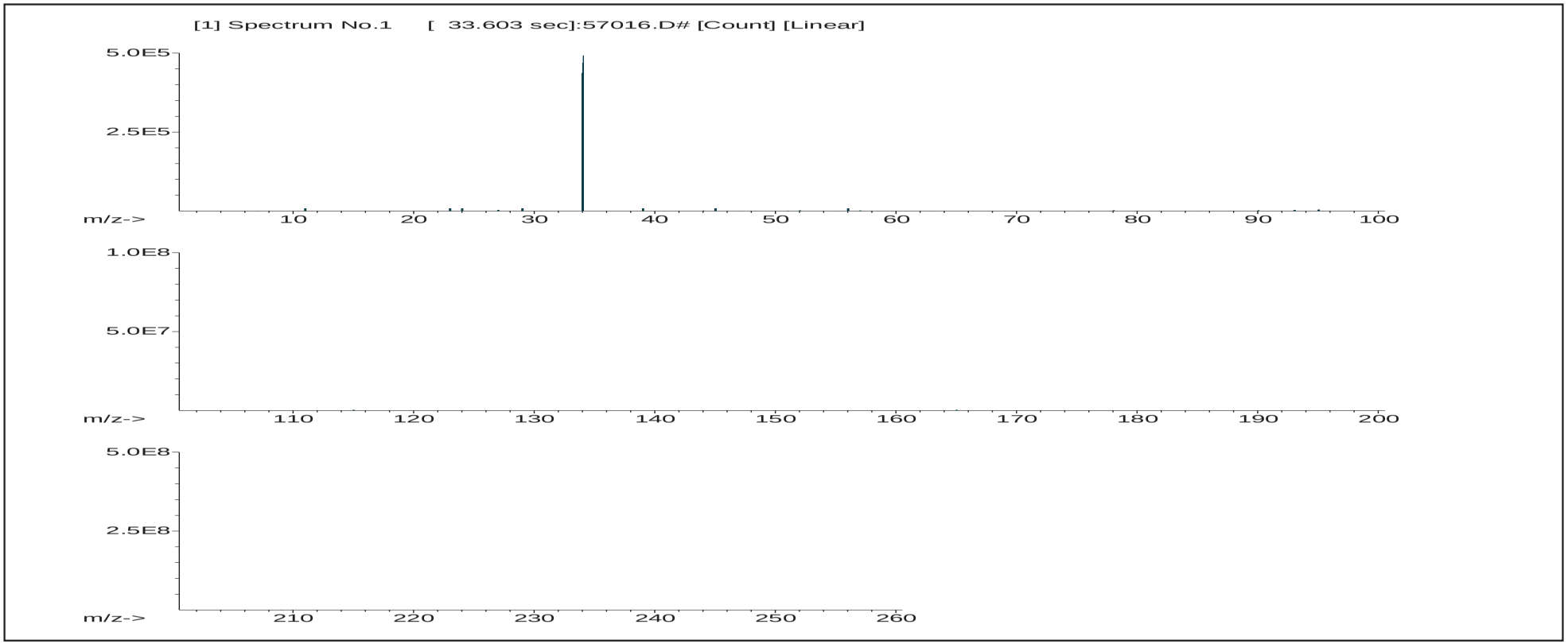
Part Number:	**57016**	**Lot #**	**Solvent:**
Lot Number:	**051721**	051721	ASTM Type 1 Water
Description:	**Sulfur (S)**		

Expiration Date: 051724
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

978

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



679

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

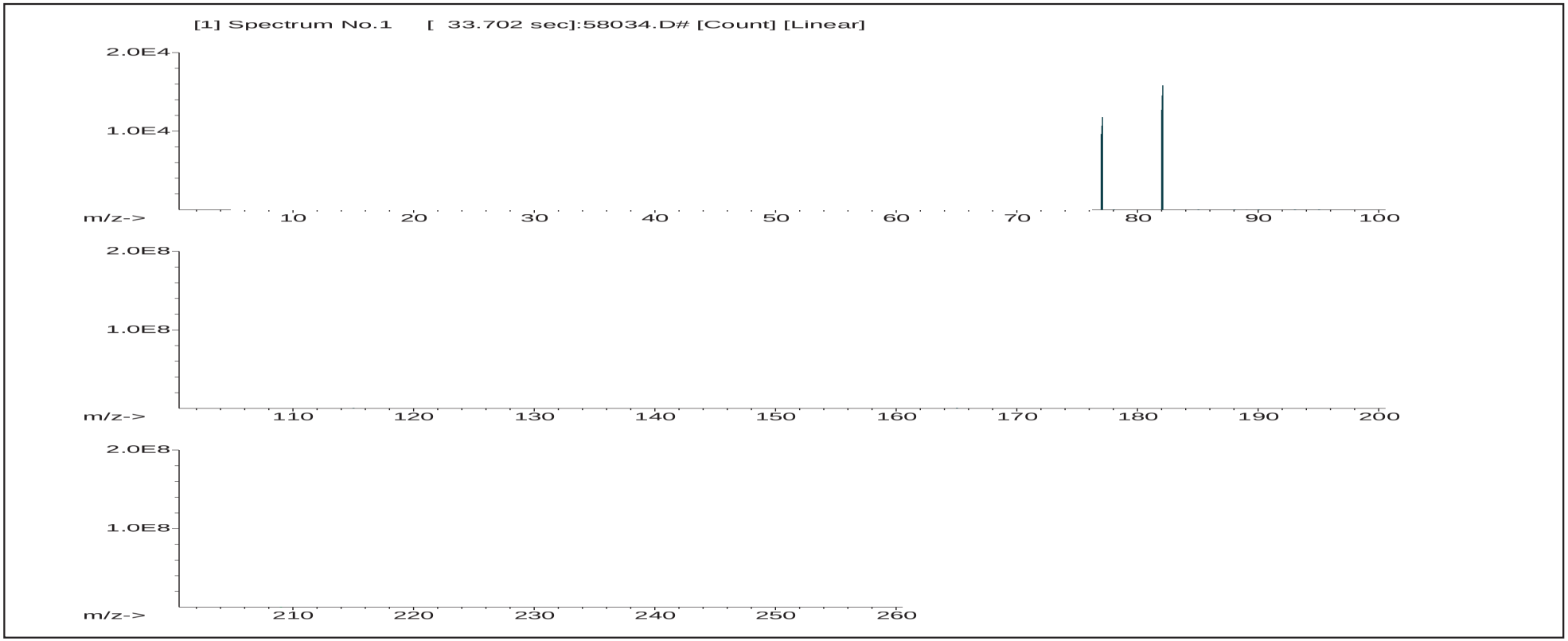
Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

080

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



981

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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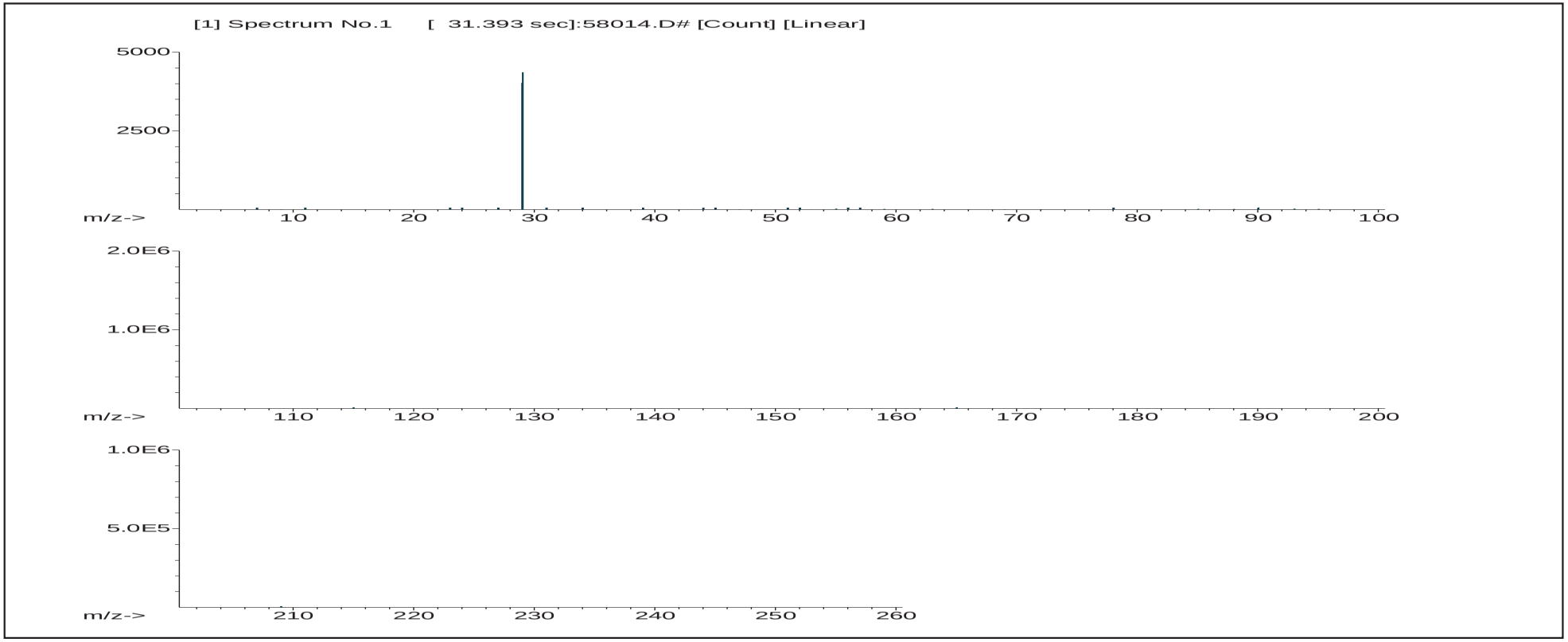
982

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57014**	19410105	Nitric Acid
Lot Number:	**030921**		
Description:	**Silicon (Si)**		
		2.0%	60.0 Nitric Acid
Expiration Date:	030924		(mL)
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



983

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57047**	20370011	Nitric Acid	
Lot Number:	**072921**			
Description:	**Silver (Ag)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072924			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

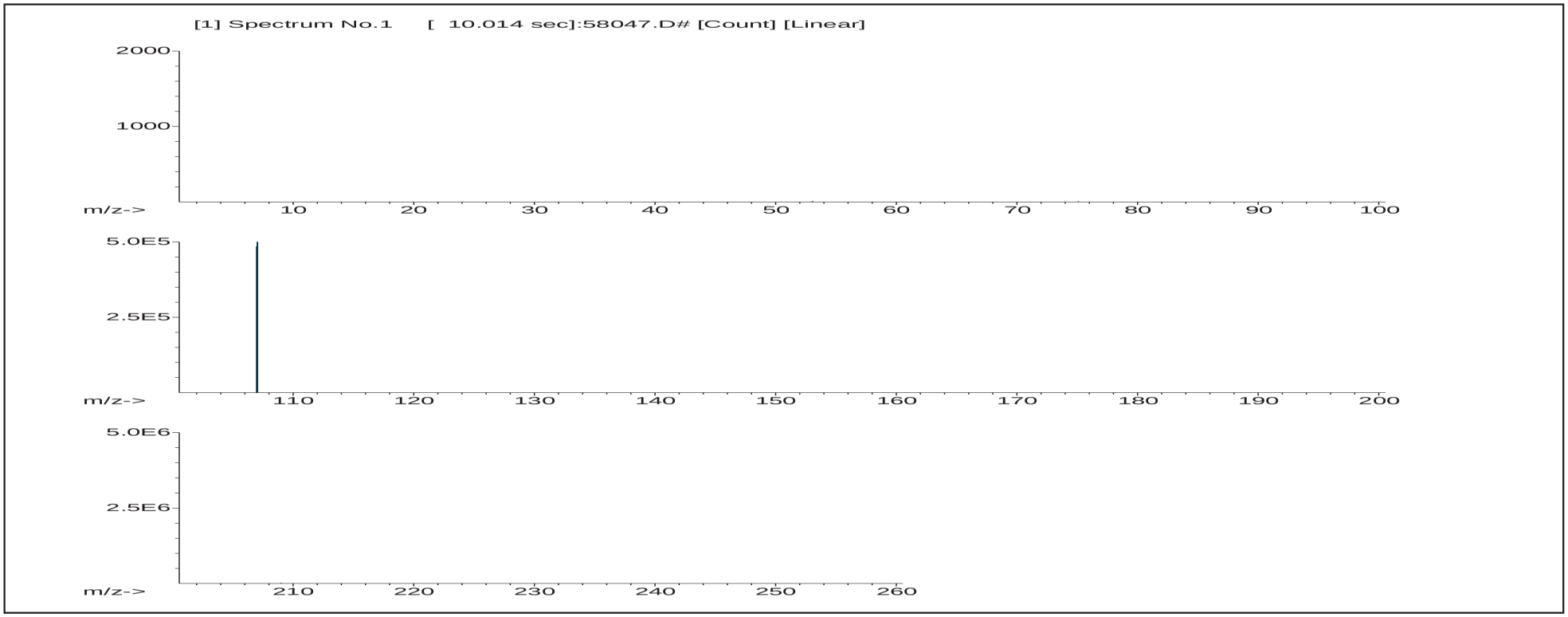
Formulated By: Giovanni Esposito 072921

Pedro Rentas

Reviewed By: Pedro L. Rentas 072921

984

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



985

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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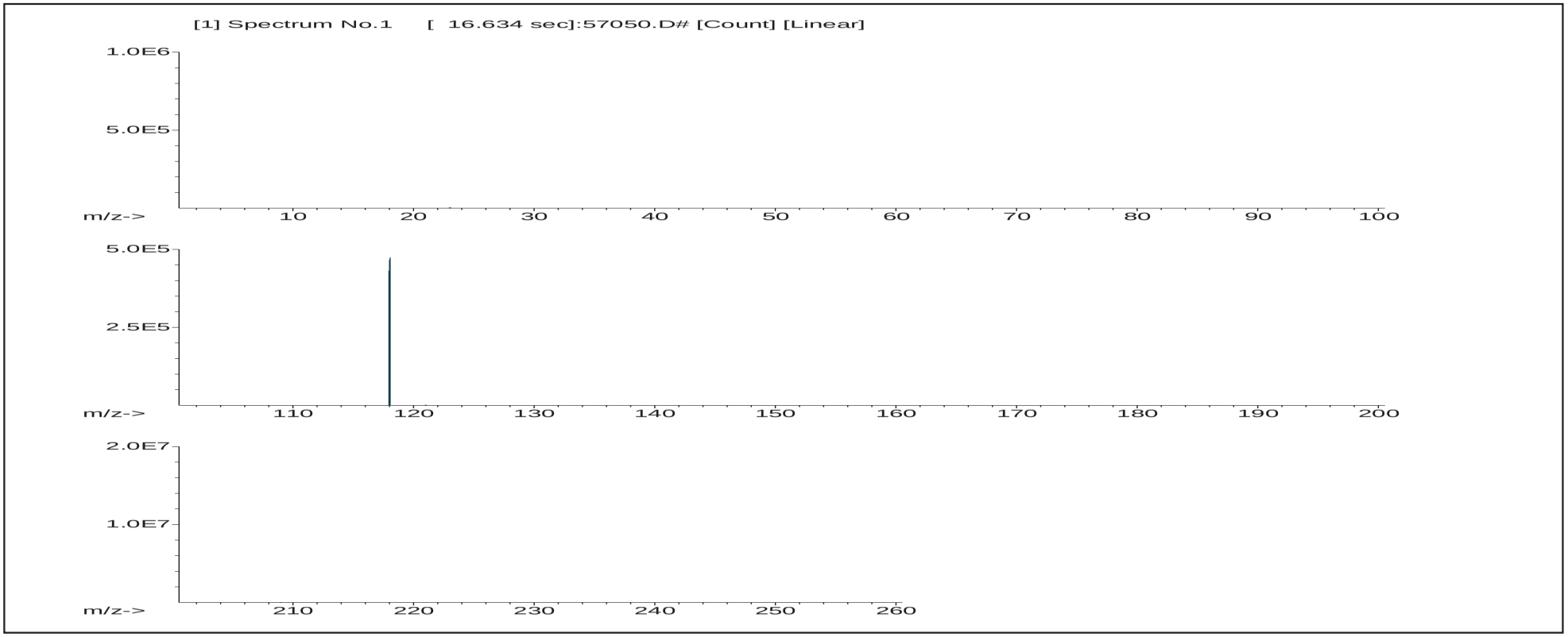
986

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57050**	19410105	Nitric Acid	
Lot Number:	**021121**	240241	Hydrochloric acid	
Description:	**Tin (Sn)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	021124	6.0%	120.0	Hydrochloric acid
Recommended Storage:	Ambient (20 ºC)		(mL)	
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty	

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



987

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

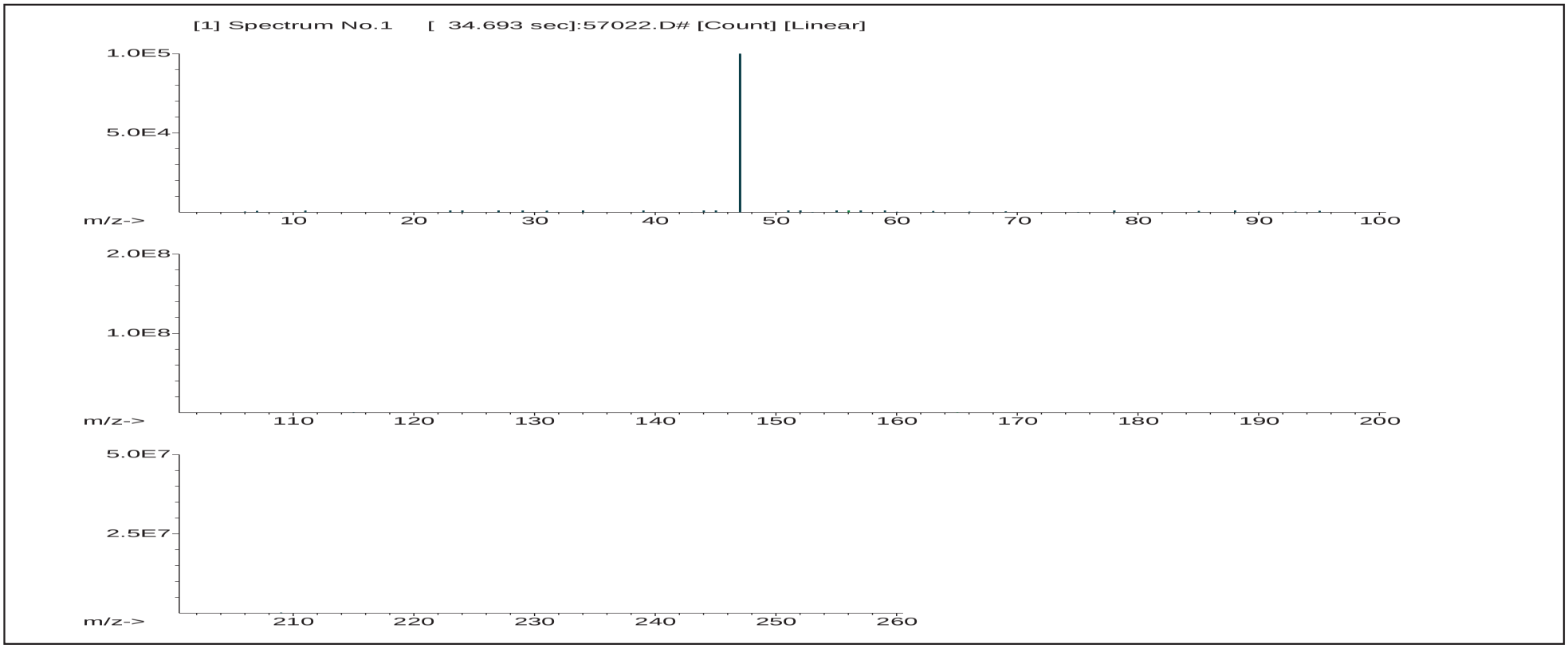
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57022**	20370011	Nitric Acid
Lot Number:	**070721**		
Description:	**Titanium (Ti)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	070724		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

988

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



689

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57081**	20370011	Nitric Acid	
Lot Number:	**073021**			
Description:	**Thallium (Tl)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	073024			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

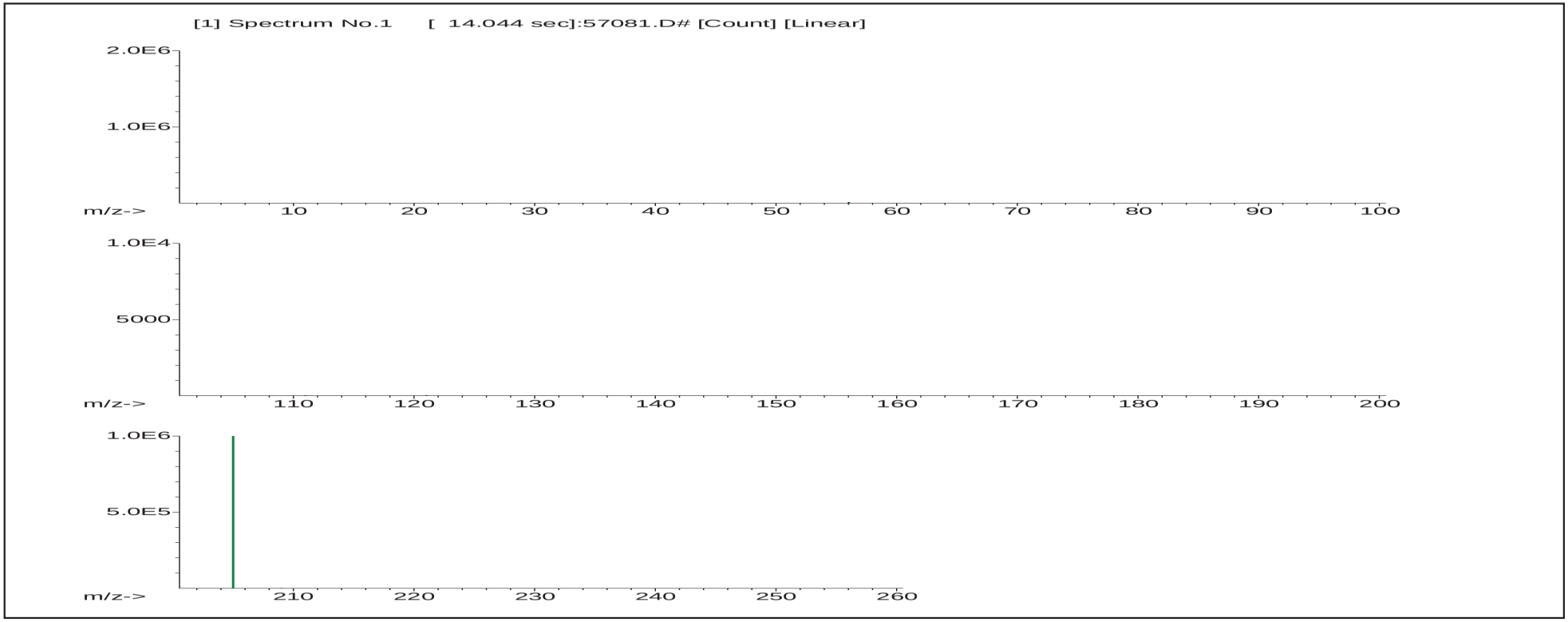
Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

066

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



T66

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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992

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58030**	20370011	Nitric Acid
Lot Number:	**031921**		
Description:	**Zinc (Zn)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

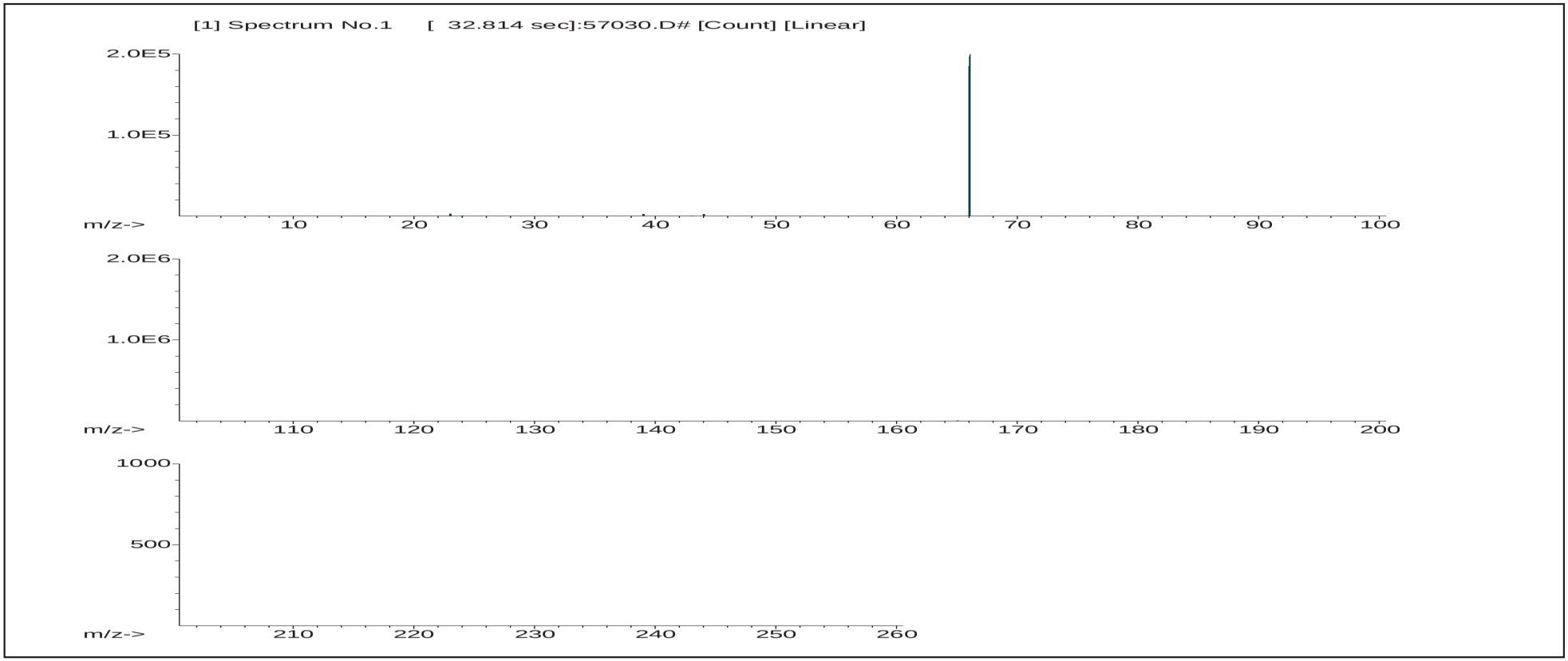
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



993

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

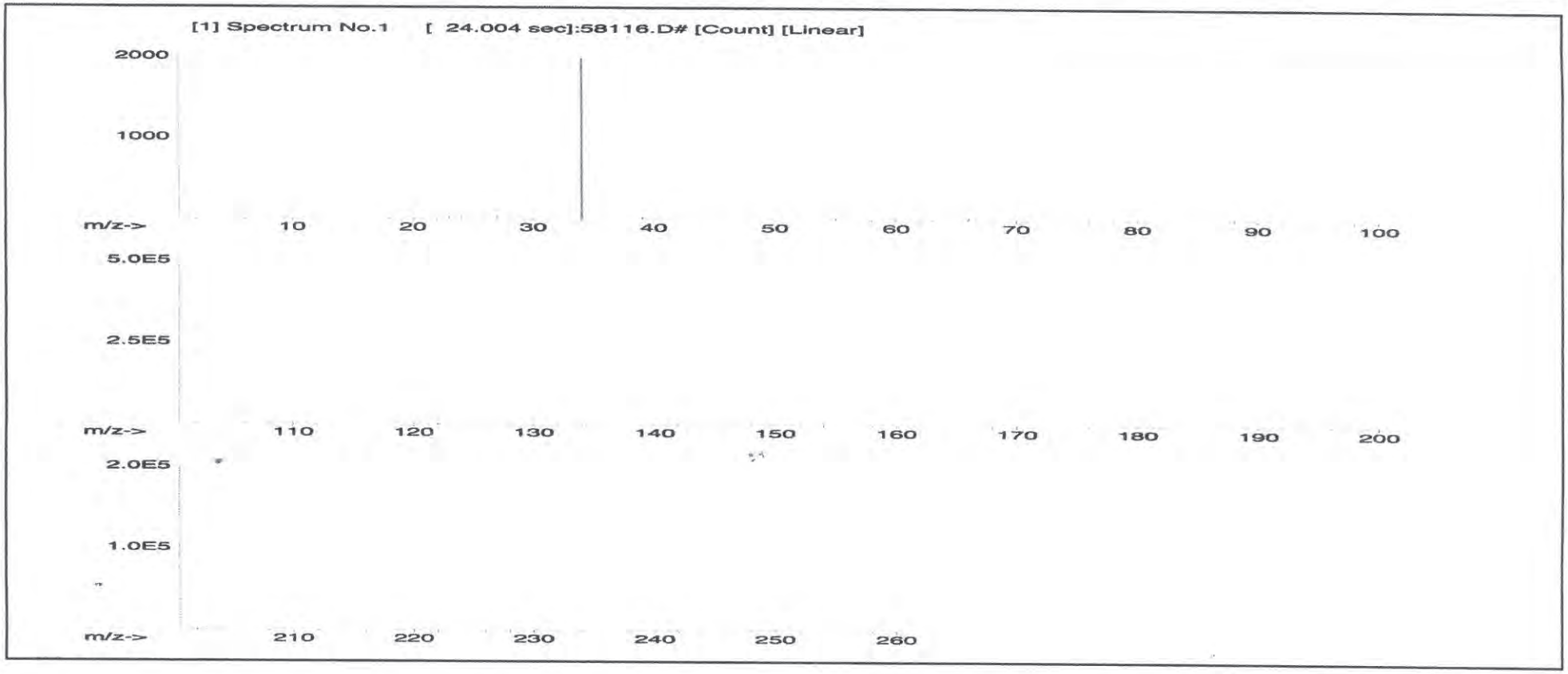
Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



994

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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995

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M5020

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966

CERTIFIED WEIGHT REPORT:

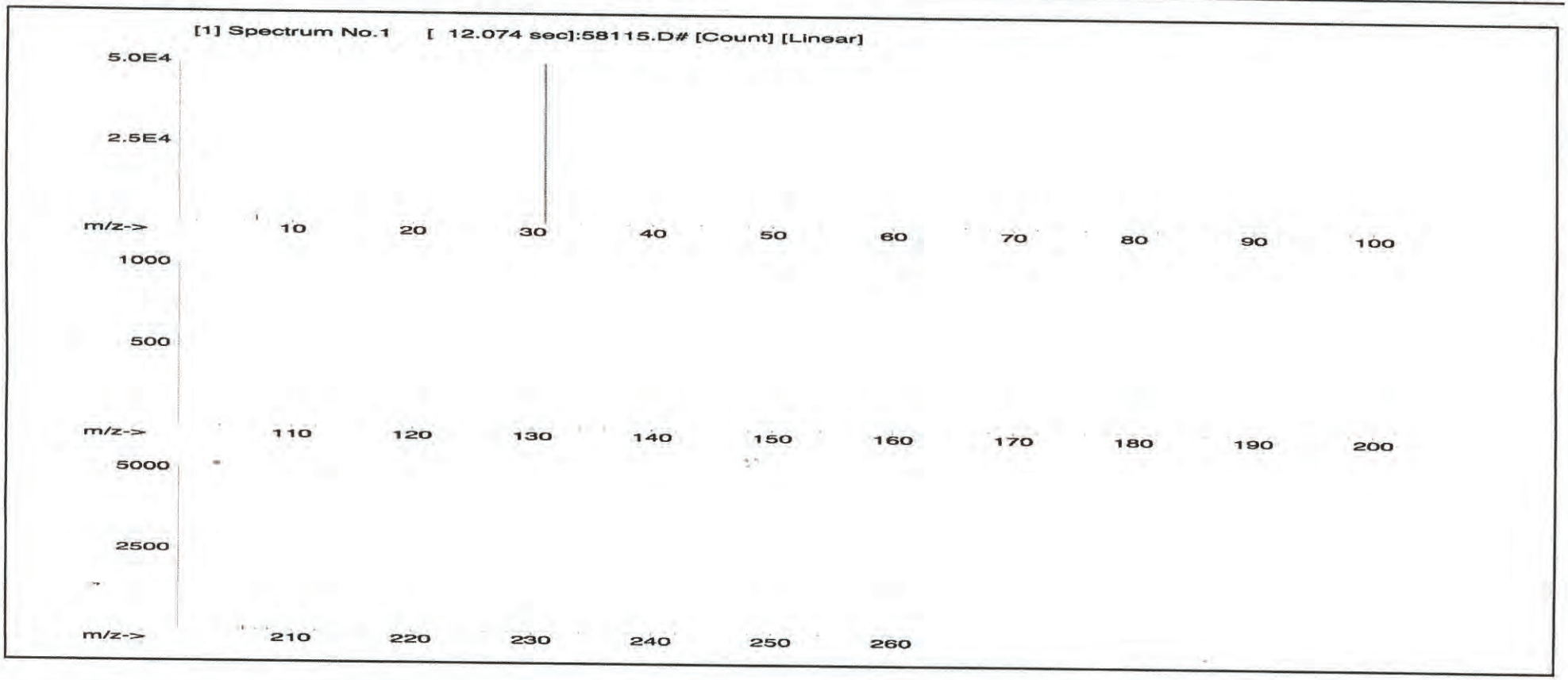
Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



997

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 6/2/22

CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:
Part Number:	**58025**	20510011	Nitric Acid
Lot Number:	**060122**		
Description:	**Manganese (Mn)**		

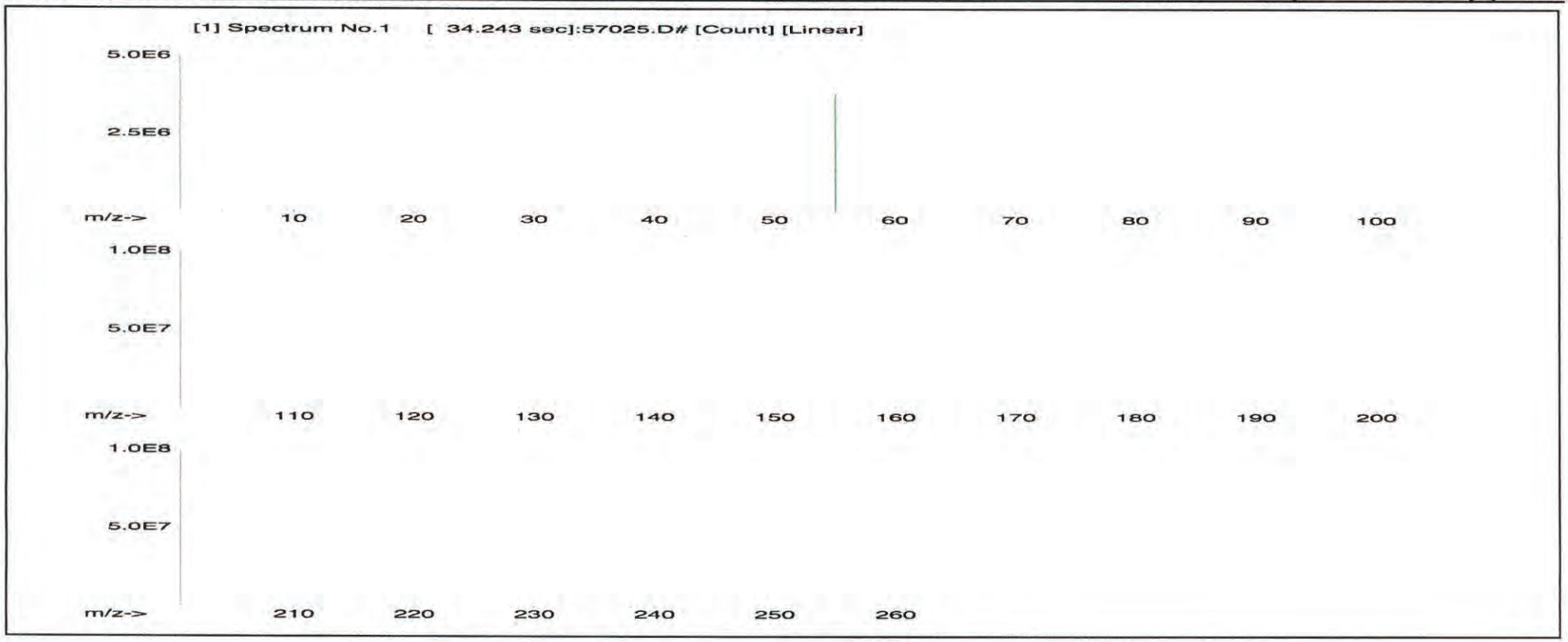
2.0%	60.0 (mL)	Nitric Acid	

Expiration Date:	060125		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

866

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



666

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: **57042**
Lot Number: **051722**
Description: **Molybdenum (Mo)**

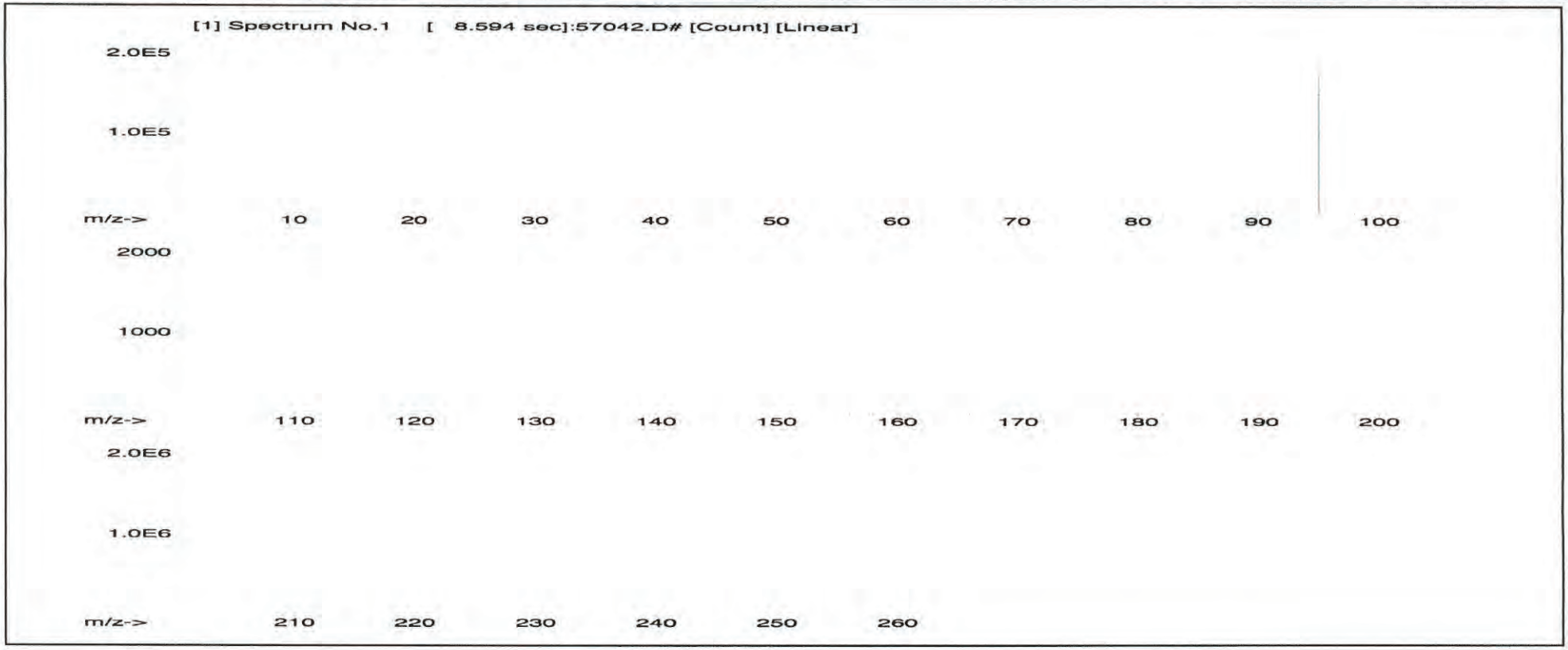
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	
		5E-05	Balance Uncertainty
		0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

1000

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



1001

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5193
R: 09/23/21

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1002

CERTIFIED WEIGHT REPORT:

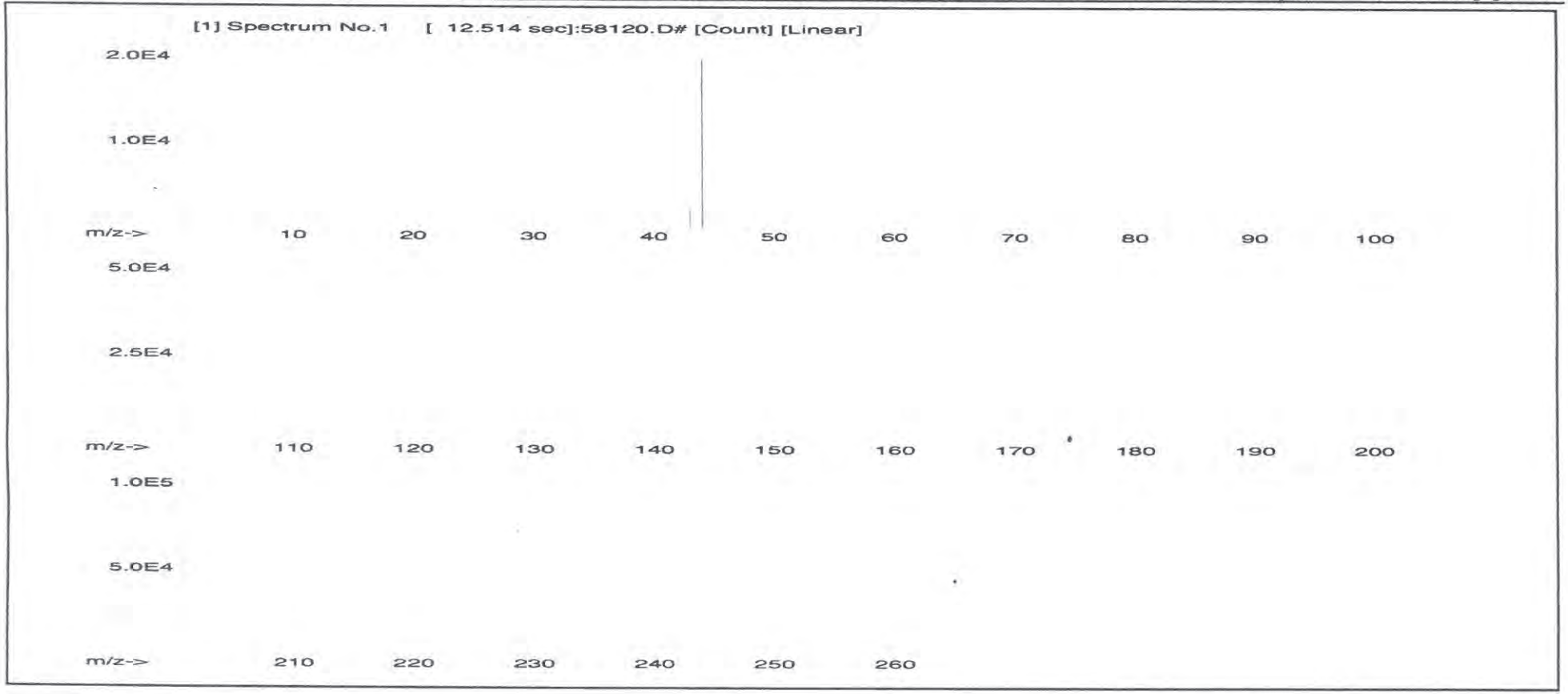
Part Number: **58120**
Lot Number: **082021**
Description: **Calcium (Ca)**
Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	082021
Reviewed By:	Pedro L. Rentas	082021

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1003

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1004

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #	
Solvent:	20370011	Nitric Acid
2%	60.0 (mL)	Nitric Acid
5E-05	Balance Uncertainty	
0.058	Flask Uncertainty	

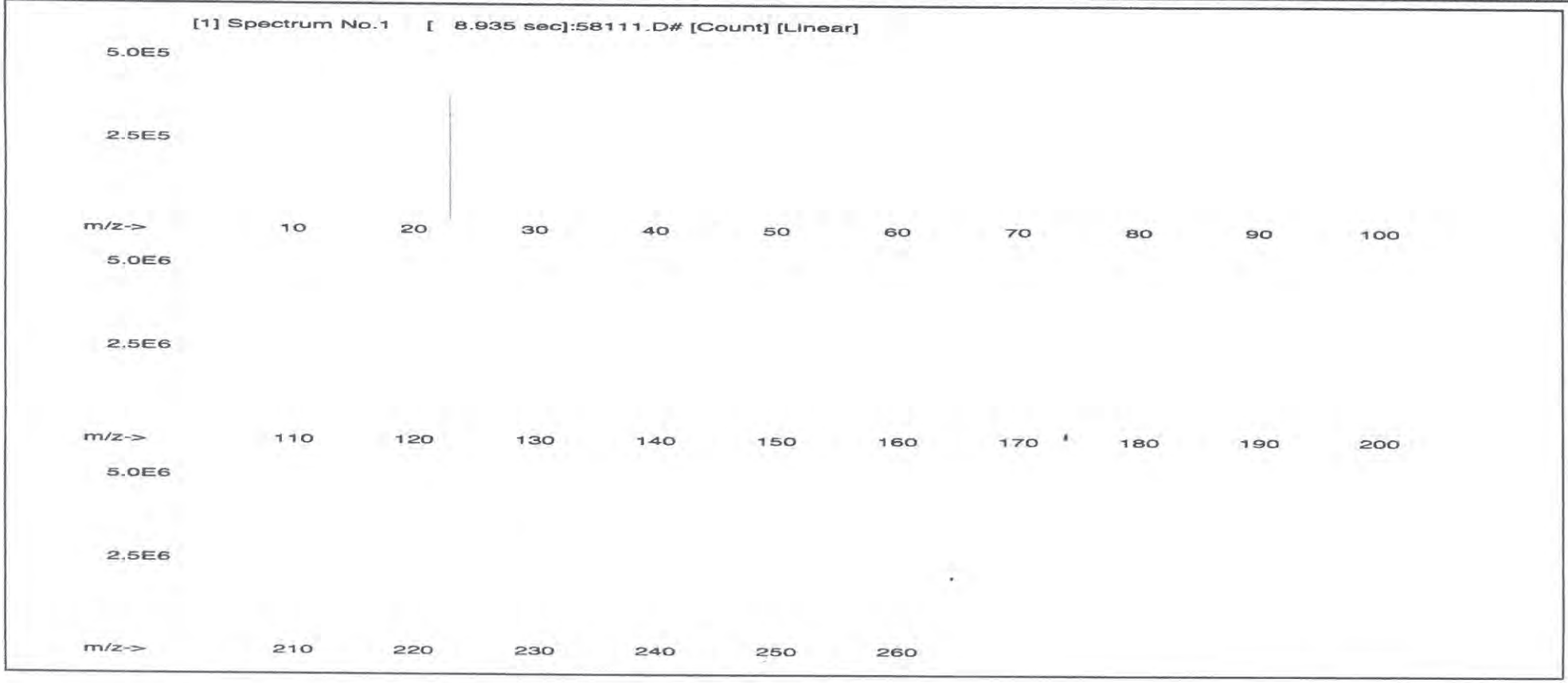
Giovanni Esposito

Formulated By:	Giovanni Esposito	092121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



1005

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

Part Number: **57119**
Lot Number: **062321**
Description: **Potassium (K)**

Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

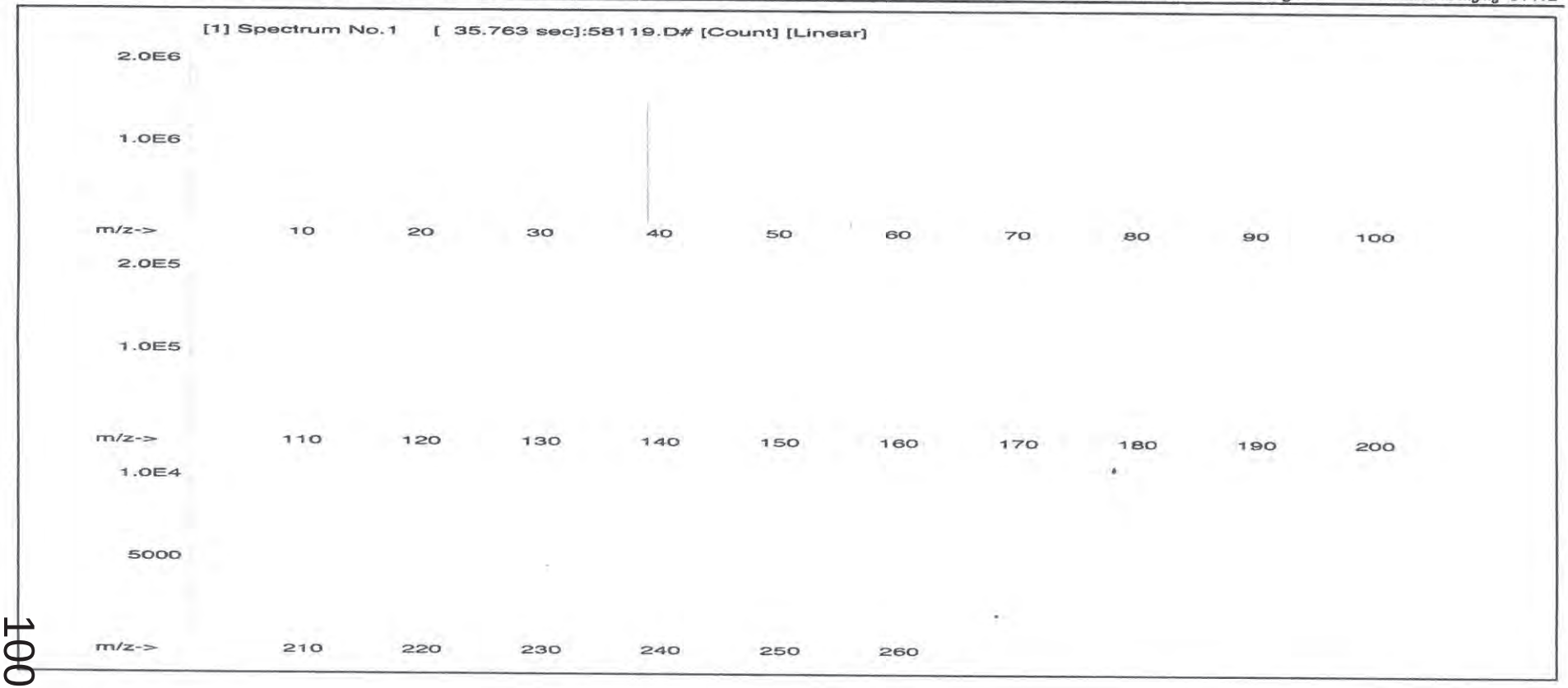
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



1006

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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1008

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57051**	20370011	Nitric Acid
Lot Number:	**101521**		
Description:	**Antimony (Sb)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	101524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty

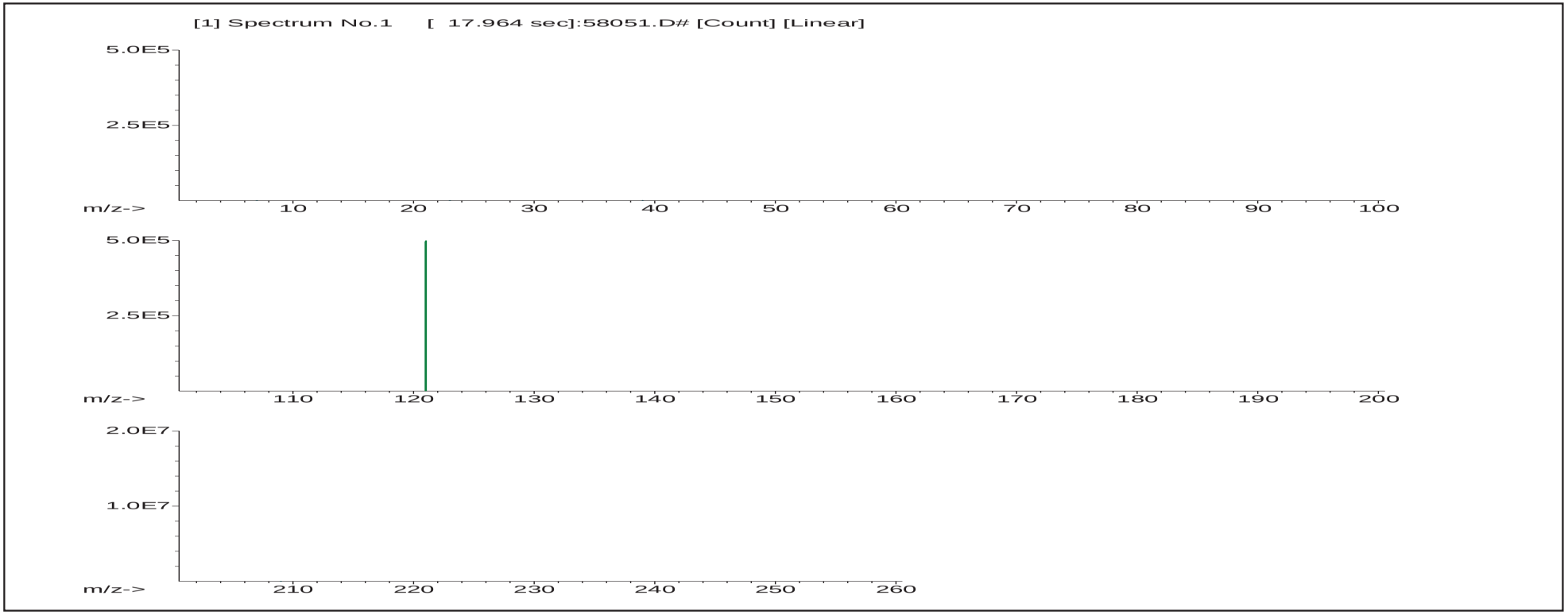
Giovanni Esposito

Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



1009

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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M5227 R: 10/18/2021

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

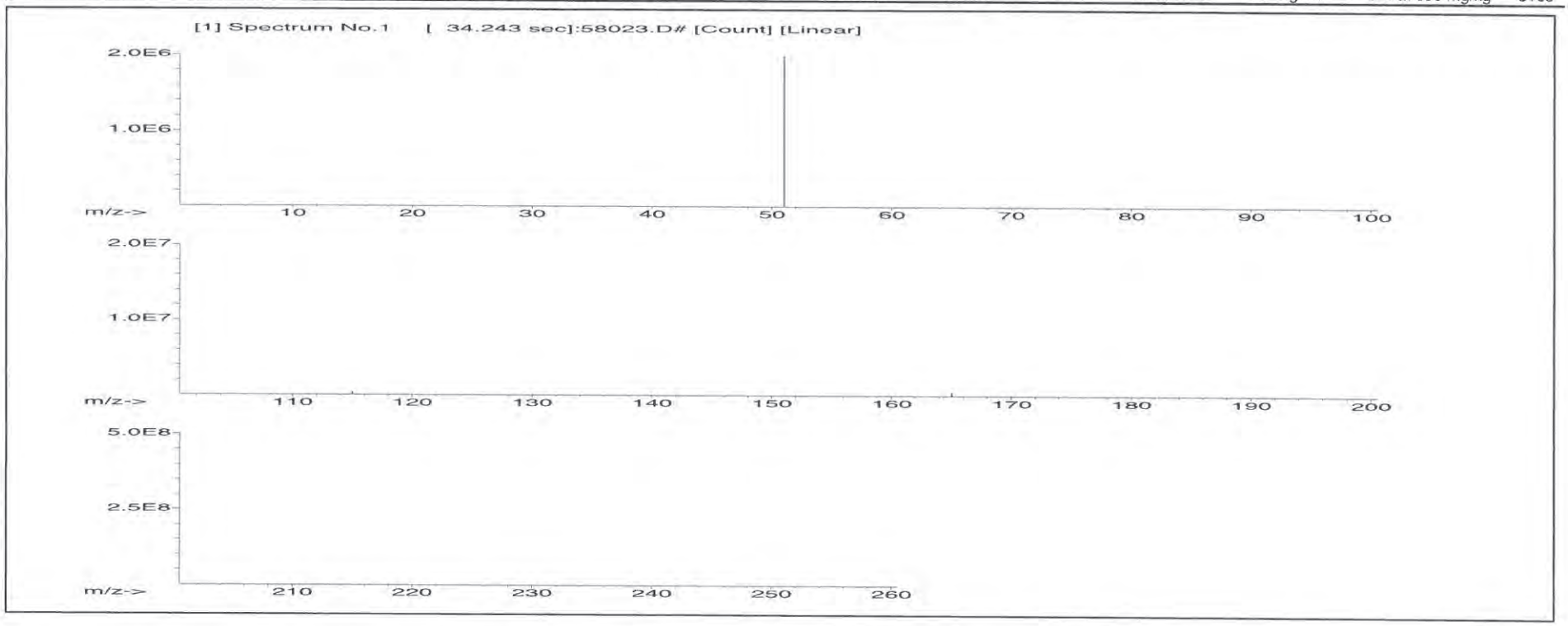
		Lot #	Solvent:		
Part Number:	**57023**	20370011	Nitric Acid		
Lot Number:	**100121**				
Description:	**Vanadium (V)**				
		2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	100124				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	100121
Reviewed By:	Pedro L. Rentas	100121

Pedro Rentas

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



1010

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1011

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M5229 R: 07/05/22 (BH)

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1012

CERTIFIED WEIGHT REPORT:

Part Number: 57092
Lot Number: 073021
Description: Uranium (U)

Expiration Date: 073024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

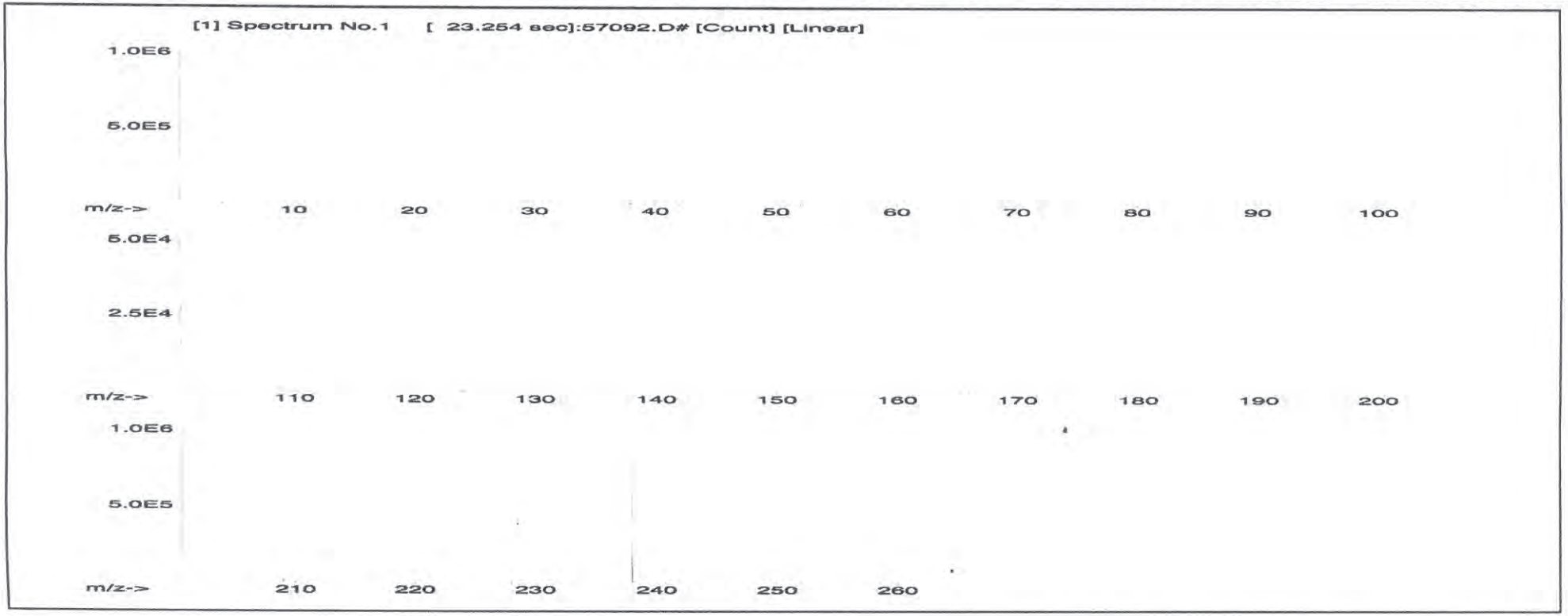
Lot #	Solvent:		
20370011	Nitric Acid		
2.0%	60.0 (mL)	Nitric Acid	

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Pedro Rentas

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	**2.1**	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



10013

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (μg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5230 R 07/05/22 BH

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1014

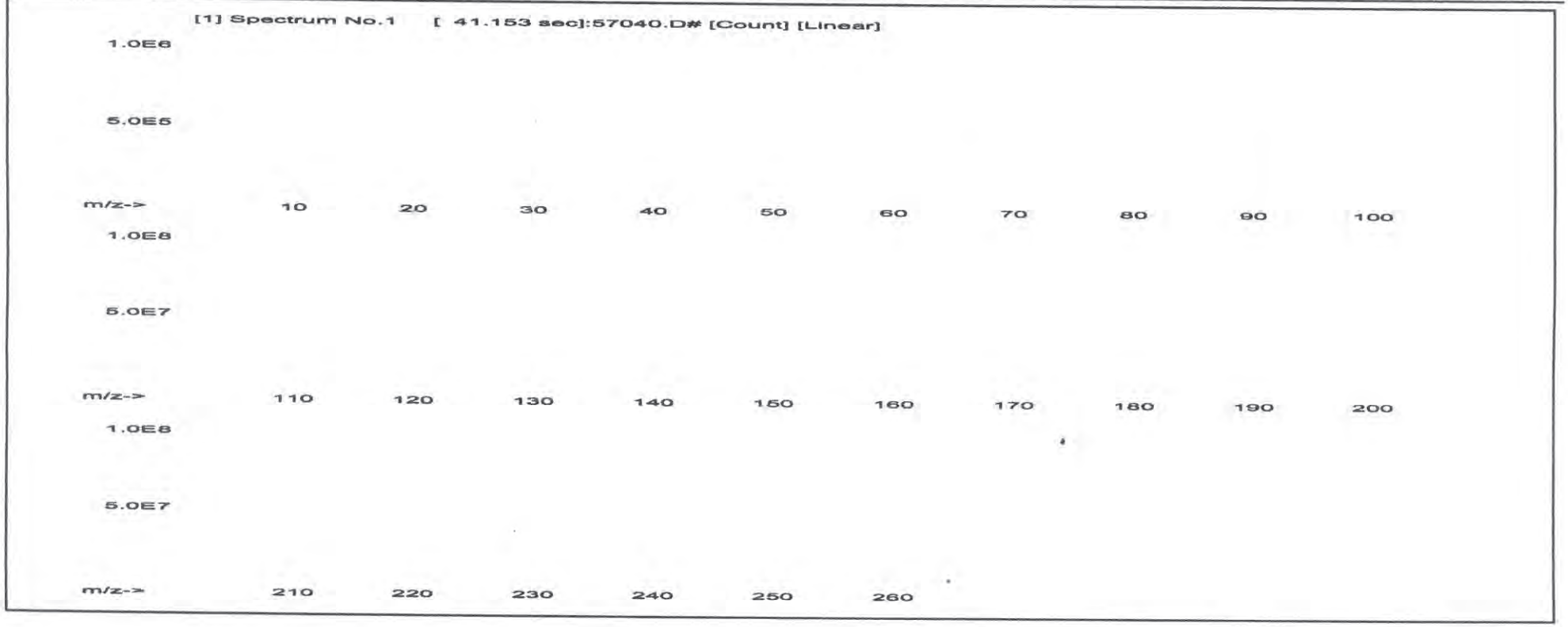
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57040**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Zirconium (Zr)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	300.0	0.084	1000	10000.3	**1000.0**	**2.1**	13520-92-8	NA	NA	NA



10015

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
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Christiansburg, VA 24073 USA
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CERTIFICATE OF ANALYSIS

R: 7/6/22 M5231

tel: 800.669.6799 / 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	R2-MEB695520
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Bismuth, Cobalt, Lithium, Lead, Beryllium, Cerium, Indium, Nickel, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.05 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.04 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.00 ± 0.04 µg/mL
Nickel, Ni	10.00 ± 0.04 µg/mL	Uranium, U	10.00 ± 0.05 µg/mL

Density: 1.023 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	991212
Bi	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 04, 2024

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Wednesday, Oct 14, 2020 by utruong. Revision was made for the following reason: Added missing isotopic abundance for Uranium..

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Absolute Standards, Inc.
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M5289 R: 07/12/22 (B4)

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1020

CERTIFIED WEIGHT REPORT:

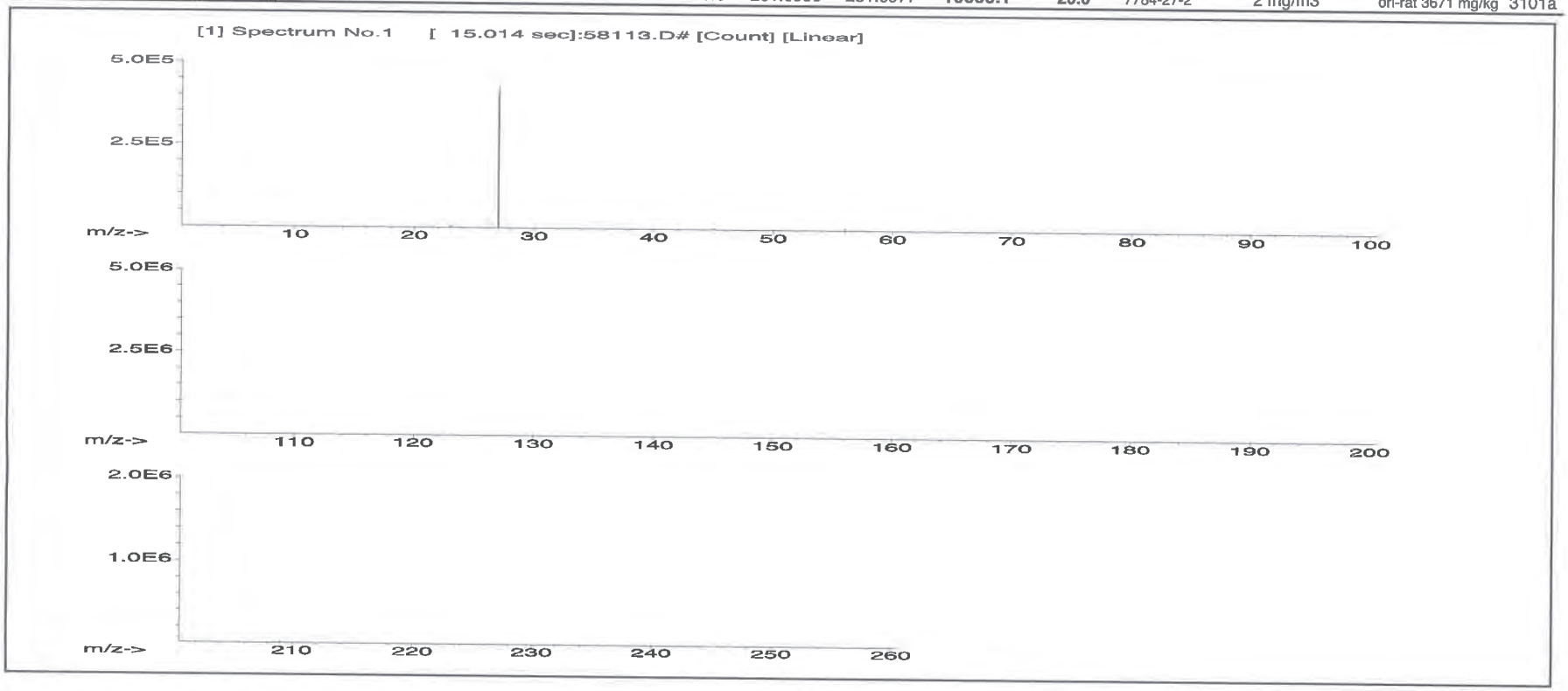
Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



1021

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58126**
Lot Number: **020422** M5298
Description: **Iron (Fe)**

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

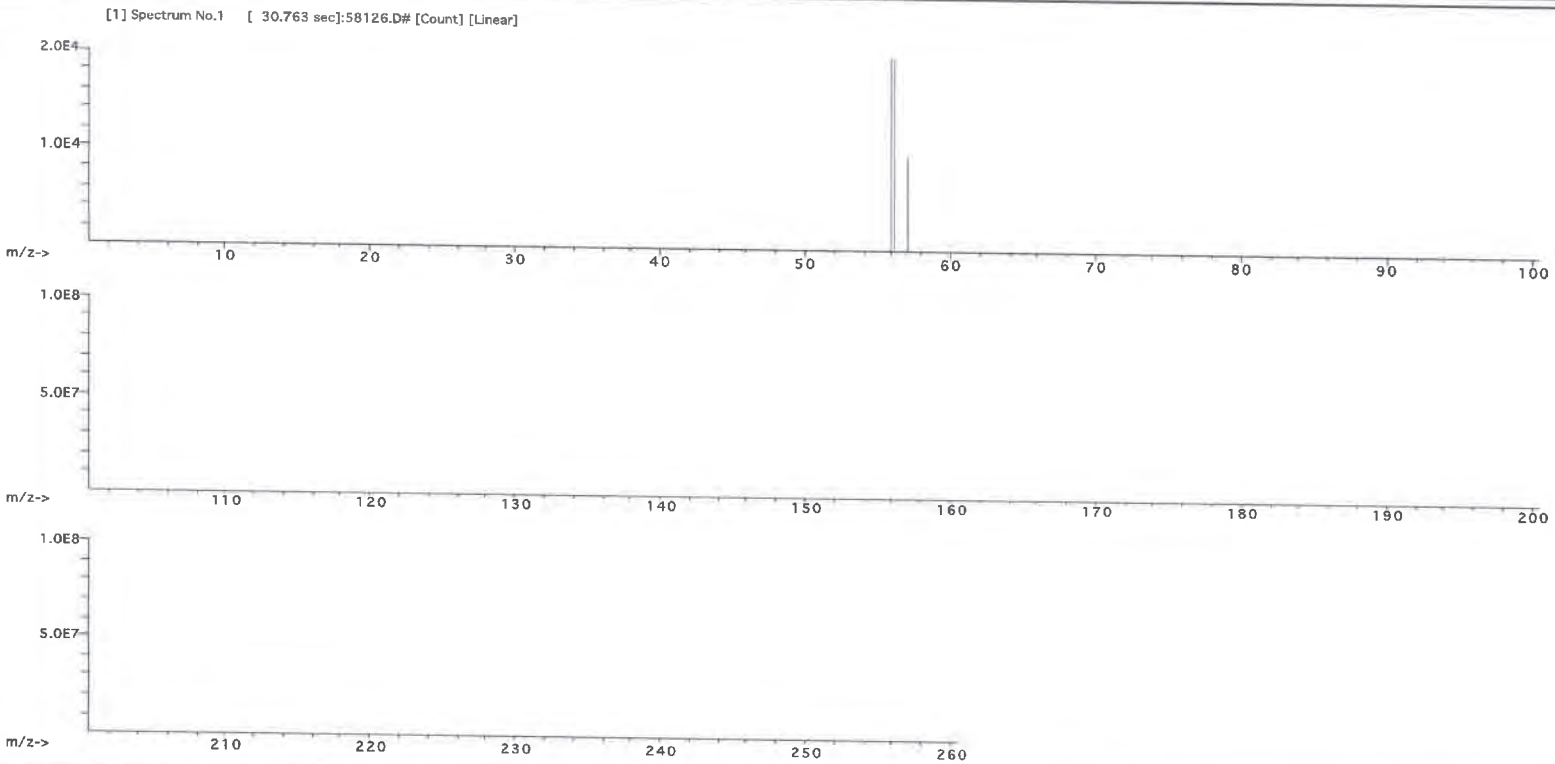
	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



1024

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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1025

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389. M5390. M5391. M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1030

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

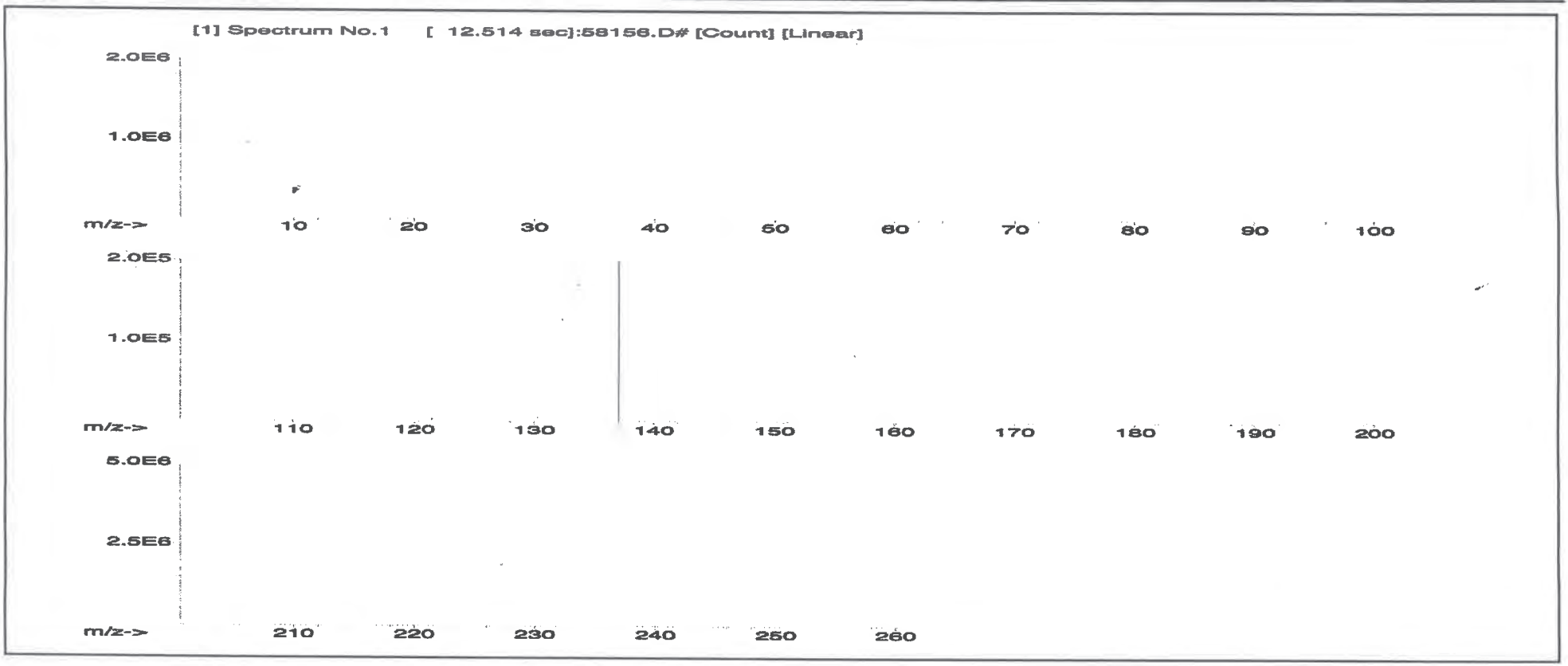
		Lot #	
Solvent:		20510011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

	Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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1031

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Certificate of Analysis

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M5448
R: 04/01/22

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea: Bismuth, Indium, Rhodium, Terbium, Holmium, 6-Lithium, Scandium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/14/23 M5468

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1039

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 120922
Description: Magnesium (Mg)

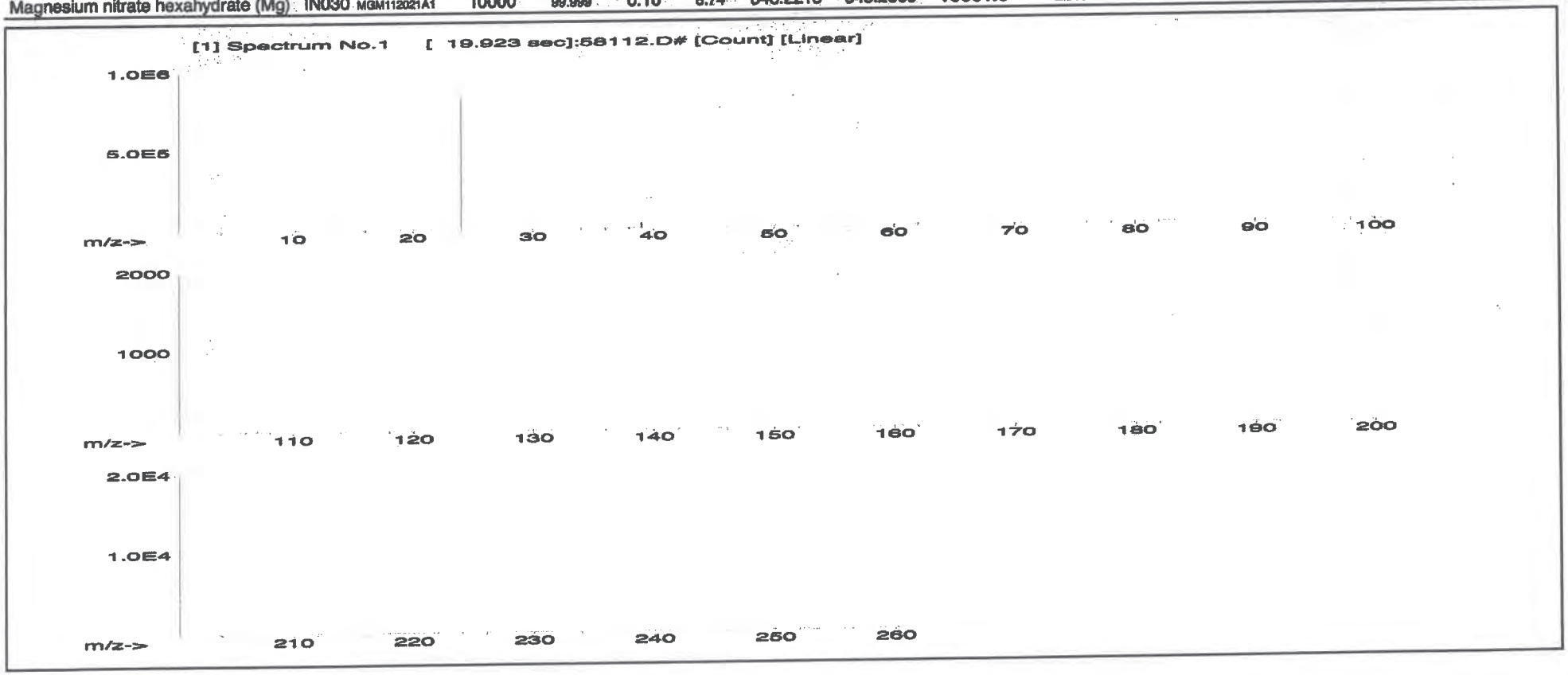
Expiration Date: 120925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

	Lot #	
Solvent:	20510011	Nitric Acid
2%	60.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	120922
Reviewed By:	Pedro L. Rentas	120922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1040

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

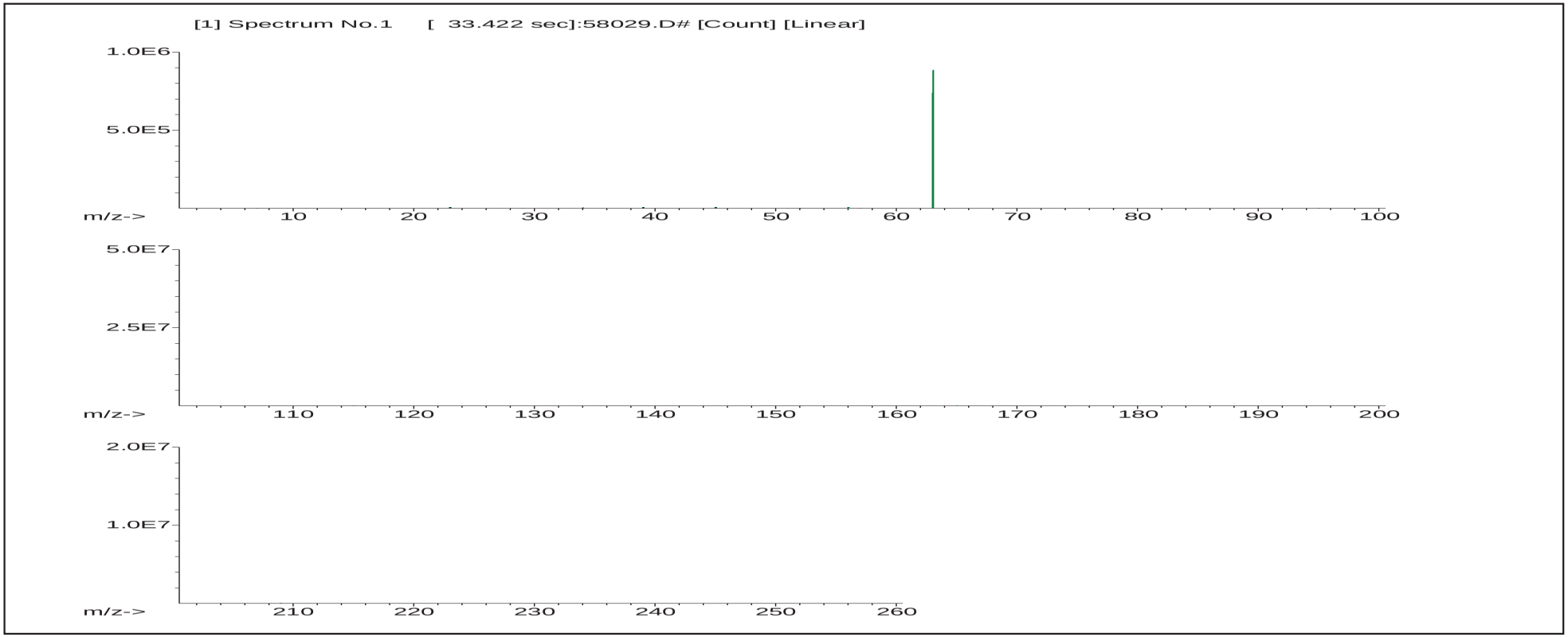
1041

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	20510011	Nitric Acid	
Lot Number:	**102622**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102625			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Eli Aliaga	102622
Reviewed By:	Pedro L. Rentas	102622

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



1042

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium,
	1 000 µg/mL ea: Iron,
	500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,
	250 µg/mL ea: Copper,
	200 µg/mL ea: Chromium,
	50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method I with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

RE 03/16/23, M5469, M5470, M5471, M5472

1062

CERTIFIED WEIGHT REPORT:

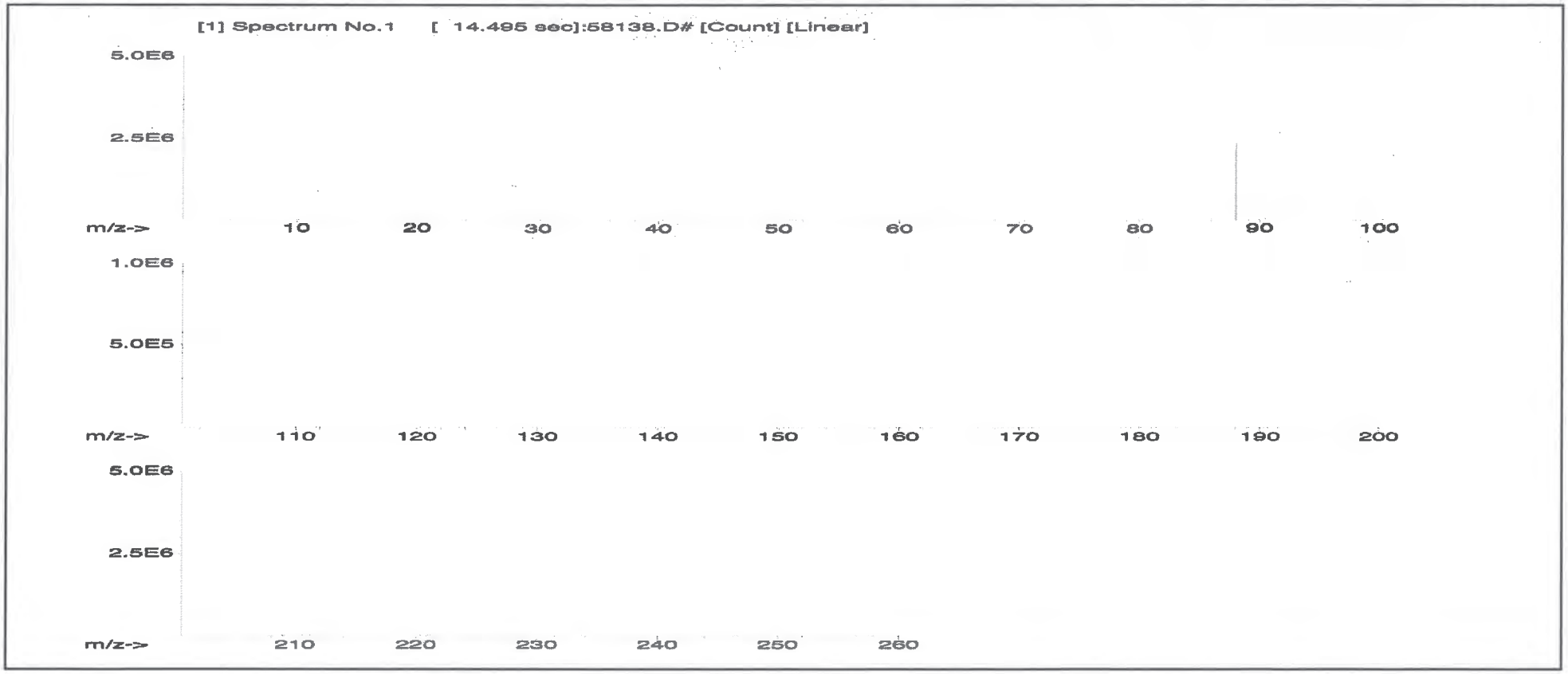
Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



1063

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1064

R: 03/16/23 M5473 M5474, M5475, M5476

CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

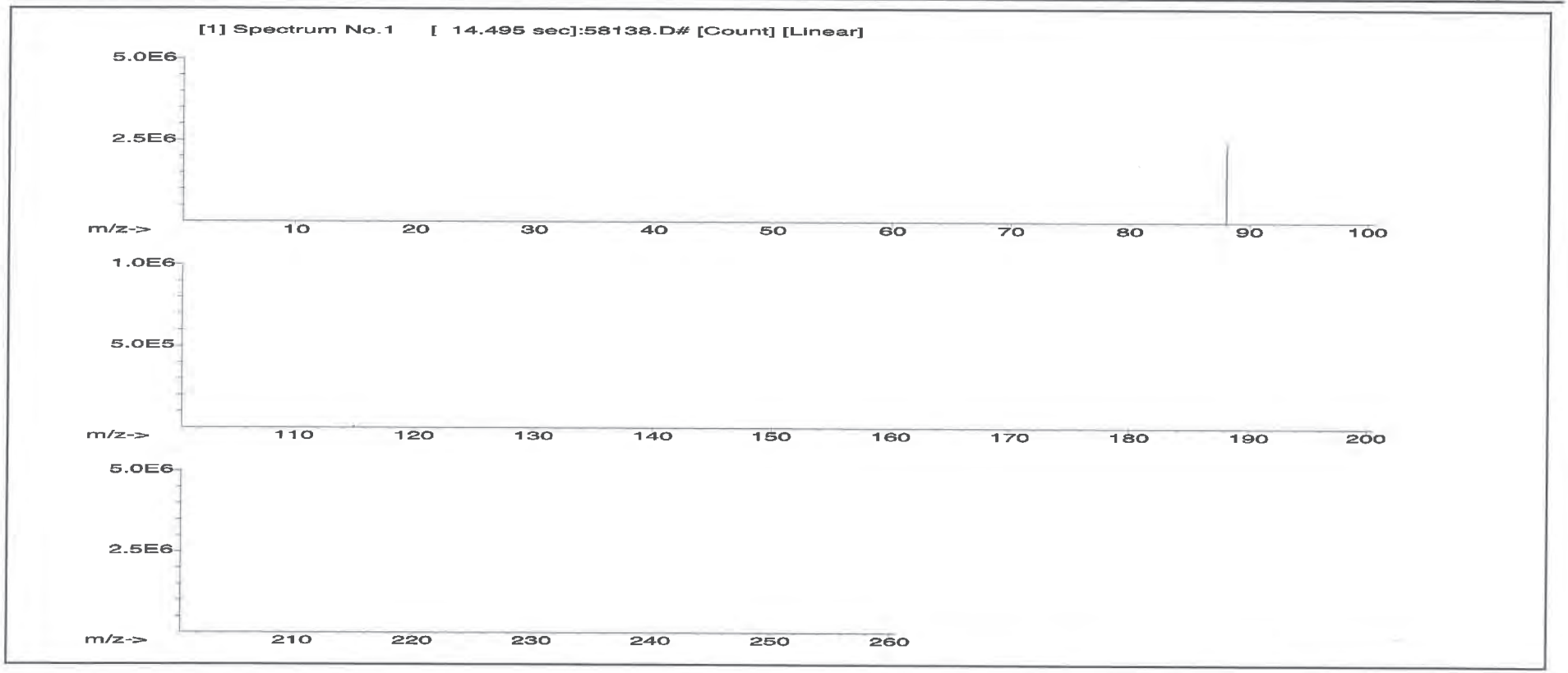
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 082922
Reviewed By: Pedro L. Rentas 082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



1065

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153993

SOP ID : M200.8-Trace Elements-21, MSFAM01.1-Metals ICPMS-2

SDG No : MH0F51

Start Digest Date: 07/07/2023 **Time :** 10:00 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 07/07/2023 **Time :** 10:30 **Temp :** 95 °C

Pippete ID: ICP A

Digestion tube ID: M5593

Balance ID : M SC-2

Block thermometer ID: MET-DIG. #3

Filter paper ID : N/A

Dig Technician Signature: AU

pH Strip ID : N/A

Supervisor Signature: BH

Hood ID : #3

Block ID: **1.** HOT BLOCK#3 **2.** N/A

Temp : **1.** 95°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP76247
Spike Sol. B	1.00	MP76131
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP75962
1:4 HCl Solution	10.00	MP74931
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/7/23 10:45	AU/Dig. Lab	BH/Dig Lab
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153993

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
O3448-01	MH0F51	N/A	1.08	500	Brown	Brown	Medium	N/A	N/A	3-1
O3448-02	MH0F54	N/A	1.36	500	Brown	Brown	Medium	N/A	N/A	2
O3448-03	MH0F55	N/A	1.30	500	Brown	Brown	Medium	N/A	N/A	3
O3448-04	MH0F56	N/A	1.26	500	Brown	Brown	Medium	N/A	N/A	4
O3448-05	MH0F57	N/A	1.14	500	Brown	Brown	Medium	N/A	N/A	5
O3448-06	MH0F58	N/A	1.17	500	Brown	Brown	Medium	N/A	N/A	6
O3448-07	MH0F59	N/A	1.24	500	Brown	Brown	Medium	N/A	N/A	7
O3448-08	MH0F60	N/A	1.10	500	Brown	Brown	Medium	N/A	N/A	8
O3448-09	MH0F61	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	9
O3448-10	MH0F62	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	10
O3448-11	MH0F63	N/A	1.09	500	Brown	Brown	Medium	N/A	N/A	11
O3448-12	MH0F68	N/A	1.34	500	Brown	Brown	Medium	N/A	N/A	12
O3448-13	MH0F68D	N/A	1.34	500	Brown	Brown	Medium	N/A	N/A	13
O3448-14	MH0F68S	N/A	1.42	500	Brown	Brown	Medium	N/A	MP76131	14
O3448-15	MH0F69	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	15
O3448-16	MH0F70	N/A	1.25	500	Brown	Brown	Medium	N/A	N/A	16
O3448-17	MH0F71	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	17
O3448-18	MH0F72	N/A	1.39	500	Brown	Brown	Medium	N/A	N/A	18
O3448-19	MH0F73	N/A	1.13	500	Brown	Brown	Medium	N/A	N/A	19
O3448-20	MH0F74	N/A	1.12	500	Brown	Brown	Medium	N/A	N/A	20
O3448-21	MH0F75	N/A	1.48	500	Brown	Brown	Medium	N/A	N/A	21
O3448-22	MH0F76	N/A	1.27	500	Brown	Brown	Medium	N/A	N/A	22
PB153993BL	PBS993	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	23
PB153993BS	LCS993	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP76247	24

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE075	TUNE	07/12/23 09:39		Jaswal	OK
2	S00	S0	CAL1	07/12/23 12:09		Jaswal	OK
3	S02	S02	CAL3	07/12/23 12:12		Jaswal	OK
4	S03	S03	CAL4	07/12/23 12:15		Jaswal	OK
5	S04	S04	CAL5	07/12/23 12:18		Jaswal	OK
6	S05	S05	CAL6	07/12/23 12:21		Jaswal	OK
7	S06	S06	CAL7	07/12/23 12:24		Jaswal	OK
8	S07	S07	CAL8	07/12/23 12:27		Jaswal	OK
9	S08	S08	CAL9	07/12/23 12:30		Jaswal	OK
10	ICV075	ICV075	ICV	07/12/23 13:14		Jaswal	OK
11	ICB075	ICB075	ICB	07/12/23 13:17		Jaswal	OK
12	ICSA075	ICSA075	ICSA	07/12/23 13:20		Jaswal	OK
13	ICSAB075	ICSAB075	ICSAB	07/12/23 13:23		Jaswal	OK
14	CCV023	CCV023	CCV	07/12/23 13:26	%RSD Fail For Ca	Jaswal	OK
15	CCB023	CCB023	CCB	07/12/23 13:29		Jaswal	OK
16	PB154039BL	PBW039	MB	07/12/23 13:32	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
17	PB154039BS	LCS039	LCS	07/12/23 13:35	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
18	O3524-01	MH0F96	SAM	07/12/23 13:38	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
19	O3524-02	MH0F97	SAM	07/12/23 13:41	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
20	O3524-03	MH0F97D	DUP	07/12/23 13:44	CCV023 %RSD Fail For Ca	Jaswal	Not Ok

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

21	O3524-02L	MH0F97L	SD	07/12/23 13:47	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
22	O3524-04	MH0F97S	MS	07/12/23 13:50	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
23	O3524-05	MH0F98	SAM	07/12/23 13:53	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
24	O3524-06	MH0F99	SAM	07/12/23 13:56	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
25	O3524-07	MH0FA0	SAM	07/12/23 13:59	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
26	PB153920BL	PBS920	MB	07/12/23 14:05		Jaswal	OK
27	PB153920BS	LCS920	LCS	07/12/23 14:09		Jaswal	OK
28	O3446-01	MH0F02	SAM	07/12/23 14:12		Jaswal	OK
29	O3446-02	MH0F02D	DUP	07/12/23 14:15		Jaswal	OK
30	O3446-01L	MH0F02L	SD	07/12/23 14:18		Jaswal	OK
31	O3446-03	MH0F02S	MS	07/12/23 14:21	MS Fail For AS	Jaswal	OK
32	O3446-04	MH0F03	SAM	07/12/23 14:24		Jaswal	OK
33	O3446-05	MH0F07	SAM	07/12/23 14:27		Jaswal	OK
34	O3446-06	MH0F08	SAM	07/12/23 14:30		Jaswal	OK
35	O3446-07	MH0F09	SAM	07/12/23 14:33		Jaswal	OK
36	O3446-08	MH0F10	SAM	07/12/23 14:35		Jaswal	OK
37	O3446-09	MH0F11	SAM	07/12/23 14:38		Jaswal	OK
38	O3446-10	MH0F12	SAM	07/12/23 14:41		Jaswal	OK
39	O3446-11	MH0F13	SAM	07/12/23 14:44		Jaswal	OK
40	O3446-12	MH0F14	SAM	07/12/23 14:47		Jaswal	OK
41	O3446-13	MH0F27	SAM	07/12/23 14:50		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

42	O3446-14	MH0F28	SAM	07/12/23 14:53		Jaswal	OK
43	O3446-15	MH0F29	SAM	07/12/23 14:56		Jaswal	OK
44	CCV024	CCV024	CCV	07/12/23 15:05		Jaswal	OK
45	CCB024	CCB024	CCB	07/12/23 15:08		Jaswal	OK
46	O3446-16	MH0F30	SAM	07/12/23 15:11		Jaswal	OK
47	O3446-17	MH0F31	SAM	07/12/23 15:14		Jaswal	OK
48	O3446-18	MH0F32	SAM	07/12/23 15:17		Jaswal	OK
49	O3446-19	MH0F33	SAM	07/12/23 15:20		Jaswal	OK
50	O3446-20	MH0F34	SAM	07/12/23 15:23		Jaswal	OK
51	O3446-21	MH0F35	SAM	07/12/23 15:26		Jaswal	OK
52	O3446-22	MH0F36	SAM	07/12/23 15:29		Jaswal	OK
53	O3446-01A	MH0F02A	PS	07/12/23 15:32	PS For As	Jaswal	OK
54	PB153921BL	PBS921	MB	07/12/23 15:38		Jaswal	OK
55	PB153921BS	LCS921	LCS	07/12/23 15:41		Jaswal	OK
56	O3447-01	MH0F15	SAM	07/12/23 15:44		Jaswal	OK
57	O3447-02	MH0F16	SAM	07/12/23 15:47		Jaswal	OK
58	O3447-03	MH0F17	SAM	07/12/23 15:50	INT. STD 89m(1) 2_Fail	Jaswal	Dilution
59	O3447-04	MH0F18	SAM	07/12/23 15:53	INT. STD 89m(1) 2_Fail	Jaswal	Dilution
60	O3447-05	MH0F21	SAM	07/12/23 15:56		Jaswal	OK
61	O3447-06	MH0F22	SAM	07/12/23 15:59		Jaswal	OK
62	O3447-07	MH0F23	SAM	07/12/23 16:02		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

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Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

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ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

63	O3447-08	MH0F23D	DUP	07/12/23 16:05		Jaswal	OK
64	O3447-07L	MH0F23L	SD	07/12/23 16:08		Jaswal	OK
65	O3447-09	MH0F23S	MS	07/12/23 16:11	MS Fail For Yn	Jaswal	OK
66	O3447-10	MH0F24	SAM	07/12/23 16:14		Jaswal	OK
67	O3447-11	MH0F25	SAM	07/12/23 16:17		Jaswal	OK
68	O3447-12	MH0F26	SAM	07/12/23 16:20		Jaswal	OK
69	O3447-13	MH0F37	SAM	07/12/23 16:23		Jaswal	OK
70	O3447-14	MH0F38	SAM	07/12/23 16:26		Jaswal	OK
71	O3447-15	MH0F39	SAM	07/12/23 16:29		Jaswal	OK
72	O3447-16	MH0F40	SAM	07/12/23 16:32		Jaswal	OK
73	O3447-17	MH0F45	SAM	07/12/23 16:35		Jaswal	OK
74	O3447-18	MH0F46	SAM	07/12/23 16:38		Jaswal	OK
75	CCV025	CCV025	CCV	07/12/23 16:50		Jaswal	OK
76	CCB025	CCB025	CCB	07/12/23 16:54		Jaswal	OK
77	O3447-19	MH0F47	SAM	07/12/23 16:57		Jaswal	OK
78	O3447-20	MH0F48	SAM	07/12/23 17:00		Jaswal	OK
79	O3447-21	MH0F49	SAM	07/12/23 17:03		Jaswal	OK
80	O3447-22	MH0F50	SAM	07/12/23 17:06		Jaswal	OK
81	O3447-03DL	MH0F17	SAM	07/12/23 17:09	2& For INT. STD 89m(1) 2_	Jaswal	ConZrX s
82	O3447-04DL	MH0F18	SAM	07/12/23 17:12	2& For INT. STD 89m(1) 2_	Jaswal	ConZrX s
83	O3447-07A	MH0F23A	PS	07/12/23 17:14	PS For Yn(0f0046X I X 4891-10X I saX ple_	Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

84	PB153993BL	PBS993	MB	07/12/23 17:19		Jaswal	OK
85	PB153993BS	LCS993	LCS	07/12/23 17:22		Jaswal	OK
86	O3448-12	MH0F68	SAM	07/12/23 17:26		Jaswal	OK
87	O3448-13	MH0F68D	DUP	07/12/23 17:28		Jaswal	OK
88	O3448-12L	MH0F68L	SD	07/12/23 17:31		Jaswal	OK
89	O3448-14	MH0F68S	MS	07/12/23 17:34		Jaswal	OK
90	O3448-05	MH0F57	SAM	07/12/23 17:37		Jaswal	OK
91	O3448-06	MH0F58	SAM	07/12/23 17:41		Jaswal	OK
92	O3448-07	MH0F59	SAM	07/12/23 17:44		Jaswal	OK
93	O3448-08	MH0F60	SAM	07/12/23 17:47		Jaswal	OK
94	O3448-09	MH0F61	SAM	07/12/23 17:50		Jaswal	OK
95	O3448-10	MH0F62	SAM	07/12/23 17:52		Jaswal	OK
96	O3448-11	MH0F63	SAM	07/12/23 17:55		Jaswal	OK
97	O3448-01	MH0F51	SAM	07/12/23 17:58		Jaswal	OK
98	O3448-02	MH0F54	SAM	07/12/23 18:01		Jaswal	OK
99	O3448-03	MH0F55	SAM	07/12/23 18:04		Jaswal	OK
100	O3448-04	MH0F56	SAM	07/12/23 18:07		Jaswal	OK
101	O3448-15	MH0F69	SAM	07/12/23 18:10		Jaswal	OK
102	O3448-16	MH0F70	SAM	07/12/23 18:13		Jaswal	OK
103	O3448-17	MH0F71	SAM	07/12/23 18:16		Jaswal	OK
104	O3448-18	MH0F72	SAM	07/12/23 18:19		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

105	O3448-19	MH0F73	SAM	07/12/23 18:22		Jaswal	OK
106	CCV026	CCV026	CCV	07/12/23 18:44		Jaswal	OK
107	CCB026	CCB026	CCB	07/12/23 18:48		Jaswal	OK
108	O3448-20	MH0F74	SAM	07/12/23 18:51		Jaswal	OK
109	O3448-21	MH0F75	SAM	07/12/23 18:54		Jaswal	OK
110	O3448-22	MH0F76	SAM	07/12/23 18:56		Jaswal	OK
111	PB153966BL	PBS966	MB	07/12/23 19:01		Jaswal	OK
112	PB153966BS	LCS966	LCS	07/12/23 19:04		Jaswal	OK
113	O3433-04	MJVA92	SAM	07/12/23 19:07		Jaswal	OK
114	O3433-05	MJVA92D	DUP	07/12/23 19:10		Jaswal	OK
115	O3433-04L	MJVA92L	SD	07/12/23 19:13		Jaswal	OK
116	O3433-06	MJVA92S	MS	07/12/23 19:16		Jaswal	OK
117	O3450-04	MH0F80	SAM	07/12/23 19:19		Jaswal	OK
118	O3450-05	MH0F80D	DUP	07/12/23 19:22		Jaswal	OK
119	O3450-04L	MH0F80L	SD	07/12/23 19:25		Jaswal	OK
120	O3450-06	MH0F80S	MS	07/12/23 19:28		Jaswal	OK
121	O3449-01	MH0F81	SAM	07/12/23 19:31		Jaswal	OK
122	O3449-02	MH0F81D	DUP	07/12/23 19:34		Jaswal	OK
123	O3449-01LRE	MH0F81L	SD	07/12/23 19:37	Not Use	Jaswal	Not Ok
124	O3449-03	MH0F81S	MS	07/12/23 19:40	MS Fail For Ba	Jaswal	OK
125	O3449-01L	MH0F81L	SD	07/12/23 19:43		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

126	O3433-01	MJVA80	SAM	07/12/23 19:46		Jaswal	OK
127	O3433-02	MJVA90	SAM	07/12/23 19:49		Jaswal	OK
128	O3433-03	MJVA91	SAM	07/12/23 19:52		Jaswal	OK
129	O3450-01	MH0F01	SAM	07/12/23 19:55		Jaswal	OK
130	O3450-02	MH0F05	SAM	07/12/23 19:58		Jaswal	OK
131	O3450-03	MH0F06	SAM	07/12/23 20:01		Jaswal	OK
132	O3449-04	MH0F82	SAM	07/12/23 20:04		Jaswal	OK
133	O3449-05	MH0F83	SAM	07/12/23 20:07		Jaswal	OK
134	O3449-06	MH0F84	SAM	07/12/23 20:10		Jaswal	OK
135	O3449-07	MH0F85	SAM	07/12/23 20:13		Jaswal	OK
136	O3449-08	MH0F86	SAM	07/12/23 20:16		Jaswal	OK
137	CCV027	CCV027	CCV	07/12/23 20:32		Jaswal	OK
138	CCB027	CCB027	CCB	07/12/23 20:36		Jaswal	OK
139	O3449-09	MH0F87	SAM	07/12/23 20:39		Jaswal	OK
140	O3449-10	MH0F88	SAM	07/12/23 20:42		Jaswal	OK
141	O3433-04A	MJVA92A	PS	07/12/23 20:45	Not Required	Jaswal	Not Ok
142	O3449-01A	MH0F81A	PS	07/12/23 20:48	PS For Ba(0f0082X I X 5387-10X I saX ple_	Jaswal	OK
143	CCV028	CCV028	CCV	07/12/23 20:55		Jaswal	OK
144	CCB028	CCB028	CCB	07/12/23 20:58		Jaswal	OK

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 24.95 LB
CAD: 6754017/SSF02422
DIMS: 26x14x14 IN

BILL THIRD PARTY

Part # 156297-435-BFGSS2 FEB 05/24

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24

INV:
PO: DEPT:

cl.
6/27/23
13:30
21.2 c

FedEx Express

E

MN 1059404230232

4 of 6

MPS# 0263 **7802 8789 1548**

Mstr# 7802 8789 1515

0201

TE KBCA

TUE - 27 JUN 4:30P
**** 2DAY ****

07092
NJ-US **EWR**

Copy

Original Documents are included in CSF MH0502

Signature

6/27/23

Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 12.65 LB
CAD: 6754017/SSF02422
DIMS: 17x10x15 IN

BILL THIRD PARTY

Part # 156287-436-BRRRR-EWR-05/24

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 726-3140 REF: HIGHWAY 24
INV:
PO: DEPT:

6/27/23
13:30
19-3

FedEx Express

AB 10504020232T

5 of 6

MPS# 0263 **7802 8789 1559**

Mstr# 7802 8789 1515 0201

TE KBCA

TUE - 27 JUN 4:30P
**** 2DAY ****

07092
NJ-US **EWR**

ORIGIN ID:DENH (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 50.40 LB
CAD: 6754017/SSF02422
DIMS: 24x14x14 IN
BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092
REF: HIGHWAY 24
DEPT:

6/27/23
13:30
19:1

FedEx Express

6 of 6
MPS# 7802 8789 1560
Mstr# 7802 8789 1515

TUE - 27 JUN 4:30P
** 2DAY **

0201

TE KBCA

07092
NJ-US EWR

Part # 156297-435-PR082-FSB 04/24

1077

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3448	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Sohil
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	6/30/2023 9:44:50 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3448-01	MH0F51	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-02	MH0F54	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-03	MH0F55	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-04	MH0F56	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-05	MH0F57	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-06	MH0F58	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-07	MH0F59	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-08	MH0F60	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-09	MH0F61	Solid	06/12/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-10	MH0F62	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

O3448-11	MH0F63	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-12	MH0F68	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-13	MH0F68D	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-14	MH0F68S	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-15	MH0F69	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-16	MH0F70	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-17	MH0F71	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-18	MH0F72	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-19	MH0F73	Solid	06/13/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-20	MH0F74	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-21	MH0F75	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3448-22	MH0F76	Solid	06/12/2023					
				Metals CLP MS FULL	SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153993 **WorkList ID :** 171604 **Department :** Digestion **Date :** 07-07-2023 09:43:09

1080

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3448-01	MH0F51	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/13/2023	SFAM_MS
O3448-02	MH0F54	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-03	MH0F55	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-04	MH0F56	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-05	MH0F57	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-06	MH0F58	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-19	MH0F73	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/13/2023	SFAM_MS
O3448-20	MH0F74	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-21	MH0F75	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-22	MH0F76	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-13	MH0F68D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-14	MH0F68S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-15	MH0F69	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-16	MH0F70	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/13/2023	SFAM_MS
O3448-17	MH0F71	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/13/2023	SFAM_MS
O3448-18	MH0F72	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/13/2023	SFAM_MS
O3448-07	MH0F59	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-08	MH0F60	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-09	MH0F61	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS
O3448-10	MH0F62	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/13/2023	SFAM_MS
O3448-11	MH0F63	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/13/2023	SFAM_MS

Date/Time 7/7/23 9:45

Raw Sample Received by: Al Bigiah

Raw Sample Relinquished by: CL SM

Date/Time 7/7/23 10:30

Raw Sample Received by: CL SM

Raw Sample Relinquished by: Al Bigiah

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153993 **WorkList ID :** 171604 **Department :** Digestion **Date :** 07-05-2023 10:43:09

1081

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3448-12	MH0F68	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B42	06/12/2023	SFAM_MS

Date/Time 7/7/23 9:45
Raw Sample Received by: AH/Dig Lab
Raw Sample Relinquished by: CD JM

Date/Time 7/7/23 10:30
Raw Sample Received by: CD JM
Raw Sample Relinquished by: AH/Dig Lab

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0F81

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0F81	O3449-01		X		
MH0F81D	O3449-02		X		
MH0F81S	O3449-03		X		
MH0F82	O3449-04		X		
MH0F83	O3449-05		X		
MH0F84	O3449-06		X		
MH0F85	O3449-07		X		
MH0F86	O3449-08		X		
MH0F87	O3449-09		X		
MH0F88	O3449-10		X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name: APPROVED

By Nimisha Pandya QA/QC Supervisor at 12:05 pm, Jul 17, 2023

Date: 7/17/2023 Title:

68HERH20D0011 SDG # MH0F81

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS01-0-1-DUP	MH0F81	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1216, 1217 (6)	1	06/13/2023 10:00	5 1
HWY-SS01-1-6-DUP	MH0F82	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1218, 1219 (6)	1	06/13/2023 10:00	5 2
HWY-SS13-0-1-DUP	MH0F83	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1220, 1221 (2)	13	06/12/2023 15:15	5 3
HWY-SS13-1-6-DUP	MH0F84	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1222, 1223 (2)	13	06/12/2023 15:15	5 4
HWY-SS22-0-1-DUP	MH0F85	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1224, 1225 (2)	22	06/12/2023 15:18	5 5
HWY-SS22-1-6-DUP	MH0F86	Soil/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1226, 1227 (2)	22	06/12/2023 15:18	5 6
HWY-SS29-0-1-DUP	MH0F87	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1228, 1229 (2)	29	06/12/2023 14:30	5 7
HWY-SS29-1-6-DUP	MH0F88	Soil/ Ieyoub_Patrick	Composite	ICP-MS(21), Hg(21)	1230, 1231 (2)	29	06/12/2023 14:30	5 8
HWY-SS-EB-1	MH0F89	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21)	1232, 1233 (2)	Field QC	06/13/2023 08:07	5
HWY-SS-EB-2	MH0F90	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21)	1234, 1235 (2)	Field QC	06/13/2023 08:07	5

Sample(s) to be used for Lab QC: HWY-SS01-0-1-DUP Tag 1217, HWY-SS01-1-6-DUP Tag 1218, HWY-SS01-1-6-DUP Tag 1219	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	Ice Cooler #1
					Custody Seal Intact
					No temp Blank
					17.8, 20.1, 21.2, 19.3, 19.1

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 1
Received By (Print Name) Cassanova Reina		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F81	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891560 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	19.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11 Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F81	N/A	1216,17	O3449-01	Intact
2	MH0F81D	N/A	1216,17	O3449-02	Intact
3	MH0F81S	N/A	1216,17	O3449-03	Intact
4	MH0F82	N/A	1218,19	O3449-04	Intact
5	MH0F83	N/A	1220,21	O3449-05	Intact
6	MH0F84	N/A	1222,23	O3449-06	Intact
7	MH0F85	N/A	1224,25	O3449-07	Intact
8	MH0F86	N/A	1226,27	O3449-08	Intact
9	MH0F87	N/A	1228,29	O3449-09	Intact
10	MH0F88	N/A	1230,31	O3449-10	Intact
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook/No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0F81**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	2	✓	
3 . Sample Log-In Sheet (DC-1)	3	3	✓	
4 . CSF Inventory Sheet (DC-2)	4	6	✓	
5 . SDG Narrative	7	10	✓	
6 . Communication Logs	11	32	✓	
7 . Percent Solids Log	33	34	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	35	42	✓	
18 . Instrument raw data by instrument in analysis order	43	946	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	947	1093	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1094	1095	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1096	1102	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	1103	1103	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1104	1104	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1105	1106	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab) N. N. Pandya (Signature) | Nimisha Pandya, Document Control Officer (Print Name & Title) | 7/17/2023 (Date)

Audited by: (EPA) (Signature) | (Print Name & Title) | (Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0F81
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3449

A. Number of Samples and Date of Receipt

08 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Metals CLP MS Full = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium & Zinc.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**
Cooler: 19.1^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 3: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Issue 4: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 5: Air bill numbers are missing on all COCs.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Resolution 4: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 5: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0F81 for Arsenic:

If C = 26.50 ppb
Vf = 500 ml
W = 1.13 g
S = 1(100/100)
DF = 1

$$\text{Concentration (mg/kg)} = 26.50 \times \frac{500}{1.13 \times 1} \times 1 / 1000$$

$$= 11.7256 \text{ mg/kg}$$

$$= 12 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Barium. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc

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284 Sheffield Street
Mountainside, NJ 07092

Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya

Name: Nimisha Pandya

Date 7/17/2023

Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett'; Britz, Helen; Gambrah, Derrick
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL
Attachments: Revised COC_8-061523-134849-0002_v20230707.pdf

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

Tetra Tech | *Leading with Science®*
1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247

303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick

Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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T 703.995.5356
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www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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Information Technology

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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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Think Green - Not every email needs to be printed

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen'

<Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,
Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356

Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

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Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

CHEMTECH

PERCENT SOLID

Supervisor: Sohil
Analyst: JIGNESH
Date: 7/12/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 14:15
In Date: 06/30/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:55
Out Date: 07/01/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126272

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3449-01	MH0F81	1	1.00	1.00	2.00	2.00	100.0	
O3449-02	MH0F81D	2	1.00	1.00	2.00	2.00	100.0	
O3449-03	MH0F81S	3	1.00	1.00	2.00	2.00	100.0	
O3449-04	MH0F82	4	1.00	1.00	2.00	2.00	100.0	
O3449-05	MH0F83	5	1.00	1.00	2.00	2.00	100.0	
O3449-06	MH0F84	6	1.00	1.00	2.00	2.00	100.0	
O3449-07	MH0F85	7	1.00	1.00	2.00	2.00	100.0	
O3449-08	MH0F86	8	1.00	1.00	2.00	2.00	100.0	
O3449-09	MH0F87	9	1.00	1.00	2.00	2.00	100.0	
O3449-10	MH0F88	10	1.00	1.00	2.00	2.00	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

VB126272

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3449 **WorkList ID :** 171519 **Department :** Wet-Chemistry **Date :** 06-30-2023 13:25:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3449-01	MH0F81	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/13/2023	Chemtech -SO
O3449-02	MH0F81D	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/13/2023	Chemtech -SO
O3449-03	MH0F81S	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/13/2023	Chemtech -SO
O3449-04	MH0F82	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/13/2023	Chemtech -SO
O3449-05	MH0F83	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/12/2023	Chemtech -SO
O3449-06	MH0F84	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/12/2023	Chemtech -SO
O3449-07	MH0F85	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/12/2023	Chemtech -SO
O3449-08	MH0F86	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/12/2023	Chemtech -SO
O3449-09	MH0F87	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/12/2023	Chemtech -SO
O3449-10	MH0F88	Solid	Percent Solids	Cool 4 deg C	USEP01	B41	06/12/2023	Chemtech -SO

34

Date/Time 06/20/23 13:30
Raw Sample Received by: JD (WC)
Raw Sample Relinquished by: JT (SM)

Date/Time 06/20/23 14:20
Raw Sample Received by: JT (SM)
Raw Sample Relinquished by: JD (WC)

EPA SAMPLE NO.

MH0F81

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-01

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.39	J	07/12/2023	1931
7440-38-2	Arsenic	12		07/12/2023	1931
7440-39-3	Barium	180	*	07/12/2023	1931
7440-41-7	Beryllium	0.79		07/12/2023	1931
7440-43-9	Cadmium	0.76		07/12/2023	1931
7440-47-3	Chromium	10		07/12/2023	1931
7440-48-4	Cobalt	7.4		07/12/2023	1931
7440-50-8	Copper	36		07/12/2023	1931
7439-92-1	Lead	39		07/12/2023	1931
7439-96-5	Manganese	430		07/12/2023	1931
7440-02-0	Nickel	15		07/12/2023	1931
7782-49-2	Selenium	0.70	J	07/12/2023	1931
7440-22-4	Silver	0.19	J	07/12/2023	1931
7440-28-0	Thallium	0.16	J	07/12/2023	1931
7440-62-2	Vanadium	26		07/12/2023	1931
7440-66-6	Zinc	140		07/12/2023	1931

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F82

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-04

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.23	J	07/12/2023	2004
7440-38-2	Arsenic	13		07/12/2023	2004
7440-39-3	Barium	200	*	07/12/2023	2004
7440-41-7	Beryllium	0.79		07/12/2023	2004
7440-43-9	Cadmium	0.53		07/12/2023	2004
7440-47-3	Chromium	13		07/12/2023	2004
7440-48-4	Cobalt	9.7		07/12/2023	2004
7440-50-8	Copper	28		07/12/2023	2004
7439-92-1	Lead	34		07/12/2023	2004
7439-96-5	Manganese	430		07/12/2023	2004
7440-02-0	Nickel	20		07/12/2023	2004
7782-49-2	Selenium	0.89	J	07/12/2023	2004
7440-22-4	Silver	0.15	J	07/12/2023	2004
7440-28-0	Thallium	0.17	J	07/12/2023	2004
7440-62-2	Vanadium	31		07/12/2023	2004
7440-66-6	Zinc	120		07/12/2023	2004

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F83

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-05

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.2		07/12/2023	2007
7440-38-2	Arsenic	24		07/12/2023	2007
7440-39-3	Barium	310	*	07/12/2023	2007
7440-41-7	Beryllium	1.6		07/12/2023	2007
7440-43-9	Cadmium	1.7		07/12/2023	2007
7440-47-3	Chromium	19		07/12/2023	2007
7440-48-4	Cobalt	6.7		07/12/2023	2007
7440-50-8	Copper	55		07/12/2023	2007
7439-92-1	Lead	280		07/12/2023	2007
7439-96-5	Manganese	640		07/12/2023	2007
7440-02-0	Nickel	15		07/12/2023	2007
7782-49-2	Selenium	0.67	J	07/12/2023	2007
7440-22-4	Silver	0.52		07/12/2023	2007
7440-28-0	Thallium	0.16	J	07/12/2023	2007
7440-62-2	Vanadium	34		07/12/2023	2007
7440-66-6	Zinc	520		07/12/2023	2007

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F84

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-06

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.41	J	07/12/2023	2010
7440-38-2	Arsenic	20		07/12/2023	2010
7440-39-3	Barium	220	*	07/12/2023	2010
7440-41-7	Beryllium	1.0		07/12/2023	2010
7440-43-9	Cadmium	0.77		07/12/2023	2010
7440-47-3	Chromium	13		07/12/2023	2010
7440-48-4	Cobalt	6.8		07/12/2023	2010
7440-50-8	Copper	31		07/12/2023	2010
7439-92-1	Lead	84		07/12/2023	2010
7439-96-5	Manganese	490		07/12/2023	2010
7440-02-0	Nickel	16		07/12/2023	2010
7782-49-2	Selenium	0.46	J	07/12/2023	2010
7440-22-4	Silver	0.26	J	07/12/2023	2010
7440-28-0	Thallium	0.18	J	07/12/2023	2010
7440-62-2	Vanadium	33		07/12/2023	2010
7440-66-6	Zinc	150		07/12/2023	2010

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F85

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-07

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.26	J	07/12/2023	2013
7440-38-2	Arsenic	6.6		07/12/2023	2013
7440-39-3	Barium	83	*	07/12/2023	2013
7440-41-7	Beryllium	0.37	J	07/12/2023	2013
7440-43-9	Cadmium	0.71		07/12/2023	2013
7440-47-3	Chromium	8.3		07/12/2023	2013
7440-48-4	Cobalt	4.3		07/12/2023	2013
7440-50-8	Copper	12		07/12/2023	2013
7439-92-1	Lead	14		07/12/2023	2013
7439-96-5	Manganese	170		07/12/2023	2013
7440-02-0	Nickel	12		07/12/2023	2013
7782-49-2	Selenium	0.46	J	07/12/2023	2013
7440-22-4	Silver	0.14	J	07/12/2023	2013
7440-28-0	Thallium	0.13	J	07/12/2023	2013
7440-62-2	Vanadium	20		07/12/2023	2013
7440-66-6	Zinc	83		07/12/2023	2013

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F86

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-08

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.23	J	07/12/2023	2016
7440-38-2	Arsenic	9.6		07/12/2023	2016
7440-39-3	Barium	120	*	07/12/2023	2016
7440-41-7	Beryllium	0.51		07/12/2023	2016
7440-43-9	Cadmium	0.91		07/12/2023	2016
7440-47-3	Chromium	12		07/12/2023	2016
7440-48-4	Cobalt	6.5		07/12/2023	2016
7440-50-8	Copper	15		07/12/2023	2016
7439-92-1	Lead	18		07/12/2023	2016
7439-96-5	Manganese	240		07/12/2023	2016
7440-02-0	Nickel	17		07/12/2023	2016
7782-49-2	Selenium	0.44	J	07/12/2023	2016
7440-22-4	Silver	0.19	J	07/12/2023	2016
7440-28-0	Thallium	0.17	J	07/12/2023	2016
7440-62-2	Vanadium	27		07/12/2023	2016
7440-66-6	Zinc	83		07/12/2023	2016

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F82

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH70D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-09

% Solids: 100 Date Received: 06/72/7073

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
2440-36-0	Antimony	0.41	J	02/17/7073	7039
2440-38-7	Arsenic	2.9		02/17/7073	7039
2440-39-3	Barium	110	*	02/17/7073	7039
2440-41-2	Beryllium	1.7		02/17/7073	7039
2440-43-9	Cadmium	0.60		02/17/7073	7039
2440-42-3	Chromium	6.5		02/17/7073	7039
2440-48-4	Cobalt	4.0		02/17/7073	7039
2440-50-8	Copper	14		02/17/7073	7039
2439-97-1	Lead	40		02/17/7073	7039
2439-96-5	Manganese	350		02/17/7073	7039
2440-07-0	Nickel	6.9		02/17/7073	7039
2287-49-7	Selenium	0.54	J	02/17/7073	7039
2440-77-4	Silver	0.20		02/17/7073	7039
2440-78-0	Thallium	0.71	J	02/17/7073	7039
2440-67-7	Vanadium	12		02/17/7073	7039
2440-66-6	Zinc	110		02/17/7073	7039

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F88

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F81

Matrix: SOIL Lab Sample ID: O3449-10

% Solids: 100 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.92		07/12/2023	2042
7440-38-2	Arsenic	20		07/12/2023	2042
7440-39-3	Barium	130	*	07/12/2023	2042
7440-41-7	Beryllium	0.93		07/12/2023	2042
7440-43-9	Cadmium	0.61		07/12/2023	2042
7440-47-3	Chromium	9.9		07/12/2023	2042
7440-48-4	Cobalt	4.4		07/12/2023	2042
7440-50-8	Copper	20		07/12/2023	2042
7439-92-1	Lead	65		07/12/2023	2042
7439-96-5	Manganese	480		07/12/2023	2042
7440-02-0	Nickel	13		07/12/2023	2042
7782-49-2	Selenium	2.1	U	07/12/2023	2042
7440-22-4	Silver	0.72		07/12/2023	2042
7440-28-0	Thallium	0.20	J	07/12/2023	2042
7440-62-2	Vanadium	22		07/12/2023	2042
7440-66-6	Zinc	120		07/12/2023	2042

NOTE: Hardness (total) is reported in mg/L

Comments:

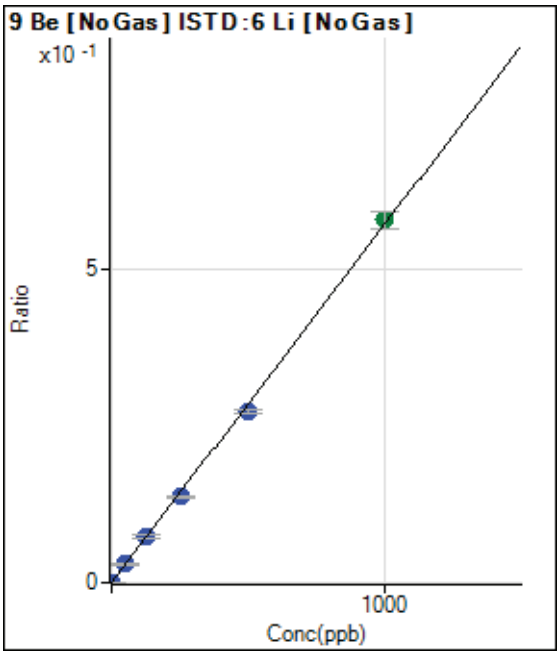
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

Calibration for 160AREF.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071223 MS.b\
Analysis File: P8071223 MS.batch.bin
DA Date-Time: 2023-07-13 00:23:33
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-07-12 12:09:14
2	005CALS.d	S02	2023-07-12 12:12:16
3	006CALS.d	S03	2023-07-12 12:15:20
4	007CALS.d	S04	2023-07-12 12:18:18
5	008CALS.d	S05	2023-07-12 12:21:19
6	009CALS.d	S06	2023-07-12 12:24:17
7	010CALS.d	S07	2023-07-12 12:27:18
8	011CALS.d	S08	2023-07-12 12:30:16

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	27.50	0.0000	P	16.3
2		1.000	0.988	1510.31	0.0006	P	1.8
3		50.000	51.041	72184.15	0.0292	P	4.5
4		125.000	129.205	170713.20	0.0739	P	8.5
5		250.000	239.879	320875.91	0.1371	P	0.9
6		500.000	476.986	610456.96	0.2726	P	2.5
7		1000.000	1013.460	1229631.46	0.5793	A	4.8
8				262.47	0.0001	P	13.9

y = 5.7157E-004 * x + 1.0563E-005

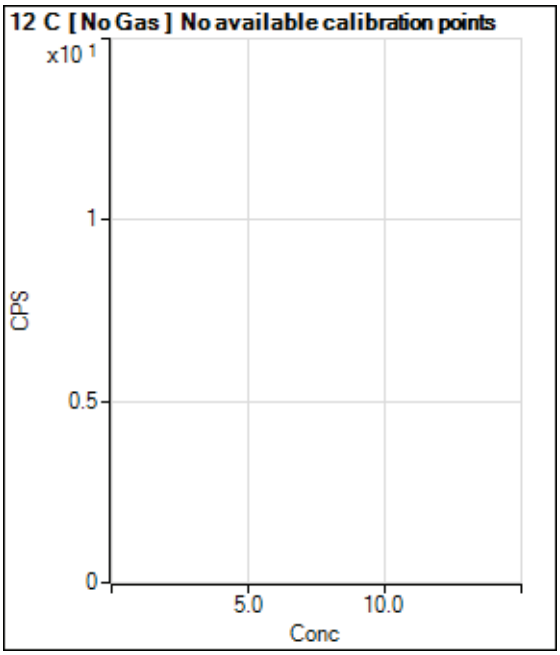
R = 0.9995

DL = 0.009038

BEC = 0.01848

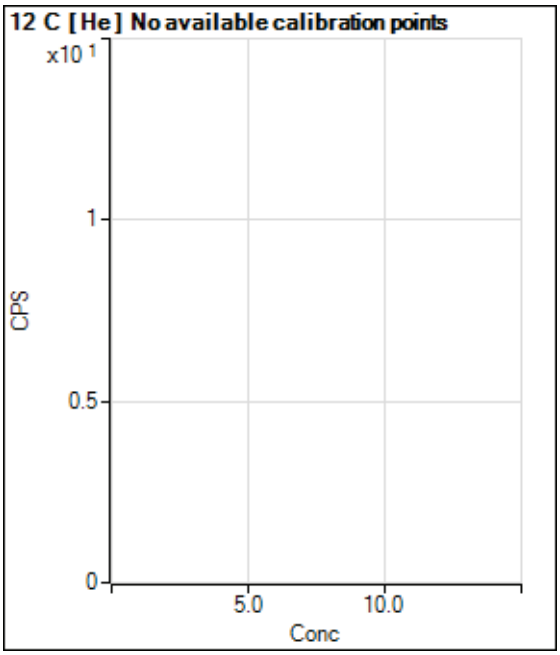
Weight: <None>

Min Conc: 0

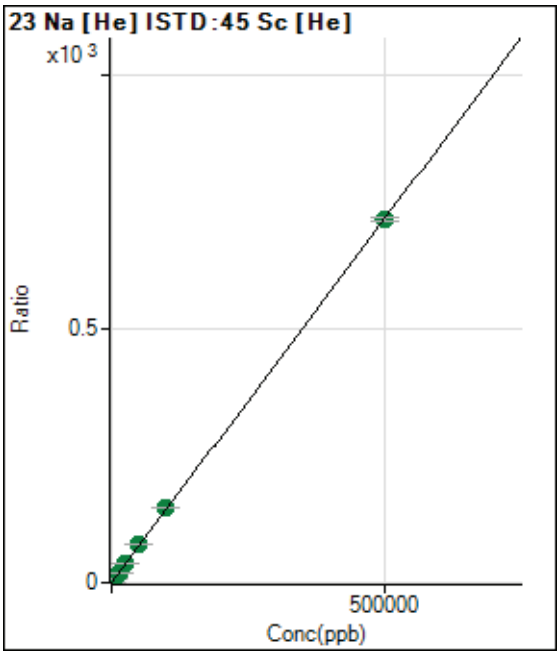


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2342645.15		A	1.2
2				2315175.66		A	1.2
3				2528228.73		A	1.4
4				2481670.78		A	0.2
5				2385645.65		A	1.4
6				2442886.55		A	1.1
7				2508340.38		A	3.1
8				2363346.88		A	3.0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				29591.46		P	3.4
2				29443.98		P	1.5
3				31178.06		P	0.8
4				30810.79		P	1.6
5				30621.29		P	1.4
6				32428.01		P	0.3
7				34680.43		P	3.9
8				34847.47		P	1.5

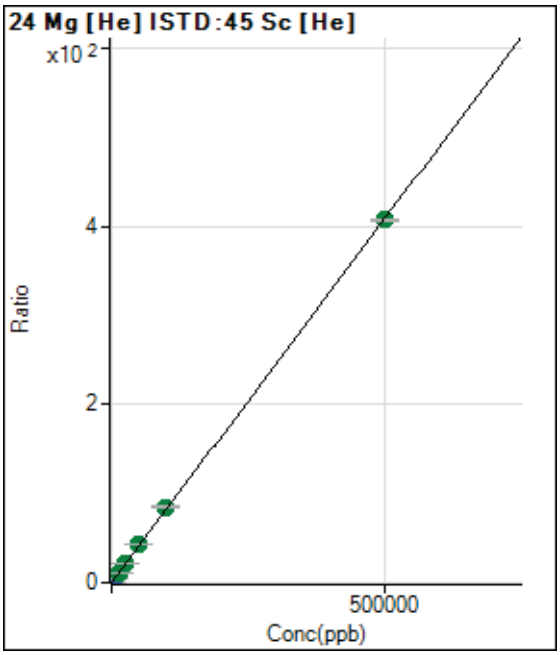


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	20353.51	0.1367	P	2.0
2		500.000	484.701	121660.68	0.8302	P	1.7
3		5000.000	5576.341	1136230.87	8.1148	A	1.6
4		12500.000	13568.820	2629601.60	19.5497	A	0.6
5		25000.000	25734.071	4921470.64	36.9546	A	4.9
6		50000.000	53378.812	9917915.06	76.5060	A	1.4
7		100000.00	103501.81	19873362.42	148.2173	A	1.4
8		500000.00	498892.58	95545543.11	713.9047	A	0.9

y = 0.0014 * x + 0.1367
R = 1.0000
DL = 5.722
BEC = 95.56

Weight: <None>
Min Conc: 0

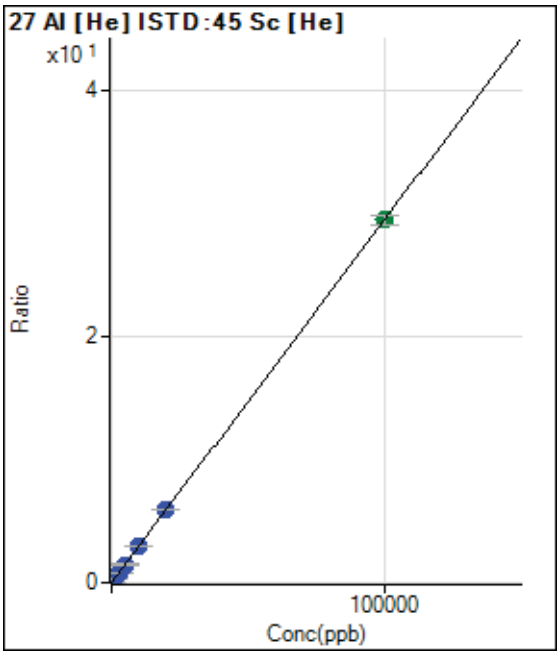
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.00	0.0005	P	68.2
2		500.000	480.583	57528.53	0.3926	P	2.1
3		5000.000	5371.637	613639.56	4.3826	P	1.8
4		12500.000	13767.603	1510656.59	11.2320	A	1.7
5		25000.000	26085.991	2834248.85	21.2812	A	4.7
6		50000.000	52833.024	5587332.41	43.1013	A	1.8
7		100000.00	103692.44	11342111.97	84.5920	A	1.6
8		500000.00	498888.52	54470326.91	406.9897	A	0.3

y = 8.1579E-004 * x + 5.0506E-004
R = 1.0000
DL = 1.266
BEC = 0.6191

Weight: <None>
Min Conc: 0

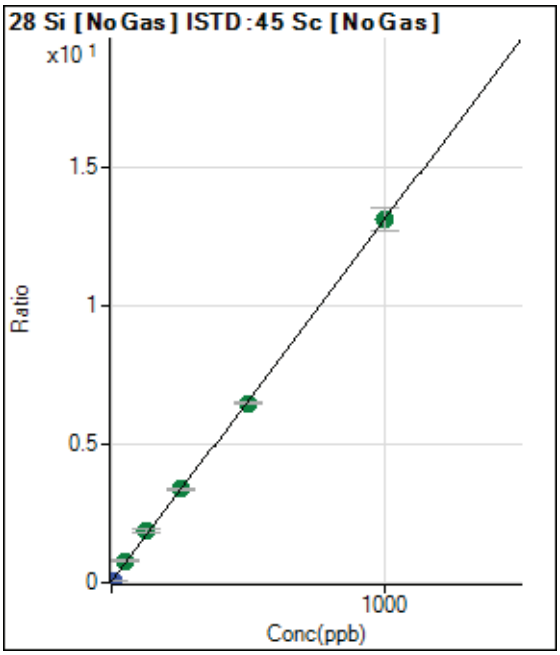


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	102.91	0.0007	P	3.2
2		20.000	19.313	934.92	0.0064	P	1.8
3		1000.000	1054.996	43589.33	0.3113	P	0.6
4		2500.000	2578.388	102196.62	0.7598	P	1.2
5		5000.000	4926.850	193268.65	1.4512	P	4.8
6		10000.000	10180.422	388642.18	2.9979	P	0.8
7		20000.000	19935.137	787093.98	5.8699	P	0.6
8		100000.00	99996.078	3939917.36	29.4408	A	2.5

y = 2.9441E-004 * x + 6.9131E-004
R = 1.0000
DL = 0.2261
BEC = 2.348

Weight: <None>
Min Conc: 0

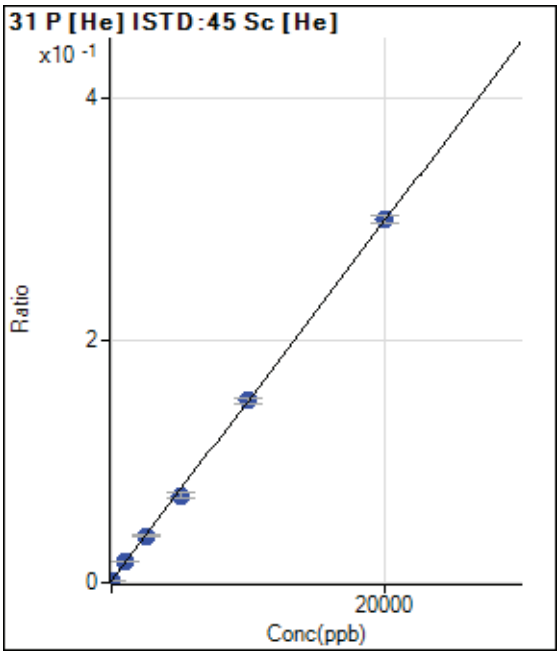
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	176439.60	0.0405	P	0.7
2		10.000	0.661	210875.84	0.0492	P	1.8
3		50.000	56.832	3120866.80	0.7825	A	7.5
4		125.000	138.468	7019926.46	1.8483	A	8.1
5		250.000	256.169	13285599.60	3.3849	A	2.5
6		500.000	493.679	25324063.93	6.4857	A	0.5
7		1000.000	999.686	49579840.35	13.0918	A	6.2
8				759609.40	0.2106	P	16.5

y = 0.0131 * x + 0.0405
R = 0.9998
DL = 0.06132
BEC = 3.104

Weight: <None>
Min Conc: 0

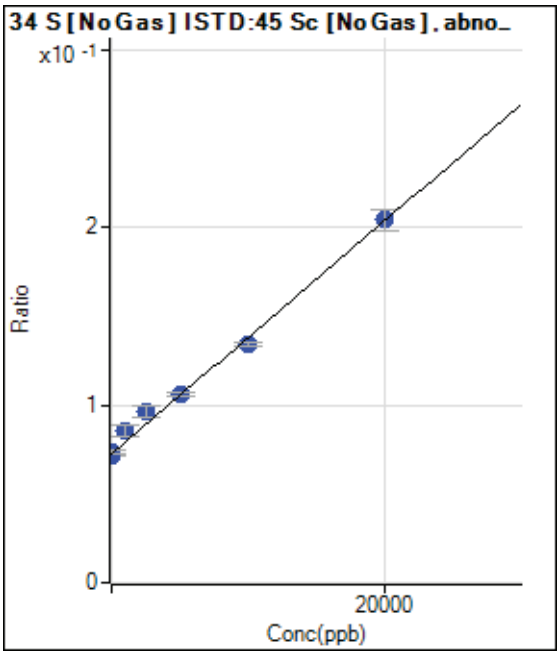


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-8.137	252.78	0.0017	P	29.5
2		0.000	8.137	283.34	0.0019	P	21.0
3		1000.000	1032.698	2400.27	0.0171	P	1.4
4		2500.000	2457.693	5148.26	0.0383	P	4.0
5		5000.000	4726.797	9581.21	0.0720	P	5.2
6		10000.000	10017.075	19502.43	0.1504	P	3.2
7		20000.000	20063.417	40158.93	0.2995	P	2.3
8				216.67	0.0016	P	19.5

y = 1.4838E-005 * x + 0.0018
R = 0.9999
DL = 91.59
BEC = 122.5

Weight: <None>
Min Conc: 0

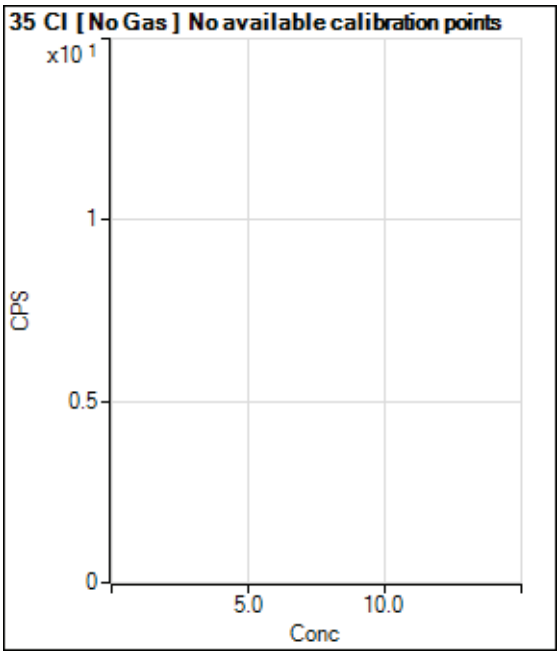
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-142.033	312135.98	0.0717	P	1.0
2		0.000	142.033	315554.01	0.0736	P	2.3
3		1000.000	1965.609	341180.05	0.0855	P	7.1
4		2500.000	3631.464	366698.86	0.0965	P	6.2
5		5000.000	5137.690	417461.67	0.1064	P	2.2
6		10000.000	9423.765	525094.67	0.1345	P	1.2
7		20000.000	20063.982	773992.49	0.2044	P	6.0
8				273045.24	0.0755	P	7.1

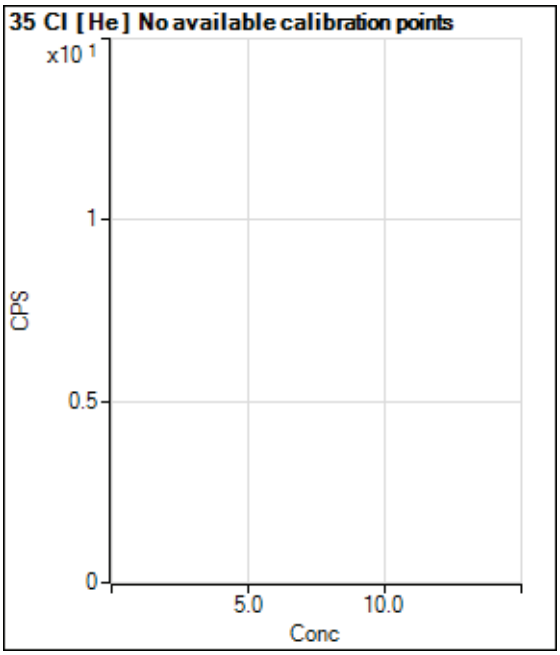
y = 6.5659E-006 * x + 0.0726
R = 0.9969
DL = 563.2
BEC = 1.106E+04

Weight: <None>
Min Conc: 0

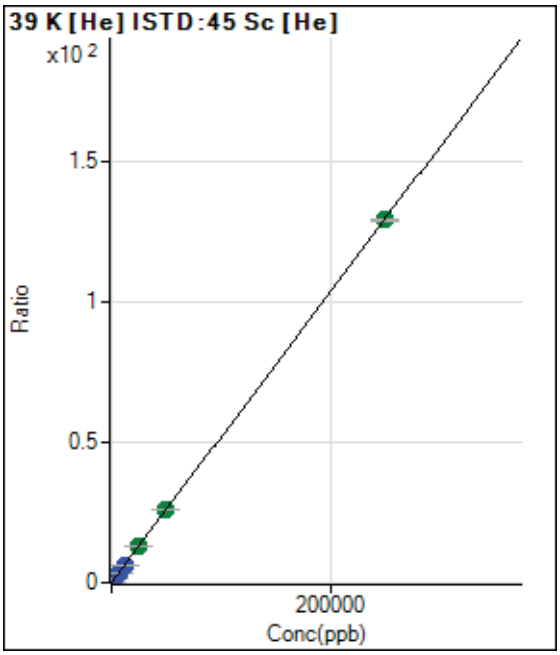


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				92860.89		P	3.3
2				95105.90		P	2.9
3				136610.42		P	1.0
4				131409.75		P	1.1
5				124916.40		P	0.1
6				122636.51		P	1.8
7				122238.72		P	1.7
8				136391.31		P	2.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				705.59		P	9.5
2				716.71		P	9.3
3				1044.52		P	15.4
4				933.39		P	11.8
5				952.83		P	15.8
6				850.05		P	8.5
7				986.18		P	14.0
8				1152.86		P	10.1

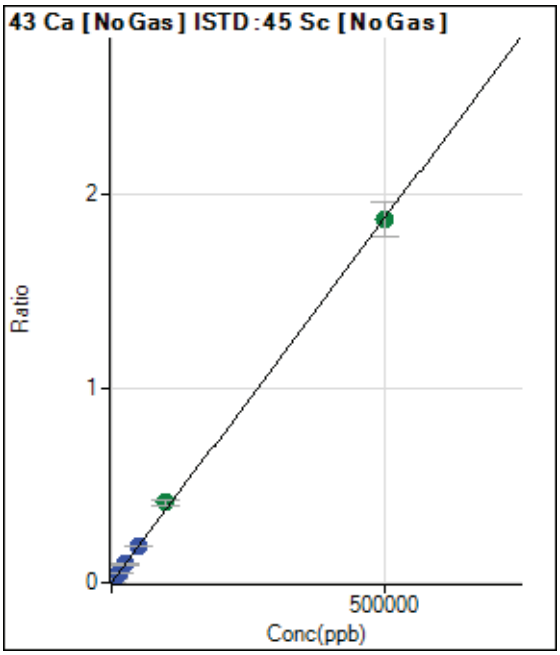


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	10262.29	0.0689	P	1.0
2		500.000	461.927	45157.58	0.3081	P	1.6
3		2500.000	2533.612	193324.52	1.3806	P	0.8
4		6250.000	6186.305	440058.14	3.2717	P	2.0
5		12500.000	11769.699	820863.53	6.1623	P	3.9
6		25000.000	25372.359	1711912.20	13.2046	A	1.8
7		50000.000	50424.732	3510249.12	26.1746	A	0.9
8		250000.00	249915.66	17325119.66	129.4540	A	0.8

y = 5.1771E-004 * x + 0.0689
R = 1.0000
DL = 4.044
BEC = 133.2

Weight: <None>
Min Conc: 0

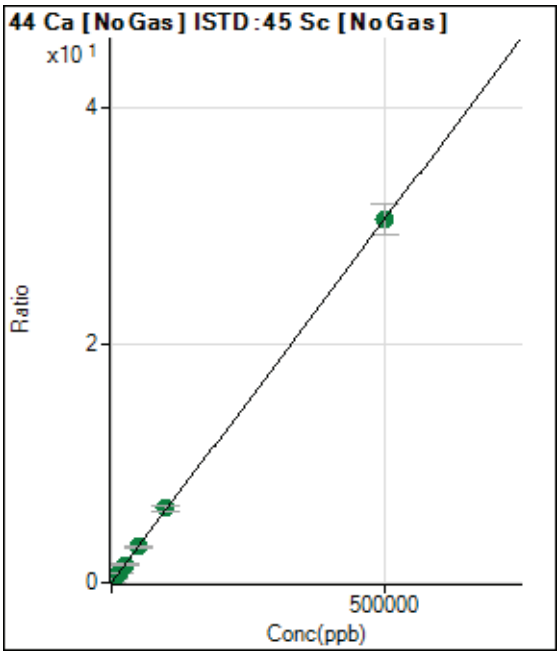
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	253.72	0.0001	P	3.7
2		500.000	432.127	7192.58	0.0017	P	3.4
3		5000.000	5468.159	81944.21	0.0205	P	6.7
4		12500.000	13663.418	194597.12	0.0512	P	8.1
5		25000.000	25147.023	369943.28	0.0942	P	2.0
6		50000.000	49372.763	722149.27	0.1850	P	2.2
7		100000.00	110031.79	1560345.02	0.4122	A	7.6
8		500000.00	498015.31	6736010.51	1.8654	A	9.4

y = 3.7455E-006 * x + 5.8285E-005
R = 0.9998
DL = 1.72
BEC = 15.56

Weight: <None>
Min Conc: 0

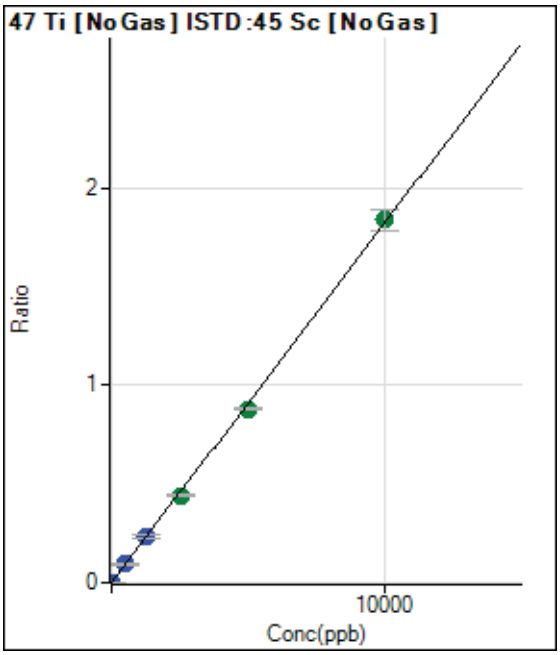


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	28454.41	0.0065	P	1.1
2		500.000	436.588	142327.06	0.0332	P	2.8
3		5000.000	5378.982	1336026.05	0.3348	A	6.2
4		12500.000	13409.951	3133769.30	0.8249	A	7.8
5		25000.000	24830.132	5973834.85	1.5218	A	1.9
6		50000.000	49487.637	11814656.83	3.0266	A	2.6
7		100000.00	102022.80	23600225.42	6.2326	A	6.7
8		500000.00	499628.69	110160001.0	30.4969	A	8.6

y = 6.1026E-005 * x + 0.0065
R = 1.0000
DL = 3.611
BEC = 107.1

Weight: <None>
Min Conc: 0

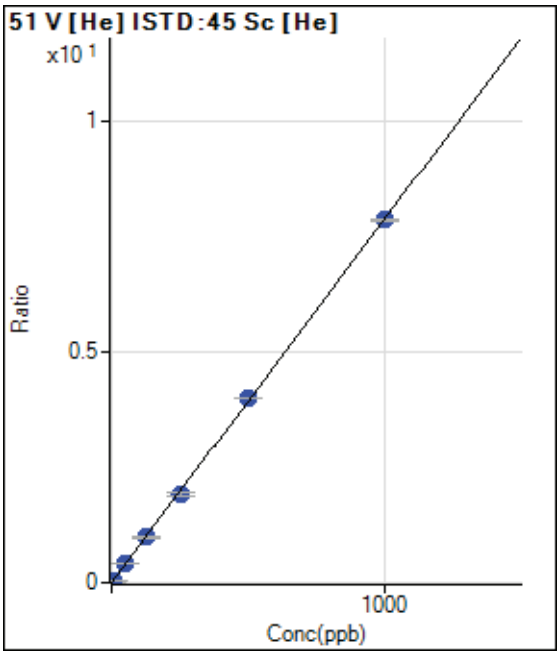
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	175.00	0.0000	P	20.3
2		5.000	4.483	3672.79	0.0009	P	1.4
3		500.000	512.003	371899.76	0.0932	P	6.1
4		1250.000	1291.335	892745.15	0.2350	P	7.6
5		2500.000	2425.947	1732609.85	0.4414	A	2.6
6		5000.000	4834.709	3434062.88	0.8796	A	1.8
7		10000.000	10095.392	6956230.54	1.8368	A	6.1
8				1897.54	0.0005	P	25.2

y = 1.8194E-004 * x + 4.0253E-005
R = 0.9997
DL = 0.1346
BEC = 0.2212

Weight: <None>
Min Conc: 0

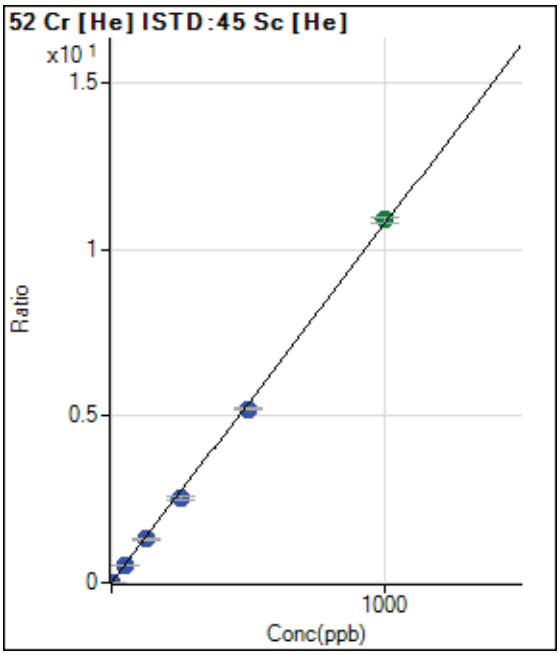


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.78	0.0001	P	29.2
2		5.000	4.719	5466.65	0.0373	P	2.5
3		50.000	51.464	56796.67	0.4056	P	1.7
4		125.000	125.873	133415.73	0.9919	P	2.7
5		250.000	243.276	255284.44	1.9170	P	5.0
6		500.000	506.333	517232.80	3.9898	P	0.0
7		1000.000	998.334	1054808.79	7.8665	P	0.8
8				374.45	0.0028	P	9.0

y = 0.0079 * x + 1.1955E-004
R = 0.9999
DL = 0.01331
BEC = 0.01517

Weight: <None>
Min Conc: 0

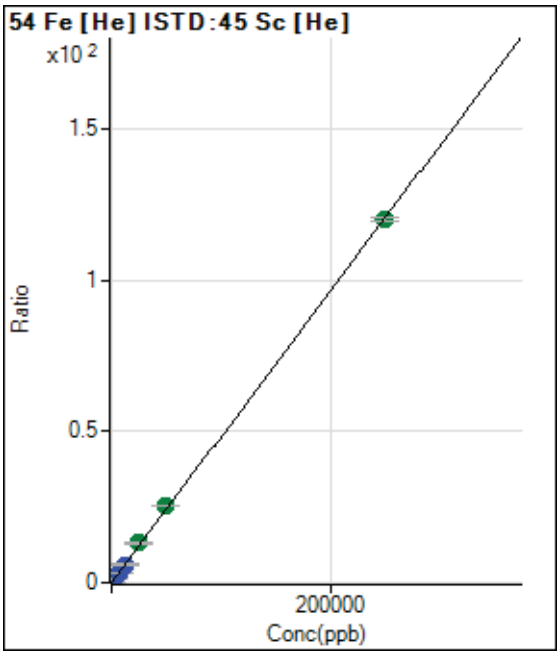
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1118.94	0.0075	P	9.7
2		2.000	1.921	4127.31	0.0282	P	1.2
3		50.000	49.532	75570.68	0.5397	P	2.2
4		125.000	120.875	175715.62	1.3063	P	2.0
5		250.000	233.952	335781.26	2.5214	P	4.8
6		500.000	485.060	676653.93	5.2195	P	0.2
7		1000.000	1012.021	1459095.62	10.8818	A	1.8
8				8626.01	0.0645	P	2.3

y = 0.0107 * x + 0.0075
R = 0.9997
DL = 0.2034
BEC = 0.6998

Weight: <None>
Min Conc: 0

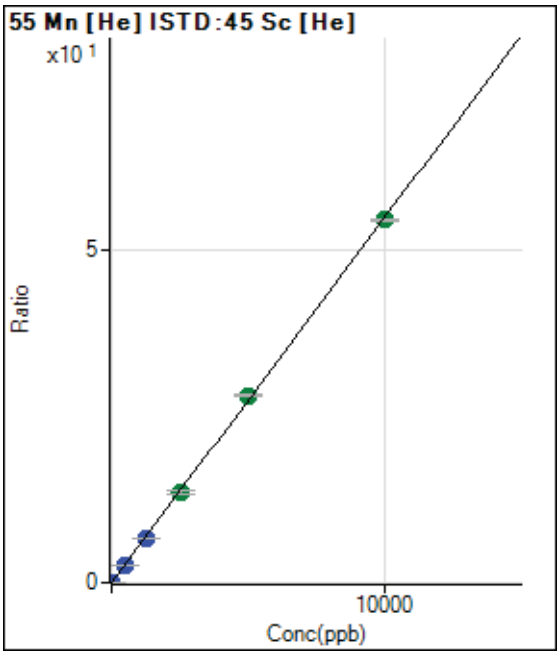


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	357.42	0.0024	P	11.6
2		50.000	49.879	3867.26	0.0264	P	4.2
3		2500.000	2599.697	175449.70	1.2531	P	1.7
4		6250.000	6472.075	419110.56	3.1160	P	1.4
5		12500.000	12386.491	793936.68	5.9613	P	4.6
6		25000.000	27210.446	1697366.40	13.0928	A	1.2
7		50000.000	52569.437	3391448.60	25.2925	A	1.0
8		250000.00	249264.19	16049717.60	119.9183	A	0.9

y = 4.8108E-004 * x + 0.0024
R = 0.9999
DL = 1.735
BEC = 4.99

Weight: <None>
Min Conc: 0

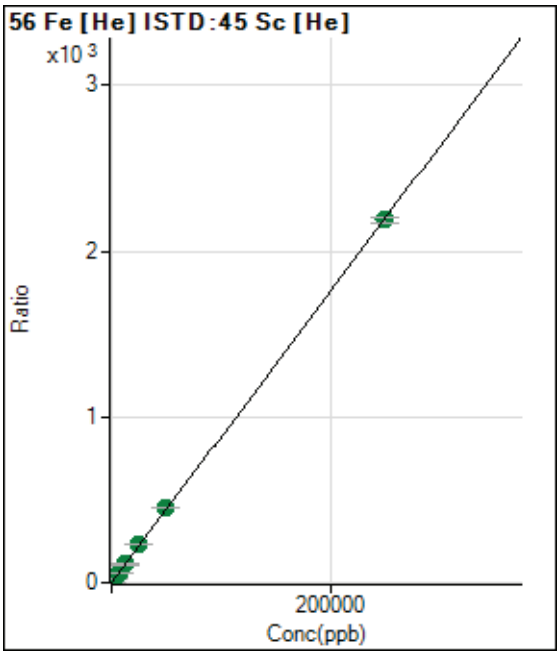
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	43.33	0.0003	P	27.4
2		1.000	0.911	773.36	0.0053	P	6.3
3		500.000	496.242	380129.22	2.7148	P	1.6
4		1250.000	1218.768	896747.82	6.6672	P	1.8
5		2500.000	2479.645	1806531.14	13.5644	A	5.0
6		5000.000	5135.452	3641977.27	28.0922	A	1.4
7		10000.000	9941.455	7292849.34	54.3819	A	0.5
8				5393.30	0.0403	P	1.4

y = 0.0055 * x + 2.9084E-004
R = 0.9999
DL = 0.04366
BEC = 0.05317

Weight: <None>
Min Conc: 0

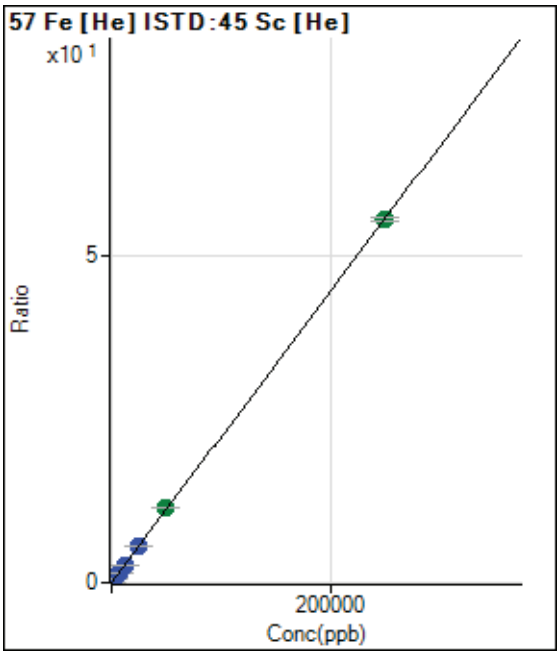


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2748.46	0.0185	P	1.6
2		50.000	48.086	64512.12	0.4402	P	2.0
3		2500.000	2721.331	3344776.52	23.8871	A	0.8
4		6250.000	6653.382	7851581.48	58.3750	A	1.2
5		12500.000	12763.257	14914576.49	111.9644	A	3.9
6		25000.000	26266.094	29867877.98	230.3971	A	1.0
7		50000.000	51507.907	60582020.80	451.7918	A	2.0
8		250000.00	249546.34	292932439.8	2,188.777	A	1.5

y = 0.0088 * x + 0.0185
R = 1.0000
DL = 0.09814
BEC = 2.105

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	120.37	0.0008	P	30.6
2		50.000	46.777	1646.42	0.0112	P	4.7
3		2500.000	2552.326	79748.26	0.5696	P	2.3
4		6250.000	6306.192	189130.31	1.4060	P	1.4
5		12500.000	12080.754	358579.58	2.6928	P	5.2
6		25000.000	25129.953	726052.24	5.6006	P	0.6
7		50000.000	51912.531	1551287.06	11.5686	A	0.8
8		250000.00	249623.53	7444441.37	55.6251	A	1.1

y = 2.2283E-004 * x + 8.0953E-004

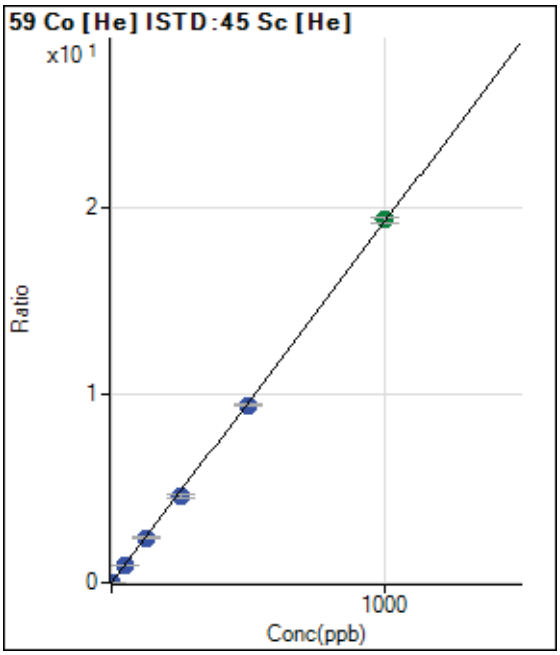
R = 1.0000

DL = 3.331

BEC = 3.633

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	51.11	0.0003	P	20.5
2		1.000	0.957	2744.74	0.0187	P	0.5
3		50.000	50.154	134951.06	0.9638	P	1.6
4		125.000	125.227	323597.15	2.4059	P	1.5
5		250.000	239.192	611853.25	4.5951	P	5.4
6		500.000	493.158	1228150.57	9.4736	P	0.6
7		1000.000	1006.087	2591334.82	19.3266	A	1.9
8				6103.58	0.0456	P	0.6

y = 0.0192 * x + 3.4311E-004

R = 0.9999

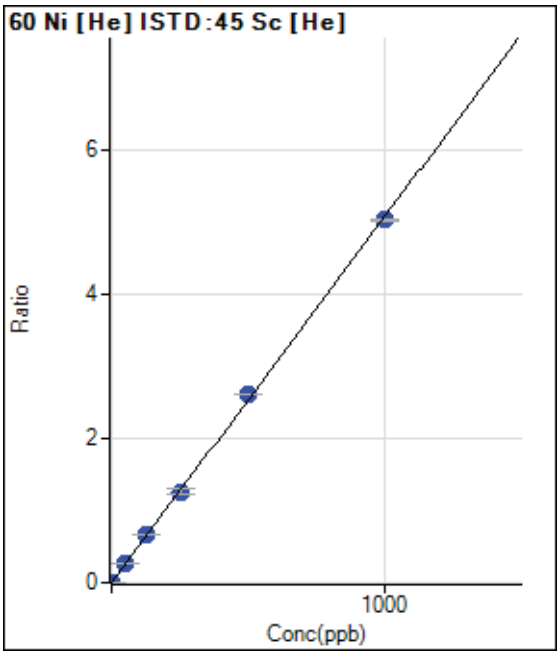
DL = 0.01096

BEC = 0.01786

Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	46.67	0.0003	P	19.1
2		1.000	1.108	870.04	0.0059	P	4.1
3		50.000	53.701	38209.02	0.2729	P	1.8
4		125.000	131.135	89563.16	0.6659	P	1.9
5		250.000	249.350	168566.02	1.2659	P	5.5
6		500.000	514.254	338421.53	2.6105	P	0.5
7		1000.000	992.083	675257.45	5.0359	P	0.7
8				3362.65	0.0251	P	3.2

y = 0.0051 * x + 3.1358E-004

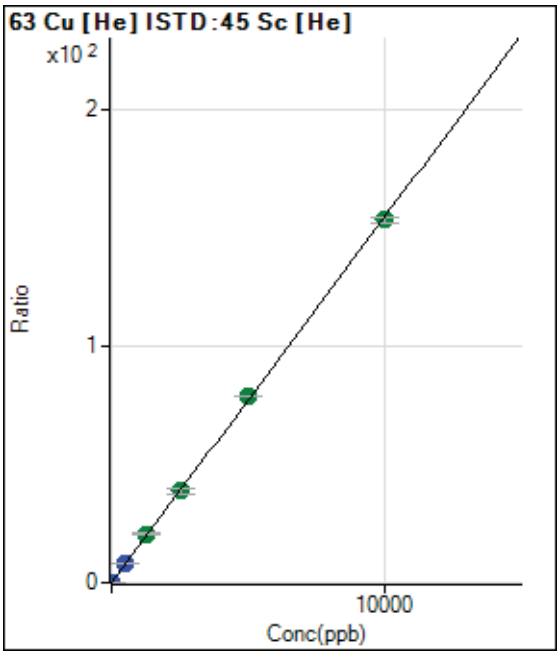
R = 0.9998

DL = 0.03546

BEC = 0.06178

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	486.68	0.0033	P	13.6
2		2.000	1.866	4703.05	0.0321	P	2.1
3		500.000	506.527	1095803.45	7.8262	P	1.5
4		1250.000	1326.137	2755233.88	20.4844	A	3.2
5		2500.000	2503.925	5149760.38	38.6743	A	5.4
6		5000.000	5120.236	10251899.99	79.0811	A	0.3
7		10000.000	9929.057	20561382.75	153.3493	A	1.4
8				7277.51	0.0544	P	0.8

y = 0.0154 * x + 0.0033

R = 0.9999

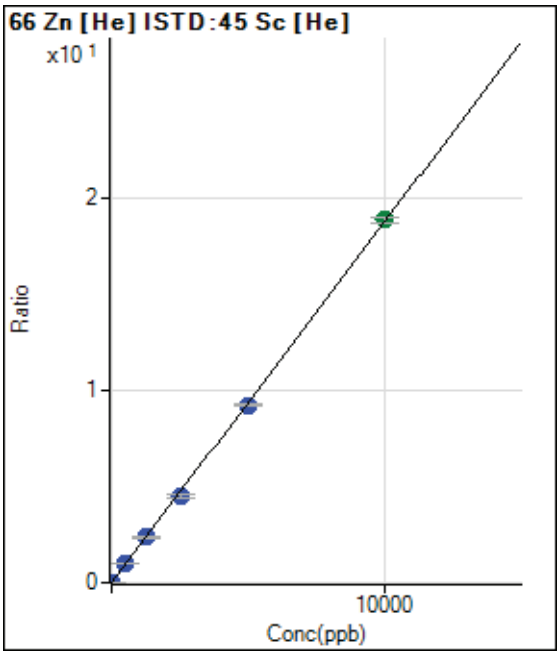
DL = 0.08633

BEC = 0.2117

Weight: <None>

Min Conc: 0

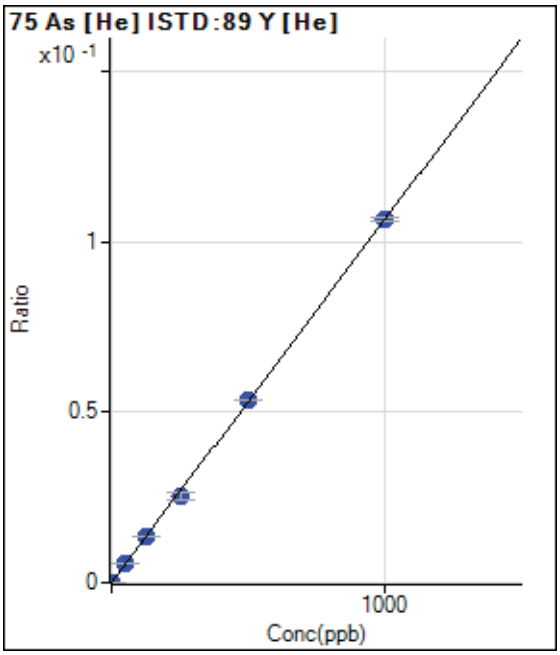
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	130.00	0.0009	P	3.1
2		2.000	2.231	741.13	0.0051	P	6.8
3		500.000	514.977	135465.48	0.9675	P	1.8
4		1250.000	1255.301	317041.67	2.3571	P	1.4
5		2500.000	2396.977	599312.34	4.5001	P	4.8
6		5000.000	4925.858	1198747.77	9.2469	P	0.4
7		10000.000	10061.415	2532381.87	18.8865	A	1.4
8				2828.08	0.0211	P	1.5

y = 0.0019 * x + 8.7341E-004
R = 0.9999
DL = 0.04371
BEC = 0.4653

Weight: <None>
Min Conc: 0

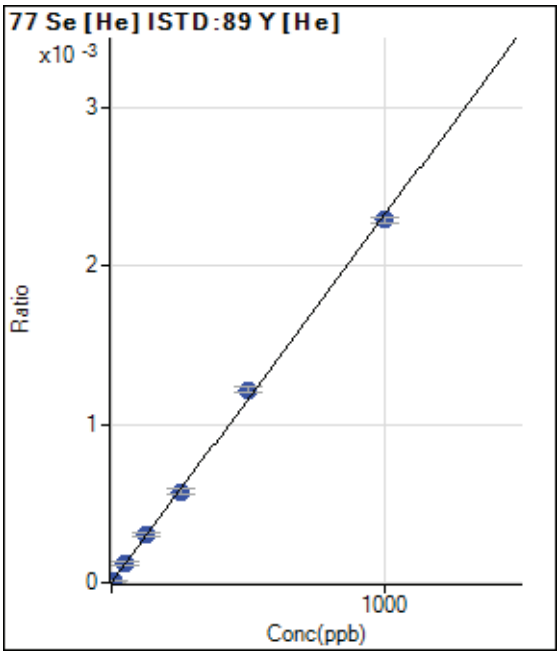


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.67	0.0000	P	91.9
2		1.000	1.052	145.35	0.0001	P	11.7
3		50.000	52.675	6876.38	0.0056	P	2.0
4		125.000	127.998	16015.34	0.0136	P	1.6
5		250.000	240.627	30547.58	0.0256	P	9.3
6		500.000	502.940	61851.86	0.0535	P	0.6
7		1000.000	1000.365	126555.21	0.1064	P	1.1
8				58.68	0.0000	P	22.7

y = 1.0633E-004 * x + 1.3078E-006
R = 0.9999
DL = 0.0339
BEC = 0.0123

Weight: <None>
Min Conc: 0

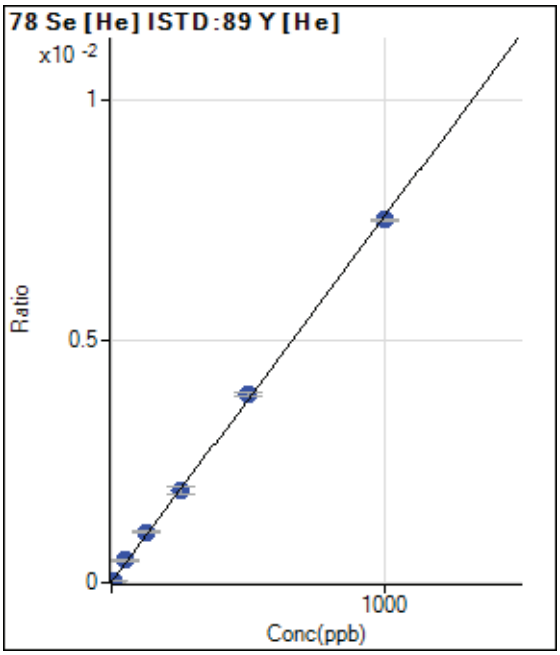
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.11	0.0000	P	173.
2		5.000	4.478	14.44	0.0000	P	35.8
3		50.000	52.489	151.12	0.0001	P	21.8
4		125.000	130.787	357.79	0.0003	P	10.8
5		250.000	247.575	687.80	0.0006	P	5.8
6		500.000	525.330	1410.09	0.0012	P	3.2
7		1000.000	987.096	2724.74	0.0023	P	1.3
8				13.33	0.0000	P	24.6

y = 2.3191E-006 * x + 8.7432E-007
R = 0.9995
DL = 1.959
BEC = 0.377

Weight: <None>
Min Conc: 0

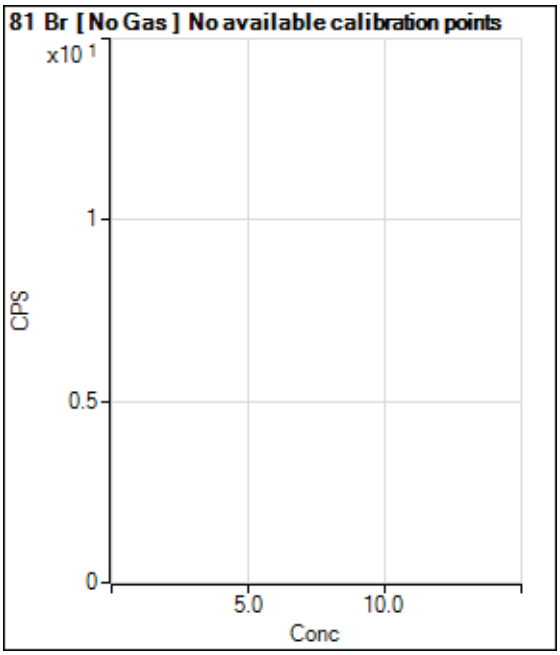


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14.33	0.0000	P	17.4
2		5.000	4.761	60.68	0.0000	P	18.3
3		50.000	59.240	563.74	0.0005	P	7.2
4		125.000	137.081	1234.18	0.0010	P	2.9
5		250.000	250.451	2277.42	0.0019	P	8.9
6		500.000	513.939	4512.85	0.0039	P	1.8
7		1000.000	990.947	8939.08	0.0075	P	0.6
8				69.68	0.0001	P	27.9

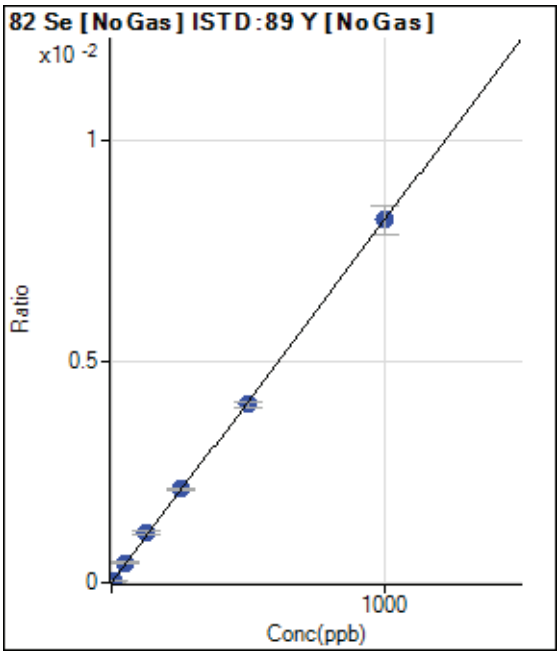
y = 7.5705E-006 * x + 1.1230E-005
R = 0.9998
DL = 0.7727
BEC = 1.483

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				4448.05		P	2.8
2				4359.13		P	4.5
3				4164.61		P	1.7
4				4006.24		P	4.2
5				3642.23		P	1.2
6				3442.18		P	6.4
7				3036.52		P	4.3
8				6890.81		P	16.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.91	0.0000	P	133.
2		5.000	4.764	480.38	0.0000	P	9.6
3		50.000	55.470	5059.55	0.0005	P	8.4
4		125.000	138.267	12061.39	0.0011	P	7.0
5		250.000	258.057	23293.85	0.0021	P	2.7
6		500.000	491.094	44487.68	0.0040	P	2.5
7		1000.000	1000.508	88921.33	0.0082	P	7.6
8				461.63	0.0000	P	11.5

y = 8.2046E-006 * x + 1.4905E-006

R = 0.9998

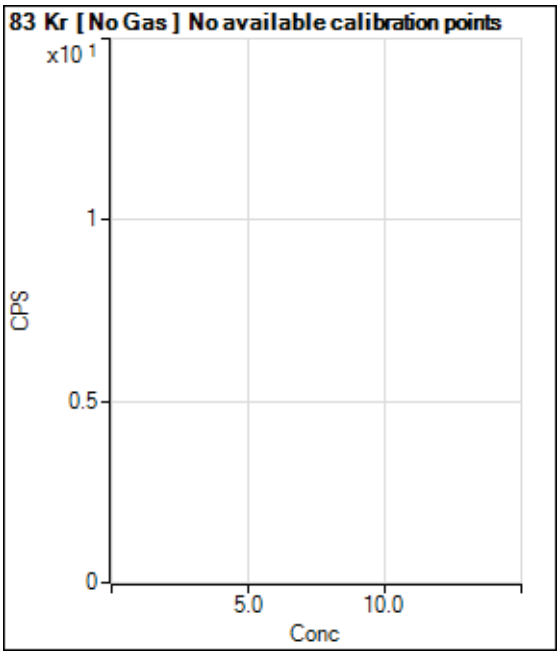
DL = 0.73

BEC = 0.1817

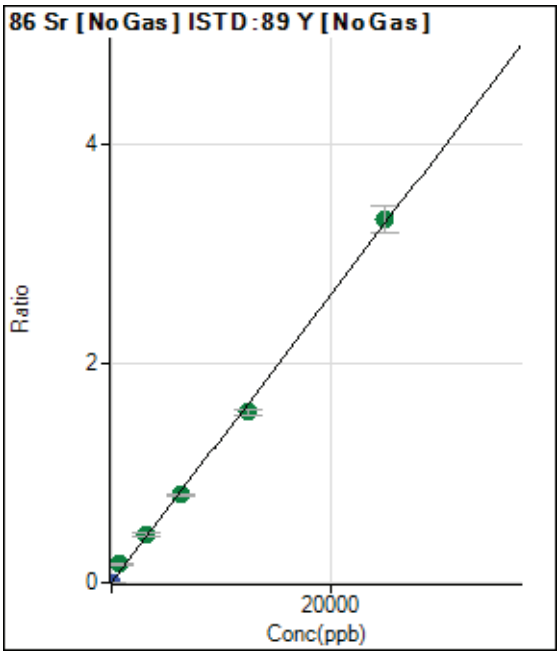
Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				230.39		P	11.8
2				244.97		P	5.4
3				244.97		P	1.4
4				238.30		P	1.1
5				247.47		P	8.9
6				231.22		P	2.5
7				232.47		P	4.6
8				236.22		P	7.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	450.02	0.0000	P	7.5
2		1.000	0.864	1775.16	0.0001	P	1.3
3		625.000	1300.834	1883127.97	0.1699	A	7.6
4		3125.000	3329.086	4613793.07	0.4349	A	8.8
5		6250.000	6125.626	8796843.42	0.8001	A	2.5
6		12500.000	11885.792	17132254.72	1.5525	A	3.3
7		25000.000	25295.791	35787979.96	3.3039	A	7.3
8				10237.76	0.0010	P	10.3

y = 1.3061E-004 * x + 3.7081E-005

R = 0.9991

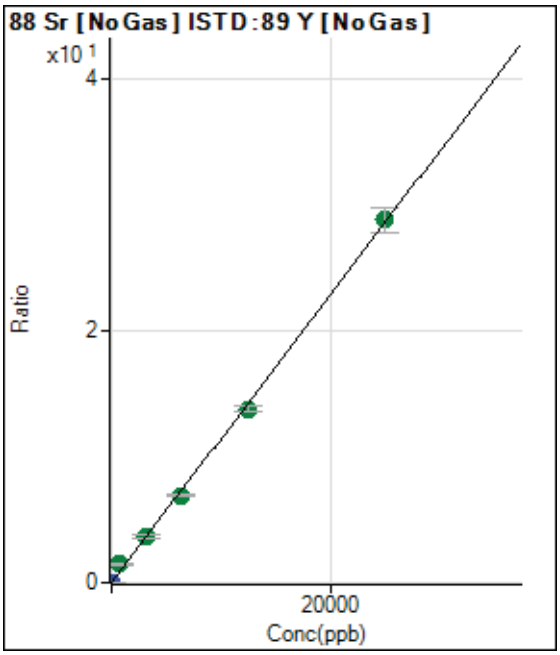
DL = 0.06414

BEC = 0.2839

Weight: <None>

Min Conc: 0

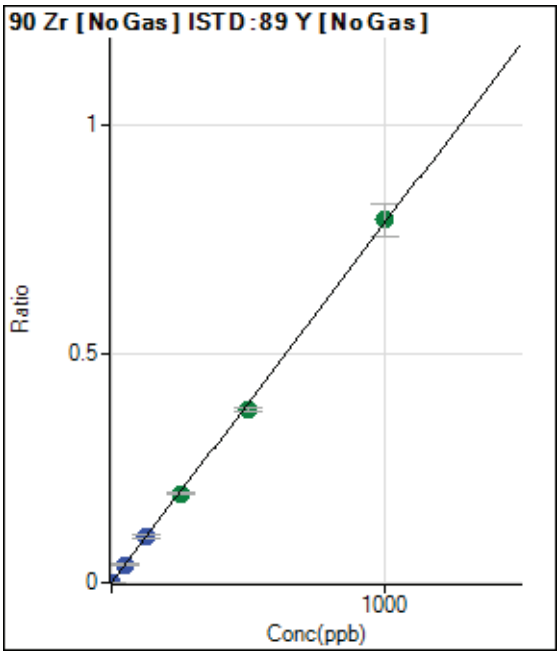
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	788.93	0.0001	P	21.7
2		1.000	0.904	12992.48	0.0011	P	3.6
3		625.000	1277.881	16171663.03	1.4592	A	7.5
4		3125.000	3234.830	39199335.95	3.6936	A	8.6
5		6250.000	6072.428	76217399.62	6.9336	A	3.6
6		12500.000	12049.721	151835599.2	13.7585	A	3.2
7		25000.000	25239.482	312222651.4	28.8187	A	6.9
8				75894.10	0.0072	P	16.8

y = 0.0011 * x + 6.4918E-005
R = 0.9993
DL = 0.03699
BEC = 0.05686

Weight: <None>
Min Conc: 0

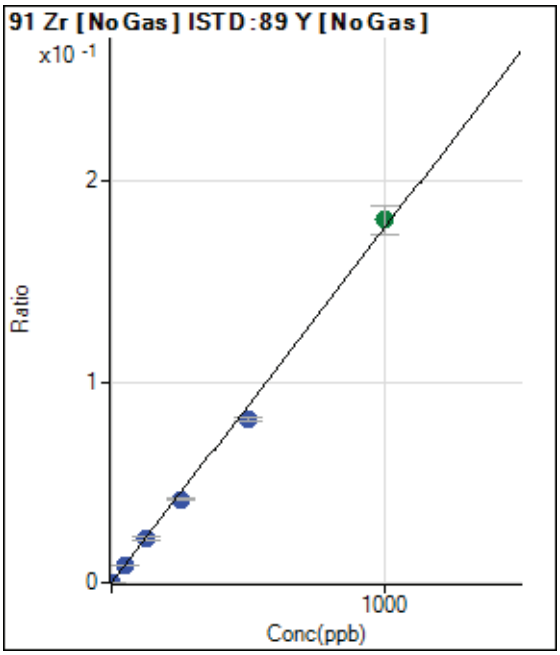


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	452.80	0.0000	P	3.3
2		1.000	0.802	7919.14	0.0007	P	9.3
3		50.000	49.731	434056.38	0.0392	P	6.9
4		125.000	126.812	1059009.83	0.0998	P	8.4
5		250.000	247.429	2140380.41	0.1947	A	2.4
6		500.000	481.359	4180522.06	0.3787	A	2.9
7		1000.000	1009.750	8598622.33	0.7943	A	8.8
8				5023.34	0.0005	P	8.1

y = 7.8663E-004 * x + 3.7318E-005
R = 0.9997
DL = 0.004753
BEC = 0.04744

Weight: <None>
Min Conc: 0

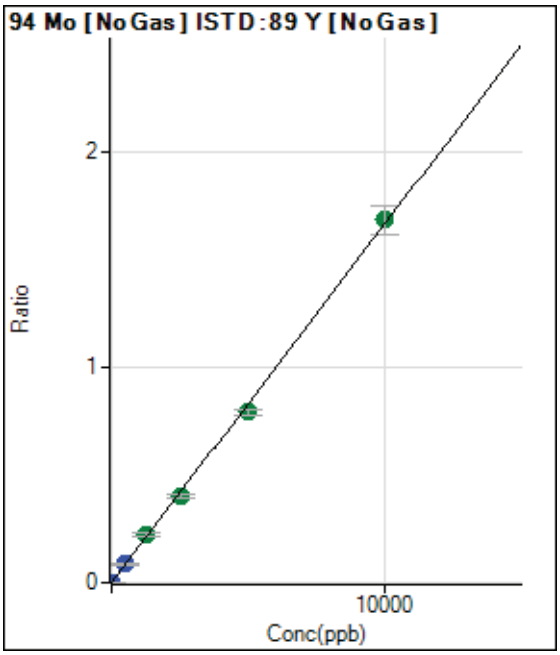
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.22	0.0000	P	57.1
2		1.000	0.816	1802.94	0.0002	P	7.4
3		50.000	49.482	96953.49	0.0088	P	8.0
4		125.000	125.772	236011.86	0.0222	P	7.6
5		250.000	234.074	454871.33	0.0414	P	1.9
6		500.000	460.982	899111.55	0.0815	P	2.5
7		1000.000	1023.420	1958471.09	0.1808	A	7.8
8				1166.76	0.0001	P	3.3

y = 1.7670E-004 * x + 8.0205E-006
R = 0.9987
DL = 0.07771
BEC = 0.04539

Weight: <None>
Min Conc: 0

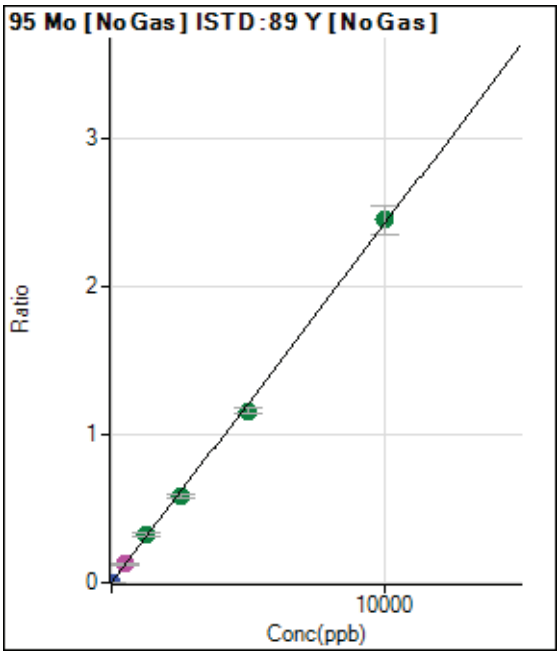


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.23	0.0000	P	39.3
2		5.000	5.135	10198.48	0.0009	P	3.1
3		500.000	514.489	947503.25	0.0855	P	7.6
4		1250.000	1338.814	2361455.72	0.2225	A	8.0
5		2500.000	2421.745	4424382.08	0.4025	A	3.2
6		5000.000	4765.724	8739875.11	0.7920	A	3.5
7		10000.000	10124.876	18219974.71	1.6826	A	8.0
8				7583.45	0.0007	P	12.0

y = 1.6618E-004 * x + 7.9901E-006
R = 0.9995
DL = 0.05667
BEC = 0.04808

Weight: <None>
Min Conc: 0

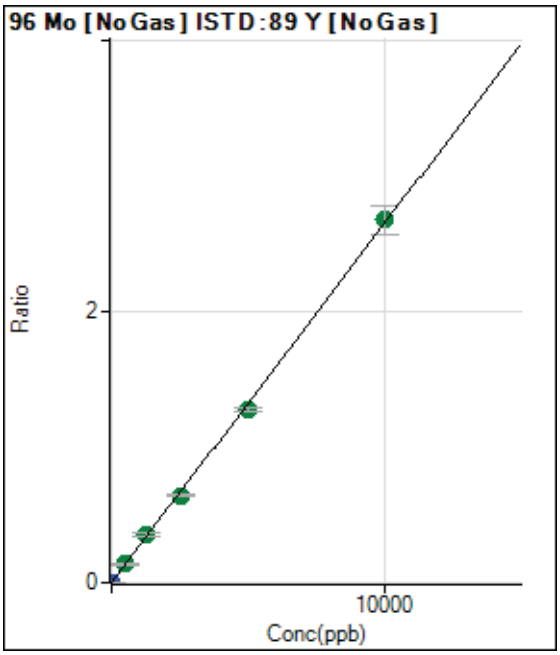
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	64.5
2		5.000	4.346	12492.05	0.0011	P	2.0
3		500.000	521.958	1402829.65	0.1265	M	5.9
4		1250.000	1331.530	3424512.99	0.3227	A	8.2
5		2500.000	2417.113	6439236.69	0.5857	A	3.1
6		5000.000	4793.704	12820952.98	1.1617	A	3.0
7		10000.000	10112.581	26540351.46	2.4506	A	7.8
8				9697.12	0.0009	P	7.1

y = 2.4233E-004 * x + 1.5982E-006
R = 0.9996
DL = 0.01275
BEC = 0.006595

Weight: <None>
Min Conc: 0

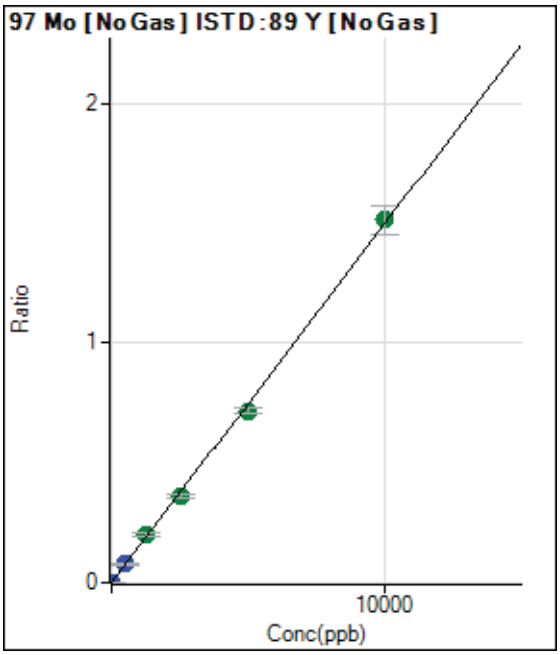


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	52.6
2		5.000	4.424	13951.80	0.0012	P	1.5
3		500.000	526.939	1546705.06	0.1396	A	7.5
4		1250.000	1331.101	3741091.10	0.3526	A	8.6
5		2500.000	2424.997	7061547.99	0.6423	A	2.6
6		5000.000	4813.106	14069251.88	1.2748	A	2.9
7		10000.000	10100.714	28974517.66	2.6753	A	7.7
8				11468.58	0.0011	P	8.8

y = 2.6486E-004 * x + 6.4040E-006
R = 0.9996
DL = 0.03812
BEC = 0.02418

Weight: <None>
Min Conc: 0

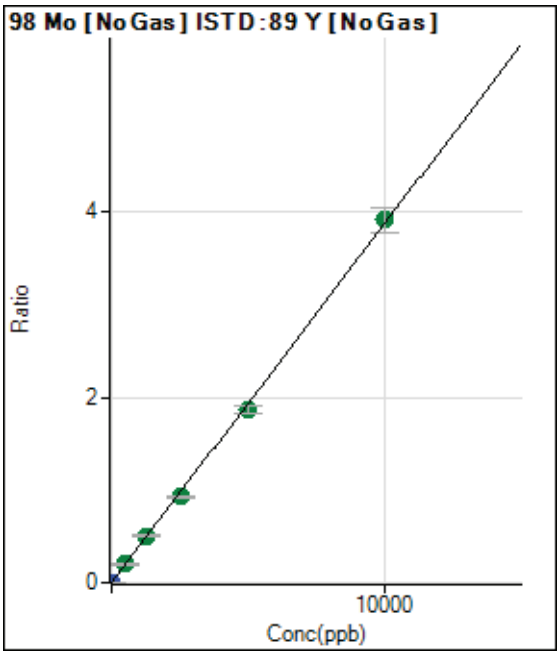
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	13.89	0.0000	P	173.
2		5.000	4.289	7618.97	0.0006	P	2.1
3		500.000	515.462	855123.19	0.0772	P	8.2
4		1250.000	1323.875	2103208.38	0.1983	A	9.0
5		2500.000	2413.645	3973036.85	0.3614	A	3.9
6		5000.000	4788.550	7914238.37	0.7171	A	2.9
7		10000.000	10117.307	16408439.60	1.5151	A	7.7
8				6179.89	0.0006	P	7.9

y = 1.4975E-004 * x + 1.1623E-006
R = 0.9996
DL = 0.04033
BEC = 0.007762

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	41.67	0.0000	P	52.7
2		5.000	4.403	20254.15	0.0017	P	3.8
3		500.000	524.856	2254053.00	0.2035	A	8.4
4		1250.000	1309.056	5387929.72	0.5075	A	7.6
5		2500.000	2399.565	10227669.85	0.9304	A	3.1
6		5000.000	4815.017	20600312.96	1.8669	A	3.8
7		10000.000	10108.976	42464659.98	3.9194	A	7.0
8				15731.31	0.0015	P	16.9

y = 3.8772E-004 * x + 3.4356E-006
R = 0.9996
DL = 0.01401
BEC = 0.008861

Weight: <None>
Min Conc: 0

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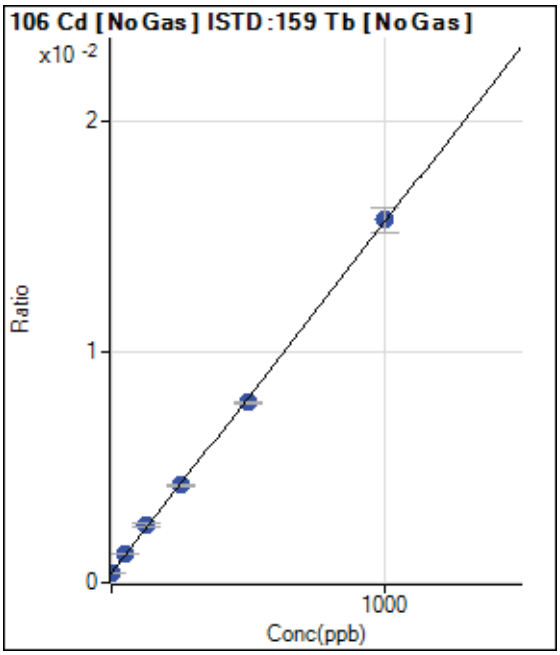
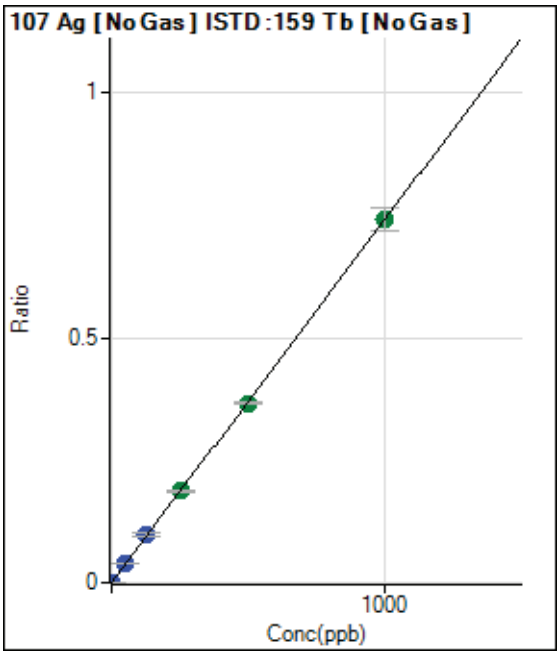
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	4056.27	0.0004	P	5.6
2		1.000	-0.389	4006.24	0.0004	P	8.5
3		50.000	51.945	10787.84	0.0012	P	2.3
4		125.000	137.207	21086.11	0.0025	P	7.8
5		250.000	249.627	36774.93	0.0042	P	1.9
6		500.000	484.423	68914.30	0.0078	P	1.8
7		1000.000	1006.260	136160.71	0.0157	P	6.9
8				3356.06	0.0004	P	4.0

y = 1.5172E-005 * x + 4.3926E-004
R = 0.9997
DL = 4.821
BEC = 28.95

Weight: <None>
Min Conc: 0

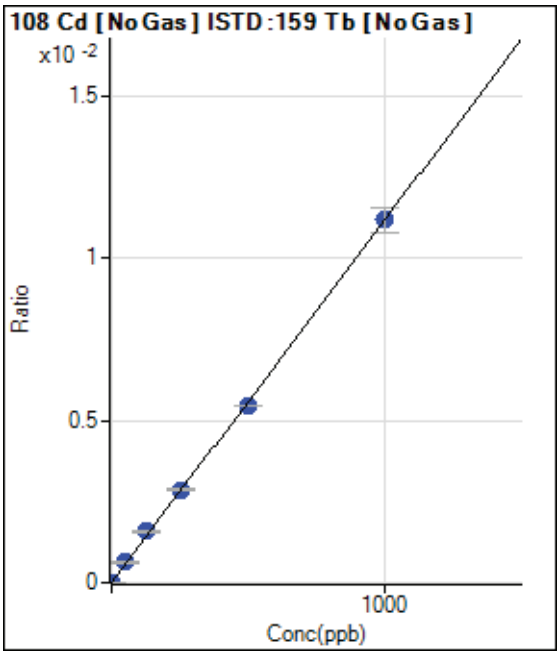


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	41.0
2		1.000	0.956	6621.19	0.0007	P	3.0
3		50.000	52.715	342870.51	0.0391	P	5.0
4		125.000	132.985	824751.23	0.0985	P	6.2
5		250.000	253.191	1632364.13	0.1876	A	2.2
6		500.000	495.488	3248248.51	0.3671	A	1.1
7		1000.000	1000.325	6426623.15	0.7412	A	6.4
8				1161.19	0.0001	P	17.4

y = 7.4091E-004 * x + 8.3755E-006
R = 0.9999
DL = 0.01392
BEC = 0.0113

Weight: <None>
Min Conc: 0

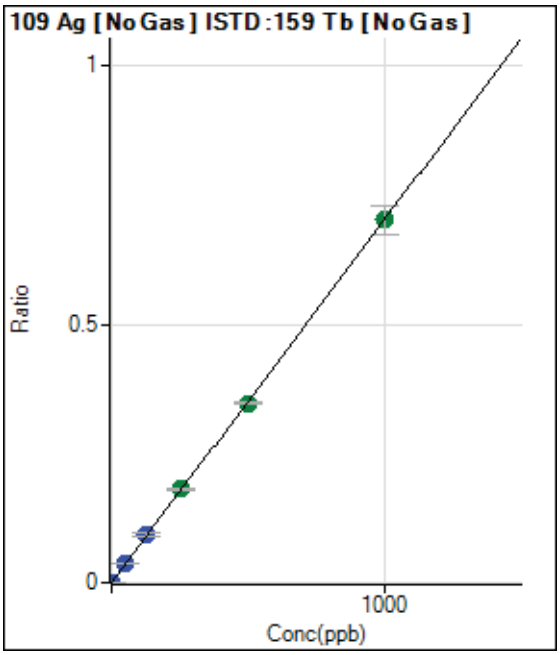
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	18.06	0.0000	P	13.9
2		1.000	0.981	119.45	0.0000	P	15.0
3		50.000	55.750	5478.93	0.0006	P	7.7
4		125.000	140.731	13178.68	0.0016	P	5.6
5		250.000	256.009	24900.42	0.0029	P	2.8
6		500.000	489.309	48387.62	0.0055	P	0.2
7		1000.000	1001.589	97036.29	0.0112	P	6.6
8				95.84	0.0000	P	7.8

y = 1.1172E-005 * x + 1.9565E-006
R = 0.9998
DL = 0.07316
BEC = 0.1751

Weight: <None>
Min Conc: 0

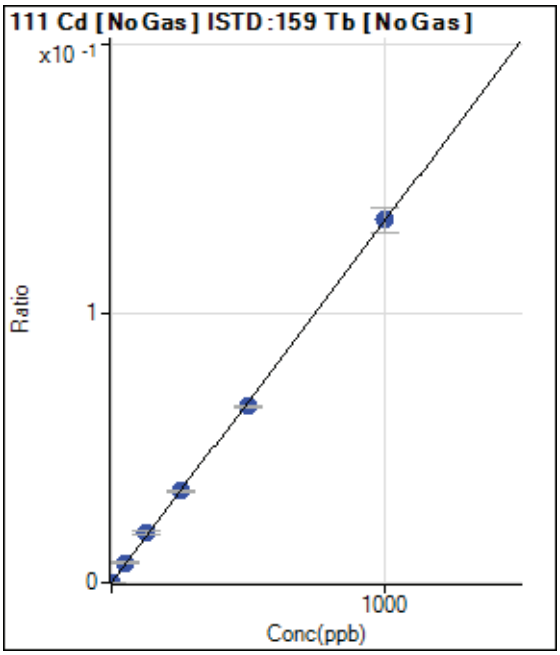


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	38.89	0.0000	P	33.3
2		1.000	0.934	6104.30	0.0007	P	2.9
3		50.000	52.232	321974.90	0.0367	P	6.6
4		125.000	133.677	785630.96	0.0939	P	8.1
5		250.000	258.033	1577344.48	0.1813	A	2.7
6		500.000	494.477	3074513.85	0.3475	A	0.8
7		1000.000	999.557	6086561.16	0.7024	A	8.1
8				1075.07	0.0001	P	10.0

y = 7.0267E-004 * x + 4.2142E-006
R = 0.9999
DL = 0.005998
BEC = 0.005997

Weight: <None>
Min Conc: 0

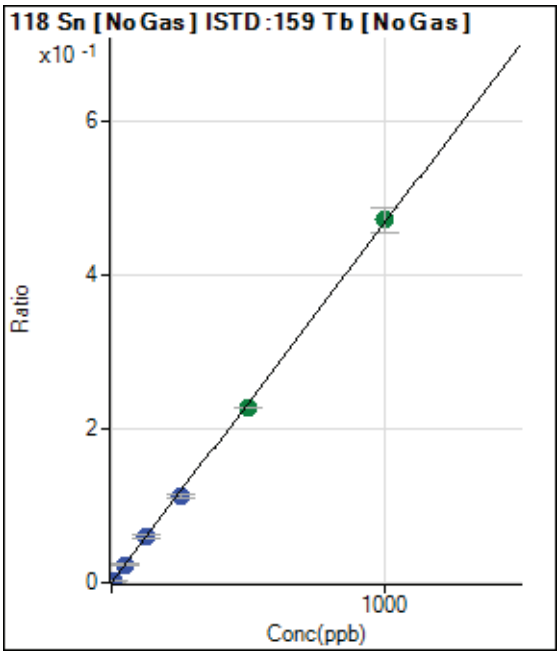
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	399.93	0.0000	P	4.8
2		1.000	0.910	1529.59	0.0002	P	5.0
3		50.000	54.070	64106.60	0.0073	P	5.5
4		125.000	138.137	155500.79	0.0186	P	8.5
5		250.000	253.951	297086.91	0.0341	P	2.6
6		500.000	487.127	579234.42	0.0655	P	1.1
7		1000.000	1003.603	1168861.51	0.1348	P	7.0
8				925.49	0.0001	P	5.3

y = 1.3430E-004 * x + 4.3302E-005
R = 0.9998
DL = 0.04613
BEC = 0.3224

Weight: <None>
Min Conc: 0

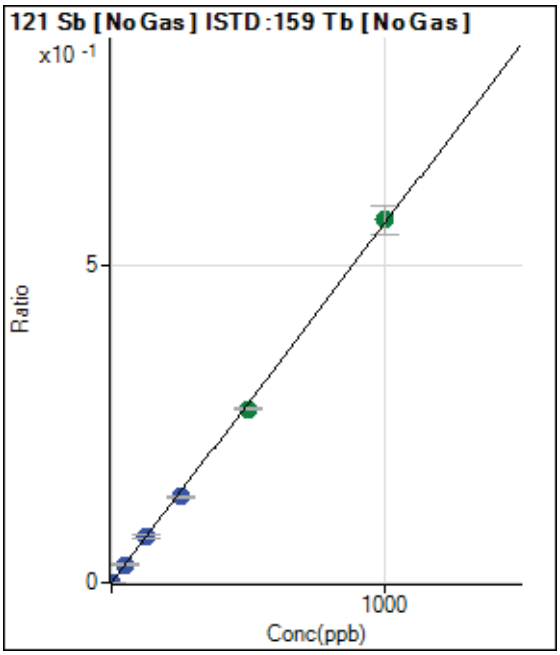


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1150.08	0.0001	P	5.9
2		5.000	4.367	19998.44	0.0022	P	1.4
3		50.000	50.468	207905.42	0.0237	P	6.2
4		125.000	128.767	503778.28	0.0603	P	9.7
5		250.000	241.551	982390.00	0.1130	P	4.1
6		500.000	485.149	2006356.34	0.2267	A	0.2
7		1000.000	1009.047	4087329.43	0.4715	A	6.9
8				3325.72	0.0004	P	1.0

y = 4.6711E-004 * x + 1.2451E-004
R = 0.9998
DL = 0.0468
BEC = 0.2666

Weight: <None>
Min Conc: 0

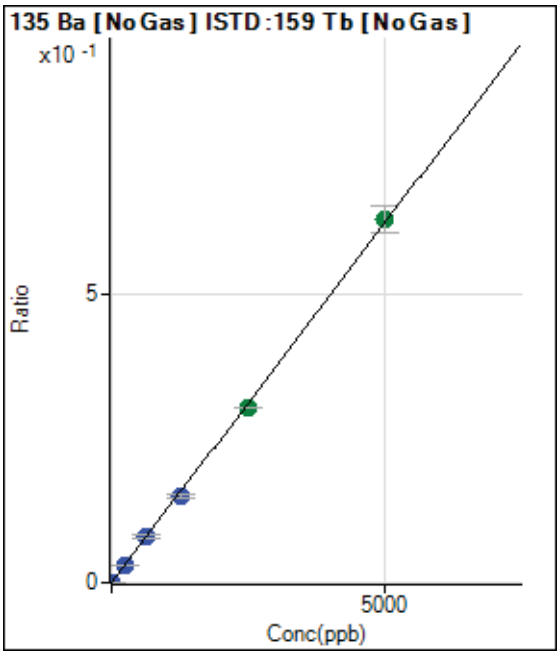
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	8.33	0.0000	P	98.7
2		2.000	1.772	9289.49	0.0010	P	4.4
3		50.000	49.584	246587.72	0.0281	P	6.8
4		125.000	127.626	605171.75	0.0724	P	8.2
5		250.000	239.823	1182853.35	0.1360	P	2.9
6		500.000	483.180	2423906.59	0.2740	A	1.1
7		1000.000	1010.647	4965539.91	0.5730	A	8.1
8				3156.07	0.0004	P	20.9

y = 5.6697E-004 * x + 8.9398E-007
R = 0.9997
DL = 0.004667
BEC = 0.001577

Weight: <None>
Min Conc: 0

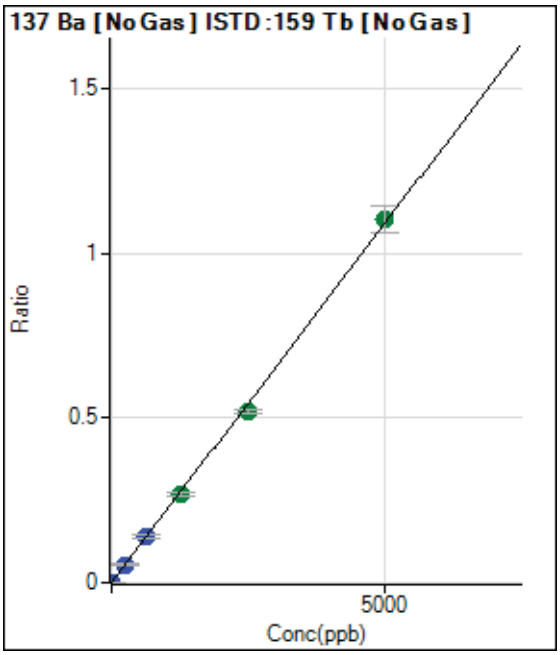


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.45	0.0000	P	8.7
2		10.000	8.678	10001.29	0.0011	P	3.8
3		250.000	246.750	269003.97	0.0306	P	4.8
4		625.000	638.835	663448.28	0.0793	P	8.4
5		1250.000	1205.523	1302285.81	0.1497	P	3.2
6		2500.000	2423.922	2663568.10	0.3010	A	0.1
7		5000.000	5047.594	5433437.58	0.6268	A	7.4
8				3792.41	0.0005	P	4.0

y = 1.2418E-004 * x + 4.8070E-006
R = 0.9998
DL = 0.01013
BEC = 0.03871

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	58.33	0.0000	P	15.6
2		10.000	9.221	18641.14	0.0020	P	6.2
3		250.000	249.862	478092.41	0.0545	P	5.4
4		625.000	645.538	1177185.99	0.1407	P	7.9
5		1250.000	1235.843	2343625.90	0.2694	A	3.5
6		2500.000	2391.120	4612181.27	0.5213	A	2.0
7		5000.000	5055.421	9553340.06	1.1022	A	7.5
8				6891.35	0.0008	P	6.7

y = 2.1802E-004 * x + 6.3265E-006

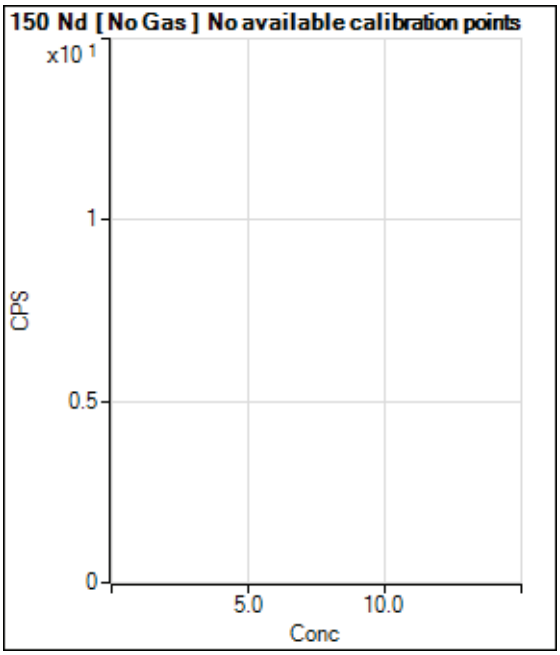
R = 0.9996

DL = 0.01361

BEC = 0.02902

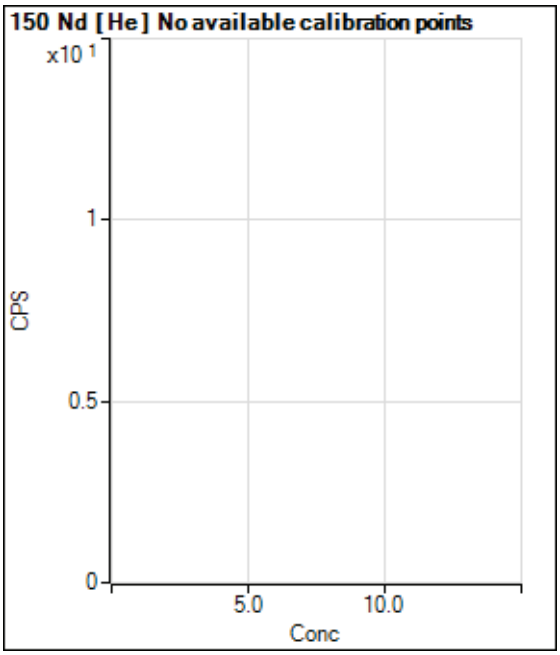
Weight: <None>

Min Conc: 0

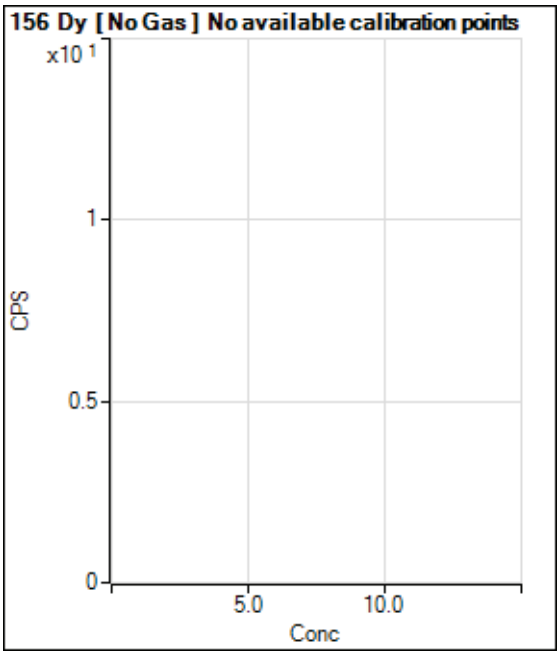


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				8.89		P	114.
2				15.55		P	24.8
3				24.44		P	31.5
4				71.11		P	46.3
5				102.23		P	7.5
6				177.78		P	13.2
7				320.01		P	9.5
8				200.01		P	NaN

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

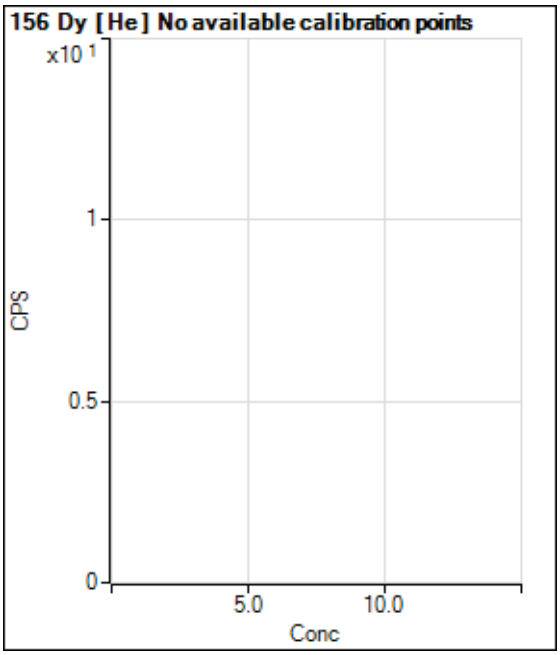


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	173.
2				3.33		P	0.0
3				4.44		P	43.4
4				8.89		P	21.6
5				10.00		P	33.3
6				12.22		P	15.7
7				48.89		P	19.7
8				53.33		P	33.1

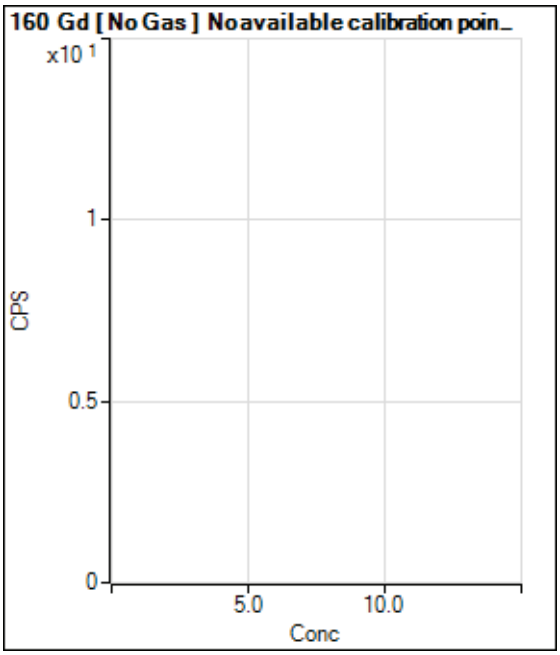


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				13.89		P	34.7
2				5.56		P	173.
3				19.45		P	24.7
4				86.12		P	24.4
5				111.11		P	11.5
6				175.01		P	36.0
7				363.90		P	25.7
8				1055.63		P	4.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	86.6
2				4.44		P	114.
3				10.00		P	66.7
4				26.67		P	45.1
5				32.22		P	6.0
6				77.78		P	17.8
7				180.00		P	18.8
8				497.79		P	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				111.11		P	8.7
2				86.11		P	31.1
3				77.78		P	48.3
4				102.78		P	20.4
5				186.12		P	24.7
6				225.01		P	14.8
7				325.01		P	13.6
8				1183.42		P	10.2

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On:7/14/2023 8:48:56 AM
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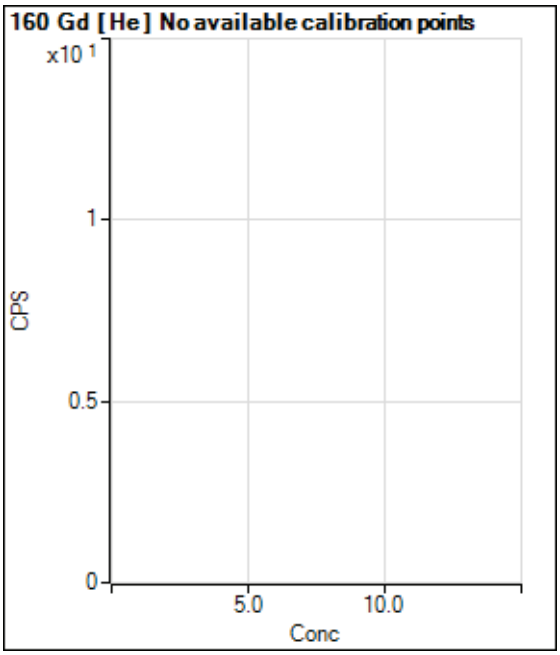
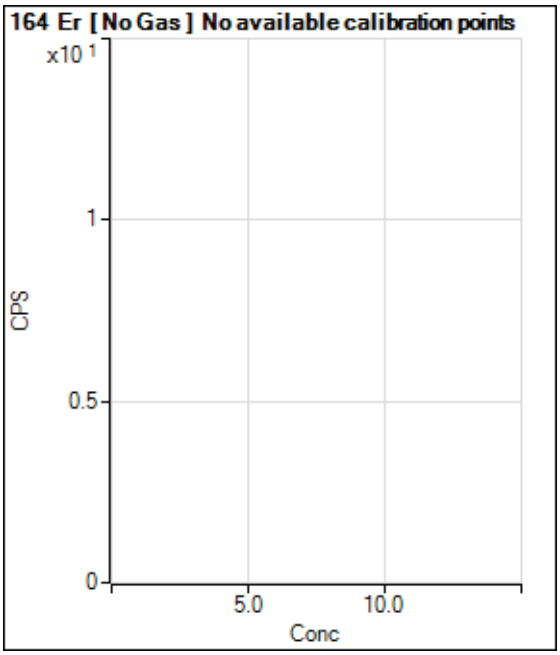
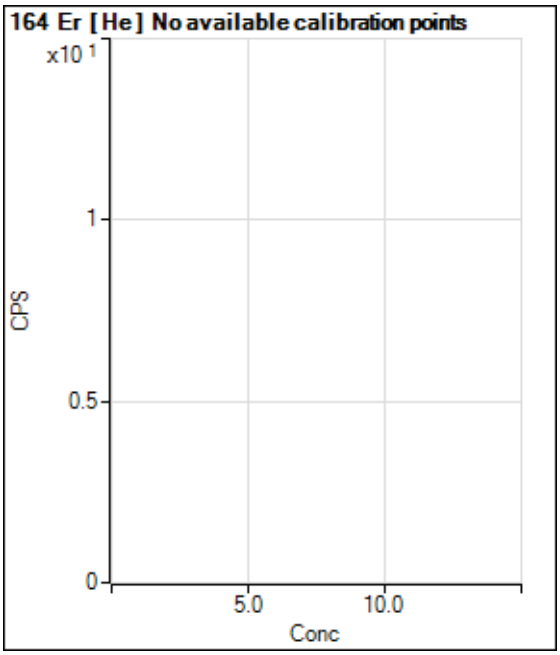


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				130.00		P	9.2
2				100.00		P	23.3
3				114.45		P	8.9
4				161.12		P	12.1
5				147.78		P	14.7
6				196.67		P	11.1
7				291.12		P	15.8
8				796.70		P	9.1

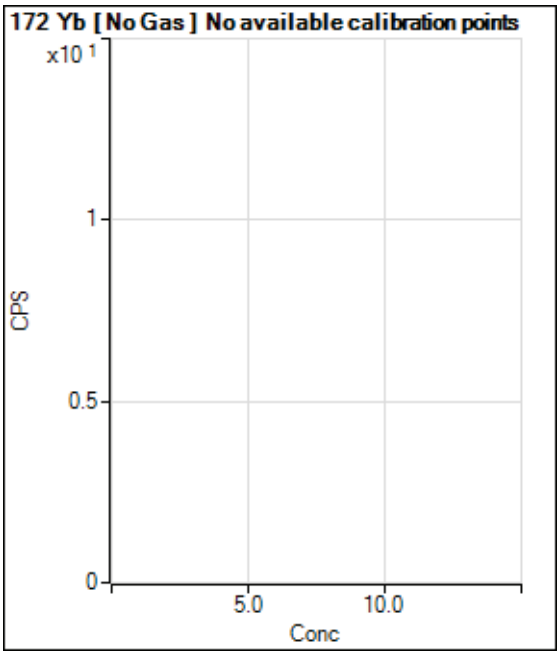


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				55.56		P	17.3
2				55.56		P	48.2
3				61.11		P	41.7
4				66.67		P	12.5
5				77.78		P	16.4
6				125.01		P	17.6
7				200.01		P	23.2
8				194.45		P	20.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				20.00		P	57.7
2				24.45		P	28.4
3				21.11		P	59.8
4				25.56		P	32.8
5				33.33		P	17.3
6				44.45		P	35.4
7				56.67		P	17.6
8				107.78		P	44.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				58.34		P	37.8
2				66.67		P	12.5
3				66.67		P	12.5
4				72.23		P	26.7
5				100.01		P	14.4
6				150.00		P	5.6
7				191.67		P	15.7
8				155.56		P	38.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
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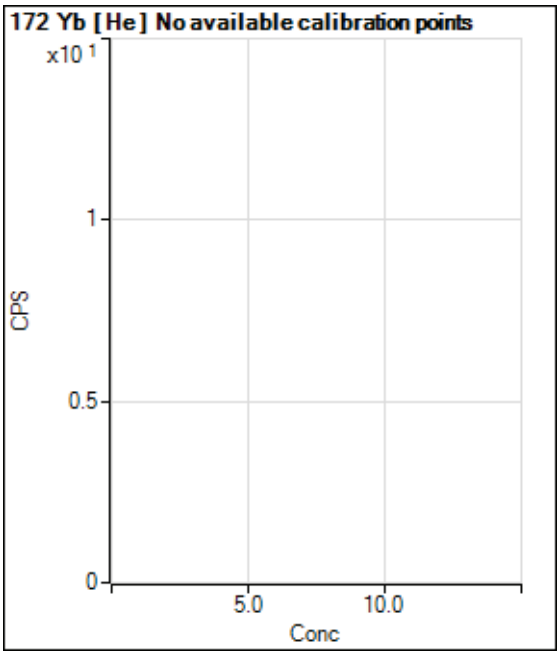
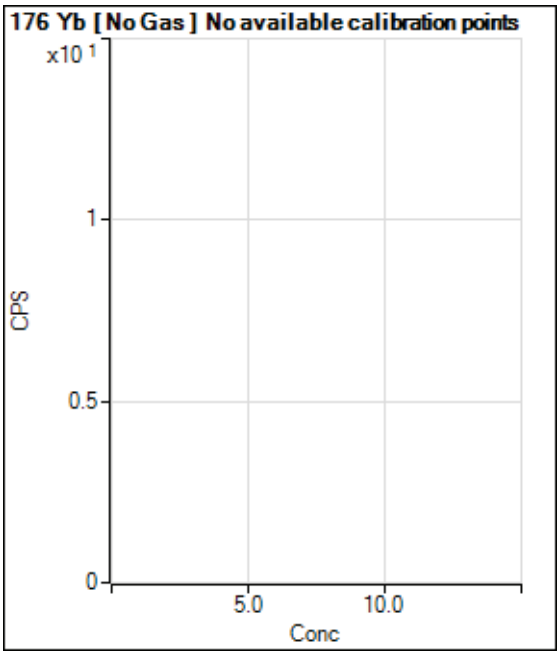


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				37.04		P	22.9
2				18.52		P	62.4
3				29.63		P	10.8
4				61.11		P	36.4
5				50.00		P	11.1
6				85.19		P	30.1
7				122.23		P	16.4
8				66.67		P	14.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1450.12		P	2.5
2				1450.13		P	14.5
3				2361.40		P	9.0
4				4248.01		P	4.8
5				7079.84		P	3.9
6				12828.78		P	3.5
7				25639.48		P	2.0
8				1391.78		P	11.1

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On:7/14/2023 8:48:56 AM
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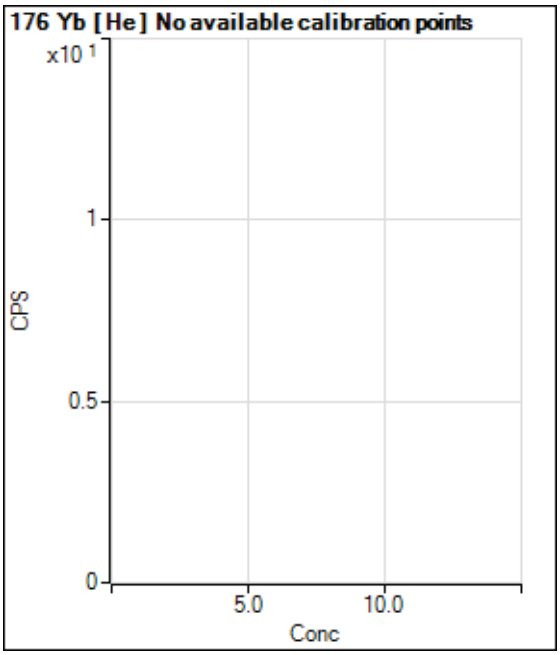
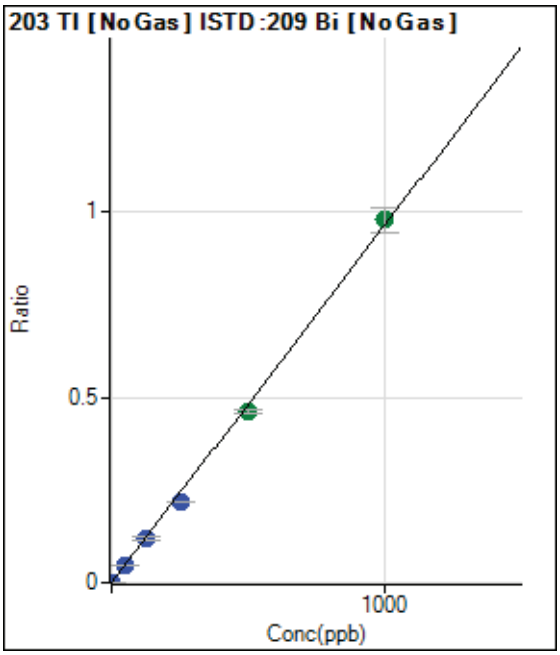


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				10070.66		P	3.1
2				9731.51		P	4.5
3				9627.73		P	1.8
4				9879.79		P	1.0
5				11697.98		P	4.0
6				14224.54		P	1.4
7				19459.03		P	1.7
8				9679.61		P	1.5

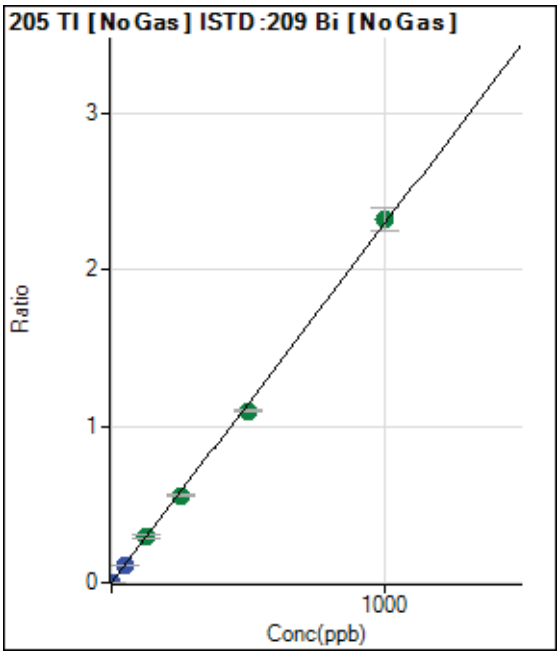


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.44	0.0000	P	22.0
2		1.000	0.841	5198.41	0.0008	P	4.5
3		50.000	48.050	278594.21	0.0463	P	8.5
4		125.000	123.877	694183.61	0.1192	P	7.0
5		250.000	226.963	1345888.70	0.2185	P	1.4
6		500.000	480.048	2840542.45	0.4620	A	2.1
7		1000.000	1015.973	5774780.03	0.9778	A	6.8
8				1614.06	0.0003	P	4.8

y = 9.6246E-004 * x + 6.9558E-006
R = 0.9994
DL = 0.004776
BEC = 0.007227

Weight: <None>
Min Conc: 0

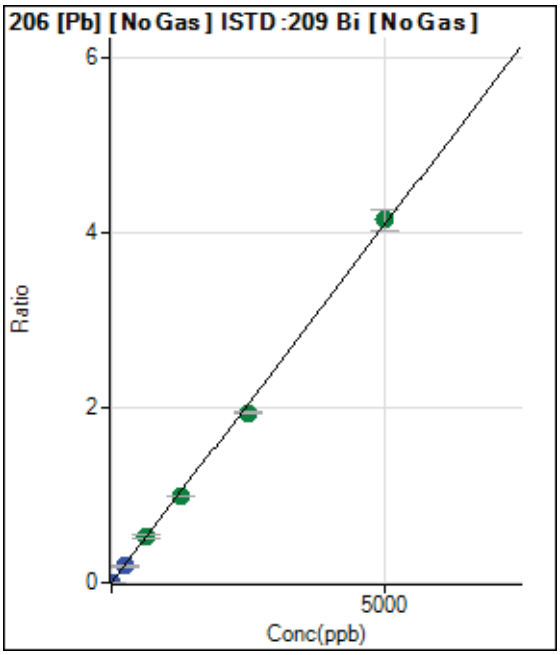
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	186.12	0.0000	P	16.6
2		1.000	0.883	13070.91	0.0021	P	1.2
3		50.000	47.993	662478.07	0.1101	P	9.8
4		125.000	130.521	1741112.63	0.2993	A	8.7
5		250.000	243.467	3439669.87	0.5582	A	0.5
6		500.000	478.942	6750475.50	1.0980	A	1.4
7		1000.000	1011.573	13698404.82	2.3191	A	6.5
8				4131.52	0.0008	P	5.4

y = 0.0023 * x + 2.9099E-005
R = 0.9996
DL = 0.006323
BEC = 0.01269

Weight: <None>
Min Conc: 0

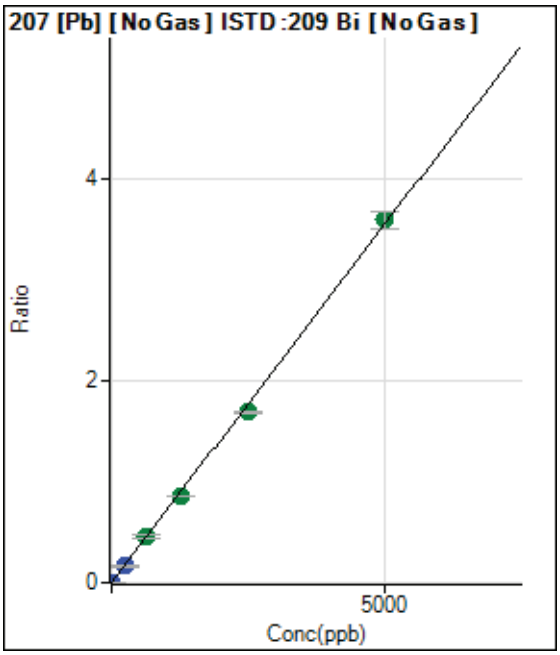


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	651.88	0.0001	P	8.2
2		1.000	0.849	5069.59	0.0008	P	1.3
3		250.000	234.630	1156358.40	0.1920	P	8.6
4		625.000	653.547	3112666.16	0.5346	A	6.8
5		1250.000	1210.719	6101427.05	0.9903	A	0.6
6		2500.000	2373.779	11935490.31	1.9414	A	1.4
7		5000.000	5070.131	24500926.01	4.1466	A	5.5
8				12600.47	0.0024	P	3.2

y = 8.1783E-004 * x + 1.0194E-004
R = 0.9995
DL = 0.03081
BEC = 0.1247

Weight: <None>
Min Conc: 0

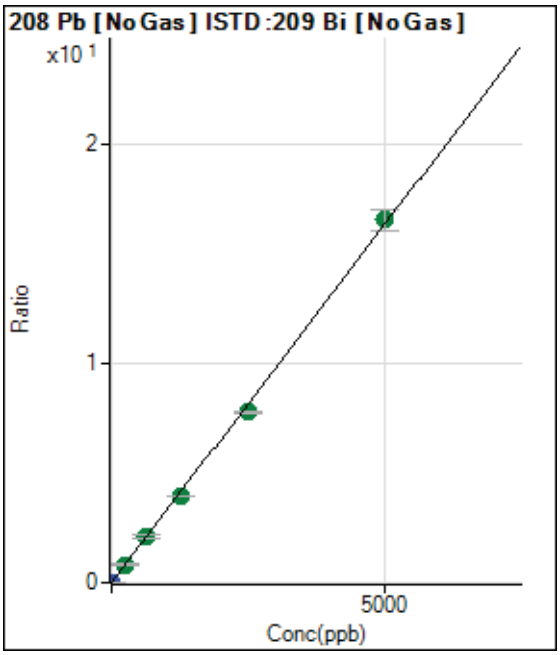
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	557.43	0.0001	P	5.9
2		1.000	0.854	4404.54	0.0007	P	3.9
3		250.000	235.112	1004484.19	0.1667	P	7.4
4		625.000	648.938	2675715.48	0.4599	A	8.7
5		1250.000	1208.510	5276119.73	0.8564	A	1.1
6		2500.000	2383.559	10383160.88	1.6889	A	1.5
7		5000.000	5066.345	21214783.34	3.5897	A	5.1
8				10896.18	0.0020	P	8.7

y = 7.0853E-004 * x + 8.7189E-005
R = 0.9995
DL = 0.02174
BEC = 0.1231

Weight: <None>
Min Conc: 0

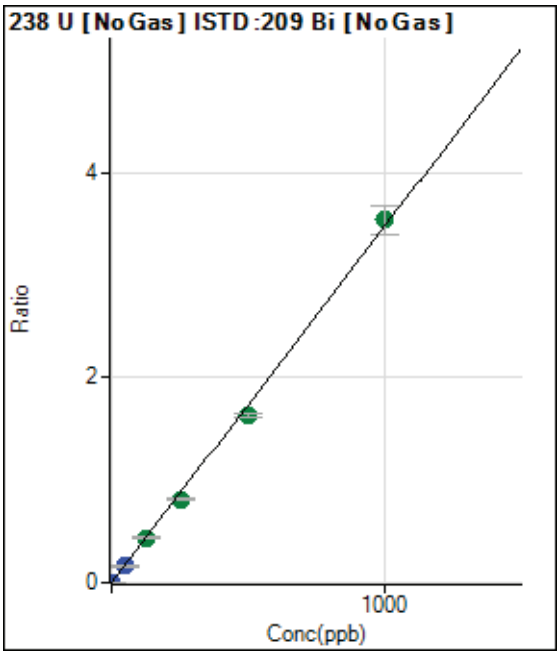


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2594.60	0.0004	P	2.1
2		1.000	0.841	20074.96	0.0032	P	2.2
3		250.000	246.724	4857126.80	0.8063	A	8.2
4		625.000	645.757	12276075.94	2.1096	A	8.2
5		1250.000	1209.189	24336955.29	3.9499	A	0.7
6		2500.000	2379.131	47777896.90	7.7712	A	1.0
7		5000.000	5068.207	97811839.22	16.5543	A	5.6
8				50987.96	0.0096	P	4.7

y = 0.0033 * x + 4.0581E-004
R = 0.9995
DL = 0.007974
BEC = 0.1242

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	49.7
2		1.000	0.833	18416.62	0.0029	P	4.2
3		50.000	46.996	982838.76	0.1631	P	8.1
4		125.000	126.287	2552268.22	0.4384	A	7.1
5		250.000	234.390	5012756.10	0.8136	A	1.4
6		500.000	470.288	10037671.84	1.6325	A	2.3
7		1000.000	1018.748	20872726.85	3.5364	A	8.3
8				4078.86	0.0008	P	7.7

y = 0.0035 * x + 3.0456E-006

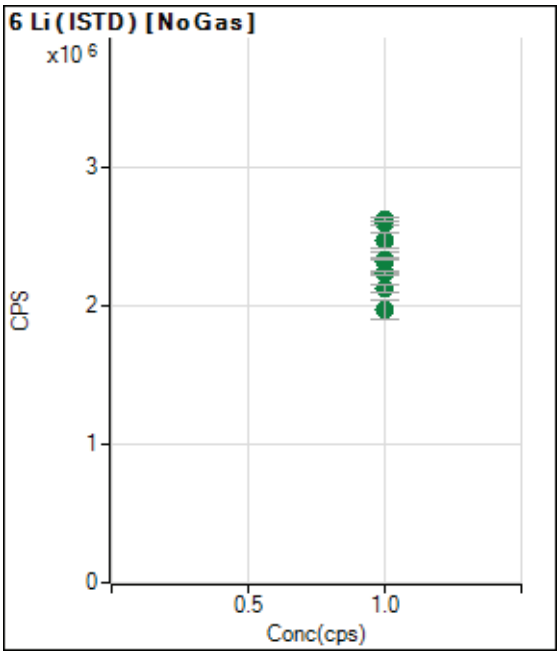
R = 0.9992

DL = 0.001309

BEC = 0.0008774

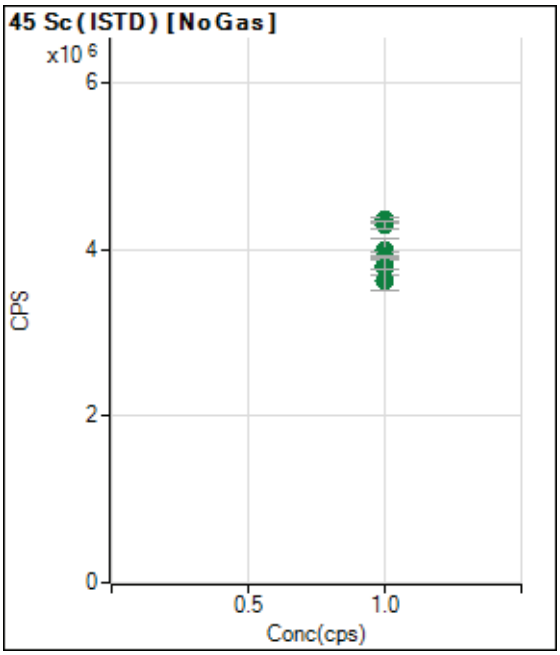
Weight: <None>

Min Conc: 0

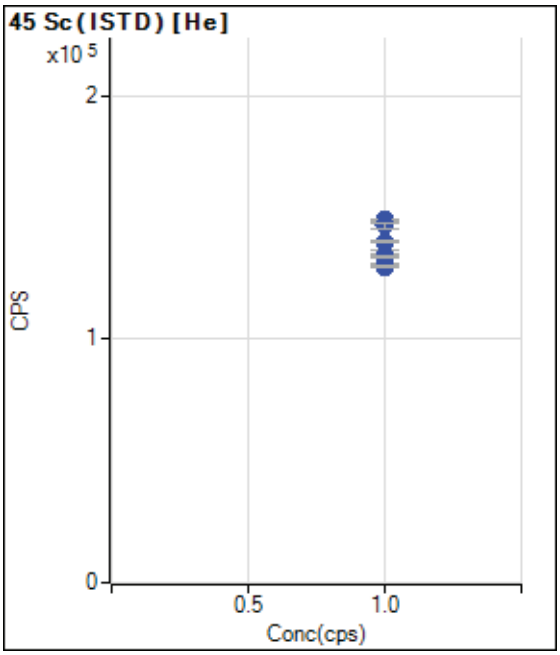


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2603032.20		A	1.0
2		1.000		2623846.94		A	0.9
3		1.000		2476707.42		A	4.4
4		1.000		2320087.36		A	6.7
5		1.000		2340265.67		A	0.9
6		1.000		2239711.47		A	1.8
7		1.000		2124741.75		A	3.0
8		1.000		1974910.39		A	7.0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

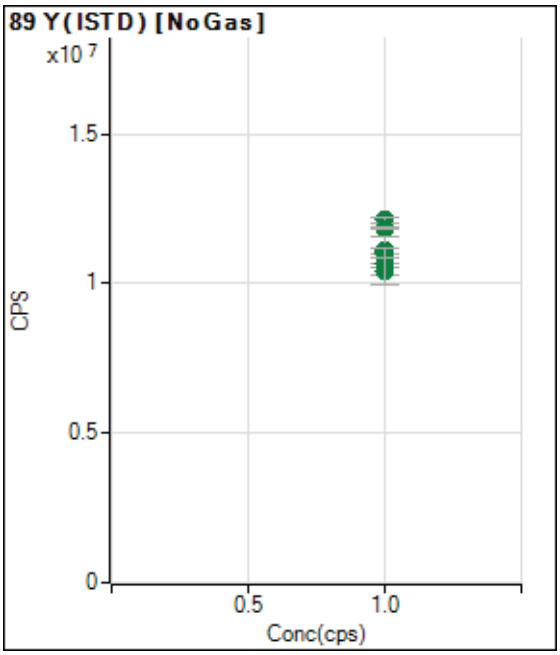


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4354339.21		A	1.6
2		1.000		4291225.14		A	1.9
3		1.000		4000697.19		A	6.2
4		1.000		3811369.08		A	6.4
5		1.000		3926135.50		A	1.8
6		1.000		3904489.28		A	1.3
7		1.000		3795074.73		A	5.1
8		1.000		3627130.68		A	7.2

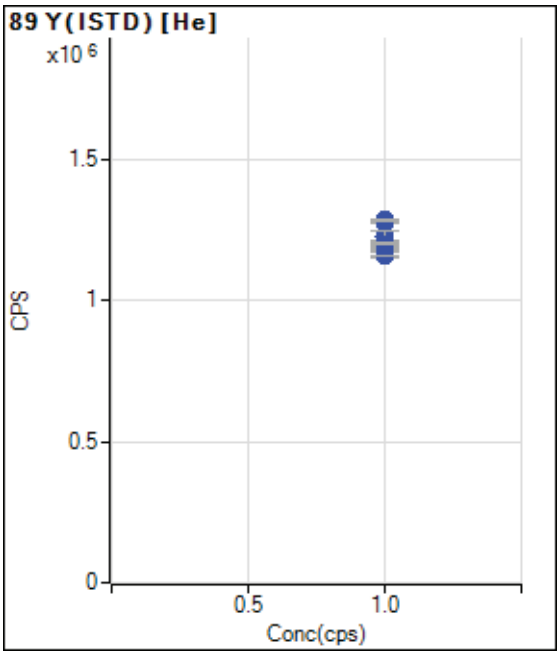


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		148863.48		P	0.6
2		1.000		146575.32		P	1.7
3		1.000		140030.43		P	0.9
4		1.000		134510.23		P	0.9
5		1.000		133351.78		P	4.1
6		1.000		129639.02		P	0.4
7		1.000		134098.09		P	1.3
8		1.000		133836.89		P	0.7

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

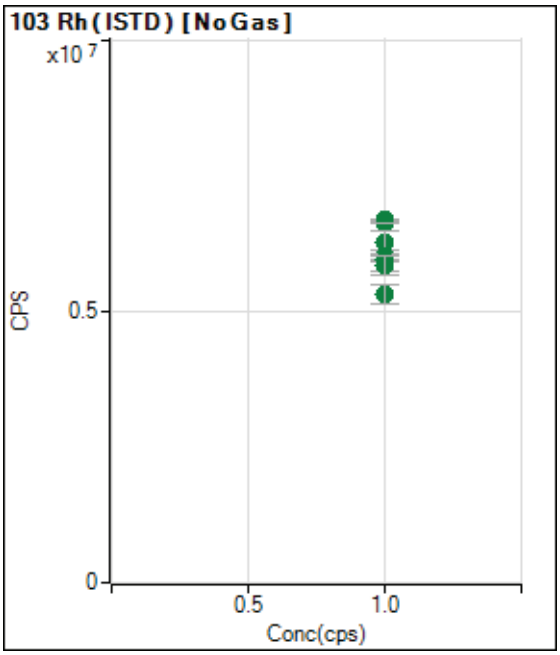


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		12130107.46		A	1.4
2		1.000		11841834.96		A	0.5
3		1.000		11123813.31		A	7.6
4		1.000		10651010.88		A	6.6
5		1.000		10999835.60		A	2.9
6		1.000		11042027.68		A	2.7
7		1.000		10865748.59		A	6.4
8		1.000		10413027.97		A	8.1

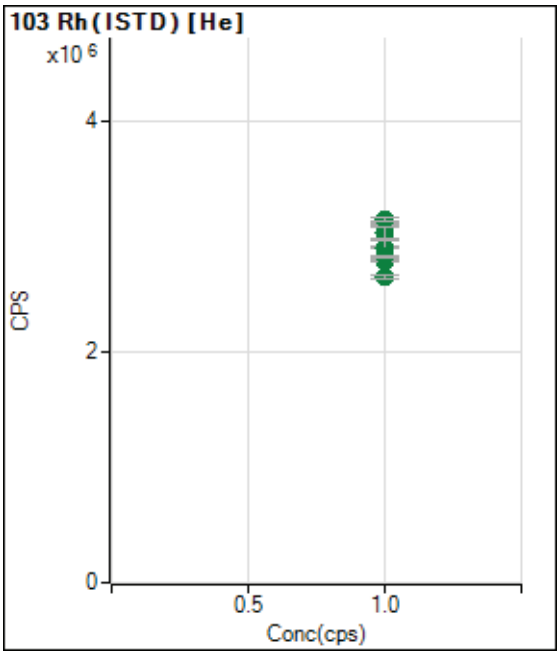


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1275974.76		P	0.5
2		1.000		1284286.62		P	0.5
3		1.000		1227872.11		P	2.7
4		1.000		1176561.98		P	0.5
5		1.000		1199825.75		M	8.1
6		1.000		1156567.87		P	0.1
7		1.000		1189821.89		P	0.6
8		1.000		1199068.12		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6679451.49		A	0.8
2		1.000		6622575.97		A	0.3
3		1.000		6263544.67		A	6.3
4		1.000		5938899.09		A	6.6
5		1.000		6005473.66		A	1.6
6		1.000		5958188.50		A	2.1
7		1.000		5837414.06		A	5.9
8		1.000		5306734.97		A	6.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3114670.75		A	0.6
2		1.000		3146957.73		A	1.2
3		1.000		3034344.64		A	3.1
4		1.000		2905751.49		A	0.4
5		1.000		2903493.64		A	4.9
6		1.000		2792840.93		A	0.8
7		1.000		2827706.45		A	1.0
8		1.000		2656534.92		A	1.1

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On:7/14/2023 8:48:56 AM
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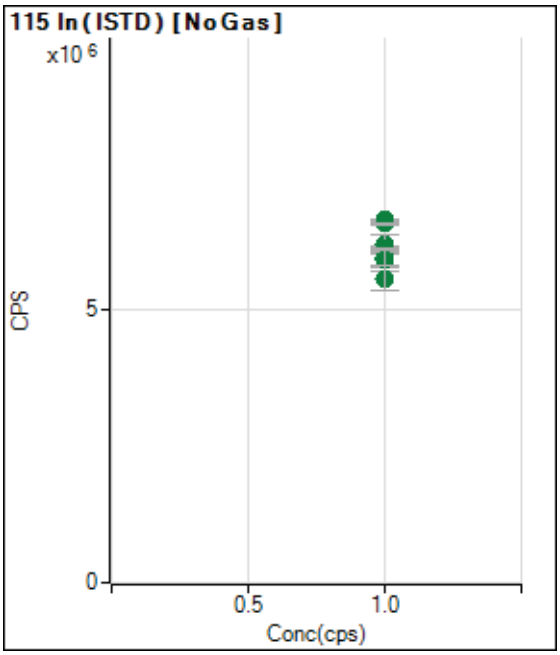
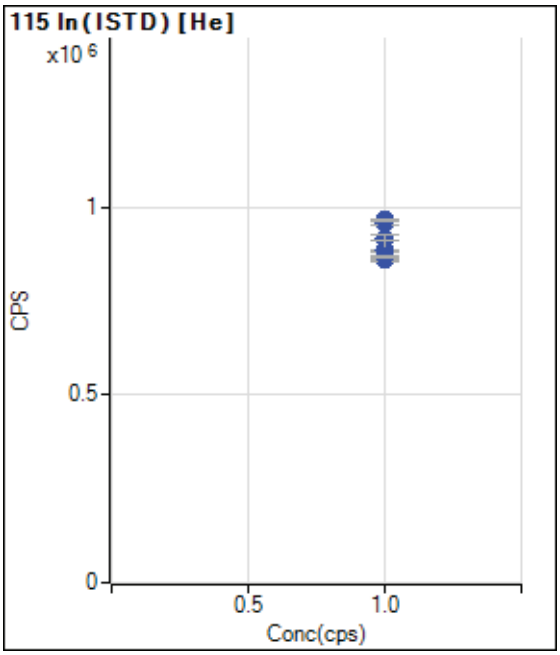


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6660958.81		A	0.7
2		1.000		6587001.59		A	0.7
3		1.000		6204830.67		A	5.6
4		1.000		5959874.15		A	5.2
5		1.000		6141761.97		A	0.7
6		1.000		6097470.25		A	0.6
7		1.000		5933258.15		A	6.7
8		1.000		5593864.69		A	7.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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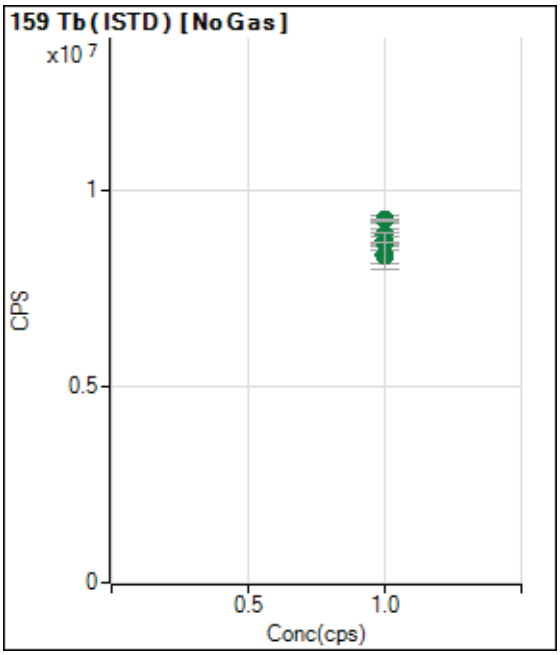
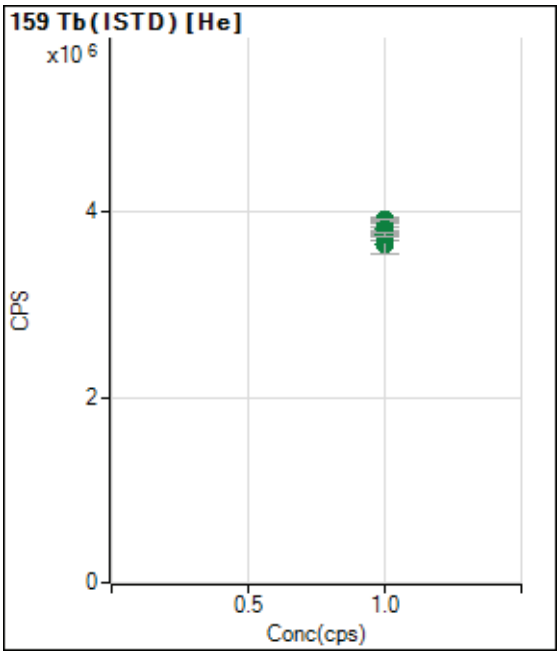
2		1.000		967323.42		P	0.2
3		1.000		919145.54		P	1.5
4		1.000		884820.23		P	0.4
5		1.000		886993.07		P	5.5
6		1.000		860787.32		P	0.6
7		1.000		871186.62		P	0.2
8		1.000		871080.35		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9235681.18		A	2.1
2		1.000		9240800.70		A	0.8
3		1.000		8792578.13		A	5.4
4		1.000		8390581.40		A	6.0
5		1.000		8704279.11		A	3.1
6		1.000		8848541.12		A	1.1
7		1.000		8690576.96		A	5.3
8		1.000		8319441.61		A	8.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3919389.80		A	1.4
2		1.000		3916865.43		A	0.7
3		1.000		3819436.40		A	0.8
4		1.000		3734282.48		A	1.4
5		1.000		3662839.39		A	5.6
6		1.000		3757439.94		A	1.2
7		1.000		3793328.80		A	0.5
8		1.000		3766357.38		A	1.1

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On:7/14/2023 8:48:56 AM
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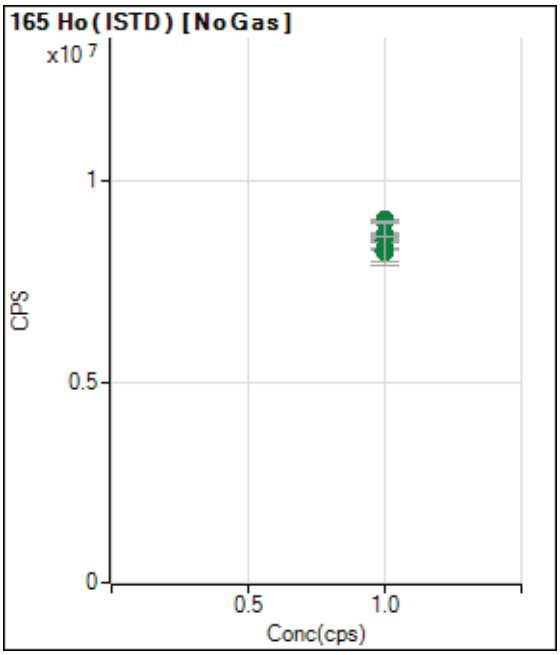
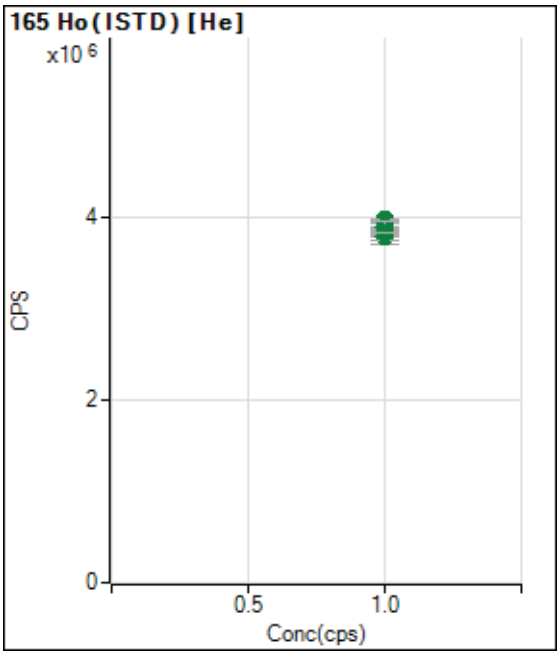


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9043296.91		A	0.6
2		1.000		8998541.69		A	0.3
3		1.000		8503689.25		A	5.0
4		1.000		8266835.43		A	6.7
5		1.000		8545550.63		A	0.9
6		1.000		8690898.20		A	0.7
7		1.000		8639384.05		A	7.4
8		1.000		8271170.32		A	8.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2		1.000		3971211.16		A	1.0
3		1.000		3874259.84		A	1.0
4		1.000		3810003.21		A	0.8
5		1.000		3804769.63		A	4.4
6		1.000		3793520.43		A	1.5
7		1.000		3911079.87		A	2.7
8		1.000		3841472.68		A	0.3

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On:7/14/2023 8:48:56 AM
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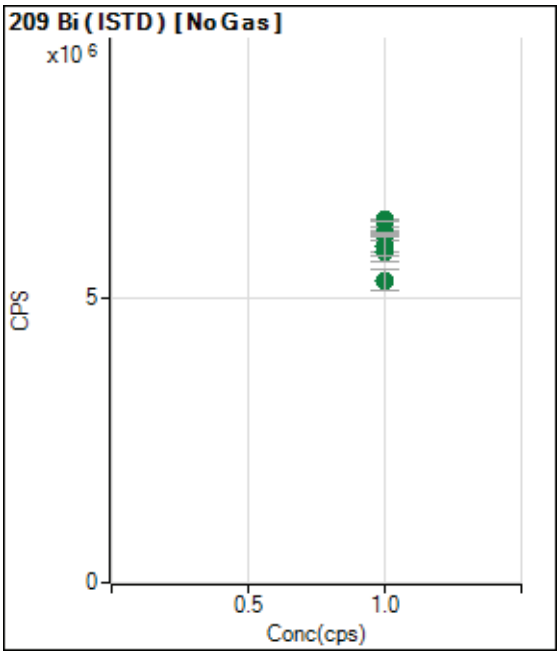
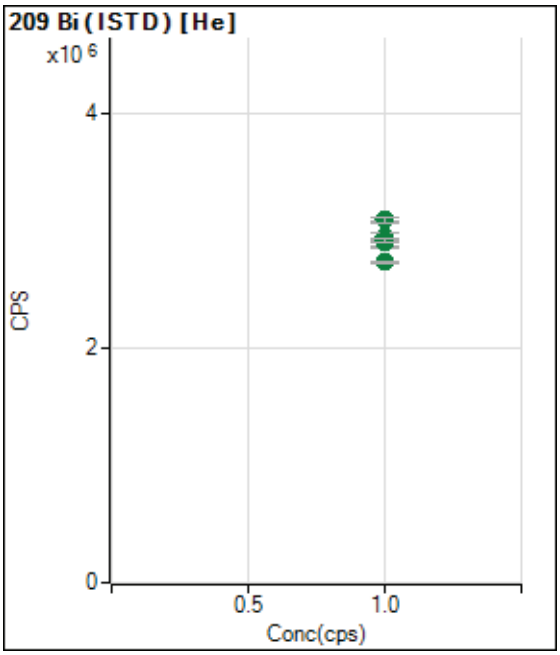


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6393530.67		A	0.5
2		1.000		6365132.34		A	0.2
3		1.000		6048848.52		A	7.5
4		1.000		5838978.53		A	6.2
5		1.000		6161777.20		A	1.7
6		1.000		6148096.02		A	0.8
7		1.000		5921521.92		A	5.9
8		1.000		5332219.29		A	7.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3093564.29		A	1.0
2		1.000		3095061.59		A	1.4
3		1.000		2956754.16		A	1.7
4		1.000		2896746.13		A	1.3
5		1.000		2923960.93		A	4.4
6		1.000		2907002.56		A	0.7
7		1.000		2919972.60		A	1.3
8		1.000		2731748.68		A	0.4

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8071223 MS.b
Acq. Date-Time	2023-07-12 09:39:12
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9014	90140.09			2.552	5.000
24		368357	3683569.46			2.338	5.000
25		48006	480058.03			2.199	5.000
26		56968	569677.38			2.515	5.000
59		72216	722163.49			3.971	5.000
113		8162	81623.54			1.946	5.000
115		105309	1053092.38			2.916	5.000
206		27278	272775.17			2.065	5.000
207		24422	244220.42			2.541	5.000
208		59663	596630.07			2.043	5.000
220		0	1.80			31.672	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

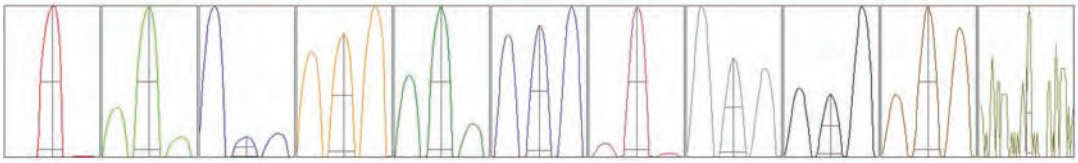
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9329	9125	8726	9007	8883
24	375525	371893	353426	369828	371113
25	49498	48063	46537	47781	48150
26	59211	56844	55207	56788	56789
59	76893	72374	69150	71455	71209
113	8336	8173	7924	8268	8110
115	109675	105847	101060	105202	104762
206	27668	27261	26333	27736	27390
207	24889	24259	23408	24687	24867
208	60223	60011	57550	59869	60663

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14938.29	9.05	8.90 - 9.10	
24	603107.28	24.00	23.90 - 24.10	
25	79799.58	25.00	24.90 - 25.10	
26	94110.22	26.00	25.90 - 26.10	
59	126702.00	59.00	58.90 - 59.10	
113	15450.12	113.05	112.90 - 113.10	
115	196437.37	115.05	114.90 - 115.10	
206	50983.21	206.00	205.90 - 206.10	
207	45744.55	207.00	206.90 - 207.10	
208	109964.61	208.00	207.90 - 208.10	
220	0.35	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.65	0.831	0.900	
25	0.64	0.792	0.900	
26	0.64	0.830	0.900	
59	0.60	0.780	0.900	
113	0.55	0.771	0.900	
115	0.55	0.775	0.900	
206	0.55	0.826	0.900	
207	0.55	0.794	0.900	
208	0.56	0.814	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16458	164584.20			3.791	
89		39407	394074.21			3.812	
205		21515	215146.59			3.059	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16651	16919	15781	17123	15819
89	39846	40389	38099	41105	37597
205	21824	21756	20499	22216	21278

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	3.8 V

US EPA Tune Check Report

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On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

Reviewed By:Bin
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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r &p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RC&w
c P b A C A b	2072	7SF5N	SF50	SF51	SFSS	u 5c	l l e
c C&b nC/	12171	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
cpwr C A q	0y72	7SF51	SF51	SFSS	SFSS	u 5c	l l e
Bsp A b	1- y71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
Bsp A b	1- 071	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
Br p/ P A b	J71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
B A b m&a	2SJ71				1SS		%
B A b m&a	2SJ72				1SS		%
Bpmb A O r	N171						ql w
. sOb A b	1SN71	SF5-	7SF51	7SF52	SFSS	u 5c	l l e
. sOb A b	1S671	1FNy	7SFJN	7SFNN	SFSS	u 5c	l l e
. sOb A b	11171	SF52	7SF51	SFSS	SFSS	u 5c	l l e
. sP q A b	4- 71	7SF66	SF- y	SF- 1	SFSS	u 5c	l l e
. sP q A b	4471	71F- 2	1F54	SF2N	SFSS	u 5c	l l e
. spenC	1271						ql w
. spenC	1272						ql w
. h P p A O r	- y71						ql w
. h P p A O r	- y72						ql w
. hpmb A b	y272	7SF56	7SF52	SF50	SFSS	u 5c	l l e
. nesP&	yJ72	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
. nl l r p	6- 72	SF5-	7SF5-	SFSS	SFSS	u 5c	l l e
t / wl pnw A b	1y671						ql w
t / wl pnw A b	1y672						ql w
Epe A b	16471						ql w
Epe A b	16472						ql w
Gs O nF A C A b	16S71						ql w
Gs O nF A C A b	16S72						ql w
H nP b A b	16y71				1SS		%
H nP b A b	16y72				1SS		%
DDO A b	11y71				1SS		%
DDO A b	11y72				1SS		%
Dpn C	y472	7SF2N	SF60	7SF- N	SFSS	u 5c	l l e
Dpn C	y672	7SF5-	SF54	7SF51	SFSS	u 5c	l l e
Dpn C	y072	71F1-	SF5y	1F5J	SFSS	u 5c	l l e
Kp/ l &a C	N- 71						ql w
Lr s O	2S671	SFSS	7SF51	SF51	SFSS	u 5c	l l e

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RC&w
LrsO	2S071	SFSS	SFS1	SFSS	SFSS	u5c	l l e
LrsO	2SN71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
LA&nAmb	671				1SS		%
9 sMOr wAmb	2472	7SF21	7SF2N	SF4J	SFSS	u5c	l l e
9 sOMsOr w	yy72	SFSS	SFS1	7SFS2	SFSS	u5c	l l e
9 nP eOr Omb	J471	SFS2	7SFS1	7SFS1	SFSS	u5c	l l e
9 nP eOr Omb	Jy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
9 nP eOr Omb	J671	7SFS1	7SFS1	SFS1	SFSS	u5c	l l e
9 nP eOr Omb	J071	7SFS1	SFS2	7SFS1	SFSS	u5c	l l e
9 nP eOr Omb	JN71	SFSS	SFSS	SFS1	SFSS	u5c	l l e
u r nO b Amb	1yS71						ql w
u r nO b Amb	1yS72						ql w
u Aqkr P	6S72	SFSS	7SFS1	SFS1	SFSS	u5c	l l e
8hnwl hnpmw	- 172	16F46	yF6y	746Fy2	7NF14		l l e
8n&swwAmb	- J72	71F41	SF14	1F20	SFSS	u5c	l l e
v hnOAmb	1S- 71				1SS		%
v hnOAmb	1S- 72				1SS		%
3qsCOAmb	4y71				1SS		%
3qsCOAmb	4y72				1SS		%
3r P CAmb	N271	7SF2N	SF14	SF14	SFSS	u5c	l l e
3r P CAmb	0072	7SF- N	SF0y	7SF- N	SFSS	u5c	l l e
3r P CAmb	0N72	SF2N	7SF2-	7SFS4	SFSS	u5c	l l e
3 AqnC	2N71	SFSS	SFS2	7SFS2	SFSS	u5c	l l e
3 Agr p	1S071	SFSS	SFSS	SFS1	SFSS	u5c	l l e
3 Agr p	1SJ71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
3nOAmb	2- 72	2F2S	71FSy	71F1y	SFSS	u5c	l l e
3 &nC&Amb	N671	SFSS	7SFS2	SFS2	SFSS	u5c	l l e
3 &nC&Amb	NN71	SFS1	7SFS1	SFSS	SFSS	u5c	l l e
3 mPmp	- 471	71J6FJS	711F00	7210F42	7142FS-		l l e
i r peAmb	1yJ71				1SS		%
i r peAmb	1yJ72				1SS		%
i hsPAmb	2S- 71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i hsPAmb	2Sy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i AC	11N71	7SFS2	SFS1	SFS1	SFSS	u5c	l l e
i A&sCAmb	4071	SFSS	SFSy	7SFS4	SFSS	u5c	l l e
RpsCAmb	2- N71	SFSS	SFSS	SFSS	SFSS	u5c	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2- 7S0712 12:SJ:14	t s&sU A P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RCA&w
VsOsOAmb	y172	SFSS	SFSS	SFSS	SFSS	u5c	l l e
Y&&pe Amb	10271						ql w
Y&&pe Amb	10272						ql w
Y&&pe Amb	10671						ql w
Y&&pe Amb	10672						ql w
Y&&pA mb	NJ71				1SS		%
Y&&pA mb	NJ72				1SS		%
ZAOq	6672	7SFS1	SFSS	SFS1	SFSS	u5c	l l e
ZA qnCAmb	JS71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
ZA qnCAmb	J171	SFS2	SFS1	7SFS-	SFSS	u5c	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju rwo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju rwo pl :	3 S2	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
i wNu TbTNu	2072	1MGSn	1MGD6	1MG12	1MG 1	2GS2	r r m
i oDDu Coy	12171	1GP6	1GD1	1GDn	1GD0	4G 0	r r m
i eeaboTA	0n72	1G1-	1G12	SGM1	1GSn	11GP6	r r m
BJeTNu	1- n71	MGS6	PGD4	PG44	PG6P	- GP1	r r m
BJeTNu	1- 071	PGD2	MGPn	MG1S	MG22	6G22	r r m
Bbeywi TNu	M71	SGM0	1GS1	SGMM	SGMM	1GPn	r r m
BTau NDn	2SM71				1SS		%
BTau NDn	2SM72				1SS		%
BeOu Tbb	P171						A r a
5 Jqu TNu	1SP71	SGPS	1G1n	SGMM	SGMP	10G60	r r m
5 Jqu TNu	1S671	72G11	2G M	71G4n	7SG M		r r m
5 Jqu TNu	11171	SGP4	SGM-	SGM6	SGM1	6GDP	r r m
5 JvATNu	4- 71	414G4n	441G1P	44SGDn	4- 2G1-	- GD4	r r m
5 JvATNu	4471	41MG4P	440GPM	442G M	4- 6GDM	- G4n	r r m
5 JemOo	1271						A r a
5 JemOo	1272						A r a
5 hwDeTbb	- n71						A r a
5 hwDeTbb	- n72						A r a
5 heOu TNu	n272	1GPP	1GMh	1GM-	1GM2	1G6M	r r m
5 OmJwD	nM72	SGM6	SGM6	SGMh	SGM6	SG4P	r r m
5 Orr be	6- 72	1GPM	1GP2	1GPM	1GP0	2G S	r r m
I yar eOaTNu	1n671						A r a
I yar eOaTNu	1n672						A r a
EemTNu	16471						A r a
EemTNu	16472						A r a
GJqOwbTNu	16S71						A r a
GJqOwbTNu	16S72						A r a
HOw TNu	16n71				1SS		%
HOw TNu	16n72				1SS		%
poqTNu	11n71				MM		%
poqTNu	11n72				1S1		%
peOo	n472	nSGDM	40G20	n1GD4P	4MGPP	4G6S	r r m
peOo	n672	4PG61	46GMh	4PG6M	4PGSM	2GSn	r r m
peOo	n072	44GS6	40GP4	4PG4-	46GDP	nGS0	r r m
Keyr DDo	P- 71						A r a
LbJq	2S671	SGPn	SGP6	SGP4	SGPn	1GD4	r r m

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju rwo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju rwo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
LbJq	2S071	SCPM	SCP2	SCPn	SCPn	4C44	r r m
LbJq	2SP71	SCP4	SCP6	SCP2	SCP4	2C06	r r m
LTDTNu	671				1S1		%
g JvobaTNu	2472	404C40	40nC11	4M2C10	4PSC0P	2CSM	r r m
g JovJobab	nn72	SCM6	SCM4	SCP4	SCM1	6C62	r r m
g OymqboNu	M471	nCSS	nCSM	nG 2	nC1-	- C1P	r r m
g OymqboNu	Mn71	4G P	4C41	4C2n	4G n	2CSS	r r m
g OymqboNu	M671	4C42	4C4M	4G 6	4C42	1C46	r r m
g OymqboNu	M071	4G 2	4C1M	4G 6	4C2M	2C12	r r m
g OymqboNu	MP71	4C0n	4C2-	4C4-	4C4S	- C06	r r m
8 bOqyu TNu	1nS71						A r a
8 bOqyu TNu	1nS72						A r a
8 TAkbw	6S72	1CS6	1C1S	1C16	1C11	4G -	r r m
I hOarhOaNa	- 172	4C16	710CS4	- 0G S	PC14	- - 6C00	r r m
I CDJaaTNu	- M72	40- CS1	4n6C66	4n6C11	4610C4	2CSP	r r m
UhOqTNu	1S- 71				MM		%
UhOqTNu	1S- 72				1S1		%
3 AJoqTNu	4n71				MM		%
3 AJoqTNu	4n72				MP		%
3 bwboTNu	P271	nC12	4C2-	4C04	4C06	MC06	r r m
3 bwboTNu	0072	2C00	6G P	4CSM	4C4P	- PCPS	r r m
3 bwboTNu	0P72	- C0h	6CS0	4C26	4C06	24CS4	r r m
3 TWACo	2P71	SC0M	SC02	SC60	SC66	1SC4M	r r m
3 TWbe	1S071	SCM2	SCM0	SCMP	SCM6	- CS6	r r m
3 TWbe	1SM71	SCM1	SCM0	SCM2	SCM4	2CM4	r r m
3 OqTNu	2- 72	4P0CM2	40- C4n	4M2C04	4P4C0S	2CS0	r r m
3 DaOoDTNu	P671	SCPP	SCPn	SCP0	SCP6	1C0-	r r m
3 DaOoDTNu	PP71	SCM4	SCPM	SCP0	SCMS	- CP4	r r m
3 NvNe	- 471	716SC0S	2MPC1-	2PPC60	142CS-	1P4C62	r r m
&bemTNu	1nM71				1SS		%
&bemTNu	1nM72				1SS		%
&hJwwTNu	2S- 71	SCPM	SCP-	SCP1	SCP4	4C0P	r r m
&hJwwTNu	2Sn71	SCP0	SCPP	SCPM	SCPP	1C2-	r r m
&Tb	11P71	4G 4	4G 2	4C44	4G 0	1C40	r r m
&TDJoTNu	4071	4C46	4C4-	4C06	4C4P	1C42	r r m
F eJoTNu	2- P71	SCP1	SCP0	SCP1	SCP-	4C22	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Number:	LB1264S0	drbeJDDe:	9Jas Jw
LJm3Jurwpd :	3S2	poaDNu obD8Jub :	I P
5wboD3Jurwpd :	3S2	I TWDDo . JADDe:	1
I JDDt &Tubi AcNEbq :	2S2-7S0712 12:12:16	I JDJ. Tw 8Jub :	SSn5i L3Gq

I JeJubDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	FoTa
VJoJqTNu	n172	4CPn	4CG2	4CGP	4CD2	2CD4	rrm
YDDemTNu	10271						Ara
YDDemTNu	10272						Ara
YDDemTNu	10671						Ara
YDDemTNu	10672						Ara
YDDeTNu	PMV71				MP		%
YDDeTNu	PMV72				1S1		%
ZTbA	6672	2C1M	2CS0	2C4-	2C2-	PC2S	rrm
ZTbAOoTNu	MS71	SCD0	SCPM	SCD4	SCPS	MCPM	rrm
ZTbAOoTNu	M171	SCD0	SCPS	SCPM	SCP2	0CP1	rrm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARVC5oncC	5oncU3D	Fnits
Aluminium	2072	1S90C92	1S9M40	1S48CSS	1S99CSS	SC98	ppb
Antimony	12171	9- C49	40C28	48CS-	4MC98	6C0M	ppb
Arsenic	0972	91C9S	9- CS2	9- C9S	92C60	10CM	ppb
Barium	1- 971	26SC 2	2- 8C30	241CS6	246C09	4C08	ppb
Barium	1- 071	269C48	241C24	242C36	24MC36	9C42	ppb
Beryllium	M71	9- C68	4M4M	4MC09	91CS4	4C9S	ppb
Bismuth	2SM71				M9		%
Bismuth	2SM72				M6		%
Bromine	8171						cps
5admium	1S871	6SC66	94CS2	92C98	99C09	0C0-	ppb
5admium	1S671	9- CS6	92CM	4MC0M	91C04	- C9M	ppb
5admium	11171	90C28	91C 6	9- C90	94CS0	9C9-	ppb
5alcium	4- 71	98M2C 9	92- - C16	9208C0	9468C16	6C0-	ppb
5alcium	4471	9062C9-	9114C6M	929MC02	9- 08C08	6C 2	ppb
5arbon	1271						cps
5arbon	1272						cps
5hlorine	- 971						cps
5hlorine	- 972						cps
5hromium	9272	9SC S	9SCS9	48C29	4MC9-	2C26	ppb
5obalt	9M72	91CS0	4MC32	4MC90	9SC19	1C6S	ppb
5opper	6- 72	912C26	9SMC6-	4MC06M	9S6C9-	1C9-	ppb
Dysprosium	19671						cps
Dysprosium	19672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16S71						cps
Gadolinium	16S72						cps
Holmium	16971				M4		%
Holmium	16972				M0		%
Indium	11971				M4		%
Indium	11972				M6		%
Iron	9472	26S- C26	2641C6-	2994C2S	29MMC0S	1C6M	ppb
Iron	9672	2010C31	2049C0S	20SSC4M	2021C-	SC34	ppb
Iron	9072	2618C 4	29- 1C6M	29S6C09	2992C-	2C2M	ppb
Krypton	8- 71						cps
Lead	2S671	2906C6M	22SCS9	226C19	2- 4C6-	8C61	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	Fnits
Lead	2S071	299CS8	224C04	229C92	2- 9C11	0C6	ppb
Lead	2S871	26M8-	2- 2C29	2- 8CSM	246C02	8C2S	ppb
Lithium	671				M9		%
g avnesium	2472	94- M026	941- C4-	9262C22	9- 01C64	1C08	ppb
g anvanese	9972	9S- C09	4M6C49	488C2	4M6C24	1C90	ppb
g olybdenum	M471	99M62	480C89	4M9C1M	914C4M	0C64	ppb
g olybdenum	M971	996C69	4M0C19	912CS0	921C06	9C4	ppb
g olybdenum	M671	901C01	4M0C6M	911C42	926C04	0C40	ppb
g olybdenum	M071	96- C6S	484C8S	4M0C1M	919C46	8C1M	ppb
g olybdenum	M871	909C4-	4M- C14	9S6CSS	924C86	8C4-	ppb
Neodymium	19S71						cps
Neodymium	19S72						cps
Nickel	6S72	94C09	9- C9-	92C82	9- C0S	1C82	ppb
Phosphorus	- 172	1S10C21	1S- 2C2S	1S48C6M	1S- 2C0S	1C92	ppb
Potassium	- M72	2990C2M	2926C09	2916C9M	29- - C61	SC8-	ppb
Uhodium	1S- 71				M4		%
Uhodium	1S- 72				M0		%
3candium	4971				M2		%
3candium	4972				M4		%
3elenium	8271	6SC0S	9- C0M	91C02	99C40	8C42	ppb
3elenium	0072	69C6S	40C86	44CSS	92C4M	21C09	ppb
3elenium	0872	94C00	9M4S	6- C96	9M24	0C42	ppb
3ilicon	2871	61C09	9- C61	94C04	96C8-	0C88	ppb
3ilRer	1S071	99C01	9SC84	91C9M	92C02	4C00	ppb
3ilRer	1SM71	96C1M	9SCS-	9SC40	92C2-	6C98	ppb
3odium	2- 72	9669C00	998SC98	9482C60	9906C4	1C64	ppb
3trontium	8671	1419C16	12- 9C64	1291C0S	1- SSC8-	0C64	ppb
3trontium	8871	1- 80C08	1226CS6	121M8S	1200C88	0C49	ppb
3ulfur	- 471	- S29C4-	1- M9C2-	1406C10	1M69C61	46C04	ppb
Terbium	19M71				M9		%
Terbium	19M72				M0		%
Thallium	2S- 71	92C06	49C49	49C04	48CS9	8C9S	ppb
Thallium	2S971	9- C9	44C91	46C12	40C0M	M81	ppb
Tin	11871	94C12	48C4M	48C0M	9SC40	6C28	ppb
Titanium	4071	940C8S	4M2C8	4M9C8-	912CSS	6CS6	ppb
Franium	2- 871	91C8	44C44	49C18	40CSS	8C11	ppb

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	F nits
Vanadium	9172	91C2S	92C42	9SC00	91C46	1C66	ppb
Ytterbium	10271						cps
Ytterbium	10272						cps
Ytterbium	10671						cps
Ytterbium	10672						cps
Yttrium	8M71				M2		%
Yttrium	8M72				M6		%
Zinc	6672	921CSS	91M48	9S4C49	9140M8	1C08	ppb
Zirconium	MS71	9- C6M	40C M	48C12	4MC0-	6C04	ppb
Zirconium	M171	9- C0	46C44	48CS-	4MC48	8CS2	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTb
i lNu TbTNu	2072	26S45- 2	2g4- 524	2g9056S	2g095- M	1522	r r m
i oDu Coy	12171	116569	1- 05- M	129591	12056-	951g	r r m
i esboTA	0g72	1- S5- S	126592	126599	1295SS	15g6	r r m
BaeTNu	1- g71	g92511	69M5SS	64g5- M	6- 9594	9541	r r m
BaeTNu	1- 071	gM- 560	6M65S-	6465M1	64g5g4	05M-	r r m
BbeylITNu	M71	11M5- 9	14155S1	12052-	12M52S	9540	r r m
BTsu NDn	2SM71				M1		%
BTsu NDn	2SM72				M4-		%
BeOu Tbb	9171						Ar s
n aqu TNu	1S971	1- - 5SS	1495MS	14S52M	14S50-	g566	r r m
n aqu TNu	1S671	12456M	1gS564	1- 652M	1- 0521	M540	r r m
n aqu TNu	11171	12g5- 2	1495- 2	14S500	1- 9514	954M	r r m
n alATNu	4- 71	126SM5- S	1492252-	1- gg9502	1- 66- 542	951-	r r m
n alATNu	4471	122915MM	14- 9S52g	1- g60562	1- 4SM5Mg	059M	r r m
n aemOo	1271						Ar s
n aemOo	1272						Ar s
n hlOeTbb	- g71						Ar s
n hlOeTbb	- g72						Ar s
n heOu TNu	g272	12- 560	11M51M	11M500	12S590	25S1	r r m
n OmalD	gM72	1265M1	12- 516	12g5S	12g52-	15g2	r r m
n Or r be	6- 72	1- 02526	1290512	1- 1M5S-	1- 26514	- 524	r r m
I ysr eOs TNu	1g671						Ar s
I ysr eOs TNu	1g672						Ar s
EemTNu	16471						Ar s
EemTNu	16472						Ar s
GaqOTbTNu	16S71						Ar s
GaqOTbTNu	16S72						Ar s
HOlu TNu	16g71				M1		%
HOlu TNu	16g72				M6		%
poqTNu	11g71				9M		%
poqTNu	11g72				M2		%
peOo	g472	6g4051S	6- 01520	64M0596	64025S9	154S	r r m
peOo	g672	60S2544	6g6S5- 9	66M05- -	66g- 5- 9	1521	r r m
peOo	g072	64SM524	626- 52S	624651-	6- S651M	1542	r r m
Keyr DDo	9- 71						Ar s
Lbaq	2S671	61- 5M0	0S1591	644596	6g- 5gg	6592	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTb
Lbaq	2S071	gM454M	0S052g	64g5S0	6495M4	950S	r r m
Lbaq	2S971	gM0540	0S256g	6- 051g	64g506	9522	r r m
LTbTNu	671				9M		%
v aRobsTNu	2472	1- 022509	1- ggg529	14S24506	1- 06056S	150-	r r m
v aoRaobsb	gg72	12- 65M4	11M4599	122454M	12195 00	1500	r r m
v Clymqbo Nu	M471	12g259-	14g9506	1- S459g	1- - 9591	95SS	r r m
v Clymqbo Nu	Mg71	12- g512	144M5M2	1- SM5gg	1- - 15g-	951M	r r m
v Clymqbo Nu	M671	122M544	14g450g	1- SM512	1- - 151S	95g9	r r m
v Clymqbo Nu	M071	12295g4	14g955S2	129g5S0	1- 2- 599	M5S-	r r m
v Clymqbo Nu	M971	12295gM	141M5g1	120M5S6	1- SM5S6	05g6	r r m
8 bOqyu TNu	1gS71						Ar s
8 bOqyu TNu	1gS72						Ar s
8 TAkbl	6S72	1- 156g	129542	1- - 5- 4	1- 1514	15M1	r r m
PhOsr hOaNs	- 172	244M594	2- g95- S	2g645M4	24g056M	4521	r r m
PODassTNu	- M72	6- 10596	6S6- 560	61005- 9	61965- 1	25S6	r r m
F hOqTNu	1S- 71				9M		%
F hOqTNu	1S- 72				M4		%
3 AaoqTNu	4g71				99		%
3 AaoqTNu	4g72				MS		%
3 blboTNu	9271	1- S521	14M5S0	1- g5g-	1- 9520	05S-	r r m
3 blboTNu	0072	124506	12S561	1465M9	1- S50M	1S594	r r m
3 blboTNu	0972	1- 45- 1	141562	1- g5- 1	1- 05S9	259M	r r m
3 TTAOo	2971	1205- 1	1gS5- -	1- 0500	1- 9540	95- 2	r r m
3 TUbe	1S071	12- 596	1- M5M9	1- g512	1- 25M9	6522	r r m
3 TUbe	1SM71	12150M	14- 5S1	1- 6524	1- - 569	9511	r r m
3 OqTNu	2- 72	1- 6g454-	1- 4965MS	1- g6g51-	1- g6959 2	S562	r r m
3 DaOoDTNu	9671	- SM150M	- 6g452g	- 241522	- - 2M5SM	950g	r r m
3 DaOoDTNu	9971	2Mg652-	- g11590	- 2- 65- M	- 2- 459-	95gM	r r m
3 NifNe	- 471	29gM51g	46- 6522	- - MM5S2	- 6- 1546	2g5SM	r r m
&bemTNu	1gM71				M1		%
&bemTNu	1gM72				Mg		%
&hallTNu	2S- 71	116542	1- - 5- 9	1215 9-	12- 599	65MM	r r m
&hallTNu	2Sg71	11M5MM	1425g4	12M5S-	1- S5g2	950S	r r m
&Tb	1197 1	1145M0	1- M5- M	1- 15M4	129500	M502	r r m
&TaoTNu	4071	11MS50M	1- 9g59-	12M05- 9	12M15- -	05g6	r r m
. eaoTNu	2- 971	1105MM	1- g50-	12g514	12652M	05S0	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	g172	1295M4	122520	12654S	12g590	2560	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDbTNu	9M71				99		%
YDDbTNu	9M72				M2		%
ZTbA	6672	120S529	12- 654-	12gM52S	12gg5- S	15- 0	r r m
ZTbAOoTNu	MS71	1105Ig	1- 952S	12g5S9	12659 1	95- 9	r r m
ZTbAOoTNu	M171	1165DS	1- g50M	1245 92	12g500	0561	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA 5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
cPmb A5Amb	20 2	-111.-1	-SS6.4J	4662.-6	4J26.N-	4.00	l l e
c5&b n5y	121 1	240.J0	276.S1	27-.4J	27J.N2	2.J4	l l e
cpwr 5Aq	0- 2	26S.JS	244.24	216.04	24S.67	J.20	l l e
BspAmb	17- 1	124J.1J	11NJ.6-	1100.07	12S-.-2	7.1N	l l e
BspAmb	170 1	12N4.2J	1227.64	11JJ.-J	127-.N4	7.-7	l l e
Br pyPAmb	J 1	24S.-1	270.--	241.-N	27J.NN	S.N0	l l e
BAwb m&a	2SJ 1				J6		%
BAwb m&a	2SJ 2				J-		%
Bpmb A5r	N1 1						ql w
CsOb Amb	1SN 1	267.44	24J.20	2--.77	2-6.S1	2.0N	l l e
CsOb Amb	1S6 1	2--.02	24-.42	240.04	24J.67	2.16	l l e
CsOb Amb	111 1	261.66	2-S.7J	24J.N1	2-7.J-	2.67	l l e
CsPqAmb	47 1	2-664.00	2-111.S1	2466-.2J	2-140.S2	1.JJ	l l e
CsPqAmb	44 1	2-1NJ.JJ	2-S16.S1	242N4.7J	24N7S.17	1.J4	l l e
Cspen5	12 1						ql w
Cspen5	12 2						ql w
ChPmp5r	7- 1						ql w
ChPmp5r	7- 2						ql w
Chpmb Amb	-2 2	241.N6	27J.S-	22S.J-	277.J-	4.N-	l l e
CnesR&	-J 2	24J.6J	247.S7	224.N6	27J.1J	-.70	l l e
CnI l r p	67 2	2620.NS	2-27.6J	276S.2J	2-S7.J7	-.7J	l l e
t ywl pnwAmb	1-6 1						ql w
t ywl pnwAmb	1-6 2						ql w
EpeAmb	164 1						ql w
EpeAmb	164 2						ql w
GsOnP5Amb	16S 1						ql w
GsOnP5Amb	16S 2						ql w
HnPb Amb	16- 1				J4		%
HnPb Amb	16- 2				J6		%
D5OAmb	11- 1				J2		%
D5OAmb	11- 2				J2		%
Dpn5	-4 2	120N0.6-	12647.70	1102N.4-	127N6.4J	4.64	l l e
Dpn5	-6 2	171SS.6N	17SS2.N-	121N6.24	12067.26	7.J7	l l e
Dpn5	-0 2	12627.0J	12222.-1	117J-.J6	12SNS.0-	-.1N	l l e
Kpyl &a5	N7 1						ql w
LrsO	2S6 1	1210.22	1212.7S	12S2.64	121S.02	S.61	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA5&3sb l Pr:D :9	3S-	t ArP&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8sp sb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
LrsO	2S0 1	1221.62	12SJ.-4	11J4.70	12SN.-1	1.17	l l e
LrsO	2SN 1	1210.S-	12SJ.2N	12S1.24	12SJ.1J	S.6-	l l e
LA&mAmb	6 1				JS		%
Msg5rwAmb	24 2	20126.-N	267NN.77	24047.S0	26SN-.JJ	4.6N	l l e
Ms5gs5rwr	-- 2	2-2J.-4	2-0S.--	277N.N4	240J.64	4.JJ	l l e
MnPyeOr 5mb	J4 1	2-S6.70	27--.6N	24S7.1J	2421.0-	7.1N	l l e
MnPyeOr 5mb	J- 1	2-S2.J7	2762.S0	27N6.77	2410.11	7.12	l l e
MnPyeOr 5mb	J6 1	24J0.S2	27N7.12	27J4.N-	242-.SS	2.-N	l l e
MnPyeOr 5mb	J0 1	2-14.60	27J-.-4	277S.02	2417.64	7.N0	l l e
MnPyeOr 5mb	JN 1	24N4.42	27-4.16	276S.11	27JJ.-0	7.S0	l l e
urnOybAmb	1-S 1						ql w
urnOybAmb	1-S 2						ql w
uAqkrP	6S 2	262.4S	2-S.66	274.JJ	24J.7-	-.-2	l l e
8hnwlhnpmw	71 2	4J7-.J2	40JN.SN	4446.7J	4026.NS	-.74	l l e
8n&swwAmb	7J 2	12141.-7	11J22.S0	1124-.-S	1106J.0S	7.J0	l l e
RhnOAmb	1S7 1				JS		%
RhnOAmb	1S7 2				J7		%
3qs5OAmb	4- 1				JS		%
3qs5OAmb	4- 2				JS		%
3rP5Amb	N2 1	26-.J0	2-7.J0	2-4.27	2-N.S6	2.66	l l e
3rP5Amb	00 2	261.14	24J.12	272.46	240.-N	-.N2	l l e
3rP5Amb	0N 2	26N.J4	2-6.06	22-.66	2-S.4-	N.J1	l l e
3AAqn5	2N 1	267.64	2-2.S2	2-2.N-	2-6.10	2.-7	l l e
3ARrp	1S0 1	2-N.-J	240.4N	2-7.-S	2-7.1J	2.2S	l l e
3ARrp	1SJ 1	266.16	2-4.4-	2-7.4J	2-N.S7	2.07	l l e
3nOAmb	27 2	26NJ0.NN	2-JS7.1S	244S1.27	2-074.S0	4.NN	l l e
3&m5&Amb	N6 1	62JJ.6N	6S00.NN	-JJJ.71	612-.67	2.-4	l l e
3&m5&Amb	NN 1	671-.S4	-NN2.02	6S1J.-7	6S02.47	7.64	l l e
3mPmp	74 1	--7N.N0	4JNS.70	4NJ7.N7	-170.6J	6.N1	l l e
irpeAmb	1-J 1				J4		%
irpeAmb	1-J 2				J7		%
ihsPAmb	2S7 1	27S.24	226.00	227.NN	226.J6	1.4S	l l e
ihsPAmb	2S- 1	242.N2	242.6N	244.JS	247.40	S.-1	l l e
iA5	11N 1	2-2.77	27J.26	277.S0	241.--	4.S0	l l e
iA&s5Amb	40 1	240-.76	244N.16	27-4.77	242-.J-	2.62	l l e
Ups5Amb	27N 1	274.SS	270.J2	271.2-	274.7J	1.47	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	o l r ps&mp9	aswl sP
Lse:3sb l Pr:Dr :9	3S-	D5w&mb 5r &u sb r :9	8N
CPA5&3sb l Pr:Dr :9	3S-	t Ar&A5:Fsq&mp9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219 1J	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
Vs5sOAmb	- 1 2	2- 7.4-	246.02	22J.66	247.2N	- .S4	l l e
Y&&pe Amb	102 1						ql w
Y&&pe Amb	102 2						ql w
Y&&pe Amb	106 1						ql w
Y&&pe Amb	106 2						ql w
Y&&pAmb	NJ 1				J1		%
Y&&pAmb	NJ 2				J4		%
ZA5q	66 2	24J0.27	242S.J4	2202.06	27J6.JN	4.06	l l e
ZAqn5Amb	JS 1	2- 4.11	247.21	244.J6	240.47	2.70	l l e
ZAqn5Amb	J1 1	27J.1J	271.2-	271.0N	274.S0	1.JS	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju rwo pl :	3S6	poaD8Nu obD8Ju b :	I P
5 wTboD3Ju rwo pl :	3S6	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b :	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
i vNu TbTNu	2072	1S2010MM	1S1-2G4S	1S1-0G1	1S1PSG42	SGPP	r r m
i oDu Coy	12171	4P4GPM	400G6	4P0G-	4P-G1P	1GS0	r r m
i eeboTA	0M72	MS1GPP	MS6G10	MSSG00	MS2G04	SGM0	r r m
BJeTNu	1-M71	242MG00	242MG41	242SGn	242-G02	SG1-	r r m
BJeTNu	1-071	24-PGSS	2-4-GMS	2-n1GP6	2-n1G12	1G0P	r r m
BbeywTNu	n71	401G2n	4nSG6M	46nGS2	406G0n	2G4n	r r m
BTau NDn	2Sn71				n6		%
BTau NDn	2Sn72				n4		%
BeOu Tbb	P171						Ara
5 Jqu TNu	1SP71	4PnG6	4PPGM	4nSG22	4PnG1	SG1n	r r m
5 Jqu TNu	1S671	4P2G26	406G01	4n4G2n	4P4G42	1GPM	r r m
5 Jqu TNu	11171	4n-G22	4P-GM2	4P4G64	4P0G1-	1GSn	r r m
5 JvATNu	4-71	4P1-PG02	4nP66GSM	MS11-G2	4n-02G06	2G1P	r r m
5 JvATNu	4471	4PSS6GM0	4nnP1G2S	MS40MG14	4n4P0G64	2G64	r r m
5 JemOo	1271						Ara
5 JemOo	1272						Ara
5 hwOeTbb	-M71						Ara
5 hwOeTbb	-M72						Ara
5 heOu TNu	M272	4PMGMM	4PMG01	4P-G02	4PMGS6	SG2S	r r m
5 OmJwD	Mh72	4nSG04	4n2GS0	4n6G46	4n-G16	SGMh	r r m
5 Orr be	6-72	M1-6G1S	M1S1GM6	M12-GSM	M12SG24	SG4	r r m
I yar eOaTNu	1M671						Ara
I yar eOaTNu	1M672						Ara
EemTNu	16471						Ara
EemTNu	16472						Ara
GJqOwbTNu	16S71						Ara
GJqOwbTNu	16S72						Ara
HOw TNu	16M71				n6		%
HOw TNu	16M72				nM		%
poqTNu	11M71				n2		%
poqTNu	11M72				nS		%
peOo	M472	26Pn-GP	201PnGP4	20M4PG12	2021SG4M	1G2S	r r m
peOo	M672	26-P2GS0	2Mh0PG6-	264-0GMP	26266GSn	SG0M	r r m
peOo	M072	2MSP1G1P	2MSSSG0n	2M-S0GPP	2M12nG0M	SG6-	r r m
KeyrDDo	P-71						Ara
LbJq	2S671	2-nSG2-	2-nMG20	2--MGP4	2-0-GGP	1Gn	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b:	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq:	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b:	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
LbJq	2S071	2-PMSSn	2410G41	2-4PC1P	2-P-0M6	1G4M	r r m
LbJq	2SP71	2-66G26	24S6GS0	2-6MSS0	2-0nC1-	SG0P	r r m
LTDhTNu	671				P6		%
g JvobaTNu	2472	M-P0SC0S	M2S20G64	M26SSG0-	M2P--GS2	1C0n	r r m
g JovJobab	MW72	MSM-G04	M1n1CM2	M16SG0S	M1-MG4M	1G41	r r m
g OymqboNu	n471	4MP2G-4	4nSMC04	4PSnG2n	406MC02	-G4P	r r m
g OymqboNu	nM71	462nG0P	4Pn2GP0	4PMPG26	40n-C0S	2G0P	r r m
g OymqboNu	n671	466MG61	4n41G66	4P-2GSM	4P1-C11	2GPn	r r m
g OymqboNu	n071	46P2G-M	4n40G01	40-MG-P	40PPC0M	2G0-	r r m
g OymqboNu	nP71	466SG-S	MS1PGP1	406MG04	4P1MSS2	-GP-	r r m
8 bOqyu TNu	1MS71						Ara
8 bOqyu TNu	1MS72						Ara
8 TAkbw	6S72	M16G0n	M12C1M	M1-G62	M14G2M	SG4P	r r m
I hOarhOaNa	-172	1S2M-G62	n646C14	1S1M1G40	1SS10GS0	-G2M	r r m
I CDJaaTNu	-n72	24n1MG0n	2MP2SC0M6	2M-PSC0M2	2M-02G-6	1C0P	r r m
UhOqTNu	1S-71				Pn		%
UhOqTNu	1S-72				nS		%
3AJoqTNu	4M71				nS		%
3AJoqTNu	4M72				P0		%
3bwoTNu	P271	400G6n	MS2G-2	4n-G20	4n1GSn	2C04	r r m
3bwoTNu	0072	M1-G40	M10G00	M440CM	M2MG-	-G2S	r r m
3bwoTNu	0P72	M24C1-	M11G-1	MS6G-0	M1-G04	1C0P	r r m
3TWAOo	2P71	4n6G4P	4n1G-S	4n-G26	4n-G6P	SC04	r r m
3TWbe	1S071	4n6G66	4PnG-4	MSSG40	4nMG4n	1G14	r r m
3TWbe	1Sn71	4n6G0P	4n6G42	4nSGS-	4n4G4P	SG0P	r r m
3OqTNu	2-72	M-62MC1S	M2M12C01	M-nnPG6-	M--0PGP1	1G4M	r r m
3DaOoDTNu	P671	1140SGS-	12240GP6	11n-nG4n	11PPMC0n	-G-S	r r m
3DaOoDTNu	PP71	11641C04	1241-G-	12Sn4G2n	12S4nC02	-G22	r r m
3NvNe	-471	n1P-GP6	n-nMSSS	n6n2G4-	n42-G00	2C01	r r m
&bemTNu	1Mh71				n6		%
&bemTNu	1Mh72				n6		%
&hJwTNu	2S-71	400C0M1	4n1GS6	401C0M0	4PSGSM	2GSP	r r m
&hJwTNu	2SM71	4P1GS0	4P4G46	401G-S	40PG04	1G4-	r r m
&Tb	11P71	4P4C01	4P6GSP	4P4G6M	4PMC1M	SG10	r r m
&TDJoTNu	4071	404PG61	4P-2GS-	4n2-G4P	4P-4C01	1GP1	r r m
FeJoTNu	2-P71	4MPG24	40nG4M	40-G10	40SG2n	2G-2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S6	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:24:10	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
VJoJqTNu	M172	MS6G 0	MS6G2P	MS6G M	MS6G -	SGS1	r r m
YDDemTNu	10271						Ar a
YDDemTNu	10272						Ar a
YDDemTNu	10671						Ar a
YDDemTNu	10672						Ar a
YDDeTNu	Pn71				n1		%
YDDeTNu	Pn72				n1		%
ZTbA	6672	4n4MD10	4n24G4P	4nS0G-	4n2MDP6	SG P	r r m
ZTbACoTNu	nS71	460GD2	4PSG41	4nMGM	4P1G 6	2G4	r r m
ZTbACoTNu	n171	44PG2M	40SGM0	464G12	46SGP	2G4n	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
i lNu TbTNu	2072	1g90g590	2SS0M52-	1g9MS5-1	1gg-M514	S561	r r m
i oDu Coy	12171	g-4590	1Sg0590	ggg52S	1S1S56M	9512	r r m
i esboTA	0M72	1SS650M	g9051-	1SS0522	1SSS5-6	151M	r r m
BaeTNu	1-M71	46g2524	M4--56M	MS1659g	MS405Mg	05-6	r r m
BaeTNu	1-071	40--5M0	M40-50-	4gM95g6	MSMM642	05MS	r r m
BbeylTNu	g71	gg1514	1S6g5M9	g0g566	1S1-546	459-	r r m
BTsu NDn	2Sg71				g-		%
BTsu NDn	2Sg72				g4		%
BeOu Tbb	9171						A r s
n aqu TNu	1S971	g-05-2	1S6g52g	gg951M	1SS15Mg	65Mg	r r m
n aqu TNu	1S671	g-0510	1S0g59g	1SS1502	1SS6526	051S	r r m
n aqu TNu	11171	g4S52g	1S09594	gg1569	1SS-56S	65g9	r r m
n alATNu	4-71	1S-S4S501	11g-415M6	1S001-511	11SS-150g	056-	r r m
n alATNu	4471	g6S2M5gg	1Sg4M15-9	1SSMg15S4	1S2S2259S	656g	r r m
n aemOo	1271						A r s
n aemOo	1272						A r s
n hlOeTbb	-M71						A r s
n hlOeTbb	-M72						A r s
n heOu TNu	M272	1S26569	1S10522	gg2510	1S1252	1506	r r m
n OmalD	Mg72	1S19510	1S16519	g9-5g1	1SS65Sg	15g1	r r m
n Or r be	6-72	g90M5S1	1SS9-5-4	g929592	gg2g5S6	15-0	r r m
I ysr eOs TNu	1M671						A r s
I ysr eOs TNu	1M672						A r s
EemTNu	16471						A r s
EemTNu	16472						A r s
GaqOTbTNu	16S71						A r s
GaqOTbTNu	16S72						A r s
HOlu TNu	16M71				g6		%
HOlu TNu	16M72				g9		%
poqTNu	11M71				9g		%
poqTNu	11M72				g1		%
peOo	M472	M290954M	M29Mg544	M1g0S542	M2M6g544	S5gg	r r m
peOo	M672	M26S954M	M1-645gS	MSMMS5-0	M1MS05g1	25S1	r r m
peOo	M072	M2-1-51M	M1g-65gS	M14905M4	M1g125M4	S59S	r r m
Keyr DDo	9-71						A r s
Lbaq	2S671	496256M	M-9956S	4gMg51M	MS0S51-	M5M2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	49- - 50M	M-44512	MS21516	MS665-M	M61S	r r m
Lbaq	2S971	494S526	M-94566	4g0g50S	MS69521	M5M9	r r m
LTbTNu	671				92		%
v aRobsTNu	2472	1S-g94501	1SM16252S	1S1g-S544	1S-6g254M	15M9	r r m
v aoRaobsb	MM72	ggM-514	g99452M	gg965g9	gg4154M	S5M-	r r m
v Clymqboi Nu	g471	gM26540	11SM25-4	g0gM592	1S124599	95S4	r r m
v Clymqboi Nu	gM71	g410560	1Sg6-521	ggM6590	1S1125M9	0506	r r m
v Clymqboi Nu	g671	g-g05- -	1Sg-9511	gg6650S	1S1SS501	0501	r r m
v Clymqboi Nu	g071	g4g954-	1Sgg451g	g9Mg5-1	1S1105-1	0501	r r m
v Clymqboi Nu	g971	g42S561	1S9-M52g	1SS0155 2	1S1S95g9	05SS	r r m
8 bOqyu TNu	1MS71						Ar s
8 bOqyu TNu	1MS72						Ar s
8 TAkbl	6S72	gg2524	gg95g4	g9M5S0	gg25S9	S50S	r r m
PhOsr hOaNs	- 172	1g6S155 4	2SM2-5g1	2SS6M5-S	2SS6-542	25-S	r r m
PODassTNu	- g72	MS4M-519	4gg-g50g	MS99152-	MS4245 0-	S5g-	r r m
F hOqTNu	1S-71				90		%
F hOqTNu	1S-72				g1		%
3 AaoqTNu	4M71				90		%
3 AaoqTNu	4M72				gS		%
3 blboTNu	9271	g-9526	1S9M566	g0056S	1SSS5M1	056-	r r m
3 blboTNu	0072	g0-54S	g9059g	1SSS5SS	g9051S	15-M	r r m
3 blboTNu	0972	gg15-M	g94506	gg650-	ggS5gM	S561	r r m
3 TTAOo	2971	g42561	1S66549	g9g5g9	ggg56g	652M	r r m
3 TUbe	1S071	g46590	1S015-S	g9259S	1SSS5-2	654S	r r m
3 TUbe	1Sg71	g2059g	1S965g0	g9-591	ggg5M6	95S0	r r m
3 OqTNu	2-72	1S20S1564	1SM1- - 526	1S260S5MM	1S-MS1591	15-0	r r m
3 DaOoDTNu	9671	2-9SS54g	20-665g9	2401g5gS	2M2gM50g	05-2	r r m
3 DaOoDTNu	9971	2-9S650S	2016M51S	24046564	2M2-g549	6596	r r m
3 NifNe	- 471	19-145g4	22S1M5g1	1g96151S	2SS6-5g9	g526	r r m
&bemTNu	1Mg71				g4		%
&bemTNu	1Mg72				g0		%
&hallTNu	2S-71	g665g1	1SgM540	g9M5M4	1S1M5g0	6594	r r m
&hallTNu	2SM71	g01529	1S96599	g065M6	1S115M0	654M	r r m
&Tb	11971	g4952g	1S94569	gg4516	1SSg5SM	6599	r r m
&TaoTNu	4071	g4M05gg	1S6065SM	1S1M2514	1SSgM5-g	65SM	r r m
. eaoTNu	2-971	gM05- -	111450S	g94522	1S1950M	9526	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
nITboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
VaoaqTNu	M172	gg45gg	1SS05g-	gg25S9	gg95-	S59M	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDaTNu	9g71				gS		%
YDDaTNu	9g72				g-		%
ZTbA	6672	ggMM50M	1S21M55S6	1SS1- 544	1SS6154-2	15- M	r r m
ZTbAOoTNu	gS71	g4M5gg	1111500	g0154g	1SSg50M	9594	r r m
ZTbAOoTNu	g171	gM-520	111S569	1SS65- 1	1S2- 542	059-	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0e:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNEbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTb
i lNu TbTNu	20 2	g- M-150M	g- M715-2	1S2- 04566	gggg65S-	254g	r r m
i oDu Coy	121 1	S5M6	S562	S5-2	S560	2S5g6	r r m
i esboTA	0M2	S570	S54S	S5M0	S54M	2757S	r r m
BaeTNu	17M1	750g	75MS	75Mg	7567	455-	r r m
BaeTNu	170 1	756-	455 0	756S	750-	6501	r r m
Bbey/lTNu	g 1	S527	S51-	S527	S521	1M516	r r m
BTsu NDn	2Sg 1				- 7		%
BTsu NDn	2Sg 2				- -		%
BeOu Tbb	- 1 1						Ar s
n aqu TNu	1S- 1	S5g2	S500	S5-0	S5-M	g54S	r r m
n aqu TNu	1S6 1	75MM	156S	15-2	2572		r r m
n aqu TNu	111 1	S5M2	S5M4	S546	S5M1	- 502	r r m
n alATNu	47 1	46240254 4	MMSgg25-g	4- SM-S561	4g- S1M572	g57g	r r m
n alATNu	44 1	40SS7- 5-1	M4g1M15-2	40g6gM64M	4gg62- 56g	- 564	r r m
n aemOo	12 1						Ar s
n aemOo	12 2						Ar s
n hlOeTbb	7M1						Ar s
n hlOeTbb	7M2						Ar s
n heOu TNu	M2 2	M51-	M544	M52-	M57S	25MM	r r m
n OmalD	Mg 2	2574	2570	257M	2576	S561	r r m
n Or r be	67 2	757S	752g	7574	7571	S5-1	r r m
l ysr eOs TNu	1M6 1						Ar s
l ysr eOs TNu	1M6 2						Ar s
EemTNu	164 1						Ar s
EemTNu	164 2						Ar s
GaqOTbTNu	16S 1						Ar s
GaqOTbTNu	16S 2						Ar s
HOlu TNu	16M1				g1		%
HOlu TNu	16M2				g0		%
poqTNu	11M1				- 4		%
poqTNu	11M2				g1		%
peOo	M4 2	24gS675M0	2M1M-45gM	2401445S6	24g2645 1g	S5-g	r r m
peOo	M6 2	2467- 156g	2M70425-M	24- M145M1	24gM4657M	15M2	r r m
peOo	M0 2	24- 66452g	24046S562	2M204M56g	24g6275M7	1511	r r m
Keyr DDo	- 7 1						Ar s
Lbaq	2S6 1	2566	250g	25-M	2500	757M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADD:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oT3
Lbaq	2S0 1	755 4	25M6	2566	250M	g51S	r r m
Lbaq	2S- 1	25g6	2501	2507	25-S	45g1	r r m
LTDTNu	6 1				06		%
v aRobsTNu	24 2	4gg- M452M	4g01425D2	4gg66- 5Mg	4g- - - - 5M2	S57S	r r m
v aoRaobsb	MM2	0527	052-	0547	0571	1541	r r m
v Clymqboi Nu	g4 1	45MS	7501	450S	4571	12514	r r m
v Clymqboi Nu	gM1	4517	756S	7506	75-7	0511	r r m
v Clymqboi Nu	g6 1	457M	750S	452g	4511	- 5-1	r r m
v Clymqboi Nu	g0 1	75gg	7561	4522	75g4	05-0	r r m
v Clymqboi Nu	g- 1	4576	7512	45S-	75-M	165g2	r r m
8 bOqyu TNu	1MS 1						Ar s
8 bOqyu TNu	1MS 2						Ar s
8 TAkbl	6S 2	M5S0	45-4	4506	45-g	7520	r r m
PhOsr hOaNs	71 2	745g2	0501	12566	1752g		r r m
PODassTNu	7g 2	24- 1g- 54g	24g7S7544	2M224M5S6	24gg1M560	S5-4	r r m
F hOqTNu	1S7 1				0g		%
F hOqTNu	1S7 2				- M		%
3 AaoqTNu	4M1				- 7		%
3 AaoqTNu	4M2				gS		%
3 blboTNu	- 2 1	M50g	M574	45MM	M527	115g4	r r m
3 blboTNu	00 2	7524	M5Mg	4541	4541	26560	r r m
3 blboTNu	0- 2	M52-	4566	- 564	651g	745MM	r r m
3 TTAOo	2- 1	1S5S4	1M51-	175-6	175S7	2S54-	r r m
3 TUbe	1S0 1	S516	S522	S516	S51-	1- 5MM	r r m
3 TUbe	1Sg 1	S51-	S51g	S516	S51-	1S576	r r m
3 OqTNu	27 2	4gM2715 1M	MS7- 17540	4g0677517	4g- - g25M-	S5-g	r r m
3 DaOoDTNu	- 6 1	- 51S	655-	65-0	0522	1S566	r r m
3 DaOoDTNu	- - 1	0512	M5S0	6562	6520	105SS	r r m
3 NifNe	74 1	7152S	17- 2522	- 7502	447527	1- 75g2	r r m
&bemTNu	1Mg 1				gS		%
&bemTNu	1Mg 2				g6		%
&hallTNu	2S7 1	S571	S572	S52g	S571	45g7	r r m
&hallTNu	2SM1	S574	S57S	S577	S572	M5M0	r r m
&Tb	11- 1	S56S	S5Mg	S5M-	S5Mg	15M2	r r m
&TaoTNu	40 1	25g7	15-S	7517	2562	2052g	r r m
. eaoTNu	27- 1	S527	S52S	S527	S522	056g	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD:e9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD8Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oT3
VaoaqTNu	M1 2	S57M	S57S	S570	S574	g54M	r r m
YDDbemTNu	102 1						Ar s
YDDbemTNu	102 2						Ar s
YDDbemTNu	106 1						Ar s
YDDbemTNu	106 2						Ar s
YDDbTNu	- g 1				- 6		%
YDDbTNu	- g 2				g4		%
ZTbA	66 2	1S5g1	1S5Mg	1S5- 0	1S50g	15Mg	r r m
ZTbACoTNu	gS 1	S5M4	S5M4	S562	S5M6	- 5- 1	r r m
ZTbACoTNu	g1 1	S5M4	S561	S5M4	S5Mg	75M4	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- 8pCTDwe t 8pJ8&JaJ	3- 7 S0	&8bT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

Nwlwe pTpl	Mwl l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
q8be cCbe	2092	4y: .uy	4u2.16	4u1.Sy	4u .02	1.46	t t r
qCTe 5Ch	12191	1y0.21	1u4.6u	1u6. u	1uy.4y	: . 6	t t r
qll pCcd	0 92	2S: .1	2Sy.S0	2S6.SS	2S6.Su	1.44	t t r
Bwlcbe	1: 91	yu.: 1	y1.: 1	y4.yu	y4.u0	: .6y	t t r
Bwlcbe	1: 091	yu.y1	yS. 1	y2.10	y: .u6	4.04	t t r
Bplh8bbe	y91	yu.16	y4. u	1SS.2u	y0.60	2.y	t t r
Bdc e bT%	2Sy91				1S1		E
Bdc e bT%	2Sy92				1S2		E
Bl5e cCp	u191						dt l
- woe cbe	1Su91	uy.21	u1.u4	u2.6S	u4.	4.0y	t t r
- woe cbe	1S691	u .0	0u.6u	04.6S	0y.6u	0.Su	t t r
- woe cbe	11191	1S4.uy	yy.y:	1SS.40	1S1.06	2.60	t t r
- w8lcbe	4: 91	1u: S.12	1001.0u	10 u.yy	10u6.y6	2.12	t t r
- w8lcbe	4491	1u: : .11	10 S.: 4	1uS4.: 2	10y .y2	2.: 4	t t r
- wlr 5C	1291						dt l
- wlr 5C	1292						dt l
- %5lcCp	: 91						dt l
- %5lcCp	: 92						dt l
- %15e cbe	292	y .S4	y .41	y4. 1	y4.yy	S.40	t t r
- 5r w8T	y92	yu.0	y0.4S	y0. 1	y0.uu	S.00	t t r
- 5t t pl	6: 92	y6.1:	y6.Sy	y: .11	y .11	1.u2	t t r
&hl t l5l cbe	1 691						dt l
&hl t l5l cbe	1 692						dt l
Glr cbe	16491						dt l
Glr cbe	16492						dt l
Hwo58Ccbe	16S91						dt l
Hwo58Ccbe	16S92						dt l
K58e cbe	16 91				yy		E
K58e cbe	16 92				1S1		E
3Ccbe	11 91				1SS		E
3Ccbe	11 92				1S1		E
35C	492	1yu .0y	1y6 .4S	1y04.: 6	1y0 .1u	S. 2	t t r
35C	692	2S: 2.1u	2S1: .6S	2S2 .1:	2S2: .64	S.46	t t r
35C	092	1y2S.u0	1uy .y2	1y1y.y4	1y12.24	S.04	t t r
klht T5C	u: 91						dt l
Lpwo	2S691	1y4.06	1y2.4u	1y: . u	1y: .6S	S. y	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- 8pCTDwe t 8pJ8&JaJ	3- 7 S0	&cbT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFcbJmwe pJa	S1 3- 7.o

NwIwe pTpl	MwI l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
Lpwo	2S091	1y2.: 2	1u .01	1uu.Su	1uu.01	1.00	t t r
Lpwo	2Su91	2S .61	2SS.S:	1yy.0u	2S1.u1	1.6:	t t r
LcP%cbe	691				y4		E
MwgCpl cbe	2492	11: S. u	1120.46	112u.u4	112u.y6	S.14	t t r
MwCgwCpl p	92	y: .2S	y4.10	y: .46	y: .61	S. :	t t r
M58hr opCbe	y491	S.10	S.14	S.1u	S.16	12.16	t t r
M58hr opCbe	y 91	S.11	S.1:	S.Sy	S.11	2S.S4	t t r
M58hr opCbe	y691	S.1:	S.1u	S.1u	S.16	1u.26	t t r
M58hr opCbe	y091	S.Sy	S.11	S.Sy	S.1S	14.24	t t r
M58hr opCbe	yu91	S.12	S.12	S.12	S.12	2.16	t t r
mp5ohe cbe	1 S91						dt l
mp5ohe cbe	1 S92						dt l
mcdf p8	6S92	1Sy.:	1S0.20	1S6.y2	1S0.u	1.22	t t r
N%5l t %5lbl	: 192	9S.: 2	91u.0	92: .4	914.10		t t r
N5TWl cbe	: y92	1u6y.0y	1u 4.: u	1u: S.20	1u 1.4u	1.Su	t t r
R%5ocbe	1S: 91				yy		E
R%5ocbe	1S: 92				1S2		E
DdwCocbe	4 91				yu		E
DdwCocbe	4 92				yy		E
Dp8pCcbe	u291	2Sy.11	21S.2y	2S . :	2Su.: 1	1.1y	t t r
Dp8pCcbe	0092	2S: .SS	214.yy	2S4.01	2S0. 0	: .1:	t t r
Dp8pCcbe	0u92	21: .64	21y.26	210.: u	216.06	1.: 2	t t r
Dc8d5C	2u91	S.4	S.1y	S.2:	S.2y	4u.yS	t t r
Dc8vpl	1S091	4y.u6	46.6y	40.: 0	40.y0	: .4u	t t r
Dc8vpl	1Sy91	4y.4S	46.0u	40.:	40.u4	2.uy	t t r
D5ocbe	2: 92	1y6y. u	1y S.Su	1y42.60	1y 4.11	S.01	t t r
DTT5CTbe	u691	S.44	S.21	S.24	S.: S	42.10	t t r
DTT5CTbe	uu91	S.: 1	S.2	S.24	S.20	14. 1	t t r
Db8%l	: 491	106.4y	94: S.SS	91 2.01	91: .41		t t r
Aplr cbe	1 y91				1S1		E
Aplr cbe	1 y92				1S2		E
A%w8bbe	2S: 91	2S6.6u	2S: .10	1y0.y:	2S2. y	2.10	t t r
A%w8bbe	2S 91	21: .62	21S.1	211.yS	211.uy	S.u2	t t r
AcC	11u91	S.12	S.S:	S.S1	S.S	1Su.y	t t r
AcTwCcbe	4091	S.Su	S.S	S.S4	S.S	: y.02	t t r
UlwCcbe	2: u91	S.S1	S.S1	S.S1	S.S1	: .SS	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r pIJa	LB1264S0	n t pIwT5IJa	swI Pw8
LwrJDwe t 8pJ8&JaJ	3- 7 S0	3C1 TIbe CpTJmwe pJa	Nu
- 8pCTJDwe t 8pJ8&JaJ	3- 7 S0	&c8bT5CJFwdT5IJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

NwIwe pTpI	MwI I	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
7wCwodbe	192	y6.4y	y0.1:	y0.6	y0.Sy	S.6S	t t r
YTTpIr dbe	10291						dt I
YTTpIr dbe	10292						dt I
YTTpIr dbe	10691						dt I
YTTpIr dbe	10692						dt I
YTTrdbe	uy91				yu		E
YTTrdbe	uy92				1S2		E
ZdCd	6692	1yS. 2	1uy.y	1u6.6S	1uy.S2	1.12	t t r
Zdcd5Cdbe	yS91	S.S2	S.S2	S.S1	S.S2	41.1:	t t r
Zdcd5Cdbe	y191	S.Su	S.Su	S.S0	S.S0	.S2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t 8p9&9J9	3- BS07	3C1 Tbe CpT9mwe p9J	Nu
- 8pCT9Dwe t 8p9&9J9	3- BS07	&8bT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l J10J1a	&wTwUd8p9mwe p9J	S16- - B. Fo

Nwlwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
q8be cCbe	20:2	SF22	SF56	:SF16	SF54	40aFua	t t r
qCTe 5Ch	121:1	SF12	SF11	SF16	SF1	21F06	t t r
qll pCcd	07:2	SF5u	SF56	SF5	SF57	40Fau	t t r
Bwlcbe	1 7:1	SF51	SF5	SF5	SF52	66F67	t t r
Bwlcbe	1 0:1	SF52	SF51	SF5	SF52	77F7S	t t r
Bplh8&be	a:1	SF5	SF5	SF52	SF5	1aFu	t t r
Bdc e bT%	2Sa:1				1S2		E
Bdc e bT%	2Sa:2				1SS		E
Bl5e cCp	u1:1						dt l
- woe cbe	1Su:1	:SF51	SF1u	SF11	SF5a	1S4F0u	t t r
- woe cbe	1S6:1	:SF66	:7F42	: F5S	: F5		t t r
- woe cbe	111:1	SF52	:SF57	:SF51	:SF51		t t r
- w8lcbe	4 :1	:2Fa2	:SF S	:2Fa7	:2F56		t t r
- w8lcbe	44:1	1 F1a	17F0a	14Fa7	14F64	aF5a	t t r
- wlr 5C	12:1						dt l
- wlr 5C	12:2						dt l
- %5lcCp	7:1						dt l
- %5lcCp	7:2						dt l
- %5e cbe	72:2	:SF51	:SF52	:SF51	:SF52		t t r
- 5r w8T	7a:2	SF52	SF5S	SF52	SF51	6uF1S	t t r
- 5t t pl	6 :2	SF5u	SF56	SF50	SF50	14F47	t t r
&hl t l5l cbe	176:1						dt l
&hl t l5l cbe	176:2						dt l
. lr cbe	164:1						dt l
. lr cbe	164:2						dt l
Gwo58&Ccbe	16S:1						dt l
Gwo58&Ccbe	16S:2						dt l
H58e cbe	167:1				1SS		E
H58e cbe	167:2				1SS		E
3Ccbe	117:1				aa		E
3Ccbe	117:2				1SS		E
35C	74:2	1F61	1F2	1F00	1F7	1uF2	t t r
35C	76:2	SF74	SF u	SF 0	SF4	21F07	t t r
35C	70:2	:1F56	:SF60	:SF71	:SF04		t t r
KIht T5C	u :1						dt l
Lpwo	2S6:1	SF50	SF57	SF50	SF56	10F0	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l Jl0Jla	&wTwUdp9mwe p9J	S16- - B. Fo

NwIwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
Lpwo	2S0:1	SF5S7	SF5S4	SF5S7	SF5S7	17F6u	t t r
Lpwo	2Su:1	SF5S0	SF5S0	SF5S7	SF5S6	10Fu1	t t r
LdT%dbe	6:1				a		E
y wMCpl dbe	24:2	SF17	SF 1	SF u	SF2u	4SFu6	t t r
y wCMwCpl p	77:2	SF5S	SF5S1	SF5S2	SF5S1	12 F21	t t r
y 58hr opCbe	a4:1	SF5S7	SF5	SF5S1	SF5	61Fu	t t r
y 58hr opCbe	a7:1	SF5S2	SF5S	SF5S	SF5S1	16aF 6	t t r
y 58hr opCbe	a6:1	SF5S2	SF5S2	SF5S2	SF5S2	uF2S	t t r
y 58hr opCbe	a0:1	SF5S2	SF5S	SF5S2	SF5S1	117Fu1	t t r
y 58hr opCbe	au:1	SF5S1	SF5S1	SF5S1	SF5S1	44F60	t t r
mp5ohe dbe	17S:1						dt l
mp5ohe dbe	17S:2						dt l
mdkp8	6S:2	SF5S2	SF5S2	:SF5S1	SF5S1	17SFa7	t t r
N%5l t %5lbl	1:2	:21Fau	26F0	:2SF60	:7F 1		t t r
N5TWl dbe	a:2	uF66	4Fu	6FaS	6FuS	2uF2	t t r
v %5odbe	1S :1				1S1		E
v %5odbe	1S :2				aa		E
DdwCodbe	47:1				aa		E
DdwCodbe	47:2				a0		E
Dp&pCdbe	u2:1	:SF60	SF5S1	:SF 6	:SF 4		t t r
Dp&pCdbe	00:2	SF04	:SF u	:SF u	:SF5S1		t t r
Dp&pCdbe	0u:2	SF16	SFu2	SF62	SF7	64FS2	t t r
Dc&d5C	2u:1	SF5S1	SF5S4	:SF5S0	:SF5S1		t t r
Dc&gpl	1S0:1	SF5S2	SF5S4	SF5S4	SF5	27F67	t t r
Dc&gpl	1Sa:1	SF5S4	SF5S2	SF5S4	SF5	7Fu4	t t r
D5odbe	2 :2	24F S	21F4	22F60	22FuS	6F 2	t t r
DTT5CTbe	u6:1	SF5S7	SF5Su	:SF5S1	SF5S4	1S0F10	t t r
DTT5CTbe	uu:1	SF5S7	SF5S1	SF5S1	SF5S2	124Faa	t t r
Db&bl	4:1	:4uuF0	:1a1F62	:26 Fa7	: 14F00		t t r
Aplr dbe	17a:1				1SS		E
Aplr dbe	17a:2				1SS		E
A%w&bbe	2S :1	SF5a	SF5S0	SF5u	SF5u	16F7	t t r
A%w&bbe	2S7:1	SF5u	SF5u	SF5u	SF5u	FaS	t t r
AdC	11u:1	:SF5	:SF5	SF5S	:SF5S2		t t r
AdTWdbe	40:1	:SF1S	:SF5	SF5S	:SF5S4		t t r
RIwCdbe	2 u:1	SF5S	SF5S	SF5S	SF5S	26aF 2	t t r

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129I J10J1a	&wTwUc&p9mwe p9J	S16- - B. Fo

NwIwe pTpI	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
VwCwodbe	71:2	SF5	:SF51	SF5S	SF51	S0Fu4	t t r
YTTpIr dbe	102:1						dt l
YTTpIr dbe	102:2						dt l
YTTpIr dbe	106:1						dt l
YTTpIr dbe	106:2						dt l
YTTrdbe	ua:1				aa		E
YTTrdbe	ua:2				1SS		E
ZdCd	66:2	SF57	SF50	SF27	SF12	a1F64	t t r
Zdcd5Cdbe	aS:1	SF5S	SF51	SF5S	SF51	01Fu1	t t r
Zdcd5Cdbe	a1:1	:SF52	:SF52	:SF51	:SF52		t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aaa	3-7 S0:	35PTDer 5lTabrlas	um
-N5TA7lrtNla&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M24SCm4	Mm16MCm0	Mm21:C49	M02SmC01	1C0:	ttp
5Tcn5y	121J1	1C4:	1C90	1C24	1C9:	0CC2	ttp
DPl5cq	0:J2	SCm	SC69	SCm	SC6S	:CS6	ttp
BlDcer	19:J1	1C4m	1C9:	1C4S	1C41	4C6	ttp
BlDcer	190J1	1C42	1C9S	1C94	1C96	4C41	ttp
BlDyNder	MJ1	SC9S	SC92	SC2m	SC9S	6C40	ttp
BcPreTn	2SMJ1				M9		%
BcPreTn	2SMJ2				M4		%
BDnrc5l	m1J1						qtP
-lOrcer	1SmJ1	10C10	14CC6	14Cm4	1:CM	mCC6	ttp
-lOrcer	1S6J1	J1C4S	J1Cmm	J:CS9	J2CC0		ttp
-lOrcer	111J1	SC6	SC6M	SC4M	SCm	1mC2M	ttp
-lNqcer	49J1	M2m4MC6S	M9m4MC69	M92:C46	M4SSmC29	1C92	ttp
-lNqcer	44J1	M2MC06CM1	M1M9CS9	M2mMmC20	M26SMC4S	SC62	ttp
-lDpn5	12J1						qtP
-lDpn5	12J2						qtP
-hNDc5l	9:J1						qtP
-hNDc5l	9:J2						qtP
-hDnrcer	:2J2	1MC4S	1MC19	1MCCS	1MC41	1C4m	ttp
-npl NT	:MJ2	1C2S	1C22	1C1m	1C2S	1C66	ttp
-nttlD	69J2	0C24	0C4S	0C12	0C2:	1CM6	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GlOnNscer	16SJ1						qtP
GlOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				Mm		%
35Ocer	11:J1				M2		%
35Ocer	11:J2				M9		%
3Dn5	:4J2	1SSM04C10	MMSm4C94	MMS21CS0	MM6M9C1M	1C11	ttp
3Dn5	:6J2	MmM2mC64	1SS2MSCCm	Mm6m2CS9	MM9SSC4M	SCm0	ttp
3Dn5	:0J2	1S1264C42	1S9SS9C9m	1S10:SCMS	1S2SS6C29	SCmm	ttp
KDytTn5	m9J1						qtP
LlIO	2S6J1	4C9:	4C61	4Cm0	4C61	:C64	ttp

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 S0:	35PTDer 5lTabl r las	um
-Nl5Ta7lrtNla8&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcr la qdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablr las	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LllO	2S0J1	4C14	4C24	4C2S	4C1M	1C22	ttp
LllO	2SmJ1	4C29	4C9M	4CCS	4C90	9CS4	ttp
LdThcer	6J1				mm		%
glv5lPcer	24J2	M4020CM9	M62S2C62	M S::C9M	M 92mC6:	SC01	ttp
gl5vl5lPl	::J2	0C9m	0C61	0C62	0CC9	1C01	ttp
gnNypCl5er	M4J1	1466C9S	140mCM2	14MSC10	140mC6M	SC09	ttp
gnNypCl5er	M J1	10M4CCM	101MCCM	10MCCC9	100SCCS	2CCS	ttp
gnNypCl5er	M6J1	1061CCM	10S2CMm	10:4CM9	109MCm4	1Cm4	ttp
gnNypCl5er	M0J1	10mmC62	10:1CC1	100mCm	1002CC0	1CSm	ttp
gnNypCl5er	MmJ1	1mSMCM1	1069C6M	10MMC9m	10MSCCM	1C9:	ttp
blnOyr cer	1:SJ1						qtP
blnOyr cer	1:SJ2						qtP
bcqklN	6SJ2	:CM6	:Cm1	6CSm	:CM	2C2:	ttp
uhnPthnDeP	91J2	M0M6SCCm	MMSS2C69	M00:4CCS	Mm29MCCS	SC6m	ttp
unTPPcer	9MJ2	M 0M9C96	M4m26C9:	M611mCm	M:0MCC2	SCCS	ttp
UhnOcer	1S9J1				M1		%
UhnOcer	1S9J2				M9		%
7ql5Ocer	4:J1				M2		%
7ql5Ocer	4:J2				M1		%
7lNl5cer	m2J1	JSCS6	JSC24	JSCSM	JSC19		ttp
7lNl5cer	00J2	JSC9m	JSC9m	JSC9m	JSC9m		ttp
7lNl5cer	0mJ2	JSC9m	JSC61	SC10	JSC2m		ttp
7dqn5	2mJ1	2C92	2C10	2C2S	2C29	9C0:	ttp
7dNlD	1S0J1	SCS2	SCS2	SCS9	SCS2	10CC0	ttp
7dNlD	1SMJ1	SCS2	SCS4	SCS2	SCS2	41CS0	ttp
7nOcer	29J2	1S260MC6:	1S2141C4M	1S1006C6:	1S21MMC26	SC44	ttp
7TDn5Tcer	m6J1	91CM1	9SCmS	91CM9	91C:	2CS:	ttp
7TDn5Tcer	mmJ1	92C60	91C4m	91C2	91CmM	2C11	ttp
7eNeD	94J1	04::C4M	04S61C4:	04MS:C42	04:S6C4:	SC0	ttp
AlDpcer	1:MJ1				M6		%
AlDpcer	1:MJ2				Mm		%
AhlNter	2S9J1	SC24	SC24	SC1M	SC22	12CS1	ttp
AhlNter	2S:J1	SC1m	SC2:	SC2S	SC21	10C90	ttp
Ac5	11mJ1	SC94	SC29	SC41	SC99	2mC4M	ttp
AcT5cer	40J1	1MS6C2:	1M62C66	1M62C24	1M49CC1	1C60	ttp
FD5cer	29mJ1	SCS9	SCS2	SCS9	SCS9	19C91	ttp

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDTnDas	wlP8lN
LIpa7lrtNa&aa	3-7 S0:	35PTDer 5lTabIrlas	um
-Nt5Ta7lrtNa&aa	3-7 S0:	&dNTn5alqTnDas	1
&lTiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	SC24	SC1:	SC1m	SC1M	2:CS0	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M9		%
YTDcer	mMJ2				M4		%
Zc5q	66J2	1SC4m	1SCM2	1SCS1	1SC40	4C96	ttp
ZcDqn5cer	M6J1	SCS2	SCS1	SCS9	SCS2	09C91	ttp
ZcDqn5cer	M1J1	SCS4	SCS2	SCS9	SCS9	26CGM	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otIDTnDas	wIP8IN
LIpa7IrtNa&aa	3-7 BS0:	5PTDer 5lTabIrIas	um
-N5TA7IrtNa&aa	3-7 BS0:	&dNTn5aIqTnDas	1
&ITaiaAcrIaqdedDOas	2S29JS0J12a19s29s19	&IT.dNabIrIas	S1m3-7BCC

ulDrITD	gIPP	-n5UIt1	-n5UIt2	-n5UIt9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M644M90	M10mCS0	M4120C4M	M2:1C6:	1C22	ttp
5Tcn5y	121J1	2SC9:	1M96	2SC24	1MCMm	2C01	ttp
DPI5cq	0:J2	21CS0	2SCCM	2SCCM	2SC0m	SC00	ttp
BIDcer	19:J1	1MCM	1MCC6	2SC1:	1MCM	SCMm	ttp
BIDcer	190J1	21CS9	2SC1M	1MC09	2SC9:	9CS9	ttp
BIDyNer	MJ1	1MC6	1MC12	1MCCM	1MC9	2CS1	ttp
BcPreTn	2SMJ1				M4		%
BcPreTn	2SMJ2				M6		%
BDnr 5I	m1J1						qtP
-IOrcer	1SmJ1	9SC6m	2MC69	9SC91	9SC21	1C06	ttp
-IOrcer	1S6J1	12C12	1SC04	12CS1	11C66	6CSm	ttp
-IOrcer	111J1	2SC1S	1mCM4	1MCM	1MC4	2CM0	ttp
-INqcer	49J1	M0024C0S	M9S42C49	M9S2SC09	M4:M6CS2	2C06	ttp
-INqcer	44J1	M40:4C6m	M6mMCC10	M99:0C9m	M9SS9CSm	2C1S	ttp
-IDpn5	12J1						qtP
-IDpn5	12J2						qtP
-hNDc5I	9:J1						qtP
-hNDc5I	9:J2						qtP
-hDnrcer	:2J2	9mC1m	90C04	90CC0	90CM9	SC0	ttp
-npINT	:MJ2	2SC24	2SC9:	1MC6m	2SCSM	1CCM	ttp
-nttID	69J2	26C1S	2:C0S	2:C9m	2:CC6	1C4S	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GIOnNscer	16SJ1						qtP
GIOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				1SS		%
5Ocer	11:J1				M2		%
5Ocer	11:J2				M		%
3Dn5	:4J2	1SS261C06	MM69SC91	1SS41MCC2	1SS1S9CM6	SC42	ttp
3Dn5	:6J2	1SS2m2C46	1SS40MC19	1SS62:CC:	1SS462C44	SC10	ttp
3Dn5	:0J2	1SS4m6C29	1SS261CC0	MM MC9M	1SS11:C19	SC46	ttp
KDytTn5	m9J1						qtP
LIIO	2S6J1	26CCM	24CCM	2:C26	2:C6:	9C0M	ttp

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aaa	3-7 BS0:	35PTDer 5lTabrlas	um
-Nt5Ta7lrtNla&aaa	3-7 BS0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s29s19	&lT.dNablrlas	S1m3-7BCC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LlIO	2S0J1	2:0Mm	24G46	24Gm1	2:GSm	9Clm	ttp
LlIO	2SmJ1	2:0M4	24G46	2:GSM	2:C16	20M	ttp
LdTher	6J1				m0		%
glv5lPer	24J2	M4049G91	M966C6	M4m6Gm4	M4MmmGMS	SG9:	ttp
gl5vl5lPl	::J2	26C1	26C19	2:G20	2:0M0	2G4:	ttp
gnNypCl5er	M4J1	14M0G9	1:1MG24	1:S1G92	1:S6C16	SG06	ttp
gnNypCl5er	MJ1	10m6G24	1000Clm	1062G2M	100:G24	SG6m	ttp
gnNypCl5er	M6J1	100SG66	1096Gm0	10mmGM9	106:G4M	1CS	ttp
gnNypCl5er	M0J1	10m4G6S	1001GMm	1mS0C1:	10m0GM1	1GSS	ttp
gnNypCl5er	MmJ1	1m11GS6	1040G69	1m12Gm4	10MSC1	2GS0	ttp
blnOyrer	1:SJ1						qtP
blnOyrer	1:SJ2						qtP
bcqklN	6SJ2	240GMM	2:G2m	2:GS:	2:C1	SG6S	ttp
uhnPthnDeP	91J2	Mm24GmS	M0020G12	M14mG49	M0199G4:	1Gm2	ttp
unTPPer	9MJ2	Mm0M4Gm9	M9SSSGm1	M6S:1G0:	MM4MG19	9GS2	ttp
UhnOer	1S9J1				MS		%
UhnOer	1S9J2				M9		%
7ql5Oer	4:J1				M4		%
7ql5Oer	4:J2				M9		%
7lN5er	m2J1	1MG96	10G62	10G0:	1mG24	:G9S	ttp
7lN5er	00J2	16G2M	21G9M	2SC1	1MG4S	14GS6	ttp
7lN5er	0mJ2	21G4M	1MGS:	2SGS6	2SG2S	6GS0	ttp
7dqn5	2mJ1	2CS	2GSm	2G29	2G20	MG9m	ttp
7dRD	1S0J1	1MGS1	10G66	10Gmm	1mGlm	90Mm	ttp
7dRD	1SMJ1	1mGm4	10G09	1mG99	1mG9S	9GS4	ttp
7nOer	29J2	1SSmS:Gm9	1SS9SmG09	1SS6:9C16	1SS:mMG24	SG2:	ttp
7TDn5Ter	m6J1	99G22	910MS	99G2S	92G00	2G91	ttp
7TDn5Ter	mmJ1	92G24	91G6M	92G06	92G29	1G60	ttp
7eNeD	94J1	0MS44G2m	029mmGDS	02:1SG41	04640GmS	:GlS	ttp
AlDper	1:MJ1				M0		%
AlDper	1:MJ2				Mm		%
AhlNter	2S9J1	21G49	2SG1:	2SGm	2SG02	9G1:	ttp
AhlNter	2S:J1	21G90	1MGM4	2SC4	2SG62	9G4M	ttp
Ac5	11mJ1	SG91	SG99	SG92	SG92	2G2:	ttp
AcT5er	40J1	2S16G2m	1MSG21	2SS9G16	1MmMGm	1G06	ttp
FD5er	29mJ1	SGS9	SGS2	SGS9	SGS9	mGS6	ttp

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDThDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 BS0:	35PTDer 5lTabl r las	um
-Nl5TA7lrtNla8&aaa	3-7 BS0:	&dNTn5alqThDas	1
&lTiaAcrla qdedDOas	2S29JS0J12a19s29s19	&lT.dNlabl r las	S1m3-7BCC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvCa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	1MCDS	1MC26	1MCDm	1MCCm	1C4:	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M4		%
YTDcer	mMJ2				M0		%
Zc5q	66J2	2MC0	2MC24	2mCD4	2MC1m	1C49	ttp
ZcDqn5cer	M6J1	SCS2	SCS9	SCS9	SCS9	26Cm9	ttp
ZcDqn5cer	M1J1	SCS9	SCSS	SCSS	SCS1	146Cm	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb cOcmb	20 2	J21J. F46	JSJ11F74	JS612F2S	J1S. 4F77	1FN1	DDe
q CTb 5Ch	121 1	J7NF41	4. 0FJ4	4. 6F. .	J1SF. N	4F6J	DDe
q pwr Ccd	0J 2	J27F0J	J20F0J	J1JF17	J22F21	1F24	DDe
Bspcmb	17J 1	20JSFNJ	2JN0FSJ	2J71F4N	2627F17	4F7J	DDe
Bspcmb	170 1	26. SF10	2J17FJ4	2JSJF41	2J6. F01	4FS6	DDe
Br phPmb	. 1	JSJF4J	4NJF66	4NNF77	4. 7F1J	2F1N	DDe
Bcwb mT%	2S. 1				. S		E
Bcwb mT%	2S. 2				. 1		E
Bp5b cOr	N1 1						dDw
3 sob cmb	1SN 1	JJ1F1J	J17F. 7	J16FN0	J20F72	7F. 2	DDe
3 sob cmb	1S6 1	JJSF6S	JS6F4J	JS2F77	J1. F0.	JF1J	DDe
3 sob cmb	111 1	JJ7FS2	J1JF1J	J1NFNS	J2NF. .	7F. J	DDe
3 sPdcmb	47 1	26. 4S7F27	2761. 2F41	24466. F67	2JSSNNF42	6F. S	DDe
3 sPdcmb	44 1	2612J0F27	2741. SFNS	27. 0SSF7N	24JS4. F40	JFN4	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %F5pcOr	7J 1						dDw
3 %F5pcOr	7J 2						dDw
3 %p5b cmb	J2 2	4. 0F20	4NNF62	4NJF4S	4. SF47	1F2J	DDe
3 5esFT	J. 2	4NNF44	4. 2F0.	40. F16	4N6FNS	1F47	DDe
3 5DDr p	67 2	J7S4FNJ	J24SF2N	JS6NF77	J2S4F4.	2F7J	DDe
&hwDp5wcmb	1J6 1						dDw
&hwDp5wcmb	1J6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PdOcmb	16S 1						dDw
Hso5PdOcmb	16S 2						dDw
K5Pb cmb	16J 1				. 6		E
K5Pb cmb	16J 2				. N		E
tCocmb	11J 1				. S		E
tCocmb	11J 2				. 1		E
tp5C	J4 2	12667SF7S	120. N4F1S	120S6JFN2	120226F04	SFJ4	DDe
tp5C	J6 2	12N764FNS	120161FJ2	126N16F04	120440F6N	SF64	DDe
tp5C	J0 2	126447F01	12. 1. 1F06	12J0SJF16	120117FJ4	1F4J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	20SNFN7	2JSJF46	2JSSF76	2J01FJJ	4F62	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8spsb r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	20JSF26	2J70F77	24N1F0S	2JN. F06	JF40	DDe
Lr so	2SN 1	2011F44	2J42F66	2J20FN.	2J. 4FSS	7F. 7	DDe
LdP%omb	6 1				N4		E
y sMOr womb	24 2	2J0N14F26	2JS021FN2	2J4267FJ4	2J4266FJ4	1F7.	DDe
y sOMsOr wr	JJ 2	J2S0F1S	JS26F0S	JSNNF. S	J1S0FJ0	1F0.	DDe
y 5Pheor Omb	. 4 1	J47. F06	JS. 6F0N	4. S6FJ6	J140F0S	JF2J	DDe
y 5Pheor Omb	. J 1	J72NF41	J177FS6	4. SNFJ6	J127F74	4F1S	DDe
y 5Pheor Omb	. 6 1	J2N6F64	J111F. 0	4. . 0F7.	J172FSS	2FN4	DDe
y 5Pheor Omb	. 0 1	J4S2F11	JS. . F7J	JSSJFJ7	J16. FSS	4FS1	DDe
y 5Pheor Omb	. N 1	J721FJS	J171F67	4. NNF1.	J140F11	7F2J	DDe
ur 5ohb omb	1JS 1						dDw
ur 5ohb omb	1JS 2						dDw
udfr P	6S 2	JS0FJ2	JSSF6S	4. 7F02	JSSF61	1F7N	DDe
8 %5wD%5pmw	71 2	1SS. 1F2.	1S2. . FSS	1S2N2FS6	1S224F12	1F17	DDe
8 5Tswwomb	7. 2	1261. . FJS	126276F61	126JS1F1.	126712F44	SF17	DDe
v %5oomb	1S7 1				NN		E
v %5oomb	1S7 2				N.		E
I dsOomb	4J 1				. 2		E
I dsOomb	4J 2				. 1		E
I r POomb	N2 1	J24FSS	JS6FS7	4NJF. 0	JSJF77	7F00	DDe
I r POomb	00 2	4JJF74	J2SFJ.	JS1FJ7	4. 2F4N	6FN1	DDe
I r POomb	0N 2	J2JFJ2	J11FN4	J74F0.	J24FSJ	2F2S	DDe
I dd5C	2N 1	J6JFS.	4. 0FN1	J10FSN	J26F66	6FJN	DDe
I dgr p	1S0 1	J72F7.	JS2F77	JS1F6.	J12F14	7F47	DDe
I dgr p	1S. 1	J7NFJJ	4. 1FJ.	JS7FN6	J11F77	4F06	DDe
I 5oomb	27 2	2JN4S6F1.	2J2. 61FJ6	2J262JF6J	2J4664F40	1F20	DDe
I Tp5CTomb	N6 1	17JS. F6J	126S4F40	12147F7S	120J2F40	JF4J	DDe
I Tp5CTomb	NN 1	17217F4N	12404F17	12S7SF26	12J02F62	4F0J	DDe
I mPVmp	74 1	1117SF14	NN44F42	. J44FJS	. N7. F6.	11F. S	DDe
Ar peomb	1J. 1				. 6		E
Ar peomb	1J. 2				. 6		E
A%sPbmb	2S7 1	JJSF14	J12F27	JS7F60	J22FS1	4F04	DDe
A%sPbmb	2SJ 1	J47F44	J12F2S	J14F1N	J27F20	7F74	DDe
AdC	11N 1	J71FJ0	4. JF07	JS1F10	JS. F4.	7F0.	DDe
AdSOomb	40 1	J4S4FN.	4N42F70	JS01F44	J1S6F24	JFJ4	DDe
RpsOomb	27N 1	J2. F7.	JS6F74	J1SF4.	J1JF41	2F7N	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	J1 2	J20FN7	J16FS.	J2SF41	J21F44	1F14	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N. 1				. 7		E
YTTpomb	N. 2				. 4		E
ZdCd	66 2	JS61F01	4. . JF. 2	4. 40FSJ	JSS1FJ6	1F1J	DDe
Zqpd5Comb	. S 1	J71F4N	JSSF. J	4N7F0S	JSJF7N	4F0.	DDe
Zqpd5Comb	. 1 1	J10F02	4. JF02	4N2F02	4. NF02	7FJJ	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	2072	9.y0	2.y4	1.49	4.y-	96.99	I I b
c 5&mn5h	1217 1	S.19	S.21	S.22	S.21	y.y1	I I b
c rse5Aq	0y72	S.S8	S.S2	S.S4	S.Sy	y0.y2	I I b
BarAum	1- y71	S.2S	S.18	S.2S	S.2S	y.2y	I I b
BarAum	1- 071	S.1y	S.16	S.21	S.10	18.66	I I b
BerhllAum	971	S.S0	S.S0	S.S6	S.S0	y.- 8	I I b
BAsmu&%	2S971				1S1		E
BAsmu&%	2S972				98		E
BrnmA5e	8171						ql s
3 aOmAum	1S871	S.20	S.S6	S.S8	S.14	81.- 8	I I b
3 aOmAum	1S671	74.00	72.66	72.y1	7- .- 1		I I b
3 aOmAum	1117 1	S.Sy	S.S2	S.S8	S.Sy	61.69	I I b
3 alqAum	4- 71	22.24	2S.41	19.46	2S.01	6.82	I I b
3 alqAum	4471	86.98	6y.48	y6.6S	69.68	22.41	I I b
3 arbn5	1271						ql s
3 arbn5	1272						ql s
3 %nrA5e	- y71						ql s
3 %nrA5e	- y72						ql s
3 %nmAum	y272	S.S4	S.S-	7S.S-	S.S1	29- .y2	I I b
3 nbal&	y972	S.Sy	S.SS	S.S1	S.S2	142.61	I I b
3 nI I er	6- 72	S.92	S.yS	S.4S	S.6S	4y.60	I I b
t hsI rnsAum	1y671						ql s
t hsI rnsAum	1y672						ql s
CrbAum	1647 1						ql s
CrbAum	1647 2						ql s
GaOnlA5Aum	16S71						ql s
GaOnlA5Aum	16S72						ql s
HnlmAum	16y71				1SS		E
HnlmAum	16y72				1S1		E
D5OAum	11y71				1SS		E
D5OAum	11y72				1SS		E
Dn5	y472	1- .SS	y.20	6.18	8.1y	y1.84	I I b
Dn5	y672	12.88	- .- S	- .SS	6.4S	80.86	I I b
Dn5	y072	11.- -	y.2-	6.- S	0.62	42.09	I I b
Krhl &n5	8- 71						ql s
LeaO	2S671	S.4y	S.- 4	S.26	S.- y	20.9y	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
LeaO	2S071	S.- -	S.- 4	S.29	S.- 2	8.26	I I b
LeaO	2S871	S.- 6	S.- 1	S.28	S.- 2	12.26	I I b
LA%Aum	671				9S		E
Mag5esAum	2472	- 2.06	4.- 9	y.20	14.14	114.S9	I I b
Ma5ga5ese	yy72	S.- y	S.11	S.1y	S.2S	6- .96	I I b
MnlhbOe5um	9471	S.88	S.66	S.y6	S.0S	2- .62	I I b
MnlhbOe5um	9y71	S.86	S.04	S.68	S.06	12.S0	I I b
MnlhbOe5um	9671	S.9-	S.6y	S.60	S.0y	2S.46	I I b
MnlhbOe5um	9071	S.89	S.6-	S.69	S.04	18.01	I I b
MnlhbOe5um	9871	S.8S	S.60	S.82	S.06	1S.92	I I b
NenOhmAum	1yS71						ql s
NenOhmAum	1yS72						ql s
NAqkel	6S72	S.S4	S.S4	S.S4	S.S4	6.S8	I I b
P%nsI %nrus	- 172	7- 8.18	714.68	7- S.y9	720.81		I I b
Pn&assAum	- 972	66.84	yS.42	y1.68	y6.- 2	16.2-	I I b
R%nOAum	1S- 71				99		E
R%nOAum	1S- 72				1S1		E
pqa5OAum	4y71				90		E
pqa5OAum	4y72				94		E
pele5Aum	8271	S.yS	7S.- 9	S.- -	S.1y	- 18.01	I I b
pele5Aum	0072	7S.- 8	7S.- 8	7S.- 8	7S.- 8		I I b
pele5Aum	0872	7S.- 2	7S.yy	S.S9	7S.26		I I b
pAAqn5	2871	S.66	S.10	7S.S2	S.20	1- S.90	I I b
pAver	1S071	S.S2	S.S2	S.S-	S.S2	2S.yS	I I b
pAver	1S971	S.S-	S.S2	S.S2	S.S2	4.26	I I b
pnOAum	2- 72	142.84	1S0.98	1Sy.SS	118.61	10.04	I I b
p&n5&Aum	8671	1.26	S.0-	S.06	S.92	- 2.6y	I I b
p&n5&Aum	8871	S.86	S.02	S.08	S.09	8.0-	I I b
pulfur	- 471	9- y.8-	7- S0.y0	7814.99	762.2y		I I b
i erbAum	1y971				1SS		E
i erbAum	1y972				98		E
i %allAum	2S- 71	S.26	S.21	S.2S	S.22	1- .9-	I I b
i %allAum	2Sy71	S.2-	S.22	S.2S	S.22	0.y1	I I b
i A5	11871	S.S4	S.SS	S.Sy	S.S-	0y.20	I I b
i A&a5Aum	4071	S.4-	S.49	S.- y	S.42	16.94	I I b
Ura5Aum	2- 871	S.S4	S.S-	S.S-	S.S-	9.86	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D) :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D) :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	y172	S.S-	S.S2	S.SS	S.S2	1S4.20	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				98		E
Y&&Aum	8972				99		E
ZA5q	6672	S.yy	S.19	S.S8	S.20	9S.- 2	l l b
ZAqn5Aum	9S71	S.S4	S.S-	S.Sy	S.S4	- 6.y1	l l b
ZAqn5Aum	9171	S.S-	S.S1	S.Sy	S.S-	0- .y8	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Aluminium	2572	6.48	3.61	9.- 1	3.99	24.4-	ppb
Antimony	12171	P.11	P.12	P.P8	P.11	15.31	ppb
Arsenic	5372	P.P9	P.P6	P.P3	P.P4	99.45	ppb
Barium	19371	P.14	P.13	P.16	P.13	4.2-	ppb
Barium	19571	P.18	P.21	P.14	P.18	21.8-	ppb
Beryllium	- 71	P.P8	P.P6	P.P4	P.P6	9P.24	ppb
Bismuth	2P- 71				- -		%
Bismuth	2P- 72				- 5		%
Bromine	8171						cps
Cadmium	1P871	7P.P1	7P.P1	7P.P3	7P.P9		ppb
Cadmium	1P671	79.81	72.5-	74.13	79.38		ppb
Cadmium	11171	P.P1	P.P5	P.P1	P.P9	11P.29	ppb
Calcium	4971	23.84	24.44	16.1-	22.16	29.34	ppb
Calcium	4471	62.65	63.3-	34.25	6P.84	- .63	ppb
Carbon	1271						cps
Carbon	1272						cps
Chlorine	9371						cps
Chlorine	9372						cps
Chromium	3272	P.P-	P.P4	P.P4	P.P6	44.19	ppb
Cobalt	3- 72	P.P2	P.P2	P.P2	P.P2	- .28	ppb
Copper	6972	P.4-	P.4P	P.49	P.44	1P.24	ppb
Dysprosium	13671						cps
Dysprosium	13672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16P71						cps
Gadolinium	16P72						cps
Holmium	16371				1PP		%
Holmium	16372				- 5		%
Indium	11371				- 8		%
Indium	11372				- 6		%
Iron	3472	- .- 1	1P.- 9	4.86	8.35	95.- 6	ppb
Iron	3672	- .P4	- .3-	8.58	- .14	4.39	ppb
Iron	3572	5.8-	- .P6	3.- 3	5.64	2P.36	ppb
Krypton	8971						cps
Lead	2P671	P.9P	P.26	P.2P	P.23	18.89	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Lead	2P571	P.94	P.28	P.22	P.28	22.6-	ppb
Lead	2P871	P.9P	P.26	P.2P	P.23	1- .26	ppb
Lithium	671				- P		%
Magnesium	2472	19.4P	12.24	5.88	11.15	26.P3	ppb
Manganese	3372	P.21	P.18	P.19	P.15	29.- 6	ppb
Molybdenum	- 471	P.62	P.4-	P.95	P.4-	23.P1	ppb
Molybdenum	- 371	P.69	P.32	P.96	P.3P	26.5P	ppb
Molybdenum	- 671	P.31	P.31	P.94	P.43	21.24	ppb
Molybdenum	- 571	P.61	P.4-	P.45	P.32	14.92	ppb
Molybdenum	- 871	P.4-	P.44	P.42	P.43	8.82	ppb
Neodymium	13P71						cps
Neodymium	13P72						cps
Nickel	6P72	P.P6	P.P9	P.P3	P.P3	28.P5	ppb
0hosphorus	9172	79P.92	24.4-	26.54	6.- 5	469.6P	ppb
0otassium	9- 72	3- .81	44.48	96.48	46.- 2	23.25	ppb
Rhodium	1P971				- 8		%
Rhodium	1P972				- 5		%
Scandium	4371				- 8		%
Scandium	4372				- 4		%
Selenium	8271	P.P9	7P.P8	7P.3P	7P.18		ppb
Selenium	5572	2.P5	7P.98	P.56	P.82	14- .65	ppb
Selenium	5872	P.34	7P.32	P.P-	P.P9	134P.9-	ppb
Silicon	2871	P.12	P.14	P.P1	P.P-	58.- 1	ppb
Silver	1P571	P.P1	P.P2	P.P1	P.P1	48.- 6	ppb
Silver	1P- 71	P.PP	P.P1	P.PP	P.P1	56.56	ppb
Sodium	2972	- 5.25	88.- 3	82.33	8- .3-	8.29	ppb
Strontium	8671	P.83	1.P9	P.32	P.8P	92.81	ppb
Strontium	8871	P.88	P.56	P.62	P.53	15.51	ppb
Sulfur	9471	7255.P8	18.35	79P5.29	7188.38		ppb
Terbium	13- 71				- -		%
Terbium	13- 72				- 8		%
Thallium	2P971	P.15	P.18	P.16	P.15	3.66	ppb
Thallium	2P371	P.1-	P.16	P.19	P.16	16.4P	ppb
Tin	11871	P.P1	P.P1	P.PP	P.P1	115.49	ppb
Titanium	4571	P.63	P.49	P.42	P.3P	23.62	ppb
Uranium	29871	P.P3	P.P9	P.P2	P.P9	42.11	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Vanadium	3172	P.P9	P.P2	P.P4	P.P9	96.13	ppb
Ytterbium	15271						cps
Ytterbium	15272						cps
Ytterbium	15671						cps
Ytterbium	15672						cps
Yttrium	8- 71				1PP		%
Yttrium	8- 72				- 6		%
Zinc	6672	P.98	P.16	P.15	P.24	32.55	ppb
Zirconium	- P71	P.P4	P.P9	P.P1	P.P9	63.62	ppb
Zirconium	- 171	7P.P1	7P.P2	P.P9	P.PP	2P81.49	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpla	LB1264S0	o l r pw8apla	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: S7	t A8m8A5JUwq8apla	1
t w&JTJ Ab r Jc qdmAr Qla	2S279S0912J17a7-a46	t w&WJA8 Juwb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	71FN0	74F 6	72F2S	77FS1	-F14	l l e
c5&b n5h	12191	7F7-	7F24	7F71	7F7S	1F02	l l e
cpl r 5Aq	0-92	1F64	1F 7	1F6	1F0-	NF N	l l e
BwpAmb	17-91	10FSN	1-F62	16FS-	16F2-	4F61	l l e
BwpAmb	17091	16F1-	16F70	16FS2	16F1N	1FS0	l l e
Br ph8Amb	91	1F07	1F61	1F=6	1F67	-F40	l l e
BAb m8%	2S 91						E
BAb m8%	2S 92				1S1		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F67	1F76	1F=6	1F=2	F72	l l e
CwCb Amb	1S691	91F70	SF0-	1F4-	SF2N	-2NF11	l l e
CwCb Amb	11191	1FN2	1F07	1F4	1F6N	1SF1S	l l e
Cw&pAmb	4791	064F 6	07SFN0	041F22	04-F6	2F74	l l e
Cw&pAmb	4491	N10FS6	00-F66	060F4N	0N6F07	7F7N	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	2F 0	7F7N	7F20	7F2S	6F=N	l l e
Cnew&&	- 92	1F=6	1FN1	1F6N	1F6N	0F=	l l e
CnI l r p	6792	7F4	7F0-	7F0-	7F66	4FSN	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8A5Amb	16S91						ql l
GwOn8A5Amb	16S92						ql l
Hn8b Amb	16-91				1SS		E
Hn8b Amb	16-92				1S1		E
D5OAmb	11-91				1SS		E
D5OAmb	11-92				1S1		E
Dpn5	-492	714F7N	761F2N	77NF0S	77NF12	6F 4	l l e
Dpn5	-692	71NF=0	74-F24	77 F2	774F70	4F1	l l e
Dpn5	-092	716F=-	7-7F12	740FS	77NF 2	-F0N	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F=6	1F64	1F6S	1F6S	2F41	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J17a7-a46	t w&wUA8 JJ wb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F62	1F-	1F-0	1F-	1F7	l l e
Lr wO	2SN91	1F67	1F-	1F-0	1F6S	2FS1	l l e
LA&%Amb	691				1		E
y wW5r l Amb	2492	NS1F71	N NF1	N2NF2	N42F6S	-F 7	l l e
y w5Mw5r l r	- - 92	1F6S	1F66	1F6	1F6-	2F60	l l e
y n8neOr 5mb	491	NFN2	NF61	NF	NFNS	2F12	l l e
y n8neOr 5mb	-91	NFS1	0F77	0F00	0F0S	4F-7	l l e
y n8neOr 5mb	691	0F 0	0F- -	0F6N	0F04	2F0-	l l e
y n8neOr 5mb	091	0F4N	0F66	0F-	0F-N	1F22	l l e
y n8neOr 5mb	N91	0F-6	0F4-	0F67	0F- -	1F1	l l e
u r nOhb Amb	1-S91						ql l
u r nOhb Amb	1-S92						ql l
u Aqkr 8	6S92	1F0S	2FS	1FN-	1FNN	1SF-2	l l e
3%nl l %npm	7192	9- -FN7	1-F42	94F0-	91-FS-		l l e
3n&wl l Amb	7 92	0NSFSS	NN6FSS	N-7F06	N7 F2	6F40	l l e
v %nOAmb	1S791						E
v %nOAmb	1S792						E
: qw5OAmb	4-91				0		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F 7	0F47	0F42	0F-	7FNS	l l e
: r 8 5Amb	0092	11FS0	1SF1	6F42	F27	26F00	l l e
: r 8 5Amb	0N92	FN	1SFN2	FN6	1SF1	-F74	l l e
: A8qn5	2N91	1F7-	1FSN	1FS1	1F1-	1-F-4	l l e
: A8gr p	1S091	1F67	1F64	1F62	1F67	SF00	l l e
: A8gr p	1S 91	1F06	1F01	1F67	1F0S	4FS0	l l e
: nOAmb	2792	N-6F42	4-F06	N 7FS0	N NF42	-FSS	l l e
: 8pn5&Amb	N691	1FN7	1F00	1FN7	1FN1	1F 7	l l e
: 8pn5&Amb	NN91	1F04	1F-6	1F66	1F66	-F26	l l e
: m8mp	7491	676F 4	1-SF0S	912SF24	222F40	102F46	l l e
i r peAmb	1- 91				1SS		E
i r peAmb	1- 92						E
i %w8Amb	2S791	1F0S	1F60	1F6S	1F66	7F2S	l l e
i %w8Amb	2S-91	1F00	1F-	1F-4	1F67	0F16	l l e
i A5	11N91	SFS2	SFS1	SFS1	SFS1	41F66	l l e
i A&w5Amb	4091	NF-6	NF-1	NF71	NF46	1F6S	l l e
Rpw5Amb	27N91	1F-1	1F4N	1F4-	1F4N	1F 1	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J17a7-a46	t w&WJA8 Ju wb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	0F 1	NF60	NF40	NF7-	4F06	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				N		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	0F-	NF- -	F1-	NF47	F7-	l l e
ZAqn5Amb	S91	1F-4	1F4	1F-6	1F-7	2F71	l l e
ZAqn5Amb	191	1F6-	1F- -	1F6S	1F6S	2F -	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	- 6US7	- 6U1-	- 7U06	- 7UaJ	SU77	DDe
q5Tb n5%	121 1	SU1a	SU16	SU1a	SU1J	0UaS	DDe
qpl r 5cd	07 2	SU17	SU24	SU21	SU2S	2- U4-	DDe
Bwpcmb	1- 7 1	26US0	27U00	27U2S	27U6J	1U0-	DDe
Bwpcmb	1- 0 1	20U4J	27U6S	27U44	26U10	4UJ4	DDe
Br p%8cmb	a 1	SU11	SU1S	SU1S	SU1S	7UJ0	DDe
Bdb mTE	2Sa 1				a4		G
Bdb mTE	2Sa 2				a6		G
Bpmb d5r	J1 1						dDl
v wob cmb	1SJ 1	SUSS	SU16	SUS1	SUS7	1a1Ua6	DDe
v wob cmb	1S6 1	- U1-	2U74	4U2-	- UJS		DDe
v wob cmb	111 1	SUSS	SUS1	SUS2	SUS1		DDe
v w8dcmb	4- 1	1- 0J4U2S	1- a- - U47	1- JJ4U61	1- J60U42	SU77	DDe
v w8dcmb	44 1	14177U14	14- 4- U42	14Sa- U00	141a0U44	SUa2	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	4U1S	4U24	4U12	4U17	1UJ0	DDe
v new8T	7a 2	SU26	SU20	SU2-	SU26	0UJ1	DDe
v nDDr p	6- 2	SUJ1	SUaa	SUJ0	SUJa	aUJ1	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				a7		G
h n8b cmb	167 2				a6		G
t5ocmb	117 1				a6		G
t5ocmb	117 2				a7		G
tpn5	74 2	- 2JU0a	- 46US2	- - 7UJ7	- - 6UJa	2U70	DDe
tpn5	76 2	- 26U2-	- 4JUJa	- - 6U76	- - 0U2-	- UJ6	DDe
tpn5	70 2	- 44U70	- 7aUS6	- 72US4	- 71UJa	2US6	DDe
Kp%DTn5	J- 1						dDl
Lr wo	2S6 1	SUJJ	SUJ0	SU4S	SUJJ	- U61	DDe

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LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	SUJ J	SU4S	SUJ6	SUJ J	7U40	DDe
Lr wo	2SJ 1	SUJ J	SU4S	SUJ0	SUJ J	- U0J	DDe
LdEomb	6 1				Ja		G
y wW5r l omb	24 2	2J20U46	- S16U2J	2aSaUJa	2a10U01	- U27	DDe
y w5Mw5r l r	77 2	11U66	12U1J	11U0J	11UJ0	2UJ2	DDe
y n8%eor 5mb	a4 1	1UJ1	1U2S	1UJS	1U20	4U0-	DDe
y n8%eor 5mb	a7 1	1U20	1UJ1	1U1a	1U26	7U$a	DDe
y n8%eor 5mb	a6 1	1UJ-	1U2J	1U21	1U20	4U00	DDe
y n8%eor 5mb	a0 1	1U40	1U2a	1UJJ	1UJJ	6U72	DDe
y n8%eor 5mb	aJ 1	1U27	1U21	1U24	1U2-	1U0J	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	1U70	1UJa	1U0-	1U0-	aUJS	DDe
NEnl DEnpm	- 1 2	21U2S	2Ua4	10Ua2	14U$2	6aU4-	DDe
NnTwl omb	- a 2	1672U22	1076UJ1	16J2U$7	16a0U$-	- U10	DDe
CEnoomb	1S- 1				a4		G
CEnoomb	1S- 2				a6		G
l dw5oomb	47 1				a-		G
l dw5oomb	47 2				a2		G
l r 8 5omb	J2 1	SU1S	SU64	SU12	SU14	- S7U$J	DDe
l r 8 5omb	00 2	SUJ J	2U$a	SUJ J	SU44	- 2SU$0	DDe
l r 8 5omb	0J 2	SU74	1U6a	SUJ1	1U$1	7aUJ6	DDe
l 8dn5	2J 1	2S2U64	212U22	2S0U1J	2S0UJ7	2UJ1	DDe
l 8gr p	1S0 1	SU$1	SU$S	SU$1	SU$S	62UJ0	DDe
l 8gr p	1Sa 1	SU$1	SU$1	SU$S	SU$1	4aU2S	DDe
l nomb	2- 2	1S62JUJJ	11107U0-	1S047U26	1SJ4aUa6	2U66	DDe
l Tpn5Tomb	J6 1	66U6S	0SU20	67U60	60U71	- U6S	DDe
l Tpn5Tomb	JJ 1	66U07	60UJ0	66Ua2	60U1J	SUaS	DDe
l m8mp	- 4 1	41J6U2-	- aJ4UaJ	4121U76	4Sa0U7a	2U71	DDe
Ar peomb	17a 1				a7		G
Ar peomb	17a 2				a0		G
AEw8omb	2S- 1	SU12	SU$a	SU11	SU1S	1- Uaa	DDe
AEw8omb	2S7 1	SU$J	SU$0	SU$6	SU$0	1- U7a	DDe
Ad5	11J 1	SUJ1	SU2a	SU1a	SU20	2- UJJ	DDe
AdTw5omb	40 1	SUJ-	1U$7	SUJ6	SUa1	1- U21	DDe
Rpw5omb	2- J 1	SUa7	SUaa	SUa-	SUa7	- U27	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMU:v n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	SU-a	SU71	SU44	SU47	1- U1S	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	Ja 1				a4		G
YTTpcmb	Ja 2				a7		G
Zc5d	66 2	16U24	16Ua0	17U-7	16U1a	7US-	DDe
Zqpdn5cmb	aS 1	SUSa	SU11	SU17	SU12	27U17	DDe
Zqpdn5cmb	a1 1	SUS7	SUSa	SU17	SUSa	74US-	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	4JFJS	4- F77	44F02	47F6h	6FS4	l l b
cn&mon%	121 1	SF12	SF1-	SF12	SF12	0F1-	l l b
crwenAq	07 2	SF7S	SF- 7	SF4S	SF41	1JFh4	l l b
BsrAum	1- 7 1	4- F- 2	46FS1	47F4h	44Fh4	- F1J	l l b
BsrAum	1- 0 1	4- F2S	47F67	44FJ1	44F77	2F0h	l l b
Ber%BAum	h 1	SF14	SF16	SF17	SF17	4F61	l l b
BAumu&E	2Sh 1				1SS		G
BAumu&E	2Sh 2				1S2		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF02	SF16	SF6-	SF7S	6SF16	l l b
RsOmAum	1S6 1	- F20	- F16	- Fh0	- F40		l l b
RsOmAum	111 1	SFS1	SFSS	SFS2	SFS1		l l b
RsRqAum	4- 1	20207F60	20670F4-	2J6J0F42	20J0- F71	2F62	l l b
RsRqAum	44 1	2JhhSF1-	2J111Fh7	2h7- hF42	2JJJSF7S	2F4h	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	1FhJ	1F02	1F02	1FJ1	JF4-	l l b
RobsR&	7h 2	SF74	SF72	SF70	SF74	4F0J	l l b
Rol l er	6- 2	1FS1	SFJ4	1FS2	SFh6	1SF4h	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				1SS		G
y oFmAum	167 2				1S4		G
DrOAum	117 1				hJ		G
DrOAum	117 2				1S1		G
Don	74 2	JhJF16	0h1F42	J16F0h	J- 7F46	6F60	l l b
Don	76 2	JJSFS1	0h1FSS	J- hFSS	J- 6F60	7F- 2	l l b
Don	70 2	JJJF20	J- 6FS7	JJ6F60	J0SF- -	- F41	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF- -	SF- 6	SF- 4	SF- 4	7F66	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	SF- -	SF- 2	SF2h	SF- 2	6FJJ	l l b
LesO	2SJ 1	SF- -	SF- 4	SF- 1	SF- -	4Fh4	l l b
LAEAum	6 1				JJ		G
MsgnewAum	24 2	0- 4hF- -	602SFSh	0S22F10	0S- SF7-	4F4J	l l b
Msngsnewe	77 2	61FJ1	76F- -	7hF04	7hF2h	4F66	l l b
MoP%bOenum	h4 1	7F- 1	7F7J	7F11	7F- -	4F47	l l b
MoP%bOenum	h7 1	6F2S	6F74	6F1-	6F2h	- F4h	l l b
MoP%bOenum	h6 1	6F14	6F2h	6F14	6F1h	1F- 0	l l b
MoP%bOenum	h0 1	6F1J	6F24	6F47	6F2h	2F20	l l b
MoP%bOenum	hJ 1	6FS0	6F- h	6FSJ	6F1J	2FhJ	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ7	SFJJ	SFJ1	SFJ7	4F47	l l b
8EowI Eoruw	- 1 2	- SF1h	JFJ2	JhFS6	22F76	26hF4J	l l b
8o&swwAum	- h 2	2JJSFJ7	27h7F00	206SFJ1	2047FJ1	7F21	l l b
5EoOAum	1S- 1				h6		G
5EoOAum	1S- 2				1S1		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				hh		G
pe?enAum	J2 1	SF27	SF42	SF76	SF41	- 0F16	l l b
pe?enAum	00 2	SF0h	SF- J	1F0J	SF0-	140F01	l l b
pe?enAum	0J 2	SFhh	SFSh	1F1h	SF0S	hJF4h	l l b
pAAqon	2J 1	- 22Fh-	- - SFSJ	- 24F26	- 27F06	1F10	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	21JF4h	l l b
pA?er	1Sh 1	SFS1	SFSS	SFS1	SFS1	1SSFJ0	l l b
poOAum	2- 2	2174- FJS	1h- 17Fh7	1h4J6F04	2S117F7S	6F16	l l b
p&on&Aum	J6 1	167F76	107F- 0	166F00	16hF2-	- F16	l l b
p&on&Aum	JJ 1	10SF67	1J1F1S	104F47	107F4S	- FS2	l l b
pufFur	- 4 1	1- S1JF4-	12h41F02	1- 106F21	1- S47F46	SFh2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				1S2		G
i EsFAum	2S- 1	SFSJ	SFS0	SFSJ	SFSJ	hF7h	l l b
i EsFAum	2S7 1	SFSh	SFS0	SFSJ	SFSJ	JFJ0	l l b
i An	11J 1	SF27	SF- 1	SF- S	SF2J	11F7J	l l b
i A&snAum	40 1	1F21	SFJJ	SFhS	1FSS	1JF07	l l b
UrsnAum	2- J 1	1Fh1	1FhJ	1Fh-	1Fh4	1F0h	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Re:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	SF4S	SF- 7	SF4S	SF- J	6Fh7	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				1S4		G
ZAnq	66 2	4- Fh6	- hF6J	4- F0-	42F47	7F60	l l b
ZAqonAum	hS 1	SF12	SF12	SF1S	SF11	12F62	l l b
ZAqonAum	h1 1	SF1S	SF57	SF50	SF50	- 6F- J	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	44F7J	44F21	44FS0	44F2h	SF6S	l l b
cn&mon%	121 1	SF14	SF10	SF1S	SF14	24Fh7	l l b
crwenAq	07 2	SF72	SF41	SF47	SF46	11F74	l l b
BsrAum	1- 7 1	40F26	7SF41	44F0h	40F4h	7Fh-	l l b
BsrAum	1- 0 1	46FSS	7SF2J	47Fh6	40F41	7F27	l l b
Ber%RAum	h 1	SF12	SF14	SF11	SF1-	hFh1	l l b
BAumu&E	2Sh 1				h6		G
BAumu&E	2Sh 2				h0		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF7J	SF- 7	SF40	SF40	24F14	l l b
RsOmAum	1S6 1	2Fh6	- F42	- F2h	- F22		l l b
RsOmAum	111 1	SFS2	SFS2	SFS1	SFSS		l l b
RsRqAum	4- 1	2JS14F44	- S1- SF4J	2J11JF11	2J074F- 4	4F17	l l b
RsRqAum	44 1	2J7S6FJ1	- 1- hJF21	2Jh26Fhh	2h61SF60	7F2J	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	1FJ6	1FhJ	1FJ0	1FhS	- F- J	l l b
RobsR&	7h 2	SF7h	SF62	SF72	SF7J	JF61	l l b
Rol l er	6- 2	SFJJ	SFJJ	SFh2	SFJh	2F7S	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	167 1				h0		G
y oPmAum	167 2				1SS		G
DrOAum	117 1				h6		G
DrOAum	117 2				h0		G
Don	74 2	0h7F70	J2SF00	J1hF4-	J11Fh2	1F07	l l b
Don	76 2	J24F- 6	J27FJ1	J1JF2h	J22FJ2	SF4J	l l b
Don	70 2	J46F77	J- 6F- 1	J47F21	J42F6h	SF66	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF2h	SF- 4	SF2J	SF- S	1SF6-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF:RonqF	Ronq5pt	Un&w
LesO	2S0 1	SF2J	SF2J	SF26	SF20	-F6-	l l b
LesO	2SJ 1	SF20	SF-1	SF26	SF2J	hF1J	l l b
LAEAum	6 1				JJ		G
MsgnewAum	24 2	044hF72	0-01F0S	07S1F1-	044SF0J	SFJJ	l l b
Msngsnewe	77 2	61FJ2	62FJ4	61F0h	62F17	SFh6	l l b
MoP%oOenum	h4 1	7F17	7F-6	7F-1	7F20	2FSh	l l b
MoP%oOenum	h7 1	6FSJ	6F-h	6F-S	6F27	2F70	l l b
MoP%oOenum	h6 1	6FS4	6F76	7Fh4	6F1J	7F-6	l l b
MoP%oOenum	h0 1	6F1S	6F7h	7FJS	6F16	6F46	l l b
MoP%oOenum	hJ 1	6F2J	6F0S	7Fh1	6F-S	6F- -	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ6	SFh0	SF00	SFJ0	11F-7	l l b
8EowI Eoruw	- 1 2	hF42	1JF04	14F77	4F74		l l b
8o&swwAum	- h 2	2J02F47	2J77Fh-	2J44F66	2J70F6J	SF4h	l l b
5EoOAum	1S- 1				h4		G
5EoOAum	1S- 2				h0		G
pqsnOAum	47 1				h4		G
pqsnOAum	47 2				h4		G
pe?enAum	J2 1	SF42	SFJS	1FS2	SF07	4SF67	l l b
pe?enAum	00 2	SF-J	-F1S	-F1-	1Fh7	1S-F-2	l l b
pe?enAum	0J 2	SF-S	SF44	1F-1	SF6J	JSF14	l l b
pAqon	2J 1	-22FJS	-47F-S	-14FJ6	-20F67	4FJ2	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	217F11	l l b
pA?er	1Sh 1	SFSS	SFS1	SFSS	SFSS	h4F64	l l b
poOAum	2- 2	211h1F06	2Sh60Fh4	21442F41	212SSF0S	1F12	l l b
p&on&Aum	J6 1	166F7-	1JSF4J	160F11	101F-0	4F61	l l b
p&on&Aum	JJ 1	101F66	1J0FJJ	100F1h	10JFh1	4F61	l l b
pu?ur	-4 1	12h60FJS	147-4F0-	124h0F40	1- - - - F- -	JFSS	l l b
i erbAum	17h 1				h6		G
i erbAum	17h 2				hh		G
i EsPAum	2S- 1	SFS0	SFS7	SFSJ	SFS6	27FS4	l l b
i EsPAum	2S7 1	SFS7	SFS6	SFS7	SFS7	1-F2J	l l b
i An	11J 1	SF2-	SF21	SF1h	SF21	JF66	l l b
i A&snAum	40 1	SFJ0	SFhS	SF0J	SFJ7	6FhS	l l b
UrsnAum	2-J 1	1Fh2	2FS0	1Fh4	1FhJ	4F12	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	71 2	SF71	SF- -	SF- 7	SF- h	24Fh6	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h7		G
Y&&Aum	Jh 2				h0		G
ZAnq	66 2	42F0J	4- F- 1	4- F61	4- F2-	SFh0	l l b
ZAqonAum	hS 1	SF50	SF50	SF50	SF50	7F71	l l b
ZAqonAum	h1 1	SF50	SF50	SF50	SF50	7F40	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Aluminium	23X2	8.81	9.8O	9.66	9.4-	0.66	ppb
Antimony	121X1	O.O-	O.O-	O.O4	O.O-	23.O2	ppb
Arsenic	30X2	O.1O	O.O3	O.O3	O.O3	2O.3O	ppb
Barium	1- 0X1	9.1O	9.O9	9.36	9.- 2	4.11	ppb
Barium	1- 3X1	8.99	9.11	9.62	9.24	- .6O	ppb
Beryllium	9X1	O.O4	O.O4	O.O0	O.O4	- .92	ppb
Bismuth	2O9X1				1O2		%
Bismuth	2O9X2				1O2		%
Bromine	81X1						cps
Cadmium	1O8X1	O.- 4	O.10	O.01	O.- -	04.81	ppb
Cadmium	1O6X1	X2.0-	X1.48	X1.03	X1.86		ppb
Cadmium	111X1	XO.O4	XO.O1	XO.O-	XO.O-		ppb
Calcium	4- X1	0489.16	0323.03	08O- .21	063- .- 1	2.89	ppb
Calcium	44X1	0398.18	6O44.4O	6180.30	6OO9.44	- .26	ppb
Carbon	12X1						cps
Carbon	12X2						cps
Chlorine	- 0X1						cps
Chlorine	- 0X2						cps
Chromium	02X2	O.- 0	O.4-	O.- 9	O.- 9	1O.66	ppb
Cobalt	09X2	O.12	O.O9	O.12	O.11	16.99	ppb
Copper	6- X2	O.28	O.- -	O.- 4	O.- 2	11.41	ppb
Dysprosium	106X1						cps
Dysprosium	106X2						cps
Erbium	164X1						cps
Erbium	164X2						cps
Gadolinium	16OX1						cps
Gadolinium	16OX2						cps
Holmium	160X1				1O2		%
Holmium	160X2				1O4		%
Indium	110X1				1O2		%
Indium	110X2				1O2		%
Iron	04X2	166.01	166.03	163.28	166.39	O.26	ppb
Iron	06X2	166.- 4	169.40	16- .48	166.42	1.39	ppb
Iron	03X2	136.32	191.- 4	132.- 6	18O.14	0.02	ppb
Krypton	8- X1						cps
Lead	2O6X1	O.O8	O.O9	O.O9	O.O8	0.- -	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Lead	2O3X1	O.O0	O.O3	O.O0	O.O6	2O.82	ppb
Lead	2O8X1	O.O3	O.O6	O.O3	O.O3	0.90	ppb
Lithium	6X1				92		%
Magnesium	24X2	1438.11	1484.20	141- .8-	1408.3-	2.63	ppb
Manganese	00X2	12.41	12.1-	11.34	12.O9	2.38	ppb
Molybdenum	94X1	1.19	1.19	1.O4	1.14	3.01	ppb
Molybdenum	90X1	1.O8	1.14	1.2-	1.10	6.- 0	ppb
Molybdenum	96X1	1.14	1.22	1.- 2	1.2-	3.- 6	ppb
Molybdenum	93X1	1.13	1.20	1.4O	1.23	9.- -	ppb
Molybdenum	98X1	1.13	1.22	1.- O	1.2-	0.4O	ppb
Neodymium	10OX1						cps
Neodymium	10OX2						cps
Nickel	6OX2	O.21	O.10	O.21	O.19	13.98	ppb
Phosphorus	- 1X2	X13.8O	X- 4.O1	X26.98	X26.23		ppb
Potassium	- 9X2	084.- 4	084.16	003.- 8	030.29	2.3O	ppb
Rhodium	1O- X1				1OO		%
Rhodium	1O- X2				1O-		%
Scandium	40X1				98		%
Scandium	40X2				98		%
Selenium	82X1	O.2-	XO.- 0	XO.22	XO.11		ppb
Selenium	33X2	XO.- 8	XO.- 8	XO.- 8	XO.- 8		ppb
Selenium	38X2	O.44	O.O0	O.O3	O.19	118.0-	ppb
Silicon	28X1	62.18	60.6O	63.08	60.12	4.2O	ppb
Silver	1O3X1	O.OO	O.OO	O.O1	O.OO	18- .6-	ppb
Silver	1O9X1	O.OO	O.OO	O.OO	O.OO		ppb
Sodium	2- X2	4210.O4	4140.10	41O2.OO	4104.O6	1.- 3	ppb
Strontium	86X1	- - .82	- 4.18	- 4.18	- 4.O6	O.62	ppb
Strontium	88X1	- 2.64	- 4.O2	- - .21	- - .29	2.O9	ppb
Sulfur	- 4X1	1630.83	2O98.11	2216.04	1996.84	14.2-	ppb
Terbium	109X1				1O1		%
Terbium	109X2				1O-		%
Thallium	2O- X1	O.O4	O.O4	O.O0	O.OO	16.14	ppb
Thallium	2OOX1	O.O4	O.O4	O.O4	O.O4	11.22	ppb
Tin	118X1	O.12	O.O6	O.O6	O.O8	41.03	ppb
Titanium	43X1	O.14	O.14	O.13	O.10	12.29	ppb
Uranium	2- 8X1	O.- 8	O.- 8	O.- 9	O.- 8	1.4O	ppb

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Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Vanadium	01X2	O.O8	O.O8	O.O0	O.O3	19.86	ppb
Ytterbium	132X1						cps
Ytterbium	132X2						cps
Ytterbium	136X1						cps
Ytterbium	136X2						cps
Yttrium	89X1				1OO		%
Yttrium	89X2				1O1		%
Zinc	66X2	9.28	9.46	8.94	9.2-	2.84	ppb
Zirconium	9OX1	O.OO	O.O2	O.O1	O.O1	1O1.91	ppb
Zirconium	91X1	O.OO	O.O1	O.OO	O.OO	2693.40	ppb

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	210hFh1	220SFS4	224- F- 1	22- 1FSh	2FS0	l l b
cn&mon%	121 1	hhF0S	hhF1S	1SSF6h	hhFJ-	SFJ1	l l b
crwenAq	07 2	41F- -	42F07	41F67	41Fh1	1F0h	l l b
BsrAum	1- 7 1	2- 2JF4J	2- - 6FJJ	2242FJ7	2- S2F0-	2F26	l l b
BsrAum	1- 0 1	226SF26	22- 4FJh	22S0F- 4	22- 4F16	1F1J	l l b
Ber%BAum	h 1	7- FS4	77FSS	77F11	74F- J	2F14	l l b
BAumu&E	2Sh 1				hJ		G
BAumu&E	2Sh 2				hJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	41F44	47F10	47F- 0	4- Fhh	7FS4	l l b
RsOmAum	1S6 1	- hFS7	- JF21	- hF- h	- JFJJ	1F70	l l b
RsOmAum	111 1	7- F- 4	72F1J	7SFhJ	72F10	2F26	l l b
RsRqAum	4- 1	2061SF6S	20h17F0h	2J- 0SF72	20h67F64	1F- 0	l l b
RsRqAum	44 1	2J40- F46	2J6- hFJh	2Jh40FS1	2J6J6F0h	SFJ4	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	216F64	227F04	221F6-	221F- -	2FS6	l l b
RobsR&	7h 2	700FS1	611F4S	611F6S	6SSFSS	- F- 2	l l b
Rol l er	6- 2	20SFS4	2JSF64	206F21	207F6-	1Fh-	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				hh		G
y oFmAum	167 2				hh		G
DnOAum	117 1				hJ		G
DnOAum	117 2				h0		G
Don	74 2	16- 7Fh1	16hJFJ7	167SF46	1661F04	1FhJ	l l b
Don	76 2	176- FJ2	1642FS6	1614F1S	16S6F66	2F40	l l b
Don	70 2	1407F21	17JSF44	17- 4F0J	17- SF14	- F47	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	1JFS6	1JF64	1JF2-	1JF- 1	1F62	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	1JF41	1JF74	1JF46	1JF40	SF-0	l l b
LesO	2SJ 1	1JF1h	1JF77	1JF76	1JF4-	1F14	l l b
LAEAum	6 1				hS		G
MsgnewAum	24 2	0140F26	046SF0J	04S1F64	0- - 6F76	2F20	l l b
Msngsnewe	77 2	70JFS1	612F0J	7h2F2-	7h4F-4	2Fh4	l l b
MoP%bOenum	h4 1	7F2J	7F7S	7F22	7F-4	2F0-	l l b
MoP%bOenum	h7 1	6F16	6FS0	6FS4	6FSh	1FS-	l l b
MoP%bOenum	h6 1	6F14	6F2-	7Fh0	6F11	2F22	l l b
MoP%bOenum	h0 1	6FS-	6F41	6FS-	6F17	- F77	l l b
MoP%bOenum	hJ 1	6FS2	6F-0	7FhJ	6F12	- F77	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	700F4J	7h6F12	7h7F-0	7JhF67	1F0h	l l b
8EowI Eoruw	- 1 2	2JF0-	hFS1	7F-6	1SF0h		l l b
8o&swwAum	- h 2	200SF2-	2J42F4h	2J40FSh	2J1hFh4	1F7-	l l b
5EoOAum	1S- 1				h7		G
5EoOAum	1S- 2				hJ		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				h7		G
peRenAum	J2 1	h7F7h	1SSF12	h6F47	h0F-h	2F40	l l b
peRenAum	00 2	114F4J	1S0FS2	J4F77	1S2FS2	17F20	l l b
peRenAum	0J 2	1S6F0S	1S7F71	1S6F22	1S6F14	SF76	l l b
pARqon	2J 1	- 21F0S	- 2JF40	- - 4F27	- 2JF14	1Fh1	l l b
pARer	1S0 1	4- FJ7	4- Fh6	42Fh-	4- F7J	1F2h	l l b
pARer	1Sh 1	4- F42	42FhJ	4- FJS	4- F4S	SFh7	l l b
poOAum	2- 2	2S0- 6FS2	217S0F6S	21116F2h	2111hFh0	1FJ-	l l b
p&ona&Aum	J6 1	167FS6	10- FS-	167F4h	160FJ6	2F60	l l b
p&ona&Aum	JJ 1	102F44	104F1S	104F42	10- F66	SF61	l l b
puRur	- 4 1	12010F64	12J- JF07	1- S72FJ4	12J6hF04	1F-2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				hh		G
i EsRAum	2S- 1	44FhJ	46F21	46F21	47FJS	1F77	l l b
i EsRAum	2S7 1	46F27	46FJ7	40F17	46F07	SFhJ	l l b
i An	11J 1	SF21	SF2J	SF-4	SF2J	2- F2h	l l b
i A&snAum	40 1	1FS1	1F17	1F1-	1F1S	6Fh4	l l b
UrsnAum	2- J 1	1FJJ	1FhS	1Fh0	1Fh2	2F4-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	76JF4h	7JJF20	7JSF40	70hFSJ	1F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				hJ		G
ZAnq	66 2	7JSF10	6SJF76	7h4F20	7h4F- -	2F- h	l l b
ZAqonAum	hS 1	SF5J	SF5J	SF5J	SF5J	- Fh2	l l b
ZAqonAum	h1 1	SF1-	SF12	SF5J	SF11	2- F- 0	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&s
clumAnAum	20 2	44F61	46F1-	48F86	46F7-	4F6-	I I b
cn&Amon%	121 1	SF2S	SF21	SF18	SF2S	hFS1	I I b
crsenAq	07 2	SF- 8	SF46	SF48	SF44	1SF8-	I I b
BarAum	1- 7 1	47F17	47F14	4SF60	4- F67	7Fh2	I I b
BarAum	1- 0 1	47F41	46FS7	4SF44	4- Fh0	6Fh8	I I b
Ber%lAum	h 1	SF14	SF14	SF17	SF17	- F8S	I I b
BAsmu&E	2Sh 1				1S2		G
BAsmu&E	2Sh 2				1SS		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SF24	SF4-	SFSS	SF22	h7F80	I I b
RaOmAum	1S6 1	4F4S	4F1h	- F10	- Fh2		I I b
RaOmAum	111 1	SFS1	SFS2	SFS-	SFS1	- 4hF8S	I I b
RalqAum	4- 1	20718F0-	20- 12F1h	242- SF64	26- 7- F87	6Fhh	I I b
RalqAum	44 1	28S87FS2	20hS1F1h	246h0Fh6	268h4F02	0FS8	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
RElorAne	- 7 1						ql s
RElorAne	- 7 2						ql s
REromAum	72 2	2F48	2F78	2F7-	2F7-	2FS0	I I b
Robal&	7h 2	SF00	SF0-	SF06	SF07	2F4h	I I b
RoI I er	6- 2	SFh6	SFh7	SFh8	SFh6	1F7-	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				1S4		G
y olmAum	167 2				1S1		G
DnOAum	117 1				1S4		G
DnOAum	117 2				hh		G
Don	74 2	146F7-	14- F20	176F2S	148F60	4F7-	I I b
Don	76 2	146FS-	140F2S	146F4h	146F70	SF4S	I I b
Don	70 2	180F8S	187FS-	1h4F11	188Fh8	2F46	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	SF4-	SF48	SF41	SF44	8F87	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	SF- h	SF42	SF- 6	SF- h	8F14	I I b
LeaO	2S8 1	SF42	SF46	SF- 8	SF42	hF- 8	I I b
LA&EAum	6 1				h2		G
MagnesAum	24 2	0120F61	02S4FS7	0282F01	02S4F0h	1FS8	I I b
Manganese	77 2	6SFS-	78F62	6SF6-	7hF06	1F0-	I I b
Mol%bOenum	h4 1	7F- 2	7F- S	4F6S	7FS8	8F1S	I I b
Mol%bOenum	h7 1	6FSS	6FSh	7F48	7F36	7F61	I I b
Mol%bOenum	h6 1	7FhS	7Fh1	7F21	7F60	0FSh	I I b
Mol%bOenum	h0 1	6F16	6FS4	7F4S	7F30	0FS2	I I b
Mol%bOenum	h8 1	6F2-	7Fh8	7F- h	7F30	0F- 8	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	1F44	1F71	1F7h	1F71	7FS1	I I b
PEosI Eorus	- 1 2	7F4S	2F2h	18Fh0	0F- 6		I I b
Po&assAum	- h 2	20h- Fh7	2087F- 6	2828F7S	28S2F6S	SF31	I I b
5 EoOAum	1S- 1				1S1		G
5 EoOAum	1S- 2				hh		G
pqanOAum	47 1				1S2		G
pqanOAum	47 2				h6		G
pelenAum	82 1	SF0S	SF7h	SF36	SF02	1hF18	I I b
pelenAum	00 2	SF- 8	SF06	SF- 8	SFSS	h4208F31	I I b
pelenAum	08 2	SF10	SF01	SF- 4	SF4S	68FS7	I I b
pAAqon	28 1	- 21F0h	- 18F38	281FSh	- S0F27	0F- h	I I b
pAver	1S0 1	SFSS	SFSS	SFS1	SFSS	h- F- -	I I b
pAver	1Sh 1	SFS1	SFS1	SFSS	SFS1	- 2F31	I I b
poOAum	2- 2	2S77- F31	21S72F2S	2S884F06	2S8- SF26	1F22	I I b
p&ona&um	86 1	162F2-	167F12	146Fh2	178FSh	6F1h	I I b
p&ona&um	88 1	16hF- -	102FSh	148F77	16- F- 2	0F38	I I b
pulfur	- 4 1	12- 80F20	11h01F70	h217F7S	111h1F47	17F4S	I I b
i erbAum	17h 1				1S4		G
i erbAum	17h 2				1SS		G
i EallAum	2S- 1	SFS8	SFS0	SFS6	SFS0	1SF46	I I b
i EallAum	2S7 1	SFS0	SFS6	SFS0	SFS0	6F74	I I b
i An	118 1	2Fhh	- FS8	2F6S	2F3h	8F0S	I I b
i A&anAum	40 1	SF08	SFh0	SF60	SF31	1hF27	I I b
UranAum	2- 8 1	1Fh1	1F37	1F0-	1F3-	4Fh6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	71 2	SF76	SF4h	SF60	SF70	17F2-	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8h 1				1S2		G
Y&&Aum	8h 2				hh		G
ZAnq	66 2	40F71	47Fh6	46F02	46F0-	1F66	I I b
ZAqonAum	hS 1	SF58	SF56	SF58	SF50	16F76	I I b
ZAqonAum	h1 1	SF58	SF50	SF56	SF50	1- F16	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 976974	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	46U2	40U45	44U42	46U58	-U6	I I b
c n&Amon%	121 1	SU15	SU10	SU17	SU10	12U08	I I b
c rsenAq	07 2	SU47	SU47	SU71	SU40	0U18	I I b
BarAum	1-7 1	7SU17	47U71	42U55	46U22	0U36	I I b
BarAum	1-0 1	45U62	42U62	4-U87	47U6	8U27	I I b
Ber%IAum	5 1	SU17	SU1-	SU12	SU1-	5U67	I I b
BAsmu&E	2S5 1				57		G
BAsmu&E	2S5 2				1SS		G
BromAne	81 1						ql s
v aOmAum	1S8 1	SU45	SU5	SU77	SU48	16U7S	I I b
v aOmAum	1S6 1	7US	2U25	SU46	2U68		I I b
v aOmAum	111 1	SUS-	SUS4	SUS2	SUS1	474US5	I I b
v alqAum	4- 1	- - 571U0-	28- 48U50	25200US	- S726USS	5U34	I I b
v alqAum	44 1	- 4024U10	258SSU0-	- SS75U42	- 1728U11	8U05	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	-7 1						ql s
v ElorAne	-7 2						ql s
v EromAum	72 2	SU74	SU71	SU72	SU72	-U8	I I b
v obal&	75 2	SU64	SU6-	SU6S	SU62	-U7S	I I b
v ol I er	6- 2	SU52	SU3S	SU34	SU37	0U14	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	167 1				54		G
h olmAum	167 2				1S1		G
DnOAum	117 1				5-		G
DnOAum	117 2				1SS		G
Don	74 2	04U10	02U37	0SU05	02U61	2U7	I I b
Don	76 2	00U0	02U48	65U3-	0-U2-	7U22	I I b
Don	70 2	1S0U70	1S5U51	110US2	111U7S	4U42	I I b
Kr%I &on	8- 1						ql s
LeaO	2S6 1	SUS	SU15	SU21	SU2-	2-U34	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	SU1	SU15	SU15	SU2-	28U52	I I b
LeaO	2S8 1	SU28	SU22	SU22	SU24	14U71	I I b
LA&EAm	6 1				80		G
y aMhesAm	24 2	8287U-S	81S6U56	0574U14	8117U16	2U54	I I b
y anManese	77 2	70U66	77U08	74U-1	77U52	- U55	I I b
y ol%bOenum	54 1	8U-2	0U77	0U-5	0U06	6U41	I I b
y ol%bOenum	57 1	6U84	6U17	6U18	6U-5	6U17	I I b
y ol%bOenum	56 1	0U18	6U-2	6U44	6U64	6U50	I I b
y ol%bOenum	50 1	0U51	6U48	6U54	6U71	0U40	I I b
y ol%bOenum	58 1	0U54	6U12	6U24	6U40	0U01	I I b
NeoO%mAm	17S 1						ql s
NeoO%mAm	17S 2						ql s
NAqkel	6S 2	SU68	SU05	SU60	SU01	5U48	I I b
PEosI Eorus	- 1 2	- SU1-	- - U56	26U45	0U77		I I b
Po&assAm	- 5 2	286- U57	2002U4-	2686U66	2004U57	- U18	I I b
CEoOAm	1S- 1				5-		G
CEoOAm	1S- 2				1SS		G
pqanOAm	47 1				52		G
pqanOAm	47 2				56		G
pelenAm	82 1	1U10	1U50	SU81	1U52	10U55	I I b
pelenAm	00 2	1U51	SU00	2U52	1U80	70U06	I I b
pelenAm	08 2	SU02	SU72	SU84	SU65	2- U46	I I b
pAAqon	28 1	- 65U8-	- 17U10	- 2- U77	- - 6U18	8U06	I I b
pAger	1S0 1	SU51	SU51	SU55	SU51	6- U58	I I b
pAger	1S5 1	SU51	SU55	SU55	SU55	180U10	I I b
poOAm	2- 2	22825U76	22228U4-	22- 51U85	2248- U-S	1U-8	I I b
p&ona&Am	86 1	211U7-	108U50	105U74	15SU51	5U81	I I b
p&ona&Am	88 1	210U51	181U-0	18- U22	154U10	1SU6S	I I b
pulfur	- 4 1	1584- U46	17160U86	17855U14	1650SU17	14U82	I I b
i erbAm	175 1				57		G
i erbAm	175 2				1S1		G
i EallAm	2S- 1	SU50	SU54	SU57	SU57	26U-4	I I b
i EallAm	2S7 1	SU56	SU54	SU54	SU54	22U65	I I b
i An	118 1	SU42	2U42	SU-7	1U56	11SU--	I I b
i A&anAm	40 1	1U25	1U-2	SU81	1U14	24U06	I I b
RranAm	2- 8 1	2U-7	1U55	2U5-	2U12	5U24	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	71 2	SU7	SU8	SU7	SU6	4U06	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	85 1				52		G
Y&&Aum	85 2				1SS		G
ZAnq	66 2	- 6U47	- 7U87	- 4U61	- 7U64	2U64	I I b
ZAqonAum	5S 1	1U76	1U7	1U0	1U4-	8U2-	I I b
ZAqonAum	51 1	1U04	1U22	1U25	1U42	15U84	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J97 2	&sTsFdP:u sb r :9	S- SqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	0U76	7UJ1	6U71	6U66	12U70	DDe
q5Tb n5%	121 1	SUS0	SUS6	SUSJ	SUS0	1NUJ4	DDe
qpwr 5cd	07 2	SUS2	SUS-	SUS1	SUS2	4- USJ	DDe
Bspcmb	1- 7 1	2U6-	2UJ4	2U6S	2U7-	6U20	DDe
Bspcmb	1- 0 1	2U67	2U64	2U76	2U62	1UN-	DDe
Br p%PPmb	J 1	SUS2	SUS2	SUS1	SUS2	2- U26	DDe
Bcvb mTE	2SJ 1				J6		G
Bcvb mTE	2SJ 2				JJ		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUS7	SUS-	SUJ-	SU1S	1J1UN4	DDe
v sob cmb	1S6 1	2UJ0	- U62	6U12	4U24		DDe
v sob cmb	111 1	SUS1	SUS2	SUSN	SUS4		DDe
v sPdcmb	4- 1	67UJ0	6JU1J	64U4-	66U7-	- U67	DDe
v sPdcmb	44 1	11- UN7	117U14	1SJUJ-	112UJ0	2U4S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	1UJ1	1UJ4	1U06	1UN0	7US2	DDe
v nesPT	7J 2	SU16	SU12	SU1-	SU14	12UN7	DDe
v nDDr p	6- 2	SU40	SU71	SU41	SU46	1SU2J	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				J6		G
h nPb cmb	167 2				1SS		G
t5ocmb	117 1				J7		G
t5ocmb	117 2				J0		G
tpn5	74 2	404U11	406USJ	40- U61	404U6S	SU2N	DDe
tpn5	76 2	401U0-	4N6USO	40- UJS	400U2-	1U62	DDe
tpn5	70 2	407U7S	4JSU76	476U06	404U20	- U70	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	SUJN	SUJ-	SUJN	SUJ0	0UJ-	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdPP:u sb r :9	S- SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	SU4	SU1	SU4S	SU7	12U4-	DDe
Lr so	2SN 1	SU6	SU4	SU0	SU6	- UJJ	DDe
LdEomb	6 1				N7		G
y sM5r womb	24 2	0U02	JU6	6U44	0UN4	1NU6N	DDe
y s5Ms5r wr	77 2	- U7N	- U0N	- U4-	- U6S	4UJ4	DDe
y nP%eor 5mb	J4 1	SUS-	SUSJ	SU1-	SUSN	7NU0	DDe
y nP%eor 5mb	J7 1	SUS0	SUS-	SUSJ	SUS6	42U64	DDe
y nP%eor 5mb	J6 1	SUS7	SU11	SUS6	SUS0	4- USN	DDe
y nP%eor 5mb	J0 1	SUS6	SUS6	SUS4	SUS7	22U74	DDe
y nP%eor 5mb	JN 1	SUS4	SUS6	SUS0	SUS6	- 2U17	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	1U07	1U04	1U02	1U04	1US0	DDe
8 EnwDEnpmw	- 1 2	0UJS	JU6-	JUJ7	2U04		DDe
8 nTswwomb	- J 2	40U61	72UN0	44U7J	4NU6	NU66	DDe
CEnoomb	1S- 1				J7		G
CEnoomb	1S- 2				JN		G
I ds5oomb	47 1				J4		G
I ds5oomb	47 2				J6		G
I r P 5omb	N2 1	SU11	SU0-	SU14	SU2-		DDe
I r P 5omb	00 2	SUJN	SUJN	1UJS	SUJN	- 44U7-	DDe
I r P 5omb	0N 2	SU7-	SU72	SU1-	SU1	121U00	DDe
I dPdn5	2N 1	1U7S	1U-	1U2	1UJN	0U24	DDe
I dPgr p	1S0 1	SUSS	SUS1	SUS1	SUSS	102U12	DDe
I dPgr p	1SJ 1	SUSS	SUSS	SUSS	SUSS		DDe
I nomb	2- 2	266UNN	267U42	26SU76	264U2N	1U27	DDe
I Tpm5Tomb	N6 1	SU26	SU22	SU2-	SU24	NU72	DDe
I Tpm5Tomb	NN 1	SU21	SU21	SU22	SU22	1U67	DDe
I mPmp	- 4 1	22U27	26NU7-	44NUJ4	246UJ0		DDe
Ar pemb	17J 1				J0		G
Ar pemb	17J 2				JN		G
AEs PPmb	2S- 1	SUS7	SUS4	SUS7	SUS7	JUJ6	DDe
AEs PPmb	2S7 1	SUS4	SUS-	SUS2	SUS-	1JUSN	DDe
Ad5	11N 1	SUJ0	SUJ4	SUJ6	SUJ6	- U64	DDe
AdS5omb	40 1	1UJ4	1U62	1U42	1U46	1SUS4	DDe
Rps5omb	2- N 1	SUSS	SUSS	SUSS	SUSS	- 4UJ4	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPnTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdP:u sb r :9	S- SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	SUS4	SUS7	SUS7	SUS7	10U66	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	NJ 1				J7		G
YTTpomb	NJ 2				JN		G
Zc5d	66 2	NU0S	NU7-	NU60	NU64	1US7	DDe
Zqpdn5omb	JS 1	SUS1	SUS2	SUSS	SUS1	NNU0S	DDe
Zqpdn5omb	J1 1	SUS4	SUS1	SUS2	SUS2	17NU41	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	:SF11	:SF5-	SF50	:SF57		I I b
c5&Amn5h	121:1	SF51	SF51	SF51	SF51	74F0-	I I b
crwe5Aq	0-:2	SF57	SF5S	SF51	SF51	1S7F 6	I I b
BsrAum	17-:1	SF5S	SF51	SF5S	SF5S	181F04	I I b
BsrAum	170:1	SF5S	SF51	:SF51	SF5S	1---F41	I I b
BerhFAum	:1	SF5S	SF51	SF5S	SF51	1- F40	I I b
BAumu&%	2S :1				1S2		E
BAumu&%	2S :2				1S7		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF74	SF-7	SF14	SF74	-8F00	I I b
CsOmAum	1S6:1	:7F6-	:2F52	:7F88	:7F18		I I b
CsOmAum	111:1	:SF5-	:SF5-	:SF54	:SF5-		I I b
CsRqAum	47:1	SF7	:SF8	:1F57	:SF-1		I I b
CsRqAum	44:1	28F88	26F68	20F1	20F-8	4F18	I I b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	:SF51	SF5-	:SF56	:SF51		I I b
CnbsR&	- :2	:SF51	:SF51	SF5S	:SF51		I I b
CnI I er	67:2	SF50	SF50	SF14	SF5	78F82	I I b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S1		E
HnRmAum	16-:2				1S4		E
D5OAum	11-:1				1S1		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	SF22	:SF52	SF14	SF11	111F22	I I b
Dn5	-6:2	SF5	SF54	SF2S	SF11	04F2	I I b
Dn5	-0:2	:1F22	:SF-S	:SF74	:SF6		I I b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF51	SF5S	:SF51	SF5S	70-F	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S1	SF5S1	SF5S2	SF5S1	4-F1S	I I b
LesO	2S8:1	SF5S2	SF5SS	SF5SS	SF5S1	6F84	I I b
LA&%Aum	6:1				7		E
y sM5ewAum	24:2	SF24	SF1	:SF5-	SF17	127F-2	I I b
y s5Ms5ewe	- - :2	SF54	SF52	SF54	SF57	40F1-	I I b
y nPbOe5um	4:1	SF51	SF5-	SF5-	SF54	-6F1-	I I b
y nPbOe5um	- :1	SF5S	SF51	SF51	SF51	70F24	I I b
y nPbOe5um	6:1	SF51	SF52	SF51	SF51	-4F71	I I b
y nPbOe5um	0:1	SF5S	SF54	SF5S	SF51	1-8F2	I I b
y nPbOe5um	8:1	SF51	SF5S	SF5S	SF51	7F78	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF51	SF51	SF5S	SF51	- -F21	I I b
3%nwl %nruw	71:2	:7 F26	SF14	:44F46	:20F86		I I b
3n&swwAum	7 :2	4F60	6F8S	1SF8-	0F44	42F21	I I b
v %nOAum	1S7:1				1S1		E
v %nOAum	1S7:2				1S-		E
pqs5OAum	4- :1				1S1		E
pqs5OAum	4- :2				1S1		E
pefe5Aum	82:1	:SF61	:SF20	:SF1	:SF76		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	:SF-0	:SF10	SF48	:SF5		I I b
pAAqn5	28:1	SF22	SF57	SF58	SF11	SF58	I I b
pAger	1S0:1	SF51	SF51	SF5S	SF51	0F27	I I b
pAger	1S :1	SF5S	SF51	SF51	SF5S	81F6S	I I b
pnOAum	27:2	72F42	70F74	48F41	7 F7	2SF8S	I I b
p&n5&Aum	86:1	:SF57	SF50	:SF51	SF51	4-8F21	I I b
p&n5&Aum	88:1	SF57	SF57	SF5S	SF52	6F4S	I I b
pufur	74:1	:-S6F-6	:8- -F-2	:4-4F 2	:6S-F60		I I b
i erbAum	1- :1				1S2		E
i erbAum	1- :2				1S7		E
i %sPAum	2S7:1	SF57	SF54	SF54	SF54	18F7S	I I b
i %sPAum	2S-:1	SF52	SF52	SF54	SF57	24F52	I I b
i A5	118:1	:SF51	SF5S	SF1-	SF5-	1 6F21	I I b
i A&5Aum	40:1	SF5S	:SF5-	SF52	:SF51		I I b
Rrs5Aum	278:1	SF5S	SF5S	SF5S	SF5S	2F48	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 4JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	-1:2	:SF5S1	SF5SS	:SF5S1	SF5SS		l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S2		E
Y&&Aum	8 :2				1S8		E
ZA5q	66:2	:SF5S8	:SF5S0	SF5S7	:SF5S4		l l b
ZAqn5Aum	S:1	:SF5S1	SF5S1	SF5SS	SF5SS	1-86F4-	l l b
ZAqn5Aum	1:1	SF5SS	:SF5S1	:SF5S1	:SF5S1		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 2SB:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l &JD JaJ	LC: 2S	t A8m8A5JJwq&apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J14aS a14	t w&wJA8 Juwb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	77F6	74F-S	4SF-0	76F2-	1SF70	l l e
c5&b n5h	12191	7F1N	7F2-	7F2N	7F27	1F-4	l l e
cpl r 5Aq	0-92	1FNS	1F 1	1F62	1F0N	NF7S	l l e
BwpAmb	17-91	1-F76	16F41	16F72	16FS7	7F62	l l e
BwpAmb	17091	1-F6N	16F7-	16F10	16FS0	2F16	l l e
Br ph8Amb	91	1F62	1F6S	1F-1	1F-N	7F6-	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S-		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	2FSN	1F 0	2FN4	2F2	2SF-	l l e
CwCb Amb	1S691	SF1-	9-F4N	SF74	91F66		l l e
CwCb Amb	11191	1F S	1F00	1F64	1F00	0F2N	l l e
Cw&pAmb	4791	04SF02	024FN2	02NF-0	071F70	1F14	l l e
Cw&pAmb	4491	0-4F06	07 F61	062F01	0-2F76	1F-6	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	7F27	7F1N	7F21	7F21	SF0N	l l e
Cnew&&	- 92	1F6N	1F6	1F6	1F6	SF7S	l l e
CnI l r p	6792	7F6S	7F67	7F6S	7F61	SF-7	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn&5Amb	16S91						ql l
GwOn&5Amb	16S92						ql l
Hn&b Amb	16-91				1S7		E
Hn&b Amb	16-92				1S-		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S7		E
Dpn5	-492	774F0N	742F70	776FN2	770F	1F16	l l e
Dpn5	-692	774FN4	77 F-N	772F2-	77-F-6	1F11	l l e
Dpn5	-092	726F0-	726F-N	720FS4	726F0	SFS0	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F4	1F-2	1F4N	1F-S	1F42	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 2SB:	D5l &pmb 5r &uwb r Ja	3N
C&A5&J wb l &JD JaJ	LC: 2S	t A&m&A5JJwq&apJa	1
t w&JTJ A&r Jcqdm&r QJa	2S279S0912J14aS a14	t w&wJA&JuwbrJa	S77LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
LrwO	2S091	1F-	1F40	1F4	1F- S	2F06	I l e
LrwO	2SN91	1F4	1F- 1	1F40	1F4	1F7	I l e
LA&%Amb	691				4		E
y wM5r l Amb	2492	N- 7F- 1	N- 2F14	N7NF76	N4NFSS	SF	I l e
y w5Mw5r l r	- - 92	1F02	1FN6	2FSS	1FN6	0F4	I l e
y n8neOr 5mb	491	NFNS	NF- 1	NF6-	NF0	1F- 2	I l e
y n8neOr 5mb	- 91	0F71	0F7S	0F- 6	0F7	1F 6	I l e
y n8neOr 5mb	691	0F46	0F- 1	0F6-	0F- 4	1F7S	I l e
y n8neOr 5mb	091	0FS4	0F6N	0F7	0F70	4F76	I l e
y n8neOr 5mb	N91	0F4S	0F2-	0F40	0F70	1F- 0	I l e
u r nOhb Amb	1- S91						q l l
u r nOhb Amb	1- S92						q l l
u Aqkr 8	6S92	1FN6	2F1S	2FS6	2FSS	6F74	I l e
3 %nl l %npm	7192	920FN-	916FN2	971F6	92- F4-		I l e
3 n&w l Amb	7 92	N12F N	N2 F-	NS0F- N	N16F0S	1F4S	I l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4- 91				1S1		E
: qw5OAmb	4- 92				1S1		E
: r & 5Amb	N291	NFSN	NF- 4	NF- 0	NF4S	7F2	I l e
: r & 5Amb	0092	12F66	1SF62	4F00	F7-	47FNS	I l e
: r & 5Amb	0N92	F4S	1SF- 4	NFS0	F74	17F2-	I l e
: A&qn5	2N91	1F22	SF 4	1F11	1FS	17FS7	I l e
: A&gr p	1S091	1F4	1F64	1F01	1F61	6F N	I l e
: A&gr p	1S 91	1F64	1F67	1F62	1F67	SF6S	I l e
: nOAmb	2792	NN7FNN	S1F4N	N- SF7	N0NF- N	2F -	I l e
: &m5&Amb	N691	1F02	1F- 6	1F6S	1F67	- F1-	I l e
: &m5&Amb	NN91	1F6S	1F- 4	1F- 4	1F- 6	2FS0	I l e
: m&mp	7491	9476FS0	956- F2N	9470F27	9- 12FN6		I l e
i r peAmb	1- 91				1S2		E
i r peAmb	1- 92				1S4		E
i %w&Amb	2S791	1F- 0	1F- 0	1F- N	1F- 0	SF2N	I l e
i %w&Amb	2S- 91	1F- -	1F- 2	1F- 6	1F- 4	1F2N	I l e
i A5	11N91	SFS4	9SFS2	SFS2	SFS1	24SF- 0	I l e
i A&w5Amb	4091	NF7S	0FN2	0F64	0F 2	4F71	I l e
Rpw5Amb	27N91	1F47	1F46	1F46	1F4-	1F26	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J14aS a14	t w&WJA8 Ju wb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	- 192	NF74	NF- N	NF- 7	NF4N	1F4N	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S-		E
ZA5q	6692	NF S	F41	NF42	NF 1	- F- 0	l l e
ZAqn5Amb	S91	1F41	1F4N	1F40	1F4-	2F61	l l e
ZAqn5Amb	191	1F- -	1F- S	1F47	1F4	7F 0	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1- 896Fh1	1- 0h9F96	1- 2hhF88	1- 69SF08	2F24	l l b
c n&Amon%	12171	SF0-	SF81	SF81	SF0h	9F68	l l b
c rsenAq	0972	28F89	26F98	26F- 6	20F26	9FS6	l l b
BarAum	1- 971	- 0hF4S	- 88F28	- h0F24	- 88F- 1	2F- S	l l b
BarAum	1- 071	- 00F2S	- 86Fhh	- hhFS-	- 80F04	2F82	l l b
Ber%lAum	h71	1F81	1F86	1F08	1F82	2FS4	l l b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	2FS8	- F16	1F0S	2F- 2	- 2F60	l l b
RaOmAum	1S671	7SF91	1FSh	7SF- 2	SFSh	h84F69	l l b
RaOmAum	11171	1F90	1F44	1F90	1F9-	9FSS	l l b
RalqAum	4- 71	1819SF4-	189h- FS4	1h- - 0F60	186h- F01	- F21	l l b
RalqAum	4471	18880F86	1h6- 1FS2	1h4S6F- 2	1h- S8F4S	1Fh0	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22F- 0	22F64	21F2S	22FS0	- F46	l l b
Robal&	9h72	16F98	10FS0	16FS1	16F99	- F2S	l l b
Rol l er	6- 72	09F9h	06F41	01F22	04F41	- F09	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S9		G
y olmAum	16972				1S6		G
DnOAum	11971				1S9		G
DnOAum	11972				1S4		G
Don	9472	4- 2S4Fh-	4- Sh2FSS	4S611F06	42- S2FhS	- F46	l l b
Don	9672	424- 4F48	422S4F80	4S262F41	416- - Fh2	2F80	l l b
Don	9072	42- - 0F6h	42814F20	4S2- 0F00	410h6F90	- F28	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	89F44	89Fh8	88Fh1	86F00	2F19	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	82F4S	8- F9-	84F6S	8- F91	1F- 1	l l b
LeaO	2S871	84F99	89F90	80F14	89F09	1F92	l l b
LA&EAum	671				h-		G
MagnesAum	2472	6691F91	66S4F88	6- 69FS-	694SF40	2F- 9	l l b
Manganese	9972	1S21F61	1S1SF14	h90FS9	hh6F20	- F46	l l b
Mol%bOenum	h471	12F14	12F29	12F99	12F- 1	1F0-	l l b
Mol%bOenum	h971	1F66	1F04	1FB1	1F0-	4F- 0	l l b
Mol%bOenum	h671	2FB4	2FBS	2Fh-	2FB6	2F20	l l b
Mol%bOenum	h071	1F01	1FB9	1F06	1F00	- FB4	l l b
Mol%bOenum	h871	1F08	1F09	1FB1	1F08	1Fh4	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- - F29	- - F10	- 1F22	- 2F94	- F9-	l l b
PEosI Eorus	- 172	- 62SFh2	- 208F4h	- 496F- S	- 491FhS	4Fh6	l l b
Po&assAum	- h72	9- 01FS-	9- 4SF- 8	9S84Fh6	9269F46	2Fh8	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S2		G
pelenAum	8271	2FSh	1F92	1F9h	1F0-	18FS2	l l b
pelenAum	0072	49FB8	- 0F- 1	4- F66	42F28	1SF91	l l b
pelenAum	0872	hF1h	0Fh1	8F- 0	8F4h	0F60	l l b
pAAqon	2871	2- 6FB4	242Fh4	29SFS2	24- F26	2F01	l l b
pAver	1S071	SF- 0	SF- 0	SF- 6	SF- 0	SF- 6	l l b
pAver	1Sh71	SF- 4	SF- 4	SF- h	SF- 6	hF29	l l b
poOAum	2- 72	22SF4h	22- Fh8	2ShFS-	210FB-	- F9h	l l b
p&ona&um	8671	101F40	166F04	16hF64	16hF28	1F41	l l b
p&ona&um	8871	109F- 2	10- F68	108F4S	109FBS	1F- 6	l l b
pulfur	- 471	718SF91	7216F48	7168Fh9	7188F64		l l b
i erbAum	19h71				1S0		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 6	SF- 6	SF- 9	SF- 6	SF69	l l b
i EallAum	2S971	SF- -	SF- 9	SF- 9	SF- 4	- FB2	l l b
i An	11871	1F98	1F62	1F09	1F69	9F- S	l l b
i A&anAum	4071	116F28	12SF- h	124F6S	12SF42	- F46	l l b
UranAum	2- 871	- F29	- F- -	- F42	- F- -	2F98	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	9hFS1	98F49	99F8-	90F06	2Fh4	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S8		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 21F8h	- 21F92	- S2F04	- 19F- h	- F40	l l b
ZAqonAum	hS71	6F11	6FSh	6F- 9	6F18	2F- 9	l l b
ZAqonAum	h171	6F11	6FS2	6FS1	6FS9	SF86	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1- 6S4F14	19S61F84	1- 619F80	14Sh- Fh9	9Fh9	I I b
c n&Amon%	12171	SF82	SF08	SF08	SF8S	- F2-	I I b
c rsenAq	0972	29FhS	- 1F49	29Fh1	20F09	11F9-	I I b
BarAum	1- 971	- h- F- 6	- 6hF26	- h2F96	- 89FS6	- F96	I I b
BarAum	1- 071	- hSF68	- 04F19	4SSF8-	- 88F96	- F40	I I b
Ber%lAum	h71	1F01	1F04	1F0S	1F02	1F11	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	2FS9	2FS9	2F14	2FS8	2F49	I I b
RaOmAum	1S671	1F29	1F82	7SF42	SF88	1- 1F61	I I b
RaOmAum	11171	1F9S	1F46	1F48	1F48	1F- 6	I I b
RalqAum	4- 71	1821SF44	184S- F01	18102F90	18262F24	SF68	I I b
RalqAum	4471	1hS- 6F8S	18614F40	18689F09	1800hFSS	1F2S	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22FS4	24FS4	21F99	22F94	9F89	I I b
Robal&	9h72	16F84	18F02	16F61	10F- h	6F68	I I b
Rol I er	6- 72	02Fh1	81F42	0- F96	09Fh6	6F2-	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1Sh		G
y olmAum	16972				1S9		G
DnOAum	11971				1Sh		G
DnOAum	11972				1S-		G
Don	9472	4126- F- -	46S82F9-	418S0F44	4- S91F1S	6F1-	I I b
Don	9672	41826F18	49- 11F8S	41- h4F- h	42844F12	9FS1	I I b
Don	9072	4268- F49	46- - 2F1h	41614F91	4- 94- F- 8	9F68	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	86F96	89F96	80F60	86F6S	1F22	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	8- F4h	82FB6	84F99	8- F6-	1FS2	l l b
LeaO	2S871	89F01	84F4-	89F0h	89F- 1	SFBh	l l b
LA&EAum	671				h8		G
MagnesAum	2472	694- FB8	02S8F6-	649hF2h	60- 0F20	6FSh	l l b
Manganese	9972	h89FB1	1S8- FB1	hhSFh-	1S2SF18	9F41	l l b
Mol%bOenum	h471	11F04	11F49	11Fh6	11F02	2F21	l l b
Mol%bOenum	h971	1Fh-	1F02	1F00	1FB1	6F12	l l b
Mol%bOenum	h671	2F09	2F01	2FB9	2F00	2F64	l l b
Mol%bOenum	h071	1FB4	1F04	1F66	1F09	9F19	l l b
Mol%bOenum	h871	1F06	1F09	1F00	1F06	SF99	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2F46	- 6F- 8	- 2F60	- - FB-	6F92	l l b
PEosI Eorus	- 172	- 4h4F49	- 8- 4F44	- - 48F96	- 99hF19	0FS1	l l b
Po&assAum	- h72	91h0FBh	9084F64	9169F- 0	9- 82F6-	6F48	l l b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1Sh		G
pqanOAum	4972				1S2		G
pelenAum	8271	1F48	1F9h	1F06	1F61	8FB8	l l b
pelenAum	0072	- 9F- 8	48F6S	4SFB-	41F61	19Fh0	l l b
pelenAum	0872	6FB2	hFh2	6F61	0F08	2- FB-	l l b
pAAqon	2871	2- 9FB-	241F6S	2- SF04	2- 6FS9	2F- S	l l b
pAver	1S071	SF- 0	SF- 4	SF- 0	SF- 6	9F- 2	l l b
pAver	1Sh71	SF41	SF- 0	SF41	SF4S	6F- 8	l l b
poOAum	2- 72	21- F2S	249FB9	212FS9	22- F0S	8F98	l l b
p&ona&um	8671	16- F61	198F16	162F9S	161F4-	1F08	l l b
p&ona&um	8871	101FS4	166F20	10SF21	16hF10	1F91	l l b
pulfur	- 471	7928F- h	762SFhS	78- hF0h	766- FS-		l l b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 0	SF- 2	SF41	SF- 0	12F28	l l b
i EallAum	2S971	SF- 0	SF- 9	SF- 8	SF- 0	4F41	l l b
i An	11871	1F01	1F9h	1F6h	1F60	- FB0	l l b
i A&anAum	4071	119F21	118FBS	116F61	116FB0	1F99	l l b
UranAum	2- 871	- F24	- F2h	- F- 0	- F- S	2FS1	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	96F8-	6- F14	98F- 2	9hF4-	9F94	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 1- F0S	- - 8Fh4	- 12F89	- 21F8-	4F61	l l b
ZAqonAum	hS71	9F0h	9F8-	6FSS	9F80	1F89	l l b
ZAqonAum	h171	6F11	9FhS	6F1-	6FS9	2FS8	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARuminium	23O2	2944.- 4	2974.73	- 1- - .36	- O1O.J9	- .74	ppb
Antimony	12101	O.16	O.1J	O.17	O.16	3.J9	ppb
Arwenic	37O2	6.43	7.3O	6.- 6	6.1J	6.34	ppb
Bsrium	1- 701	34.63	3J.4J	3J.3J	33.- 1	2.96	ppb
Bsrium	1- 301	37.J4	39.39	J1.O6	3J.9O	- .47	ppb
BeryRRum	901	O- 6	O- 2	O.4O	O- 6	1O.J1	ppb
Biwmuth	2O901				1OJ		%
Biwmuth	2O9O2				1O4		%
Bromine	J101						cpw
Csdmium	1OJ01	O- 3	O.2-	O.23	O.29	24.46	ppb
Csdmium	1O601	04.7O	02.12	04.24	0- .62		ppb
Csdmium	11101	O.2J	O- 6	O- 6	O- -	14.- -	ppb
CsRium	4- 01	- 6O6.99	- 912.46	- J77.J2	- 391.36	4.29	ppb
CsRium	4401	- 6OJ.61	- J93.J9	- JJ1.O3	- 397.J6	4.2J	ppb
Csrbon	1201						cpw
Csrbon	12O2						cpw
ChRorine	- 701						cpw
ChRorine	- 7O2						cpw
Chromium	72O2	4.3J	4.67	4.J6	4.36	2.2J	ppb
CobsRR	79O2	- .6O	- .76	- .J3	- .63	4.79	ppb
Copper	6- O2	17.J-	17.J9	16.6J	16.14	2.94	ppb
Dywprowium	1760 1						cpw
Dywprowium	1760 2						cpw
Erbium	1640 1						cpw
Erbium	1640 2						cpw
GsdoRRnium	16O01						cpw
GsdoRRnium	16O02						cpw
HoRRnium	1670 1				1O9		%
HoRRnium	1670 2				1O4		%
Indium	1170 1				1OJ		%
Indium	1170 2				1O-		%
Iron	74O2	J726.2-	J- 1O.77	J9JJ.- -	J6OJ.- 3	4.O2	ppb
Iron	76O2	J9J- .32	J9OJ.24	9- 37.3O	9OJ9.22	2.36	ppb
Iron	73O2	J794.- 2	J2J- .41	J92J.- J	J6O2.O4	- .37	ppb
Krypton	J- 01						cpw
Lesd	2O601	13.- 6	1J.13	1J.3J	1J.1O	- .94	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRition Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.34	13.1-	13.94	13.23	- .76	ppb
Lesd	2OJ01	13.1-	13.6J	1J.2O	13.63	- .O4	ppb
Lithium	601				99		%
Msgnewium	24O2	1- 92.93	1- J6.79	17OJ.6J	1429.41	4.J1	ppb
Msngsnewe	77O2	216.O2	21- .O4	224.1O	213.32	2.6-	ppb
MoRybdenum	9401	2.61	2.62	2.62	2.62	O.26	ppb
MoRybdenum	9701	O.- 7	O.41	O.- 9	O.- J	J.11	ppb
MoRybdenum	9601	O.6O	O.77	O.6O	O.7J	4.41	ppb
MoRybdenum	9301	O.- 9	O.4J	O.4-	O.4-	1O.1-	ppb
MoRybdenum	9J01	O.- 9	O.- 9	O.4-	O.4O	4.32	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	6.39	3.O-	3.46	3.O9	4.33	ppb
8howphoruw	- 102	364.3O	314.O4	J31.94	3J- .76	1O.29	ppb
8otswwium	- 902	1161.42	1OJ6.22	1222.O4	1176.76	7.JJ	ppb
Rhodium	1O- 01				1OJ		%
Rhodium	1O- 02				1O4		%
Scsndium	4701				1O9		%
Scsndium	4702				1O1		%
SeRenium	J201	O.16	O.O3	O.O7	O.1O	73.42	ppb
SeRenium	3302	4.96	3.3J	6.- -	6.- 6	22.19	ppb
SeRenium	3J02	1.- 6	2.13	- .14	2.22	4O.O6	ppb
SiRcon	2J01	43.1J	49.43	49.J3	4J.J4	2.93	ppb
SiRver	1O301	O.O6	O.OJ	O.O3	O.O3	12.66	ppb
SiRver	1O901	O.OJ	O.O3	O.O6	O.O3	17.19	ppb
Sodium	2- 02	36.16	6J.43	J7.3-	36.39	11.26	ppb
Strontium	J601	- 7.- 9	- 6.- 3	- 6.73	- 6.11	1.34	ppb
Strontium	JJ01	- 4.22	- 7.JJ	- 7.2J	- 7.1-	2.- 9	ppb
SuRur	- 401	021- 9.1-	01462.74	01391.J-	01393.J-		ppb
Terbium	17901				11O		%
Terbium	17902				1O4		%
ThsRium	2O- 01	O.17	O.14	O.1-	O.14	6.49	ppb
ThsRium	2O701	O.14	O.1-	O.14	O.14	7.JO	ppb
Tin	11J01	O.- 1	O.- 2	O.- 4	O.- 2	7.J2	ppb
Titsnium	4301	2- .66	27.- -	26.O1	27.OO	4.J-	ppb
Ursnium	2- J01	O.67	O.66	O.66	O.66	1.OJ	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	12.- 4	12.2O	1- .1O	12.77	- .J9	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1OJ		%
Yttrium	J90l2				1O6		%
Zinc	660l2	63.- 1	67.- 4	31.76	6J.O3	4.63	ppb
Zirconium	9O0l	1.2O	1.26	1.- O	1.27	- .67	ppb
Zirconium	910l	1.11	1.- -	1.41	1.2J	12.O9	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14401.P2	14- - 4.Sy	14y14.0P	14h0- .h6	2.SP	ppm
Aotiu Oo%	12171	1P.6h	24.P-	1P.- S	2S.hy	10.Ph	ppm
Aeaboic	0h72	- 4.S-	- 4.Sh	- h.10	- 4.42	1.Py	ppm
BJeiNu	1- h71	0P- .PP	1S6h.2P	006.- P	P0h.1P	1P.P2	ppm
BJeiNu	1- 071	P- 1.26	1Syy.01	P- S.6P	y2S.hh	16.Ph	ppm
Bbe%wiNu	y71	11.0S	14.yh	11.P1	12.P2	14.41	ppm
Biau NtE	2Sy71				1S1		G
Biau NtE	2Sy72				1S0		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1S.SS	12.yS	1S.S1	1S.y0	1h.2h	ppm
UJdu iNu	1S671	P.h-	12.24	0.PP	y.hh	24.61	ppm
UJdu iNu	11171	11.21	1h.42	11.16	12.6S	1y.42	ppm
UJwiNu	4- 71	1Phy2.P4	2h1hP.P0	1y6S4.S2	2111P.hP	16.04	ppm
UJwiNu	4471	1yh26.h2	2hP00.P4	1yP4P.6-	210h1.SS	16.4h	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	61.PS	62.2S	6h.SS	6- .SS	2.00	ppm
UOmJwv	hy72	11P.- 1	11P.- S	12- .04	12S.11	2.61	ppm
UOppbe	6- 72	126.hh	12h.41	1- S.P4	120.6S	2.2h	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5 emiNu	16471						cpa
5 emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S2		G
MOw iNu	16h72				11S		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S0		G
IeOo	h472	4261h.hS	4- - - P.12	4- yP4.64	4- - 12.0h	1.hP	ppm
IeOo	h672	41Py0.yP	4- S- S.- h	4- y4y.12	42yhy.1h	2.- y	ppm
IeOo	h072	42S- h.44	42P24.P1	440- 2.4y	4- 1y0.hP	- .21	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	yh.16	12S.10	y4.yS	1S- .41	14.S-	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	y1.hh	116.1-	y2.S2	yy.yS	14.S0	ppm
LbJd	2SP71	y- .04	110.y-	y- .2S	1S1.62	1- .yS	ppm
LitEiNu	671				yh		G
g JvobaiNu	2472	664P.0S	60- 6.- 2	606y.0S	601P.24	S.y-	ppm
g JovJobab	hh72	11S4.S2	1Syh.4P	1122.P4	11S0.4h	1.26	ppm
g O%mdboNu	y471	11.42	14.0S	12.16	12.06	1- .4P	ppm
g O%mdboNu	yh71	1.01	2.26	1.6y	1.Py	10.- 4	ppm
g O%mdboNu	y671	2.0P	- .- P	2.0S	2.y6	12.40	ppm
g O%mdboNu	y071	1.hy	2.14	1.6S	1.0P	10.h2	ppm
g O%mdboNu	yP71	1.6P	2.11	1.6-	1.P1	14.0h	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	142.0S	142.0-	146.22	14- .PP	1.41	ppm
I EOapEOeNa	- 172	- h4h.yy	- h10.S2	- 0Sh.y-	- hPy.64	2.P-	ppm
I OtJaaiNu	- y72	h- 66.04	h- 6y.S6	hh60.2S	h4- 4.- -	2.12	ppm
n EOdiNu	1S- 71				yy		G
n EOdiNu	1S- 72				1SP		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S6		G
r bwboiNu	P271	1y.h0	2h.- 0	1y.yS	21.61	1h.S0	ppm
r bwboiNu	0072	h0.SS	4y.S1	6y.h6	hP.h2	10.0S	ppm
r bwboiNu	0P72	2h.14	20.- 2	20.yP	26.P1	h.hh	ppm
r iwcOo	2P71	26S.2y	- - 1.41	262.21	2P4.64	14.2-	ppm
r iwRbe	1S071	P.hh	11.61	P.66	y.61	1P.S0	ppm
r iwRbe	1Sy71	P.hh	11.- 0	P.h-	y.4P	10.21	ppm
r OdiNu	2- 72	26S.0h	261.26	26y.- 2	26- .0P	1.P2	ppm
r teOotiNu	P671	164.- 1	221.1h	101.y2	1Ph.0y	16.61	ppm
r teOotiNu	PP71	101.S4	22P.22	1PS.y6	1y- .41	1h.PS	ppm
r NwNe	- 471	71S62.1y	224S.4h	702- .Py	1h1.46	11yy.6P	ppm
TbemiNu	1hy71				1S2		G
TbemiNu	1hy72				1SP		G
TEJwiNu	2S- 71	P.P-	11.16	P.P4	y.61	1- .y6	ppm
TEJwiNu	2Sh71	P.P0	11.1S	P.y4	y.64	1- .1P	ppm
Tio	11P71	1.y0	2.P6	2.S1	2.2P	21.P2	ppm
TitJoiNu	4071	112.hy	140.16	114.- y	124.01	1h.61	ppm
F eJoiNu	2- P71	- .44	4.- 2	- .44	- .0-	1- .hh	ppm

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Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	161.SP	162.- 1	160.S1	16- .40	1.y1	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1S0		G
YtteiNu	Py72				11y		G
Zioc	6672	42y.- y	42h.y2	4- 6.S0	4- S.46	1.2S	ppm
ZiecOoiNu	yS71	h.06	0.0S	6.1S	6.h2	1h.Ph	ppm
ZiecOoiNu	y171	h.Ph	0.4P	h.y6	6.4-	14.10	ppm

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	16849F- S	148h0F21	16289F92	1h998F81	6F42	I I b
c n&Amon%	12171	SFh-	SF49	SF46	SF49	0F- S	I I b
c rsenAq	0h72	- 1F20	29F29	29Fh1	- SFS-	- F61	I I b
BarAum	1- h71	6S6F86	h22F4S	hS4F89	h44F02	1SFS1	I I b
BarAum	1- 071	618F64	h28F6h	h14F88	hh4FS6	1SF10	I I b
Ber%lAum	971	2F22	2FS4	1F9-	2FS6	0F12	I I b
BAsmu&E	2S971				1S-		G
BAsmu&E	2S972				112		G
BromAne	8171						ql s
RaOmAum	1S871	1F62	1Fh1	1F0-	1F62	6F0h	I I b
RaOmAum	1S671	71F8h	1F48	71F28	7SFhh		I I b
RaOmAum	11171	1F69	1F- 2	1F2-	1F41	10F19	I I b
RalqAum	4- 71	220- hF28	19494FS9	19140F16	2S4h8F84	9F60	I I b
RalqAum	4471	2- 662F0h	2S24- F12	19h94F18	21166F68	1SF- -	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	- SF98	20F69	29Fh8	29F42	hF62	I I b
Robal&	h972	2- F9-	21FSh	2- F41	22F09	6F04	I I b
RoI I er	6- 72	68Fhh	61F20	60FS-	6hF61	hF8h	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S4		G
y olmAum	16h72				11-		G
DnOAum	11h71				1S2		G
DnOAum	11h72				11S		G
Don	h472	h46- 8F0-	48904F84	h261hF- 2	h2S06F- S	hFh1	I I b
Don	h672	h- 6- 1F88	48488F48	h2S90F06	h14S6FS4	hF14	I I b
Don	h072	hh641F11	4096- F08	h2860F2h	h21h0F- 8	0F4h	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S4F0-	89FSh	88F8-	94F2S	9F68	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	98F2-	84F92	8hF11	89F42	8Fh-	I I b
LeaO	2S871	1S1Fh1	80F22	86F88	91F80	9FS9	I I b
LA&EAum	671				96		G
MagnesAum	2472	0h88F96	6684F66	0- 04F9h	0216F19	6Fhh	I I b
Manganese	hh72	1112F99	1SShF- 9	1S6SF22	1Sh9Fh-	hFS8	I I b
Mol%bOenum	9471	1SF82	8F84	9FhS	9F02	1SF- 8	I I b
Mol%bOenum	9h71	2F12	1F01	1F08	1F80	11F80	I I b
Mol%bOenum	9671	2F99	2Fh2	2F6-	2F01	8F96	I I b
Mol%bOenum	9071	2F2h	1F6S	1F00	1F80	10F92	I I b
Mol%bOenum	9871	2FS8	1F06	1F09	1F88	9F48	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	49F00	4- F99	40F04	40F10	6F22	I I b
PEosI Eorus	- 172	- - 19FSS	2886F89	- 194F4-	- 1- - F44	0F1S	I I b
Po&assAum	- 972	4SShF48	- h- - F42	- 862F80	- 8SSFh9	6F- 0	I I b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				112		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S9		G
pelenAum	8271	2F40	1F- 6	1F01	1F84	- SF0h	I I b
pelenAum	0072	4SF- 2	4- Fh4	2hF44	- 6F4-	26FhS	I I b
pelenAum	0872	1SF10	9F- 1	8F18	9F22	1SF84	I I b
pAAqon	2871	- 28F4-	282F80	28- F- -	298F21	8F08	I I b
pAver	1S071	SF40	SF40	SF4S	SF4h	8F69	I I b
pAver	1S971	SFh1	SF41	SF4h	SF4h	1SF08	I I b
poOAum	2- 72	42SF61	- h6F80	4S2F11	- 9- F2S	8F- 4	I I b
p&on&Aum	8671	212FSh	182F81	18hF61	19- F49	8F- 4	I I b
p&on&Aum	8871	21- F10	19SFh0	19SF19	190F98	6F6h	I I b
pulfur	- 471	7100Fh2	71h99F0-	716h8F18	7114hF14		I I b
i erbAum	1h971				1S2		G
i erbAum	1h972				111		G
i EallAum	2S- 71	SFh2	SF- 9	SF4h	SF4h	14F08	I I b
i EallAum	2Sh71	SFhS	SF4-	SF4h	SF46	8F- 8	I I b
i An	11871	1F88	1F62	1Fh0	1F69	9Fhh	I I b
i A&anAum	4071	94F88	82FS9	8SFS-	8hF60	9F- 9	I I b
UranAum	2- 871	4F8h	4F21	4F24	4F4-	8FS6	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	h172	0- F1h	6hF92	01FS4	0SFS-	hF- 1	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				1S9		G
Y&&Aum	8972				122		G
ZAnq	6672	29SFS6	2h4F61	20- Fh2	202F0-	6FhS	l l b
ZAqonAum	9S71	hF19	4Fh6	4Fhh	4F00	0F01	l l b
ZAqonAum	9171	hF- 6	4F46	4F- -	4F02	11F9-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJv onqU	v onqCpt	Rn&w
cRmAAm	2072	146 SU0J	14246U 1	1441JUS2	144- JU44	1U41	l l b
cn&mon%	12171	SUJ 1	SU0	SU05	SU0J	- UJ 1	l l b
crwenAq	0 72	4SU66	- JUJ 1	- JU64	- 5U2S	- U2-	l l b
BsrAm	1- 71	- J6UJ0	- 54U6	- J5U25	- 5SU20	1US2	l l b
BsrAm	1- 071	- 51U2	- 5JUS0	- 54UJ-	- 54U02	SUJ6	l l b
Ber%BAm	571	2U1S	2U1S	2US5	2U1S	SUJ 2	l l b
BAmu&E	2S571				1SJ		G
BAmu&E	2S572				1S5		G
BromAe	J171						ql w
v sOmAm	1SJ71	1UJ4	1U50	1UJ0	1UJ5	- U45	l l b
v sOmAm	1S671	2US5	1U44	7SU0-	SU5-	1 JUJ	l l b
v sOmAm	11171	1U6	1U-	1U	1UJ	4U15	l l b
v sRqAm	4- 71	4120 U40	41 2SU14	410 1U16	41 1 U5	SU0	l l b
v sRqAm	4471	42J15U41	4242- UJ	421S- USJ	4244JU62	SUJ	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAe	- 71						ql w
v ERrAe	- 72						ql w
v EromAm	272	- - U14	- 2U22	- - U1	- 2UJ4	1U62	l l b
v obsR&	572	2SU0	2SU1J	2SUJ	2SU4-	1U44	l l b
v ol l er	6- 72	JUSS	0U1S	0U62	0UJ	SU05	l l b
t %wl rowAm	1 671						ql w
t %wl rowAm	1 672						ql w
. rbAm	16471						ql w
. rbAm	16472						ql w
HsOoRAm	16S71						ql w
HsOoRAm	16S72						ql w
hoRmAm	16 71				1S5		G
hoRmAm	16 72				11S		G
DrOAm	11 71				1S		G
DrOAm	11 72				1S0		G
Don	472	4- 20- US	425- U05	4- 650UJ	4- - S2US0	SUJJ	l l b
Don	672	4- S20US6	42 55U-	425- US1	42J - UJ0	SU-	l l b
Don	072	44S22U6	4- 6 4UJ0	42J- 4U60	4- S- U5S	1U4S	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	6JU4	65US1	6JU11	6JU2	SU66	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:1492209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	6 U05	6 U64	64U6-	6 U6	SU56	I I b
LesO	2SJ71	60U1J	66U52	66U54	60US1	SU22	I I b
LA&EAm	671				55		G
y sMnewAm	2472	12 JJU24	12126U21	12154U64	12- S- US-	2US-	I I b
y snMsnewe	72	21- 6U44	2S 5UJ	216 U50	212SU0	2U J	I I b
y oP%bOenum	5471	0UJ	0U56	JU26	JUS2	2U65	I I b
y oP%bOenum	5 71	- U52	- U5	4U2	4US4	4U46	I I b
y oP%bOenum	5671	4U45	4U-4	4U4	4U4-	1U01	I I b
y oP%bOenum	5071	4U16	4U26	4US	4U1	2U 2	I I b
y oP%bOenum	5J71	- U52	- UJ J	4U15	4USS	4U2S	I I b
NeoO%mAm	1 S71						ql w
NeoO%mAm	1 S72						ql w
NAqkeP	6S72	44US6	4- U4J	4- U60	4- U0-	SU6J	I I b
8 EowI Eoruw	- 172	- 515U50	- 04JU-1	- 5S0U0	- J JU6J	2U4J	I I b
8 o&swwAm	- 572	J- 5U0J	665U65	5- 5U01	J16U4S	2U-	I I b
CEoOAm	1S- 71				1S6		G
CEoOAm	1S- 72				1S5		G
pqsnOAm	4 71				1S6		G
pqsnOAm	4 72				1S6		G
pe?enAm	J271	2U21	2US1	2U10	2U1-	US6	I I b
pe?enAm	0072	44UJ0	4U24	40U62	4JU51	5UJ6	I I b
pe?enAm	0J72	1SU-S	JU5S	5U-J	5U 2	0U4J	I I b
pAqon	2J71	2 6US4	2 U6	261U2	2 0U61	1U2-	I I b
pA?ger	1S071	SU4J	SU40	SU45	SU4J	2U50	I I b
pA?ger	1S571	SU S	SU 1	SU46	SU45	U45	I I b
poOAm	2- 72	- 6JU55	- 4U4S	- 6SU	- 61U-1	2US-	I I b
p&ona&Am	J671	1J2U56	1J1U-	1J5U05	1J4U0S	2U4-	I I b
p&ona&Am	JJ71	151U25	1J6UJ6	15SU22	1J5U46	1U22	I I b
pu?ur	- 471	2454U42	26- - U2	2J1 U62	2640UJ	6USJ	I I b
i erbAm	1 571				1S5		G
i erbAm	1 572				111		G
i EsP?Am	2S- 71	SU4	SU4	SU46	SU4	1U2J	I I b
i EsP?Am	2S 71	SU40	SU44	SU4	SU4	- U S	I I b
i A	11J71	1SU60	1SU6-	1SU04	1SU6J	SU	I I b
i A&snAm	4071	141U S	141UJ1	144US0	142U46	SU55	I I b
RrsnAm	2- J71	U6	U4-	U40	U2	2U1-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	0SU66	65U-J	0SUSJ	0SUS4	SU52	I I b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				11		G
Y&&Aum	J572				121		G
ZAnq	6672	- 02U2-	- 60U2	- 04U52	- 01U40	1US	I I b
ZAqonAum	5S71	2U	2U -	2U06	2U62	4U54	I I b
ZAqonAum	5171	2U0-	2U0S	2U6J	2U01	SU51	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	yy16.S1	y640.11	yhP1.0y	y014.y0	1.P2	ppm
Aotiu Oo%	12171	S.PS	S.06	S.0y	S.0P	2.0P	ppm
Aeaboic	0h72	2y.S-	2P.S6	20.1P	2P.Sy	- .- 1	ppm
BJeiNu	1- h71	204.- P	24y.- 1	240.PP	2h0.1y	h.PS	ppm
BJeiNu	1- 071	20y.1P	24y.14	2hS.yh	2hy.06	6.4P	ppm
Bbe%wiNu	y71	1.61	1.hh	1.h0	1.hP	1.04	ppm
Biau NtE	2Sy71				1S6		G
Biau NtE	2Sy72				1SP		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6h	1.y1	1.y1	1.P2	P.2h	ppm
UJdu iNu	1S671	S.PP	S.2-	1.2-	S.0P	64.61	ppm
UJdu iNu	11171	1.y1	1.60	1.hP	1.02	1S.S6	ppm
UJwiNu	4- 71	4214h.Sy	- P624.61	- PhS1.S0	- y0h6.y2	h.2S	ppm
UJwiNu	4471	42yS- .y1	- y2- 0.yy	4SPhy.P6	41SSS.hy	4.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	22.11	21.h6	21.Sh	21.h0	2.44	ppm
UOmJw	hy72	12.00	12.S1	12.1-	12.- S	- .- -	ppm
UOppbe	6- 72	- 6.6h	- h.yP	- h.y-	- 6.1y	1.1S	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sy		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				1Sh		G
IeOo	h472	- 1SPS.2-	- 11Py.4-	- Sh16.h0	- Sy2P.04	1.10	ppm
IeOo	h672	- SPhP.- 4	- SS6S.yS	2yy40.y4	- S2Py.S6	1.64	ppm
IeOo	h072	2PyyS.6-	2P2- P.11	2P2Ph.S6	2PhS4.6S	1.4P	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	44.62	41.- 4	41.S6	42.- 4	4.6P	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	42.0h	- P.hh	- y.Py	4S.4S	h.- 1	ppm
LbJd	2SP71	4- .4h	- y.yS	4S.yy	41.4h	4.- y	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	121P4.44	12SS- .21	11y2y.- y	12S- y.S1	1.Sy	ppm
g JovJobab	hh72	1- h- .SP	1- 22.44	1- 1S.PP	1- 2P.PS	1.64	ppm
g O%mdboNu	y471	0.62	0.20	0.2S	0.- 6	- .1-	ppm
g O%mdboNu	yh71	4.0-	4.h2	4.- 6	4.h4	4.S-	ppm
g O%mdboNu	y671	4.yP	4.6y	4.0h	4.P1	- .11	ppm
g O%mdboNu	y071	4.y1	4.0y	4.hh	4.0h	- .P6	ppm
g O%mdboNu	yP71	4.0S	4.h1	4.42	4.hh	- .Sy	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	2y.4P	2P.SP	2P.1y	2P.hy	2.01	ppm
I EOapEOeNa	- 172	2y6y.46	26S0.S4	2PP- .0P	2P2S.Sy	6.02	ppm
I OtJaaiNu	- y72	- 6P2.h-	- h- - .P1	- h- P.y6	- hPh.1S	2.- h	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1Sh		G
r cJodiNu	4h71				1S6		G
r cJodiNu	4h72				1S2		G
r bwboiNu	P271	1.P4	1.P2	1.hP	1.04	P.1y	ppm
r bwboiNu	0072	2P.h-	- 4.hh	- 2.hy	- 1.Py	y.62	ppm
r bwboiNu	0P72	1S.S-	P.hy	0.y6	P.P6	11.y6	ppm
r iwcOo	2P71	1PP.SS	106.S6	104.yh	10y.60	4.S-	ppm
r iwRbe	1S071	S.41	S.42	S.4-	S.42	2.4y	ppm
r iwRbe	1Sy71	S.46	S.- P	S.42	S.42	y.yS	ppm
r OdiNu	2- 72	- P1.y4	- 60.P1	- 6S.y4	- 0S.2-	2.Py	ppm
r teOotiNu	P671	12y.1-	11y.0P	11P.01	122.h4	4.6P	ppm
r teOotiNu	PP71	1- 4.hS	124.2P	126.h0	12P.4h	4.10	ppm
r NwNe	- 471	1S06.- 6	20h.41	214.1S	h21.y6	y2.10	ppm
TbemiNu	1hy71				1S6		G
TbemiNu	1hy72				1Sy		G
TEJwiNu	2S- 71	S.- 6	S.2y	S.2y	S.- 1	12.- -	ppm
TEJwiNu	2Sh71	S.- 2	S.- 4	S.- 2	S.- -	- .4S	ppm
Tio	11P71	1.y2	1.6-	1.P1	1.0y	P.2S	ppm
TitJoiNu	4071	124.21	114.21	116.- -	11P.2h	4.46	ppm
F eJoiNu	2- P71	- .P-	- .hS	- .h6	- .6-	4.Py	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	4h.21	44.10	44.4h	44.61	1.21	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				111		G
YtteiNu	Py72				116		G
Zioc	6672	- 0- .1y	- 02.- S	- 0S.2h	- 01.y2	S.41	ppm
ZiecOoiNu	yS71	2.14	2.S4	2.SP	2.SP	2.4-	ppm
ZiecOoiNu	y171	2.2S	1.P6	2.S-	2.S-	P.4-	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14yy- .60	1h1- P.2S	1h14- .Sy	1hSy1.6h	S.h6	ppm
Aotiu Oo%	12171	1.4S	1.2P	1.2S	1.2y	0.y6	ppm
Aeaboic	0h72	60.P4	6y.40	6P.0S	6P.60	1.1y	ppm
BJeiNu	1- h71	4Py.40	422.- 1	4S1.10	4- 0.6h	1S.h4	ppm
BJeiNu	1- 071	4y0.y0	41P.64	4S6.14	44S.y2	11.- S	ppm
Bbe%wiNu	y71	2.- S	2.SS	1.yP	2.1S	P.6-	ppm
Biau NtE	2Sy71				1S4		G
Biau NtE	2Sy72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.64	2.S2	2.4h	2.- 0	1- .- y	ppm
UJdu iNu	1S671	S.- y	1.1h	S.0-	S.06	hS.S2	ppm
UJdu iNu	11171	- .1-	2.0-	2.- y	2.0h	1- .4-	ppm
UJwiNu	4- 71	106- y.- -	14h0h.2y	1- y6P.6y	1h- y4.4-	12.0P	ppm
UJwiNu	4471	1P21h.hP	14044.1P	14- 6S.02	1h00- .hS	1- .46	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOaiob	- h71						cpa
UEwOaiob	- h72						cpa
UEeOu iNu	h272	21.y1	22.S-	21.01	21.PP	S.0-	ppm
UOmJw	hy72	1- .- 4	1- .P2	1- .- -	1- .hS	2.S6	ppm
UOppbe	6- 72	40.00	4P.1-	4P.1P	4P.S2	S.40	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5 emiNu	16471						cpa
5 emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S4		G
MOw iNu	16h72				1S0		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S-		G
IeOo	h472	- hS1y.hh	- h61h.2h	- h1- 4.- y	- h2h6.4S	S.yS	ppm
IeOo	h672	- 460S.6P	- hSy4.y0	- - y1S.P0	- 4hhP.P4	1.04	ppm
IeOo	h072	- 21h6.yP	- 266h.0P	- 2- 1h.- S	- 2- 0y.- h	S.PS	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21- .P1	1P6.- 0	106.P-	1y2.- 4	y.yP	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	2S- .00	10- .0y	10- .h4	1P- .0S	y.46	ppm
LbJd	2SP71	21y.h1	1P4.Py	1P1.yh	1yh.4h	1S.6y	ppm
LitEiNu	671				y0		G
g JvobaiNu	2472	hy26.Ph	hy10.0h	hPS- .6S	hPP2.0-	1.10	ppm
g JovJobab	hh72	12P- .h-	12y2.1y	1204.SS	12P- .24	S.01	ppm
g O%mdboNu	y471	y.SS	0.60	6.06	0.P1	14.46	ppm
g O%mdboNu	yh71	- .y0	- .1S	- .S1	- .- 6	1h.04	ppm
g O%mdboNu	y671	4.4S	- .4h	- .- 6	- .04	1h.- 6	ppm
g O%mdboNu	y071	- .h6	- .- y	- .S1	- .- 2	P.h1	ppm
g O%mdboNu	yP71	- .01	- .24	- .1-	- .- 6	y.S6	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.h2	20.6-	20.2P	20.4P	S.60	ppm
I EOapEOeNa	- 172	266h.4S	2P1S.hP	26- 6.h1	20S4.16	- .4h	ppm
I OtJaaiNu	- y72	hy41.6-	6S2P.1y	6S4S.61	6SS- .4P	S.yS	ppm
n EOdiNu	1S- 71				1S1		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S-		G
r bwboiNu	P271	1.46	S.01	1.14	1.1S	- 4.20	ppm
r bwboiNu	0072	46.4y	40.4-	44.4-	46.12	- .- -	ppm
r bwboiNu	0P72	P.20	6.00	0.2S	0.41	1S.46	ppm
r iwcOo	2P71	2Ph.4-	2- 1.00	22S.h2	24h.y1	14.11	ppm
r iwRbe	1S071	1.- 6	1.14	1.12	1.21	11.S-	ppm
r iwRbe	1Sy71	1.- 4	1.1y	1.12	1.21	P.yy	ppm
r OdiNu	2- 72	220.y1	2- 2.y-	2- 2.01	2- 1.1P	1.2-	ppm
r teOotiNu	P671	120.P0	1S6.24	1S1.- 0	111.P-	12.62	ppm
r teOotiNu	PP71	1- 1.62	11S.hS	1Sh.41	11h.Ph	12.SS	ppm
r NwNe	- 471	12hh.40	71S02.14	71h10.PS	7444.P2		ppm
TbemiNu	1hy71				1Sh		G
TbemiNu	1hy72				1S6		G
TEJwiNu	2S- 71	S.h2	S.40	S.40	S.4y	6.S2	ppm
TEJwiNu	2Sh71	S.h-	S.46	S.46	S.4P	P.26	ppm
Tio	11P71	0.2y	6.- -	6.Sy	6.h0	y.62	ppm
TitJoiNu	4071	221.41	1P- .60	104.22	1y- .1S	12.y-	ppm
FeJoiNu	2- P71	- .64	- .16	- .Sy	- .- S	y.2S	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	62.h0	6- .Sy	62.- h	62.60	S.61	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				116		G
Zioc	6672	- hy.SP	- 6h.02	- 6h.- P	- 6- .- y	1.S-	ppm
ZiecOoiNu	yS71	- .2h	2.0P	2.hP	2.P0	12.Sh	ppm
ZiecOoiNu	y171	- .2P	2.60	2.02	2.Py	11.0y	ppm

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Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149 J9Ja	&wTwFd8 :uwb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMb:v n5dU	v n5dCl &	R5dT
q8mb c5cmb	2072	1S602U2-	1SJ0 U6-	1S606U0S	1S642UJ2	SUJ2	DDe
q5Tb n5%	12171	SU0	SUa2	SU 0	SU J	UJ1	DDe
qpl r 5cd	0J72	J U6	JaU2S	J U06	J Ua4	SUJa	DDe
Bwpcmb	1- J71	206UJ-	2 2U26	2 6USS6	2 1UJJ	1U04	DDe
Bwpcmb	1- 071	20- USS1	2 JU0J	2 1U 1	2 SU1a	2UJ-	DDe
Br p%8cmb	a71	1UJa	1U4-	1U4J	1U4-	2U2a	DDe
Bdb mTE	2Sa71				1S		G
Bdb mTE	2Sa72				1S6		G
Bpmb c5r	171						dDl
v wob cmb	1S 71	2US0	2US1	2USS6	2USJ	1U62	DDe
v wob cmb	1S671	SU2S	7SU20	1U0-	SUJJ	1 aUS0	DDe
v wob cmb	11171	1Ua	2US-	1Uaa	2USS	1U22	DDe
v w8dcmb	4- 71	aJ- 6UJJ	a466U 1	a6 JUS0	aJ62U 1	1U10	DDe
v w8dcmb	4471	1SSS- U4	aa1SUa2	1S2- UJ-	1SSJSUa	1U6	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpc5r	- J71						dDl
v E8hpc5r	- J72						dDl
v Epmb cmb	J272	16UJ4	16UJ-	16UJS	16UJ2	SU14	DDe
v new8T	Ja72	aUaS	aU40	aU6a	aU6a	2U2S	DDe
v nDDr p	6- 72	- aU -	- aUaa	- aUa2	- aUa1	SU1a	DDe
&%Dpnl cmb	1J671						dDl
&%Dpnl cmb	1J672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16J71				1Sa		G
h n8b cmb	16J72				1S0		G
t5ocmb	11J71				1S		G
t5ocmb	11J72				1S4		G
tpm5	J472	26- 44U6	26Sa1UJ0	26J0SU41	26- - JUJJ	SUa1	DDe
tpm5	J672	26- 22U4S	2JJ6aUSS	26- - - U2J	26S04U	1U6	DDe
tpm5	J072	242 JU16	24S1JUJ2	24- SU24	24226Ua1	SU0	DDe
Kp%DTn5	- 71						dDl
Lr wo	2S671	1J6U61	1JaU26	162U14	1JaUJ4	1U04	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149-J9Ja	&wTwFd8 :uwb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S071	1J- U0	1J- U11	1J6UJ	1J4UJ2	1U1	DDe
Lr wo	2S 71	16- UJS	16JUa1	166UJ4	16JU2J	SUa-	DDe
LdEcmb	671				1SS		G
y wW5r l cmb	2472	422SU2	41J- UJ	41 1UJS	41 JU14	SUJS	DDe
y w5Mw5r l r	JJ72	4SUaa	2aU01	4SU2S	- 6Ua6	SU0J	DDe
y n8%eor 5mb	a471	4U44	4UJ0	4UJ4	4UJ2	1UJ2	DDe
y n8%eor 5mb	aJ71	1Ua6	2USS	1Ua	1Ua	SUaa	DDe
y n8%eor 5mb	a671	2UJ J	2UJ2	2U41	2UJ6	2US-	DDe
y n8%eor 5mb	a071	2U10	2U14	2USJ	2U12	- US-	DDe
y n8%eor 5mb	a 71	2USJ	1Ua6	2US	2US-	- US	DDe
u r no%b cmb	1JS71						dDl
u r no%b cmb	1JS72						dDl
u cdkr 8	6S72	21U1J	2SU2	1aUaS	2SU62	- U1J	DDe
NEnl DEnpm	- 172	1J4aUJS	1641Ua2	1J11U4S	1J60U61	4U2	DDe
NnTwl cmb	- a72	- J1- UJ	- 4aSU22	- 410UaS	- 40- U2	1U4-	DDe
CEnocmb	1S- 71				1S		G
CEnocmb	1S- 72				1S6		G
l dw5ocmb	4J71				1Sa		G
l dw5ocmb	4J72				1S2		G
l r 8 5cmb	271	1US1	SU-	SUJ6	SUJS	2 U1S	DDe
l r 8 5cmb	0072	41UJa	4SUSS	64U0S	4 U06	2 UJ J	DDe
l r 8 5cmb	0 72	6USJ	aU6J	aU12	U20	2- U4	DDe
l c8dn5	2 71	21SU1	2SaUa4	21- U04	211U2a	1US1	DDe
l c8gr p	1S071	SU0J	SU6a	SU06	SU04	JUS	DDe
l c8gr p	1Sa71	SU0-	SU02	SU02	SU02	SU1	DDe
l nocmb	2- 72	2- 2UJ2	2- 0U6J	241U61	2- 0U1a	1Ua6	DDe
l Tpm5Tcmb	671	6- UJS	64UJa	6JUa0	64UJJ	2US	DDe
l Tpm5Tcmb	71	64U6S	64USa	64UaS	64UJ-	SU6-	DDe
l m8mp	- 471	72Sa- U01	72- 6- UJ0	72S- U12	7216JU1-		DDe
Ar pecmb	1Ja71				1Sa		G
Ar pecmb	1Ja72				1S0		G
AEw8cmb	2S- 71	SUJ-	SUJ4	SUJJ	SUJ4	- U60	DDe
AEw8cmb	2SJ71	SUJ4	SUJJ	SUJ	SUJ6	JUJ-	DDe
Ac5	11 71	- UJS	- UJ	- UJ	- UJJ	1UJ6	DDe
AcTw5cmb	4071	121USS	116UJ-	12SUJS	11aU44	2U12	DDe
Rpw5cmb	2- 71	2USS2	2USJ	2US6	2USS4	1U22	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9Ja	&wTwFd8 :u wb r :9	S42q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J172	4- U1	42Ua2	4- U46	4- U1	SU62	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	a71				11-		G
YTTpcmb	a72				11J		G
Zc5d	6672	24 U0S	240U6a	24aUSJ	24 U4	SU2	DDe
Zqcdn5cmb	aS71	1UJ0	1U S	1U0J	1U01	0U12	DDe
Zqcdn5cmb	a171	1U0S	1U6S	1U0J	1U6	4UJa	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :uwb r :9	S4- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb c5cmb	2072	1- 660UJ1	1- 6 2U6	1- 0J1U42	1- 01- UJ6	SU44	DDe
q5Tb n5%	12171	SU1	SU1	SU6	SU-	JUSS	DDe
qpl r 5cd	0a72	12U14	12U11	11UaS	11U2	- US4	DDe
Bwpcmb	1- a71	- 21U0	- 2SU12	- 20UaS	- 2- U2S	1U1	DDe
Bwpcmb	1- 071	- 1JU2J	- 2- U2-	- 2aU6	- 22U2	1U1-	DDe
Br p%8cmb	71	1UJ	2USa	1UJ	1U0	4U14	DDe
Bdb mTE	2S 71				1SJ		G
Bdb mTE	2S 72				1S4		G
Bpmb c5r	J171						dDl
v wob cmb	1SJ71	1UaS	SU4	1US6	1U10	2aU4S	DDe
v wob cmb	1S671	7SU26	72U21	71U0-	71U4S		DDe
v wob cmb	11171	1US1	SUJJ	1USS	SU6	0Ua2	DDe
v w8dcmb	4- 71	144SaUa-	1461 U20	14641U0	14aaaUa	SUS	DDe
v w8dcmb	4471	14 62U44	1a1- 0U41	14 a0U10	1aS1 US1	SU6J	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpc5r	- a71						dDl
v E8hpc5r	- a72						dDl
v Epmb cmb	a272	1aU40	14UJ	1aUJ6	1aU41	- U10	DDe
v new8T	a 72	U44	JU-	U62	UJ-	- UJS	DDe
v nDDr p	6- 72	2- U40	2- UaJ	2- U61	2- Uaa	SUJ-	DDe
&%Dpnl cmb	1a671						dDl
&%Dpnl cmb	1a672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16a71				1SJ		G
h n8b cmb	16a72				1S-		G
t5ocmb	11a71				1S6		G
t5ocmb	11a72				1SS		G
tpn5	a472	21 a U1a	2146 UJ2	221J6Uaa	21J01UJ4	1U60	DDe
tpn5	a672	21424U00	21Sa0UJJ	21024U0	214S2Ua4	1Ua6	DDe
tpn5	a072	1 11U2J	2S14 US0	2S- 04U6S	2S144UJ	1U1a	DDe
Kp%DTn5	J- 71						dDl
Lr wo	2S671	a U41	aJU-	aJU-S	aJU0S	1USa	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&c8mTcn5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFc8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMb:v n5dU	v n5dCl &	R5cT
Lr wo	2S071	a6U0	a4U2-	a6U2J	aaU00	2U4-	DDe
Lr wo	2SJ71	a0U -	a6U2	a0UJ-	a0U6	1Ua0	DDe
LcTEcmb	671						G
y wW5r l cmb	2472	4aS2USJ	4aS6U21	4aa4U0S	4a21USS	SU6a	DDe
y w5Mw5r l r	aa72	J4- U4	J4SU4-	JaSU a	J4aU11	SU6-	DDe
y n8%eor 5mb	471	0US-	0U42	0UJ J	0U2J	2U a	DDe
y n8%eor 5mb	a71	SUJS	SUJ1	SUJ-	SUJ2	1UJ6	DDe
y n8%eor 5mb	671	1Ua1	1Ua2	1UaJ	1Ua-	2U1	DDe
y n8%eor 5mb	071	SU00	SU S	1US1	SUJ	1- U0	DDe
y n8%eor 5mb	J71	SUJ1	SUJ2	SUJ1	SUJ1	SUa6	DDe
u r no%b cmb	1aS71						dDl
u r no%b cmb	1aS72						dDl
u cdkr 8	6S72	1aU1	1aU4-	14U	1aUSa	- U0J	DDe
NEnl DEnpm	- 172	1421Ua	16S6U6	1614U6a	1a40Ua6	0USS0	DDe
NnTwl cmb	- 72	4142UJ	41a2UJ-	422SUJS	4102USS1	1USS2	DDe
CEnocmb	1S- 71				1S0		G
CEnocmb	1S- 72				1S-		G
l dw5ocmb	4a71				1S6		G
l dw5ocmb	4a72				J		G
l r 8 5cmb	J271	1USS	1Ua4	SU00	1U1S	- aUaa	DDe
l r 8 5cmb	0072	4 U40	a2U6	4SU22	40Ua	1- U4S	DDe
l r 8 5cmb	0J72	11UJ	1SU1-	U01	1SUaJ	1SU a	DDe
l c8dn5	2J71	246U40	2aSU6	24JUa-	24JU4a	SU0J	DDe
l c8gr p	1S071	SU26	SU22	SU24	SU24	JUaS	DDe
l c8gr p	1S 71	SU26	SU22	SU2a	SU24	0U-	DDe
l nocmb	2- 72	11SUS	1SaUJJ	11SUaJ	1SJU2	2U42	DDe
l Tpn5Tcmb	J671	UJ	1S1U1	1SSU12	1SSU44	SU06	DDe
l Tpn5Tcmb	JJ71	1SaU1S	1S4UJ	1S- UJ	1S4U66	SU64	DDe
l m8mp	- 471	71J2 UaS	716S6U04	710J6U10	7104SUJS		DDe
Ar pecmb	1a 71				1SJ		G
Ar pecmb	1a 72				1S-		G
AEw8cmb	2S- 71	SU2J	SU2J	SU2	SU2	0USJ	DDe
AEw8cmb	2Sa71	SU1	SU20	SUS	SU2	6U1a	DDe
Ac5	11J71	1U4a	1U44	1U	1U4-	2U	DDe
AcTw5cmb	4071	14SUSS	141U S	141UJ0	141U26	SU00	DDe
Rpw5cmb	2- J71	2U2S	2U1a	2U22	2U1	1U6	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	a172	- a00	- 4la0	- 6U20	- ala4	2U46	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	J 71				11-		G
YTTpcmb	J 72				111		G
Zc5d	6672	14aUS6	14 U1S	14 US2	140U0-	1la6	DDe
Zcpdn5cmb	S71	- U0-	- UJS	- UJ4	- U0	1laS	DDe
Zcpdn5cmb	171	- U6-	- Ua	- UJS	- UJS	4U2a	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	096hF42	096SF-6	60- SFS8	0286F62	6F61	I I b
c n&Amon%	12171	SF4S	SF4-	SF42	SF42	- F86	I I b
c rsenAq	0972	11F2h	12F06	1SF0-	11F6S	hFS4	I I b
BarAum	1- 971	169F8S	164F11	16hF44	166F49	1F64	I I b
BarAum	1- 071	160F-4	164F0-	10SFS-	160F-0	1F98	I I b
Ber%lAum	h71	1FS0	1F19	1FSh	1F1S	- F48	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				112		G
BromAne	8171						ql s
RaOmAum	1S871	SFh-	SF90	SF6-	SF01	20F28	I I b
RaOmAum	1S671	72FS8	7-Fh2	7-F2-	7-FS8		I I b
RaOmAum	11171	SF90	SF9-	SF96	SF99	- F6h	I I b
RalqAum	4- 71	4821FS2	4861F44	48h0F21	489hF8h	SF08	I I b
RalqAum	4471	4hhSF2-	9129F6h	9S26F1S	9S40F-4	1F-h	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 971						ql s
REIorAne	- 972						ql s
REromAum	9272	10F22	10F16	19F2-	16F94	6F89	I I b
Robal&	9h72	6F68	6F6h	9Fh-	6F4-	6F06	I I b
RoI I er	6- 72	1- Fh6	14F4-	1- FS6	1- F82	9FS9	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				11S		G
DnOAum	11971				1S8		G
DnOAum	11972				1S6		G
Don	9472	14S92FhS	14S1- F-2	12912F1S	1- 926F11	6F4h	I I b
Don	9672	144- SF20	140S2F12	1- - 99F01	14162F0S	9FS-	I I b
Don	9072	1- 8S4F46	1- 818F6h	12- 04F81	1- - - 2F69	6F22	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	49F16	46F90	49F8S	49F84	1F94	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4- F89	44F5-	44F2S	44F52	SF4S	I I b
LeaO	2S871	44F49	49F4h	44Fh0	44Fh0	1F16	I I b
LA&EAum	671				h6		G
MagnesAum	2472	1h12F4h	1h26F86	1014F6h	1891F- 9	6F4S	I I b
Manganese	9972	401FhS	40- F98	421F88	499F08	6F44	I I b
Mol%bOenum	h471	- F89	4F12	4F22	4F56	4F0-	I I b
Mol%bOenum	h971	1F59	1F54	1F10	1F58	6F89	I I b
Mol%bOenum	h671	1F- -	1F44	1F42	1F4S	4F41	I I b
Mol%bOenum	h071	1F19	1F1-	1F50	1F11	- F62	I I b
Mol%bOenum	h871	1F29	1F12	1F26	1F21	6F42	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	12F- 6	12F44	1SF89	11F88	0F94	I I b
PEosI Eorus	- 172	980F- 6	984F91	486Fh8	992Fh9	1SF- 4	I I b
Po&assAum	- h72	189- F02	1848F04	16S4F10	1068F88	8F50	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S8		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S4		G
pelenAum	8271	SFh4	SF- 1	SF92	SF9h	9- F68	I I b
pelenAum	0072	- 0F40	- 9F66	- hF2S	- 0F44	4F02	I I b
pelenAum	0872	9F8-	6Fhh	4F- S	9F01	2- F62	I I b
pAAqon	2871	11hF16	11hF49	12SF14	11hF98	SF42	I I b
pAver	1S071	SF1h	SF10	SF21	SF1h	1SF- 2	I I b
pAver	1Sh71	SF1h	SF2S	SF22	SF2S	6F14	I I b
poOAum	2- 72	8hF2h	h9F- 2	06F00	80F1-	1SF86	I I b
p&ona&um	8671	4SF02	42F80	42F42	42F5S	2F0S	I I b
p&ona&um	8871	41F4-	42F9-	42F64	42F2S	1F98	I I b
pulfur	- 471	72964F6-	72401Fh2	72- 09F6h	7240SF09		I I b
i erbAum	19h71				1S6		G
i erbAum	19h72				1Sh		G
i EallAum	2S- 71	SF1h	SF22	SF21	SF21	6F2h	I I b
i EallAum	2S971	SF2S	SF2S	SF21	SF21	2F48	I I b
i An	11871	2F9S	2F46	2F9-	2F9S	1F4h	I I b
i A&anAum	4071	h8F26	1S1F2S	1S- F- 4	1SSFh-	2F9-	I I b
UranAum	2- 871	1F42	1F40	1F4S	1F4-	2F94	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	26F6-	20F- 1	24F21	26FS9	6F29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				112		G
Y&&Aum	8h72				116		G
ZAnq	6672	60F49	0SF96	62F48	66FB-	6F1S	l l b
ZAqonAum	hS71	1F0-	1F08	1FB6	1F0h	- F62	l l b
ZAqonAum	h171	1F66	1FB1	1F66	1F01	4Fn-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	19194F96	1426hF10	141h0F00	1494SF9S	- F60	I I b
c n&Amon%	12171	SF46	SF91	SF40	SF48	9F0h	I I b
c rsenAq	0972	11F48	11F12	1SF86	11F19	2F0h	I I b
BarAum	1- 971	- S- F4S	2h0F80	2h8Fh1	- SSFS6	SFh8	I I b
BarAum	1- 071	- S2F62	- S1F11	- S4F00	- S2F8-	SF61	I I b
Ber%lAum	h71	2F1-	2F12	2F1-	2F1-	SF26	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F48	1F92	1Fh4	1F69	19F1h	I I b
RaOmAum	1S671	SF6S	7SFS9	7SF91	SFS1	922- FSS	I I b
RaOmAum	11171	1F- 9	1F41	1F- -	1F- 6	- F28	I I b
RalqAum	4- 71	88h6F68	88- 0F61	h1- 1F4h	8h99F26	1F04	I I b
RalqAum	4471	h22- F4S	h14hF21	h694F4S	h- 42F- 4	2Fh2	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	18F2-	10Fh2	10FS2	10F02	- F96	I I b
Robal&	9h72	12F6S	11F84	11F02	12FS6	- Fh4	I I b
Rol I er	6- 72	28F98	20F9-	20F- 8	20F8-	2F- 4	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S9		G
DnOAum	11971				1S6		G
DnOAum	11972				1S2		G
Don	9472	- 4h96F19	- - 0h2F64	- - 119Fh1	- - h94FhS	2F04	I I b
Don	9672	- 9129FhS	- - - SSF18	- 282SF1-	- - 048F04	- F6S	I I b
Don	9072	- 2h89FhS	- 1109F- 4	- 11ShF60	- 1096Fh0	- F- 9	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	6- FSS	61F6h	64F90	6- FSh	2F2h	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	9hF80	98F0h	61F-9	6SFSS	2F14	l l b
LeaO	2S871	61Fh6	6SF6S	62F00	61F08	1F00	l l b
LA&EAum	671				hh		G
MagnesAum	2472	496SF86	4420F9S	44S0FS1	4469F12	1F80	l l b
Manganese	9972	h8hFS1	h9SFh9	h-4Fhh	h98F-1	2FhS	l l b
Mol%bOenum	h471	0F-6	0F-6	0F2h	0F-4	SF9S	l l b
Mol%bOenum	h971	1F8h	2FSS	1Fh1	1Fh4	-FSS	l l b
Mol%bOenum	h671	2F98	2F96	2F40	2F94	2F9S	l l b
Mol%bOenum	h071	1F89	2F12	2F14	2FS4	0Fh0	l l b
Mol%bOenum	h871	1Fh-	2FSS	2FS9	1Fhh	-FS9	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	-6F01	-4F14	- -F0S	-4F89	4F60	l l b
PEosI Eorus	-172	1696F8-	1496F-S	1900F06	196-F6-	6F46	l l b
Po&assAum	-h72	6128F90	909SF06	90-0F68	9802F-4	-F08	l l b
5 EoOAum	1S-71				1S0		G
5 EoOAum	1S-72				1S4		G
pqanOAum	4971				1S0		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F-4	1F4h	1F0S	1F91	12FS8	l l b
pelenAum	0072	90F18	91F1-	6SF86	96F-h	8F02	l l b
pelenAum	0872	1-F09	1SF-9	hF86	11F-2	18F01	l l b
pAAqon	2871	180F60	186F94	1h4Fh6	18hF02	2F41	l l b
pAver	1S071	SF22	SF24	SF26	SF24	1SF2-	l l b
pAver	1Sh71	SF2-	SF20	SF20	SF26	8FS1	l l b
poOAum	2-72	11SF6-	1S4F-9	1S9F0-	1S6FhS	-FSh	l l b
p&on&Aum	8671	91F2-	48F6h	9SF00	9SF2-	2F6h	l l b
p&on&Aum	8871	9SF4h	48F6h	9SF01	4hFh0	2F21	l l b
pulfur	-471	72S81F29	72-40F4S	72S1-F86	72140F91		l l b
i erbAum	19h71				1S8		G
i erbAum	19h72				1S-		G
i EallAum	2S-71	SF42	SF-8	SF48	SF42	12FS1	l l b
i EallAum	2S971	SF4-	SF41	SF-h	SF41	4F42	l l b
i An	11871	2FS4	2FS1	2F12	2FS9	2F68	l l b
i A&anAum	4071	-16F0S	-10F-	-18F44	-10F4h	SF28	l l b
UranAum	2-871	2F46	2F46	2F9S	2F40	SFh2	l l b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	42F29	4SF42	- hF02	4SF8S	- F21	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				110		G
Y&&Aum	8h72				110		G
ZAnq	6672	216F28	2S0FS-	2S4F6-	2ShF- 2	2Fh4	l l b
ZAqonAum	hS71	- F2-	- F26	- F- 0	- F2h	2F28	l l b
ZAqonAum	h171	- F2h	- FS-	- F- 1	- F21	4F86	l l b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	18- 11Fh8	1844- F4h	18281F21	18- 49F96	SF40	I I b
cn&Amon%	12171	SF- 1	SF- 2	SF- 9	SF- -	6F12	I I b
crsenAq	0972	12FS6	11F40	11F04	11F06	2F4h	I I b
BarAum	1- 971	- 04FS1	- 61F- -	- 68F14	- 60FB-	1F0-	I I b
BarAum	1- 071	- 6hF22	- 64F00	- 68Fh8	- 60F66	SF68	I I b
Ber%lAum	h71	2F09	2F01	2F01	2F02	1FSS	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F2S	1F- S	1F68	1F- h	18F2-	I I b
RaOmAum	1S671	7SFS4	SF4h	71FS4	7SF1h		I I b
RaOmAum	11171	1F21	1F19	1F1h	1F18	2F- 9	I I b
RalqAum	4- 71	11SS6FS-	1S000F28	1S08SF- S	1S894F9-	1F21	I I b
RalqAum	4471	11498F6-	11- 1SF66	11- 49F11	11- 01F40	SF68	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	26F19	26F21	26F10	26F18	SF11	I I b
Robal&	9h72	19FS2	14FB8	19F14	19FS1	SFB4	I I b
RoI I er	6- 72	28FBh	28Fh2	2hF46	2hFSh	1F1S	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S0		G
DnOAum	11971				1S8		G
DnOAum	11972				1S2		G
Don	9472	42h8hF48	4- 9- 4F4-	4- 124F06	4- 216F22	SF66	I I b
Don	9672	42h62F4-	42288F14	42982FS8	4261SFB8	SF0h	I I b
Don	9072	4- 0h4FB2	44122F0-	4- 400Fh6	4- 0h8F9S	SF04	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	90Fh8	98F14	90F6S	90Fh1	SF40	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	96F28	96F9h	99F2S	96FS-	1F- S	I I b
LeaO	2S871	98F18	90F04	90F16	90F6h	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	9- 14F88	929hF44	9290F82	9200F- 8	SF62	I I b
Manganese	9972	1260F26	1262F80	120hF16	126hF06	SF66	I I b
Mol%bOenum	h471	9F00	9F0h	9F90	9F01	2FSh	I I b
Mol%bOenum	h971	2F- 6	2F2S	2F22	2F26	- F81	I I b
Mol%bOenum	h671	2F64	2F92	2F94	2F90	2F4h	I I b
Mol%bOenum	h071	2F1h	2F- S	2F22	2F24	2F46	I I b
Mol%bOenum	h871	2F- -	2F4-	2F22	2F- -	4F94	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- SFh4	- SFS6	2hF88	- SF- S	1F88	I I b
PEosI Eorus	- 172	1441FS6	1929F44	1- - 8F88	14- 9F1-	6F91	I I b
Po&assAum	- h72	626- F2S	6102F90	61S1FS4	6108Fh-	1F- 2	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S8		G
pqanOAum	4972				1S1		G
pelenAum	8271	1F06	1F- -	1F18	1F4-	21F2h	I I b
pelenAum	0072	0- FSh	06F- 6	61F94	0SF- -	11FS0	I I b
pelenAum	0872	19Fh9	14F41	16F0-	19F0S	0F9-	I I b
pAAqon	2871	240F99	248FS8	244F4-	246F6h	SF8S	I I b
pAver	1S071	SF24	SF22	SF2S	SF22	8FS1	I I b
pAver	1Sh71	SF28	SF2S	SF26	SF29	10F28	I I b
poOAum	2- 72	122F6-	12- F28	12SF62	122F18	1F1-	I I b
p&ona&um	8671	61F88	61F28	90F62	6SF26	- F8-	I I b
p&ona&um	8871	6SF06	6SF- h	98F- -	9hF8-	2F1h	I I b
pulfur	- 471	72618F22	72862F29	7204- FS1	72041F16		I I b
i erbAum	19h71				11S		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF9S	SF99	SF4h	SF91	9F90	I I b
i EallAum	2S971	SF40	SF40	SF91	SF48	4F89	I I b
i An	11871	- F- 4	- F12	- F41	- F2h	4F99	I I b
i A&anAum	4071	200F- 4	206F0h	20hFh6	208FS-	SF61	I I b
UranAum	2- 871	2F84	2Fh0	- FS1	2Fh4	2Fh8	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	9SF2S	4hF08	4hF9h	4hF86	SF62	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				121		G
Y&&Aum	8h72				12S		G
ZAnq	6672	2S8Fh6	211FSh	211F- 4	21SF40	SF62	l l b
ZAqonAum	hS71	2F2h	2F20	2F21	2F26	1F86	l l b
ZAqonAum	h171	2F- -	2F24	2F14	2F24	4F2-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	2S909F16	1h620F90	2SS98F11	2SS86Fh9	2F- 6	l l b
c n&Amon%	12171	2F29	2F- 1	2F1h	2F29	2F98	l l b
c rsenAq	0972	46FS6	46FSS	44F92	49F9-	1Fh2	l l b
BarAum	1- 971	6- 4F2-	616FhS	614F61	621Fh1	1F02	l l b
BarAum	1- 071	6- 4F- 6	622F81	62- F96	626Fh1	1FS-	l l b
Ber%lAum	h71	- F21	- FSS	- F21	- F14	- F09	l l b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	- F66	- F44	- F92	- F94	- F10	l l b
RaOmAum	1S671	- F81	1F80	71FS6	1F94	19hF10	l l b
RaOmAum	11171	- F- S	- F91	- F- -	- F- 8	- F- 4	l l b
RalqAum	4- 71	41S48F- 1	41912F88	4S44- F- 4	41SS1F91	1F- 1	l l b
RalqAum	4471	42996FhS	42h84F44	418h6F61	4240hF- 2	1F2h	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	- - F82	- 2Fhh	- - FSh	- - F- S	1F- 6	l l b
Robal&	9h72	12F6-	11FhS	12F- h	12F- 1	- FS-	l l b
Rol l er	6- 72	h9F99	hSFh0	h4FSS	h- F9S	2F4h	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S6		G
DnOAum	11971				1S0		G
DnOAum	11972				1S-		G
Don	9472	- 6206F96	- 499- F09	- 99- - F91	- 9494F6S	2F44	l l b
Don	9672	- 6299F62	- - 04SF8-	- 6- 99FS4	- 949SF9S	4F18	l l b
Don	9072	- - 648F12	- 2406FS0	- - - 29F04	- - 14hFh0	1F8-	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	9h1F8-	9h- F64	909Fh0	980F19	1F66	l l b

Reviewed By:Bin
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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	969Fh1	968F6h	999F6-	96- F41	1F22	I I b
LeaO	2S871	969F1h	90- F80	99hF40	966F18	1F28	I I b
LA&EAum	671				h6		G
MagnesAum	2472	0886F28	0910F69	0696F91	0686F81	2F42	I I b
Manganese	9972	1222F49	110- F98	11h4F84	11h6Fh6	2FS9	I I b
Mol%bOenum	h471	hF2S	hF42	hF= 0	hF= -	1F24	I I b
Mol%bOenum	h971	- F28	- F1-	- F= 1	- F24	2Fh6	I I b
Mol%bOenum	h671	- F80	- F02	- F82	- F8S	2FS-	I I b
Mol%bOenum	h071	- F29	- FS4	- FS8	- F12	- F90	I I b
Mol%bOenum	h871	- F29	- F2-	- F= 4	- F20	1F8h	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	20F02	29F0h	26F90	26F6h	- F69	I I b
PEosI Eorus	- 172	208- F91	2011F6-	20h4FS4	206- FS6	1F62	I I b
Po&assAum	- h72	96hhF6S	9412FS1	966hFS8	99h- F96	2F82	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S6		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F96	1F44	1F84	1F62	12F08	I I b
pelenAum	0072	- hF8-	- 0F92	- 8F19	- 8F9S	- F11	I I b
pelenAum	0872	8F9h	8F41	8F08	8F9h	2F11	I I b
pAAqon	2871	2- 2F= 0	2- SF04	226F= 6	22hF82	1F= 9	I I b
pAver	1S071	1F12	1F11	1F1S	1F11	SFh4	I I b
pAver	1Sh71	1F11	1F18	1F1S	1F1-	- Fh2	I I b
poOAum	2- 72	990F= S	942F46	998F18	992F69	1F6S	I I b
p&ona&um	8671	- S9F16	- SSF1h	- S1FS9	- S2F1-	SF88	I I b
p&ona&um	8871	- S9F26	- S6F84	- 11F90	- S0F8h	1FS0	I I b
pulfur	- 471	7606F= 0	7- 46F24	76- 0F= 4	799- F= 2		I I b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF= 0	SF= 9	SF= -	SF= 9	6F0-	I I b
i EallAum	2S971	SF= -	SF= -	SF= 1	SF= 2	2F00	I I b
i An	11871	12F6-	12F61	1- FS2	12F09	1F81	I I b
i A&anAum	4071	416FS8	42- FS8	4ShFS1	416FS6	1F6h	I I b
UranAum	2- 871	2F= 0	2F94	2F40	2F46	- F92	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	6- F29	6SF96	61F2S	61F60	2F28	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				114		G
Y&&Aum	8h72				11-		G
ZAnq	6672	1SS1F08	h6SF69	h6hFS4	h00F16	2F22	l l b
ZAqonAum	hS71	- F06	- F98	- F04	- F6h	2F60	l l b
ZAqonAum	h171	- F84	- F89	- F9S	- F0-	9F- 8	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pt 5Tl sb DP t&:	y h SF2N	&dPmTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	1JS49U26	1J1S1U24	1J2SJUN-	1J11NU00	SU44	DDe
q5Tb n5%	12171	SUJ1	SUNN	SUNS	SUN0	6UJN	DDe
qpwr 5cd	0972	46U62	49UNS	46U10	46U2S	SUNN	DDe
Bspcmb	1- 971	4JSU1S	4J1UJN	40JU64	4N0U24	1UJ6	DDe
Bspcmb	1- 071	4J- U60	4N0U29	406U0S	4N9UN0	1U06	DDe
Br p%PPmb	J71	2U94	2U41	2U4-	2U46	2U0S	DDe
Bcvb mTE	2SJ71				1S6		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U11	1UJS	1U92	1UN9	16U2S	DDe
v sob cmb	1S671	71U14	SUJN	7- US6	71U20		DDe
v sob cmb	11171	1UJ4	1UN0	1UN4	1UNN	2U6-	DDe
v sPdcmb	4- 71	269NSUN1	26S69U1N	26902USN	264S6US2	1U12	DDe
v sPdcmb	4471	20069U2S	26N00U2N	20SN6U96	2024- US1	1U0S	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- 971						dDw
v EPmpc5r	- 972						dDw
v Epmb cmb	9272	20U6-	20UJS	2NU26	20UJ-	1U1-	DDe
v nesPT	9J72	19UJ6	19U99	19U66	19U92	SUJJ	DDe
v nDDr p	6- 72	0SU0J	0SU96	01U9S	0SUJ9	SU6J	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1S0		G
h nPb cmb	16972				1S9		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1S2		G
tpn5	9472	41S16U22	4SJ60UJ6	42101UN1	41- N9U1-	1U69	DDe
tpn5	9672	4S2J9U9S	4S222UJ4	4144NU9S	4S699U49	1U6J	DDe
tpn5	9072	4S092US1	- N- S- U96	- JS- NUJ4	- J- 64U64	- U1J	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	2S2U0-	1J4U22	1J4U4-	1J0U1-	2U46	DDe

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5Tl sb DPP t&:	y h SF2N	&dPmTm5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdPP usb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	1J4USS	1N6U94	1JSU2-	1JSU29	1UJ6	DDe
Lr so	2SN71	2SJU9-	1JJU69	2S- U4J	2S4U22	2U44	DDe
LdEcmb	671				JN		G
y sM5r wcmb	2472	02J0UJ4	0- 10UJ	0- 1NU26	0- 11U2S	SU16	DDe
y s5Ms5r wr	9972	114SUJ-	11- 0U2J	119JU6S	1149UJ4	1US4	DDe
y nP%eor 5mb	J471	NUSS	NU12	0U01	0UJ4	2U64	DDe
y nP%eor 5mb	J971	- U11	- US-	2UJ6	- US-	2U42	DDe
y nP%eor 5mb	J671	- U4N	- U9N	- U9-	- U9-	1UJ4	DDe
y nP%eor 5mb	J071	2UN6	2UJ0	2UN9	2UNU	2U42	DDe
y nP%eor 5mb	JN71	2UNU	- US0	2U0N	2UJ1	4UJ0	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	- 6U10	- 6U64	- 0U2N	- 6U0S	1U92	DDe
8 EnwDEnpmw	- 172	101- U20	1NJ4US2	10N4U20	10J0U1J	9US0	DDe
8 nTswwcmb	- J72	9NS6UN2	9J4NUJN	9J- 0U04	9NJ0U64	1UJ4	DDe
CEnocmb	1S- 71				1S9		G
CEnocmb	1S- 72				1S-		G
l ds5ocmb	4971				1S0		G
l ds5ocmb	4972				1S1		G
l r P5cmb	N271	2USN	1UJ6	1UJ4	1U9J	26U9N	DDe
l r P5cmb	0072	- 0UJ6	9SU2J	44UJ1	44UJJ	1- UJ-	DDe
l r P5cmb	0N72	1SUJN	NU69	1SUS1	JUNN	11UN9	DDe
l cdln5	2N71	2- 9US-	2- SUJ-	2- JU9S	2- 4UJ9	1UJ9	DDe
l dgr p	1S071	SU66	SU01	SU02	SU0S	9US-	DDe
l dgr p	1SJ71	SU02	SU69	SU09	SU01	0UJ1	DDe
l nocmb	2- 72	2J- UN9	- S0UNS	- S9U10	- S2U20	2U49	DDe
l Tpm5Tcmb	N671	2S1U24	2S9U9N	1JJUJN	2S2U20	1U49	DDe
l Tpm5Tcmb	NN71	21SUJS	212U60	2SJUS1	21SUN6	SUN0	DDe
l mPmp	- 471	71964UJ0	71N1SUN6	714- 2US9	716S2U42		DDe
Ar pecmb	19J71				1SJ		G
Ar pecmb	19J72				1S9		G
AEs Pbmb	2S- 71	SU4N	SU4S	SU4S	SU4-	11UJ6	DDe
AEs Pbmb	2S971	SU44	SU41	SU4-	SU4-	- U2S	DDe
Ad5	11N71	NU2-	NU21	NU24	NU2-	SU16	DDe
Ad5 5cmb	4071	1- 9U92	12JU69	1- 4U60	1- - U2N	2UJN	DDe
Rps5cmb	2- N71	2U2S	2USJ	2U21	2U10	- U1S	DDe

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse I sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5TI sb DPP t&:	y h SF2N	&dPmTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	09U2J	00U4-	09U1J	09UJ0	1U66	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11-		G
YTTpomb	NJ72				114		G
Zc5d	6672	- 4NU1S	- 44U24	- 99USJ	- 4JU14	1U90	DDe
Zqpdn5omb	JS71	- USS	- U1S	2UJ1	- USS	- USN	DDe
Zqpdn5omb	J171	2UJ9	- U19	- U16	- USJ	- UNN	DDe

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAm	2072	10SSJUS5	1042 US4	10222U06	1021JU6-	1U21	l l b
cn&mon%	12171	SU42	SUJ J	SUJ5	SU4S	U0J	l l b
crwenAq	0 72	1 UJ5	1 UJS	1 UJJ	1 U2	2US1	l l b
BsrAm	1- 71	- S U0J	- 11U21	- S- U20	- S6U0	1UJ2	l l b
BsrAm	1- 071	- S5UJS	- 12U52	- S2U	- SJU42	1U0-	l l b
Ber%RAm	571	2U11	2U11	2US1	2USJ	2U0J	l l b
BAmu&E	2S571				1S0		G
BAmu&E	2S572				1S4		G
BromAe	J171						ql w
v sOmAm	1SJ71	SU01	SU54	SU55	SUJJ	10U25	l l b
v sOmAm	1S671	72U25	2U0S	72UJ1	7SU6-		l l b
v sOmAm	11171	SU0	SUJ5	SUJS	SUJ1	5US2	l l b
v sRqAm	4- 71	121- 6U5S	12- 6SU1J	12SJ5U0-	1215 U6S	1U1J	l l b
v sRqAm	4471	1255- U51	12021U2-	12651U4	12JS2U2-	1UJS	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAe	- 71						ql w
v ERrAe	- 72						ql w
v EromAm	272	1JU5-	15UJ-	15U64	15U40	2U4-	l l b
v obsR&	572	12U65	12UJ-	12UJ0	12U05	SU0-	l l b
v ol l er	6- 72	2JU5	- SUJ1	25U00	25U6J	2UJS	l l b
t %W rowAm	1 671						ql w
t %W rowAm	1 672						ql w
. rbAm	16471						ql w
. rbAm	16472						ql w
HsOoRAm	16S71						ql w
HsOoRAm	16S72						ql w
hoRmAm	16 71				1S5		G
hoRmAm	16 72				1S4		G
DrOAm	11 71				1SJ		G
DrOAm	11 72				1SS		G
Don	472	- 14- - U6	- - 1SJU4	- 2 0- U42	- 2- 01UJ4	2U64	l l b
Don	672	- 1JJ5US6	- 26- 1U0S	- 2S6JUSJ	- 2156U2J	1U2S	l l b
Don	072	- S- 26U-	- S- SJU22	25512U65	- S1J2U4J	SU00	l l b
Kr%&on	J- 71						ql w
LesO	2S671	05U04	J- U41	JSU40	J1U21	2UJ5	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
LesO	2S071	06U14	JSU1S	00U0	0JUSS	2U	I I b
LesO	2SJ71	0JU42	J1USS	0JU05	05U41	1U06	I I b
LAEAm	671				5J		G
y sMnewAm	2472	220US4	4JSU-	4JJUS6	- 5JU4J	2U0	I I b
y snMsnewe	72	656U5J	011U-	0S US	0S4U2	1US-	I I b
y oP%bOenum	5471	U1J	U2	U5	US	1U5J	I I b
y oP%bOenum	5 71	1U10	1U2J	1U15	1U21	4U60	I I b
y oP%bOenum	5671	1U6	1U6-	1U2	1U6S	4U16	I I b
y oP%bOenum	5071	1U20	1U1	1U24	1U22	US0	I I b
y oP%bOenum	5J71	1U2-	1U21	1U2J	1U24	- US6	I I b
NeoO%mAm	1 S71						ql w
NeoO%mAm	1 S72						ql w
NAqkeP	6S72	26U50	2JUSJ	20U40	20US	2US1	I I b
8EowI Eoruw	- 172	5 1UJ4	J15USS	J0- U21	JJ1UJ	0UJ	I I b
8o&swwAm	- 572	4JJ- U02	45J UJ-	4562UJ1	454- U0J	1USJ	I I b
CEoOAm	1S- 71				1S6		G
CEoOAm	1S- 72				1S-		G
pqsnOAm	4 71				1S0		G
pqsnOAm	4 72				5J		G
pe&nAm	J271	SU55	SU	1US-	SUJ6	- 1U21	I I b
pe&nAm	0072	4 UJ0	1U1S	64U4J	- UJ2	10UJ-	I I b
pe&nAm	0J72	1SUJ2	1SU2S	11U22	1SU0	4U0	I I b
pAqon	2J71	10 U6S	1J- U5	1J2UJ-	1JSU60	2U44	I I b
pAger	1S071	SU	SU4	SU0	SU	2UJS	I I b
pAger	1S571	SU0	SUJ	SU4	SU6	- U66	I I b
poOAm	2- 72	54U55	1SSUS	1SSUJ	5JU6-	- U22	I I b
p&on&Am	J671	52UJS	5- U6-	51U64	52U65	1USJ	I I b
p&on&Am	JJ71	5 U46	54U4-	5JU66	56U1J	2U25	I I b
pu&ur	- 471	72- 40UJ2	721S4U50	72251UJ4	7224JU11		I I b
i erbAm	1 571				11S		G
i erbAm	1 572				1S-		G
i EsPAm	2S- 71	SUJ0	SUJ5	SU46	SU41	11U0-	I I b
i EsPAm	2S 71	SU4S	SU4S	SUJ0	SUJ5	UJ6	I I b
i An	11J71	2U1J	2U2	2US5	2U10	- U00	I I b
i A&snAm	4071	1 1U64	1 - U2J	1 4UJ2	1 - U1	SU54	I I b
RrsnAm	2- J71	1UJS	1UJ1	1U2-	1U2J	- UJS	I I b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ro&on:Fsq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUD

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	U4	JUJ0	0U02	0UJ	2U54	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&Aum	J571				116		G
Y&Aum	J572				111		G
ZAnq	6672	1 4U5-	1 5U1	1 0UJ5	1 0U44	1U4J	l l b
ZAqonAum	5S71	2U44	2U45	2US	2U4J	1U10	l l b
ZAqonAum	5171	2U0	2U4	2UJ1	2U40	U51	l l b

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Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20 2	9S92N.Sy	91491.07	91y12.01	912y0.91	1.70	DDe
qCTb 5Ch	121 1	4y7.S6	9S0.21	4y6.yN	4yy.SN	1.46	DDe
qpwr Ccd	09 2	922.7y	920.27	929.y1	929.10	S.4N	DDe
Bspcmb	179 1	246S.Ny	2406.yS	29S2.99	24NS.11	S.N9	DDe
Bspcmb	170 1	2429.y4	291N.16	2926.29	24yS.12	2.24	DDe
Br phPmb	y 1	4N0.S9	409.21	4y7.y9	4N9.4S	1.y9	DDe
Bcwb mT%	2Sy 1				y6		E
Bcwb mT%	2Sy 2				y7		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	9S1.24	4y9.60	4y0.7S	4yN.S0	S.9N	DDe
3 sob cmb	1S6 1	4N6.92	9S0.yN	4y1.9S	4y9.77	2.20	DDe
3 sob cmb	111 1	4y9.7y	9S1.04	9S1.1N	4yy.44	S.0S	DDe
3 sPlcmb	47 1	27NS71.46	27yS1y.y6	246y79.4S	24172N.y4	2.S2	DDe
3 sPlcmb	44 1	279909.2S	2709S7.N1	27y201.42	27049S.14	S.0N	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %P5pcCr	79 1						dDw
3 %P5pcCr	79 2						dDw
3 %p5b cmb	92 2	4N4.S2	4N0.69	4N6.S2	4N9.yS	S.70	DDe
3 5esPT	9y 2	4N0.47	4N4.04	4y1.S9	4N0.04	S.69	DDe
3 5DDr p	67 2	9791.06	91N7.40	9720.46	92N0.96	1.02	DDe
&hwDp5wcmb	196 1						dDw
&hwDp5wcmb	196 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PCcmb	16S 1						dDw
Hso5PCcmb	16S 2						dDw
K5Pb cmb	169 1				1S1		E
K5Pb cmb	169 2				1SS		E
tCocmb	119 1				y6		E
tCocmb	119 2				y2		E
tp5C	94 2	17S6S0.61	1294S2.91	126721.SN	120447.07	2.1N	DDe
tp5C	96 2	1266yS.4y	126SSN.S4	1266N0.22	126461.y1	S.71	DDe
tp5C	90 2	12y970.S9	126941.42	12091S.yN	120N67.19	1.2S	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	27y1.27	2979.67	2927.64	24N7.9S	7.27	DDe

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Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sT:i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sp sb r Tp	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0 1	27NN.0S	2941.17	2919.0y	24N1.N0	7.2y	DDe
Lr so	2SN 1	24S1.00	294S.61	291y.0y	24N0.7y	7.S1	DDe
LdP%mb	6 1				N6		E
MsgOr wmb	24 2	297NN2.y7	296269.79	29yNy4.22	2966NS.N7	1.1N	DDe
MsOgsOr wr	99 2	92Sy.90	9171.N1	91S7.1y	914N.1y	1.S0	DDe
M5Pheor Omb	y4 1	4y9N.20	4y07.NS	4y17.4y	4y4N.92	S.67	DDe
M5Pheor Omb	y9 1	4y2y.74	4y61.7N	4ySy.12	4y77.2N	S.97	DDe
M5Pheor Omb	y6 1	4y07.17	4y24.46	4NNS.N1	4y26.17	S.y4	DDe
M5Pheor Omb	y0 1	4N97.y0	4y29.S0	4NyN.4y	4Ny2.91	S.07	DDe
M5Pheor Omb	yN 1	4N4y.N4	9S27.40	9S66.24	4y0y.N9	2.7S	DDe
u r 5ohb omb	19S 1						dDw
u r 5ohb omb	19S 2						dDw
u dfr P	6S 2	9S4.22	4y6.NS	9S4.90	9S1.N0	S.N0	DDe
8 %5wD%5pmw	71 2	y622.07	1S2Ny.96	y02y.24	yNNS.91	7.67	DDe
8 5Tswwmb	7y 2	126y16.16	126710.9y	124722.4y	129N92.SN	1.SN	DDe
R%5omb	1S7 1				y2		E
R%5omb	1S7 2				y1		E
I dsOomb	49 1				y9		E
I dsOomb	49 2				y1		E
I rPOmb	N2 1	40y.y0	4N6.y4	400.76	4N1.42	1.S7	DDe
I rPOmb	00 2	9S6.N6	4y6.2y	94S.9N	914.9N	4.4y	DDe
I rPOmb	0N 2	910.0N	929.66	974.24	929.Ny	1.90	DDe
I dd5C	2N 1	9S9.71	9Sy.77	920.y0	914.2S	2.79	DDe
I dPr p	1S0 1	4N0.71	4N9.1S	4N2.1N	4N4.N6	S.97	DDe
I dPr p	1Sy 1	4y2.4N	4N2.N9	4yS.1S	4NN.4N	1.S7	DDe
I 5omb	27 2	29y414.N9	29N0y4.47	29y66N.1N	29y2y2.4y	S.10	DDe
I Tp5CTomb	N6 1	129S0.14	1296N.0N	121N2.19	1241y.76	1.60	DDe
I Tp5CTomb	NN 1	122N1.64	126Sy.N9	122S6.9S	12766.SS	1.07	DDe
I mPVp	74 1	y779.04	N009.29	y922.6N	y211.22	4.22	DDe
Ar pemb	19y 1				1S1		E
Ar pemb	19y 2				yy		E
A%sPmb	2S7 1	4Ny.N2	9S7.y6	911.yy	9S1.y2	2.24	DDe
A%sPmb	2S9 1	4y0.S6	9S0.4N	9S9.10	9S7.24	1.Sy	DDe
AdC	11N 1	4y2.4S	9S6.7S	4Ny.N6	4y6.1N	1.0N	DDe
AdsOomb	40 1	4y47.69	4yN7.6y	9S9S.yN	4yy2.00	1.Sy	DDe
UpsOomb	27N 1	4yS.74	9S2.62	9Sy.S6	9SS.6N	1.yS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	91 2	91N.Sy	911.yS	922.49	910.4N	1.S2	DDe
YTTr pe omb	102 1						dDw
YTTr pe omb	102 2						dDw
YTTr pe omb	106 1						dDw
YTTr pe omb	106 2						dDw
YTTpomb	Ny 1				y6		E
YTTpomb	Ny 2				y4		E
ZdCd	66 2	4yN6.67	4y76.6N	9S11.2N	4y0N.2S	S.06	DDe
Zqpd5Comb	yS 1	4y2.12	4N6.1N	4yy.y6	4y2.09	1.4S	DDe
Zqpd5Comb	y1 1	400.44	402.64	40y.N9	406.64	S.00	DDe

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Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
cRmA5Aum	2072	1.2J	- .0J	: .- 1	- .46	: J.06	l l b
c5&mn5y	12171	S.22	S.2J	S.- 1	S.20	1J.S1	l l b
crwe5Aq	0: 72	S.S-	S.Sh	S.SJ	S.S0	42.- h	l l b
BsrAum	1- : 71	S.2-	S.20	S.Sh	S.1h	4J.h0	l l b
BsrAum	1- 071	S.2-	S.2:	S.14	S.21	20.h6	l l b
BeryPAum	h71	S.11	S.11	S.S0	S.1S	24.S:	l l b
BAumu&%	2Sh71				1SS		E
BAumu&%	2Sh72				1SS		E
BrnmA5e	J171						ql w
3 sOmAum	1SJ71	S.1:	S.S-	S.1:	S.11	6: .0-	l l b
3 sOmAum	1S671	74.42	74.- 1	71.1h	7- .- 1		l l b
3 sOmAum	11171	S.S:	S.S6	S.S-	S.S:	- 1.61	l l b
3 sRqAum	4- 71	20.0h	- 6.26	11.2:	2: .1S	: S.66	l l b
3 sRqAum	4471	60.14	66.S:	4- .: 1	: J.hS	22.6:	l l b
3 srbn5	1271						ql w
3 srbn5	1272						ql w
3 %nrA5e	- : 71						ql w
3 %nrA5e	- : 72						ql w
3 %nmAum	: 272	S.S6	S.11	S.S6	S.SJ	- J.10	l l b
3 nbsR&	: h72	S.SS	S.S4	S.S4	S.S2	1SS.: 0	l l b
3 nl l er	6- 72	S.0-	S.h0	1.SS	S.hS	16.21	l l b
t ywl rnwAum	1: 671						ql w
t ywl rnwAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
GsOnP5Aum	16S71						ql w
GsOnP5Aum	16S72						ql w
HnPmAum	16: 71				1S1		E
HnPmAum	16: 72				1SS		E
D5OAum	11: 71				hh		E
D5OAum	11: 72				h6		E
Dn5	: 472	- .0S	h.S1	1S.SS	0.: 0	44.00	l l b
Dn5	: 672	- .J6	J.- h	1S.- -	0.: -	44.1-	l l b
Dn5	: 072	: .h-	J.24	1S.SJ	J.SJ	2: .01	l l b
Kryl &n5	J- 71						ql w
LesO	2S671	S.- J	S.- h	S.- 1	S.- 6	1S.h4	l l b

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On:7/14/2023 8:48:56 AM
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LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
LesO	2S071	S.42	S.4S	S.2:	S.- 6	2: .2S	I I b
LesO	2SJ71	S.- h	S.4S	S.- 1	S.- 0	1- .SJ	I I b
LA%Aum	671				JJ		E
Msg5ewAum	2472	4.: J	1- .14	21.0S	1- .14	6: .16	I I b
Ms5gs5ewe	: : 72	S.1S	S.20	S.: :	S.- 1	0: .2J	I I b
MnPybOe5um	h471	S.h1	S.h-	S.06	S.J0	1S.6:	I I b
MnPybOe5um	h: 71	1.10	1.42	S.6h	1.1S	- - .61	I I b
MnPybOe5um	h671	1.S1	1.S1	S.6J	S.hS	21.: h	I I b
MnPybOe5um	h071	S.J0	S.J-	S.0-	S.J1	J.h1	I I b
MnPybOe5um	hJ71	S.h6	1.Sh	S.6:	S.hS	24.h:	I I b
NenOymAum	1: S71						ql w
NenOymAum	1: S72						ql w
NAqkeP	6S72	S.SS	S.S-	S.S4	S.S2	1SJ.6J	I I b
8%nwl %nruw	- 172	76S.- 2	2.Jh	7- .S4	72S.16		I I b
8n&swwAum	- h72	: J.1h	: J.J0	: 2.h1	: 6.66	: .06	I I b
R%nOAum	1S- 71				hJ		E
R%nOAum	1S- 72				hh		E
pqs5OAum	4: 71				h4		E
pqs5OAum	4: 72				h1		E
pere5Aum	J271	7S.- 1	7S.61	7S.S4	7S.- 2		I I b
pere5Aum	0072	7S.- J	7S.- J	7S.- J	7S.- J		I I b
pere5Aum	0J72	1.S4	S.JJ	S.24	S.02	: J.hh	I I b
pAqn5	2J71	S.60	S.4h	S.4S	S.: 2	2: .h-	I I b
pAer	1S071	S.S:	S.S4	S.S4	S.S4	16.- h	I I b
pAer	1Sh71	S.S:	S.S:	S.S4	S.S:	J.hJ	I I b
pnOAum	2- 72	1: 1.0J	16S.0:	1: 4.41	1: : .6:	2.h6	I I b
p&n5&Aum	J671	1.2J	1.- 1	S.6:	1.SJ	- 4.10	I I b
p&n5&Aum	JJ71	1.: 1	1.1S	S.6:	1.SJ	- h.00	I I b
pufur	- 471	0J.6:	7- S.h-	7124.: 2	72: .6S		I I b
i erbAum	1: h71				1SS		E
i erbAum	1: h72				hJ		E
i %sPAum	2S- 71	S.- 2	S.- 1	S.2-	S.2J	1J.2J	I I b
i %sPAum	2S: 71	S.2:	S.20	S.22	S.2:	1S.44	I I b
i A5	11J71	S.62	S.S6	S.S0	S.2:	12J.4:	I I b
i A&s5Aum	4071	S.h0	S.J4	S.- -	S.02	40.21	I I b
Urs5Aum	2- J71	S.S4	S.S0	S.S-	S.S:	- 6.Sh	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsqa&r 9	1
t s&e T i Ane c qduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&w
Vs5sOAum	: 172	S.S2	S.S-	S.S0	S.S4	04.h0	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				hJ		E
Y&&Aum	Jh72				h6		E
ZA5q	6672	S.1J	S.- 1	S.: 6	S.- :	: : .JS	l l b
ZAqn5Aum	hS71	S.S6	S.S6	S.S-	S.S:	- - .- 0	l l b
ZAqn5Aum	h171	S.S2	S.S6	S.S-	S.S4	4J.06	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I ers&or 9	aswl sP
Lsb psmI Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psmI Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	Un&w
cRmAAum	2072	2S0JhFJ-	2S1JJF64	2S42: FJ2	2S46JF1S	1F4J	I I b
cn&mon%	12171	SF0h	SFhJ	SFJh	SFJh	1SF02	I I b
crwenAq	0: 72	1- F44	1- F60	1- F2h	1- F40	1F4-	I I b
BsrAum	1- : 71	- - 2FS6	- - 6F- h	- : : F2J	- 41F24	- F62	I I b
BsrAum	1- 071	- - 0F. 1	- - hF16	- : 0F0S	- 44F0h	- F2:	I I b
Ber%RAum	h71	2F. h	2F0-	2FJ1	2F01	4F1h	I I b
BAumu&E	2Sh71				1S-		G
BAumu&E	2Sh72				1SS		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFJS	SF0J	SF6h	SF06	0F12	I I b
RsOmAum	1S671	71F1h	72F41	7SFh-	71F. 1		I I b
RsOmAum	11171	SF40	SF4J	SF44	SF46	- FJ2	I I b
RsRqAum	4- 71	1J6- hF21	1h1- SFJ0	1hJJ: FJ6	1h21JF6:	- F20	I I b
RsRqAum	4471	1Jh24FhS	1h: SSF6-	2S: ShF41	1h644FhJ	4FSJ	I I b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REROrAne	- : 71						ql w
REROrAne	- : 72						ql w
REromAum	: 272	26Fh0	26F2J	26F- h	26F. :	1F- h	I I b
RobsR&	: h72	14F46	1- F01	14F1J	14F11	2F6h	I I b
RoI I er	6- 72	26F41	2: F22	2: F. h	2: F04	2F- 0	I I b
t %wI rowAum	1: 671						ql w
t %wI rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoRhAum	16S71						ql w
HsOoRhAum	16S72						ql w
y oRmAum	16: 71				1S:		G
y oRmAum	16: 72				1S1		G
DnOAum	11: 71				1S1		G
DnOAum	11: 72				h0		G
Don	: 472	- 6: - 0FJ4	- : S20F. 6	- : SJ1F2h	- : : 4JFhS	2F41	I I b
Don	: 672	- : 06: F6h	- 4: 01F. 2	- : 2h6Fhh	- : 211F4S	1F01	I I b
Don	: 072	- - 440Fh0	- 2020FS1	- 2h0hF. 6	- - S: 1F. 1	1F11	I I b
Kr%I &on	J- 71						ql w
LesO	2S671	- : F1:	- 6F0S	- 0F22	- 6F- 6	2Fh6	I I b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
LesO	2S071	- 2F0S	- - F. 1	- 4F- 4	- - F. 2	2F4:	l l b
LesO	2SJ71	- - F0J	- 4Fh-	- : FJ-	- 4FJ:	2Fh:	l l b
LAEAum	671				h2		G
MsgnewAum	2472	: 2h6F- 0	: SJSF46	: 16SF01	: 10hF1J	2F11	l l b
Msngsnewe	: : 72	60hF. 4	6: 2FJh	6: 2F- :	661F. h	2F- :	l l b
MoP%bOenum	h471	: F2S	: F- -	: FJ2	: F4:	6FS2	l l b
MoP%bOenum	h: 71	1F14	1FSh	1F24	1F16	6F- J	l l b
MoP%bOenum	h671	1F6J	1F60	1F0S	1F6J	SF0J	l l b
MoP%bOenum	h071	1FSh	1F- 2	1F22	1F21	hF- J	l l b
MoP%bOenum	hJ71	1F16	1F20	1F. 6	1F- -	1: F. h	l l b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	- - F1S	- 1F6J	- 2F2-	- 2F- 4	2F21	l l b
8EowI Eoruw	- 172	4hJF. J	: 0SF46	44hF- 4	: S6F1-	12FS4	l l b
8o&swwAum	- h72	442: FJ-	4- 4hF64	44S0FJ4	4- h4F44	SFh1	l l b
5EoOAum	1S- 71				hh		G
5EoOAum	1S- 72				hh		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h4		G
pe?enAum	J271	SFJ6	1F22	1FS0	1FS:	10F10	l l b
pe?enAum	0072	64F- S	61F16	64FS1	6- F16	2F0:	l l b
pe?enAum	0J72	1: FS-	14F1h	12FS4	1- F0:	11F1J	l l b
pAqon	2J71	242F20	24JF11	2: : FS4	24JF40	2F. 0	l l b
pAver	1S071	SF10	SF1J	SF1J	SF1J	1F. -	l l b
pAver	1Sh71	SF24	SF10	SF2S	SF2S	1hF- J	l l b
poOAum	2- 72	2S1F. 6	10: FJ:	1JJFJ0	1JJF06	6FJ1	l l b
p&on&Aum	J671	0hF2-	J1F0h	J: F04	J2F2:	- Fhh	l l b
p&on&Aum	JJ71	0JFh6	J2F6:	J4Fh0	J2F2S	- F6h	l l b
pufur	- 471	71S0JF24	71162F0S	7h- 6Fh-	71S: hF2h		l l b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S2		G
i EsPAum	2S- 71	SF6:	SF6J	SF6h	SF60	- F60	l l b
i EsPAum	2S: 71	SF6:	SF6J	SF6J	SF60	2F4h	l l b
i An	11J71	2FS4	2F1-	2F16	2F11	- FS-	l l b
i A&snAum	4071	1- SF. h	12JF12	1- - F04	1- SFJ2	2F1:	l l b
UrsnAum	2- J71	1F26	1F- 1	1F- h	1F- 2	4Fh6	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9119 J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
VsnsOAum	: 172	64F4h	6- F16	6- F1S	6- F: J	1F24	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				111		G
Y&&Aum	Jh72				111		G
ZAnq	6672	11- FJ:	1ShF6h	112F- 1	111Fh:	1FJJ	l l b
ZAqonAum	hS71	2F4-	2F: 0	2F0S	2F: 0	: F- 2	l l b
ZAqonAum	h171	2F62	2F64	2F0-	2F60	2F20	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I ers&or 9	aswl sP
Lsb psmI Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psmI Re D 9	My S. - 1	t Ro&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	Un&w
cRmAAum	2072	JJhhFSJ	J061F1:	J611F24	J0: 0F16	1F64	I I b
cn&mon%	12171	SF0-	SF0J	SFJ2	SF0J	: Fh1	I I b
crwenAq	0: 72	1SF2S	1SF24	1SF60	1SF- 0	2F. -	I I b
BsrAum	1- : 71	21: FJ6	22SF0J	21: F- S	210F- 1	1F- h	I I b
BsrAum	1- 071	21- F4-	22: F26	222FJ-	22SF. 1	2FJ-	I I b
Ber%BAum	h71	1F40	1F46	1F4J	1F40	SF66	I I b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S2		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFhS	1F1S	1F41	1F14	22F. :	I I b
RsOmAum	1S671	71F. 0	7- F46	7SF41	71FJ1		I I b
RsOmAum	11171	1F- 4	1F26	1F20	1F2h	- F. 2	I I b
RsRqAum	4- 71	6: h1F60	60S4FS0	60JSF0-	66h2F16	1F42	I I b
RsRqAum	4471	6hh1FhS	0S4hFSS	0Sh- F0S	0S44FJ0	SF02	I I b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- : 71						ql w
REPrAne	- : 72						ql w
REromAum	: 272	1- Fh:	1- F. 2	1- F6S	1- F6h	1F6:	I I b
RobsR&	: h72	6F0-	6FJJ	6FJ6	6FJ2	1F2S	I I b
Rol I er	6- 72	4SFSJ	- JF0h	- hFS1	- hF2h	1F0:	I I b
t %w I rowAum	1: 671						ql w
t %w I rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oPmAum	16: 71				1S:		G
y oPmAum	16: 72				1S4		G
DrOAum	11: 71				1S2		G
DrOAum	11: 72				hh		G
Don	: 472	101SJFh0	16: 14F6J	16061Fhh	160h: F21	1F0J	I I b
Don	: 672	10J2- F04	100- JF60	10042Fh1	1006JF44	SF20	I I b
Don	: 072	16060F2:	164- 2FhS	16- 1: F40	16: S: F2S	1F42	I I b
Kr%o &on	J- 71						ql w
LesO	2S671	12hF. S	12hF- h	1- 1F- h	1- SFSh	SFJ6	I I b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
LesO	2S071	12- F- 2	120F21	12JF. h	126F- 0	2F16	l l b
LesO	2SJ71	120FS2	1- 4FS6	1- SFJ0	1- SF6:	2F0S	l l b
LAEAum	671				h4		G
MsgnewAum	2472	21J4F2S	211hFJh	211hF4-	2141F1J	1F04	l l b
Msngsnewe	: : 72	4: 1F61	44: FJ4	44: FhS	440F0J	SF04	l l b
MoP%bOenum	h471	4F. 0	4F06	4F4h	4F61	- FS6	l l b
MoP%bOenum	h: 71	1F2S	1F2:	1F- S	1F2:	- FJ0	l l b
MoP%bOenum	h671	1F. h	1F02	1F62	1F64	4F2:	l l b
MoP%bOenum	h071	1F2S	1F- 4	1F- 1	1F2J	: F42	l l b
MoP%bOenum	hJ71	1F21	1F20	1F22	1F2-	2F6-	l l b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	1SFh0	1SF4-	1SF- 1	1SF. 0	- F- 2	l l b
8 EowI Eoruw	- 172	1J60F26	2S1hFSh	1Jh: F00	1h20F- 0	4F1h	l l b
8 o&swwAum	- h72	- 622FS:	- 6S0F6J	- 622F- -	- 610F- 6	SF2-	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1SS		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h6		G
pe?enAum	J271	SF00	SF6h	SFh1	SF0h	14F2h	l l b
pe?enAum	0072	- 4F. 0	- 6F21	- 1F1S	- - Fh6	0F60	l l b
pe?enAum	0J72	: F00	6F- 6	0F6S	6F. J	14F10	l l b
pAqon	2J71	1J- F- 0	1J6F20	1J0F4:	1J: F0S	1F1-	l l b
pAer	1S071	SF. 0	SF. 4	SF. h	SF. 6	4F6h	l l b
pAer	1Sh71	SF. 0	SF64	SF6S	SF6S	: F- 2	l l b
poOAum	2- 72	1JSFh6	10SFh0	1JJF14	1JSFS2	4F0h	l l b
p&on&Aum	J671	JJF0:	h2Fh2	h2F44	h1F- 0	2F. S	l l b
p&on&Aum	JJ71	JhF41	h: Fh-	h: FJ2	h- F02	- FhJ	l l b
pufur	- 471	7J0- F24	7120hFJh	71S0hF20	71S00F40		l l b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S1		G
i EsPAum	2S- 71	SF- -	SF- -	SF- -	SF- -	SF. 1	l l b
i EsPAum	2S: 71	SF- 1	SF- 1	SF- 1	SF- 1	SF0-	l l b
i An	11J71	4F- 2	4F4S	4F62	4F44	- F4-	l l b
i A&snAum	4071	12hF- S	1- 4F26	1- 4F22	1- 2F. h	2F1:	l l b
UrsnAum	2- J71	2F26	2F1h	2F- 1	2F2:	2F6h	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
VsnsOAum	: 172	2JFh0	20F6h	20FJS	2JF1:	2F: 1	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				1S6		G
Y&&Aum	Jh72				1S2		G
ZAnq	6672	224FS0	21hF00	22SF1h	221F-4	1FS0	l l b
ZAqonAum	hS71	1Fh:	2F10	1Fh:	2FS2	6F4:	l l b
ZAqonAum	h171	1Fh-	2FS-	2F1J	2FS:	6F21	l l b

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Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Re:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAm	2072	9 00F-9	9h- hF09	9h- 1F-2	9h16F14	SF90	l l b
cn&mon%	12171	SF6S	SF9	SF66	SF61	6F41	l l b
crwenAq	0972	F20	F01	F4	F4h	2F61	l l b
BsrAm	1- 971	144F42	141FS	1- hF 6	141F0h	1F60	l l b
BsrAm	1- 071	146FSh	14SFS9	14SF49	142F2S	2F-0	l l b
Ber%BAm	h71	1F16	1F24	1F19	1F1	4F1h	l l b
BAmu&E	2Sh71				1S6		G
BAmu&E	2Sh72				1S4		G
BromAe	171						ql w
RsOmAm	1S 71	SF9S	SFh2	SF66	SF6h	- SF0	l l b
RsOmAm	1S671	SF0-	71F66	7- F2h	71F4S		l l b
RsOmAm	11171	SFh1	SFh2	SFh-	SFh2	SF 1	l l b
RsRqAm	4- 71	- 9hhF29	- 6S F42	- 990F1-	- 9 F20	SF06	l l b
RsRqAm	4471	- 9 1F6-	- 69SF-6	- 6S2F 1	- 611F6S	SFh0	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAe	- 971						ql w
REPrAe	- 972						ql w
REromAm	9272	11F-4	11F16	11F49	11F-2	1F-S	l l b
RobsR&	9h72	9F 9	9F09	9F01	9F00	1F2-	l l b
Rol l er	6- 72	26F4-	26F- -	26F-9	26F-0	SF21	l l b
t %w rowAm	19671						ql w
t %w rowAm	19672						ql w
CrbAm	16471						ql w
CrbAm	16472						ql w
HsOoPnAm	16S71						ql w
HsOoPnAm	16S72						ql w
y oPnAm	16971				1S4		G
y oPnAm	16972				1S-		G
DnOAm	11971				1S-		G
DnOAm	11972				1SS		G
Don	9472	122S2F6S	122S- F0S	12S92F-0	12192F h	SF02	l l b
Don	9672	12 14F6-	1- S- 9F9	1- SSSF60	12h9SF2h	SFh2	l l b
Don	9072	12S- 0F62	12S 9F-h	1212hF11	12S 4FS4	SF-	l l b
Kr%&on	- 71						ql w
LesO	2S671	00FS4	09F92	04F6	09F04	1F9	l l b

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LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	My S. - 2	t AR&on:. sq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
LesO	2S071	0- F9h	0- F19	02F10	02Fh0	SFhh	l l b
LesO	2S 71	09F49	04F62	0- F9	04F99	1F26	l l b
LAEAum	671				h9		G
MsgnewAum	2472	1- 19F22	1- 99F66	1- - 9F- -	1- - 9F4S	1F91	l l b
Msngsnewe	9972	441F4	446F9S	442F0S	44- F96	SF9h	l l b
MoP%bOenum	h471	- F- 4	- F- S	- F19	- F26	- FS-	l l b
MoP%bOenum	h971	1F1	1FS-	SFh6	1FS6	1SF6S	l l b
MoP%bOenum	h671	1F- 6	1F2	1F- 2	1F- 2	2F00	l l b
MoP%bOenum	h071	1F2S	1FSh	1F11	1F1-	9F10	l l b
MoP%bOenum	h 71	1F14	1FS9	1FS4	1FS0	4Fhh	l l b
NeoO%mAum	19S71						ql w
NeoO%mAum	19S72						ql w
NAqkeP	6S72	0F -	F29	FSS	FS-	2F66	l l b
8 EowI Eoruw	- 172	062F9h	h- 2F9h	h14F- 2	6hF -	1SF0-	l l b
8 o&swwAum	- h72	1h SF12	2S26F 4	2S2hF 1	2S12F26	1F- h	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqsnOAum	4971				1S1		G
pqsnOAum	4972				h0		G
pe?enAum	271	SF29	SF4h	SF- 2	SF- 6	- 4Fhh	l l b
pe?enAum	0072	- SFS9	- 4F1	- 4F 2	- - FS2	0F 6	l l b
pe?enAum	0 72	0F- S	6F41	9FhS	6F94	1SFhS	l l b
pAqon	2 71	10 F26	1 1F40	106F12	10 F62	1F91	l l b
pA?er	1S071	SF- 0	SF- 2	SF- 9	SF- 9	0F0S	l l b
pA?er	1Sh71	SF- 1	SF26	SF- 2	SF- S	1SF41	l l b
poOAum	2- 72	194FhS	196FS-	199F 2	199F9h	SF- h	l l b
p&on&Aum	671	91F0S	91F21	9SF1h	91FS-	1F91	l l b
p&on&Aum	71	9SF1h	9SF- 9	4hFh2	9SF19	SF4-	l l b
pu?ur	- 471	71622F24	719h F4-	716h0F69	716- hF44		l l b
i erbAum	19h71				1S9		G
i erbAum	19h72				1S1		G
i EsPAum	2S- 71	SF26	SF2-	SF24	SF29	9F- 1	l l b
i EsPAum	2S971	SF29	SF24	SF24	SF29	2F96	l l b
i An	11 71	2F- -	2F- S	2F46	2F- 6	- F69	l l b
i A&snAum	4071	h Fh	h Fh1	h6F26	h FS9	1F9	l l b
UrsnAum	2- 71	1F6S	1F9	1F99	1F9	1F64	l l b

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LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t Ro&on:. sq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	9172	22F69	22F6h	22F91	22F62	SF41	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				1S6		G
Y&&Aum	h72				1S2		G
ZAnq	6672	1- - F4S	1- F12	1- 2Fhh	1- 4F -	2F11	l l b
ZAqonAum	hS71	1F- 2	1F- -	1F20	1F- 1	2F2-	l l b
ZAqonAum	h171	1F26	1F2	1F- 2	1F2h	2F00	l l b

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdP:u sb r :J	S90qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	11- - SU1-	1194 U9S	110N2U11	1199- U 1	1U 6	DDe
q5Tb n5%	12171	SU9	SU9 9	SU4-	SU9	1SUNN	DDe
qpwr 5cd	0972	12US1	1SU06	11U04	11U9S	9U09	DDe
Bspcmb	1- 971	240USN	290U49	296U62	29- U01	2U20	DDe
Bspcmb	1- 071	249U69	292U0	290U49	291U 6	2U 6	DDe
Br p%PPmb	71	2U11	2U14	2U1-	2U1-	SUN9	DDe
Bcvb mTE	2S 71				1S		G
Bcvb mTE	2S 72				1S-		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	1US-	1US1	1US4	1US2	1U 4	DDe
v sob cmb	1S671	7SUS0	72U41	71UNN	71U49		DDe
v sob cmb	11171	SUN0	SU6	SUN-	SUNS	11U00	DDe
v sPdcmb	4- 71	1S 14U9-	11S SU9-	11292U2-	11SN9U00	1U92	DDe
v sPdcmb	4471	1140- U2N	119N2U4S	110 NUSN	11610U 2	1U42	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpd5r	- 971						dDw
v EPmpd5r	- 972						dDw
v Epmb cmb	9272	19US	19U1	16U19	19U4N	- U00	DDe
v nesPT	9 72	11U9 2	1SUNS	11U4	11U2S	- U2S	DDe
v nDDr p	6- 72	- 1UNN	- 2U9 2	- - U 6	- 2U02	- U9 9	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1SN		G
h nPb cmb	16972				1S-		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1SS		G
tpn5	9472	291S0U14	29640U9N	2611SUNS	29621U00	1U 6	DDe
tpn5	9672	2922SU9 4	24N40U1N	264S6U1N	294 1U24	- U1	DDe
tpn5	9072	2- 422U9 9	2- S16U61	246- NU0-	2- 6 2U96	- U96	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	64U4S	64UN6	69US1	64U09	SU4	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	61UJ 1	61U1	61U64	61UJ N	SUJ N	DDe
Lr so	2SN71	6- U1N	62U91	6- U20	62U	SU66	DDe
LdEcmb	671				0		G
y sM5r wcmb	2472	91- 4US4	9199U9S	9- 24U 9	92S4UN-	2US1	DDe
y s5Ms5r wr	9972	00SU94	000UJ 4	N19U46	0N0U0N	- US0	DDe
y nP%eor 5mb	471	9U90	9U9	9U90	9U9N	SU1	DDe
y nP%eor 5mb	971	1U1S	1U2-	1U21	1U1N	9U 4	DDe
y nP%eor 5mb	671	1U91	1U6	1U60	1U62	9U -	DDe
y nP%eor 5mb	071	1UJ 4	1U1S	1U2N	1U24	1SUS	DDe
y nP%eor 5mb	N71	1U1	1U14	1U2S	1U1N	2U9-	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	1 U12	1NJ 9	1 U04	1 US0	- U64	DDe
8 EnwDEnpmw	- 172	1269UN9	120SU	12 1U1S	1209U N	1US9	DDe
8 nTswwcmb	- 72	- 6N1UJ 2	- 660U22	- 000U6	- 0SNU04	1U62	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
I ds5ocmb	4971				1S6		G
I ds5ocmb	4972				0		G
I r P 5cmb	N271	SU0	SUN	1U90	1USN	- U26	DDe
I r P 5cmb	0072	4NU12	- 1UN0	46U1N	42US6	21U1S	DDe
I r P 5cmb	0N72	0U9-	NUN	NUJ S	NU24	NU20	DDe
I cdln5	2N71	10NUS1	10- U49	1N4US2	10NU4	2U 0	DDe
I dgr p	1S071	SU1N	SU22	SU22	SU21	1SU12	DDe
I dgr p	1S 71	SU2S	SU21	SU22	SU21	4U40	DDe
I nocmb	2- 72	10SU 6	102U91	106UJ	10- U2	1U62	DDe
I Tm5Tcmb	N671	0U6N	1SSUS2	NU6N	NUNS	1U1	DDe
I Tm5Tcmb	NN71	1S- U4-	1S- U49	1S9U9-	1S4U14	1U16	DDe
I mPmp	- 471	71NN9U 4	710- SU14	716 2UN4	7106 U64		DDe
Ar pecmb	19 71				1SN		G
Ar pecmb	19 72				1S-		G
AEs PPcmb	2S- 71	SUJ -	SUJ 2	SUJ N	SUJ 4	U21	DDe
AEs PPcmb	2S971	SUJ 6	SUJ 2	SUJ 9	SUJ 4	6US-	DDe
Ad5	11N71	- U1-	- U26	- U24	- U21	2US0	DDe
Ad5 5cmb	4071	1US9	2U -	2UN-	2U20	1U19	DDe
Rps5cmb	2- N71	2U N	- US9	- US9	- US2	1UJ S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdP:u sb r :J	S90qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	- SU56	2 UN9	- 1U6S	- SU91	- U1-	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				111		G
YTTpomb	N 72				1S6		G
Zd5d	6672	219U6	216U9	220U90	21 U9	- US1	DDe
Zqpdn5omb	S71	2U9N	2U64	2UN1	2U6N	4U26	DDe
Zqpdn5omb	171	2U69	2U9-	2U6	2U62	- U 1	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	0hS2F24	0886FS-	0821F. 8	086hFh:	SF. 4	I I b
cn&Amon%	12171	SF04	SF8:	SF0h	SF0h	6F4:	I I b
crsenAq	0: 72	hFh4	hF0:	hF68	hF0h	1F- h	I I b
BarAum	1- : 71	266F- 2	260F60	260Fh4	260F- 1	SF- 2	I I b
BarAum	1- 071	201F02	20- F46	20SF81	202FSS	SF4h	I I b
Ber%lAum	h71	1F4:	1F- 2	1F4-	1F4S	: FS1	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	1F1-	1F10	SF8-	1FS4	18FS6	I I b
RaOmAum	1S671	71F8S	71F28	71F11	71F4S		I I b
RaOmAum	11171	SF. :	SF4h	SF. -	SF. 2	: F. :	I I b
RalqAum	4- 71	16: 0- F- S	1682hF26	10S0hF. -	16820F- 6	1F. S	I I b
RalqAum	4471	101S8F. -	104- 6F66	10012F82	1041hF- 4	1F04	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	- 4F- 0	- 4F0h	- 4Fh:	- 4F0S	SF88	I I b
Robal&	: h72	11F- :	11F44	11F18	11F- -	1F18	I I b
RoI I er	6- 72	- 1F08	- 1F1-	- 1F26	- 1F- h	1F1S	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S8		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S0		G
DnOAum	11: 72				1S-		G
Don	: 472	21- - 2F41	2121- F68	21S44F64	211h6Fh1	SF68	I I b
Don	: 672	2Sh14F22	2S04SF61	2S0- 6F82	2S0h0F22	SF4h	I I b
Don	: 072	1h: 26F. 4	1h181F02	1h482F. 6	1h- h6Fh4	SFh0	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	14SF1h	1- 8FS:	1- 4F. 1	1- 0F. 8	2FS8	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	12hF2S	128F. 0	124F86	120F. 4	1F84	I I b
LeaO	2S871	1- hF88	1- 0F- 8	1- 4F88	1- 0F- 8	1F82	I I b
LA&EAum	671				h0		G
MagnesAum	2472	- 812F26	- 0h4Fhh	- 8S: F1:	- 8S4F1-	SF2-	I I b
Manganese	: : 72	2Sh: Fh-	2S46Fh0	2S24F- 1	2S: : F0-	1F08	I I b
Mol%bOenum	h471	: F06	: F0-	: F04	: F0:	SF21	I I b
Mol%bOenum	h: 71	2F20	2FS-	2F2S	2F10	: F66	I I b
Mol%bOenum	h671	2F. 8	2F. 8	2F. 2	2F. 6	1F4:	I I b
Mol%bOenum	h071	2F16	2F1-	2F- S	2F2S	4F1S	I I b
Mol%bOenum	h871	2F28	2F20	2F- :	2F- S	1Fh2	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	10Fh:	18F21	18F- -	18F16	1FS8	I I b
PEosI Eorus	- 172	610F41	680FS0	6S4F68	6- 6F- h	6Fh0	I I b
Po&assAum	- h72	2S61F. :	2S- - FS4	2S: SF02	2S48F44	SF0S	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S:		G
pqanOAum	4: 71				1S0		G
pqanOAum	4: 72				1SS		G
pelenAum	8271	SF6S	SF42	SF08	SF6S	2hF- -	I I b
pelenAum	0072	- 6F28	2: F. 1	- 0F2-	- - FS1	1hF0-	I I b
pelenAum	0872	: F02	: Fh-	: F8S	: F82	1F08	I I b
pAAqon	2871	100F2h	108FSS	18- F2h	10hF. -	1F82	I I b
pAver	1S071	SF21	SF2:	SF24	SF2-	1SF20	I I b
pAver	1Sh71	SF2-	SF21	SF2-	SF22	: F42	I I b
poOAum	2- 72	26- Fhh	2: 8F2:	2: 1F80	2: 8FS4	2F- :	I I b
p&ona&um	8671	11- F82	11: FS2	114F- h	114F41	SF. -	I I b
p&ona&um	8871	11hF. 2	122F66	12SF11	12SF06	1F- 8	I I b
pulfur	- 471	721h- F64	71h: : F4:	71: h0FS-	71h1: F- 8		I I b
i erbAum	1: h71				1S8		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF26	SF24	SF24	SF2:	: F8:	I I b
i EallAum	2S: 71	SF26	SF28	SF24	SF26	0F18	I I b
i An	11871	4FS4	- Fhh	4FS6	4FS-	SF88	I I b
i A&anAum	4071	h1F40	h1F40	h2Fh:	h1Fh6	SFh-	I I b
UranAum	2- 871	1F02	1F6h	1F68	1F0S	1F1-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	2: F04	26F22	2: F28	2: F0:	1F82	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11S		G
Y&&Aum	8h72				112		G
ZAnq	6672	1- 4F2h	1- 2FS1	1- 1F4:	1- 2F. h	1F1-	I I b
ZAqonAum	hS71	2F2S	2F- 6	2F2h	2F28	- F60	I I b
ZAqonAum	h171	2F21	2F24	2F42	2F2h	: FS:	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	226- 1U51	22: - 1USS	25686U22	24545U01	16U44	I I b
c n&Amon%	12171	- 0U6-	41U66	42U-1	4SU-4	6U2:	I I b
c rsenAq	0: 72	0S1U68	6: SU-5	850U2S	045U82	10U-6	I I b
BarAum	1- : 71	1016U-:	1844U22	18: - U-:	18S4U64	4U24	I I b
BarAum	1- 071	101: U-6	1818U16	185: U6:	18S5U02	: USS	I I b
Ber%IAum	571	- U01	- U50	- U08	- U82	- U-S	I I b
BAsmu&E	2S571				112		G
BAsmu&E	2S572				50		G
BromAne	8171						ql s
v aOmAum	1S871	5U00	12U48	11U40	11U24	12U15	I I b
v aOmAum	1S671	5U84	8U66	5U5-	5U48	0U48	I I b
v aOmAum	11171	5U5S	1SU66	1SU5-	1SU-S	: U12	I I b
v alqAum	4- 71	- 4S21U66	- 0S: 6U54	- 6416U65	- : 8- 1U06	4U40	I I b
v alqAum	4471	- : 2S6U22	- 8SS1USS6	- 0466U--	- 6851U2S	4USS2	I I b
v arbon	1271						ql s
v arbon	1272						ql s
v ElorAne	- : 71						ql s
v ElorAne	- : 72						ql s
v EromAum	: 272	- 0U-S	- 8U8-	: 1U1S	42U48	10U6:	I I b
v obal&	: 572	22U00	2- U64	- SU64	2: U68	16U8S	I I b
v ol I er	6- 72	12: USS8	126U2-	16: U-1	1- 8U54	16U-0	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
. rbAum	16471						ql s
. rbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
h olmAum	16: 71				112		G
h olmAum	16: 72				56		G
DnOAum	11: 71				11S		G
DnOAum	11: 72				5-		G
Don	: 472	- 84- 0USS5	- 8- 0SU6-	: 1- 0- U6-	42020U12	10U--	I I b
Don	: 672	- 0525U84	- 8: 51U52	: S25: U1S	42202U25	16U4:	I I b
Don	: 072	- : : 0- U10	- 6211U-1	40564U5S	- 5516U--	10U48	I I b
Kr%I &on	8- 71						ql s
LeaO	2S671	6: 0U-5	65- U-2	015U5:	65SU-:	4U--	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	6: SU2	601U0	65- U2	601U81	- U2S	I I b
LeaO	2S871	66- U6-	651U84	0S5US-	688U10	- U-	I I b
LA&EAum	671				1S2		G
y aMhesAum	2472	11- 26U46	11458U82	14524US2	12: 8- U1S	16U1-	I I b
y anManese	: : 72	61S: U28	6245U18	822- U05	68: 5U42	10U26	I I b
y ol%bOenum	5471	04U5	81U8S	8SU8	08U86	4U55	I I b
y ol%bOenum	5: 71	46US4	: 1US0	: SU50	45U6	: U8-	I I b
y ol%bOenum	5671	45U05	: - U:	: 4U80	: 2U04	: USS	I I b
y ol%bOenum	5071	40U8S	: 1US5	: SU62	45U84	- U0	I I b
y ol%bOenum	5871	46U0	: SU02	: SU50	45U:	: U24	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	- : U25	- : U1	40U10	- 5U26	10U4:	I I b
PEosI Eorus	- 172	6448U4	66- 4U8S	8818U68	0- SSU60	18US:	I I b
Po&assAum	- 572	865- U2-	8685US:	1144- US	56S8U-	16U4	I I b
CEoOAum	1S- 71				1S8		G
CEoOAum	1S- 72				5:		G
pqanOAum	4: 71				111		G
pqanOAum	4: 72				5-		G
pelenAum	8271	SU44	SU28	1U16	SU6-	0: U06	I I b
pelenAum	0072	6: U5S	68US5	80U-	0- U00	1: U55	I I b
pelenAum	0872	14U66	14U84	2- U2S	10U0	20U06	I I b
pAAqon	2871	160U24	182U68	105U80	106U6S	4U66	I I b
pAger	1S071	11U20	12U5	12U8	12US1	: U6	I I b
pAger	1S571	11U00	12U4:	12U66	12U25	- U08	I I b
poOAum	2- 72	11S1U2	111- US	1: S1U4-	12- 8U82	18U6	I I b
p&ona&Aum	8671	42: U6S	40SU81	4: 6U0-	4: 1US4	: U1-	I I b
p&ona&Aum	8871	4- : U0:	404U6	466U5S	4: 5US0	4U48	I I b
pulfur	- 471	72S1SU08	71261U4	71- 42U5	71: - 8U24		I I b
i erbAum	1: 571				111		G
i erbAum	1: 572				5:		G
i EallAum	2S- 71	- US4	- US4	- U2:	- U11	- U54	I I b
i EallAum	2S: 71	2U5-	- U14	- U24	- U1S	: U1:	I I b
i An	11871	1U52	2U2-	2U20	2U14	8U00	I I b
i A&anAum	4071	4S- U6-	444U46	4- 5U1:	425US8	: U10	I I b
RranAum	2- 871	11U46	12U4-	12US	12US6	4U6	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAn&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	: 172	- 40U18	- : 6U61	464U60	- 85U45	16U06	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8571				118		G
Y&&Aum	8572				1S1		G
ZAnq	6672	1865U85	1512U26	2: 16U6:	2S55U6S	10U2-	I I b
ZAqonAum	5S71	2SU15	22U6S	22U15	21U05	4U88	I I b
ZAqonAum	5171	21U42	22U6:	22U45	22U15	- US2	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y h SF- 6	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdPP u sb r 9	S6SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2- - N: U4J	2- 1: JU0-	22J2: U6-	2- 1: 6UJ:	SUJJ	DDe
q5Tb n5%	12171	41U0-	- 0U21	41U-6	4SU10	6U-N	DDe
qpwr 5cd	0: 72	0- 2UJ0	0- : U4S	0- : USS6	0- 4U40	SU1N	DDe
Bspcmb	1- : 71	0- NUSN	6: JUSS6	0- : U00	01SUJ0	6U-2	DDe
Bspcmb	1- 071	0NNU22	0S2UN-	002U-:	0: 4U40	6USS2	DDe
Br p%PPmb	J71	4USS1	- U-S	- U06	- U06	6UNS	DDe
Bcvb mTE	2SJ71				1SJ		G
Bcvb mTE	2SJ72				1S-		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1- U-S	1SU24	12U2N	11UJ4	1- USS-	DDe
v sob cmb	1S671	NU2S	JU-4	1SUS0	JU20	1SU42	DDe
v sob cmb	11171	11U1J	1SU22	1SU46	1SU62	4U0-	DDe
v sPdcmb	4- 71	4- 662U-	- J4- : U2:	420S: U60	41J- 4U42	: U2J	DDe
v sPdcmb	4471	4460SU4-	4S4N6U-2	440N1U16	4- - 12U64	: U6:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- : 71						dDw
v EPhpc5r	- : 72						dDw
v Epmb cmb	: 272	- SUNJ	- SU-0	- SU-4	- SU6S	SUJS	DDe
v nesPT	: J72	22U-0	22U2J	22U2:	22U-1	SU20	DDe
v nDDr p	6- 72	1: NU6S	1: 6U1S	1: 0UJ-	1: 0U-4	SUN2	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				11S		G
h nPb cmb	16: 72				1S:		G
t5ocmb	11: 71				1SN		G
t5ocmb	11: 72				JN		G
tpn5	: 472	- 0140USS6	- 02S- UN-	- 62: JUNN	- 6N0SU26	1U44	DDe
tpn5	: 672	- 6- 66U44	- 61- 1UNN	- : 6: 4U-4	- 6S: SUJ:	1USS1	DDe
tpn5	: 072	- 42: 2U1S	- - 0J4U4:	- - 02NU-	- - J2: USS-	SUN4	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	6- NU1-	: : 1U66	6S4U-N	: JNU12	0U2J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF- 6	&dPmTm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	610U6	: 46US2	: J2U42	: N: U20	6U1J	DDe
Lr so	2SN71	620UJS	: 4JUJJ	6S2UJ	: J- U4-	6U6J	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	J60SU6:	J64- U2J	JN61UJ0	J02: UJS	1U2-	DDe
y s5Ms5r wr	: : 72	6440UNt	6- - : UJ:	62NSU20	6- : 4U6J	1UJ4	DDe
y nP%eor 5mb	J471	N6UJ	06UJJ	N2U24	N1UN0	: U0:	DDe
y nP%eor 5mb	J: 71	: NUJ2	: 2U14	: 4UN2	: : U16	: UNS	DDe
y nP%eor 5mb	J671	61U6N	: 4U42	: NU6S	: NU2-	6U26	DDe
y nP%eor 5mb	J071	: NU6N	: - U4:	: 4UNt	: : U66	4UN0	DDe
y nP%eor 5mb	JN71	: NU0:	: - U1-	: : U44	: : U00	: US6	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	- 6U0:	- : UJ2	- 6UJ-	- 6UJ-	1U1:	DDe
8 EnwDEnpmw	- 172	: : 1: U2:	: : N: U2-	: 4: SUS4	: : 16UN4	1U2-	DDe
8 nTswwcmb	- J72	NNJ4U46	JSS0U44	NN2NUSS	NJSJUJ0	1US2	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
l ds5ocmb	4: 71				1SN		G
l ds5ocmb	4: 72				JJ		G
l rP 5cmb	N271	SUJS	SU6N	1US1	SUN6	1JU2N	DDe
l rP 5cmb	0072	: 0UJ4	: 1U21	: JUJ1	: 6U22	0UN4	DDe
l rP 5cmb	0N72	1- U21	16U0J	12U6-	14U21	1: UNN	DDe
l dcln5	2N71	1J: UN2	10: U2-	1J1U1N	1N0U41	: U06	DDe
l dgr p	1S071	12USJ	1SU6-	11U4J	11U4S	6U4:	DDe
l dgr p	1SJ71	11UJ0	1SUJ:	11UJ0	11UJS	4U40	DDe
l nocmb	2- 72	1SS0UN1	1SS4U26	1SS1US0	1SS4UJN	SUJ4	DDe
l Tpm5Tcmb	N671	: : JUJ6	4NNU60	: - SU1-	: 26U26	6UNS	DDe
l Tpm5Tcmb	NN71	: 6- UJ-	: SJU66	: - NU02	: - 0U24	: USS	DDe
l mPmp	- 471	0142USN	: - 06U42	0S66U40	6: 2NUJ2	1: U2J	DDe
Ar pecmb	1: J71				1SJ		G
Ar pecmb	1: J72				1S4		G
AEs Pbmb	2S- 71	2UN1	2U44	2UJ0	2U61	0U2:	DDe
AEs Pbmb	2S: 71	2UN1	2U4S	2U0-	2U64	NU2J	DDe
Ad5	11N71	2USN	2U1J	2U11	2U1-	2U0-	DDe
Ad5 5cmb	4071	- 00UN6	- - : UJJ	- 60U4N	- 6SU24	6U1:	DDe
Rps5cmb	2- N71	1- US1	11U1:	12UJ-	12U16	0U06	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	- 1- UJ0	- 16U60	- 12UN0	- 14U S	SU62	DDe
YTTr pe omb	10271						dDw
YTTr pe omb	10272						dDw
YTTr pe omb	10671						dDw
YTTr pe omb	10672						dDw
YTTpomb	NJ71				114		G
YTTpomb	NJ72				1S4		G
Zc5d	6672	1N- 2U J	1N- 4UJ-	10J- U66	1N2SU4S	1U20	DDe
Zqpdn5omb	JS71	21U0:	1JU11	21U26	2SU01	6UNS	DDe
Zqpdn5omb	J171	22U44	1JU2N	21U2J	21U$S	0U J	DDe

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UndTw
Pmb cncmb	2072	1- h6hFN-	1- N90F2h	1- 022FSS	1- N4hF01	SFhS	DDe
nTb on%	12171	SF09	SF06	SF0h	SF06	2F0N	DDe
pwr ncq	0972	N2FS2	N9F11	N6F46	N4F9-	2F6h	DDe
Bspcmb	1- 971	- 04F99	- N1F6S	- N- F49	- 0hFN0	1F24	DDe
Bspcmb	1- 071	- 0NF6-	- 0NFh1	- N4F4-	- NSF66	SFN6	DDe
Br p%PPmb	h71	1F69	1F6N	1F69	1F66	1F2N	DDe
Bcwb mTE	2Sh71				1S0		G
Bcwb mTE	2Sh72				1S9		G
Bpob cnr	N171						qDw
RsCb cmb	1SN71	1Fh6	1Fh4	2F1N	2FS2	6F6S	DDe
RsCb cmb	1S671	SF96	7- FS9	71FS2	71F10		DDe
RsCb cmb	11171	1F9-	1F- 9	1F- h	1F42	6F61	DDe
RsPqcmb	4- 71	1N- 1- F04	1N244Fh9	1N24- F- 6	1N260F- 9	SF22	DDe
RsPqcmb	4471	1h1- 4FNS	1hSS- F9S	1NN46F2S	1Nhh4FN-	SF06	DDe
Rspeon	1271						qDw
Rspeon	1272						qDw
REPpcnr	- 971						qDw
REPpcnr	- 972						qDw
REpob cmb	9272	22F91	22F49	22FS0	22F- 4	1FS0	DDe
RoesFT	9h72	16Fh1	10F94	16FN0	10F1S	2F1h	DDe
RoDDr p	6- 72	09F92	04FN6	04Fh2	09F1S	SF4N	DDe
&%wDpowcmb	19671						qDw
&%wDpowcmb	19672						qDw
Cpecmb	16471						qDw
Cpecmb	16472						qDw
HsCbPhcmb	16S71						qDw
HsCbPhcmb	16S72						qDw
y oPb cmb	16971				1Sh		G
y oPb cmb	16972				1S4		G
tnOcmb	11971				1S6		G
tnOcmb	11972				hh		G
tpon	9472	42NS6F21	42hS6FN9	4- S62F42	42h29F16	SF- S	DDe
tpon	9672	4264NF9N	42- 1SFNh	41N6NF02	42206FS6	SFh-	DDe
tpon	9072	42916FNN	42hN2F16	4199NF6N	42- 92F9N	1F01	DDe
Kp%DTon	N- 71						qDw
Lr sO	2S671	NhF91	N6F0h	N0Fh6	NNFSN	1F99	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UncTw
Lr sO	2S071	N9F92	N2FN2	N- FNh	N4FSN	1F62	DDe
Lr sO	2SN71	N6F4N	N4F9-	N0FS4	N6FS2	1F94	DDe
LdEomb	671				hh		G
Msgnr womb	2472	69h1FN6	6091FhS	66N9F46	6606F41	1F2S	DDe
Msngsnr wr	9972	hh6F6S	1SS1F6N	hh4F9-	hh0F6S	SF- 0	DDe
MoP%eOr nmb	h471	12FS9	11FNh	11Fh6	11Fh0	SF66	DDe
MoP%eOr nmb	h971	1FN6	1FNS	1F6-	1F06	6FN2	DDe
MoP%eOr nmb	h671	2Fh1	2F06	2FN1	2FN-	2F6-	DDe
MoP%eOr nmb	h071	1F6-	1F6N	1F01	1F60	2F29	DDe
MoP%eOr nmb	hN71	1F04	1F0h	1F00	1F00	1F4S	DDe
u r oO%b omb	19S71						qDw
u r oO%b omb	19S72						qDw
u oqkr P	6S72	- - F24	- - F- h	- - F14	- - F26	SF- 0	DDe
8 EowDEopmw	- 172	- 62SFN-	- 4- 1F96	- - 4NF29	- 466FNN	4FS-	DDe
8 oTswwomb	- h72	92SNF- h	9- 91Fhh	9210F20	929hF22	1F9-	DDe
5 EoOomb	1S- 71				1S6		G
5 EoOomb	1S- 72				1S-		G
I qsnOomb	4971				1SN		G
I qsnOomb	4972				hh		G
I r PnomB	N271	1Fh2	1F96	1F69	1F01	11FS0	DDe
I r PnomB	0072	- 0F- -	4SF06	2hF94	- 9FNN	16FS2	DDe
I r PnomB	0N72	NFN2	6F06	1SF6h	NF06	22F4h	DDe
I dRqon	2N71	290F- 1	29- F0-	24SF- 2	29SF46	- F9N	DDe
I dPr p	1S071	SF- 6	SF4S	SF- 0	SF- N	9F6N	DDe
I dPr p	1Sh71	SF- h	SF- N	SF- 9	SF- 0	9FhS	DDe
I oOomb	2- 72	1hNF60	1h4F4h	1hhF02	1h0F6-	1F4S	DDe
I TponTomb	N671	162F6S	169F11	162FSh	16- F20	SFhh	DDe
I TponTomb	NN71	16NFh-	101F06	16hF20	16hFhN	SFh1	DDe
I mPmp	- 471	7h0NF4S	712N2F1N	71- 2SFNN	711h- FN2		DDe
Ar peomb	19h71				11S		G
Ar peomb	19h72				1S-		G
AEsRPmb	2S- 71	SF- 6	SF- 9	SF- 6	SF- 9	2F10	DDe
AEsRPmb	2S971	SF- 1	SF- 1	SF- 2	SF- 1	SF6S	DDe
Aon	11N71	1F46	1F94	1F91	1F9S	2F96	DDe
AdSnomb	4071	11hF46	110F- 0	119F4h	110F44	1F6h	DDe
Upsnomb	2- N71	- F- 4	- F20	- F- 9	- F- 2	1F20	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr OJ	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 sspsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UncTw
VsnsOcmb	9172	9hF96	9NFh1	9hF9-	9hF- -	SF62	DDe
YTTr pecmb	10271						qDw
YTTr pecmb	10272						qDw
YTTr pecmb	10671						qDw
YTTr pecmb	10672						qDw
YTTpcmb	Nh71				11-		G
YTTpcmb	Nh72				1SN		G
Zcnq	6672	- 2- FS2	- 1hFS6	- 10F06	- 1hFh4	SFN6	DDe
Zqqqoncmb	hS71	9Fh1	9FN2	9Fh-	9FNh	SFh0	DDe
Zqqqoncmb	h171	9FN6	6F44	6FS-	6F11	4FN6	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&wUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
c&umA5Aum	20:2	1F7a	1F52	1F 1	1F47	71F71	l l b
c5&Amn5h	121:1	SF51	SF51	SF5S	SF51	4aF26	l l b
crl e5Aq	0-:2	SF52	SF57	SF52	SF52	27Fa	l l b
BwrAum	17-:1	SF1S	SF51	SF54	SF5-	a0F60	l l b
BwrAum	170:1	SF17	SF52	SF51	SF56	121F-6	l l b
Berh8Aum	:1	SF52	SF52	SF51	SF52	74F1a	l l b
BAmu&%	2S :1				1S-		E
BAmu&%	2S :2				1S2		E
BrnmA5e	a1:1						ql l
CwOmAum	1Sa:1	:SF1S	:SF1S	:SF52	:SF50		l l b
CwOmAum	1S6:1	:6F22	:0Fa7	:6F2-	:6F00		l l b
CwOmAum	111:1	:SF54	:SF5-	:SF5-	:SF5-		l l b
Cw&qAum	47:1	2F 4	1F56	:SF1S	1F7S	110F 6	l l b
Cw&qAum	44:1	10F51	12F66	1-F2-	14F 0	14F64	l l b
Cwrbn5	12:1						ql l
Cwrbn5	12:2						ql l
C%&nrA5e	7-:1						ql l
C%&nrA5e	7-:2						ql l
C%nmAum	-2:2	SF57	:SF57	SF12	SF54	1a-F0	l l b
Cnbw&&	- :2	SF5S	SF5S	SF5S	SF5S		l l b
CnI l er	67:2	SF26	SF1-	SF22	SF21	26F -	l l b
t hl l rnl Aum	1-6:1						ql l
t hl l rnl Aum	1-6:2						ql l
. rbAum	164:1						ql l
. rbAum	164:2						ql l
GwOn&5Aum	16S:1						ql l
GwOn&5Aum	16S:2						ql l
Hn&mAum	16-:1				1S4		E
Hn&mAum	16-:2				1S4		E
D5OAum	11-:1				1S4		E
D5OAum	11-:2				1SS		E
Dn5	-4:2	1Fa-	2F7-	1F5S	1F07	7 F22	l l b
Dn5	-6:2	SF0a	2F7a	1F4S	1F-2	-7F5S	l l b
Dn5	-0:2	:SF50	7F51	2F14	1F6	4F57	l l b
Krhl &a5	a7:1						ql l
LewO	2S6:1	SF17	SF5a	SF5a	SF1S	2aF6a	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WJA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
LewO	2S0:1	SF14	SF5	SF5	SF11	27F16	I I b
LewO	2Sa:1	SF12	SF5a	SF5	SF1S	27F46	I I b
LA&%Aum	6:1				-		E
y wW5el Aum	24:2	SF- -	1F-4	SFa	SF	- 1F5	I I b
y w5Mw5el e	- - :2	SF11	SF16	SF40	SF2-	0aF0a	I I b
y n8nbOe5um	4:1	SF56	SF5-	SF5S	SF54	a4F06	I I b
y n8nbOe5um	- :1	SF52	SF52	SF57	SF52	7- F26	I I b
y n8nbOe5um	6:1	SF56	SF52	SF51	SF57	00F4S	I I b
y n8nbOe5um	0:1	SF57	SF52	SF5S	SF52	1S4F-4	I I b
y n8nbOe5um	a:1	SF52	SF51	SF51	SF51	0SFaa	I I b
NenOhmAum	1- S:1						ql l
NenOhmAum	1- S:2						ql l
NAqke8	6S:2	:SF52	SF52	SF51	SF5S	1S- 6F2S	I I b
3%nl l %nrul	71:2	:0SF7-	:4 F- -	:71Fa6	:- SF-		I I b
3n&wl l Aum	7 :2	:SF60	:6F44	7F52	:1F76		I I b
v %nOAum	1S7:1				1S7		E
v %nOAum	1S7:2				1S4		E
pqw5OAum	4- :1				1S2		E
pqw5OAum	4- :2				6		E
pe&e5Aum	a2:1	:SF10	:SF27	:SF14	:SF1a		I I b
pe&e5Aum	00:2	1F S	:SF7a	:SF7a	SF7a	744F50	I I b
pe&e5Aum	0a:2	SF5	:SF1-	SF62	SF1	21SF0S	I I b
pA&qn5	2a:1	SF5S	:SF12	SF5S	:SF54		I I b
pA&ger	1S0:1	SF51	SF51	SF51	SF51	40F74	I I b
pA&ger	1S :1	SF52	SF52	SF51	SF52	7SF4	I I b
pnOAum	27:2	F64	0F7S	F41	aF0a	14F0S	I I b
p&n5&Aum	a6:1	SF50	SF50	SF1S	SF5a	21F12	I I b
p&n5&Aum	aa:1	SF5	SF54	SF57	SF5-	- 1F S	I I b
pu&ur	74:1	:270SFaa	:22 6F54	:2S42F-	:2276F-S		I I b
i erbAum	1- :1				1S4		E
i erbAum	1- :2				1S7		E
i %w&Aum	2S7:1	SF54	SF56	SF56	SF5-	24F2-	I I b
i %w&Aum	2S- :1	SF5-	SF54	SF5-	SF5-	12F	I I b
i A5	11a:1	:SF57	SF5S	SF5S	:SF51		I I b
i A&w5Aum	40:1	:SF54	:SF5-	:SF52	:SF54		I I b
Rrw5Aum	27a:1	SF5S	SF5S	SF5S	SF5S	144F07	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw8ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8Ae5&pwml &e9D 9J9	3Bp 21	t A&u&Ah59Uwq8ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
Vw5wOAum	-1:2	SF5S1	SF5S2	SF5S1	SF5S1	41F10	l l b
Y&erbAum	102:1						ql l
Y&erbAum	102:2						ql l
Y&erbAum	106:1						ql l
Y&erbAum	106:2						ql l
Y&&Aum	a :1				1S1		E
Y&&Aum	a :2				1S4		E
ZA5q	66:2	:SF5S0	SF12	SF1S	SF5-	222F66	l l b
ZAqn5Aum	S:1	SF5S1	:SF5S1	:SF5S2	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S7	SF5SS	:SF5S1	:SF5S1		l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WJA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	72F-2	7-F--	77F6S	77FN	4F-2	l l e
c5&b n5h	12191	7FS0	7F1S	7F17	7F1S	SF 1	l l e
cpl r 5Aq	0-92	1F01	1F00	1FN	1F0	-F12	l l e
BwpAmb	17-91	1-F 1	1-F6	1-F7S	1-F67	1F 6	l l e
BwpAmb	17091	1-F20	1-F2	1-F7	1-F72	SF4S	l l e
Br ph8Amb	91	1F66	1F-4	1F-N	1F-	4FS0	l l e
BAb m8%	2S 91				1S7		E
BAb m8%	2S 92				1S7		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F77	1F-4	1F17	1F77	1-F67	l l e
CwCb Amb	1S691	92F74	94F74	92F71	97FSS		l l e
CwCb Amb	11191	1FNN	1F6-	1F61	1F02	NF--	l l e
Cw&pAmb	4791	00NF10	6 6F41	6 -F46	027F74	6F-6	l l e
Cw&pAmb	4491	0NNF66	0SSF-0	01NFN	076FS4	6F72	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&np5r	7-91						ql l
C%&np5r	7-92						ql l
C%pmb Amb	-292	7F76	7F40	7F16	7F77	4F0	l l e
Cnew&&	- 92	1F0S	1F0	1F6	1F07	7F2-	l l e
CnI l r p	6792	7F-7	7FN6	7F62	7F60	4F-0	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8&5Amb	16S91						ql l
GwOn8&5Amb	16S92						ql l
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S4		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S1		E
Dpn5	-492	722F---	776F0N	77SF 6	77SF1S	2F10	l l e
Dpn5	-692	777F62	742F10	771F4N	77-F06	1F6	l l e
Dpn5	-092	71 F1-	77-F 1	724F4N	726F-1	2F62	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F-0	1F-S	1F-7	1F-7	2F2-	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C&A5&J wb l &JD JaJ	LC: 21	t A&m&A5JJwq&apJa	1
t w&JTJ A&r Jc qdmA&r QJa	2S279S0912J1-a41a47	t w&wJA&JuwbrJa	S67LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-N	1F-S	1F-N	4F-	I l e
Lr wO	2SN91	1F67	1F-2	1F-S	1F-	4F20	I l e
LA&%Amb	691				4		E
y wM5r l Amb	2492	N-1F S	S6F5-	N6SFN-	N02F 7	7F77	I l e
y w5Mw5r l r	- - 92	1F64	1F04	1F62	1F60	7F S	I l e
y n8neOr 5mb	491	F22	NF6	NF1	NF0S	- F 6	I l e
y n8neOr 5mb	- 91	0FN7	0F1S	0F7S	0F41	- F5	I l e
y n8neOr 5mb	691	0F S	0F56	0F4N	0F4N	- F-0	I l e
y n8neOr 5mb	091	NF17	0F21	0F52	0F4-	0F -	I l e
y n8neOr 5mb	N91	0F67	0F22	0F2S	0F7-	7F7-	I l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1F 0	1FN2	1F 1	4F46	I l e
3 %nl l %npm	7192	914F-4	9-NF27	9-6FN7	947F2S		I l e
3 n&w l Amb	7 92	N11F17	N4NFS6	NS-F00	N21F6-	2FNS	I l e
v %nOAmb	1S791				1SS		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4-91				1S1		E
: qw5OAmb	4-92				0		E
: r & 5Amb	N291	0F42	NF07	0F--	0F S	F1-	I l e
: r & 5Amb	0092	NF12	1SF51	FN-	F77	11F24	I l e
: r & 5Amb	0N92	0F4S	F52	0F 1	NF11	1SF2S	I l e
: A&qn5	2N91	1F77	SFN7	SF 4	1F57	2-F24	I l e
: A&gr p	1S091	1F60	1F-	1F-S	1F-	- F74	I l e
: A&gr p	1S 91	1F62	1F-6	1F6S	1F-	1FN-	I l e
: nOAmb	2792	N77F-	NN7FN-	N16F16	N44F-4	4F16	I l e
: &pn5&Amb	N691	1F60	1F-0	1F-7	1F-	4F-7	I l e
: &pn5&Amb	NN91	1F60	1F-4	1F-1	1F-0	- F21	I l e
: m&mp	7491	91266FSS	922N-F-	91 61F-0	91N70F02		I l e
i r peAmb	1- 91				1S4		E
i r peAmb	1- 92				1S2		E
i %w&Amb	2S791	1F-6	1F40	1F-S	1F-1	2F 0	I l e
i %w&Amb	2S-91	1F-0	1F-1	1F-6	1F-	2F50	I l e
i A5	11N91	SF5S	SF52	SF57	SF52	N2F4S	I l e
i A&w5Amb	4091	NF-4	0F7-	0F5N	0F66	1SF12	I l e
Rpw5Amb	27N91	1F-S	1F7-	1F70	1F41	- F0N	I l e

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Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 21	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WJA8 Ju wb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF-N	NF4	NF-2	NF-7	SF-2	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	NF66	NFSN	NF4	NF41	7F-	l l e
ZAqn5Amb	S91	1F-4	1F4-	1F41	1F40	4F04	l l e
ZAqn5Amb	191	1F6	1F70	1F4N	1F-1	1SF-4	l l e

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1h26: F1S	1h- 0: F46	1hSh4F2S	1h244Fh2	SF04	I I b
c n&Amon%	12171	SF- 8	SF42	SF42	SF41	4F0:	I I b
c rsenAq	0: 72	18F0-	1hFS:	18F6:	18FB1	1F1-	I I b
BarAum	1- : 71	- : 1F6S	- 08F08	412F66	- 81FS1	8FS-	I I b
BarAum	1- 071	- 6: FB2	- 8SF66	410F0h	- 88FSh	6FhS	I I b
Ber%lAum	h71	1F16	1F28	1F- 0	1F20	8F. 4	I I b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F16	SF0:	SFh:	SFh:	21F68	I I b
RaOmAum	1S671	7- F28	74FS1	7SF01	72F60		I I b
RaOmAum	11171	SFB1	SF06	SFB:	SFB1	: F. 1	I I b
RalqAum	4- 71	- hS0SF08	42S- SFh1	4: - S1F01	421- 4F46	0F4S	I I b
RalqAum	4471	- h82hFB1	4- 164F00	46ShSFS0	4- S28F21	0F28	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	2- Fh1	22FBS	2- F11	2- F20	2F46	I I b
Robal&	: h72	1- F4S	1- F. :	1- F0h	1- F. 8	1F40	I I b
Rol I er	6- 72	- 2F. -	- 2Fh6	- 2F24	- 2F. 0	1F11	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S4		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	- 6126F1h	- 06S1Fh6	- 6242F1:	- 66: 6F00	2F24	I I b
Don	: 672	- 6: 00F0S	- 062hF- 6	- : h10FSS	- 60S8FS2	2F- :	I I b
Don	: 072	- 44S6F6:	- 4612F68	- 4146FB0	- 4- 88F0-	SF68	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	: 1F0:	: : F60	: hF0h	: : F04	0F21	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4hFS6	: 2F62	: 6F0:	: 2FB1	0F2h	I I b
LeaO	2S871	: SF4-	: 4FS-	: 8F0-	: 4F4S	0F64	I I b
LA&EAum	671				1SS		G
MagnesAum	2472	1: 626F2:	1: 88: F46	1: h6- F21	1: 824Fh0	1F11	I I b
Manganese	: : 72	60- F06	682Fh1	66hF4-	60: F- 0	1FS2	I I b
Mol%bOenum	h471	4F0:	: F40	: F62	: F28	8F08	I I b
Mol%bOenum	h: 71	1F4h	1F6S	1FBS	1F6-	hF4h	I I b
Mol%bOenum	h671	1F00	2F1S	2F1:	2FS1	1SF42	I I b
Mol%bOenum	h071	1F. 1	1F66	1F66	1F61	: F- :	I I b
Mol%bOenum	h871	1F46	1F62	1FB6	1F6:	12FSh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	20F- 0	28FSS	20F- 1	20F. 6	1F- h	I I b
PEosI Eorus	- 172	1h8- F04	2Sh2F40	1hh0F- 0	2S24F. 2	2Fh-	I I b
Po&assAum	- h72	624hF21	62- 2FhS	6264F62	6248Fh1	SF2:	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S1		G
pqanOAum	4: 71				1Sh		G
pqanOAum	4: 72				h8		G
pelenAum	8271	SF- h	SF. 8	SFh4	SF64	44F1:	I I b
pelenAum	0072	2SF10	2: F4S	- : F. 2	20FS-	28FB8	I I b
pelenAum	0872	0F48	0F- S	4FB2	6F. -	22FB2	I I b
pAAqon	2871	21: FB1	2- 2F- S	2: 1F20	2- - F1-	0F61	I I b
pAver	1S071	SF- 1	SF24	SF20	SF28	1- F20	I I b
pAver	1Sh71	SF2h	SF2h	SF- :	SF- 1	11F00	I I b
poOAum	2- 72	4: 1FB8	40- F1h	466F1:	46- F04	2F- 4	I I b
p&ona&um	8671	- - 2F28	- 0- F- h	- 8- F1S	- 62Fh2	0F4-	I I b
p&ona&um	8871	- 41FS1	- 8SF1h	- 8hF- 0	- 0SF1h	6Fh4	I I b
pulfur	- 471	72S6hF- 0	7144hFB2	78S1F62	7144SF20		I I b
i erbAum	1: h71				112		G
i erbAum	1: h72				1S:		G
i EallAum	2S- 71	SF- 6	SF42	SF4S	SF4S	0F08	I I b
i EallAum	2S: 71	SF4S	SF4S	SF44	SF41	: FB4	I I b
i An	11871	1FS6	1F16	1F- -	1F1h	11F40	I I b
i A&anAum	4071	8hF28	h0FB-	1S1F- S	h6F14	6F4-	I I b
UranAum	2- 871	2FS0	2F1-	2F- 4	2F18	6F68	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: : F- S	: : Fn:	: : F20	: : F. 1	SF68	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11-		G
Y&&Aum	8h72				1S6		G
ZAnq	6672	168F0-	101FS1	164F. 8	168F11	1Fn4	l l b
ZAqonAum	hS71	2FS1	2F- h	2F44	2F28	1SF28	l l b
ZAqonAum	h171	2FS6	2F- 0	2F. -	2F- 2	1SF- S	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1624SF0-	1: 064FSS	1: 62: F00	1: 806F8-	2FS-	I I b
c n&Amonh	12171	SF= 4	SF4:	SF= %	SF= %	1- F2%	I I b
c rsenAq	0: 72	21F28	21F88	2SF4%	21F22	- F28	I I b
BarAum	1- : 71	- 16F2S	- 6- F6S	- 26F68	- - : F4%	0F42	I I b
BarAum	1- 071	- 18F. 4	- 64F8%	- - %F06	- 41FS0	6F8S	I I b
BerhlIAum	%71	1FS-	1F22	1FS2	1FS%	1SF6%	I I b
BAsmu&E	2S%71				1S-		G
BAsmu&E	2S%72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	SF0%	1FS2	SF04	SF8:	10F41	I I b
RaOmAum	1S671	72F%6	7SF2S	1FS4	7SF01		I I b
RaOmAum	11171	SF08	SF8:	SF06	SF8S	6F= -	I I b
RalqAum	4- 71	- 6S: %F64	4S248F= %	- 6002F8%	- 06% F64	: F%	I I b
RalqAum	4471	- 6: 80FS:	41%%%F1-	- 6%6%F0%	- 8: 18F66	0F84	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1%F: %	1%F: 0	1%F: 4	1%F: 0	SF1:	I I b
Robal&	: %72	12F08	12F%8	12F62	12F0%	1F= 8	I I b
RoI I er	6- 72	20F88	20F: 4	20F6-	20F68	SF6-	I I b
t hsI rosAum	1: 671						ql s
t hsI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S:		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S-		G
DnOAum	11: 72				1SS		G
Don	: 472	- - : 01F01	- - 264F= 4	- 28: SF06	- - 228F%4	1FS%	I I b
Don	: 672	- - 1: 8F88	- 26%4F%	- 2: 04F24	- 28S%F= 6	SF%4	I I b
Don	: 072	- 1126F86	- 111- F41	- S1% F: %	- S811F28	1F04	I I b
Krhl &on	8- 71						ql s
LeaO	2S671	48F68	: 2F%d	: 1F= 2	: SF%0	4F2S	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	46F0%	: 1F86	4%F- %	4%F- :	: F14	I I b
LeaO	2S871	40F6%	: 2P%0	4%F- %	: SF52	: F- %	I I b
LA&EAum	671				%		G
MagnesAum	2472	122S2F02	1186- F4%	116- - F40	118%%F8%	2F41	I I b
Manganese	: : 72	6S8P%2	: %%P%6	: %6F24	6S1F01	1FS8	I I b
MolhbOenum	%471	4F66	: F- S	: FS-	: FSS	6F- 0	I I b
MolhbOenum	% 71	1F. 1	1F0-	1F6-	1F62	6F01	I I b
MolhbOenum	%671	1F88	2FS8	1P%6	1P%0	4P%4	I I b
MolhbOenum	%071	1F. -	1F82	1F. 8	1F64	%F64	I I b
MolhbOenum	%871	1F40	1F6%	1F. 6	1F. 0	6P%	I I b
NeoChmAum	1: S71						ql s
NeoChmAum	1: S72						ql s
NAqkel	6S72	20F41	26FS2	26F1S	26F. 1	2P%4	I I b
PEosI Eorus	- 172	148SF14	12%%F11	1- 0- F46	1- 84F24	6F. 0	I I b
Po&assAum	- %72	484: F22	460SF- 2	40- 0FS2	40: SF8:	1F86	I I b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4: 71				1S-		G
pqanOAum	4: 72				%%		G
pelenAum	8271	SF00	SP%	SP%.	SF88	1SP%8	I I b
pelenAum	0072	28F80	- %F41	- 1F- 1	- - F1%	16F62	I I b
pelenAum	0872	0F18	: F14	: F40	: P%.	18F40	I I b
pAAqon	2871	224FS6	248F44	242F1-	2- 8F21	: F- 1	I I b
pAver	1S071	SF28	SF- 2	SF20	SF2%	%P%%	I I b
pAver	1S%71	SF- 1	SF- 4	SF- S	SF- 2	0F0S	I I b
poOAum	2- 72	442F4-	4- 2FS%	428F44	4- 4F- 2	1F60	I I b
p&on&Aum	8671	2%0F41	- 22FS0	- S- F64	- S0F01	4F10	I I b
p&on&Aum	8871	- S2F1-	- - 4F42	- 16FS0	- 10F. 4	: F1S	I I b
pulfur	- 471	71440F21	7- 0: F26	712: - F- 2	71S2: F26		I I b
i erbAum	1: %71				1S6		G
i erbAum	1: %72				1S4		G
i EallAum	2S- 71	SF- 1	SF- -	SF- 0	SF- 4	8F10	I I b
i EallAum	2S: 71	SF- -	SF- :	SF- :	SF- :	2F86	I I b
i An	11871	SP%1	1FS%	1F- 4	1F11	1%F18	I I b
i A&anAum	4071	06F- 0	8- FS8	0: F60	08F- 0	: F22	I I b
UranAum	2- 871	1F08	1P%8	1F80	1F88	: F- S	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: SF%	: 2F2:	: SF%0	: 1F- 8	1F46	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				1S0		G
Y&&Aum	8%72				1S6		G
ZAnq	6672	1- 0F88	1- SF4:	1- : F%%	1- 4F00	2F80	l l b
ZAqonAum	%S71	1F%%	2F2S	1F%	2FS:	6F: S	l l b
ZAqonAum	%171	1F%8	2F2S	1F88	2FS2	0F%4	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RlAn&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	18h: - F- h	1818: F2:	10: 1SFh:	18216F. -	- Fh6	I I b
c n&mon%	12171	SF- S	SF- 4	SF- 1	SF- 2	: F04	I I b
c rsenAq	0: 72	16F22	1: F26	1: F- 4	1: F61	- F41	I I b
BarAum	1- : 71	: 04F46	: 61F. :	: 6: F8h	: 60F- S	1F16	I I b
BarAum	1- 071	: 8hF. 1	: 0- F. S	: 6hF12	: 00F- 0	1F86	I I b
Ber%lAum	h71	: F1 S	4Fh2	4Fh:	4Fhh	1Fh2	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	1F60	1F- 6	1FhS	1F64	16F4:	I I b
RaOmAum	1S671	: F20	6F- 4	- F. :	: FS:	20Fh-	I I b
RaOmAum	11171	1F4S	1F41	1F4-	1F41	1F1h	I I b
RalqAum	4- 71	12060F68	1- S00F80	120- 8F28	12861F28	1F46	I I b
RalqAum	4471	1- : 82F- h	1- 2: 6F6S	1- - : 1F. S	1- - h6F8-	1F2:	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- : 71						ql s
RElorAne	- : 72						ql s
REromAum	: 272	1: F2-	14Fh0	14F44	14F88	2F0S	I I b
Robal&	: h72	1- F. 8	1- F- S	12Fh4	1- F28	2F42	I I b
Rol I er	6- 72	2hF44	28FS:	20FS:	28F18	4F26	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	: 800hF- S	: 8668F- 2	: 4h21F2-	: 04: 6F28	- F82	I I b
Don	: 672	: hS6- F. 6	: 684hF. S	: : 1S: F- -	: 0SS6F1-	- F48	I I b
Don	: 072	6S64SFh:	: 68h8Fh:	: 6S- hF86	: 08: hFh2	4F2-	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	06FhS	0: F08	04F- 6	0: F68	1F68	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	02Fh0	02F01	0SF- S	02FSS	2FS4	I I b
LeaO	2S871	00F21	0: Fh-	04F86	06FSS	1F: :	I I b
LA&EAum	671				h0		G
MagnesAum	2472	: 08hF62	: 612F0S	: - hhF48	: 6SSF6S	- F4h	I I b
Manganese	: : 72	- : S8F4h	- 4- 4F44	- 206F48	- 4S6F40	- F48	I I b
Mol%bOenum	h471	4F60	4F02	4F64	4F68	SFh:	I I b
Mol%bOenum	h: 71	2F- 1	2F4S	2F21	2F- 1	4FS2	I I b
Mol%bOenum	h671	2F: 1	2F: :	2F46	2F: 1	1F8:	I I b
Mol%bOenum	h071	2F- 4	2F- h	2F2:	2F- -	- FSS	I I b
Mol%bOenum	h871	2F- 6	2F2-	2F1-	2F24	4Fhh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	24F- h	2- F2-	22F46	2- F- 6	4F14	I I b
PEosI Eorus	- 172	1- : 0F2:	1- 88Fh4	1- 16F: 4	1- : 4F24	2F68	I I b
Po&assAum	- h72	h8- 6F40	h608F- 1	h16: F68	h: 6SF1:	- F60	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				hh		G
pelenAum	8271	2F0h	2F02	- FS1	2F84	: F28	I I b
pelenAum	0072	100F4-	101F- h	16: F: :	101F46	- F40	I I b
pelenAum	0872	- 2F64	- 6F88	- - F22	- 4F24	6F01	I I b
pAAqon	2871	2- : F- 0	2: SFh4	2- 6Fh:	241FSh	- F: :	I I b
pAver	1S071	SF2h	SF2h	SF26	SF28	6F6S	I I b
pAver	1Sh71	SF- S	SF- :	SF28	SF- 1	12F11	I I b
poOAum	2- 72	122Fh4	11- F84	1S: FS:	11- Fh:	0F8:	I I b
p&on&Aum	8671	0: F: 6	06F84	04F04	0: F01	1F4S	I I b
p&on&Aum	8871	82F11	0hFh8	00F61	0hFhS	2F82	I I b
pulfur	- 471	716- 6F64	71: 2hF1h	72SS- Fh6	7102- F26		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF: 1	SF: 1	SF48	SF: S	2F80	I I b
i EallAum	2S: 71	SF: -	SF: S	SF: 2	SF: 1	2F82	I I b
i A	11871	- F28	- F- :	- F1h	- F20	2F: 4	I I b
i A&anAum	4071	: 44F: S	: 60F- 4	: : SFh8	: : 4F20	2F12	I I b
UranAum	2- 871	4F- 0	4F- h	4F- :	4F- 0	SF: 1	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	42F16	41F41	- 8F. 4	4SF0S	4F0S	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				14-		G
Y&&Aum	8h72				1- h		G
ZAnq	6672	- - hF4S	- - 1F11	- 22F- -	- - SFh:	2F. 8	l l b
ZAqonAum	hS71	1F6-	1F6:	1F60	1F6:	1F22	l l b
ZAqonAum	h171	1F64	1F. :	1F62	1F6S	- FS4	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18: 08F28	18- : 2F- h	18284FSh	184S4Fh2	SF84	I I b
c n&Amon%	12171	SF- S	SF2h	SF- 1	SF- S	- F- -	I I b
c rsenAq	0: 72	16FS0	16FS4	16F- 1	16F14	SFhS	I I b
BarAum	1- : 71	6S0F. 4	: h2F62	6S- F- :	6S1F10	1F28	I I b
BarAum	1- 071	612F60	6S8F18	6S0F02	6ShF. 2	SF4:	I I b
Ber%lAum	h71	: F11	4Fh6	: F10	: FS8	2F1:	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	1F- 1	1F42	1F- -	1F- 6	4F1:	I I b
RaOmAum	1S671	: Fh-	4F6S	6F12	: F. :	14Fh6	I I b
RaOmAum	11171	1F61	1F68	1F66	1F6:	2F42	I I b
RalqAum	4- 71	1- - S0F6:	1- 488F. h	1- 22- F- -	1- - - hF86	1FS2	I I b
RalqAum	4471	1- 0h4F. S	1- 66: F2h	14SS4FS6	1- 821F28	1F24	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	14Fh8	1: F- 0	14F8S	1: FS:	1Fh1	I I b
Robal&	: h72	12Fhh	1- F1:	12F80	1- FSS	1FS8	I I b
RoI I er	6- 72	20F- 0	20F12	20F1h	20F2-	SF48	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1Sh		G
y olmAum	16: 72				1S8		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1S-		G
Don	: 472	: 0: 4: F. :	: 88: 1F18	: h- 8SF- 6	: 8: h2F- 6	1F61	I I b
Don	: 672	: 8S1hF12	: 8h- : FSS	: 824hFh-	: 84S1F- :	SF82	I I b
Don	: 072	: h664F1S	6SS- : F8:	: h6h6F24	: h0h8F0-	SF- 4	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	8SF- 6	0hF8S	08F- 2	0hF4h	1F- 2	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	06F81	04F22	04F40	0: F16	1FhS	I I b
LeaO	2S871	8SF26	08F11	08F: :	08Fh0	1F44	I I b
LA&EAum	671				h8		G
MagnesAum	2472	: - 8SF61	: - h0F62	: - 02FhS	: - 8- F01	SF24	I I b
Manganese	: : 72	- - 04F6h	- 461F- 6	- 4- SF28	- 422F11	1F28	I I b
Mol%bOenum	h471	6F- -	4F61	4Fh0	: F- S	10FS6	I I b
Mol%bOenum	h: 71	2F4S	2F- -	2F42	2F- 8	1F8:	I I b
Mol%bOenum	h671	2F: 0	2F6S	2F64	2F6S	1F2S	I I b
Mol%bOenum	h071	2F4h	2F- 6	2F2h	2F- 8	4F- 6	I I b
Mol%bOenum	h871	2F42	2F2h	2F- 6	2F- 6	2F6h	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	2- F16	2- F41	2- F1S	2- F2-	SF0S	I I b
PEosI Eorus	- 172	1- 2hF: 4	1144F: 1	12h8FS0	12: 0F- 0	0F80	I I b
Po&assAum	- h72	868- F- 6	80S0F- 6	86h: F10	86h: F- S	SF14	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				1S2		G
pelenAum	8271	- FS2	- F06	2F61	- F1-	18F04	I I b
pelenAum	0072	1: 8F82	1: 4F: 4	162F- 2	1: 8F: 6	2F46	I I b
pelenAum	0872	- SF86	- - F20	- 2F64	- 2F26	- F88	I I b
pAAqon	2871	264F1h	201F6S	260F4h	260F06	1F- h	I I b
pAver	1S071	SF- -	SF- 2	SF- 1	SF- 2	- F46	I I b
pAver	1Sh71	SF- :	SF- -	SF- 8	SF- :	6FhS	I I b
poOAum	2- 72	2S2F68	2S- F12	2SSF81	2S2F2S	SF61	I I b
p&ona&um	8671	8- F64	82F6h	81F00	82F0S	1F1-	I I b
p&ona&um	8871	80Fhh	84F06	84F44	8: F0-	2F2h	I I b
pulfur	- 471	72S1- F6S	72S1hF1h	72- 21F00	72118F1h		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S8		G
i EallAum	2S- 71	SF: 6	SF: 8	SF: h	SF: 8	2F: 6	I I b
i EallAum	2S: 71	SF: h	SF: :	SF: 6	SF: 0	4FSh	I I b
i An	11871	: F2S	: FS-	: F- S	: F18	2F64	I I b
i A&anAum	4071	: h4F42	: h- F66	: 8- Fh2	: hSF60	SFhh	I I b
UranAum	2- 871	4F: :	4F42	4F4S	4F46	1F8-	I I b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	: 172	4SF. S	41F2:	- hF80	4SF. 4	1F0S	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				142		G
Y&&Aum	8h72				142		G
ZAnq	6672	- 4: F- 4	- - 8F. 2	- 44F- 4	- 42F04	1FS8	I I b
ZAqonAum	hS71	1F. h	1F. 8	1F62	1F6S	1F4h	I I b
ZAqonAum	h171	1F. 6	1F61	1F6S	1F. h	1F42	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1 4S8F- S	1 - - F56	1 - 1- F4-	1 - 2F26	SF- 2	I I b
c n&Amonh	12171	SF6	SF60	SF62	SF64	4F2S	I I b
c rsenAq	0 72	- %F1%	- %F 8	- %FS8	- %F28	SF66	I I b
BarAum	1- 71	- 80F8-	4S- F0%	- %0F8-	- %6F48	2FS-	I I b
BarAum	1- 071	- 81F66	4S0F18	- %8F68	- % F84	- F28	I I b
BerhllAum	%71	1F80	1F0%	1F04	1F8S	- F82	I I b
BAsmu&E	2S%71				111		G
BAsmu&E	2S%72				1S		G
BromAne	8171						ql s
RaOmAum	1S871	2F14	2F28	2F10	2F2S	- F 4	I I b
RaOmAum	1S671	7SF- 1	71F42	71F88	71F2S		I I b
RaOmAum	11171	1F8%	1P%6	2F11	1P%%	F0S	I I b
RalqAum	4- 71	261% F2%	20444F24	260 FS2	260%8F18	2F- -	I I b
RalqAum	4471	201S0F18	282S%F0-	206%2F60	2066%F86	1P%%	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 71						ql s
REIorAne	- 72						ql s
REromAum	272	2 F24	24F20	24F84	24F08	1P%	I I b
Robal&	%72	22FS1	21P%6	21F	21F84	1F16	I I b
RoI I er	6- 72	%2F6%	%, F84	%2FS8	%2F80	SP%6	I I b
t hsI rosAum	1 671						ql s
t hsI rosAum	1 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16 71				111		G
y olmAum	16 72				1S4		G
DnOAum	11 71				111		G
DnOAum	11 72				%%		G
Don	472	602- F- 0	S1%F62	1%F60	0 4F22	1F 0	I I b
Don	672	88- F- %	80%P%8	4 - 2F- 1	4- 1F8%	1F41	I I b
Don	072	6828F-	6 86F26	6- 14F86	6 06F4%	SF4	I I b
KrhI &on	8- 71						ql s
LeaO	2S671	% F00	%4F 6	%6F18	% F S	SF8%	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S071	%. P%0	%1P%	%2FS8	%2F66	1F2-	I I b
LeaO	2S871	% F- 2	%. F66	%4F12	%4F- 0	SP%1	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1- 86%F86	1- 020F41	1- %. 6FS-	1- 844F44	SF00	I I b
Manganese	72	1 4SF-	1 S0P%S	1 1 P%6	1 21F4S	1F11	I I b
MolhbOenum	%471	0F12	0F62	0F 8	0F44	- F0	I I b
MolhbOenum	% 71	- F12	- F21	- F1	- F16	1F4%	I I b
MolhbOenum	%671	- F- S	- F0S	- F62	- F 4	P%.	I I b
MolhbOenum	%071	- F11	- F- S	- F1%	- F2S	2P%	I I b
MolhbOenum	%871	- F1-	- F22	- FS8	- F14	2F2	I I b
NeoChmAum	1 S71						ql s
NeoChmAum	1 S72						ql s
NAqkel	6S72	4 F0%	46F24	46FS6	46FS-	SF4%	I I b
PEosI Eorus	- 172	- - %P%4	- - 8FB6	- 6- 1FB1	- 1SF2S	- P%6	I I b
Po&assAum	- %72	0 84F 2	0 24F 1	00- %FB	0616F2%	1F46	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4 71				11S		G
pqanOAum	4 72				%8		G
pelenAum	8271	1F0-	1P%4	1FB8	1FB	F66	I I b
pelenAum	0072	SF 6	44F0-	- 6P%8	44FS%	1 F4	I I b
pelenAum	0872	8F2	1SF11	%F28	%F21	1SF11	I I b
pAAqon	2871	22%F41	24SP%4	2- P%4	2- F4-	2F4	I I b
pAver	1S071	SF 4	SF6S	SF 0	SF 0	4F 8	I I b
pAver	1S%71	SF	SF62	SF %	SF %	6F46	I I b
poOAum	2- 72	2- 8F48	228F- 1	222P%S	22%P%S	- F44	I I b
p&ona&um	8671	1 4FB4	16SF-	1 %F4	1 8F21	1FB0	I I b
p&ona&um	8871	162FB0	16 F6	16 FB4	164F0%	1FS1	I I b
pulfur	- 471	71- F16	7041F6-	71164P%0	71S80F2		I I b
i erbAum	1 %71				112		G
i erbAum	1 %72				1S4		G
i EallAum	2S- 71	SF4	SF4-	SF44	SF44	1F6-	I I b
i EallAum	2S 71	SF4S	SF46	SF42	SF4-	6F6%	I I b
i An	11871	1F 0	1F0-	1F6	1F6	4F64	I I b
i A&anAum	4071	1S0F14	11SFB8	1S0F0	1S8F %	1FB	I I b
UranAum	2- 871	2F 4	2F 4	2F 1	2F -	SF02	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69-	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	172	0SF- S	0SF2	0SFS0	0SF21	SF10	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				116		G
Y&&Aum	8%72				111		G
ZAnq	6672	- 6- F- 8	- 61F10	- 6- F0S	- 62F0	SF- 8	I I b
ZAqonAum	%S71	2F64	2F6%	2F0S	2F68	1F1S	I I b
ZAqonAum	%171	2F 1	2F 6	2F02	2F6S	4F16	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF22	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	11: - 4UN6	114NJU1N	11: 26UJ6	11: 10USS	SU21	DDe
q5Tb n5%	12171	SU60	SU60	SU64	SU66	- US4	DDe
qpwr 5cd	0: 72	44U0S	4- UJS	4: US-	44U-4	1U-1	DDe
Bspcmb	1- : 71	2J2U06	2N1US1	206U4-	2N- U4S	2UJ0	DDe
Bspcmb	1- 071	2JNUN-	20JU6-	2NSU-2	2N6U-	- U0N	DDe
Br p%Pmb	J71	1U64	1U6S	1U-2	1U-J	- U04	DDe
Bcvb mTE	2SJ71				1S0		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1U-0	1UN2	2U2S	1UNS	22UJ:	DDe
v sob cmb	1S671	7SU-4	SU2-	7SU24	7SU12		DDe
v sob cmb	11171	1U6N	1U06	1U60	1U0S	2UJ1	DDe
v sPdcmb	4- 71	- - S16U01	- S0- 6U41	- 126SU6:	- 1601U26	- U00	DDe
v sPdcmb	4471	- - JSSU0:	- 2- : 1U00	- 2S: 1U0N	- 206NU1S	- US-	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- : 71						dDw
v EPhpc5r	- : 72						dDw
v Epmb cmb	: 272	1JU0-	1JUS:	1JU-0	1JU4:	1UN1	DDe
v nesPT	: J72	2: UN2	2: U1S	2: U1:	2: U-:	1U-J	DDe
v nDDr p	6- 72	N0U66	N4U6-	N6U2N	N6U1J	1U06	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				1S6		G
h nPb cmb	16: 72				1S6		G
t5ocmb	11: 71				1S4		G
t5ocmb	11: 72				1SS		G
tpn5	: 472	: 6621U6-	: - - 62U24	: 4- N: UJN	: 40NJUJ:	- US4	DDe
tpn5	: 672	: : S16U02	: 2N0: UJJ	: 41NSU2-	: 4S24U-1	2USS	DDe
tpn5	: 072	: 0S: SU44	: - - 6: UJ:	: : S14U40	: : 14- U62	- U-:	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	J: U0S	J1U-2	J1U61	J2UNN	2U64	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF22	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JSU24	N0U1S	N0U0-	NNUJ6	1UWN	DDe
Lr so	2SN71	J- US6	NJU-6	NJUJ-	JSUW:	2U11	DDe
LdEcmb	671				J0		G
y sM5r wcmb	2472	1S104U4S	1S11SU21	1S1J0U4-	1S16SU6N	SU44	DDe
y s5Ms5r wr	: : 72	21SNUJN	2S4- UJJ	2SN2U10	2S00UJN	1U0	DDe
y nP%eor 5mb	J471	JU2S	JU1-	NUJ-	JUSN	1U6	DDe
y nP%eor 5mb	J: 71	4U6J	4UN	4U41	4U6	- U12	DDe
y nP%eor 5mb	J671	: U4-	: US:	: USN	: U1J	4US:	DDe
y nP%eor 5mb	J071	4U00	4U0S	4U6:	4U01	1U26	DDe
y nP%eor 5mb	JN71	4UWJ	4U66	4U-	4U0S	- UW0	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	: - U40	: 2UJ4	: - U6	: - U-	SU6-	DDe
8 EnwDEnpmw	- 172	2- S4U1N	2- 6- U2J	22- 6UJ1	2- S1U46	2U0:	DDe
8 nTswwcmb	- J72	420- UJ	4S26U4	41J- U10	4164U44	- US-	DDe
CEnocmb	1S- 71				1S2		G
CEnocmb	1S- 72				1S-		G
I ds5ocmb	4: 71				1S4		G
I ds5ocmb	4: 72				JJ		G
I r P 5cmb	N271	2U22	1U04	2USJ	2US2	12U0	DDe
I r P 5cmb	0072	- 0U2N	41U01	40U2:	42USN	11UW6	DDe
I r P 5cmb	0N72	0UJ0	NU04	NU11	NU20	4UJJ	DDe
I dcdn5	2N71	1JSU1S	1N2US6	1N1UJJ	1N4U02	2U-	DDe
I dgr p	1S071	SU01	SU6-	SU66	SU60	: UW6	DDe
I dgr p	1SJ71	SU0S	SU0S	SU0S	SU0S	SU62	DDe
I nocmb	2- 72	201U46	202UJN	204UJ6	20- U1-	SU64	DDe
I Tpn5Tcmb	N671	1: NU:	1: 1US4	14JU21	1: 2UJ-	- U24	DDe
I Tpn5Tcmb	NN71	164UW:	16SUSS	1: 6UN	16SU4N	2UJ	DDe
I mPmp	- 471	NN12U06	001SU2-	N166U1N	N22JU0-	6U0-	DDe
Ar pecmb	1: J71				1SN		G
Ar pecmb	1: J72				1S-		G
AEs Pbmb	2S- 71	SUJN	SU4S	SUJJ	SUJJ	2UJN	DDe
AEs Pbmb	2S: 71	SU4S	SUJN	SUJ6	SUJN	: U2S	DDe
Ad5	11N71	1UWJ	1UW2	1U01	1UW1	: US-	DDe
Ad5 5cmb	4071	J- UWJ	N: U1-	NNUJJ	NJUJ4	4UJ1	DDe
Rps5cmb	2- N71	- US-	2UW:	2U0J	2UWJ	4U46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9-S	&sTsFdP u sb r 9	S6JqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	62U-2	61U2N	61U-0	61U66	SUJ4	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				111		G
YTTpomb	NJ72				111		G
Zc5d	6672	2J6U4:	2JSUN4	2J- U-2	2J- U6S	SUJ6	DDe
Zqpdn5omb	JS71	- USJ	- USS	2UJ1	- USS	2UJS	DDe
Zqpdn5omb	J171	- U1S	2UJN	2UN2	2UJ6	4U00	DDe

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	y0y9.S1	y06S.2S	yy11.4-	y92- .21	S.9S	ppm
Aotiu Ooh	12171	S.61	S.64	S.69	S.64	%0%	ppm
Aesboic	0%72	16.- S	1%21	1%Sy	1%%	4.29	ppm
BaeiNu	1- %71	29y.94	2yS.%6	290.02	29y.- 0	S.%1	ppm
BaeiNu	1- 071	2y- .00	2y%SS	2y1.y-	2y- .%0	S.%	ppm
BbehlliNu	y71	2.6S	2.6y	2.%4	2.61	2.yS	ppm
Bisu NtE	2Sy71				1S9		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	- .S2	- .S1	2.4-	2.92	11.y%	ppm
Uadu iNu	1S671	S.42	1.yS	- .%0	1.y6	9S.- 1	ppm
Uadu iNu	11171	1.4-	1.- y	1.- y	1.4S	1.0%	ppm
UalciNu	4- 71	2- - - S.1S	2296- .1-	2- 22%60	2- 1- y.6-	1.S6	ppm
UalciNu	4471	241- 2.y6	24- 02.- S	2- 010.yy	24S04.42	1.- 9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%272	14.S2	1- .9%	14.- %	14.S0	1.91	ppm
UOmalt	%y72	1S.- 4	1S.- S	1S.- 4	1S.- -	S.21	ppm
UOppbe	6- 72	29.S0	20.y%	29.44	29.1%	S.y2	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5 emiNu	16471						cps
5 emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				1S9		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				1S6		G
IodiNu	11%72				y9		G
IeOo	%472	26S2- .4y	26469.6-	20S- y.40	26%1S.%	1.y2	ppm
IeOo	%672	26226.y0	2614%1%	2%9S- .2y	26S%9.40	S.96	ppm
IeOo	%072	24%14.%2	244y6.41	246- y.96	24%%S.26	S.- 2	ppm
KehptOo	9- 71						cps
Lbad	2S671	y4.%2	y2.6%	yS.90	y2.69	1.y0	ppm

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Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	yS.y1	yS.49	90.14	9y.%1	2.- 1	ppm
Lbad	2S971	y2.S4	y1.91	9y.6S	y1.1%	1.49	ppm
LitEiNu	671				yy		G
g avobsiNu	2472	6292.y%	6- 64.y-	6619.6-	6422.10	2.0-	ppm
g aovaobsb	%%72	%40.4S	%%6S.y0	%%9.1-	%%2.10	S.yy	ppm
g OhmdboNu	y471	2- .1S	22.9-	22.2y	22.04	1.91	ppm
g OhmdboNu	y%71	1.- 4	1.42	1.- %	1.- 0	- .2%	ppm
g OhmdboNu	y671	- .%	- .%6	- .66	- .%9	1.y2	ppm
g OhmdboNu	y071	1.1%	1.- 0	1.4S	1.- 1	1S.%1	ppm
g OhmdboNu	y971	1.44	1.20	1.- %	1.- %	6.- 0	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	2S.19	2S.%	21.Sy	2S.6S	2.22	ppm
PEOspEOeNs	- 172	22S- .y9	2- 10.16	2- 60.%1	22y6.22	- .6%	ppm
POtassiNu	- y72	% 4- .yy	% S%- 1	% - S.4%	% 26.%9	S.- 0	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				1S9		G
r caodiNu	4%72				y0		G
r blboiNu	9271	1.S6	1.%6	1.2%	1.2y	1y.4-	ppm
r blboiNu	0072	%S.42	4S.- S	%2.1-	40.62	1- .4-	ppm
r blboiNu	0972	1S.44	9.9S	9.26	y.16	12.- 0	ppm
r ilicOo	2971	21- .Sy	2S6.94	21S.6%	21S.1y	1.%S	ppm
r ilRbe	1S071	S.%	S.%	S.%2	S.%	1.26	ppm
r ilRbe	1Sy71	S.6S	S.%6	S.%%	S.%0	4.04	ppm
r OdiNu	2- 72	1%0.%1	1%4.4S	162.%y	1%9.10	2.61	ppm
r teOotiNu	9671	112.24	1Sy.1%	1S0.91	1Sy.0-	2.S0	ppm
r teOotiNu	9971	110.%2	112.S4	114.- 1	114.62	2.4S	ppm
r NfNe	- 471	71- 24.%0	7149- .y0	711%9.%9	71- 22.- 0		ppm
TbemiNu	1%y71				1S6		G
TbemiNu	1%y72				1S-		G
TEalliNu	2S- 71	S.22	S.26	S.21	S.2-	12.S0	ppm
TEalliNu	2S%71	S.21	S.2-	S.2S	S.22	0.1S	ppm
Tio	11971	- .16	- .2%	- .4S	- .20	- .9S	ppm
TitaoiNu	4071	162.29	16S.2%	162.69	161.04	S.91	ppm
F eaoiNu	2- 971	2.0-	2.00	2.62	2.01	2.yy	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%l72	- 9.66	- 9.- -	- y.%9	- 9.96	1.69	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				11-		G
YtteiNu	9y72				1Sy		G
Zioc	6672	220.91	229.y6	2- S.- 2	22y.S-	S.%%	ppm
ZieoCoiNu	yS71	12.- y	12.S2	11.y0	12.1-	1.96	ppm
ZieoCoiNu	y171	12.24	12.S6	11.02	12.S1	2.2S	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	h0 2F41	h62SFh2	h0S2F4-	h0S1Fh2	SF -	l l b
cn&mon%	12171	SF61	SF6S	SF64	SF61	- F12	l l b
crwenAq	0J72	1JF2	1JFh0	1JF1h	1JF4	2F06	l l b
BsrAum	1- J71	2 - F62	26 F44	2 1F26	200F00	2Fh4	l l b
BsrAum	1- 071	2 4F 6	202FSS	2 4F00	2 SFJ4	2F64	l l b
Ber%BAum	h71	2FJJ	2F41	2FJS	2F4h	2FhS	l l b
BAumu&E	2Sh71				11S		G
BAumu&E	2Sh72				1SJ		G
BromAne	171						ql w
RsOmAum	1S 71	2F6J	2F2S	2FJ-	2F46	hFJ4	l l b
RsOmAum	1S671	1F1-	71F44	71F06	7SF6h		l l b
RsOmAum	11171	1F40	1F- 1	1F- J	1F-	JFh-	l l b
RsRqAum	4- 71	2- 1h- F00	221h4F00	2- 4SSF- J	22h2hF6-	2F 1	l l b
RsRqAum	4471	2- 0 F2-	2- 2S1F02	2- 12FJS	2- 6- SF 2	1FJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REFrAne	- J71						ql w
REFrAne	- J72						ql w
REromAum	J272	14FS1	1- F0	1- F6-	1- F 1	1F4S	l l b
RobsR&	Jh72	1SFJ0	1SF1S	1SFJ6	1SF41	2FJ4	l l b
Rol l er	6- 72	2 F6-	2 F4S	2 F1J	2 F4S	SF J	l l b
t %wl rowAum	1J671						ql w
t %wl rowAum	1J672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFnAum	16S71						ql w
HsOoFnAum	16S72						ql w
y oFnAum	16J71				112		G
y oFnAum	16J72				1S6		G
DnOAum	11J71				11S		G
DnOAum	11J72				1SS		G
Don	J472	260 JFJ-	2014- FJh	26122Fh1	266 4FS1	1Fh4	l l b
Don	J672	26446F00	262- 1F40	26- 4JF60	26- 41F- S	SF41	l l b
Don	J072	24614F	24J64F6-	24- h1FJ1	24J2- F60	SF4	l l b
Kr%l &on	- 71						ql w
LesO	2S671	h- F62	hF4-	h2FJh	h1F	2F-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RAen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S071	0Fh2	6F12	hF2	0F00	1F 1	l l b
LesO	2S 71	hSF64	0F0h	hSF1h	hFJ4	1F02	l l b
LA&EAum	671				1S1		G
MsgnewAum	2472	6- 00F 4	6- S2FS2	622JF- 2	6- S1F0-	1F21	l l b
Msngsnewe	JJ72	J62F1S	J4hF- 1	JJ2FSS	JJ4F40	1F22	l l b
MoP%bOenum	h471	22F- -	21F11	2- F1h	22F21	4F01	l l b
MoP%bOenum	hJ71	1F- J	1F- -	1F- J	1F- J	SF S	l l b
MoP%bOenum	h671	- FJh	- F-	- F 4	- F6S	6F-	l l b
MoP%bOenum	h071	1FJJ	1F- 2	1F4S	1F42	FS0	l l b
MoP%bOenum	h 71	1F44	1F- 0	1F- -	1F-	- Fh2	l l b
NeoO%mAum	1JS71						ql w
NeoO%mAum	1JS72						ql w
NAqkeP	6S72	2SF 6	2SF22	2SF- 4	2SF40	1F66	l l b
8 EowI Eoruw	- 172	220hF2	2- - SF41	22 6F2J	22h F6J	1F21	l l b
8 o&swwAum	- h72	J- 61F0h	J10JF- h	J2h F42	J20 FJ-	1F S	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S4		G
pqsnOAum	4J71				1S		G
pqsnOAum	4J72				h		G
pe?enAum	271	1F10	SF 2	1F60	1F22	- JF14	l l b
pe?enAum	0072	4SF04	JhFSJ	4SFJ-	46F00	22F04	l l b
pe?enAum	0 72	6F 1	hFSJ	F2S	FS2	14FSh	l l b
pAAqon	2 71	2S0F- 0	2SSF16	216Fhh	2S F1	4FS6	l l b
pA?er	1S071	SFJS	SF4h	SFJ1	SFJS	2F10	l l b
pA?er	1Sh71	SFJ2	SFJS	SFJ	SFJ-	0Fh	l l b
poOAum	2- 72	166F4	1J6F14	16- F6-	162FS	- F2h	l l b
p&on&Aum	671	1S F- 0	1S- F4	1S F6J	1S6F 4	2F02	l l b
p&on&Aum	71	111FhS	1ShF1h	11JF41	112F16	2F0	l l b
pufFur	- 471	712- SF01	716- JF60	71SJ6FJ6	71- S0F6J		l l b
i erbAum	1Jh71				112		G
i erbAum	1Jh72				1S4		G
i EsPAum	2S- 71	SF2-	SF1h	SF2-	SF21	11F20	l l b
i EsPAum	2SJ71	SF22	SF22	SF2-	SF22	2F J	l l b
i An	11 71	- F10	2Fh0	- FS1	- FSJ	- F44	l l b
i A&snAum	4071	161F06	1J4F6h	1JhF60	1J F01	2F2h	l l b
UrsnAum	2- 71	2F6h	2F6S	2F0S	2F66	2F1h	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	J172	- hFJ-	- F1-	- F11	- FJh	2F1S	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				116		G
Y&&Aum	h72				11S		G
ZAnq	6672	226F- -	22hF01	224F6h	226Fh1	1F1-	l l b
ZAqonAum	hS71	12F21	11F01	12F26	12FS6	2FJ1	l l b
ZAqonAum	h171	12F 2	11FJJ	11Fh6	12F11	JF- J	l l b

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARminium	23O2	1J- 1.4J	1J74.2-	1969.72	1JJ7.OJ	- .9-	ppb
Antimony	1210 1	O.11	O.1-	O.14	O.1-	14.- 3	ppb
Arwenic	37O2	- .72	2.JJ	- .- 1	- .2-	1O.O9	ppb
Bsrium	1- 70 1	72.24	72.- 4	7- .JO	72.JO	1.67	ppb
Bsrium	1- 30 1	71.24	74.J9	7- .J9	7- .- 4	- .7-	ppb
BeryRRum	90 1	O.46	O.49	O.44	O.46	7.J6	ppb
Biwmuth	2O90 1				1O7		%
Biwmuth	2O9O2				1OO		%
Bromine	J10 1						cpw
Csdmium	1OJ0 1	O.7O	O.J2	O.7O	O.61	29.J9	ppb
Csdmium	1O60 1	0- .1J	0- .64	O2.13	0- .OO		ppb
Csdmium	111 0 1	O.2J	O.19	O.27	O.24	1J.- 1	ppb
CsRium	4- 0 1	4292.J4	4- 43.1O	4- 4J.32	4- 29.77	O.3-	ppb
CsRium	440 1	444- .69	4741.O1	4779.O9	4714.79	1.- 3	ppb
Csrbon	120 1						cpw
Csrbon	12O2						cpw
ChRrine	- 70 1						cpw
ChRrine	- 7O2						cpw
Chromium	72O2	2.64	2.32	- .O1	2.39	6.9O	ppb
CobsRR	79O2	1.9-	1.97	1.9J	1.97	1.4J	ppb
Copper	6- O2	7.42	7.4J	7.J3	7.79	4.47	ppb
Dywprowium	176 0 1						cpw
Dywprowium	176O2						cpw
Erbium	164 0 1						cpw
Erbium	164O2						cpw
GsdoRRnium	16O0 1						cpw
GsdoRRnium	16O0 2						cpw
HoRRnium	167 0 1				1O3		%
HoRRnium	167O2				1O1		%
Indium	117 0 1				1O6		%
Indium	117O2				96		%
Iron	74O2	4623.17	4311.O4	4937.1O	4331.1O	- .J1	ppb
Iron	76O2	4929.24	499J.OJ	7292.O6	7O3- .1-	- .JO	ppb
Iron	73O2	473- .J9	4631.33	4J9J.2J	4314.67	- .7-	ppb
Krypton	J- 0 1						cpw
Lesd	2O60 1	13.O3	13.6O	13.69	13.47	1.92	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.- 3	16.92	16.91	16.3-	1.J3	ppb
Lesd	2OJ01	16.9O	13.19	13.- 1	13.1-	1.2O	ppb
Lithium	601				97		%
Msgnewium	24O2	11J1.J1	1131.2-	129- .99	1217.6J	7.6O	ppb
Msngsnewe	77O2	1O4.O6	1O6.37	112.74	1O3.3J	4.O2	ppb
MoRybdenum	9401	4.4J	4.- 1	4.47	4.41	2.O6	ppb
MoRybdenum	9701	O.29	O.24	O.2J	O.23	J.73	ppb
MoRybdenum	9601	O.34	O.64	O.32	O.3O	3.J9	ppb
MoRybdenum	9301	O.2O	O.29	O.2J	O.26	13.J2	ppb
MoRybdenum	9J01	O.2J	O.29	O.24	O.23	1O.22	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	- .J2	4.11	- .91	- .97	- .3O	ppb
8howphoruw	- 1O2	- J2.6-	- 47.- J	- 7- .O2	- 6O.- 4	7.46	ppb
8otswwium	- 9O2	994.7O	992.97	1O67.96	1O13.JO	4.1O	ppb
Rhodium	1O- 01				1O-		%
Rhodium	1O- 02				99		%
Scsndium	4701				1O-		%
Scsndium	47O2				94		%
SeRenium	J201	0O.1-	0O.7J	0O.- 2	0O.- 7		ppb
SeRenium	33O2	1- .- 9	11.9J	12.J6	12.34	7.7J	ppb
SeRenium	3JO2	1.- 6	2.O-	- .- J	2.26	47.6-	ppb
SiRcon	2J01	- J.67	- J.J2	4O.43	- 9.- 1	2.77	ppb
SiRver	1O301	O.11	O.11	O.1O	O.1O	2.22	ppb
SiRver	1O901	O.12	O.11	O.11	O.11	4.93	ppb
Sodium	2- 02	29.33	2J.3O	- 6.22	- 1.76	12.J9	ppb
Strontium	J601	2O.- -	21.27	21.29	2O.96	2.79	ppb
Strontium	JJ01	2O.- 6	2O.96	2O.J4	2O.32	1.7-	ppb
SuRfur	- 401	02OJ9.O6	02- 2O.O9	022J7.J9	022- 1.6J		ppb
Terbium	17901				1O3		%
Terbium	17902				1OO		%
ThsRium	2O- 01	O.O6	O.OJ	O.O3	O.O3	14.31	ppb
ThsRium	2O701	O.O7	O.O6	O.O7	O.O7	3.4J	ppb
Tin	11J01	O.7-	O.72	O.64	O.73	11.24	ppb
Titsnium	4301	29.4-	29.J6	29.91	29.34	O.JJ	ppb
Ursnium	2- J01	O.7O	O.72	O.72	O.71	2.39	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CIrent Ssmpre ID :	MHOF2- L	DirRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	3.44	3.44	3.J1	3.76	2.J4	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1O6		%
Yttrium	J90l2				93		%
Zinc	66O2	44.43	4- .2O	46.46	44.31	- .6J	ppb
Zirconium	9O0l	2.- -	2.- 4	2.42	2.- 6	2.O7	ppb
Zirconium	910l	2.19	2.- 9	2.46	2.- 7	7.J3	ppb

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RlAn&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&:T:i Ane:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	11814F52	11 h F1S	118- 8F2h	1180SF4h	SF6h	I I b
c n&Amon%	12171	1 F6S	1 F10	1 F58	1 F28	1F46	I I b
c rsenAq	0h72	2- F88	24F8S	26F58	24F 2	4F4-	I I b
BarAum	1- h71	024F 4	01SF21	018F0S	010F h	1F5-	I I b
BarAum	1- 071	0 SF -	0h6F11	06 F16	002F50	2F28	I I b
Ber%lAum	71	1- Fh4	1- F4-	12F 4	1- F- 1	2F-	I I b
BAsmu&E	2S 71				11S		G
BAsmu&E	2S 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	11Fh	1SF4h	11F11	11F5h	hF10	I I b
RaOmAum	1S671	hF86	0F- 6	8F8-	0F- h	2SF22	I I b
RaOmAum	11171	11F00	11F62	11F64	11F68	SF0-	I I b
RalqAum	4- 71	264SSF64	26h22Fh1	2h12hF 6	26S16F- 0	2F 0	I I b
RalqAum	4471	20- 1hF0S	206 F h	2h646F64	26880F4-	4F56	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	h F 8	61F4S	6SF4	6SF62	1F1	I I b
Robal&	h 72	12- F- h	124F88	12- F01	12- F 8	SF64	I I b
RoI I er	6- 72	8hF4	86F68	80F54	86F41	SF 4	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S8		G
y olmAum	16h72				1Sh		G
DnOAum	11h71				1S8		G
DnOAum	11h72						G
Don	h472	- S246Fh1	- S 14F86	- S 4SF 1	- S0SSF06	1F28	I I b
Don	h672	- S2- 1F12	- S2- 1F24	- Sh- SF18	- S- - SF8h	SFh0	I I b
Don	h072	28288Fh	28644F1h	2861SF58	28h14F28	SF6	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S6Fhh	1ShF42	1S- F11	1ShF52	1F60	I I b

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
LeaO	2S071	1S2F4-	F60	8F10	1SSFS	2F16	I I b
LeaO	2S871	1S- FhS	1S2F- 1	1S2F- 4	1S2F01	SF66	I I b
LA&EAum	671				0		G
MagnesAum	2472	0224Fh0	02hhFh	02 6FS2	02h8F0-	SF4	I I b
Manganese	hh72	0- F61	0h- F8	040F02	040FS0	SF 6	I I b
Mol%bOenum	471	24F 2	2hF41	2- F60	24F60	- F6h	I I b
Mol%bOenum	h71	1F48	1F- 6	1F41	1F42	4FS4	I I b
Mol%bOenum	671	- F86	- F 1	- F84	- F80	SF8	I I b
Mol%bOenum	071	1F48	1F- -	1F-	1F4S	hF46	I I b
Mol%bOenum	871	1F- h	1F41	1F4-	1F4S	- F12	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	14- F- 4	144F4h	144F86	144F22	SFhh	I I b
PEosI Eorus	- 172	24- - F21	26S8F 4	2h28F22	2h2- F46	- F4	I I b
Po&assAum	- 72	6SS6F14	6100F60	6Sh- FS8	6S08F 0	1F46	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4h71				1S0		G
pqanOAum	4h72				0		G
pelenAum	8271	1 F 2	1 F04	18F06	1 F48	- F22	I I b
pelenAum	0072	0SF- S	08FS2	0SF0-	0- FS2	hF 4	I I b
pelenAum	0872	28F- 1	- - FSh	28FhS	2 F h	8F 6	I I b
pAAqon	2871	261FS0	2h1F -	2- hF0h	24 Fh8	hF14	I I b
pAver	1S071	FS4	8F86	8F0S	8F86	1F 2	I I b
pAver	1S 71	FS	8F88	FSS	8F	1F16	I I b
poOAum	2- 72	2- 6Fhh	2h2F6	2- SFh0	2- F 4	4F00	I I b
p&onA&um	8671	126FS	11 F1	121F82	122F- 0	2F84	I I b
p&onA&um	8871	1- 1F6S	128F- 2	12hF- S	128F4S	2F4h	I I b
pulfur	- 471	7 08FS-	71S- SF22	7142hF2S	71144F48		I I b
i erbAum	1h 71				11S		G
i erbAum	1h 72				1S4		G
i EallAum	2S- 71	8F8	8F61	8F46	8F6h	2F4	I I b
i EallAum	2Sh71	8F 0	8F81	8F64	8F81	1F86	I I b
i An	11871	4F14	4FS1	4F2S	4F12	2F4h	I I b
i A&anAum	4071	181F02	1 2F1-	10- F14	182F- -	hF22	I I b
UranAum	2- 871	- FS2	2F 4	2F 8	2F 8	1F42	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h172	1hhF88	1h0F	1h0F86	1h0F24	SF0h	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8 71				114		G
Y&&Aum	8 72				11S		G
ZAnq	6672	4h F61	401F60	408F11	46 F8S	2FSS	I I b
ZAqonAum	S71	14FS6	1- F4-	1- F1S	1- Fh-	- Fh0	I I b
ZAqonAum	171	14FS4	1- F 1	1- F- 4	1- F00	2F01	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	11yyh.- 2	1y0S2.hh	12S2h.yS	1- Sh0.20	10.- 2	ppm
Aotiu Oo%	12171	S.42	S.41	S.44	S.42	- .4y	ppm
Aeaboic	0y72	11.P-	16.PS	1- .y-	14.Sy	10.h0	ppm
BJeiNu	1- y71	2hh.2S	- S1.06	- S6.4h	- S2.4P	1.22	ppm
BJeiNu	1- 071	- S- .4y	- S- .2h	- S2.Sh	- S2.h4	S.2y	ppm
Bbe%wiNu	h71	- .4y	- .20	- .4-	- .- P	2.h0	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				h6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.P0	1.yP	1.hP	1.P1	11.6y	ppm
UJdu iNu	1S671	7S.12	S.10	1.PS	S.61	16P.Py	ppm
UJdu iNu	11171	1.S1	1.1-	1.S0	1.S0	y.06	ppm
UJwiNu	4- 71	12hP1.4P	1206S.4h	1- S1- .SP	12h1P.- y	1.S0	ppm
UJwiNu	4471	1- - y2.41	1- Sh- .4y	1- 40P.P2	1- - SP.2-	1.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEWeiob	- y71						cpa
UEWeiob	- y72						cpa
UEeOu iNu	y272	16.h-	2- .- -	10.S4	1h.1S	1h.16	ppm
UOmJw	yh72	11.y4	1y.y4	12.S1	1- .S-	16.0h	ppm
UOppbe	6- 72	- - .SP	4- .0y	- 4.- 4	- 0.S6	1y.04	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiioiNu	16S71						cpa
HJdOiioiNu	16S72						cpa
MOw iNu	16y71				111		G
MOw iNu	16y72				h6		G
IodiNu	11y71				1S0		G
IodiNu	11y72				h1		G
IeOo	y472	2h42- .42	- Py02.- 2	- S016.6S	- 2hS4.11	1y.Sy	ppm
IeOo	y672	2h1- 0.02	- h2P4.64	2hP- 0.61	- 20y- .- 2	10.- S	ppm
IeOo	y072	201yy.6h	- 6122.h0	2PSS4.6S	- S420.0y	16.20	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	P0.y2	Ph.Py	P4.y-	P0.- S	- .Sy	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	P4.y6	P4.P1	PS.00	P- .- P	2.02	ppm
LbJd	2SP71	Py.02	P0.- -	P2.Ph	Py.- 2	2.6-	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	y- P- .- y	0- 4y.2P	y640.06	612y.40	10.- P	ppm
g JovJobab	yy72	yyh.60	04y.y-	y0h.14	62P.11	16.26	ppm
g O%mdboNu	h471	14.6S	14.- h	14.y0	14.y2	S.0h	ppm
g O%mdboNu	hy71	S.h6	1.S1	1.S1	1.SS	- .S4	ppm
g O%mdboNu	h671	2.4y	2.y6	2.44	2.4P	2.6h	ppm
g O%mdboNu	h071	S.hh	1.S6	1.SP	1.S4	4.4-	ppm
g O%mdboNu	hP71	S.hh	1.SP	1.S2	1.S-	4.0-	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	2S.- P	2P.46	21.h4	2- .yh	1P.10	ppm
I EOapEOeNa	- 172	1624.Py	21- 6.2y	14P0.12	104h.41	1h.yy	ppm
I OtJaaiNu	- h72	4S14.46	y- 16.2S	4SP4.6-	4401.06	16.- 0	ppm
n EOdiNu	1S- 71				1SP		G
n EOdiNu	1S- 72				hy		G
r cJodiNu	4y71				1SP		G
r cJodiNu	4y72				Ph		G
r bwboiNu	P271	1.4P	1.12	1.12	1.24	16.P1	ppm
r bwboiNu	0072	40.yh	0h.- 1	62.h2	6- .20	2y.S0	ppm
r bwboiNu	0P72	1S.6P	10.42	11.1y	1- .SP	2P.0-	ppm
r iwcOo	2P71	1h0.yy	1hy.h4	1h0.- -	1h6.h4	S.44	ppm
r iwRbe	1S071	S.62	S.66	S.62	S.6-	- .- h	ppm
r iwRbe	1Sh71	S.64	S.60	S.6P	S.60	- .Sh	ppm
r OdiNu	2- 72	1y- .66	2- 0.yh	16- .0-	1P4.hh	24.00	ppm
r teOotiNu	P671	11- .60	116.y2	116.0h	11y.66	1.yS	ppm
r teOotiNu	PP71	11h.66	12y.S2	12- .S2	122.y0	2.21	ppm
r NwNe	- 471	721S6.40	722yS.1y	72SyP.y4	721- P.- h		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				h6		G
TEJwiNu	2S- 71	S.- 1	S.- 6	S.20	S.- 1	1- .hh	ppm
TEJwiNu	2Sy71	S.- 2	S.- -	S.2h	S.- 1	y.06	ppm
Tio	11P71	4.- -	4.- h	4.yy	4.42	2.yy	ppm
TitJoiNu	4071	1y2.4h	140.46	1yS.04	1yS.2-	1.0S	ppm
FeJoiNu	2- P71	- .- 1	- .41	- .24	- .- 2	2.yP	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- P.- 2	yS.yh	- P.0-	42.yy	16.- h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				114		G
YtteiNu	Ph72				1S-		G
Zioc	6672	1h1.Sy	26y.- 1	2S- .h4	22S.1S	1P.S-	ppm
ZiecOoiNu	hS71	0.hS	0.Ph	0.P2	0.P0	S.y4	ppm
ZiecOoiNu	h171	0.6P	P.S2	0.yy	0.0y	- .12	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	2072	121SPFn4	110PhF42	11h14F26	11h- 0Fn4	1F- n	ppm
Aotiu Oo%	12171	1F1-	SFnS	1FS1	1FS1	11Fnh	ppm
Aeaboic	0n72	1- FS6	12F1h	12F- 1	12Fn2	- F0n	ppm
BJeiNu	1- n71	- 66FP2	- S4Fn0	- SSFPP	- 24F22	11F4S	ppm
BJeiNu	1- 071	- 0SFPh	- S2F0P	- SSFn-	- 24FP0	12F20	ppm
Bbe%wiNu	h71	1F64	1F44	1F- -	1F40	1SF6S	ppm
Biau NtE	2Sh71				hP		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
RJdu iNu	1SP71	2Fn6	2F1h	- F20	2FP1	1hFPn	ppm
RJdu iNu	1S671	SF0h	7SF16	72FSP	7SF4P		ppm
RJdu iNu	11171	- FSh	2F60	2F4-	2F0-	12F2h	ppm
RJwiNu	4- 71	12664FS4	1Sn62FnS	hP41F61	11S22F02	1- F- S	ppm
RJwiNu	4471	1- S42F06	11SS- F62	1S2S6Fh2	11410F00	12FP1	ppm
RJemOo	1271						cpa
RJemOo	1272						cpa
REwOeiob	- n71						cpa
REwOeiob	- n72						cpa
REeOu iNu	n272	2PF1-	20F- h	20F44	20F66	1FnS	ppm
ROmJw	nh72	PF6h	PFnP	PFnn	PF61	SFP-	ppm
ROppbe	6- 72	41FSP	- hF6S	- hFPh	4SF1h	1Fn6	ppm
D%apeOaiNu	1n671						cpa
D%apeOaiNu	1n672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
y Ow iNu	16n71				h0		G
y Ow iNu	16n72				1S6		G
IodiNu	11n71				h0		G
IodiNu	11n72				hh		G
IeOo	n472	2n004F2n	2n20nFSS	24PPSFnn	2n- 1SFS0	1F00	ppm
IeOo	n672	2n162F60	24n24F02	241S6FP0	24nhPFSh	2F16	ppm
IeOo	n072	2- Sh1F06	22h- 0F- S	2260SF- 0	22PhhFP1	SFn-	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21PF41	104F2P	16hF60	1P0F4n	14F- 6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiWtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
LbJd	2S071	211F1P	160F61	16- Fn6	1PSF0P	14F61	ppm
LbJd	2SP71	222FPP	1PSF4P	102Fn4	1h2F1S	14FS1	ppm
LitEiNu	671				hS		G
MJgobaiNu	2472	- 2- - Fnh	- 1- 6F04	- 16nF4h	- 10PF04	1Fn0	ppm
MJogJobab	nn72	0nnFn4	040FPn	042F1P	04PF66	SFn2	ppm
MO%mdboNu	h471	nF0S	4FPP	4F46	nFS1	12F6S	ppm
MO%mdboNu	hn71	1FP0	1F01	1F4P	1F6h	11F4-	ppm
MO%mdboNu	h671	2F24	1Fn0	1Fn4	2FSn	PF24	ppm
MO%mdboNu	h071	2F11	1F64	1F6P	1FP1	14F- h	ppm
MO%mdboNu	hP71	1FPh	1Fn4	1Fn6	1F66	11Fn0	ppm
8 bOd%u iNu	1nS71						cpa
8 bOd%u iNu	1nS72						cpa
8 ickbw	6S72	16FPS	16F2S	1nFn-	16F1P	- Fn-	ppm
I EOapEOeNa	- 172	2- - - F42	224PF24	22S6FnP	2262F04	2FP6	ppm
I OtJaaiNu	- h72	41hPFn6	41- 4F- 1	4120FS4	41n- F- S	SFnn	ppm
5 EOdiNu	1S- 71				h6		G
5 EOdiNu	1S- 72				1S4		G
r cJodiNu	4n71				hn		G
r cJodiNu	4n72				hn		G
r bwboiNu	P271	1F2S	SFn0	SFP1	SFnh	1hF0P	ppm
r bwboiNu	0072	- PF2n	24FP1	4- F04	- nF6S	20F- n	ppm
r bwboiNu	0P72	6FP-	nF20	0Fn4	6Fnn	10F0-	ppm
r iwcOo	2P71	1hSF- n	1n6F60	140F- S	164F00	1- F04	ppm
r iwbe	1S071	2F0-	2F2P	2F10	2F- h	12F- S	ppm
r iwbe	1Sh71	2F66	2F2-	2F2h	2F- h	hF6S	ppm
r OdiNu	2- 72	144F4n	1- 4FS0	142Fnn	14SF4h	- Fnh	ppm
r teOotiNu	P671	1nPFP1	12PF42	12nF0n	1- 0F66	1- F- 4	ppm
r teOotiNu	PP71	102F2S	1- 4F20	1- SF46	14nF64	1nFPn	ppm
r NwNe	- 471	hn1Fnn	71S- nFn4	710S- FSn	7nhnF6P		ppm
TbemiNu	1nh71				hP		G
TbemiNu	1nh72				1S4		G
TEJwiNu	2S- 71	SF- 1	SF20	SF20	SF2P	hF62	ppm
TEJwiNu	2Sn71	SF- S	SF22	SF2n	SF26	1nF62	ppm
Tio	11P71	0F0n	6F- 2	6F12	6F0-	1- F2n	ppm
TitJoiNu	4071	2S- FPP	160F6n	1n4FP-	10nF4n	14FnS	ppm
UeJoiNu	2- P71	2FnS	2F- S	2F2-	2F40	14F0h	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n172	4nF06	44F4n	4nF41	4nF21	1F4h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				1S1		G
YtteiNu	Ph72				1S4		G
Zioc	6672	- nPf64	- nnF40	- n- FP1	- nnFh0	SF6h	ppm
ZieccOoiNu	hS71	2F- P	1Fnh	1FP-	2FS0	1- Fh1	ppm
ZieccOoiNu	h171	2FnP	1FPh	1FP0	2F11	1hFSS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1S148F89	h8hhF9S	h94SFh0	h86- F11	- F1S	I I b
c n&Amon%	12171	SF99	SF94	SF92	SF9-	2F02	I I b
c rsenAq	0972	11FS4	1SFh0	1SFS8	1SF0S	9FS-	I I b
BarAum	1- 971	22- F- 1	21- F28	221F9S	21hF- 6	2F44	I I b
BarAum	1- 071	22SF- 6	211Fh-	22- F99	218F61	2F09	I I b
Ber%lAum	h71	1FS2	1FS0	1F11	1FS0	4F1h	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F09	1Fh6	2F09	2F19	24F- 2	I I b
RaOmAum	1S671	72F6S	72F62	7SF1h	71FBS		I I b
RaOmAum	11171	2F41	2FS2	2F20	2F2-	8FB9	I I b
RalqAum	4- 71	6242Fh0	6111F68	6100F02	6100F46	1FS6	I I b
RalqAum	4471	6664F92	64- 6FS0	6444F2h	6914Fh6	1Fhh	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	2- F4h	22Fh2	22F6h	2- FS-	1F08	I I b
Robal&	9h72	0F40	0F19	0FS0	0F2-	2Fh-	I I b
RoI I er	6- 72	2hFBh	2hF44	28F0-	2hF- 9	2FSS	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S6		G
y olmAum	16972				1S4		G
DnOAum	11971				1S6		G
DnOAum	11972				h8		G
Don	9472	18h1hF28	10h26F60	10646FS0	18164FS1	- F68	I I b
Don	9672	1h842FB6	1h911F4S	1882hFS2	1h- h4F42	2F60	I I b
Don	9072	18- 89F6S	1816SFS-	10410F21	10h80F61	2FB2	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	194F99	14hFS2	19- FB8	192F4h	1Fh8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	148F- 6	149F59	140F29	146F8h	1F14	I I b
LeaO	2S871	161F- 4	196F50	198F99	198F69	1F66	I I b
LA&EAum	671				h8		G
MagnesAum	2472	224hF65	22S1F42	2Sh0F45	2182F81	- F96	I I b
Manganese	9972	0hSF62	06- F46	049F1-	066F45	2Fhh	I I b
Mol%bOenum	h471	- F42	- F44	- F4h	- F49	SFh8	I I b
Mol%bOenum	h971	SFhh	1F55	1F59	1F51	- F1-	I I b
Mol%bOenum	h671	1F18	1F20	1F- S	1F29	4Fhh	I I b
Mol%bOenum	h071	1F59	SFh1	SFh4	SFh0	0F08	I I b
Mol%bOenum	h871	SFhh	SF88	SFh4	SFh4	9F96	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	16F52	19F- 4	19F26	19F94	2F05	I I b
PEosI Eorus	- 172	1- h0F94	1289F90	1189FhS	128hF60	8F21	I I b
Po&assAum	- h72	2994F04	2918F91	2- 0hF06	2484F- 4	- F02	I I b
5 EoOAum	1S- 71				1S4		G
5 EoOAum	1S- 72				1S4		G
pqanOAum	4971				1S9		G
pqanOAum	4972				h9		G
pelenAum	8271	SF6S	SFhh	SF01	SF06	26F9S	I I b
pelenAum	0072	- 4F42	- 0F41	22F40	- 1F4-	29F19	I I b
pelenAum	0872	- Fh9	9F46	4F- 2	4F98	10F2S	I I b
pAAqon	2871	2ShF91	2S2F89	2S0F16	2S6F9S	1F64	I I b
pAver	1S071	1F89	1F88	1Fh6	1FhS	- F5S	I I b
pAver	1Sh71	1Fh0	1Fh-	2F5-	1Fh0	2F40	I I b
poOAum	2- 72	1h6F66	18hF68	182F5h	18hF48	- F84	I I b
p&ona&um	8671	86F88	86F89	88F98	80F44	1F1-	I I b
p&ona&um	8871	80Fh9	89F4-	80F98	86Fhh	1F96	I I b
pulfur	- 471	72298F- 0	720h2F9S	72409F89	729S8FhS		I I b
i erbAum	19h71				1S6		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF1h	SF2S	SF22	SF2S	8F10	I I b
i EallAum	2S971	SF18	SF1h	SF18	SF1h	- F9-	I I b
i An	11871	4F59	- Fh9	4F56	4F52	1F94	I I b
i A&anAum	4071	1S1F9S	1SSF14	1S2F80	1S1F9S	1F- 4	I I b
UranAum	2- 871	1F09	1F01	1F0-	1F0-	1F24	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	- 0F14	- 4F96	- - FhS	- 9F2S	4F86	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S0		G
Y&&Aum	8h72				1S1		G
ZAnq	6672	284F10	206Fh9	20SF91	200F21	2F40	l l b
ZAqonAum	hS71	1F44	1F49	1F46	1F49	SF9-	l l b
ZAqonAum	h171	1F9-	1F94	1F42	1F4h	4F49	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1S161.- -	1S1yS.0P	1S214.Sy	1S1PP.0-	S.26	ppm
Aotiu Ooh	12171	S.4-	S.4%	S.4S	S.4-	6.6y	ppm
Aeaboic	0%72	P.P6	y.46	P.y1	y.SP	- .6P	ppm
BJeiNu	1- %71	240.- 2	242.S6	216.0P	2- %- y	6.y4	ppm
BJeiNu	1- 071	2%S.01	242.0y	222.1S	2- P.%	6.1y	ppm
BbehwiNu	y71	1.1P	1.16	1.S%	1.1-	%y1	ppm
Biau NtE	2Sy71				11%		G
Biau NtE	2Sy72				1S%		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6y	2.S4	1.20	1.60	22.y6	ppm
UJdu iNu	1S671	71.4y	7- .01	72.12	72.44		ppm
UJdu iNu	11171	1.62	1.%P	1.%2	1.%0	- .S1	ppm
UJwciNu	4- 71	2141%2-	2124P.%0	1P%2P.22	2S- y0.- 4	0.y%	ppm
UJwciNu	4471	22S02.yS	221y%41	1ySPS.PP	21116.4S	P.- %	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEW0eiob	- %71						cpa
UEW0eiob	- %72						cpa
UEeOu iNu	%272	2- .1y	2- .11	2- .y4	2- .42	1.y0	ppm
UOmJwv	%y72	P.1S	P.2-	P.12	P.1%	S.PP	ppm
UOppbe	6- 72	2y.22	2y.PS	- S.1%	2y.02	1.%P	ppm
DhapeOaiNu	1%671						cpa
DhapeOaiNu	1%672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiioiNu	16S71						cpa
HJdOiioiNu	16S72						cpa
MOw iNu	16%71				116		G
MOw iNu	16%72				1S4		G
IodiNu	11%71				11%		G
IodiNu	11%72				yy		G
IeOo	%472	1yy44.6y	1yPP1.S6	2S4- 6.- %	2SSP0.- 0	1.%l	ppm
IeOo	%672	1y024.y4	1y%%P.- 0	2SS%%10	1y00y.4y	1.2P	ppm
IeOo	%072	1P610.06	1P4%2.y2	1P060.0%	1P612.P1	S.P%	ppm
KehptOo	P- 71						cpa
LbJd	2S671	04.0%	02.1P	66.12	01.S1	6.24	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	02.14	6y.%l	62.- -	60.yy	0.40	ppm
LbJd	2SP71	0- .62	0S.4y	64.2-	6y.4%	6.PP	ppm
LitEiNu	671				1S1		G
g JvobaiNu	2472	%06- .Sy	%Py1.PS	%P0P.- %	%P44.41	1.21	ppm
g JovJobab	%%72	420.21	42y.20	4- 2.%l	42y.66	S.62	ppm
g OwmdboNu	y471	4.46	4.- 0	4.S4	4.2y	%SP	ppm
g OwmdboNu	y%71	S.yS	S.PP	S.06	S.P%	P.01	ppm
g OwmdboNu	y671	1.- -	1.20	1.S4	1.21	12.4-	ppm
g OwmdboNu	y071	S.yP	S.y2	S.0%	S.PP	1- .- 0	ppm
g OwmdboNu	yP71	S.P6	S.P4	S.0P	S.P-	4.P%	ppm
8 bOdhu iNu	1%S71						cpa
8 bOdhu iNu	1%S72						cpa
8 ickbw	6S72	16.P0	16.P2	10.%	10.S0	2.- 1	ppm
I EOapEOeNa	- 172	2%6.P1	2600.- -	24y2.y1	2%6y.S2	- .0%	ppm
I OtJaaiNu	- y72	%2S0.62	%14y.- 0	%2PS.y4	%212.64	1.26	ppm
n EOdiNu	1S- 71				112		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4%71				112		G
r cJodiNu	4%72				y6		G
r bwboiNu	P271	S.PP	S.%6	1.14	S.P6	- 4.20	ppm
r bwboiNu	0072	1y.- 2	20.1-	- 1.6S	26.S1	2- .Py	ppm
r bwboiNu	0P72	6.P1	6.2S	0.S-	6.6P	6.- y	ppm
r iwcOo	2P71	14P.11	146.%P	126.- -	14S.- 4	P.66	ppm
r iwRbe	1S071	S.4y	S.4-	S.44	S.46	0.42	ppm
r iwRbe	1Sy71	S.4P	S.46	S.44	S.46	4.- 4	ppm
r OdiNu	2- 72	1%P.04	1%.0%	1%4.4S	1%%6-	1.0%	ppm
r teOotiNu	P671	22S.6P	22S.yy	1Py.11	21S.26	P.01	ppm
r teOotiNu	PP71	2- - .2S	226.%y	1y6.42	21P.0-	P.y6	ppm
r NwNe	- 471	71Py6.- 2	71P00.1-	720y4.%2	721Py.- -		ppm
TbemiNu	1%y71				11%		G
TbemiNu	1%y72				1S4		G
TEJwiNu	2S- 71	S.2%	S.21	S.1y	S.21	1%Sy	ppm
TEJwiNu	2S%71	S.24	S.21	S.10	S.21	16.4-	ppm
Tio	11P71	2.%2	2.4P	2.1P	2.- y	0.y1	ppm
TitJoiNu	4071	1S0.04	1Sy.%	y0.%S	1S4.y-	6.1y	ppm
F eJoiNu	2- P71	2.22	2.16	1.y6	2.12	6.4S	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	%172	- S.y6	- 2.11	- 2.1y	- 1.0%	2.1P	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				116		G
YtteiNu	Py72				1S4		G
Zioc	6672	102.06	10P.- 4	10P.yP	106.6y	1.y4	ppm
ZiecOoiNu	yS71	2.1P	2.2S	1.P4	2.S0	y.00	ppm
ZiecOoiNu	y171	2.12	2.S6	1.y0	2.S%	- .%6	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	112- S.Py	h6SS.2P	hh61.yP	1S264.24	P.- 4	ppm
Aotiu Oo%	12171	S.- h	S.- -	S.42	S.- P	11.P1	ppm
Aeaboic	0y72	11.- 0	h.y6	h.P-	1S.2y	h.yS	ppm
BJeiNu	1- y71	2- P.1-	2- P.- P	246.yh	241.S-	2.SS	ppm
BJeiNu	1- 071	244.00	2- P.hS	246.- 2	24- .- -	1.61	ppm
Bbe%wiNu	h71	1.16	1.1P	1.11	1.1y	- .1-	ppm
Biau NtE	2Sh71				1Sh		G
Biau NtE	2Sh72				1S-		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.y-	1.h-	1.2P	1.yP	2S.hS	ppm
UJdu iNu	1S671	S.1-	7- .- h	72.60	71.hP		ppm
UJdu iNu	11171	1.- 1	1.20	1.41	1.- -	y.2y	ppm
UJwiNu	4- 71	2S0hh.6P	2S444.y4	2Sh04.- S	2S0- h.y1	1.- S	ppm
UJwiNu	4471	212yP.14	2ShSS.04	21y01.1S	2124- .- -	1.yP	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	21.14	1P.1y	1P.02	1h.- 4	P.2-	ppm
UOmJw	yh72	P.4P	0.64	0.yh	0.hS	6.- 2	ppm
UOppbe	6- 72	26.6P	22.6-	2- .2S	24.10	h.S6	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S2		G
IodiNu	11y71				1SP		G
IodiNu	11y72				h6		G
IeOo	y472	2S- y- .6h	1021P.h0	104y- .44	1P- 42.S-	h.y2	ppm
IeOo	y672	2Sh41.0h	1P- S- .0S	1P0Sh.40	1h- 1P.- 2	0.- y	ppm
IeOo	y072	1h6h0.44	10Shh.P4	104SS.0-	1PS66.SS	0.P6	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	64.yy	64.22	64.y2	64.4-	S.2P	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	61.04	62.Sy	61.6P	61.P2	S.- 2	ppm
LbJd	2SP71	62.6y	62.y0	62.06	62.66	S.1y	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	4- 62.- y	- 00h.- -	- h2- .2-	4S21.64	0.yy	ppm
g JovJobab	yy72	4y0.6P	- hy.00	4Sy.- S	41h.yP	0.h4	ppm
g O%mdboNu	h471	- .P4	- .h2	4.2-	4.SS	y.14	ppm
g O%mdboNu	hy71	S.6y	S.0S	S.6h	S.6P	- .04	ppm
g O%mdboNu	h671	S.hh	1.1S	1.S4	1.S4	y.S-	ppm
g O%mdboNu	h071	S.0S	S.66	S.P4	S.0-	1- .10	ppm
g O%mdboNu	hP71	S.64	S.02	S.0S	S.6h	6.Sh	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	1y.Py	14.SS	14.2S	14.6P	6.h1	ppm
I EOapEOeNa	- 172	1- 00.P2	1SPy.- 2	1S- 6.Py	1166.66	1y.P1	ppm
I OtJaaiNu	- h72	- 62- .h-	- 1- h.4y	- 2- 6.04	- - - - .- 0	0.6h	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				1SS		G
r cJodiNu	4y71				1Sy		G
r cJodiNu	4y72				h2		G
r bwboiNu	P271	S.4S	S.00	S.6h	S.62	- S.h6	ppm
r bwboiNu	0072	2S.S0	2y.2y	22.h1	22.04	11.41	ppm
r bwboiNu	0P72	y.yh	4.21	4.6-	4.P1	14.02	ppm
r iwcOo	2P71	164.0-	162.0h	16P.16	16y.22	1.6y	ppm
r iwRbe	1S071	S.- 6	S.- h	S.- y	S.- 0	y.1P	ppm
r iwRbe	1Sh71	S.- h	S.- 0	S.- P	S.- P	2.y0	ppm
r OdiNu	2- 72	20y.hP	220.12	2- 0.Sy	246.02	1S.40	ppm
r teOotiNu	P671	2SP.00	2Sy.S0	2S- .hS	2Sy.h2	1.24	ppm
r teOotiNu	PP71	221.P0	212.y6	212.- 0	21y.6S	2.y2	ppm
r NwNe	- 471	7212P.0P	72- 46.P6	71P26.- -	721SS.66		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S1		G
TEJwiNu	2S- 71	S.2S	S.1P	S.21	S.2S	0.P2	ppm
TEJwiNu	2Sy71	S.2S	S.1h	S.2S	S.2S	1.S6	ppm
Tio	11P71	2.61	2.- 6	2.y1	2.4h	y.S6	ppm
TitJoiNu	4071	hS.S0	hS.1h	h2.16	hS.PS	1.2h	ppm
F eJoiNu	2- P71	1.2S	1.26	1.26	1.24	2.64	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- 4.P-	- S.60	- S.64	- 2.Sy	0.y-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1SS		G
Zioc	6672	14S.yh	11h.14	12S.6-	126.0h	h.4y	ppm
ZiecOoiNu	hS71	1.P4	1.P-	1.P2	1.P-	S.44	ppm
ZiecOoiNu	h171	1.h4	1.P1	1.0-	1.P-	y.hP	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdPP:u sb r :9	S0JqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	1SN 4U64	1S - 4U6-	1S- JUN4	1S N- US-	2U0	DDe
q5Tb n5%	12171	SU-	SU44	SU4-	SU40	11U02	DDe
qpwr 5cd	0 72	16USN	1 U4S	14U0	1 U	4UJ	DDe
Bspcmb	1- 71	22 U01	104U06	10SUJ	1JSU	16U12	DDe
Bspcmb	1- 071	222U N	10NU-	102U1-	1JSUJ	14U	DDe
Br p%PPmb	J71	1U24	1US	1USS	1U1S	11U21	DDe
Bcwb mTE	2SJ71				11-		G
Bcwb mTE	2SJ72				1S6		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	1UJ4	1U44	2U14	1UN4	1JU1	DDe
v sob cmb	1S671	71U2N	7SU4J	7- U1	71U64		DDe
v sob cmb	11171	2U20	1UN0	1U0	1UJ6	1- UJ2	DDe
v sPdcmb	4- 71	4041- U4	- 0664U2	- 6J4- UNS	4S60- UN6	14U N	DDe
v sPdcmb	4471	4N66- U61	- J- - - U2	- NS - U1J	42S16U00	1- U0N	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpd5r	- 71						dDw
v EPhpd5r	- 72						dDw
v Epmb cmb	272	21UJJ	21U46	21U2S	21U	1UNN	DDe
v nesPT	J72	11U N	11U1J	11USN	11U2N	2U2	DDe
v nDDr p	6- 72	- 0U4J	- 6U41	- 6UN-	- 6UJ1	1U4N	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16 71				114		G
h nPb cmb	16 72				1S6		G
t5ocmb	11 71				111		G
t5ocmb	11 72				1SS		G
tpn5	472	2JS06U1-	2J- S0US1	2NN6SU61	2JSN1U2	SU00	DDe
tpn5	672	2J6J4U0-	2N6J0U-1	2N262U2-	2NNN4U06	2U4	DDe
tpn5	072	20 - U0J	20122U4N	26 - UJ4	20S06U04	1UN	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	- 0U2J	- SU2	2NUN	- 2U1-	14USN	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:u sb r :9	S0JqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- 4UJ	2NU14	20U6	- SUS-	1- U21	DDe
Lr so	2SN71	- US	2NUJ1	2NUJ	- SUJ2	12UN	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	2S02NUJ4	2S2- 2UJ	1J66NU4J	2S21SU1-	2U6-	DDe
y s5Ms5r wr	72	64JUN2	642U1	62 UJ2	6- JUS	1UJ1	DDe
y nP%eor 5mb	J471	4UJ-	4U0	4US2	4U44	1SU6	DDe
y nP%eor 5mb	J 71	1UN	1U-	1U6	1U42	JU66	DDe
y nP%eor 5mb	J671	1UJ0	1U0	1U1	1U04	1- UN	DDe
y nP%eor 5mb	J071	1U62	1UN	1U22	1U41	14U42	DDe
y nP%eor 5mb	JN71	1U6-	1U22	1U1	1UJ	1 U	DDe
u r no%b cmb	1 S71						dDw
u r no%b cmb	1 S72						dDw
u dkr P	6S72	20UN6	26U06	26U	20US6	2U61	DDe
8 EnwDEnpmw	- 172	46- NU6	4N2NUNN	4626UJS	46JNUS	2U41	DDe
8 nTswwcmb	- J72	4S- 6UJ1	- J60U4	- J- 1U61	- J0NU66	1U	DDe
CEnocmb	1S- 71				11S		G
CEnocmb	1S- 72				1S4		G
I ds5ocmb	4 71				1SJ		G
I ds5ocmb	4 72				J0		G
I r P 5cmb	N271	2U4S	2U11	1U0	2US2	2SUN6	DDe
I r P 5cmb	0072	20US1	- - UN	21U1N	20U1J	22U44	DDe
I r P 5cmb	0N72	0U6N	NU4-	6U0-	0U61	11U1J	DDe
I dBdn5	2N71	1J- U2N	142U20	1- 6UJN	1 0U1	1JU04	DDe
I dBr p	1S071	SU2N	SU24	SU22	SU2	11USJ	DDe
I dBr p	1SJ71	SUS	SU22	SU21	SU2	2SU4J	DDe
I nocmb	2- 72	1N4NU24	1N10UNS	100NUS-	1N14U6J	1UJ4	DDe
I Tpn5Tcmb	N671	42JUN2	- 2UNS	- - JU01	- 04U11	1- US1	DDe
I Tpn5Tcmb	NN71	4 2U14	- 61UN0	- 4JU66	- N0UNU	14U4-	DDe
I mPmp	- 471	2S1- USJ	74 - U26	701JU04	2NSUS-	- NUSN	DDe
Ar pecmb	1 J71				114		G
Ar pecmb	1 J72				1S4		G
AEsPBmb	2S- 71	SU2J	SU2	SU22	SU2	14U6	DDe
AEsPBmb	2S 71	SU20	SU21	SU2-	SU24	12UJN	DDe
Ad5	11N71	1US-	SUN1	SU0-	SUN6	1NUN	DDe
AdS5cmb	4071	1S1U4N	NSU0J	06U4N	N6U2	1 U4J	DDe
Rps5cmb	2- N71	NUJ1	6U0J	6U6-	0U2	12U00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DPr:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPr:t&:9	y h SF- J	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdPr:u sb r :9	S0JqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	172	44U1N	42US6	41U64	42U6-	- U2S	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11		G
YTTpomb	NJ72				1S		G
Zd5d	6672	206U0	201UN-	260UJ1	201UJ6	1U04	DDe
Zqpdn5omb	JS71	2U16	1UN4	1UN-	1UJ4	JU	DDe
Zqpdn5omb	J171	2U10	1UN2	1U00	1UJ2	11U10	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1122y.60	1Sy06.- 1	1119y.- S	111- 1.06	1.22	ppm
Aotiu Ooh	12171	S.26	S.4S	S.- 2	S.- -	2S.%9	ppm
Aesboic	0%72	22.29	22.%9	2- .S6	22.64	1.0%	ppm
BaeiNu	1- %71	14S.99	1y9.1%	161.10	166.0-	10.42	ppm
BaeiNu	1- 071	14- .11	2S2.y6	16S.%4	169.90	19.2-	ppm
BbehlliNu	y71	1.29	1.69	1.- 9	1.4%	14.26	ppm
Bisu NtE	2Sy71				y0		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	1.1-	2.- 2	1.4%	1.6-	- 0.y4	ppm
Uadu iNu	1S671	7S.%y	72.- -	7S.9-	71.2%		ppm
Uadu iNu	11171	1.Sy	1.46	1.1-	1.22	16.62	ppm
UalciNu	4- 71	6626- .40	y0S%4.42	099yy.%S	9S0- y.1-	1y.10	ppm
UalciNu	4471	602- - .y1	y4999.6-	00S9%49	0y0- 6.S1	10.%9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%2772	1y.0y	1y.1-	1y.4%	1y.46	1.0S	ppm
UOmalt	%y72	14.%4	14.11	14.- S	14.- 2	1.49	ppm
UOppbe	6- 72	- %%0	- 4.00	- %%0	- %- 1	1.- 1	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				yy		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				y%		G
IodiNu	11%72				y9		G
IeOo	%472	- 0y04.10	- 0- 1S.12	- 09- y.16	- 00S0.92	S.y-	ppm
IeOo	%672	- 0142.6S	- 692%y4	- 0%14.- 6	- 016S.y0	S.y-	ppm
IeOo	%072	- 4y1%%S	- 420S.S6	- %S29.42	- 40- 0.yy	1.19	ppm
KehptOo	9- 71						cps
Lbad	2S671	- 9.9S	%%S%	44.20	46.S4	10.y6	ppm

Reviewed By:Bin
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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	- 0.S4	%l.6S	41.%%	4- .4S	10.10	ppm
Lbad	2S971	- 9.S9	% .69	42.yy	44.y2	10.06	ppm
LitEiNu	671				99		G
g avobsiNu	2472	10yS4.42	10606.94	1060S.00	100%S.60	S.0%	ppm
g aovaobsb	%%72	- %%6S	- 4y.9-	- %9.40	- %4.6-	1.24	ppm
g OhmdboNu	y471	1S.S9	1- .%S	11.6y	11.06	14.%0	ppm
g OhmdboNu	y%71	1.- y	1.9%	1.61	1.62	14.- -	ppm
g OhmdboNu	y671	2.22	- .S0	2.66	2.6%	16.S2	ppm
g OhmdboNu	y071	1.40	1.06	1.%	1.%y	y.%0	ppm
g OhmdboNu	y971	1.- y	1.90	1.6S	1.62	14.62	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	- 9.26	- 6.- 0	- 0.21	- 0.29	2.%%	ppm
PEOspEOeNs	- 172	1412.2-	14y4.%9	14S2.9S	14- 6.%	- .%l	ppm
POtassiNu	- y72	206- .21	266S.y1	2019.11	2014.S9	1.9y	ppm
n EOdiNu	1S- 71				y4		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				y%		G
r caodiNu	4%72				y6		G
r blboiNu	9271	2.11	1.0-	1.60	1.94	1- .S0	ppm
r blboiNu	0072	- - .46	- - .06	2%46	- S.9y	1%2%	ppm
r blboiNu	0972	6.y4	9.S-	0.91	0.%y	0.%6	ppm
r ilicOo	2971	249.- 4	- - 9.12	20- .91	296.06	16.14	ppm
r ilRbe	1S071	S.2%	S.- 0	S.- S	S.- S	2S.%2	ppm
r ilRbe	1Sy71	S.2%	S.- 1	S.20	S.29	1S.y%	ppm
r OdiNu	2- 72	- 1- %09	- S- 2.y2	- S0%y2	- S91.%4	1.69	ppm
r teOotiNu	9671	- S- .99	42%29	- %6.Sy	- 61.0%	16.9-	ppm
r teOotiNu	9971	- 1y.0S	44- .y0	- 02.16	- 09.61	16.49	ppm
r NfNe	- 471	2140- .9y	- - 946.12	2%l6%S-	26929.- %	2- .60	ppm
TbemiNu	1%y71				y9		G
TbemiNu	1%y72				1S2		G
TEalliNu	2S- 71	S.29	S.41	S.- -	S.- 4	1y.12	ppm
TEalliNu	2S%71	S.20	S.42	S.- -	S.- 4	21.%	ppm
Tio	11971	- .6y	%19	4.- %	4.41	16.y9	ppm
TitaoiNu	4071	% .1%	04.19	%9.42	61.y2	10.60	ppm
F eaoiNu	2- 971	- .0S	%1-	4.2%	4.- 6	16.62	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataOilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%172	4y.64	49.12	49.S9	49.62	1.9-	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				yy		G
YtteiNu	9y72				1S2		G
Zioc	6672	16- .12	1%9.- 4	166.6y	162.02	2.%0	ppm
ZieoOoiNu	yS71	4.99	6.y0	%00	%90	10.92	ppm
ZieoOoiNu	y171	%Sy	6.y2	6.S%	6.S2	1%26	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	110hhF24	12S49FS8	11h6hF28	11h- 0FB0	1FS9	I I b
c n&Amon%	12171	SF1h	SF21	SF29	SF22	1- F2h	I I b
c rsenAq	0972	6Fh2	0F6S	8FS0	0F9-	0F60	I I b
BarAum	1- 971	18hFS-	1h- F0S	221F4h	2S1F41	8F01	I I b
BarAum	1- 071	188Fhh	1h4Fh4	22SF6h	2S1F94	8F- 6	I I b
Ber%lAum	h71	1F29	1F26	1F- h	1F- S	6F22	I I b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	SF92	SF4-	SF14	SF- 0	9- FhS	I I b
RaOmAum	1S671	74F- 8	71F2-	72F- 0	72F66		I I b
RaOmAum	11171	SF- 1	SF- 6	SF- 0	SF- 9	8F9h	I I b
RalqAum	4- 71	4hh8F1S	91h1F2-	981SF0S	9- - - F- 4	0Fh6	I I b
RalqAum	4471	94- SF26	948- F99	61h0FSh	90S- F64	0F91	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 971						ql s
REIorAne	- 972						ql s
REromAum	9272	2SFh1	2SF06	2SFh-	2SFB0	SF49	I I b
Robal&	9h72	0F1h	0FSh	0F22	0F16	SFh9	I I b
RoI I er	6- 72	2SF0h	2SF0S	2SFh0	2SFB2	SF66	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S6		G
DnOAum	11971				1S8		G
DnOAum	11972				1SS		G
Don	9472	22984F60	228S- Fh8	220S2F60	226h0F11	SF48	I I b
Don	9672	222S6F- 0	229- 6F4S	22Sh2F08	22208F92	1FS-	I I b
Don	9072	21S- - Fh4	21210FS1	2S0h8FB0	21S16F61	1FSS	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	29F19	29F26	20F40	29Fh6	9FS9	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	2- F4S	2- F0S	29F9-	24F21	4F06	l l b
LeaO	2S871	24F49	24F98	26F4h	29F18	4F9-	l l b
LA&EAum	671				hh		G
MagnesAum	2472	200SFS4	2018F-	208SF02	2096F- 6	1F21	l l b
Manganese	9972	48- F08	480FSS	482F46	484F41	SF48	l l b
Mol%bOenum	h471	2F69	2F09	- FSh	2F8-	8F29	l l b
Mol%bOenum	h971	SF00	SF60	SF81	SF09	hF29	l l b
Mol%bOenum	h671	SFh9	1FS2	1FSh	1FS2	6F69	l l b
Mol%bOenum	h071	SF0-	SF00	SFh2	SF81	12F24	l l b
Mol%bOenum	h871	SF6h	SF04	SF8S	SF04	0F2h	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	19Fh8	16FSS	16F2S	16FS6	SF0-	l l b
PEosI Eorus	- 172	921F42	9h9F8-	9- 9F48	99SFh1	0F18	l l b
Po&assAum	- h72	262hF06	26hSF- h	2019Fhh	2608F01	1F69	l l b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S-		G
p qanOAum	4971				1S0		G
p qanOAum	4972				h0		G
p elenAum	8271	SF62	SF94	1F1-	SF00	41F61	l l b
p elenAum	0072	4hF- 2	40F6h	9SF6S	4hF2S	2Fh6	l l b
p elenAum	0872	0F96	0F94	0F2h	0F46	2FS2	l l b
p AAqon	2871	1h0F80	2S4F19	2- 1FS-	211FS1	8F- 9	l l b
p Aver	1S071	SFS8	SF12	SF1S	SF1S	21F11	l l b
p Aver	1Sh71	SFSh	SFSh	SF1S	SF1S	6F86	l l b
p oOAum	2- 72	61F- 9	61F90	68F- 4	6- F09	6F2-	l l b
p &on&Aum	8671	86F8-	8hFhh	h0F42	h1F41	9Fh9	l l b
p &on&Aum	8871	h1F68	h4F06	1S2FSh	h6F10	9F96	l l b
p ulfur	- 471	72- 6- Fh9	72421F- 1	71662Fh4	7214hF4S		l l b
i erbAum	19h71				11S		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF2-	SF24	SF20	SF29	8F12	l l b
i EallAum	2S971	SF2-	SF22	SF24	SF2-	- F44	l l b
i An	11871	1F- 1	1F40	1F0-	1F91	14F1S	l l b
i &anAum	4071	124F9h	12hF41	144F92	1- 2F84	0F8-	l l b
UranAum	2- 871	1F41	1F44	1F9S	1F49	- FS4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RIAn&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	- - F24	- - F1S	- - F1S	- - F19	SF29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				1S8		G
ZAnq	6672	84F9h	84FS4	89F09	84F0h	1FS-	l l b
ZAqonAum	hS71	1F24	1F- -	1F49	1F- 4	0F02	l l b
ZAqonAum	h171	1F2h	1F28	1F- 4	1F- S	2F48	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1S000. y	11- h1.61	12h16.-	116hy.2	h.42	ppm
Aotiu Oo%	12171	S.yS	S.4h	S.yS	S.4h	1.S2	ppm
Aesboic	0y72	1y.- y	16.4-	1 .h0	16.h1	1S.h	ppm
BaeiNu	1- y71	100.24	1 0.1S	1 2.S0	1 2.14	2.01	ppm
BaeiNu	1- 071	10h.00	1 - .- 1	1 4.- h	1 2.4h	1.- 2	ppm
Bbe%liNu	h71	S. 6	S. 6	S. 2	S. y	2.6S	ppm
Bisu NtE	2Sh71				11S		G
Bisu NtE	2Sh72				hh		G
BeOu iob	171						cps
Uadu iNu	1S 71	2.S2	1.0S	1.-	1.0S	1 .hh	ppm
Uadu iNu	1S671	71.yh	72.- h	72.22	72.S0		ppm
Uadu iNu	11171	1. S	1.00	1.h0	1. y	y.hS	ppm
UalciNu	4- 71	- S- 0- . -	- 1446.- 4	- S- .1h	- S0- 6.12	2.SS	ppm
UalciNu	4471	- 1- 04.24	- 2S1- .11	- 1- 12.SS	- 1y66.4y	1.2-	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- y71						cps
UElOeiob	- y72						cps
UEeOu iNu	y272	2S.- h	21.00	2y.14	22.4-	1S.hS	ppm
UOmalt	yh72	1S.02	11.4y	12. h	11.6h	h.4y	ppm
UOppbe	6- 72	- S. -	- 1. 1	- 6.S1	- 2.	.-	ppm
D%speOsiNu	1y671						cps
D%speOsiNu	1y672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16y71				111		G
MOlu iNu	16y72				h0		G
IodiNu	11y71				1Sh		G
IodiNu	11y72				h2		G
IeOo	y472	- S0S4.- -	- - S26.- -	- 64S1.S0	- - - 00.24	.y	ppm
IeOo	y672	2h h2.1	- 1yS6.0h	- 026 .- 4	- 2 h.1S	11.0h	ppm
IeOo	y072	2 110.Sh	- S2 - . 0	- - h 4.- h	- S0hy.12	h.6-	ppm
Ke%ptOo	- 71						cps
Lbad	2S671	- - .10	- 4.2S	- - .6S	- - .66	1.y4	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S071	- 1.y4	- 2.0h	- 2.Sy	- 2.1-	1.hy	ppm
Lbad	2S 71	- 2.- 6	- - .2y	- 2.42	- 2.6	1.y2	ppm
LitEiNu	671				hh		G
g avobsiNu	2472	1- 4Sy.y0	1- 41.y	16S2 .S0	1442y.S0	h.04	ppm
g aovaobsb	yy72	411.4	4- 6.24	4h6.h4	44 .22	h. 1	ppm
g Ol%mdboNu	h471	- .h-	- .hS	- . y	- .hS	1.1S	ppm
g Ol%mdboNu	hy71	1.06	1.y0	1.6-	1.6y	y. S	ppm
g Ol%mdboNu	h671	1.h6	1.hy	1.	1.h-	2.46	ppm
g Ol%mdboNu	h071	1.y6	1.4	1.yh	1.y4	- .40	ppm
g Ol%mdboNu	h 71	1.0y	1.0h	1.04	1.06	1.4S	ppm
8 bOd%u iNu	1yS71						cps
8 bOd%u iNu	1yS72						cps
8 ickbl	6S72	2h.11	- S.- -	- - .40	- S.h0	0.20	ppm
PEOspEOeNs	- 172	21y2.6	220h.2S	2y46.60	2- 26.1	.6y	ppm
POtassiNu	- h72	- h6y.yS	426y.Sh	40 - .y1	4- - .S4	h.y4	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				h6		G
r caodiNu	4y71				1S0		G
r caodiNu	4y72				h		G
r blboiNu	271	S.	S.	S. 1	S. 6	4.y4	ppm
r blboiNu	0072	1 .yh	20.62	21.h1	22.01	2S.12	ppm
r blboiNu	0 72	4.60	6.- 4	0.60	6.2-	24.10	ppm
r ilicOo	2 71	21S.S0	21y.4h	2S .S2	211.2S	1. -	ppm
r ilRbe	1S071	S.2	S.- 2	S.2h	S.- S	0.Sh	ppm
r ilRbe	1Sh71	S.- S	S.- 2	S.- -	S.- 2	4.64	ppm
r OdiNu	2- 72	1- y.Sy	14 .4S	1 1. y	1yy.1S	1y.yy	ppm
r teOotiNu	671	h0.- 0	h- .12	h6.2S	hy.y0	2.- S	ppm
r teOotiNu	71	1S1.- 1	1SS.04	1SS.10	1SS.04	S.y6	ppm
r NfNe	- 471	71- 40.21	7h06. -	7110- .20	7116y.00		ppm
TbemiNu	1yh71				111		G
TbemiNu	1yh72				h6		G
TEalliNu	2S- 71	S.2h	S.- 4	S.- 1	S.- 1	.S0	ppm
TEalliNu	2Sy71	S.2h	S.2h	S.- S	S.2h	1.42	ppm
Tio	11 71	S.6-	S.60	S.61	S.64	4.h-	ppm
TitaoiNu	4071	0 .yS	1.46	06.- 4	0 .00	- .26	ppm
FeaoiNu	2- 71	1.h4	2.Sy	2.S	2.S2	- . S	ppm

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Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y172	46.0h	4h.1h	y4.hy	yS.- 1	.- -	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	h71				111		G
YtteiNu	h72				h4		G
Zioc	6672	1h1. 0	2S- . 1	220.yh	2S0.06	.0y	ppm
ZieoOoiNu	hS71	1.- 6	1.41	1.- 4	1.- 0	2.	ppm
ZieoOoiNu	h171	1.4-	1.-	1.2-	1.- y	0.y-	ppm

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LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20:2	7 1yN.27	71 N4.1N	71 77.0	71y0y. y	2.S	DDe
qCTb 5Ch	121:1	4y .44	4y2.S4	4NS.	4NN.61	1.40	DDe
qpwr Ccl	07:2	720.62	722.6y	717.62	721.yN	1.16	DDe
Bspcmb	1 7:1	24yy.yS	24yS.27	24N4.N	24y1.66	S. 1	DDe
Bspcmb	1 0:1	24NN.7N	240N.2N	241S.66	247y.10	1.02	DDe
Br phPmb	y:1	47y.N7	404.N2	460.02	460.46	1.6S	DDe
Bcwb mT%	2Sy:1				yN		E
Bcwb mT%	2Sy:2				y		E
Bp5b cCr	N1:1						dDw
3 sob cmb	1SN:1	4yS. 2	4yS.SS	4y0.22	4y2.71	S.N	DDe
3 sob cmb	1S6:1	4yN.12	4N .y2	402.N6	4N4.y0	2.61	DDe
3 sob cmb	111:1	4Ny.7N	4N6.S2	400.17	4N4.27	1. 2	DDe
3 sPlcmb	4 :1	2714y .02	24y1N1.1y	24 N4S.S	24N101.67	1.7N	DDe
3 sPlcmb	44:1	24SySy.N7	241S21.	24S40y.S4	24SNS .41	S.12	DDe
3 spe5C	12:1						dDw
3 spe5C	12:2						dDw
3 %P5pcCr	7:1						dDw
3 %P5pcCr	7:2						dDw
3 %p5b cmb	72:2	4yy.1y	4y .47	4N0.y6	4y .7	1.14	DDe
3 5esPT	7y:2	4yy.N4	4y4.7N	4yS.y4	4y7.12	S.yS	DDe
3 5DDr p	6 :2	72y0. N	7 SN. 1	7 26.26	7 1S.67	S.20	DDe
&hwDp5wcmb	176:1						dDw
&hwDp5wcmb	176:2						dDw
Gpecmb	164:1						dDw
Gpecmb	164:2						dDw
Hso5PlCcmb	16S:1						dDw
Hso5PlCcmb	16S:2						dDw
K5PP cmb	167:1				1S2		E
K5PP cmb	167:2				yN		E
tCocmb	117:1				y0		E
tCocmb	117:2				Ny		E
tp5C	74:2	1 S010.6N	12y70S. 4	12N7N0.47	12y627.16	S.N2	DDe
tp5C	76:2	1 S1y4.61	1 1217.	12yS24.2N	1 S144.04	S.N4	DDe
tp5C	70:2	1 10N. 1	1 16y .06	1244S1. S	12y070.0y	.62	DDe
k phDT5C	N :1						dDw
Lr so	2S6:1	2402.	24 6.y	247y.y4	2476.4S	S.0	DDe

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LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Cr T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0:1	24y2. N	246S.07	24N .yS	240y.S1	S.66	DDe
Lr so	2SN:1	24yS.Ny	24y0. y	27S0. 4	24yN.74	S.	DDe
LdP%mb	6:1				NN		E
MsgOr wmb	24:2	26444N.y4	261727.1y	26S077.26	26224 .1	S.04	DDe
MsOgsOr wr	77:2	72y1. 7	7260.6y	7207.SS	720N.S2	S.2	DDe
M5Pheor Omb	y4:1	4N44.21	4N .N1	4y 2.N1	4N0S.2N	1.12	DDe
M5Pheor Omb	y7:1	4N2N.S0	4N71.26	7S2N.1y	4yS2.71	2.2	DDe
M5Pheor Omb	y6:1	406y.44	4y21.Ny	7S 4.N1	4ySN.01	2.01	DDe
M5Pheor Omb	y0:1	4N47.7	4yS7. 0	7SS4.2N	4y1N. y	1.6	DDe
M5Pheor Omb	yN:1	4yS7.N	4y22.S6	7S7 .06	4y6S.77	1.64	DDe
ur 5ohb omb	17S:1						dDw
ur 5ohb omb	17S:2						dDw
udfr P	6S:2	7S0.2	7SN.71	7SN.S1	7S0.y2	S.1	DDe
8 %5wD%5pmw	1:2	yy2y.y0	y6 1.21	y0yy.4y	y0N6.Ny	1.7	DDe
8 5Tswwmb	y:2	1202Sy.17	12N1y .yy	126S7y.74	120174.2	S.N4	DDe
R%5omb	1S :1				y2		E
R%5omb	1S :2				Ny		E
I dsOomb	47:1				y4		E
I dsOomb	47:2				NN		E
I rPOmb	N2:1	462.44	46y.67	4N6.40	402.N7	2.61	DDe
I rPOmb	00:2	4yy. 7	7SS.2y	711.76	7S .0	1. 7	DDe
I rPOmb	0N:2	720.76	7SN.N4	7S0.N1	714.04	2.16	DDe
I dd5C	2N:1	722.7S	71N.7N	712.0N	710.y7	S.y4	DDe
I dPr p	1S0:1	4N0.0	402.60	406.N2	40y.S0	1.62	DDe
I dPr p	1Sy:1	4N6.44	404.N4	40y.7S	4NS.26	1.22	DDe
I 5omb	2 :2	20SSNy.7	264276.y4	264 2.20	266226.27	1.26	DDe
I Tp5CTomb	N6:1	1220 .41	12170.S7	120 1.67	12 N0. 0	2.47	DDe
I Tp5CTomb	NN:1	12SN0. 0	12Sy2.10	12260.10	1214N.yS	S.N4	DDe
I mPVmp	4:1	y000.NS	y211.12	NN24.6y	y201.2S	7.10	DDe
Ar pemb	17y:1				1S		E
Ar pemb	17y:2				y0		E
A%sPmb	2S :1	71 .24	4yy. 7	4y0.20	7S .2y	1.0	DDe
A%sPmb	2S7:1	7S0.6S	4y4.24	7S1.24	7S1.S	1.	DDe
AdC	11N:1	40N.yy	7S2.1y	4N1.y2	4N0.0S	2.7y	DDe
AdsOomb	40:1	7S47.42	7S6 .72	4y00.77	7S2N.N	S.yS	DDe
UpsOomb	2 N:1	7S1.S4	7SS.2S	710.y	7S6. y	1.yN	DDe

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LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DrP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 RrCT9l sb DrP9l&9J9	3 3 - S27	&drmT5C9FsdT5p9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdrP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	71:2	72N.N6	724.7y	722.66	727. 0	S.6S	DDe
YTTr peomb	102:1						dDw
YTTr peomb	102:2						dDw
YTTr peomb	106:1						dDw
YTTr peomb	106:2						dDw
YTTpomb	Ny:1				yN		E
YTTpomb	Ny:2				y1		E
ZdCd	66:2	7S00.42	4yy4.y6	7S14.16	7S2N.N7	S.N6	DDe
Zqpd5Comb	yS:1	400. N	4y .yS	4y0.N4	4Ny.01	2.22	DDe
Zqpd5Comb	y1:1	461.S0	466.S6	40N.yN	46N.01	1.y0	DDe

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LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	20 2	1.y7	2.S6	1.- y	1.86	17.2S	I I b
c 5&mn5h	121 1	S.1y	S.21	S.26	S.22	1- .70	I I b
c rse5Aq	0- 2	S.S2	S.S7	S.S2	S.S2	21.46	I I b
BarAum	17- 1	S.1-	S.14	S.1-	S.14	7.47	I I b
BarAum	170 1	S.17	S.16	S.27	S.10	28.21	I I b
BerhllAum	y 1	S.S0	S.S6	S.S0	S.S0	6.y8	I I b
BAsmu&%	2Sy 1				1S-		E
BAsmu&%	2Sy 2				1S4		E
BrnmA5e	81 1						ql s
3 aOmAum	1S8 1	S.10	S.1S	S.S6	S.SS	7111.14	I I b
3 aOmAum	1S6 1	- .S8	- .2S	- .64	- .71		I I b
3 aOmAum	111 1	S.S7	S.S6	S.S1	S.S7	6y.82	I I b
3 alqAum	47 1	16.y2	16.Sy	12.81	1- .28	14.24	I I b
3 alqAum	44 1	26.- S	7S.46	27.- -	26.84	12.y1	I I b
3 arbn5	12 1						ql s
3 arbn5	12 2						ql s
3 %nrA5e	7- 1						ql s
3 %nrA5e	7- 2						ql s
3 %nmAum	- 2 2	S.S1	S.S-	S.S0	S.S4	64.y2	I I b
3 nbal&	- y 2	S.S2	S.SS	S.SS	S.S1	11S.21	I I b
3 nI I er	67 2	S.62	S.6S	S.- 0	S.6S	4.- 6	I I b
t hsI rnsAum	1- 6 1						ql s
t hsI rnsAum	1- 6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
GaOnIA5Aum	16S 1						ql s
GaOnIA5Aum	16S 2						ql s
HnImAum	16- 1				1S-		E
HnImAum	16- 2				1S7		E
D5OAum	11- 1				1S7		E
D5OAum	11- 2				y0		E
Dn5	- 4 2	- .78	7.27	6.22	4.y4	71.16	I I b
Dn5	- 6 2	- .Sy	7.yS	4.77	4.44	17.- 8	I I b
Dn5	- 0 2	6.46	4.88	4.4y	- .28	1y.06	I I b
Krhl &n5	87 1						ql s
LeaO	2S6 1	S.2S	S.21	S.18	S.2S	y.0-	I I b

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LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
LeaO	2S0 1	S.24	S.21	S.22	S.22	- .- -	I I b
LeaO	2S8 1	S.24	S.22	S.2S	S.22	0.- S	I I b
LA%Aum	6 1				y7		E
Mag5esAum	24 2	0.- 8	0.72	8.S4	0.6-	4.04	I I b
Ma5ga5ese	- - 2	S.22	S.2S	S.22	S.21	6.4S	I I b
MnlhbOe5um	y4 1	S.- y	S.- 6	S.- 1	S.- -	0.60	I I b
MnlhbOe5um	y- 1	S.67	S.- 8	S.- S	S.- 0	11.60	I I b
MnlhbOe5um	y6 1	S.64	S.- 8	S.- 2	S.- 8	1S.10	I I b
MnlhbOe5um	y0 1	S.64	S.6S	S.- 2	S.- 8	1S.88	I I b
MnlhbOe5um	y8 1	S.60	S.- -	S.- S	S.- 8	1- .S1	I I b
NenOhmAum	1- S 1						ql s
NenOhmAum	1- S 2						ql s
NAqkel	6S 2	S.S7	S.S1	S.S8	S.S4	8- .18	I I b
P%nsI %nrus	71 2	71.- S	- 7.Sy	4- .10	47.2-		I I b
Pn&assAum	7y 2	28.yy	22.6-	7- .76	2y.SS	21.yS	I I b
R%nOAum	1S7 1				1S1		E
R%nOAum	1S7 2				1S2		E
pqa5OAum	4- 1				1SS		E
pqa5OAum	4- 2				y2		E
pele5Aum	82 1	S.22	S.S6	S.21	S.12		I I b
pele5Aum	00 2	S.78	S.78	S.0y	S.S1	- 2y0.S0	I I b
pele5Aum	08 2	S.7S	S.07	S.- 2	S.- 2		I I b
pAAqn5	28 1	S.10	S.26	S.14	S.1y	71.24	I I b
pAver	1S0 1	S.S4	S.S4	S.S7	S.S4	14.0S	I I b
pAver	1Sy 1	S.S4	S.S7	S.S7	S.S4	1y.64	I I b
pnOAum	27 2	08.S7	0S.- 8	07.41	04.S1	- .S8	I I b
p&n5&Aum	86 1	S.y8	S.86	S.60	S.84	1y.S0	I I b
p&n5&Aum	88 1	S.y2	S.04	S.0-	S.8S	12.64	I I b
pulfur	74 1	12y7.28	8SS.S1	1S28.88	1S4S.02		I I b
i erbAum	1- y 1				1S4		E
i erbAum	1- y 2				1S1		E
i %allAum	2S7 1	S.1y	S.1y	S.10	S.18	0.64	I I b
i %allAum	2S- 1	S.1y	S.1y	S.18	S.18	7.07	I I b
i A5	118 1	S.SS	S.S1	S.S7	S.SS		I I b
i A&a5Aum	40 1	S.77	S.77	S.42	S.76	14.- 1	I I b
Ura5Aum	278 1	S.S4	S.S7	S.S2	S.S7	20.16	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	- 1 2	S.S1	S.SS	S.S1	S.S1	40.46	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8y 1				1S1		E
Y&&Aum	8y 2				y6		E
ZA5q	66 2	S.12	S.20	S.70	S.2-	48.y-	I I b
ZAqn5Aum	yS 1	S.S-	S.S2	S.S4	S.S4	42.42	I I b
ZAqn5Aum	y1 1	S.S7	S.S1	S.S7	S.S2	67.2S	I I b

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Inst Id :P8

LB:umber p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tusb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdP:usb r :9	SN6qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	12 4- US-	1- 2 1U1N	12 06U2	1- S0SU10	1U40	DDe
q5Tb n5%	12171	SUJJ	SU6S	SUJ6	SUJ0	4U2N	DDe
qpwr 5cd	0J72	21UN4	2SU24	21U02	21U20	4U2S	DDe
Bspcmb	1- J71	2J2U2S	2J2U-0	2641U6S	2J6U	2U00	DDe
Bspcmb	1- 071	2J6U4S	2JJUN-	2641U0	2J USS1	1U 4	DDe
Br p%PRmb	71	1U12	1US	1U1-	1U11	1UN0	DDe
Bcvb mTE	2S 71				1S6		G
Bcvb mTE	2S 72				1S4		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U26	1U42	1U 2	1UN0	22U44	DDe
v sob cmb	1S671	72USS	71U J	71U4N	71UN1		DDe
v sob cmb	11171	1UN-	1UN6	1U -	1UN0	2U01	DDe
v sPdcmb	4- 71	J20S0U21	J1N- 0U2J	J1 - 4U44	J21J U6-	SU 1	DDe
v sPdcmb	4471	J- 04 UN2	J- 4NU	J44 1UJJ	J4S6- U4J	SU01	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- J71						dDw
v EPmpc5r	- J72						dDw
v Epmb cmb	J272	21UJ6	21U0	21UJ6	21U64	SU61	DDe
v nesPT	J 72	1- U 1	14U-1	14U10	14U1-	1U46	DDe
v nDDr p	6- 72	- 2U22	- 2U02	- 1U -	- 2U2	1U24	DDe
&%wDpnwcmb	1J671						dDw
&%wDpnwcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonR5cmb	16S71						dDw
HsonR5cmb	16S72						dDw
h nPb cmb	16J71				1SN		G
h nPb cmb	16J72				1S4		G
t5ocmb	11J71				1S-		G
t5ocmb	11J72						G
tpn5	J472	- J J- UJS	- 6SN6U2	- J4 NU00	- JN46U1	SUN6	DDe
tpn5	J672	- 62N0US-	- J461U0J	- J- 0- UJJ	- J0S0U44	1U41	DDe
tpn5	J072	- - - 2- US1	- - - J1UN2	- - 1 2US-	- - 2NNU J	SU26	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	4SU6	- U4	- U6	4SU2	1U4J	DDe

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Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPP:u sb r :9	SN6qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- NUJ0	- 0UNN	- NUJ6	- NU2S	SU0-	DDe
Lr so	2SN71	- UJ-	- NU0S	- U11	- US4	SUN2	DDe
LdEomb	671				6		G
y sM5r womb	2472	1- 16JUN4	1- 00- UJ0	1- 2N- USN	1- 4S0U4-	2U4S	DDe
y s5Ms5r wr	JJ72	4 0U6	JS- U06	4 NUJ0	JSSUS1	SU66	DDe
y nP%eor 5mb	471	JUS1	4U06	4U00	4UNJ	2U 0	DDe
y nP%eor 5mb	J71	2UN-	2UJ-	2UJS	2U62	6U -	DDe
y nP%eor 5mb	671	- US6	2UNJ	2UJ	2UN-	NUJS	DDe
y nP%eor 5mb	071	2U0	2U6N	2U44	2U64	6U00	DDe
y nP%eor 5mb	N71	2U -	2U62	2U40	2U60	NU0S	DDe
u r no%b omb	1JS71						dDw
u r no%b omb	1JS72						dDw
u dkr P	6S72	- JU4J	- JUN1	- JUNN	- JU01	SU66	DDe
8 EnwDEnpmw	- 172	1201U02	12J U60	1241U	12J0U0	1U1	DDe
8 nTswwomb	- 72	- 10SUS-	- 2- 2U41	- 1N6U0J	- 1 6U4S	1US1	DDe
CEnoomb	1S- 71				1S1		G
CEnoomb	1S- 72				1S2		G
I ds5oomb	4J71				1S-		G
I ds5oomb	4J72				6		G
I r P 5omb	N271	1UJ-	SU02	SUJ6	1USS	- SU64	DDe
I r P 5omb	0072	- JU2S	24UJ1	2 U4S	2 U0S	1NUS-	DDe
I r P 5omb	0N72	JUS6	JUJ	JUJ1	JUJ1	NU1S	DDe
I dBdn5	2N71	2- 2UJ-	226UJ4	22 US4	22 UJS	1U4S	DDe
I dBr p	1S071	SUJ	SUJ0	SUJN	SUJN	- U14	DDe
I dBr p	1S 71	SUJ0	SUJ0	SUJ	SUJN	- UJ	DDe
I nomb	2- 72	2N0U4J	2 6U6S	20JUNS	2N6U61	- U64	DDe
I Tpm5Tomb	N671	1J1US-	14NU1J	14JUJN	14NU1	1U 1	DDe
I Tpm5Tomb	NN71	1J6USS	1J4U0N	1J1U64	1J4U14	1U46	DDe
I mPmp	- 471	7 J0USJ	71S41U01	71SJ6U0J	71S1NUJS		DDe
Ar peomb	1J 71				1S0		G
Ar peomb	1J 72				1S-		G
AEsPBmb	2S- 71	SUJ4	SUJ-	SUJ1	SUJ-	2UJ6	DDe
AEsPBmb	2SJ71	SUJ0	SUJ6	SUJ4	SUJ6	2U	DDe
Ad5	11N71	SU02	SU04	SU02	SU0-	1U01	DDe
AdS5omb	4071	JJUJ1	JJUN4	JJU61	JJUJN	SU4N	DDe
Rps5omb	2- N71	2U41	2UJ4	2UJ-	2UJ6	1U02	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF40	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdP:u sb r :9	SN6qC. Fub

8 sspsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	J172	J6UJ	JNUJ	J6U14	J0U11	2U2N	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				1S0		G
YTTpomb	N 72				1S4		G
Zd5d	6672	16NU0S	101UJ	160U0J	16 U40	1US	DDe
Zqpdn5omb	S71	1U4N	1U64	1UJJ	1UJ6	JU22	DDe
Zqpdn5omb	171	1UJ	1UJ6	1U40	1U40	JU0	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1yP06.- -	1yh22.1S	1yh2P.P6	1yhSh.1S	S.1P	ppm
Aotiu Oo%	12171	1.1-	1.10	1.1-	1.14	1.06	ppm
Aeaboic	0y72	- 0.6S	- h.66	4S.Sh	- h.12	- .4S	ppm
BJeiNu	1- y71	46- .4P	46P.h0	4Py.1-	402.y-	2.- P	ppm
BJeiNu	1- 071	40S.2P	40S.62	4P6.62	40y.P4	1.h6	ppm
Bbe%wiNu	h71	2.SS	1.h2	1.Ph	1.h4	- .S-	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	- .0h	2.04	- .24	- .26	16.11	ppm
UJdu iNu	1S671	7S.1S	71.2-	S.P1	7S.1P		ppm
UJdu iNu	11171	2.00	- .SP	- .Sh	2.hP	6.1y	ppm
UJwiNu	4- 71	4yP0- .2P	4P- 4P.1S	4601h.y1	46hPS.2h	2.6P	ppm
UJwiNu	4471	4P114.y1	yS- - y.1h	4P1hP.S-	4PPP2.y0	2.y0	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	- S.2y	- S.y1	- S.S6	- S.20	S.04	ppm
UOmJw	yh72	14.4-	14.66	14.0y	14.61	1.11	ppm
UOppbe	6- 72	01.S2	01.1P	0S.62	0S.h4	S.41	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S6		G
IodiNu	11y71				1SP		G
IodiNu	11y72				hh		G
IeOo	y472	- y260.60	- yh1P.64	- y0h6.- 4	- y66S.PP	S.h0	ppm
IeOo	y672	- ySS6.2h	- 464S.2P	- y141.S1	- 4h2h.1h	S.04	ppm
IeOo	y072	- 20S- .S6	- 204h.41	- - - h1.SP	- 2h40.Py	1.10	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	- PP.6P	- 0P.44	- h2.26	- P6.46	1.P6	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	- 0- .yh	- yh.06	- 6h.1y	- 60.yS	1.h2	ppm
LbJd	2SP71	- 06.16	- 6h.- y	- 0h.Py	- 0y.12	1.42	ppm
LitEiNu	671				hP		G
g JvobaiNu	2472	h02y.S6	h000.41	1SS46.00	hP4h.0y	1.0y	ppm
g JovJobab	yy72	12S6.h6	121h.- y	122- .01	1216.60	S.01	ppm
g O%mdboNu	h471	0.- 0	0.hh	P.1y	0.P4	y.2y	ppm
g O%mdboNu	hy71	2.2h	2.44	2.20	2.- -	- .hP	ppm
g O%mdboNu	h671	- .S4	- .S-	2.0S	2.h2	6.06	ppm
g O%mdboNu	h071	2.- y	2.- h	2.46	2.4S	2.- S	ppm
g O%mdboNu	hP71	2.- 0	2.- 0	2.41	2.- P	S.h1	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	- S.yP	- S.4y	- 1.2P	- S.00	1.46	ppm
I EOapEOeNa	- 172	y422.16	y4S1.Py	y20P.Sh	y- 60.- 0	1.4y	ppm
I OtJaaiNu	- h72	h240.yh	h2P4.hS	hy1h.04	h- yS.04	1.yP	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r cJodiNu	4y71				1S0		G
r cJodiNu	4y72				h6		G
r bwboiNu	P271	1.S1	S.64	1.- 4	1.SS	- 4.hP	ppm
r bwboiNu	0072	2P.20	- 1.12	- 0.P4	- 2.41	1y.16	ppm
r bwboiNu	0P72	0.h2	6.6S	0.hy	0.4h	1S.20	ppm
r iwcOo	2P71	2- 2.41	24S.2-	2- 4.0-	2- y.0h	1.0S	ppm
r iwRbe	1S071	1.SS	1.S2	1.Sy	1.S2	2.01	ppm
r iwRbe	1Sh71	S.h6	1.SS	S.hP	S.hP	1.h4	ppm
r OdiNu	2- 72	2- 2.4P	22y.12	222.4P	226.6h	2.2h	ppm
r teOotiNu	P671	- - 2.y1	- - h.0y	- - P.y6	- - 6.h4	1.1y	ppm
r teOotiNu	PP71	- 4P.S2	- 4P.21	- 4- .h-	- 46.02	S.0S	ppm
r NwNe	- 471	41.6-	yS6.PP	4S.y-	1h6.- 4	1- 6.h0	ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S-		G
TEJwiNu	2S- 71	S.44	S.4S	S.41	S.41	y.14	ppm
TEJwiNu	2Sy71	S.- h	S.41	S.4-	S.41	y.S6	ppm
Tio	11P71	0.yh	0.4h	0.6h	0.yh	1.- 1	ppm
TitJoiNu	4071	1P6.y0	1h0.04	1hS.- 4	1h1.yy	2.h0	ppm
F eJoiNu	2- P71	2.S0	2.Sy	2.16	2.Sh	2.0-	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	6S.hh	6S.6S	61.hh	61.1h	1.10	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1S6		G
Zioc	6672	6SS.2P	yh- .6-	6S1.h-	yhP.61	S.0-	ppm
ZiecOoiNu	hS71	- .11	- .- 0	- .- 1	- .26	4.12	ppm
ZiecOoiNu	h171	- .- h	- .- P	- .2-	- .- -	2.yh	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1- 21- .- 1	1- Shh.12	12P2y.0P	1- S- 2.04	1.4P	ppm
Aotiu Oo%	12171	S.PP	S.PS	S.P0	S.Ph	4.0-	ppm
Aeaboic	0h72	- 4.10	- 6.12	- h.44	- h.24	2.P1	ppm
BJeiNu	1- h71	42- .16	- y4.1S	- y1.21	4S2.P2	4.- y	ppm
BJeiNu	1- 071	414.P0	- yP.4S	- P0.yh	4SS.41	- .- y	ppm
Bbe%wiNu	y71	1.6-	1.02	1.02	1.6y	2.P6	ppm
Biau NtE	2Sy71				1S0		G
Biau NtE	2Sy72				1Sh		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.- 4	2.20	2.26	2.2y	1.0h	ppm
UJdu iNu	1S671	S.P0	71.02	1.40	S.21	P24.16	ppm
UJdu iNu	11171	2.06	2.6-	2.04	2.01	2.6h	ppm
UJwiNu	4- 71	2S62y.06	1yh21.66	1y2PP.- 0	1yP1- .20	- .62	ppm
UJwiNu	4471	21h- h.P4	2S- 1- .1h	2SS14.h0	2S621.1P	- .y1	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEWOaiob	- h71						cpa
UEWOaiob	- h72						cpa
UEeOu iNu	h272	1y.h4	1y.66	1P.Py	1y.- 6	2.12	ppm
UOmJw	hy72	14.44	14.4S	14.2P	14.- 0	S.hh	ppm
UOppbe	6- 72	hh.16	h- .PS	h- .P0	h4.2P	1.42	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sh		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				yy		G
IeOo	h472	- SSPy.21	2yPhh.2-	2yhy4.0P	2yP46.41	S.P-	ppm
IeOo	h672	- S226.2-	2y4S1.60	2yS- P.26	2yhhh.- y	2.S6	ppm
IeOo	h072	20061.h0	20002.41	20Sy1.P-	20h41.y4	1.42	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	20S.y0	- S- .0-	2yh.- 0	2yS.S2	h.P0	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	262.22	266.- 6	2h- .y0	26S.Ph	2.42	ppm
LbJd	2SP71	2Ph.- 6	2y2.20	2PP.0P	2PP.PS	1.2S	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	hS2y.4P	4y0S.4y	4P44.- h	4y4P.11	1.y1	ppm
g JovJobab	hh72	1S4S.2y	1S24.6P	1SSy.1P	1S24.01	1.h2	ppm
g O%mdboNu	y471	0.26	0.- y	0.26	0.- S	1.S1	ppm
g O%mdboNu	yh71	1.P0	1.y2	1.P4	1.P0	2.16	ppm
g O%mdboNu	y671	2.40	2.41	2.h1	2.46	2.S2	ppm
g O%mdboNu	y071	1.y6	1.y1	1.y1	1.y-	1.6S	ppm
g O%mdboNu	yP71	2.S6	1.y1	1.0-	1.yS	P.P2	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.6S	2P.14	20.4h	20.0-	1.- S	ppm
I EOapEOeNa	- 172	41Sy.hS	- y1S.SP	41- 4.yS	4Sh1.4y	- .S4	ppm
I OtJaaiNu	- y72	60- S.0y	6016.26	6hy2.P4	660y.y0	1.1-	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1S-		G
r cJodiNu	4h71				1S-		G
r cJodiNu	4h72				y6		G
r bwboiNu	P271	S.y-	S.P-	1.2h	1.SS	21.06	ppm
r bwboiNu	0072	- - .0y	4- .- 0	2S.26	- 2.40	- h.00	ppm
r bwboiNu	0P72	6.- 2	6.66	h.yS	6.2y	6.S2	ppm
r iwcOo	2P71	24h.0h	2- 6.0P	2- 4.yh	2- y.16	2.42	ppm
r iwRbe	1S071	S.0-	S.01	S.06	S.0-	- .1S	ppm
r iwRbe	1Sy71	S.P1	S.04	S.06	S.00	4.6h	ppm
r OdiNu	2- 72	106.h6	106.S4	10- .1h	10h.2h	1.Sh	ppm
r teOotiNu	P671	161.Ph	1hy.y0	1h0.P4	1hy.Py	1.26	ppm
r teOotiNu	PP71	104.S2	164.- 2	16P.2y	16P.PP	2.Py	ppm
r NwNe	- 471	761h.hS	7126S.- 2	71h16.h6	711- S.0y		ppm
TbemiNu	1hy71				1S0		G
TbemiNu	1hy72				1Sh		G
TEJwiNu	2S- 71	S.- 4	S.- 2	S.- 0	S.- 4	0.46	ppm
TEJwiNu	2Sh71	S.- 4	S.- -	S.- 2	S.- -	1.P0	ppm
Tio	11P71	P.SP	0.PP	0.0y	0.y2	1.yS	ppm
TitJoiNu	4071	14y.- 1	14- .Py	14- .01	14h.64	2.1y	ppm
FeJoiNu	2- P71	2.1y	2.1S	2.11	2.1-	2.- P	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	hh.P0	h4.yy	hh.06	hh.h4	S.P6	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				1Sh		G
Zioc	6672	4S2.S6	- y- .SS	- yS.yP	- yh.- h	1.4y	ppm
ZiecOoiNu	yS71	- .- -	- .- y	- .- S	- .- 4	1.- h	ppm
ZiecOoiNu	y171	- .- -	- .4S	- .6-	- .4h	4.6S	ppm

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	12800U16	1- 104U40	1- 21- U1	1- S88U1	1U4S	I I b
c n&mon%	1217 1	1U1	1U42	1U4S	1U8	4U90	I I b
c rsenAq	0972	61U5-	66U9-	69U2S	64U99	- U60	I I b
BarAum	1- 97 1	4S- US1	440U55	490U85	4- 6U S	6U0S	I I b
BarAum	1- 07 1	4S5U41	461U2-	498U86	44- U10	6U6S	I I b
Ber%lAum	57 1	1U51	2U18	2U16	2US8	0U28	I I b
BAsmu&E	2S57 1				114		G
BAsmu&E	2S57 2				1S9		G
BromAne	817 1						ql s
v aOmAum	1S87 1	- U29	- U95	- U6S	- U48	9U08	I I b
v aOmAum	1S67 1	1U21	SU19	2U40	1U28	5SU52	I I b
v aOmAum	1117 1	2US6	2U40	2U40	2U -	1SU2-	I I b
v alqAum	4- 7 1	- 8S8SU21	4- 6S2U60	42946U54	414S5U54	0US8	I I b
v alqAum	447 1	- 885SU69	4401SU52	44020U20	42006U28	0U80	I I b
v arbon	127 1						ql s
v arbon	127 2						ql s
v ElorAne	- 97 1						ql s
v ElorAne	- 97 2						ql s
v EromAum	927 2	26U15	26U91	26U69	26U49	SU85	I I b
v obal&	957 2	12U5-	1- U18	1- U98	1- U2-	2U40	I I b
v ol I er	6- 7 2	56U46	50U28	56U40	56U0-	SU45	I I b
t %sI rosAum	1967 1						ql s
t %sI rosAum	1967 2						ql s
. rbAum	1647 1						ql s
. rbAum	1647 2						ql s
HaOolAnAum	16S7 1						ql s
HaOolAnAum	16S7 2						ql s
h olmAum	1697 1				112		G
h olmAum	1697 2				1S4		G
DnOAum	1197 1				1S5		G
DnOAum	1197 2				50		G
Don	947 2	- 252- U41	- - 525U44	- - 6- SU8	- - 454U41	1U94	I I b
Don	967 2	- - 22- U46	- - 6- 4U16	- 295- U60	- - 19SU4-	1U98	I I b
Don	907 2	- S010U25	- 1950U40	- S884U60	- 1S66U40	1U9S	I I b
Kr%l &on	8- 7 1						ql s
LeaO	2S67 1	159U9S	21SU0S	224U11	21SU1S	6U81	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	188U06	2S4U0	219U15	2S2U08	6U99	I I b
LeaO	2S871	2S4U5	22SU01	2- 9U21	22SU11	0US1	I I b
LA&EAum	671				58		G
y aMhesAum	2472	1- - S0U08	1- 45- U18	1- 152U49	1- - - 1U14	1U14	I I b
y anManese	9972	1- 20US-	1- - 9U4S	1- - 2U25	1- - 1U90	SU2	I I b
y ol%bOenum	5471	1SU41	11U9S	11U86	11U29	6U0-	I I b
y ol%bOenum	5971	- U4-	- U98	- U64	- U99	- USS	I I b
y ol%bOenum	5671	4US-	4U41	4U46	4US	9U94	I I b
y ol%bOenum	5071	- U12	- U99	- U0-	- U40	5US9	I I b
y ol%bOenum	5871	- US	- U90	- U02	- U9-	6US-	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2U40	- 2U85	- - U2S	- 2U89	1U12	I I b
PEosI Eorus	- 172	25- 6U5S	2848U56	2610U16	28S1US1	9U5S	I I b
Po&assAum	- 572	468SU1S	4612U45	46- SU54	4641U18	SU09	I I b
CEoOAum	1S- 71				1S0		G
CEoOAum	1S- 72				1S1		G
pqanOAum	4971				1S8		G
pqanOAum	4972				54		G
pelenAum	8271	1U68	1U6	1U45	1U91	1SU8S	I I b
pelenAum	0072	44U08	- 8U44	48US1	4- U04	11U1-	I I b
pelenAum	0872	1SU1	5U22	1SU94	1SUS2	0US9	I I b
pAAqon	2871	188U84	218U55	21SUS-	2S9U59	0U92	I I b
pAger	1S071	SU5-	1U12	1US5	1US9	5U95	I I b
pAger	1S571	1US-	1U19	1U14	1U11	6US2	I I b
poOAum	2- 72	482U54	450U1S	454U9S	451U91	1U9-	I I b
p&ona&Aum	8671	21- U99	220U48	2- 2U80	224U64	4U44	I I b
p&ona&Aum	8871	22SUS0	2- 1U89	244U0	2- 2U1S	9U2-	I I b
pulfur	- 471	71698U-	7608U94	7568U0S	711S1U86		I I b
i erbAum	19571				112		G
i erbAum	19572				1S4		G
i EallAum	2S- 71	SUS	SU9	SU5	SU9	1- US5	I I b
i EallAum	2S971	SU-	SU0	SU8	SU6	0U16	I I b
i A	11871	9U1-	9U80	9U80	9U62	0U95	I I b
i A&anAum	4071	189U4-	2S0U09	2S9U05	155U66	6U15	I I b
RranAum	2- 871	- US6	- U0	- U66	- U0	8U52	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	9172	98U22	95U64	95USS	98U59	1U21	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8571				114		G
Y&&Aum	8572				1S9		G
ZAnq	6672	925U-1	9- 2U45	920U6-	925U81	SU40	l l b
ZAqonAum	5S71	4U91	4U08	4U84	4U01	- U0-	l l b
ZAqonAum	5171	4U46	4U59	9USS1	4U81	6U20	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 I r SstoS:	aswl sP
Lse psb I P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb I P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr I 1	ConRr I 2	ConRr I -	Avg. Conc.	ConcRp X	Unitw
APmb inimb	23O2	N69J.N1	N693.6-	N36- .26	N6J- .93	O.6J	I I e
Antib ony	12101	O.16	O.2O	O.19	O.13	14.94	I I e
ASvr nic	39O2	N.63	N.- O	N.4-	N.43	2.1J	I I e
BsSmb	1- 901	2N3.- 1	236.13	231.4N	23N.- 2	2.J2	I I e
BsSmb	1- 301	2J1.JN	23N.N1	236.9O	2N2.4-	2.J6	I I e
Br SyPmb	J01	2.- 1	2.49	2.- N	2.- N	2.JJ	I I e
Biwb mth	2OJ01				1O6		%
Biwb mth	2OJO2				1O-		%
BSob inr	N101						cl w
Csdb imb	1ON01	1.O2	O.66	O.3-	O.NO	2- .J2	I I e
Csdb imb	1O601	2.6-	01.J6	0O.41	O.ON	236N.4N	I I e
Csdb imb	11101	O.N-	O.32	O.N1	O.3N	3.34	I I e
CsPimb	4- 01	63- 2.69	644O.29	62JJ.6O	64JO.N-	- .4O	I I e
CsPimb	4401	3O- O.N9	63- 1.2-	6NO3.34	6N96.61	2.23	I I e
CsSeon	1201						cl w
CsSeon	12O2						cl w
ChPSnr	- 901						cl w
ChPSnr	- 9O2						cl w
ChSob imb	92O2	3.19	3.29	3.2O	3.2O	O.66	I I e
CoesP	9JO2	6.- 4	6.- O	6.44	6.- 6	1.19	I I e
Col I r S	6- O2	14.12	1- .JN	14.16	14.OJ	O.63	I I e
XywI Sowimb	19601						cl w
XywI Sowimb	196O2						cl w
ESeimb	16401						cl w
ESeimb	164O2						cl w
GsdoPhimb	16O01						cl w
GsdoPhimb	16OO2						cl w
HoPb imb	16901				1O6		%
HoPb imb	169O2				1O9		%
Dndimb	11901				1O-		%
Dndimb	119O2				JJ		%
DSon	94O2	23- 69.N3	2NONJ2.11	2N- O9.3N	23J13.J2	1.36	I I e
DSon	96O2	266OJ.66	23- J3.63	2343J.O2	23162.12	1.33	I I e
DSon	93O2	291- 2.41	2911J.21	29J62.42	294O4.6N	1.JO	I I e
KSyI ton	N- 01						cl w
Lr sd	2O601	- 3.3-	- 3.22	- 6.11	- 3.O2	2.24	I I e

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Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l IP DX :	5 - 4430O- XL7 2	DnwtSmb nr t usb r :	8 N
CIPr nt psb l IP DX :	MHOF13	XiPntion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Lr sd	2O301	- 6.26	- 9.44	- 4.94	- 9.41	2.44	l l e
Lr sd	2ON01	- 3.N4	- 3.O-	- 6.O3	- 6.JN	2.4O	l l e
Lithimb	601				J6		%
Msgnr wimb	24O2	26N1.2-	264J.9-	26N2.43	2631.ON	O.3O	l l e
Msngsnr wr	99O2	19ON.3O	1919.6J	192- .4N	1919.J6	O.4J	l l e
MoPyedr nmb	J401	2.6O	2.NN	2.61	2.3O	6.O2	l l e
MoPyedr nmb	J901	1.29	1.2N	1.26	1.26	1.22	l l e
MoPyedr nmb	J601	1.9O	1.4-	1.4-	1.49	2.NO	l l e
MoPyedr nmb	J301	1.4O	1.22	1.42	1.- 9	N.ON	l l e
MoPyedr nmb	JN01	1.- O	1.29	1.29	1.23	2.- 6	l l e
u r odyb imb	19O01						cl w
u r odyb imb	19O02						cl w
u ickr P	6O02	11.4O	11.42	11.3O	11.91	1.46	l l e
8 howl hoSmw	- 1O2	6NJ.- 9	623.6N	6O3.J-	641.69	6.62	l l e
8 otswwimb	- JO2	4949.6O	49J6.42	4992.21	4964.39	O.61	l l e
Rhodimb	1O- 01				1O2		%
Rhodimb	1O- 02				1O-		%
p csndimb	4901				1O1		%
p csndimb	49O2				J9		%
pr IPnimb	N201	1.- 2	1.3-	1.- J	1.4N	14.3J	l l e
pr IPnimb	33O2	J6.- N	NJ.O6	JN.- 3	J4.6O	9.1N	l l e
pr IPnimb	3NO2	16.- J	16.6J	13.31	16.J-	4.11	l l e
piIPcon	2N01	12N.6J	121.41	113.6N	122.9J	4.93	l l e
piPr S	1O301	O.19	O.13	O.14	O.19	N.NN	l l e
piPr S	1OJ01	O.13	O.16	O.14	O.16	11.22	l l e
podimb	2- O2	4- .J3	- J.JJ	44.41	42.3J	9.6J	l l e
ptSontimb	N601	4- .16	44.O6	42.93	4- .26	1.3-	l l e
ptSontimb	NN01	4- .2-	42.31	42.24	42.3-	1.13	l l e
pmIPmS	- 401	011O- .22	0162N.NN	01J21.42	01991.13		l l e
Tr Seimb	19J01				1O9		%
Tr Seimb	19JO2				1O-		%
ThsIPmb	2O- 01	O.- O	O.- 1	O.29	O.2J	1O.1O	l l e
ThsIPmb	2O901	O.2J	O.2N	O.26	O.2N	- .N6	l l e
Tin	11N01	1.61	1.6O	1.9N	1.6O	O.N3	l l e
Titsnimb	4301	2N- .N6	2NO.11	23O.O6	23N.O1	2.93	l l e
USsnimb	2- N01	2.13	2.1-	2.1O	2.1-	1.3-	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Vsnsdimb	91O2	1J.O9	1J.N3	1J.6J	1J.94	2.21	l l e
Yttr Seimb	13201						cl w
Yttr Seimb	13202						cl w
Yttr Seimb	13601						cl w
Yttr Seimb	13602						cl w
YttSmb	NJ01				11J		%
YttSmb	NJ02				12O		%
Zinc	6602	16- .23	193.JN	166.J4	162.3-	2.33	l l e
ZiSconimb	JO01	OJ6	ONJ	OJO	OJ2	4.1-	l l e
ZiSconimb	J101	OJ-	ONI4	OJ2	OJO	9.63	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
i lumTbTum	23O2	nO38.96	n864.23	11932.83	1O131.nO	12.94	ppb
i oDTmdoy	12101	O.19	O.16	O.19	O.19	2.- 1	ppb
i rseoTA	39O2	8.68	n.99	1O.88	n.3O	11.- 8	ppb
BarTum	1- 901	236.62	23n.99	2n1.12	282.4-	2.31	ppb
BarTum	1- 301	236.9n	286.29	288.- 4	28- .3-	2.21	ppb
BerylTum	n01	2.4-	2.44	2.41	2.4-	O.4n	ppb
BTsmuDn	2Onn01				11O		%
BTsmuDn	2Onn02				n6		%
BrdmTbe	8101						Aps
CaqmTum	1O801	O.62	1.O8	O.33	O.8-	28.8-	ppb
CaqmTum	1O601	1.- 4	0O.34	0O.n2	0O.11		ppb
CaqmTum	11101	O.8O	O.36	O.83	O.81	6.6n	ppb
CalATum	4- 01	6- nn.O2	6- - 6.83	66O8.9O	6448.1-	2.21	ppb
CalATum	4401	68nO.36	6n91.n-	6839.n2	6nO6.2O	O.98	ppb
Carbdo	1201						Aps
Carbdo	12O2						Aps
ChldrTbe	- 901						Aps
ChldrTbe	- 9O2						Aps
ChrdmTum	92O2	3.- 9	3.nn	n.39	8.- 6	14.88	ppb
CdbalD	9nO2	6.48	6.nn	8.- n	3.28	1- .96	ppb
Cdpper	6- O2	1- .46	14.68	13.24	19.1-	12.39	ppb
XysprdsTum	19601						Aps
XysprdsTum	196O2						Aps
ErbTum	16401						Aps
ErbTum	164O2						Aps
GaqdlTbTum	16O01						Aps
GaqdlTbTum	16O02						Aps
HdlmTum	16901				111		%
HdlmTum	169O2				nn		%
IoqTum	11901				1O6		%
IoqTum	119O2				n2		%
Irdo	94O2	2n33- .63	- 2- - - .81	- 3644.43	- - 29O.69	12.O3	ppb
Irdo	96O2	2846n.- 9	- 2133.8n	- 346n.3-	- 23O9.69	1- .8-	ppb
Irdo	93O2	2681- .3-	2n89n.O2	- 466O.86	- O444.94	12.nn	ppb
KrypDio	8- 01						Aps
Leaq	2O601	- 8.O2	- 3.82	- 3.n6	- 3.n-	O.26	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD1r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
CITeoDSample IX :	MHOF18	XTuDEio FaAD1r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
Leaq	2O301	- 9.66	- 9.1O	- 3.4n	- 6.On	- .46	ppb
Leaq	2O801	- 3.33	- 3.On	- 8.93	- 3.81	1.n9	ppb
LTDTum	601				1O1		%
MagoesTum	24O2	2688.41	2881.32	- - 99.O-	2n39.O9	11.9-	ppb
Maogaoese	99O2	1994.8-	13On.44	2O16.O1	136O.On	1- .- 4	ppb
Mdlybqeoum	n401	2.69	2.99	2.92	2.93	2.6-	ppb
Mdlybqeoum	n901	1.41	1.2-	1.- 4	1.- -	6.86	ppb
Mdlybqeoum	n601	1.4n	1.4O	1.4-	1.44	- .O9	ppb
Mdlybqeoum	n301	1.28	1.22	1.29	1.29	2.13	ppb
Mdlybqeoum	n801	1.- 1	1.2n	1.- O	1.- O	O.82	ppb
NedqymTum	19O01						Aps
NedqymTum	19O02						Aps
NTAkel	6O02	11.3O	12.8n	14.36	1- .12	11.38	ppb
Phdsphdrus	- 102	9- O.O3	6O6.4-	39O.31	62n.O3	13.81	ppb
PdDassTum	- nO2	4214.1n	46- - .36	9424.96	4393.9O	12.n2	ppb
RhdqTum	1O- 01				1O3		%
RhdqTum	1O- 02				n6		%
SAaoqTum	4901				1O3		%
SAaoqTum	49O2				8n		%
SeleoTum	8201	1.91	1.61	1.6-	1.98	4.14	ppb
SeleoTum	33O2	84.- -	88.3O	1O9.8-	n2.n9	12.2-	ppb
SeleoTum	38O2	1n.11	2O.96	24.99	21.41	1- .19	ppb
STTAdo	2801	1- 1.n1	126.3O	1- 6.69	1- 1.39	- .38	ppb
STver	1O301	O.19	O.16	O.19	O.16	9.14	ppb
STver	1On01	O.16	O.16	O.1n	O.13	11.46	ppb
SdqTum	2- 02	8- .OO	n4.21	1- 2.O6	1O- .On	24.n4	ppb
SDdoDTum	8601	49.89	44.O6	49.98	49.13	2.1-	ppb
SDdoDTum	8801	44.n2	4- .31	49.6-	44.39	2.13	ppb
Sulfur	- 401	022n2.O8	02941.13	02- n1.49	024O8.2-		ppb
&erbTum	19n01				11O		%
&erbTum	19n02				n3		%
&hallTum	2O- 01	O.2n	O.23	O.2n	O.28	- .- 8	ppb
&hallTum	2O901	O.23	O.2n	O.23	O.28	- .nn	ppb
&TD	11801	2.- 1	2.4-	2.98	2.44	9.96	ppb
&TaoTum	4301	282.3n	238.22	283.49	282.82	1.6-	ppb
UraoTum	2- 801	2.O3	2.16	2.12	2.12	2.1n	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
VaoaqTum	91O2	1n.nn	21.4-	29.12	22.18	11.n-	ppb
YDerbTum	13201						Aps
YDerbTum	13202						Aps
YDerbTum	13601						Aps
YDerbTum	13602						Aps
YDDTum	8n01				12-		%
YDDTum	8n02				111		%
ZTbA	6602	163.23	189.12	214.92	188.n3	12.6-	ppb
ZTAdoTum	nO01	O.86	O.88	O.n1	O.8n	2.68	ppb
ZTAdoTum	n101	O.n4	O.88	O.82	O.88	6.n4	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTop:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr Tu wb r :9	Na
v 8r nTl wb D8 :t&:9	y h SF2-	&8mTon:FwqTop:9	1
&wTr :i :Adb r : qdmqpr O.9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FUD

Nwpwb r Tr p	y wl l	v onCr D1	v onCr D2	v onCr D-	gMU:v onqU	v onqCl &	RndT
8mb cncmb	2072	1S10aU46	1S245U21	1S1SaU5J	1S10aUa0	SU65	DDe
nTb on%	12171	SUJ5	SU61	SU6a	SU6-	0U02	DDe
pl r ncq	0J72	1JU0S	1JU5J	16U15	1JU5J	1UJ-	DDe
Bwpcmb	1- J71	202U06	206U0a	251Ua-	2aSU46	- UJ5	DDe
Bwpcmb	1- 071	20JU1S	205U42	25aUSJ	2a4U15	4U25	DDe
Br p%8cmb	571	2U40	2U4a	2U62	2UJ2	- U24	DDe
Bdl b mTE	2S571				11S		G
Bdl b mTE	2S572				1SJ		G
Bpob cnr	a171						qDl
v wOb cmb	1Sa71	2U02	1U54	2U6-	2U4-	10UJ0	DDe
v wOb cmb	1S671	1U-1	SU6a	7SUS0	SU64	1SaU-2	DDe
v wOb cmb	11171	1U2S	1U-0	1U2J	1U20	6U6S	DDe
v w8qcmb	4- 71	22- 0aU0a	22645Ua4	24124U26	2- SJSU56	4USa	DDe
v w8qcmb	4471	2- 4- 5UJ5	2- JJ2U16	24041U01	2- 511U1J	- US2	DDe
v wpeon	1271						qDl
v wpeon	1272						qDl
v E8pcnr	- J71						qDl
v E8pcnr	- J72						qDl
v Epob cmb	J272	14Ua1	14U6a	1JUS6	14UaJ	1U25	DDe
v oewBT	J572	1SU61	1SU-6	1SUJJ	1SUJ1	1U24	DDe
v oDDr p	6- 72	2aU0S	2aUJ1	2aUaS	2aU60	SUJ-	DDe
&%Dpol cmb	1J671						qDl
&%Dpol cmb	1J672						qDl
. pecmb	16471						qDl
. pecmb	16472						qDl
HwOb8ncmb	16S71						qDl
HwOb8ncmb	16S72						qDl
h o8b cmb	16J71				11-		G
h o8b cmb	16J72				1S4		G
tnOcmb	11J71				1Sa		G
tnOcmb	11J72				50		G
tpon	J472	20J46U10	20145U55	260- - UJ-	2014- U2-	1UJS	DDe
tpon	J672	26265U-J	20SJ1U15	26224U-1	26J14U5J	1U0J	DDe
tpon	J072	24aJ4U55	2J201U02	24515U2S	2JS1JU-S	SU5S	DDe
Kp%DTon	a- 71						qDl
Lr wO	2S671	5SU1S	52U4-	5- U52	52U1J	2US5	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTl wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O:9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FUD

Nwpwb r Tr p	y wl l	v onCr D1	v onCr D2	v onCr D-	gMUv onqU	v onqCl &	RndT
Lr wO	2S071	a6U45	a0Ua4	51U25	aaUJ4	2U05	DDe
Lr wO	2Sa71	a5U11	a5UJ0	52U01	5SU40	2U10	DDe
LdEomb	671				1SS		G
y wMhr l omb	2472	6J16U16	64J- U02	640SU44	64aSU11	SUJS	DDe
y wnMwnr l r	JJ72	JJ4U1J	J61U6S	JJ2U1a	JJJU5a	SUa5	DDe
y o8%eOr nmb	5471	21U06	22UJ4	2- U0S	22U60	4U25	DDe
y o8%eOr nmb	5J71	1UJ J	1UJ5	1U40	1U4S	4UJ2	DDe
y o8%eOr nmb	5671	- UJ4	- UJ4	- U65	- UJ-	4U5-	DDe
y o8%eOr nmb	5071	1UJ4	1U21	1UJS	1UJ J	1SU6a	DDe
y o8%eOr nmb	5a71	1U24	1U26	1U4-	1UJ1	aUS2	DDe
u r oO%b omb	1JS71						qDl
u r oO%b omb	1JS72						qDl
u cqkr 8	6S72	21U12	2SU4J	21U1J	2SU51	1U51	DDe
NEol DEopml	- 172	246aU5S	2462U24	2- 25U02	242SU25	- U24	DDe
NoTwl omb	- 572	J- S2USS0	J- 21U6a	J424U6-	J- 45U46	1U2-	DDe
CEoOomb	1S- 71				1S6		G
CEoOomb	1S- 72				1S2		G
l qwnOomb	4J71				1S6		G
l qwnOomb	4J72				5J		G
l r 8 nomb	a271	1US1	SUa5	1UJ1	1U14	25US1	DDe
l r 8 nomb	0072	4SUa5	4- U1S	- 6US1	4SUSS	5USS0	DDe
l r 8 nomb	0a72	11U6J	1SUJS	5USS6	1SUJ4	12UJ0	DDe
l 8qon	2a71	2SJU5S	2SaUJ0	22- U1-	212U40	4UJa	DDe
l 8gr p	1S071	SUJJ	SUJS	SUJ-	SUJ2	4Ua4	DDe
l 8gr p	1S571	SU4a	SU62	SUJ4	SUJJ	12U0a	DDe
l oOomb	2- 72	146U22	146USJ	146USS	146US5	SUSa	DDe
l TponTomb	a671	1S- USS0	1S6UJ4	11- U1-	1S0UJa	4U0J	DDe
l TponTomb	aa71	1S5U5-	11SUJ4	115U05	11- U42	4Ua0	DDe
l m8mp	- 471	71- a4U41	7125- U6S	7J11U45	71S6- U10		DDe
Ar peomb	1J571				111		G
Ar peomb	1J572				1S-		G
AEw8omb	2S- 71	SU2S	SU2S	SU22	SU21	6USS2	DDe
AEw8omb	2SJ71	SU22	SU2S	SU22	SU21	6U2-	DDe
Aon	11a71	4UJ-	- U16	- UJ1	- U60	16U4-	DDe
AdTwnomb	4071	1J0USS	1J0U22	164U11	1J5U44	2UJ4	DDe
Rpwnomb	2- a71	2U66	2U64	2U05	2U0S	- USS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTl wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O:9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FU0

NwpwbrTrp	y wl l	v onCr D1	v onCr D2	v onCr D-	gM:v onqU	v onqCl &	RndT
VwnwOmb	J172	- 5U44	- 5U46	4SU46	- 5U05	1U40	DDe
YTrpeomb	10271						qDl
YTrpeomb	10272						qDl
YTrpeomb	10671						qDl
YTrpeomb	10672						qDl
YTpomb	a571				11-		G
YTpomb	a572				1S6		G
Zonq	6672	021Ua5	0- SU14	0- 1U2-	020U0J	SU0S	DDe
Zqqqonomb	5S71	11UJ6	12USS	12Ua1	12U12	JU24	DDe
Zqqqonomb	5171	11Ua5	11U50	12U05	12U22	4U1S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129I0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsmea&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRumA5Aum	20:2	SF06	1F S	2F2S	1F62	46F81	l l b
c5&Amn5h	121:1	SF51	SF51	SF51	SF51	70F74	l l b
crwe5Aq	0-:2	SF57	:SF51	SF5S	SF51	7-SF87	l l b
BsrAum	17-:1	SF51	SF58	SF50	SF5-	06F17	l l b
BsrAum	170:1	SF56	SF51	SF56	SF54	02F 0	l l b
BerhFAum	:1	SF5S	SF51	SF51	SF51	42F 0	l l b
BAumu&%	2S :1				1S		E
BAumu&%	2S :2				-		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	:SF14	:SF1S	:SF52	:SF5		l l b
CsOmAum	1S6:1	:4F64	:6F08	: F56	:6F87		l l b
CsOmAum	111:1	:SF57	:SF50	:SF1S	:SF50		l l b
CsRqAum	47:1	:SF06	7F22	11F1	4F-	177F0-	l l b
CsRqAum	44:1	:1F 1	2F6S	F68	7F46	168F S	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	SF5-	SF20	SF1S	SF14	86F6-	l l b
CnbsR&	- :2	SF51	SF5S	SF5S	SF5S	60SF S	l l b
CnI I er	67:2	SF1-	SF74	SF10	SF22	40F62	l l b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S		E
HnRmAum	16-:2				4		E
D5OAum	11-:1				1S		E
D5OAum	11-:2				8		E
Dn5	-4:2	1F2-	2F1-	7F40	2F2	48F00	l l b
Dn5	-6:2	SF46	1F02	4F22	2F17	8 F0	l l b
Dn5	-0:2	:1F77	2F 8	0F7S	2F 8	144F67	l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF52	SF51	SF54	SF52	07F87	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129I0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S2	SF5S0	SF5S-	SF5S4	-4F18	I I b
LesO	2S8:1	SF5S4	SF5S7	SF5S7	SF5S7	7F8S	I I b
LA&%Aum	6:1						E
y sM5ewAum	24:2	SF6	SF-8	1F88	1F5S-	68F7	I I b
y s5Ms5ewe	- - :2	SF5S6	SF14	SF18	SF17	4 F77	I I b
y nPbOe5um	4:1	SF5SS	SF5S1	SF5S-	SF5S2	14SF5S8	I I b
y nPbOe5um	- :1	SF5SS	SF5SS	SF5S7	SF5S1	127F5S8	I I b
y nPbOe5um	6:1	SF5S2	SF5SS	SF5S7	SF5S2	0 F-6	I I b
y nPbOe5um	0:1	SF5S7	SF5S1	SF5S2	SF5S2	-0F-7	I I b
y nPbOe5um	8:1	SF5S1	SF5SS	SF5S1	SF5SS	- F-6	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	:SF5S2	SF5SS	SF5S6	SF5S1	2-4F1S	I I b
3%nwl %nruw	71:2	:0SF-7	:-SF06	:4 F81	:-0F5S7		I I b
3n&swwAum	7 :2	:11F22	28F07	:8F08	2F 1	06 F72	I I b
v %nOAum	1S7:1				1S0		E
v %nOAum	1S7:2				7		E
pqs5OAum	4- :1				1S-		E
pqs5OAum	4- :2				8-		E
pe&e5Aum	82:1	:SF71	:SF28	:SF-8	:SF7		I I b
pe&e5Aum	00:2	:SF78	:SF78	SF0	SF5S1	64 2F46	I I b
pe&e5Aum	08:2	:SF41	SF78	SF12	SF5S7	1461F6-	I I b
pAqn5	28:1	:SF7S	:SF20	:SF24	:SF20		I I b
pAger	1S0:1	SF5S2	SF5S2	SF5S1	SF5S2	48F8S	I I b
pAger	1S :1	SF5S1	SF5S1	SF5S1	SF5S1	14F5S4	I I b
pnOAum	27:2	:14F-8	10F-1	:14F6-	:7F S		I I b
p&n5&Aum	86:1	:SF5S4	SF5S7	SF17	SF5S4	21 F84	I I b
p&n5&Aum	88:1	SF5S2	SF5S2	SF5S-	SF5S7	02F	I I b
pu&ur	74:1	:2 61F60	:2678F1-	:2448F5S7	:2682F62		I I b
i erbAum	1- :1				1S8		E
i erbAum	1- :2				2		E
i %sPAum	2S7:1	SF5S4	SF5S2	SF5S-	SF5S4	78F12	I I b
i %sPAum	2S-:1	SF5S2	SF5S7	SF5S7	SF5S7	14F2S	I I b
i A5	118:1	:SF5S7	SF5SS	SF5SS	:SF5S1		I I b
i A&5Aum	40:1	SF5SS	SF5S1	:SF5S	:SF5S2		I I b
Rrs5Aum	278:1	SF5SS	SF5SS	SF5SS	SF5SS	2 1F64	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1- 7 7BL	D5w&um5e&Nsme9J	3 8
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129l0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	- 1:2	:SF5S2	SF5S1	SF5S2	SF5S1	266F20	l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S6		E
Y&&Aum	8 :2				8		E
ZA5q	66:2	SF5	SF17	SF20	SF16	- F4S	l l b
ZAqn5Aum	S:1	SF5S1	SF5SS	SF5SS	SF5SS	160F2	l l b
ZAqn5Aum	1:1	:SF5S1	:SF5S2	SF5S1	SF5SS		l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J10a22a-	t w&WJA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c 8mb A5Amb	2092	77F6-	72FNS	7NF0N	7-FSN	F22	l l e
c 5&b n5h	12191	7F4S	2F 7	7F10	7F10	0F71	l l e
cpl r 5Aq	0-92	1F07	1F0N	1FN2	1F0N	2F64	l l e
BwpAmb	17-91	10F4S	1-F40	16F-N	16F4N	-FNN	l l e
BwpAmb	17091	10F14	1-F42	1-FN2	16F17	-F-N	l l e
Br ph8Amb	91	1F0-	1F64	1F-4	1F64	6F47	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S4		E
Bpmb A5r	N191						qll
CwOb Amb	1SN91	1F40	1F7	1FN1	1F-6	14F4	l l e
CwOb Amb	1S691	97FS-	94FS6	97F76	97F4		l l e
CwOb Amb	11191	1FN	1F6S	1F6S	1F0S	F6-	l l e
Cw&pAmb	4791	N11F0	04NF-N	0SNFS6	0-6F20	6F 1	l l e
Cw&pAmb	4491	N7SF77	077F04	02SF6N	061F-N	0FN6	l l e
Cwpen5	1291						qll
Cwpen5	1292						qll
C%8np5r	7-91						qll
C%8np5r	7-92						qll
C%pmb Amb	-292	7F72	7F7N	7F2N	7F77	1F-	l l e
Cnew&&	- 92	1F04	1F02	1F00	1F04	1F7	l l e
CnI l r p	6792	7F64	7F66	7F0S	7F60	SFN7	l l e
t hl l pnl Amb	1-691						qll
t hl l pnl Amb	1-692						qll
. peAmb	16491						qll
. peAmb	16492						qll
GwOn8&5Amb	16S91						qll
GwOn8&5Amb	16S92						qll
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S7		E
D5OAmb	11-91				1S1		E
D5OAmb	11-92				N		E
Dpn5	-492	776F--	7-4F66	740FNS	746F74	2F64	l l e
Dpn5	-692	741F60	746F1S	74 F27	74-F60	1F1S	l l e
Dpn5	-092	74-F61	77NF1S	74-F-N	747F1S	1F26	l l e
Kphl 8a5	N791						qll
LrwO	2S691	1F04	1F-4	1F44	1F-N	F-7	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J10a22a-	t w&wUA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-7	1F-1	1F-0	4F N	l l e
Lr wO	2SN91	1F6N	1F-7	1F4	1F-0	6F40	l l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N6NF42	N61F0S	N00FS	N6 FS0	SFN	l l e
y w5Mw5r l r	- - 92	1FN6	1F0S	1F S	1FN2	- F60	l l e
y n8neOr 5mb	491	F6-	NF 6	NF16	NF 7	NF7-	l l e
y n8neOr 5mb	- 91	NFS1	0F-0	6F 4	0F-S	0F10	l l e
y n8neOr 5mb	691	NF7	0F40	0F-6	0FN1	6F4	l l e
y n8neOr 5mb	091	NF61	0F64	0F62	0F 6	0FSN	l l e
y n8neOr 5mb	N91	NF1S	0F66	0FS1	0F-	0F24	l l e
u r nOnb Amb	1- S91						q l l
u r nOnb Amb	1- S92						q l l
u Aqkr 8	6S92	1F66	1F0	1FN6	1F00	- F06	l l e
3 %nl l %npm	7192	966F42	94 F- -	904F71	967F47		l l e
3 n&wl Amb	7 92	0NSF6S	0 4F12	N2SF67	0 NF4-	2F- -	l l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S7		E
: qw5OAmb	4- 91				N		E
: qw5OAmb	4- 92				4		E
: r 8 5Amb	N291	F-2	FSN	0F00	NF0	1SF70	l l e
: r 8 5Amb	0092	NF 7	6F4N	1SF 4	NF0N	2- F41	l l e
: r 8 5Amb	0N92	0F01	FS2	- F2N	0F74	2- F S	l l e
: A8Aqn5	2N91	1F7-	SFN7	SF0-	SF N	77F20	l l e
: A8gr p	1S091	1F02	1F-	1F60	1F66	4FS7	l l e
: A8gr p	1S 91	1F04	1F-4	1F62	1F64	6F22	l l e
: nOAmb	2792	N2- FN6	N1NF76	N70F14	N20F12	1F14	l l e
: 8pn5&Amb	N691	1F02	1F62	1F6	1F60	7FS-	l l e
: 8pn5&Amb	NN91	1F04	1F60	1F-7	1F6-	6F61	l l e
: m8mp	7491	9126SF42	92120F2	92774F6S	91 S0F44		l l e
i r peAmb	1- 91				1S7		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F6	1F-1	1F-6	1F-	- FN	l l e
i %w8Amb	2S- 91	1F6-	1F4N	1F4N	1F-4	6F77	l l e
i A5	11N91	SFS	SFSS	9SFS7	SFS2	740F1	l l e
i A&w5Amb	4091	NF 2	0F67	0F-S	NFS2	F0N	l l e
Rpw5Amb	27N91	1F-N	1F46	1F42	1F4N	- F4N	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpla	LB1264S0	o l r pw8apla	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 7	t A8m8A5JJwq8apla	1
t w&JTJ A8 r Jc qdmA8r Qla	2S279S0912J10a22a-	t w&WJA8 Ju wb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF6S	NF-4	NFN7	NF66	1F00	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91						E
Y8&pAmb	N 92				N		E
ZA5q	6692	NF61	NFN1	NF06	NF02	1F1N	l l e
ZAqn5Amb	S91	1F64	1F4N	1F-6	1F-6	-FS0	l l e
ZAqn5Amb	191	1F60	1F-	1F-S	1F-0	-F6S	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fldl

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
AlNu ioiNu	20 2	215n6U6-	2S542U-1	21- n7U7n	2110nU27	2U65	ppm
Aotiu Oo%	121 1	SU7-	SU01	SU60	SU04	11U51	ppm
Aesboic	05 2	10U51	10U50	17U-5	10U71	2U61	ppm
BaeiNu	1- 5 1	- 4nUS1	- 2SUn5	- S7U10	- 26US4	6U41	ppm
BaeiNu	1- 0 1	- 5- U-4	- 2SU02	- 11US4	- 27U-0	6U05	ppm
Bbe%liNu	n 1	2US6	1Un0	1U74	1Un6	5U6S	ppm
Bisu NtE	2Sn 1				1S-		G
Bisu NtE	2Sn 2				1S0		G
BeOu iob	71 1						cps
v adu iNu	1S7 1	1U2S	1U17	1U14	1U10	2U72	ppm
v adu iNu	1S6 1	SU14	- U22	- U24	2U2S		ppm
v adu iNu	111 1	1U-1	1US5	1USS	1U12	15U17	ppm
v alciNu	4- 1	- 2612U50	2n- 07USS	277- - US-	- S204U54	6U05	ppm
v alciNu	44 1	- - 66nU45	2nn57U-1	2n1n0U10	- Sn41U65	0U0-	ppm
v aemOo	12 1						cps
v aemOo	12 2						cps
v ElOeiob	- 5 1						cps
v ElOeiob	- 5 2						cps
v EeOu iNu	52 2	26U77	26US5	26U57	26U5S	1U5n	ppm
v Omalt	5n 2	15U1S	14U64	15U06	15U10	- U02	ppm
v Oppbe	6- 2	- nU55	- 7US2	4SUn5	- nU51	- U0S	ppm
D%speOsiNu	156 1						cps
D%speOsiNu	156 2						cps
. emiNu	164 1						cps
. emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
h Olu iNu	165 1				1S5		G
h Olu iNu	165 2				1S5		G
IodiNu	115 1				1S-		G
IodiNu	115 2				1SS		G
IeOo	54 2	46- 71U-7	4515nU6n	40S00US2	462S6US-	2U1S	ppm
IeOo	56 2	45502U25	440S6U2n	46055U42	45600Unn	2U25	ppm
IeOo	50 2	46650U56	444S0Un6	406n0U16	46254U2-	- U6-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	6- U6-	50U1-	5- U00	57U17	7U61	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fud

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
Lbad	2S0 1	6SU4-	54U46	52U1n	55U6n	0U64	ppm
Lbad	2S7 1	61U57	55U7S	5- U14	56U74	0U5n	ppm
LitEiNu	6 1				nn		G
y aMobsiNu	24 2	1- S- 4U05	12222U-n	12n64U25	1204SU46	- U5-	ppm
y aoMaobsb	55 2	n1nUhn	nS4U64	n40U27	n2- Uh0	2U-4	ppm
y Ol%mdboNu	n4 1	7US1	0U1S	0U-S	0U40	6U44	ppm
y Ol%mdboNu	n5 1	2U21	2U11	2US4	2U12	- Uh1	ppm
y Ol%mdboNu	n6 1	2U71	2U44	2U61	2U62	0U10	ppm
y Ol%mdboNu	n0 1	2U1S	1Uhn	2U14	2US0	- U67	ppm
y Ol%mdboNu	n7 1	2U-0	1U7n	1Uh5	2US0	12U04	ppm
8 bOd%u iNu	15S 1						cps
8 bOd%u iNu	15S 2						cps
8 ickbl	6S 2	- nUS1	- 7U44	4SUhS	- nU45	- U20	ppm
PEOspEOeNs	- 1 2	1n16U47	1015U62	1752U1S	1727US0	5U61	ppm
POtassiNu	- n 2	6- 06U67	6122US0	6467US4	6- 22U26	2U74	ppm
CEOdiNu	1S- 1				1S1		G
CEOdiNu	1S- 2				1S4		G
r caodiNu	45 1				1S1		G
r caodiNu	45 2				n7		G
r blboiNu	72 1	1Uh6	2U21	1Uh4	2US4	0U-0	ppm
r blboiNu	00 2	- 7US1	47US7	45U1-	4- U04	11U74	ppm
r blboiNu	07 2	7U04	7U60	1SU70	nU4-	1- U2n	ppm
r ilicOo	27 1	2S- U44	17- U-n	171Uhn	17nU61	6U-	ppm
r ilgbe	1S0 1	SU-6	SU-1	SU27	SU-2	12U05	ppm
r ilgbe	1Sn 1	SU-0	SU-1	SU27	SU-2	14U60	ppm
r OdiNu	2- 2	161U17	147U-n	156U12	155U2-	4U15	ppm
r teOotiNu	76 1	1- 2U16	117U6-	115U-S	122US-	0U-2	ppm
r teOotiNu	77 1	1- 4U14	124U70	117U-n	125U7S	6U2n	ppm
r NfNe	- 4 1	2U77	1S6- U75	1152U47	0- nU04		ppm
TbemiNu	15n 1				1S5		G
TbemiNu	15n 2				1S5		G
TEalliNu	2S- 1	SU6S	SU56	SU4n	SU55	1SU4-	ppm
TEalliNu	2S5 1	SU57	SU5-	SU5S	SU54	0U05	ppm
Tio	117 1	1Uh4	1U65	1U65	1U04	nU50	ppm
TitaoiNu	40 1	1- 0U7n	122U56	12SU5n	120US1	0U45	ppm
ReaoiNu	2- 7 1	2U54	2U-	2U24	2U-0	6U46	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fldl

Paeau btbe	y ass	v CoCbp1	v CoCbp2	v CoCbp-	AgMJv CocU	v CocCr D	Roits
VaoadiNu	51 2	60U65	65U-	60U07	66Ul2	2US6	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				1S0		G
YtteiNu	7n 2				11-		G
Zioc	66 2	250U44	247U6-	262U5S	256U1n	2U04	ppm
ZiecCoiNu	nS 1	- U64	- U12	- US7	- U27	nU45	ppm
ZiecCoiNu	n1 1	- U-0	- U17	- US6	- U2S	4U70	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAm	20 2	2S4- 0U57	22524U60	21466U6J	216S5U00	JU07	l l b
cn&mon%	121 1	SU64	SU01	SU6S	SU6J	7U7J	l l b
crwenAq	0J 2	10U-6	2SU-1	17U47	17U02	0U5J	l l b
BsrAm	1- J 1	- SJU52	- 15U5J	- S7U40	- 11U4J	2U4S	l l b
BsrAm	1- 0 1	- S5U51	- 2JU22	- SJU4-	- 1- UJ2	- U1	l l b
Ber%RAm	5 1	1U74	1U72	1U71	1U72	SU54	l l b
BAmu&E	2S5 1				1S0		G
BAmu&E	2S5 2				1SJ		G
BromAe	71 1						ql w
v sOmAm	1S7 1	SU57	1U-1	1U2J	1U17	1JU12	l l b
v sOmAm	1S6 1	2U75	SU25	4UJ5	2U4S		l l b
v sOmAm	111 1	1US-	1US7	1US-	1USJ	2U07	l l b
v sRqAm	4- 1	27140U27	25677U76	26547U26	27261U40	4U76	l l b
v sRqAm	44 1	254JSU-7	- S02SU0-	27J- SUSS	25J60US4	- U02	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	- J 1						ql w
v ERrAe	- J 2						ql w
v EromAm	J2 2	2JU-5	27U77	20U60	20U-1	6U45	l l b
v obsR&	J5 2	14U71	16UJS	1JU6-	1JU6J	JU-5	l l b
v ol l er	6- 2	- 7U44	42UJ0	41USS0	4SU65	JU1J	l l b
t %w l rowAm	1J6 1						ql w
t %w l rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
h oRmAm	16J 1				1S5		G
h oRmAm	16J 2				1SJ		G
DnOAm	11J 1				1S7		G
DnOAm	11J 2				55		G
Don	J4 2	4J042U45	JS11SU46	47- 51U25	47S71U41	4UJ7	l l b
Don	J6 2	4- 50JU61	45J52U1J	46616U-6	46027US4	6US1	l l b
Don	J0 2	4450- USS	457- - U60	4025JU1-	40- 60U20	JU1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J6U7-	J6U1J	JJU--	J6U11	1U-4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
LesO	2S0 1	J-U65	J2U77	J1U51	J2U72	1U65	l l b
LesO	2S7 1	J4U56	J4U55	J-UJ2	J4U45	1UJJ	l l b
LAEAum	6 1				1S2		G
y sMnewAum	24 2	12S0-U5S	1-2-JU21	12652UJ2	12660U14	4UJ5	l l b
y snMsnewe	JJ 2	775U7S	1SS5U21	546U01	547UJ7	6UJS	l l b
y oP%bOenum	54 1	0U14	0US0	6U5-	0USJ	1U47	l l b
y oP%bOenum	5J 1	1U76	1U77	1U50	1U5S	-US7	l l b
y oP%bOenum	56 1	2U42	2U47	2UJ5	2UJS	-UJ-	l l b
y oP%bOenum	50 1	2US-	1U5-	1U07	1U51	6UJ1	l l b
y oP%bOenum	57 1	1U5S	2USJ	1U5-	1U56	4US4	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	-7U6-	4-U10	41UJ-	41U11	JUJ5	l l b
8EowI Eoruw	-1 2	1661U5J	17S4U76	17-5U5-	1067U51	JUJ-	l l b
8o&swwAum	-5 2	J50JUJ2	60SJU05	6467U2S	6-7-U1S	JU74	l l b
CEoOAum	1S- 1				1S4		G
CEoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				50		G
pe?enAum	72 1	1UJ-	2U02	1UJ0	1U70	-5UJS	l l b
pe?enAum	00 2	-1U02	47US6	42U64	4SU71	2SUJ5	l l b
pe?enAum	07 2	0UJ4	5UJ5	7U64	7UJ2	1SU75	l l b
pAqon	27 1	171U7S	151U5-	101U4S	171U01	JU6J	l l b
pA?ger	1S0 1	SUJ2	SUJ-	SU20	SUJ1	5UJ4	l l b
pA?ger	1S5 1	SUJ2	SUJ-	SUJS	SUJ1	4U67	l l b
poOAum	2- 2	140U5S	165U42	1J0US6	1J7U1-	6U7-	l l b
p&onAum	76 1	114UJ2	11JUS7	112UJJ	114USJ	1U10	l l b
p&onAum	77 1	12SU40	12-U1S	110U5S	12SU45	2U16	l l b
pu?ur	-4 1	12S6U40	7SJU67	16-1U04	1214U6-		l l b
i erbAum	1J5 1				1S5		G
i erbAum	1J5 2				1SJ		G
i EsPAum	2S- 1	SUJ6	SUJ2	SUJS	SUJ-	6U11	l l b
i EsPAum	2SJ 1	SUJ-	SUJ1	SUJ-	SUJ2	2U71	l l b
i A	117 1	1UJ7	1U6J	1U66	1U6-	2U7J	l l b
i A&snAum	40 1	117U22	124U45	11-U76	117U76	4UJS	l l b
RrsnAum	2-7 1	2UJ-	2UJ7	2UJS	2UJ4	1U06	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJv onqU	v onqCpt	RnA&w
VsnsOAum	J1 2	64U72	01U51	67UJ0	67U4-	JU15	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				11-		G
Y&&Aum	75 2				1S5		G
ZAnq	66 2	2JSUJS	207US2	26JUJ-	264U67	JU21	l l b
ZAqonAum	5S 1	- US7	- U11	- USS	- US6	1U5J	l l b
ZAqonAum	51 1	- US2	- USJ	- USS	- US2	SU0S	l l b

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Rent:SsmpRe:ID:J	H 9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
ARminium	23X2	R6 U4	- 616U1R	422RU33	46O- U33	26U43	ppb
Antimony	121X1	OU13	OU1	OU1	OU1	3U16	ppb
Arwenic	3 X2	U24	- U21	4UO3	4U10	24U0	ppb
Bsrium	1- X1	RU4O	6OU06	6 U2R	61U0	4UR6	ppb
Bsrium	1- 3X1	RU20	6 UOO	64U 2	62UR6	UOO	ppb
BeryRium	RX1	OU	OU3	OU4O	OU3	3U24	ppb
Biwmuth	2ORX1				1OR		%
Biwmuth	2ORX2				1O-		%
Bromine	01X1						cpw
v sdmium	1O0X1	OUOO	OU46	OUOR	OU21	1OOUR2	ppb
v sdmium	1O6X1	X4U -	X2U30	X4U21	X UO4		ppb
v sdmium	111X1	OU10	OU1	OU13	OU13	3U6	ppb
v sRium	4- X1	226UO3	342U44	33 U6R	01U63	U 1	ppb
v sRium	44X1	0- U4-	R62U22	6124U12	00RUR2	4U31	ppb
v srbon	12X1						cpw
v srbon	12X2						cpw
v hRorine	- X1						cpw
v hRorine	- X2						cpw
v hromium	2X2	3U4	4U1	U 1	U32	26U3O	ppb
v obsRR	RX2	4UO	2U6O	- U13	- U6	2 U3-	ppb
v opper	6- X2	11U 1	6URO	0U2-	0UO0	26U33	ppb
Dywprowium	1 6X1						cpw
Dywprowium	1 6X2						cpw
Frbium	164X1						cpw
Frbium	164X2						cpw
GsdoRnium	16OX1						cpw
GsdoRnium	16OX2						cpw
9 oRnium	16 X1				1OR		%
9 oRnium	16 X2				1O2		%
Indium	11 X1				1O		%
Indium	11 X2				R0		%
Iron	4X2	12264UO1	3- 22U01	03- 2U02	R4- RU00	26UR6	ppb
Iron	6X2	12064U14	3001UO	R166U1O	RR3OU 1	2 UR	ppb
Iron	3X2	12OO6U	32R- UR2	0611UR0	R- O4UOR	26U1-	ppb
Krypton	0- X1						cpw
Lesd	2O6X1	1OUO3	1OU02	1OUR6	1OU62	4U43	ppb

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpPe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Pent:SsmpPe:ID:J	H 9 O. 60L	DiPation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iPe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Lesd	2O3X1	RU3-	1OU2	1OU2R	1OU10	- URO	ppb
Lesd	2O0X1	RURO	1OU63	1OU32	1OU4	4UO	ppb
Lithium	6X1				RR		%
HsMhewium	24X2	- - 3- U23	2O1RU4-	242RU30	26O3UO	26U62	ppb
HsnMsnewe	X2	26OU 1	16OU4R	1R1U02	2O4U23	2 UO	ppb
HoPybdenum	R4X1	1U2	1U 2	1U43	1U41	1OU2R	ppb
HoPybdenum	R X1	OUJ O	OU4O	OUJ0	OUJ6	14U01	ppb
HoPybdenum	R6X1	OU4R	OU43	OU 4	OU O	3U31	ppb
HoPybdenum	R3X1	OU4O	OUJ4	OU 2	OU42	21U01	ppb
HoPybdenum	R0X1	OUJ3	OU4-	OU42	OU41	0U2O	ppb
Neodymium	1 OX1						cpw
Neodymium	1 OX2						cpw
NickeP	6OX2	11U3-	3U02	0U46	RU03	26U6O	ppb
8howphoruw	- 1X2	1 U3	214U -	- 20UJ6	- 2U00	4- U1O	ppb
8otswwium	- RX2	1012U4	1O10UJ0	126 U23	1- 6 UJ3	2RU36	ppb
Ehodium	1O- X1				1O6		%
Ehodium	1O- X2				1O1		%
Scsndium	4 X1				1O6		%
Scsndium	4 X2				R-		%
SePenium	02X1	OU0R	OU24	XOU0	OU0R	1 2U30	ppb
SePenium	33X2	0U36	0U66	3U 0	0UJ4	3U0	ppb
SePenium	30X2	- U04	1U 1	2U13	2U 1	43U04	ppb
SiPcon	20X1	- 2URO	- 6U03	- 6U66	- U2-	U64	ppb
SiPger	1O3X1	OU06	OU0	OU0	OU06	0U43	ppb
SiPger	1ORX1	OU03	OU00	OU00	OU00	0U31	ppb
Sodium	2- X2	2U01	X U33	1 U23	2OU33	142U0R	ppb
Strontium	06X1	21U01	2- U03	24U11	2- U26	U4-	ppb
Strontium	00X1	21URO	2- U32	24U33	2- U4R	URR	ppb
SuPur	- 4X1	X246OU0	X1R13UJ O	X1RORU0-	X2OR U46		ppb
Terbium	1 RX1				1O0		%
Terbium	1 RX2				1O-		%
ThsPrum	2O- X1	OU12	OU12	OU12	OU12	1UJ0	ppb
ThsPrum	2O X1	OU0R	OU1O	OU11	OU1O	RU6	ppb
Tin	110X1	OU26	OU20	OU2O	OU2	10U10	ppb
Titsnium	43X1	22U26	2- U21	24U12	2- U2O	4U0O	ppb
Crsnium	2- 0X1	OU42	OU46	OU46	OU4	U06	ppb

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Rent:SsmpRe:ID:J	H 9 O 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Vsnsdium	1X2	10U32	11U3	1- U6R	14U66	2 UD	ppb
Ytterbium	132X1						cpw
Ytterbium	132X2						cpw
Ytterbium	136X1						cpw
Ytterbium	136X2						cpw
Yttrium	0RX1				1O3		%
Yttrium	0RX2				RR		%
Zinc	66X2	34U64	44U3	1U10	6U06	23U63	ppb
Zirconium	ROX1	OU 0	OU6-	OU63	OU6-	3U06	ppb
Zirconium	R1X1	OU R	OU61	OU61	OU61	1U03	ppb

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	RnA&w
cRmAAm	20 2	2- S- 0U46	2- 11SU15	2- - J1U4J	2- 166U0	SU01	l l b
cn&mon%	121 1	17U4J	17U62	17U2S	17U42	1U14	l l b
crwenAq	0J 2	2JUJ-	2JU42	2JU6-	2JUJ-	SU42	l l b
BsrAm	1- J 1	016US6	0S5U6	010UJ1	014U1	SU61	l l b
BsrAm	1- 0 1	001U72	060U40	065U75	065U0-	SU27	l l b
Ber%RAm	5 1	12UJ6	12US5	11U70	12U10	2U75	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1SJ		G
BromAne	71 1						ql w
v sOmAm	1S7 1	5U21	5U2S	5U67	5U0	2U52	l l b
v sOmAm	1S6 1	7UJ4	7U7	0U42	7U11	0U44	l l b
v sOmAm	111 1	11US4	1SU02	11U42	11US6	- U17	l l b
v sRqAm	4- 1	27774U72	2752- U74	27727UJ7	27705US7	SU10	l l b
v sRqAm	44 1	250J6U4	2576- U47	25J4JU14	25021U66	SUJ4	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	- J 1						ql w
v ERrAne	- J 2						ql w
v EromAm	J2 2	01U4-	65U5	01U05	0SU70	1U7-	l l b
v obsR&	J5 2	122U4-	122U64	12- UJ-	122U70	SU47	l l b
v ol l er	6- 2	5- U56	54U0	5JU2S	54UJ1	SU60	l l b
t %wl rowAm	1J6 1						ql w
t %wl rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
hoRmAm	16J 1				1S7		G
hoRmAm	16J 2				1S6		G
DrOAm	11J 1				1SJ		G
DrOAm	11J 2				55		G
Don	J4 2	4722- U77	40J24U54	4052- UJ4	4075SU05	SU0-	l l b
Don	J6 2	40J- 6U0-	401- JU6	47S70U40	40J76UJ2	1USS	l l b
Don	J0 2	47727U2-	47S61U6J	45S0SUS2	476J- US	1US7	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J0U65	J7U61	J7U60	J7U2	SU54	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	JJU0S	JJU45	J6U10	JJU05	SU6-	I I b
LesO	2S7 1	J0U54	J0U45	J0U66	J0U65	SU4S	I I b
LA&EAum	6 1				55		G
y sMnewAum	24 2	1270SU51	120J7U05	12540UJ0	127J5US-	SU04	I I b
y snMsnewe	JJ 2	1SJ0US0	1S45U45	1S01UJJ	1SJ5UJ0	1US6	I I b
y oP%bOenum	54 1	0U26	0US7	0U45	0U27	2U77	I I b
y oP%bOenum	5J 1	1U51	1U04	1U7-	1U7-	4U60	I I b
y oP%bOenum	56 1	2U46	2UJ6	2U6J	2UJJ	- U02	I I b
y oP%bOenum	50 1	2US4	1U70	1U57	1U56	4U62	I I b
y oP%bOenum	57 1	2US0	1U77	2USS	1U57	4U77	I I b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1J7U76	1J4UJ4	1J7U46	1J0U22	1UJ5	I I b
8 EowI Eoruw	- 1 2	1671U0-	175SUJS	17SSU42	105SU72	JU74	I I b
8 o&swwAum	- 5 2	661SU47	6452U0-	67S2U10	66- JU12	2UJJ	I I b
CEoOAum	1S- 1				1S-		G
CEoOAum	1S- 2				1SJ		G
pqsnOAum	4J 1				1SJ		G
pqsnOAum	4J 2				57		G
pe&enAum	72 1	21U4-	15UJJ	21U41	2SU7S	JU17	I I b
pe&enAum	00 2	6SU61	6- U77	J7U55	61U16	4US7	I I b
pe&enAum	07 2	24U01	24U07	27U66	26USJ	7U0S	I I b
pAqon	27 1	174UJ4	171U12	17JU24	17- U6-	1U2S	I I b
pAger	1S0 1	7U6S	7UJ5	7UJ-	7U44	1U66	I I b
pAger	1S5 1	7U6S	7UJJ	7UJ6	7UJ1	1UJS	I I b
poOAum	2- 2	22- UJ-	227U05	2- 2UJ7	227U2-	1U5J	I I b
p&on&Aum	76 1	12SU17	116UJJ	11JU6J	110U46	2US4	I I b
p&on&Aum	77 1	126U25	12- UJ1	12JU05	12JU1-	1U20	I I b
pulPur	- 4 1	0SSU70	065UJS	656US6	022US7		I I b
i erbAum	1J5 1				1S7		G
i erbAum	1J5 2				1S4		G
i EsPAum	2S- 1	7U5-	5US4	5U1-	5US-	1US7	I I b
i EsPAum	2SJ 1	5US1	5USJ	5US5	5USJ	SU44	I I b
i An	117 1	2U40	2U4J	2U46	2U46	SUJ-	I I b
i A&snAum	40 1	111U15	1SJU54	1S4U42	1S0U17	- UJ1	I I b
RrsnAum	2- 7 1	2UJ1	2U24	2U25	2U27	1U65	I I b

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LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ane:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJ:v onqU	v onqCpt	Rn&w
VsnsOAum	J1 2	105US0	10JUJJ	107U7-	100U72	1U11	I I b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	- 74U57	- 52U55	4S2USS	- 5- U2	2U10	I I b
ZAqonAum	5S 1	- U27	- U12	- U16	- U17	2U0J	I I b
ZAqonAum	51 1	- U1S	- U27	- U17	- U15	2U52	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&or9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&n&psml Re9D 9J9	y h SF: 0	t Ra&on9Fsq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J. S	t s&sFAe9Nsme9J	S55cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
cRmAnAm	20 2	156: 6U66	17254U5S	154: 2U7:	151-4U7S	-U74	l l b
cn&mon%	121 1	SU70	SU7S	SU72	SU7-	4U41	l l b
crwenAq	0: 2	-2US:	25U-4	-SU47	-SU65	4U12	l l b
BsrAm	1-: 1	4-4U60	422US5	41SU17	422U-1	2U5S	l l b
BsrAm	1-0 1	4-1U:	426U1-	4S6U0:	421U40	-US5	l l b
Ber%RAm	5 1	1U52	1U5-	1U07	1U70	4U-	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1S5		G
BromAne	71 1						ql w
v sOmAm	1S7 1	1U5S	1U55	1U-2	1U7S	1-U5:	l l b
v sOmAm	1S6 1	1US5	SU6:	1US2	SU52		l l b
v sOmAm	111 1	1U10	1US6	1US0	1U1S	:U2S	l l b
v sRqAm	4- 1	14S07U7-	141SSU57	1-52SU6S	14S--U40	SU0S	l l b
v sRqAm	44 1	1: S6: U6S	14716U07	147S-U52	1475: U4-	SU55	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	-: 1						ql w
v ERrAne	-: 2						ql w
v EromAm	: 2 2	-7U1S	-:U0	-6U1S	-6U2	-U76	l l b
v obsR&	: 5 2	20U21	24U55	26U42	26U21	4U27	l l b
v ol l er	6- 2	:6U24	:1U5S	: : U1:	:4U4-	4U1:	l l b
t %w l rowAm	1: 6 1						ql w
t %w l rowAm	1: 6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRnAm	16S 1						ql w
HsOoRnAm	16S 2						ql w
hoRnAm	16: 1				1S0		G
hoRnAm	16: 2				1S7		G
DnOAm	11: 1				1S0		G
DnOAm	11: 2				1S2		G
Don	: 4 2	:4471US2	:1624U67	:4S: : U42	: - -70US4	2U75	l l b
Don	: 6 2	: : 247U50	:S6S: US2	: -670U04	: -17SU7	4U44	l l b
Don	: 0 2	: : 541U-2	:1620U7S	: : 1-7U1S	:42-:U04	4U2-	l l b
Kr%&on	7- 1						ql w
LesO	2S6 1	6SU-	61U-0	:5U07	6SU6-	1U47	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 I ers&or9J	aswl sP
Lsb9psmI Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&n&psmI Re9D 9J9	y h SF: 0	t Ra&on9Fsq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I0J-0J S	t s&sFAe9Nsme9J	S55cC. FUO

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
LesO	2S0 1	: 7U27	: 7U-6	: 0US2	: 0U77	1U-S	I I b
LesO	2S7 1	: 5U61	: 5U61	: 7U-0	: 5U15	1U21	I I b
LA&EAum	6 1				55		G
y sMnewAum	24 2	7661US4	0752U-2	7- 51U6	7- 1: US4	4U65	I I b
y snMsnewe	: : 2	2: 26USS	2- S- U27	24: 1U21	2426U7-	4U60	I I b
y oP%bOenum	54 1	1SU64	1SU57	1SU0:	1SU05	1U-5	I I b
y oP%bOenum	5: 1	2U22	2U27	2U-1	2U20	1U55	I I b
y oP%bOenum	56 1	- U10	- U25	- U2S	- U22	1U5S	I I b
y oP%bOenum	50 1	2U21	2U42	2U22	2U27	: U17	I I b
y oP%bOenum	57 1	2U2-	2U26	2U10	2U22	1U55	I I b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	6: U52	62USS	6: U26	64U-5	- U26	I I b
8 EowI Eoruw	- 1 2	141SU01	1- - 6U42	1: 01U14	14- 5U4-	7U-	I I b
8 o&swwAum	- 5 2	4105U-1	4S- 0U7:	4147US-	4121U0-	1U7S	I I b
CEoOAum	1S- 1				1S:		G
CEoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S0		G
pqsnOAum	4: 2				1SS		G
pe&nAum	72 1	- U61	- U4-	- U-6	- U-	2U-2	I I b
pe&nAum	00 2	- 0US5	- : U70	46U44	- 5U7S	14U-4	I I b
pe&nAum	07 2	11US7	5U2-	11U4-	1SU-7	11U10	I I b
pAqon	27 1	10SUS7	102U-5	166U-S	165U-5	1U71	I I b
pAger	1S0 1	SU20	SU26	SU26	SU26	2U6S	I I b
pAger	1S5 1	SU27	SU-S	SU24	SU20	11U64	I I b
poOAum	2- 2	1162U67	1S61U-2	112: U21	1116U40	4U-7	I I b
p&on&Aum	76 1	116U-7	11- U55	112U54	114U44	1U-4	I I b
p&on&Aum	77 1	121U6-	115U-4	12SUS4	12SU4S	SU51	I I b
pu&ur	- 4 1	00U46	14- U-	- : 5U65	141U52		I I b
i erbAum	1: 5 1				1S5		G
i erbAum	1: 5 2				1S0		G
i EsPAum	2S- 1	SU47	SU46	SU44	SU46	- U6S	I I b
i EsPAum	2S: 1	SU47	SU46	SU4:	SU46	- U:	I I b
i A	117 1	2U-:	2U22	2U21	2U26	- U40	I I b
i A&snAum	40 1	02U-S	0- U00	01U52	02U0-	1U-S	I I b
RrsnAum	2- 7 1	- U12	- U1:	- US2	- U1S	2U16	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Ae na&psml Re9D 9J9	y h SF: 0	t Ae a&on9Fsqa&br9J	1
t sa&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J. S	t sa&sFAe9Nsme9J	S55c C. FU0

8srsmea&er	y swv	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
VsnsOAum	: 1 2	70U04	7SU2:	74U S	74U16	4U46	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	212U56	156U0S	2S2U52	2S-U75	-U05	l l b
ZAqonAum	5S 1	: U7	: U2:	: U27	: U S	1U2	l l b
ZAqonAum	51 1	: U2:	: US-	: U S	: U15	2U04	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	1y411.2h	16177.4-	1yy46.76	1y01y.y2	2.64	ppm
Aotiu Oo%	121 1	S.7y	S.70	S.hS	S.70	2.60	ppm
Aesboic	0y 2	22.y-	22.hS	2- .S2	22.72	1.12	ppm
BaeiNu	1- y 1	24y.11	247.02	262.67	2y2.10	- .67	ppm
BaeiNu	1- 0 1	2y1.- 2	24h.h1	266.y0	2yy.h-	- .61	ppm
Bbe%liNu	h 1	1.yS	1.y6	1.40	1.y1	- .Sy	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1S-		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.- -	2.71	1.h0	2.- 0	10.0y	ppm
Uadu iNu	1S6 1	1.- 7	- .24	1.60	2.1S		ppm
Uadu iNu	111 1	1.76	1.0y	2.S6	1.7h	7.2h	ppm
UalciNu	4- 1	1- 601.7y	1- yh2.74	14SS4.y4	1- 0y6.41	1.yh	ppm
UalciNu	44 1	144S7.6y	14111.h2	14024.47	1441y.S2	2.1-	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	26.y0	27.S6	26.hS	20.17	2.77	ppm
UOmalt	yh 2	12.46	1- .1-	12.27	12.62	- .y7	ppm
UOppbe	6- 2	- h.22	41.46	4S.2h	4S.- 2	2.07	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1S4		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	- 0h17.h2	4S620.S6	- 0- - 2.0y	- 7626.24	4.yy	ppm
IeOo	y6 2	- 76h- .2y	- h0Sh.40	- 0y20.y0	- 764- .4-	2.7-	ppm
IeOo	y0 2	- yyS2.- 0	- 0y2y.4y	- y4- - .22	- 61y- .67	- .2h	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	67.60	67.7y	6h.02	6h.S7	S.71	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	6y.- 7	64.46	60.14	6y.66	2.S0	ppm
Lbad	2S7 1	66.- -	66.07	67.01	60.20	1.77	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	6SSS.4-	64S2.72	6162.74	6177.0S	- .20	ppm
g aovaobsb	yy 2	62- .hy	64h.2h	622.y2	6- 1.h2	2.- 7	ppm
g Ol%mdboNu	h4 1	0.yh	0.66	7.12	0.0h	- .6h	ppm
g Ol%mdboNu	hy 1	2.S2	1.hS	2.14	2.S2	y.7-	ppm
g Ol%mdboNu	h6 1	2.6y	2.y2	2.72	2.60	y.6-	ppm
g Ol%mdboNu	h0 1	2.S7	2.Sh	2.S0	2.S7	S.- 6	ppm
g Ol%mdboNu	h7 1	2.S6	2.S1	2.S6	2.S4	1.yy	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	2h.76	- 1.0h	- S.- 0	- S.60	- .2y	ppm
PEOspEOeNs	- 1 2	- - 22.1S	- - - 2.02	- 2SS.6S	- 27y.14	2.2-	ppm
POtassiNu	- h 2	647y.14	6hh6.- S	6y70.- y	667h.6S	4.S4	ppm
n EOdiNu	1S- 1				1S7		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1S0		G
r caodiNu	4y 2				hy		G
r blboiNu	72 1	1.2S	1.4-	1.hS	1.y1	2- .76	ppm
r blboiNu	00 2	- 4.26	- 6.10	4S.41	- 6.h4	7.y2	ppm
r blboiNu	07 2	7.S0	0.76	0.y-	0.72	- .4-	ppm
r ilicOo	27 1	1y4.1h	1yy.y0	164.44	1y7.S0	- .y2	ppm
r ilRbe	1S0 1	S.41	S.4h	S.y1	S.40	11.y4	ppm
r ilRbe	1Sh 1	S.yS	S.y-	S.4h	S.y1	4.h6	ppm
r OdiNu	2- 2	2S2.1-	221.0-	2S- .02	2Sh.2S	y.2S	ppm
r teOotiNu	76 1	h6.26	h- .4h	1S- .SS	h0.y7	y.S1	ppm
r teOotiNu	77 1	1S2.16	hh.42	1S7.SS	1S- .1h	4.2y	ppm
r NfNe	- 4 1	14y4.y-	1420.27	1114.y1	1- - 2.11		ppm
TbemiNu	1yh 1				1Sh		G
TbemiNu	1yh 2				1S-		G
TEalliNu	2S- 1	S.- 1	S.- 4	S.- 6	S.- 4	6.07	ppm
TEalliNu	2Sy 1	S.- -	S.- 2	S.- -	S.- -	2.20	ppm
Tio	117 1	2.y7	2.4y	2.66	2.y6	4.21	ppm
TitaoiNu	40 1	1S0.66	112.41	11y.11	111.0-	- .- 7	ppm
FeaoiNu	2- 7 1	2.y7	2.6S	2.0y	2.64	- .yS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataOilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	y0.yh	yh.0h	y6.76	y7.S7	2.6-	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				1S2		G
Zioc	66 2	26h.S2	2hS.71	20y.72	207.yy	4.SS	ppm
ZieoOoiNu	hS 1	- .4h	- .46	- .07	- .y7	4.h-	ppm
ZieoOoiNu	h1 1	- .y2	- .y7	- .66	- .yh	2.S-	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	17y0y.66	17446.10	17- 40.- y	174y6.- h	S.62	ppm
Aotiu Oo%	121 1	S.6h	S.02	S.72	S.04	7.60	ppm
Aesboic	0y 2	2y.y1	20.4S	26.h1	26.61	- .67	ppm
BaeiNu	1- y 1	2hh.h2	- S1.- 2	- S0.60	- S2.h0	1.- 6	ppm
BaeiNu	1- 0 1	2h7.2h	- S0.24	- 1- .0-	- S6.42	2.y-	ppm
Bbe%liNu	h 1	1.76	1.hS	1.hS	1.7h	1.1h	ppm
Bisu NtE	2Sh 1				112		G
Bisu NtE	2Sh 2				1S0		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.26	2.y0	2.2S	2.- 4	7.y6	ppm
Uadu iNu	1S6 1	1.27	1.41	- .S4	1.h1		ppm
Uadu iNu	111 1	2.44	2.- y	2.4y	2.41	2.1h	ppm
UalciNu	4- 1	10y46.67	17- 22.2S	172S1.12	17S2- .- -	2.- 1	ppm
UalciNu	44 1	1717S.70	17772.- 0	17610.0S	17y6S.- 2	1.h1	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	- - .S-	- 2.1S	- 1.h6	- 2.- 6	1.0h	ppm
UOmalt	yh 2	16.6h	16.hh	16.1h	16.62	2.42	ppm
UOppbe	6- 2	4S.04	4S.0S	- h.h1	4S.4y	1.1y	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5 emiNu	164 1						cps
5 emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				hh		G
IeOo	y4 2	4- 4y6.hh	4214- .26	4171S.12	4240S.12	2.Sy	ppm
IeOo	y6 2	422S0.- h	42114.4y	4S646.Sh	416yy.h7	2.1S	ppm
IeOo	y0 2	42y41.70	- h66y.7S	- 7- - y.S2	4S17S.hS	y.- y	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	72.y7	72.21	72.40	72.42	S.2-	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	7S.04	06.- h	07.- -	07.4h	2.00	ppm
Lbad	2S7 1	72.Sy	0h.7y	7S.22	7S.01	1.46	ppm
LitEiNu	6 1				1S1		G
g avobsiNu	24 2	04y1.0h	04Sh.1S	02y- .- 2	0- 01.4S	1.42	ppm
g aovaobsb	yy 2	h0S.14	h44.S7	h2- .70	h46.S-	2.4y	ppm
g Ol%mdboNu	h4 1	6.20	0.Sy	0.11	6.71	6.76	ppm
g Ol%mdboNu	hy 1	1.07	1.0-	1.77	1.7S	4.1h	ppm
g Ol%mdboNu	h6 1	2.- 7	2.4S	2.40	2.42	1.h1	ppm
g Ol%mdboNu	h0 1	1.61	2.S4	1.77	1.74	11.0y	ppm
g Ol%mdboNu	h7 1	1.04	1.7h	1.76	1.7-	4.1h	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	- 0.72	- 0.SS	- 6.20	- 0.S-	2.1S	ppm
PEOspEOeNs	- 1 2	217- .S4	2- 10.46	2221.y-	224S.60	- .Sh	ppm
POtassiNu	- h 2	y4h1.16	y44- .4-	y- 70.24	y44S.61	S.h6	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1Sy		G
r caodiNu	4y 1				1S7		G
r caodiNu	4y 2				h7		G
r blboiNu	72 1	1.y0	1.4S	1.6-	1.y-	0.7h	ppm
r blboiNu	00 2	4- .2-	44.02	4h.y-	4y.7-	0.17	ppm
r blboiNu	07 2	h.- 6	1S.7y	7.71	h.60	1S.h2	ppm
r ilicOo	27 1	1hy.46	2Sy.S0	2S- .70	2S1.40	2.6S	ppm
r ilRbe	1S0 1	S.0y	S.71	S.06	S.00	- .76	ppm
r ilRbe	1Sh 1	S.04	S.02	S.7-	S.06	0.27	ppm
r OdiNu	2- 2	447.22	447.7y	4- 0.- S	444.0h	1.46	ppm
r teOotiNu	76 1	1Sy.h0	1S7.- 2	111.S7	1S7.46	2.- 6	ppm
r teOotiNu	77 1	111.- S	11- .- 0	114.hh	11- .22	1.64	ppm
r NfNe	- 4 1	21S0.12	10h1.hS	16h6.y6	176y.1h		ppm
TbemiNu	1yh 1				11-		G
TbemiNu	1yh 2				1Sy		G
TEalliNu	2S- 1	S.- h	S.4S	S.- 0	S.- h	- .24	ppm
TEalliNu	2Sy 1	S.- 7	S.4S	S.4-	S.41	y.6S	ppm
Tio	117 1	1.h6	2.Sy	2.Sy	2.S2	2.4y	ppm
TitaoiNu	40 1	71.1y	74.- 6	74.21	7- .24	2.17	ppm
FeaoiNu	2- 7 1	2.4y	2.44	2.- h	2.4-	1.2-	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	6y.S7	64.4-	6- .11	64.2S	1.y6	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				11-		G
YtteiNu	7h 2				11S		G
Zioc	66 2	2y4.- 7	24h.7h	2yS.- 0	2y1.yy	S.h7	ppm
ZieoCoiNu	hS 1	- .S-	- .S4	- .1S	- .S6	1.10	ppm
ZieoCoiNu	h1 1	2.76	2.70	- .1S	2.h4	4.y7	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1171- F2J	11762Fh6	12ShhF6-	11h2JF27	1F27	l l b
cn&mon%	121 1	1F1J	1FSh	1F22	1F1J	JF47	l l b
crwenAq	0J 2	21Fh0	21FS0	22F07	21Fh4	- FhS	l l b
BsrAum	1- J 1	27- F06	2J4F7S	- SJFS1	271F1h	7Fh6	l l b
BsrAum	1- 0 1	27- F41	261F70	- S4FhJ	27- F41	0F6S	l l b
Ber%BAum	h 1	- F10	2Fh-	- F- J	- F1J	6F67	l l b
BAumu&E	2Sh 1				111		G
BAumu&E	2Sh 2				1S0		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F7h	2F12	2F40	2F16	1- F64	l l b
RsOmAum	1S6 1	2F- S	1F1h	1F6h	1F0-		l l b
RsOmAum	111 1	1F64	1F- h	1F6J	1FJ6	hF4-	l l b
RsRqAum	4- 1	1S747FSJ	hh4hFS0	11JJSF6S	1S072FJ0	0F4J	l l b
RsRqAum	44 1	111- hF17	1S44hF7J	110S7F- -	11ShhF12	JF67	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	10F26	10FS-	10FS4	10F11	SF0J	l l b
RobsR&	Jh 2	1SF4S	1SF- -	1SF64	1SF46	1FJ7	l l b
Rol l er	6- 2	- 6F4J	- 6F60	- 6F72	- 6F6J	SFJ1	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				111		G
y oPmAum	16J 2				1S0		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				hh		G
Don	J4 2	2hS07F04	2h074Fh4	- S- 40FS1	2h0- 6FhS	2F14	l l b
Don	J6 2	27647F24	2h201F11	2h76SF64	2h26SFSS	2FS0	l l b
Don	J0 2	26JJ2FJ2	20SS6F22	2001hF0h	20Sh2F74	2F10	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	1S1F70	h0F7h	11SF2J	1S- F- 4	6F1S	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	h0FS2	h4F1h	1SJF2J	h7F72	JF72	l l b
LesO	2S7 1	1SSFh2	h6FS0	1S0F7h	1S1F6-	JF7J	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	- 0S0F1J	- 6h7F6J	- 746F27	- 0JSF0S	2F21	l l b
Msngsnewe	JJ 2	7J7F2h	76hF10	777F44	701Fh6	1F0J	l l b
MoP%bOenum	h4 1	1JF17	14FJ1	10F1J	1JF61	7F7S	l l b
MoP%bOenum	hJ 1	2F6h	2F4S	2F00	2F62	0F4J	l l b
MoP%bOenum	h6 1	- F72	- F0J	4F16	- Fh1	JF62	l l b
MoP%bOenum	h0 1	2F24	2F2S	2F4J	2F- S	JFh0	l l b
MoP%bOenum	h7 1	2FJ0	2F4J	2F67	2FJ0	4F44	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	10F0-	10F06	17F- 6	10FhJ	1Fh7	l l b
8EowI Eoruw	- 1 2	1762F44	100hF72	2S21F70	1777FS4	6FJ2	l l b
8o&swwAum	- h 2	J042F- 6	J076Fhh	J766FSS	J0h7F4J	1FS7	l l b
5EoOAum	1S- 1				1S4		G
5EoOAum	1S- 2				1S4		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				h6		G
peRenAum	72 1	1F76	1F- h	1F0J	1F60	14F66	l l b
peRenAum	00 2	4hFJS	64FSh	JSF- 2	J4F6-	1JFS1	l l b
peRenAum	07 2	11F07	1SF6J	11FhS	11F44	6FS-	l l b
pARqon	27 1	127F06	11hF61	1- JF44	120Fh-	6F21	l l b
pARer	1S0 1	1F00	1F61	1FhS	1F06	7F- -	l l b
pARer	1Sh 1	1F07	1F04	1F77	1F7S	4FSS	l l b
poOAum	2- 2	hJFS-	h2F- h	hhF21	hJFJ4	- F6S	l l b
p&on&Aum	76 1	00F4-	0- FS2	76F14	07F76	7F40	l l b
p&on&Aum	77 1	00FS4	02F07	72Fh4	00FJh	6FJ7	l l b
pufFur	- 4 1	17S- F17	24JhF6h	1- 4JF04	176hFJ4		l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsFAum	2S- 1	SF- h	SF- 4	SF41	SF- 7	hF1-	l l b
i EsFAum	2SJ 1	SF- 7	SF- 4	SF4S	SF- 0	0Fh-	l l b
i An	117 1	4FS6	- F4h	4F- 2	- FhJ	1SF00	l l b
i A&snAum	40 1	20JF0S	2J4F77	277FJh	20- FS6	6F2-	l l b
UrsnAum	2- 7 1	4F- 4	- Fhh	4F47	4F20	JFhS	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	4- F02	4- Fnh	4JF21	44F- 1	1F0h	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S0		G
ZAnq	66 2	- S1FJ6	- SJF67	- SJF6-	- S4F2h	SF07	l l b
ZAqonAum	hS 1	0F71	0FS0	7F1-	0F60	0FSh	l l b
ZAqonAum	h1 1	0F4h	0F11	7F16	0FJ7	0FS1	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	1: 7S2U2S	1: a21U4-	1: a07U6	1: 6- 4U$S	SU06	DDe
q5Tb n5%	121 1	4U6S	4U22	4U42	4U42	4U0	DDe
qpl r 5cl	0a 2	7SU$1	7SU17	72U1:	7SU0:	1UaS	DDe
Bwpcmb	1- a 1	6S6U0	a0SU27	a64U74	a7SU4:	- U7:	DDe
Bwpcmb	1- 0 1	611U$7	a71U44	a07U20	a: SU26	- U$0	DDe
Br p%8cmb	: 1	4U4	4U11	4U$a	4U10	- U07	DDe
Bdb mTE	2S: 1				11S		G
Bdb mTE	2S: 2				1Sa		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	2U-	- U21	2U07	2U0	0U2	DDe
v wob cmb	1S6 1	SU1a	SU2:	SU2S	SU$2		DDe
v wob cmb	111 1	2Ua2	2U42	2Ua4	2U4:	2UaS	DDe
v w8dcmb	4- 1	2- S07Ua6	22166U01	21: 01U:	224SaUaa	2U64	DDe
v w8dcmb	44 1	241S: Ua4	2- SSaU4	220- 2U2a	2- 272U7	- U1-	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- a 1						dDl
v E8hpd5r	- a 2						dDl
v Epmb cmb	a2 2	- : U-	- 7Ua:	- 7U07	- 7U S	1U$S	DDe
v new8T	a: 2	1aU77	1aU47	16U12	1aU72	2U$6	DDe
v nDDr p	6- 2	76U70	76U7	76U7-	76U6:	SU1	DDe
&%Dpnl cmb	1a6 1						dDl
&%Dpnl cmb	1a6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16a 1				1S:		G
h n8b cmb	16a 2				1S7		G
t5ocmb	11a 1				1S6		G
t5ocmb	11a 2				: :		G
tpn5	a4 2	4: : 7- U6-	477S6U01	4: : 71U02	4: a: SU6:	1U0	DDe
tpn5	a6 2	4: - 12U06	4: 4- SU6:	47: a1U76	4: 2- 1U00	SUa1	DDe
tpn5	a0 2	aS677U7	aS174U$-	aSa2- U0:	aS46aU4S	SUa1	DDe
Kp%DTn5	7- 1						dDl
Lr wo	2S6 1	- 40U1:	- 20U41	- 47U70	- 41U16	- UaS	DDe

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LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&c8mTm59FwdTnp9J	1
&wTr 9 9Acb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFc8 9u wb r 9J	1S- qC. Flb

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5cT
Lr wo	2S0 1	2: 7U1:	276U4-	2: 6U71	2: - U71	2U1:	DDe
Lr wo	2S7 1	- - 1U7:	- 21U0S	- 26U6-	- 26U04	1Ua6	DDe
LcTEcmb	6 1				: 7		G
y wW5r l cmb	24 2	061- U6:	04- : US1	0aa- US0	0a- aU26	1U17	DDe
y w5Mw5r l r	aa 2	1a66U11	1a- : U2	1a6- U6:	1aa6Ua7	SU-	DDe
y n8%eor 5mb	: 4 1	21U a	2SU7:	2SUa6	21U1-	- U4-	DDe
y n8%eor 5mb	: a 1	7US2	0U0a	0U0-	0U7-	2US4	DDe
y n8%eor 5mb	: 6 1	: Ua4	: U2S	: U7	: U0	1U74	DDe
y n8%eor 5mb	: 0 1	7US:	0U64	7U21	0U7	- U0a	DDe
y n8%eor 5mb	: 7 1	7U11	0U02	0U7a	0US	2UaS	DDe
u r no%b cmb	1aS 1						dDl
u r no%b cmb	1aS 2						dDl
u cdkr 8	6S 2	- 4U7S	- - U12	- 4US:	- 4USS	2U40	DDe
NEnl DEnpml	- 1 2	1777Ua6	100- USO	17: 2U61	17a1U41	- U60	DDe
NnTwl cmb	- : 2	64: : US6	6- 1- U7	646- U47	642aUa1	1Ua-	DDe
CEnocmb	1S- 1				1Sa		G
CEnocmb	1S- 2				1Sa		G
l dw5ocmb	4a 1				1S6		G
l dw5ocmb	4a 2				: 0		G
l r 8 5cmb	72 1	1U4	2U11	1U a	1U7S	22U6:	DDe
l r 8 5cmb	00 2	64U42	0aU46	04U6S	01U4:	7Ua:	DDe
l r 8 5cmb	07 2	12U41	14USS	1- U4:	1- US	6US7	DDe
l c8dn5	27 1	122U6	116U0	110U10	117U6-	2U0a	DDe
l c8gr p	1S0 1	2U67	2U62	2Ua4	2U61	2U07	DDe
l c8gr p	1S: 1	2U06	2U6a	2U6-	2U67	2Ua4	DDe
l nocmb	2- 2	- 2: Ua7	- 1: U11	- 26U07	- 2aU16	1U60	DDe
l Tpm5Tcmb	76 1	10aU76	167U24	102U1	102U14	2U22	DDe
l Tpm5Tcmb	77 1	177U00	100U1a	104U27	17SUS0	4U26	DDe
l m8mp	- 4 1	12aaUa-	10- : Ua0	1604U61	1aa6Ua0		DDe
Ar pecmb	1a: 1				11S		G
Ar pecmb	1a: 2				1S6		G
AEw8cmb	2S- 1	SUa6	SUa4	SUa:	SUa6	- U67	DDe
AEw8cmb	2Sa 1	SU6S	SUa4	SU6S	SUa7	aUS7	DDe
Ac5	117 1	11U60	1SU72	1SU7S	11U1S	4Ua1	DDe
AcTw5cmb	40 1	- 14U0	2: 7U10	270Ua1	- SSUS2	4Ua1	DDe
Rpw5cmb	2- 7 1	4U76	4U62	4U76	4U07	2U2	DDe

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LB9u mb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
Vw5wocmb	a1 2	72U0	71US:	7SU4-	71U S	1U21	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	7: 1				116		G
YTTpcmb	7: 2				114		G
Zc5d	66 2	46aU06	402U66	401U0-	40SUSa	SU7S	DDe
Zcpdn5cmb	: S 1	7U6:	7USS	7U20	7U2	4U10	DDe
Zcpdn5cmb	: 1 1	7Ua0	7US0	7U47	7U0	- U10	DDe

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Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	22- - 1U60	2S- 7SU0	2S7JJUSJ	2117aUS-	4U7S	DDe
q5Tb n5%	121 1	1U1S	1U1J	1USO	1U11	- U7-	DDe
qpl r 5cd	0J 2	42US-	- 7U6S	42US-	4SU7a	4U7J	DDe
Bwpcmb	1- J 1	42SU7J	447U61	4- 6Ua6	4- JU40	- U2S	DDe
Bwpcmb	1- 0 1	417UJ1	4- 6U14	447U2S	4- 4U22	- U46	DDe
Br p%8cmb	a 1	2U01	2Ua0	2Ua6	2U77	4Ua4	DDe
Bdb mTE	2Sa 1				11S		G
Bdb mTE	2Sa 2				1S-		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	1U44	1UJ4	1U42	1U40	4UJ6	DDe
v wob cmb	1S6 1	1UaJ	1U6S	2U24	SU76		DDe
v wob cmb	111 1	1USS6	1UJ-	1U2-	1U21	11U2S	DDe
v w8dcmb	4- 1	0- 14- U1a	0J4- 2USa	04JJaU7a	04- 07UJa	1UJJ	DDe
v w8dcmb	44 1	0S00JU42	04- a4US7	04S06UaS	0- S72U14	2U04	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- J 1						dDl
v E8hpd5r	- J 2						dDl
v Epmb cmb	J2 2	- 6Ua-	- 4USS6	- - U61	- 4U70	JU10	DDe
v new8T	Ja 2	24UJ7	22U06	2- U2J	2- U46	- UJ4	DDe
v nDDr p	6- 2	J6U41	J2U4S	J- U44	J4US7	- U74	DDe
&%Dpnl cmb	1J6 1						dDl
&%Dpnl cmb	1J6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16J 1				114		G
h n8b cmb	16J 2				1S6		G
t5ocmb	11J 1				11S		G
t5ocmb	11J 2				a0		G
tpn5	J4 2	6124JU64	J62a1UJ2	J0- 6JU62	J7- SSUa-	4U40	DDe
tpn5	J6 2	614SaU22	J6JaaU42	J07J1U27	J761aUa0	4U26	DDe
tpn5	J0 2	61aJ7UJ1	J01- 2U14	J76- aUS0	Ja24- U10	4U10	DDe
Kp%DTn5	7- 1						dDl
Lr wo	2S6 1	0- USJ	00US4	0aU20	06U4J	4U12	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r T:u wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&c8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFc8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5cT
Lr wo	2S0 1	6aUaa	0- U71	04UJ1	02U00	- UJ4	DDe
Lr wo	2S7 1	01UaS	06U1S	00UJ7	0JU12	- U71	DDe
LcTEcmb	6 1				1S2		G
y wW5r l cmb	24 2	- 6aa7UaJ	- - 720U6J	- J267U6S	- J- 6JUS0	4U4a	DDe
y w5Mw5r l r	JJ 2	21J0U4J	1aa- U20	2S- 6U64	2S62U4J	4U1-	DDe
y n8%eor 5mb	a4 1	0Ua2	7U4J	7UJ1	7U2a	- U7a	DDe
y n8%eor 5mb	aJ 1	- UJa	- UJ1	- U60	- UJ-	- Ua7	DDe
y n8%eor 5mb	a6 1	4US0	4US4	- Ua7	4US-	1U22	DDe
y n8%eor 5mb	a0 1	- U4J	- UJ2	- U64	- UJ4	2U67	DDe
y n8%eor 5mb	a7 1	- UJa	- U0S	- U67	- UJa	4U7J	DDe
u r no%b cmb	1JS 1						dDl
u r no%b cmb	1JS 2						dDl
u cdkr 8	6S 2	JJUJ-	JSU0-	J2U2-	J2U06	4U44	DDe
NEnl DEnpm	- 1 2	2J7aUJa	2- J4USa	210aU22	2- 04U2-	7U60	DDe
NnTwl cmb	- a 2	6aSaUSS	6- 7aUa6	6J4JU71	6614Ua2	4US-	DDe
CEnocmb	1S- 1				1S6		G
CEnocmb	1S- 2				1S1		G
l dw5ocmb	4J 1				1S7		G
l dw5ocmb	4J 2				a6		G
l r 8 5cmb	72 1	1UJa	1U76	2U12	1U76	14US0	DDe
l r 8 5cmb	00 2	J4UJ4	J7U17	02UJ7	61U6-	1JU42	DDe
l r 8 5cmb	07 2	1SU66	1SUSS	1- US0	11U24	14UJ7	DDe
l c8dn5	27 1	176UJ-	1a4U72	1a4U02	1a2US2	2U47	DDe
l c8gr p	1S0 1	SU46	SUJ-	SUJJ	SUJ1	aUSa	DDe
l c8gr p	1Sa 1	SUJ1	SUJ0	SUJ2	SUJ4	6U42	DDe
l nocmb	2- 2	41- U2J	- 00U17	- a2U04	- a4UJa	4UJa	DDe
l Tpn5Tcmb	76 1	1J0U40	16JU22	162U7a	161U76	2U46	DDe
l Tpn5Tcmb	77 1	160UJ1	10- U07	16aU1S	10SUS6	1Ua6	DDe
l m8mp	- 4 1	6J1UJ0	1S2UJa	110U60	212US-		DDe
Ar pecmb	1Ja 1				11-		G
Ar pecmb	1Ja 2				1S4		G
AEw8cmb	2S- 1	SU47	SUJ2	SUJS	SUJS	- UaJ	DDe
AEw8cmb	2SJ 1	SU4a	SUJ2	SUJ1	SUJ1	2U07	DDe
Ac5	117 1	2U1S	2U21	2U22	2U10	- U12	DDe
AcTw5cmb	40 1	7aU2J	a2U42	a1U1S	aSUa2	1U0J	DDe
Rpw5cmb	2- 7 1	- UJ2	- U02	- U6-	- U6-	2U06	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J1 2	76UJ4	7SU7a	71UaS	7- U1 1	- U6-	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	7a 1				110		G
YTTpcmb	7a 2				11S		G
Zc5d	66 2	- 42U01	- 1SU71	- 16U7a	- 2- U40	JU24	DDe
Zqcdn5cmb	aS 1	2Ua7	2UaJ	2Uaa	2Ua0	SU60	DDe
Zqcdn5cmb	a1 1	- U16	- U-	2Ua1	- U1-	6U6-	DDe

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6-	t Ro&on:. sq&or:9	1
t s&:T:i Ane:cqduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1666hF- J	1J002F66	1Jh- SF2S	16124FS0	2Fh0	l l b
cn&mon%	121 1	1F20	1F17	1F20	1F24	4F2J	l l b
crwenAq	0J 2	41Fh-	- hF61	4SF10	4SFJ0	2Fhh	l l b
BsrAum	1- J 1	27- F6S	2h- FhS	2h- Fh0	2hSF4h	2FSJ	l l b
BsrAum	1- 0 1	270F16	2h6F- J	2hJF74	2h- F12	1F06	l l b
Ber%BAum	h 1	1F06	1F0h	1F04	1F06	1FJ0	l l b
BAumu&E	2Sh 1				112		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F4h	1F- 6	1F4S	1F42	4F61	l l b
RsOmAum	1S6 1	SF42	1F7-	1FS7	SF7-		l l b
RsOmAum	111 1	1FS0	SFh4	1FS6	1FS2	0F2S	l l b
RsRqAum	4- 1	17J07FJ0	17604FJS	17h0SF6-	17041F24	1FSh	l l b
RsRqAum	44 1	1h- 17F71	1hJ- 1F17	1h6- SF7-	1h4h- F61	SF72	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	4JFh-	42F4S	4- F11	4- F71	4F20	l l b
RobsR&	Jh 2	2SF61	1hF1-	1hF67	1hF71	- F00	l l b
Rol l er	6- 2	44FSh	41F- J	41F74	42F42	- F4J	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				111		G
y oPmAum	16J 2				1SJ		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				h0		G
Don	J4 2	J2Sh4Fh7	4h0h1FJ1	4hh10F24	JS6S1F24	2FJ6	l l b
Don	J6 2	J1404FJ6	47027F16	JS14- FJ-	JS11JF42	2F04	l l b
Don	J0 2	J174SF12	4h402F- 1	JSJ- 7F67	JS610FS4	2F- 4	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	JSF6J	J1F4-	JSF4S	JSF72	1FS6	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 6-	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	47F-7	47Fh4	40F0J	47F-6	1F22	l l b
LesO	2S7 1	JSF-6	J1FSh	4hF-S	JSF2J	1F07	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	726hF40	0724F2S	0772FJ1	0hh2FS6	-FS-	l l b
Msngsnewe	JJ 2	2S60F4J	1hJ4FJS	1h66F7S	1hh6F2J	-F1S	l l b
MoP%oOenum	h4 1	1-FS0	1-F6J	1-F-J	1-F-6	2F1h	l l b
MoP%oOenum	hJ 1	JF04	JF60	JFJ4	JF6J	1F74	l l b
MoP%oOenum	h6 1	6F1h	6F-6	6F21	6F2J	1F40	l l b
MoP%oOenum	h0 1	JF6S	JF0S	JF44	JFJ7	2F42	l l b
MoP%oOenum	h7 1	JFJS	JF04	JF4h	JFJ7	2F4h	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	40F07	4JF-1	4JF-h	46F16	-FS4	l l b
8EowI Eoruw	-1 2	14-4F40	1-2JF0S	1-20F16	1-62F44	4FJ7	l l b
8o&swwAum	-h 2	4S24F44	-00SF0J	-hS1F-2	-7h7F7-	-F2J	l l b
5EoOAum	1S- 1				1Sh		G
5EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				111		G
pqsnOAum	4J 2				hJ		G
peRenAum	72 1	2FSh	2F74	2FS0	2F-	17Fh4	l l b
peRenAum	00 2	JhF-4	42F4-	40F2S	4hF6J	10FJ6	l l b
peRenAum	07 2	11F61	12F0h	11F72	12FS0	JF2S	l l b
pARqon	27 1	11JFh0	12SF40	122Fh0	11hF7S	2Fh6	l l b
pARer	1S0 1	SF-6	SF-2	SF-0	SF-J	6F-6	l l b
pARer	1Sh 1	SF-1	SF-0	SF-h	SF-J	11F0-	l l b
poOAum	2- 2	274F4J	260F-J	26JF10	202F-2	-F77	l l b
p&ona&Aum	76 1	70F42	77F2h	70F11	70F61	SF0S	l l b
p&ona&Aum	77 1	hSF67	h-F26	h2F2-	h2FS6	1F41	l l b
pulRur	-4 1	6JSF-7	7S2F46	626F2J	6h-FS-		l l b
i erbAum	1Jh 1				112		G
i erbAum	1Jh 2				1S-		G
i EsRAum	2S- 1	SF-J	SF-0	SF-4	SF-6	4FS-	l l b
i EsRAum	2SJ 1	SF-4	SF-0	SF-4	SF-J	4F20	l l b
i An	117 1	2FhS	-FS0	2FhJ	2Fh0	2Fh6	l l b
i A&snAum	40 1	1S4F11	1S4FS1	1S6F-h	1S4F74	1F27	l l b
UrsnAum	2-7 1	-F40	-F44	-F44	-F4J	SF4J	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6-	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Re:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	J1 2	02F11	60FJ2	60F74	6hF16	- F0S	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				110		G
Y&&Aum	7h 2				111		G
ZAnq	66 2	26- FJ6	246FJ1	2JSF21	2J- F4-	- FJ4	l l b
ZAqonAum	hS 1	4F0-	4Fhh	4F71	4F74	2F0h	l l b
ZAqonAum	h1 1	4F02	4F67	4Fh7	4F0h	- F42	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1046SF1S	1660JFh0	16167F0h	16067F2h	- F77	l l b
cn&mon%	121 1	1F0h	1F6J	1F70	1F00	6F20	l l b
crwenAq	0J 2	JJF0J	4hFfh	4hF71	J1F7J	6FJ1	l l b
BsrAum	1- J 1	4JSFh-	4- 1F-6	4- 6F1S	4- hF46	2F-2	l l b
BsrAum	1- 0 1	4J4F76	4- JF2S	4- - Fh2	441F- -	2F66	l l b
Ber%BAum	h 1	2FJ4	2F4-	2F-J	2F44	- F0h	l l b
BAumu&E	2Sh 1				1Sh		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F-0	- F4h	2F7J	- F24	1SFJ-	l l b
RsOmAum	1S6 1	1FS1	SF14	2F-S	1FS6	11JF0J	l l b
RsOmAum	111 1	2F7h	2FJ7	2F06	2F0J	JF62	l l b
RsRqAum	4- 1	6Sh0JF0J	J6166F6-	J61JhF-6	J0060F2J	4F71	l l b
RsRqAum	44 1	6- S- 2F64	J7242FJ0	J74hJF-1	Jhh2- FJ1	4FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	4JFh7	4- F76	42F0S	44F17	- F06	l l b
RobsR&	Jh 2	14F0S	1- Fh1	1- F07	14F1-	- FJ-	l l b
Rol l er	6- 2	hSF7J	76F2-	74F64	70F24	- F0S	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				111		G
y oFmAum	16J 2				1S6		G
DnOAum	11J 1				1S0		G
DnOAum	11J 2				h7		G
Don	J4 2	4- 41SFfh	- hJh4F64	- hh40F27	4Sh74F-S	JF1J	l l b
Don	J6 2	42- S0F66	4S- 6hFJ0	- h600F2h	4S074F74	- F-4	l l b
Don	J0 2	- 7076F70	- 7S1hF62	- 6466FJ4	- 00J0F67	- F1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	2- 7F24	226FS2	2- SFJ2	2- 1F6S	2F60	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	220F6S	217F21	221F74	222FJJ	2F1-	l l b
LesO	2S7 1	247F24	2- 6F4J	242F41	242F- 6	2F4-	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	1J07hF40	14606Fhh	14- 7hF02	14hJ2FS6	4Fh4	l l b
Msngsnewe	JJ 2	14JhF21	1- 0SF2J	1- J4F6h	1- h4F01	4FS4	l l b
MoP%bOenum	h4 1	1JFJ7	14F06	14F62	14Fhh	- F47	l l b
MoP%bOenum	hJ 1	4F- h	- Fh1	- Fh-	4FS7	6F67	l l b
MoP%bOenum	h6 1	JF4J	JF2-	JF2S	JF- S	2FJ0	l l b
MoP%bOenum	h0 1	4F26	4F- 4	- Fh6	4F1h	4F6h	l l b
MoP%bOenum	h7 1	4F- -	4F14	- FhS	4F1-	JF22	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	- 0F00	- 4F6J	- JFJS	- JFh0	4F4h	l l b
8 EowI Eoruw	- 1 2	2- S2F70	21h0F- 6	224SF10	2246F7S	2F- 6	l l b
8 o&swwAum	- h 2	J1JhF60	4h27F70	40h4Fh2	4h61F1J	- F02	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S7		G
pqsnOAum	4J 2				h6		G
pe?enAum	72 1	2FS4	1FJ-	1F70	1F71	14F2J	l l b
pe?enAum	00 2	67FJS	41F27	J- F66	J4F47	2JFS1	l l b
pe?enAum	07 2	11F7h	7F77	11F12	1SF6-	14F0S	l l b
pAqon	27 1	104F62	1J6F01	16SF12	16- F72	JF71	l l b
pAer	1S0 1	1F1-	1F14	1F1-	1F14	SF66	l l b
pAer	1Sh 1	1F16	1FSh	1F1-	1F1-	- F17	l l b
poOAum	2- 2	002FS1	01hF4-	02JF4S	0- 7FhJ	- FhS	l l b
p&on&Aum	76 1	266FSJ	2JJFS1	2J4FJ4	2J7FJ-	2FJ2	l l b
p&on&Aum	77 1	207FJ6	262Fh4	264F26	267FJh	- F22	l l b
pufur	- 4 1	12SJF42	- 7SF6h	4S- FJS	66- F2S	0SF72	l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsPAum	2S- 1	SF41	SF4S	SF- 0	SF4S	JFh4	l l b
i EsPAum	2SJ 1	SF42	SF4S	SF- 7	SF4S	JFJ7	l l b
i An	117 1	4F74	4FJ7	4F64	4F6h	2FhJ	l l b
i A&snAum	40 1	27SFh1	2J0F7h	2J6F- h	26JFS6	JF17	l l b
UrsnAum	2- 7 1	4FS0	- F72	- Fh2	- Fh4	- F2-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J1	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109J79J1	t s&s. Re:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	J1 2	60FJS	64FJ0	61Fh0	64F67	4F27	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S7		G
ZAnq	66 2	J- 1F06	4h7F- J	4h1FS7	JS0FS6	4F27	l l b
ZAqonAum	hS 1	0FSS	6F72	6F0h	6F70	1F64	l l b
ZAqonAum	h1 1	0F14	6F70	6F72	6Fh4	2F4J	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1hh0- F44	1hhh- F0J	22477F6S	2S717FJh	6FhJ	l l b
cn&mon%	121 1	SFh-	SF74	SF76	SF77	JFJ2	l l b
crwenAq	0J 2	1- FSJ	12F41	14F06	1- F4S	hFS6	l l b
BsrAum	1- J 1	J6JFS-	4h- FS2	4hJF24	J10F00	0Fh1	l l b
BsrAum	1- 0 1	J67FJS	4h- F- 6	4hSF60	J10FJ1	7FJ4	l l b
Ber%BAum	h 1	1F60	1F47	1F4-	1FJ2	7F- 0	l l b
BAumu&E	2Sh 1				1S0		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F04	1FJ2	1F4-	1FJ6	1SF1h	l l b
RsOmAum	1S6 1	1F4-	SF00	1F6S	SF- 1		l l b
RsOmAum	111 1	1FJS	1F20	1F4S	1F- h	7F4h	l l b
RsRqAum	4- 1	2- 166F71	21S44Fh2	2S47SF41	21J64FSJ	6FJ0	l l b
RsRqAum	44 1	2- hhSF7S	21676F67	2S066F2-	22140FhS	0FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	2- F- 4	2- F76	20FS4	24F0J	7F1S	l l b
RobsR&	Jh 2	1- F10	1- F- 2	14F7-	1- F00	6F67	l l b
Rol l er	6- 2	- hF67	4SF7S	4JF16	41F77	6Fh1	l l b
t %w l rowAum	1J6 1						ql w
t %w l rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16J 1				1S0		G
y oFnAum	16J 2				1SJ		G
DnOAum	11J 1				1S4		G
DnOAum	11J 2				hh		G
Don	J4 2	- 7J00F04	- 72J0F4J	42J0SF- -	- h7S1F74	6FS4	l l b
Don	J6 2	- 0160FJ1	- 0246F01	417- - F- 1	- 704hF10	6F7h	l l b
Don	J0 2	- J11hF62	- J4S2F0J	- 776JF2h	- 6462FJJ	JF02	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7hFJ0	74F21	00FS7	7- F62	0FJS	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	7JF06	0hF2-	0- Fh4	0hF6J	0F4-	l l b
LesO	2S7 1	70FJJ	71F2-	06F66	71F71	6F67	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	66- 2F4h	6014F22	04- JFJ1	6h20F41	6F- 7	l l b
Msngsnewe	JJ 2	0S2F16	0ShFhS	076F- 6	0- 2F71	6F- J	l l b
MoP%bOenum	h4 1	0FhS	7FS6	0FJJ	0F74	- F- 2	l l b
MoP%bOenum	hJ 1	1F46	1F- h	1F- 1	1F- h	JFJ2	l l b
MoP%bOenum	h6 1	2F4-	2FS0	1Fh0	2F16	11F- 4	l l b
MoP%bOenum	h0 1	1F64	1F- 0	1F- 2	1F44	11Fhh	l l b
MoP%bOenum	h7 1	1F46	1F- J	1F4-	1F41	- FhS	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	2- F- -	24F6h	26F62	24F77	6F64	l l b
8 EowI Eoruw	- 1 2	266JF64	26S4F- 0	- 2ShF0h	2726F6S	11F0h	l l b
8 o&swwAum	- h 2	66hhF00	66- 2FSh	047JF16	6h- hFSS	6F7-	l l b
5 EoOAum	1S- 1				1S-		G
5 EoOAum	1S- 2				1S-		G
pqsnOAum	4J 1				1S6		G
pqsnOAum	4J 2				h6		G
pe Re nAum	72 1	SFh0	SF7J	SFJJ	SF0h	20F- 6	l l b
pe Re nAum	00 2	22FSJ	- 7F02	44FJ2	- JF1S	- - F2-	l l b
pe Re nAum	07 2	6FJ7	6F26	JF67	6F10	0F- 2	l l b
pAAqon	27 1	1h1F- 0	10hFh1	101F1S	17SF0h	JF62	l l b
pAPer	1S0 1	SF2h	SF2J	SF2J	SF26	7FJS	l l b
pAPer	1Sh 1	SF2h	SF2J	SF24	SF26	hFSS	l l b
poOAum	2- 2	174Fh2	17JFJJ	224F- 2	1h7F26	11F- 7	l l b
p&ona&Aum	76 1	J10F1-	472F40	474FJJ	4h4F02	- Fh-	l l b
p&ona&Aum	77 1	J- 7F- J	JS4FJ4	47- FS4	JS7F64	JF47	l l b
pulPur	- 4 1	- 46FS-	764F- 0	1201F06	Jh6F0S		l l b
i erbAum	1Jh 1				1S7		G
i erbAum	1Jh 2				1SJ		G
i EsPAum	2S- 1	SF- -	SF20	SF27	SF- S	11FSJ	l l b
i EsPAum	2SJ 1	SF- 1	SF- S	SF- 1	SF- S	1FJ6	l l b
i An	117 1	2F46	2FS1	2F11	2F1h	1SF07	l l b
i A&snAum	40 1	11- FJ2	1S4Fh6	1S1F2J	1S6FJ7	JFhS	l l b
UrsnAum	2- 7 1	2F76	2F66	2F47	2F66	0F2-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J4	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	J7F7S	JhF0-	6JF01	61F41	6F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S7		G
Y&&Aum	7h 2				1S6		G
ZAnq	66 2	20hFJ0	277FJ6	- 16F16	2h4F06	6F40	l l b
ZAqonAum	hS 1	- FhS	- F6J	- F0S	- F0J	- FJS	l l b
ZAqonAum	h1 1	4F11	- F0S	- F4S	- F0-	hF6J	l l b

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	146- - .04	14700.67	14y16.h-	14606.12	1.2y	ppm
Aotiu Oo%	121 1	S.- 2	S.- 6	S.- 4	S.- 4	0.16	ppm
Aesboic	0y 2	1S.42	h.0h	h.44	h.77	y.Sy	ppm
BaeiNu	1- y 1	- 1h.2y	- 24.- S	- 17.SS	- 2S.y2	1.S4	ppm
BaeiNu	1- 0 1	- 22.40	- 27.04	- 16.04	- 22.6y	1.76	ppm
Bbe%liNu	h 1	1.S4	1.Sy	1.S4	1.S4	S.- 4	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1Sy		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	S.40	1.S-	S.66	S.02	- h.y-	ppm
Uadu iNu	1S6 1	- .07	- .46	y.S4	4.Sh		ppm
Uadu iNu	111 1	S.4h	S.y1	S.4y	S.47	y.h-	ppm
UalciNu	4- 1	1y244.26	1y461.S4	1y477.76	1y- h7.Sy	S.70	ppm
UalciNu	44 1	1y064.- y	1y066.2y	161- 1.- 6	1y770.- 2	1.- -	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	1y.1y	1y.72	1y.16	1y.- 7	2.y1	ppm
UOmalt	yh 2	h.4y	h.y6	h.- 0	h.46	1.S-	ppm
UOppbe	6- 2	21.01	22.1S	22.1-	21.h7	1.S0	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	201y1.61	20S1S.71	26464.yy	2670y.66	1.- y	ppm
IeOo	y6 2	26yh2.44	26yy7.7y	2626S.04	2640S.60	S.6h	ppm
IeOo	y0 2	2462h.60	24h0h.61	24074.44	240h0.h1	S.01	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	- 0.S4	- 6.6h	- 6.hS	- 6.77	S.4h	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	- y.16	- y.- 0	- y.04	- y.42	S.7-	ppm
Lbad	2S7 1	- 6.- y	- 6.10	- 6.17	- 6.2-	S.27	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	y220.h4	y- yh.7-	y- yh.02	y- 1y.7-	1.4-	ppm
g aovaobsb	yy 2	477.h2	470.h-	47S.20	47y.01	S.h0	ppm
g Ol%mdboNu	h4 1	4.6-	4.2h	4.y7	4.yS	4.1y	ppm
g Ol%mdboNu	hy 1	S.07	S.67	S.0S	S.02	6.h1	ppm
g Ol%mdboNu	h6 1	1.17	1.16	1.1S	1.1y	- .4S	ppm
g Ol%mdboNu	h0 1	S.0y	S.6-	S.67	S.6h	7.00	ppm
g Ol%mdboNu	h7 1	S.04	S.67	S.66	S.6h	y.76	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	17.h4	17.1y	1h.S1	17.0S	2.y4	ppm
PEOspEOeNs	- 1 2	1S- 1.14	1S- 6.S2	h- - .06	1SSS.- 1	y.00	ppm
POtassiNu	- h 2	26h6.yS	201y.h7	2606.y6	26h6.- y	S.0-	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1Sh		G
r caodiNu	4y 2				h4		G
r blboiNu	72 1	S.S0	S.1-	S.64	S.27	111.y2	ppm
r blboiNu	00 2	- 1.11	21.26	- 2.07	27.- h	21.h-	ppm
r blboiNu	07 2	6.- 0	y.64	6.4S	6.14	0.S6	ppm
r ilicOo	27 1	14S.40	147.- h	146.- 0	14y.S7	2.74	ppm
r ilRbe	1S0 1	S.11	S.12	S.1-	S.12	6.h2	ppm
r ilRbe	1Sh 1	S.1-	S.1-	S.11	S.12	h.yh	ppm
r OdiNu	2- 2	- 47.74	- yh.h7	- y1.- S	- y- .- 0	1.66	ppm
r teOotiNu	76 1	- 2h.7S	- - 4.00	- 24.7S	- 2h.0h	1.y1	ppm
r teOotiNu	77 1	- 41.y0	- 47.- 1	- - 6.12	- 42.SS	1.0h	ppm
r NfNe	- 4 1	2- S2.0-	2S04.1-	21yS.- 6	210y.04		ppm
TbemiNu	1yh 1				112		G
TbemiNu	1yh 2				1S2		G
TEalliNu	2S- 1	S.2S	S.22	S.22	S.21	0.S0	ppm
TEalliNu	2Sy 1	S.22	S.2-	S.22	S.22	2.yS	ppm
Tio	117 1	1.20	1.- 1	1.26	1.27	2.14	ppm
TitaoiNu	40 1	6y.SS	66.yy	60.Sy	66.2S	1.62	ppm
F eaoiNu	2- 7 1	1.- y	1.- y	1.4y	1.- 7	4.26	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	- h.42	- h.h7	- h.02	- h.01	S.0S	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				hh		G
Zioc	66 2	12S.02	121.y2	11h.4-	12S.y6	S.77	ppm
ZieccOoiNu	hS 1	2.1-	2.24	2.1y	2.10	2.y6	ppm
ZieccOoiNu	h1 1	2.2y	2.- -	2.- S	2.2h	1.0-	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
AlNu ioiNu	20 2	2460- F12	2S462F62	2S- 6- F77	217- - F21	11F20	ppm
Aotiu Oo%	121 1	SFhh	SFhn	SFh4	SFh6	4F64	ppm
Aesboic	0h 2	4- F0n	- 0F6n	- - F74	- 7F44	1- FSh	ppm
BaeiNu	1- h 1	- 72F7-	- n1F- S	- 74F14	- 76FSn	1F17	ppm
BaeiNu	1- 0 1	- 74F01	- n7F4-	- n1FS1	- n1F- 7	1F06	ppm
Bbe%liNu	n 1	1F02	1F02	1F60	1F0S	1Fhn	ppm
Bisu NtE	2Sn 1				11S		G
Bisu NtE	2Sn 2				1SS		G
BeOu iob	71 1						cps
Radu iNu	1S7 1	1F2-	SFn0	SF0h	SFn7	24F72	ppm
Radu iNu	1S6 1	2Fh2	- F10	- Fh0	- FSn		ppm
Radu iNu	111 1	1FSh	SFn7	SFn7	1FSS	4F27	ppm
RalciNu	4- 1	1- 72hF7n	14S14F2-	1- nn2F62	1- n44F24	SF04	ppm
RalciNu	44 1	1406hF04	144S- F- n	142- hFn1	14467F- h	1F70	ppm
RaemOo	12 1						cps
RaemOo	12 2						cps
REIOeiob	- h 1						cps
REIOeiob	- h 2						cps
REeOu iNu	h2 2	h4F4n	4hFS7	4hF24	47F20	11F16	ppm
ROmalt	hn 2	- - Fn0	20Fnh	27F14	- SFS2	11F4S	ppm
ROppbe	6- 2	06Fn0	6- F2S	64F40	67F21	11F16	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
CemiNu	164 1						cps
CemiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
y Olu iNu	16h 1				11S		G
y Olu iNu	16h 2				1SS		G
IodiNu	11h 1				1S6		G
IodiNu	11h 2				n-		G
IeOo	h4 2	02hSSF06	hn726F27	6Sn00Fh6	644- 4F70	1SF77	ppm
IeOo	h6 2	016n- F74	hn604F0S	hnh- nF7h	6- 6- 6F1-	1SFn0	ppm
IeOo	h0 2	0- S21F20	6S7- 2Fn-	616S1FS6	6h1h1F06	1SF47	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	h6F- h	h0F07	h6FS4	h6F02	1F64	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
Lbad	2S0 1	h- F1S	h4F74	h- FS7	h- F60	1F7n	ppm
Lbad	2S7 1	h4F6n	h6F20	h4F61	hhF1n	1F01	ppm
LitEiNu	6 1				1S2		G
MagobsiNu	24 2	1- 112F04	1Sh06Fn0	1S0n1F66	114n- F0n	12F2-	ppm
Maogaobsb	hh 2	2646Fn7	2170F1n	2227Fn-	2- h4F- 0	1SF7S	ppm
MOl%mdboNu	n4 1	hF61	hF21	hF11	hF- 1	hFSS	ppm
MOl%mdboNu	nh 1	1F0h	1F06	1F77	1F0n	- Fnn	ppm
MOl%mdboNu	n6 1	2F1S	2F24	2FSn	2F14	- F74	ppm
MOl%mdboNu	n0 1	1F07	1F74	1Fn4	1F7h	4F- 1	ppm
MOl%mdboNu	n7 1	1F04	1F0h	1F7h	1F07	- FnS	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	7- FS0	67F77	60F0h	0- F2-	11F66	ppm
PEOspEOeNs	- 1 2	2277Fhh	211nF27	21n0F- 2	22S1F01	- F7h	ppm
POtassiNu	- n 2	07h- F0n	6h- hFn6	6h17F- h	6n6nF- 6	1SFnn	ppm
5 EOdiNu	1S- 1				1S0		G
5 EOdiNu	1S- 2				nn		G
r caodiNu	4h 1				1S7		G
r caodiNu	4h 2				n1		G
r blboiNu	72 1	- F12	2FnS	2F40	2F7-	11Fhn	ppm
r blboiNu	00 2	- hFn2	- 6F0-	- 6Fn4	- 6Fh-	1F40	ppm
r blboiNu	07 2	1- F24	nF0h	0F77	1SF2n	26F44	ppm
r ilicOo	27 1	21nF1h	21hFh0	214F0-	216F47	1FS7	ppm
r ilvbe	1S0 1	SF2n	SF27	SF- S	SF2n	2F2-	ppm
r ilvbe	1Sn 1	SF- 2	SF27	SF27	SF2n	7F62	ppm
r OdiNu	2- 2	h20F- 2	4- 7F07	4- 2F0-	466F27	11F- 6	ppm
r teOotiNu	76 1	11SF06	112F7S	112F22	111Fn-	SFn-	ppm
r teOotiNu	77 1	114F1h	121F16	11nFh2	117F27	- F1S	ppm
r NfNe	- 4 1	2Sh7F17	210hF4n	227hF21	2102Fn6		ppm
TbemiNu	1hn 1				11S		G
TbemiNu	1hn 2				nn		G
TEalliNu	2S- 1	SF42	SF46	SF4h	SF44	- Fn0	ppm
TEalliNu	2Sh 1	SF41	SF4h	SF41	SF42	6F1S	ppm
Tio	117 1	SFn7	1F11	1FS0	1FSh	hFn0	ppm
TitaoiNu	40 1	h0F6n	h0F74	h0FS-	h0Fh2	SF0h	ppm
UeaoiNu	2- 7 1	2F76	- FS1	2Fn4	2Fn-	2F40	ppm

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Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
VaoadiNu	h1 2	1SnF0n	nSF72	nSFnn	n0F2S	11F22	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				11-		G
YtteiNu	7n 2				1S2		G
Zioc	66 2	2n7FnS	24nF- -	24hF- 6	264Ffn-	11F27	ppm
ZieoCoiNu	nS 1	2F1n	2F2-	2F24	2F22	1F1h	ppm
ZieoCoiNu	n1 1	2F14	2F2h	2F- 2	2F24	4FS4	ppm

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 6h	t Ar&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsmea&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
cRmAnAum	20 2	- 1712F- h	- 1720F41	- 24S- F6S	- 2S14F40	1FS:	l l b
cn&Amon%	121 1	SF77	SF0h	SF6h	SF0h	12F40	l l b
crwenAq	0: 2	26F16	20FS1	2: F: :	26F24	2F0h	l l b
BsrAum	1- : 1	40SFhh	42: FS1	412F: :	4- 6F17	0FS6	l l b
BsrAum	1- 0 1	401FS1	422F6h	42- F7h	4- hF2S	6F20	l l b
Ber%BAum	h 1	2FhS	2F66	2F6-	2F0-	: F46	l l b
BAumu&E	2Sh 1				1S2		G
BAumu&E	2Sh 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	2FS2	1F04	1F: S	1F06	14F06	l l b
RsOmAum	1S6 1	1Fh1	SF: 2	SFh4	SF1:	1S14F44	l l b
RsOmAum	111 1	1F02	1F: -	1F: 1	1F: h	0F- 2	l l b
RsRqAum	4- 1	47- : 4F- 0	42- - - F4-	4S7- hF47	4- 742F4-	hFS0	l l b
RsRqAum	44 1	: SS- : F4:	4- 77- F47	416S7F- S	4: 10: F04	hF6:	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- : 1						ql w
REFrAne	- : 2						ql w
REromAum	: 2 2	42F- -	42F71	42F27	42F40	SF6h	l l b
RobsR&	: h 2	21F- :	22F16	22F2h	21Fh-	2F- -	l l b
Rol l er	6- 2	47F0S	4hF00	: SF: 7	4hF67	1FhS	l l b
t %wl rowAum	1: 6 1						ql w
t %wl rowAum	1: 6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16: 1				1S:		G
y oPmAum	16: 2				1S0		G
DnOAum	11: 1				1S1		G
DnOAum	11: 2				1SS		G
Don	: 4 2	62106F72	6- 44SF: 2	6- 41- FS2	6- S1SF12	1F1:	l l b
Don	: 6 2	61014FS-	6202- F: 6	6- S2SF: 7	62476FS:	1F1S	l l b
Don	: 0 2	626- SF: 1	64100F: 6	6- h: 7Fh7	6- : 7hFS2	1F- 2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7- FSS	0- F20	0SF1:	0: F40	7F70	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenA9psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF9RonqF	Ronq5pt	UnA&w
LesO	2S0 1	0hFh1	6hF04	66F: S	02FS:	hF01	I I b
LesO	2S7 1	71Fh-	01F40	67F26	0- F7h	hF67	I I b
LAEAum	6 1				h7		G
MsgnewAum	24 2	14S7: F14	14022F6h	14- 66F16	14- h1F- -	2F22	I I b
Msngsnewe	: : 2	11S1F1S	11- 4F7h	1120FS6	1121FS2	1F: 7	I I b
MoP%bOenum	h4 1	11FS-	hF64	hFS0	hFh1	1SF10	I I b
MoP%bOenum	h: 1	2Fh7	2F: h	2F: 4	2F0S	hFSS	I I b
MoP%bOenum	h6 1	- FhS	- F46	- F20	- F: 4	hF2S	I I b
MoP%bOenum	h0 1	- F1S	2FhS	2F01	2FhS	6F67	I I b
MoP%bOenum	h7 1	- FS0	2Fh1	2F6:	2F77	0F4h	I I b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	: hF2:	: hF7h	61F12	6SFSh	1F: 7	I I b
8EowI Eoruw	- 1 2	1661F- 6	1077Fh0	1h- 4Fh-	10h: FSh	0F6-	I I b
8oa&swwAum	- h 2	6616F7h	67S6F0-	674SF2S	60: 4F6S	1F07	I I b
5EoOAum	1S- 1				1SS		G
5EoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S2		G
pqsnOAum	4: 2				hh		G
peRenAum	72 1	- F: h	1F04	2F: h	2F64	- : F16	I I b
peRenAum	00 2	6- FhS	6SFS-	6- F61	62F: 1	- F4:	I I b
peRenAum	07 2	hF24	1SF44	12FSh	1SF: h	1- F: S	I I b
pARqon	27 1	2- 6FS-	21SF- 7	1h: F4h	21- Fh0	hF: h	I I b
pARer	1S0 1	SF- 0	SF- -	SF- 2	SF- 4	0Fh2	I I b
pARer	1Sh 1	SF- 6	SF- 2	SF- 1	SF- -	7F2-	I I b
poOAum	2- 2	20SFhS	20hF7S	27SF01	200F14	1Fh6	I I b
pa&onA&um	76 1	10- F- 2	1: 0F61	140F64	1: hF: 2	7F11	I I b
pa&onA&um	77 1	174FS7	161F0:	1: 7F77	167F24	7F2S	I I b
pufRur	- 4 1	221F46	1126F4:	1414Fh4	00- F- 1		I I b
i erbAum	1: h 1				1S4		G
i erbAum	1: h 2				1S0		G
i EsRAum	2S- 1	SF00	SF6h	SF6h	SF02	6F67	I I b
i EsRAum	2S: 1	SF07	SF0S	SF60	SF02	7FSS	I I b
i An	117 1	4F- 1	- F64	- FhS	- Fh:	7F: 6	I I b
i A&snAum	40 1	1S: F- 4	h- F: 7	7hF72	h6F2:	7F41	I I b
UrsnAum	2- 7 1	- F66	- F1h	- FS:	- F- S	hF64	I I b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
VsnsOAum	: 1 2	h: F0:	h: F44	h0F44	h6F21	1F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				111		G
Y&&Aum	7h 2				114		G
ZAnq	66 2	26- F- S	260F2S	26hF0:	266F0:	1F22	l l b
ZAqonAum	hS 1	4F07	4F2-	- Fh6	4F- 2	hF0S	l l b
ZAqonAum	h1 1	4Fhh	4F11	4F2:	4F4:	1SF: h	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:1791 - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	17JS- FJ0	10706F71	10066FS6	17172F27	- F4h	l l b
cn&mon%	121 1	1F6J	1F01	1F02	1F01	1FS2	l l b
crwenAq	0h 2	0SFJ6	60F2J	67F- 1	67F7h	2F0h	l l b
BsrAum	1- h 1	40- FJ1	461FSJ	404F4J	46JF7-	1F61	l l b
BsrAum	1- 0 1	462F42	461FJS	476FJJ	40SF44	- FSh	l l b
Ber%BAum	J 1	- F00	- F71	- F0S	- F06	1F4J	l l b
BAumu&E	2SJ 1				1S7		G
BAumu&E	2SJ 2				1S7		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F6S	4F2J	- F- 4	- F04	1- FS7	l l b
RsOmAum	1S6 1	4F1-	1FJ1	- F22	- FSJ	- 6FS2	l l b
RsOmAum	111 1	- F41	- F22	- F2S	- F27	- F6h	l l b
RsRqAum	4- 1	4SJ64Fh2	4SS06F2h	4S6S- F01	4Sh47F16	1F1S	l l b
RsRqAum	44 1	4- S6SF2-	42112FS6	421h- F46	42441FJ2	1F26	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	20F47	2hF6S	2hF44	26F10	4F- 4	l l b
RobsR&	hJ 2	16F40	1hF- 2	1hF21	1hF60	4F44	l l b
Rol l er	6- 2	6- F- 7	h7F00	h7F02	6SF2J	4F44	l l b
t %w l rowAum	1h6 1						ql w
t %w l rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16h 1				111		G
y oFnAum	16h 2				1S7		G
DnOAum	11h 1				1SJ		G
DnOAum	11h 2				1S1		G
Don	h4 2	62027FJ0	h0h42F27	h6- J- F67	h7777F- 1	hF0-	l l b
Don	h6 2	62S0hF26	h027hF4h	h062hF22	h7JJhF- 1	4Fh-	l l b
Don	h0 2	62hhhF6-	h0JS0FSS	h07J2F64	hJ4h1F06	4Fh2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	247FhS	241F1-	24JFh4	246F- J	1F76	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179 1 - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	242FJh	2- 2FJS	2- 0F0J	2- 0F77	2F11	l l b
LesO	2S7 1	2h0F60	2hSF7-	2hhF70	2h4F0J	1F- J	l l b
LAEAum	6 1				1S2		G
MsgnewAum	24 2	10J12FJ4	10S6- F4-	16hh1F12	1010hF7-	4FSS	l l b
Msngsnewe	hh 2	2114F74	1J0- FS0	1Jh0F62	2S1hF17	4F- S	l l b
MoP%bOenum	J4 1	12F47	11F72	12F10	12F16	2F0-	l l b
MoP%bOenum	Jh 1	hFJ4	6FS6	6FS-	6FS1	1FS7	l l b
MoP%bOenum	J6 1	6F0-	6F64	6F04	6F0S	SF7S	l l b
MoP%bOenum	J0 1	6F11	6F1-	6FSS	6FS7	1F10	l l b
MoP%bOenum	J7 1	6FSS	hFJ2	6F1S	6FS1	1F40	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 1F0S	2JF21	27F- 7	2JF06	hF71	l l b
8 EowI Eoruw	- 1 2	1J- 6FJ2	17J6Fh2	17J- F27	1JS7FJ1	1F20	l l b
8 o&swwAum	- J 2	7S0SF24	06- - F4h	06S7FSS	000SFh0	- F- 4	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S0		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				1S1		G
pe?enAum	72 1	1F0J	1F4J	1F04	1F60	JF74	l l b
pe?enAum	00 2	70F77	7hFS-	7SF44	74F4h	4F4h	l l b
pe?enAum	07 2	14Fh6	1- F44	1hFJJ	14F66	7F0-	l l b
pAqon	27 1	1h1F26	14JFSS	147F4S	14JFhh	1FS1	l l b
pAer	1S0 1	1F7h	1F6J	1F0J	1F07	4F62	l l b
pAer	1SJ 1	1F07	1F71	1F7-	1F71	1F- h	l l b
poOAum	2- 2	2hSF2J	2- 0F07	2- 6FJS	241F66	- F1S	l l b
p&on&Aum	76 1	147F22	1hSFSS	14JF70	14JF- 6	SF66	l l b
p&on&Aum	77 1	1h6F7J	1h0F4J	1h2F2J	1hhFhh	1F7-	l l b
pufur	- 4 1	- JF1h	76F4S	7- F- S	14FS7		l l b
i erbAum	1hJ 1				111		G
i erbAum	1hJ 2				1S0		G
i EsPAum	2S- 1	SF6J	SF6J	SF6J	SF6J	SF1J	l l b
i EsPAum	2Sh 1	SF0S	SF67	SF66	SF67	2FJJ	l l b
i A	117 1	- F4-	- F- 0	- Fhh	- F4h	2F67	l l b
i A&snAum	40 1	462F26	447F0J	4h6F64	4hhF7J	1F47	l l b
UrsnAum	2- 7 1	6FS0	hF74	6FS4	hFJ7	2FS0	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179 1 - 9 J	t s&s. Re:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	60F44	6- FJS	62F74	64F02	- F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				117		G
ZAnq	66 2	672F21	6- 2F6-	6- JF4-	6h1F42	4F1-	l l b
ZAqonAum	JS 1	4FS7	4F1h	4F2h	4F16	2FS7	l l b
ZAqonAum	J1 1	4F- 6	4F- 1	4F20	4F- 1	1F14	l l b

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	21717.yy	22S4- .22	216h6.- 1	217- y.h1	S.7y	ppm
Aotiu Oo%	121 1	2.S6	2.- 2	2.2-	2.2S	6.1S	ppm
Aesboic	0h 2	71.S7	71.12	0y.7S	7S.66	S.y-	ppm
BaeiNu	1- h 1	h- h.0h	hhy.- 7	hh2.2-	h4y.12	2.21	ppm
BaeiNu	1- 0 1	h20.77	h6h.- y	hhS.1S	h40.0y	- .44	ppm
Bbe%liNu	y 1	4.S7	4.2h	4.26	4.1y	2.- y	ppm
Bisu NtE	2Sy 1				11S		G
Bisu NtE	2Sy 2				1S6		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	h.h4	4.77	h.y0	h.40	1S.S-	ppm
Uadu iNu	1S6 1	- .h2	4.40	4.1y	4.S6	12.Sy	ppm
Uadu iNu	111 1	- .y7	4.- 4	4.S0	4.1-	4.h2	ppm
UalciNu	4- 1	4- yh- .20	4h662.47	4h- 40.h6	44y70.00	2.S2	ppm
UalciNu	44 1	4h044.16	46yS2.4y	46001.22	46402.62	1.- 6	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- h 1						cps
UElOeiob	- h 2						cps
UEeOu iNu	h2 2	- 2.6-	- - .2S	- 2.6h	- 2.7-	S.yy	ppm
UOmalt	hy 2	2S.0y	21.47	2S.06	21.S1	1.y4	ppm
UOppbe	6- 2	yS.71	y2.2-	y1.76	y1.64	S.7S	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16h 1				11S		G
MOlu iNu	16h 2				1S7		G
IodiNu	11h 1				1S7		G
IodiNu	11h 2				1SS		G
IeOo	h4 2	6yhyy.74	6y614.1-	67722.67	6y- 4h.hh	S.6h	ppm
IeOo	h6 2	674- 0.20	6y- S7.h-	6y110.h4	67yh4.44	S.66	ppm
IeOo	h0 2	0S- 6- .0h	0Sy7S.2h	01S4h.27	0S0y6.4-	S.h-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	247.67	2h0.1h	2h4.S-	2h- .2y	1.6y	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	24S.hS	24y.Sy	24h.14	244.y1	1.06	ppm
Lbad	2S7 1	2hy.- -	26y.S1	26h.24	264.h-	1.7h	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	172y0.01	1ySy6.00	176- S.17	17604.77	2.1h	ppm
g aovaobsb	hh 2	2hy1.40	261S.76	26- h.21	2612.h1	S.74	ppm
g Ol%mdboNu	y4 1	17.S1	17.40	17.4-	17.- S	1.- y	ppm
g Ol%mdboNu	yh 1	7.S6	7.1-	7.24	7.1h	1.1-	ppm
g Ol%mdboNu	y6 1	y.2h	y.1h	y.21	y.2S	S.hh	ppm
g Ol%mdboNu	y0 1	7.Sh	7.42	7.16	7.21	2.- 4	ppm
g Ol%mdboNu	y7 1	7.2S	7.h4	0.y7	7.24	- .4S	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	4S.y6	42.2-	41.04	41.64	1.h4	ppm
PEOspEOeNs	- 1 2	24y0.S6	2h6S.S4	2- 2h.- S	246S.7S	4.y4	ppm
POtassiNu	- y 2	0721.h-	0y10.h1	0766.hh	0767.h-	S.61	ppm
n EOdiNu	1S- 1				1S6		G
n EOdiNu	1S- 2				1Sh		G
r caodiNu	4h 1				1Sy		G
r caodiNu	4h 2				yy		G
r blboiNu	72 1	1.yS	2.4-	2.- y	2.24	12.yy	ppm
r blboiNu	00 2	06.h1	70.71	70.S0	7- .0y	0.h4	ppm
r blboiNu	07 2	1h.44	1h.h-	1h.66	1h.h4	S.01	ppm
r ilicOo	27 1	146.21	161.S-	1h2.yS	1h- .- 7	4.74	ppm
r ilRbe	1S0 1	1.71	1.y1	1.76	1.76	2.h1	ppm
r ilRbe	1Sy 1	1.7S	2.S4	1.7h	1.yS	6.hh	ppm
r OdiNu	2- 2	- h1.27	- 6S.47	- h2.y7	- h4.y2	1.- 7	ppm
r teOotiNu	76 1	1y1.- 6	1yS.22	174.6S	177.0-	1.y2	ppm
r teOotiNu	77 1	1y2.h7	1yy.16	1yh.- 1	1yh.67	1.6y	ppm
r NfNe	- 4 1	10S.2y	ySS.h6	y60.2-	60y.- 6	6h.S7	ppm
TbemiNu	1hy 1				11S		G
TbemiNu	1hy 2				1Sh		G
TEalliNu	2S- 1	S.0y	S.71	S.00	S.0y	2.00	ppm
TEalliNu	2Sh 1	S.07	S.00	S.72	S.0y	- .0y	ppm
Tio	117 1	6.2h	6.0y	6.07	6.61	4.67	ppm
TitaoiNu	40 1	- h6.SS	- 67.0-	- 60.7y	- 64.2S	1.yh	ppm
F eaoiNu	2- 7 1	6.70	0.S6	6.y2	6.yh	1.4h	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169- -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	h1 2	7S.72	7S.60	7S.- 4	7S.61	S.- 1	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7y 1				12S		G
YtteiNu	7y 2				110		G
Zioc	66 2	60- .6h	67S.60	6h7.04	601.S2	1.60	ppm
ZieccOoiNu	yS 1	6.6S	6.6-	6.h6	6.6S	S.h6	ppm
ZieccOoiNu	y1 1	6.h4	6.64	6.7-	6.60	2.2-	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
cRmAAum	20 2	1JS72Fh2	10h60FhS	1h072F2h	10400F42	JF4h	l l b
cn&Amon%	121 1	- F71	4FS2	4FS4	- FJ6	- F22	l l b
crwenAq	0h 2	1S4F2h	J6F72	77F0S	J6FhJ	7FSh	l l b
BsrAum	1- h 1	h20F27	h- hF14	h1hF46	h2hFJ6	1F77	l l b
BsrAum	1- 0 1	h- SF06	h- 6FJh	h10F47	h27F4S	1F77	l l b
Ber%BAum	J 1	2FhJ	2Fhh	2F40	2Fh4	2F47	l l b
BAumu&E	2SJ 1				11-		G
BAumu&E	2SJ 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1- F4J	16F16	14FJ-	14F76	7FJ0	l l b
RsOmAum	1S6 1	1SF04	11F41	1SF2J	1SF71	hF22	l l b
RsOmAum	111 1	1SF64	1SF74	1SFh2	1SF60	1Fh4	l l b
RsRqAum	4- 1	27274F2-	2JS- 2F6h	2772- FS0	2701- F- 2	1F- 4	l l b
RsRqAum	44 1	2J60SF0-	2JJ- 6FJ-	- S1SJF27	2JJShF6h	SF04	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	4SF62	- 6FJ1	- - F71	- 0F12	JF1J	l l b
RobsR&	hJ 2	16F0-	1hF41	1- F62	1hF2h	1SF26	l l b
Rol l er	6- 2	177F- -	102F6h	1h6F47	102F4J	JF2-	l l b
t %wl rowAum	1h6 1						ql w
t %wl rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16h 1				112		G
y oFmAum	16h 2				1S0		G
DrOAum	11h 1				112		G
DrOAum	11h 2				1S1		G
Don	h4 2	hJ424F42	h- 044F22	4746JF1S	h- 70JF2h	1SF10	l l b
Don	h6 2	h760hF7S	h4SS- F- 4	474JJFS4	h- 026FS6	JF47	l l b
Don	h0 2	hJ4h1F- S	h40- SF21	47714FJS	h4- - 2F14	JF71	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	10JJF72	10J2F44	1004F4J	1077FJ2	SF0-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	102- Fh0	10hSF01	1064F-4	1046F21	1F1J	l l b
LesO	2S7 1	1007F60	1004FJ2	107hFS-	100JFh4	SF2J	l l b
LA&EAum	6 1				1S4		G
MsgnewAum	24 2	141h0FJS	1200SFh-	11- h7F42	12062F27	1SFJ0	l l b
Msngsnewe	hh 2	222hF-S	2S4SFh2	171- FSh	2S26F2J	1SF1J	l l b
MoP%bOenum	J4 1	JFhS	JF2J	JFS1	JF20	2F61	l l b
MoP%bOenum	Jh 1	hF46	hF26	hF-2	hF-h	1F70	l l b
MoP%bOenum	J6 1	hF71	6FS7	hF71	hFJS	2F61	l l b
MoP%bOenum	J0 1	hF4h	hF6h	hF02	hF61	2F4J	l l b
MoP%bOenum	J7 1	hF46	hF44	hF-7	hF4-	SF6J	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 0F14	- - F62	27FJh	- - F2-	12F-6	l l b
8 EowI Eoruw	- 1 2	- 16SF- -	- 147F42	2066F00	- S2hF10	0F4S	l l b
8 o&swwAum	- J 2	1S221FS4	J21JF66	7- 21F22	J2h- FJ0	1SF20	l l b
5 EoOAum	1S- 1				1SJ		G
5 EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				JJ		G
pe?enAum	72 1	1F6J	2FSh	1F-1	1F67	21F74	l l b
pe?enAum	00 2	6hF41	hhF72	h- FSJ	h7F1S	11F14	l l b
pe?enAum	07 2	12FJJ	JFJh	11F14	11F-6	1- F40	l l b
pAAqon	27 1	1hJF2S	16hF17	16- F00	162F02	1FJ2	l l b
pA?er	1S0 1	JFJ7	1SF1h	1SF61	1SF24	- F2S	l l b
pA?er	1SJ 1	1SF21	1SFhS	JF7-	1SF17	- F-S	l l b
poOAum	2- 2	7h1Fh4	0h7Fh6	672F1-	064FS7	11F1S	l l b
p&on&Aum	76 1	17hF7-	177F04	17hF44	176F60	SFJ0	l l b
p&on&Aum	77 1	1J7F1J	1JhFS-	1J6Fh0	1J6F6S	SF7S	l l b
pulPur	- 4 1	220- FJ7	26J6F-4	264SF47	2h- 6FJ4	JFS4	l l b
i erbAum	1hJ 1				11-		G
i erbAum	1hJ 2				1S6		G
i EsPAum	2S- 1	SFh0	SFh2	SFh0	SFhh	4Fh4	l l b
i EsPAum	2Sh 1	SFh6	SFh7	SFh0	SFh0	2F1S	l l b
i A	117 1	JFJ-	1SFhh	1SF17	1SF22	- FS7	l l b
i A&snAum	40 1	hS4FSJ	h12F-S	h1- F-J	hSJFJ-	1FSS	l l b
UrsnAum	2- 7 1	4FSJ	4FS4	4F1S	4FS7	SF06	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	07F66	01F72	6hF46	01FJ7	JF10	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				11-		G
ZAnq	66 2	2S1JF7J	174hF20	1664FS-	174- FS6	JF6h	l l b
ZAqonAum	JS 1	2F76	2F0-	2F01	2F00	2F7-	l l b
ZAqonAum	J1 1	2F06	2F7h	2F06	2F0J	1F76	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 0-	t Ar&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
cRmAmAm	20 2	1h- : 2F27	1h- 67F12	1h- 2SFS:	1h- 6SF16	SF24	l l b
cn&mon%	121 1	- F- 7	- F- :	- F26	- F- 4	2F2S	l l b
crwenAq	0h 2	: 7F67	: 4F61	1SSF44	: 0F. 1	- FS6	l l b
BsrAm	1- h 1	44: FSh	4h2F. :	44: F47	4hSFh1	SF47	l l b
BsrAm	1- 0 1	4h4F60	4h0F7S	4h1F. 4	4h4F71	SF6h	l l b
Ber%BAm	: 1	2F2:	2F27	2F2h	2F20	SF71	l l b
BAmu&E	2S: 1				111		G
BAmu&E	2S: 2				1S6		G
BromAne	71 1						ql w
RsOmAm	1S7 1	1- F67	1hF77	14F02	14F06	0F4h	l l b
RsOmAm	1S6 1	7F11	11F1:	1SFSS	: F06	1hF. 2	l l b
RsOmAm	111 1	16F41	16F- :	1hF. 6	16F2h	1Fhh	l l b
RsRqAm	4- 1	1h74SF0h	1h0- : Fhh	1h: : SF6S	1h7h6F. 0	SF7S	l l b
RsRqAm	44 1	16461Fh1	16- 1hF. 4	102- 7F1h	16601F70	2F. 0	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAm	h2 2	24F- h	24F40	24F66	24F4:	SF62	l l b
RobsR&	h: 2	11F70	11F60	11F7-	11F0:	SF. S	l l b
RoI I er	6- 2	14hF47	146F2S	140FS2	146F2-	SFh-	l l b
t %wI rowAm	1h6 1						ql w
t %wI rowAm	1h6 2						ql w
CrbAm	164 1						ql w
CrbAm	164 2						ql w
HsOoFhAm	16S 1						ql w
HsOoFhAm	16S 2						ql w
y oFmAm	16h 1				112		G
y oFmAm	16h 2				1S6		G
DrOAm	11h 1				111		G
DrOAm	11h 2				1SS		G
Don	h4 2	4- S76F- 4	42: - 0F7:	4274- F76	42: h6FS-	SF27	l l b
Don	h6 2	42621F4-	42216F1-	42h- 7F21	424h7Fh:	SFhS	l l b
Don	h0 2	- : 676F- 0	42: 04F11	- : - 4- F0-	4S667FS0	4F. -	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	706F- h	777FS:	777F04	774F- :	SF0:	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenA&psml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
LesO	2S0 1	744F60	701F46	760F-1	761F14	1F60	l l b
LesO	2S7 1	7h0F0h	77SF00	704F.1	701F14	1F-0	l l b
LA&EAum	6 1				1Sh		G
MsgnewAum	24 2	021hF7-	0116F27	0247F11	01: - F4S	SF.6	l l b
Msngsnewe	hh 2	1062F7:	1h07F.4	1027F11	167: F.7	hF07	l l b
MoP%bOenum	: 4 1	: F.S	: F61	: F.0	: F7-	1F.1	l l b
MoP%bOenum	: h 1	hF.0	6FS2	6FS-	6FS1	SFh2	l l b
MoP%bOenum	: 6 1	6F-2	6F6:	6F61	6Fh4	2F.6	l l b
MoP%bOenum	: 0 1	6F6:	6F26	6F17	6F-0	4F2:	l l b
MoP%bOenum	: 7 1	6FS4	6F2:	6F1h	6F16	2FS2	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	26F26	26FSh	26F11	26F14	SF41	l l b
8EowI Eoruw	- 1 2	1- 4- F20	14- 2F2S	1h47FS4	1441F10	0F12	l l b
8o&swwAum	- : 2	hhS1F17	h- 04FS4	h416F.0	h4- SF0-	1F1:	l l b
5EoOAum	1S- 1				1S:		G
5EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				11S		G
pqsnOAum	4h 2				: :		G
pe?enAum	72 1	1F17	SF76	1F1h	1FS0	16F47	l l b
pe?enAum	00 2	hSFS0	41F77	42F.S	44F.h	: F.-	l l b
pe?enAum	07 2	7F.2	0F76	0F40	7FS7	: F-4	l l b
pAAqon	27 1	1- hF66	1- 0F76	1- 7F47	1- 0F- -	1FS7	l l b
pA?er	1S0 1	hFS2	hF21	hF- -	hF1:	- FS-	l l b
pA?er	1S: 1	hF16	hF2h	hF11	hF10	1F-:	l l b
poOAum	2- 2	71- F1S	7S0FS1	71hFS0	711F0-	SFh2	l l b
p&on&Aum	76 1	101FS:	167F77	10- F-4	101F1S	1F-1	l l b
p&on&Aum	77 1	171F0:	17- F.S	172F0S	172F7S	SFh7	l l b
pu?ur	- 4 1	7SF.S	- : 1F2S	hhF-6	10hF72		l l b
i erbAum	1h: 1				112		G
i erbAum	1h: 2				1Sh		G
i EsPAum	2S- 1	SF4-	SF44	SF40	SF4h	4F.1	l l b
i EsPAum	2Sh 1	SF44	SF4-	SF42	SF4-	2F66	l l b
i A	117 1	6Fh1	6F7:	6FhS	6F6-	- F-0	l l b
i A&snAum	40 1	4S1F6-	41SF42	41SFh:	4S0Fhh	1F26	l l b
UrsnAum	2- 7 1	- F6S	- F6-	- F01	- F64	1F4:	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J22J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	02F:	0- F46	0- F- :	0- F27	SF- 4	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7: 1				116		G
Y&&Aum	7: 2				1S:		G
ZAnq	66 2	224- F00	22- 7F46	2262F2:	2247F17	SFh6	l l b
ZAqonAum	: S 1	2F04	2F6h	2F7:	2F06	4F- 1	l l b
ZAqonAum	: 1 1	2F00	2Fh7	2F7:	2F0h	hF6-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t AR&n5:. sq&ar:J	1
t s&e:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CC

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5&w
cRmA5Aum	20 2	M112MCy6	M1y66C46	MSSy4C12	M1S62C19	1C94	l l b
c5&mn5h	121 1	4y1C9y	MS1C69	MS1C16	4y9C24	1C11	l l b
crwe5Aq	0M2	M27CM6	M70Cy1	M7SCS9	M7SCM2	1C7M	l l b
BsrAum	17M1	2461C90	240yC9S	2M1yC40	2490CSM	1C1y	l l b
BsrAum	170 1	27ySCS7	2462C7y	2MS7C1S	24M1C94	2C74	l l b
BerhRAum	y 1	460CC1	460C19	469CSy	460C66	SC1S	l l b
BAumu&%	2Sy 1				y6		E
BAumu&%	2Sy 2				9y		E
BrnmA5e	91 1						ql w
3 sOmAum	1S9 1	49MCy9	4y6C40	4y0C69	4y7C79	1C7S	l l b
3 sOmAum	1S6 1	46yC9M	490Cy0	496C16	491C77	2CS0	l l b
3 sOmAum	111 1	40SCS9	4y1C97	490Cy	497C24	2C7y	l l b
3 sRqAum	47 1	27M217C62	244MS0Cy2	24M607C72	2410y9C2y	2C70	l l b
3 sRqAum	44 1	271999Cy2	24S020C16	27979yCS9	270SS1C02	1Cy7	l l b
3 srbn5	12 1						ql w
3 srbn5	12 2						ql w
3 %nrA5e	7M1						ql w
3 %nrA5e	7M2						ql w
3 %nmAum	M2 2	497C17	4y1C22	496Cy2	490CSy	SC97	l l b
3 nbsR&	My 2	496C7M	4ySC74	49yC17	499C61	SC42	l l b
3 nl l er	67 2	MSSSC90	MS6MC70	MS2MC1y	MS7SC40	SC6M	l l b
t hwl rnwAum	1M6 1						ql w
t hwl rnwAum	1M6 2						ql w
GrbAum	164 1						ql w
GrbAum	164 2						ql w
HsOnR5Aum	16S 1						ql w
HsOnR5Aum	16S 2						ql w
KnRmAum	16M1				1S4		E
KnRmAum	16M2				yM		E
D5OAum	11M1				y0		E
D5OAum	11M2				9M		E
Dn5	M4 2	1202270M0	171y1SCSM	129Sy7CS0	12yS0MCM6	1Cy7	l l b
Dn5	M6 2	12y279C14	17S74SCMM	12096MCS4	12y140Cy1	SCy6	l l b
Dn5	M0 2	12yy97C67	17SS12C9M	171606C07	17SMM0C04	SC04	l l b
krhl &a5	97 1						ql w
LesO	2S6 1	2462C79	24y6C2y	2MSyCy9	249yCMM	SCy9	l l b

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Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5&w
LesO	2S0 1	2479C1S	2490C6y	2462C40	2462C06	1CS1	l l b
LesO	2S9 1	24M5CSS	2497CS1	24y40My	240MC96	SCy7	l l b
LA&%Aum	6 1				99		E
g sv5ewAum	24 2	2M60000C60	2M00040Cy1	26S2926CS	2M9209C7y	SC0S	l l b
g s5vs5ewe	MM2	M19SC2S	M2940CyS	M19yC64	M219C2M	1C11	l l b
g nPbOe5um	y4 1	400yC6y	4y06C26	4y70C69	49y0C99	2C17	l l b
g nPbOe5um	yM1	49MyC2S	4yy9C42	49y6Cy9	4y19C2S	1C46	l l b
g nPbOe5um	y6 1	409SC69	M5ySC7y	497SC66	4ySS0M9	7C7y	l l b
g nPbOe5um	y0 1	4096C74	M5000M2	49MMC06	4yS60M4	7C1S	l l b
g nPbOe5um	y9 1	409S0M0	4y41CSM	4y72C6y	4994C00	1C9M	l l b
NenOhmAum	1M5 1						ql w
NenOhmAum	1M5 2						ql w
NAqf eP	6S 2	4y2Cyy	M570M6	4yyC74	4y9C67	1CS0	l l b
8 %nwl %nruw	71 2	yy64C49	1S140CSM	y9yyCMy	1SSS7C01	1C29	l l b
8 n&swwAum	7y 2	12yM14C7S	17S2M5CSS	129297C19	12y74yC16	SC00	l l b
U%nOAum	1S7 1				y7		E
U%nOAum	1S7 2				96		E
pqs5OAum	4M1				y6		E
pqs5OAum	4M2				94		E
pe Re5Aum	92 1	4M90My	407C47	404C41	469C91	1C9y	l l b
pe Re5Aum	00 2	M67C19	M4yCy2	M7yCM4	MM5C99	2C1M	l l b
pe Re5Aum	09 2	M16C19	M24C4y	M2SC1S	M2SC26	SC9S	l l b
pARqn5	29 1	M51C27	M12C0M	M10CM5	M1SC4y	1C64	l l b
pARer	1S0 1	466CSM	4yMCMM	407CS4	409C21	7C22	l l b
pARer	1Sy 1	407CS6	494C14	490C42	491CM4	1CM6	l l b
pnOAum	27 2	2Myy72C7M	26202SC19	2699120CM7	267921C6y	1C02	l l b
p&n5&Aum	96 1	12102CS2	1224MC67	12241C2y	1221yC6M	SC74	l l b
p&n5&Aum	99 1	11y4yCyy	1212yC42	12724CM7	12174C6M	1CM4	l l b
pu PVur	74 1	90020My	y269C20	yMM2CS9	y1y0C6M	4C2y	l l b
i erbAum	1My 1				1S7		E
i erbAum	1My 2				y4		E
i %s PAum	2S7 1	M5MCy6	M12C01	M12CyS	M1SCM2	SC00	l l b
i %s PAum	2SM1	4y1CSS	M51CS1	M5SC21	4y0C4S	1C12	l l b
i A5	119 1	499C01	M52Cy1	49yCy0	4y7C96	1CMy	l l b
i A&5Aum	40 1	4940Cyy	4y1yC17	4y41C27	4yS2C09	SCyy	l l b
Frs5Aum	279 1	492CCM	49MCMM	4y0CM5	499C6S	1C6S	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:c qduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5A&w
- s5sOAum	M1 2	M21Cy0	M22C24	M10C47	M2SC3M	SC3M2	I I b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	9y 1				y9		E
Y&&Aum	9y 2				96		E
ZA5q	66 2	4912C7M	4y11Cy4	4y12CSM	4909CC9	1C19	I I b
ZAqn5Aum	yS 1	40SC64	4y7C67	494C76	492C99	2C4S	I I b
ZAqn5Aum	y1 1	4MMC7M	40MCCS	466C61	46MC9y	2C1y	I I b

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Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
AlNu iniNu	2072	- GSS	1C06	2C42	2G M	2yC0	ppm
Antiu onh	12171	SC1y	SC1M	SC2-	SC1M	21C14	ppm
Aesbnic	0y72	SGS6	SGS4	SGSM	SGS6	- 6C4M	ppm
BaeiNu	1- y71	SGS:	SGS:	SGSS	SGS6	: 1G 1	ppm
BaeiNu	1- 071	SC1S	SGS0	SGS2	SGS6	62GS2	ppm
BbehlliNu	M71	SGS0	SGS6	SGS4	SGS6	24C04	ppm
Bisu Nt%	2SM71				1Sy		E
Bisu Nt%	2SM72				M		E
Beou inb	: 171						cps
3 adu iNu	1S: 71	7SGS6	SC2M	7SGS2	SGS0	204C06	ppm
3 adu iNu	1S671	7yC :	76GS1	72C06	74C0y		ppm
3 adu iNu	11171	SGSS	SGS1	SGS4	SGS2	1S: C -	ppm
3 alciNu	4- 71	0C0:	0C1 :	2C40	yC 1	ySC1S	ppm
3 alciNu	4471	yyG S	y- C 4	y- C0y	y4G S	1G6S	ppm
3 aemon	1271						cps
3 aemon	1272						cps
3 %oeinb	- y71						cps
3 %oeinb	- y72						cps
3 %eou iNu	y272	SGS6	SGS6	SGS:	SGS0	2SG64	ppm
3 omalt	yM72	SGS-	SGS2	SGS2	SGS2	24GSy	ppm
3 oppbe	6- 72	SC0M	SC y	SC0y	SC 6	1- C 1	ppm
DhspeosiNu	1y671						cps
DhspeosiNu	1y672						cps
5 emiNu	16471						cps
5 emiNu	16472						cps
GadoliniNu	16S71						cps
GadoliniNu	16S72						cps
Holu iNu	16y71				1Sy		E
Holu iNu	16y72				M		E
IndiNu	11y71				1S4		E
IndiNu	11y72				M-		E
Ieon	y472	: Gy0	0GS2	yG 2	6C0	2- G M	ppm
Ieon	y672	0C10	6C01	4C4y	6C1	2- C 1	ppm
Ieon	y072	1SGy:	6Gy2	6C0y	: GS2	20C -	ppm
Kehpton	: - 71						cps
Lbad	2S671	SC1M	SC1:	SC14	SC10	1yC2S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
Lbad	2S071	SC1M	SC1:	SC1y	SC10	12G M	ppm
Lbad	2S: 71	SC2S	SC1:	SC14	SC10	10C4S	ppm
Lit%iNu	671				M-		E
g avnbsiNu	2472	21C0-	11C12	: CS6	1- C64	y2C6-	ppm
g anvanbsb	yy72	SC1M	SG 2	SC21	SC24	2: G -	ppm
g olhmdbnNu	M471	SC4M	SC4-	SC2M	SC4S	24Cy	ppm
g olhmdbnNu	My71	SG :	SC42	SC2M	SG 6	10C00	ppm
g olhmdbnNu	M671	SC46	SG y	SC26	SG 6	20Cy	ppm
g olhmdbnNu	M071	SC46	SG 0	SC24	SG 6	- SC0S	ppm
g olhmdbnNu	M 71	SC4y	SG 6	SC26	SG 6	26Cyy	ppm
8 bodhu iNu	1yS71						cps
8 bodhu iNu	1yS72						cps
8 ickbl	6S72	SCS0	SC1S	SCS0	SCS:	22G M	ppm
P%osp%oeNs	- 172	70MC4-	700Cy2	741C62	766C1M		ppm
PotassiNu	- M72	1S6C4-	6: C6-	y0C1-	00C4S	- - G -	ppm
U%odiNu	1S- 71				1S-		E
U%odiNu	1S- 72				M0		E
r candiNu	4y71				1S1		E
r candiNu	4y72				: :		E
r blbniNu	: 271	SCS-	7SG S	7SC16	7SC14		ppm
r blbniNu	0072	7SG :	7SG :	7SG :	7SG :		ppm
r blbniNu	0: 72	SC06	7SC1M	SC0M6	SCy1	121CSy	ppm
r ilicon	2: 71	SC2:	SC21	SC2S	SC2-	1MCS-	ppm
r ilRbe	1S071	SCS4	SCS4	SCS-	SCS4	1MC4:	ppm
r ilRbe	1SM71	SCS-	SCSy	SCS1	SCS-	y: C21	ppm
r odiNu	2- 72	2S0Cy2	1yyG -	1- 4C4-	16yC06	22C01	ppm
r teontiNu	: 671	SCy1	SC4S	SC14	SG y	y- CyM	ppm
r teontiNu	: : 71	SCy1	SG y	SC1:	SG 4	40C00	ppm
r NifNe	- 471	70- yC41	7- 1yC2M	72M6Cy4	744MCS:		ppm
TbemiNu	1yM71				1Sy		E
TbemiNu	1yM72				M6		E
T%alliNu	2S- 71	SC21	SC1:	SC16	SC1:	1- C04	ppm
T%alliNu	2Sy71	SC21	SC1:	SC10	SC1M	MG 1	ppm
Tin	11: 71	7SCS0	7SCS-	7SCS1	7SCS4		ppm
TitaniNu	4071	SC1-	SC12	SCSy	SC1S	42C22	ppm
FeaniNu	2- : 71	SCS2	SCS1	SCS1	SCS1	16G M	ppm

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LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
VanadiNu	y172	SGS2	SGS2	SGS1	SGS2	- : G 6	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	: M71				1S-		E
YtteiNu	: M72				M2		E
Zinc	6672	SG62	SGyS	SG 0	SGyS	2y0M2	ppm
ZieconiNu	MS71	SGS1	SGSS	SGSS	SGS1	M4 G2-	ppm
ZieconiNu	M171	SGS2	7SGS1	7SGS1	SGSS	166- 2G1:	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 04	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	2J0- - F77	240- 4FJ2	27J21F44	26- 2hFhJ	0F4J	l l b
cn&mon%	121 1	SF6-	SF0S	SF01	SF67	6F72	l l b
crwenAq	0J 2	6F- 1	6F24	0F66	6F04	11F70	l l b
BsrAum	1- J 1	J17F- 7	JS1F12	4h- F- h	JS4F2h	2FJ4	l l b
BsrAum	1- 0 1	J2hF- h	JShF6h	JSJFS-	J14F0S	2FJ1	l l b
Ber%BAum	h 1	1FhJ	1F7h	1F7-	1F7h	- F- h	l l b
BAumu&E	2Sh 1				1S6		G
BAumu&E	2Sh 2				114		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F0h	1FJS	1F- J	1FJJ	14F- 4	l l b
RsOmAum	1S6 1	SF20	SFJS	SFh4	SFJ0		l l b
RsOmAum	111 1	SFhJ	1FS6	SFhJ	SFhh	6FJh	l l b
RsRqAum	4- 1	17hhJFhJ	1724- F47	171ShF- 7	1744hF6S	2FJh	l l b
RsRqAum	44 1	1h- hSFhJ	1h2SJF7-	1h22SF1J	1h202F- 1	SFJ-	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	16F- 2	1JF1J	10F2h	16F2J	6F6S	l l b
RobsR&	Jh 2	1SF74	1SF1J	11F6-	1SF77	6F7S	l l b
Rol l er	6- 2	- 2F- 0	2hF02	- - F4S	- 1F7-	JFh6	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				1S7		G
y oPmAum	16J 2				116		G
DrOAum	11J 1				1SJ		G
DrOAum	11J 2				1S0		G
Don	J4 2	272h6Fh0	266h1FhS	- S- 71F02	274J6F76	6FJS	l l b
Don	J6 2	2700hFJ2	20204FJS	- S6h6F7h	27h16Fh0	JFh-	l l b
Don	J0 2	2667JF21	24070F67	27620F77	260SSF2J	0F1h	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	42F16	41F7J	41Fh-	41Fh7	SF- h	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 04	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	- hF61	- hF76	- hF7h	- hF0h	SF- h	l l b
LesO	2S7 1	41FSh	4SF64	4SF71	4SF74	SFJ6	l l b
LA&EAum	6 1				h6		G
MsgnewAum	24 2	JSh7F60	4717F62	JJ6hF10	J162F16	0F- J	l l b
Msngsnewe	JJ 2	6S2F04	J0- F42	6J- F- 0	6ShF74	6F6-	l l b
MoP%bOenum	h4 1	hF71	hF17	hF- 4	hF44	- F46	l l b
MoP%bOenum	hJ 1	1F42	1F4S	1F4J	1F42	1F0-	l l b
MoP%bOenum	h6 1	2F- 6	2F21	2F17	2F2J	4F- h	l l b
MoP%bOenum	h0 1	1F- h	1F20	1F2h	1F- 2	4F6S	l l b
MoP%bOenum	h7 1	1F4J	1F42	1F- h	1F42	2F1-	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1- FS-	12FJ6	1- F64	1- FS7	4F1J	l l b
8 EowI Eoruw	- 1 2	1602FhJ	16J6FJ6	2SS1FS2	1006F74	1SFh4	l l b
8 o&swwAum	- h 2	6SS6Fh0	J06JF06	6J02F70	611JF2S	6F00	l l b
5 EoOAum	1S- 1				1S-		G
5 EoOAum	1S- 2				111		G
pqsnOAum	4J 1				1S2		G
pqsnOAum	4J 2				1S4		G
pe?enAum	72 1	SFhh	SFhJ	1FS4	SFhh	4F- -	l l b
pe?enAum	00 2	24F20	- SF00	- 2Fh-	2hF- 2	1JF- 0	l l b
pe?enAum	07 2	0FS0	4F6J	0F42	6F- 7	2- F64	l l b
pAAqon	27 1	14hF11	14- FJ6	14SFJh	144F42	2Fhh	l l b
pA?er	1S0 1	SF24	SF21	SF22	SF22	0F2-	l l b
pA?er	1Sh 1	SF2-	SF2-	SF21	SF2-	JF77	l l b
poOAum	2- 2	J4SF12	4- 7F27	J14F02	4h0F01	1SF6J	l l b
p&on&Aum	76 1	J- 0FJ6	J14F- 1	J12F6-	J21FJS	2F60	l l b
p&on&Aum	77 1	JJJF7-	J4JF- S	J- 2F44	J44FJ2	2F1J	l l b
pu?ur	- 4 1	4JhF- S	17JF10	J26F20	74FSJ		l l b
i erbAum	1Jh 1				1S0		G
i erbAum	1Jh 2				11-		G
i EsPAum	2S- 1	SFJ7	SFJ7	SF61	SFJh	2Fh0	l l b
i EsPAum	2SJ 1	SFJ6	SFJ0	SFJ4	SFJ6	2F47	l l b
i A	117 1	1F4J	1F- 0	1F4h	1F44	4F- J	l l b
i A&snAum	40 1	hSF62	7JFJ4	74Fhh	70FSJ	- FJ0	l l b
UrsnAum	2- 7 1	2F- J	2F- 2	2F- 6	2F- 4	SF74	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 04	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	J1FJ4	47F70	JJF42	J1Fh4	6F- 4	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S7		G
Y&&Aum	7h 2				121		G
ZAnq	66 2	2S4FJS	1h2F16	216F- h	2S4F- J	JFh-	l l b
ZAqonAum	hS 1	4Fh-	4F0J	4F6S	4F06	- F4h	l l b
ZAqonAum	h1 1	4F7S	4F4h	4F07	4F6h	- F60	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0J	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1J670F07	10J4hF44	10JS1F1J	16h12F0h	6F20	l l b
cn&mon%	121 1	SF44	SFJ-	SF61	SFJ2	1JF76	l l b
crwenAq	0J 2	7F1S	7Fh-	7F-2	7F4J	JF12	l l b
BsrAum	1- J 1	- J0F16	- 02FJ7	- 66Fh2	- 6JFJ6	2F1-	l l b
BsrAum	1- 0 1	- 66F21	- 0- F1S	- 01Fh6	- 0SF42	1FSS	l l b
Ber%BAum	h 1	1FJ1	1F61	1F4h	1FJ4	4F17	l l b
BAumu&E	2Sh 1				1S7		G
BAumu&E	2Sh 2				1S7		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1FS7	SF72	1F2S	1FS-	17F4S	l l b
RsOmAum	1S6 1	1F20	2F61	2F0-	2F2S		l l b
RsOmAum	111 1	SFJ-	SFJ4	SF47	SFJ2	6FS4	l l b
RsRqAum	4- 1	hJ27F1S	hhh7F1h	h6- SF67	h017Fhh	2FJ4	l l b
RsRqAum	44 1	1S22hF26	1S2h1F7h	1SS77F02	1S2S- F2h	1FS2	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	1JFJh	10F4S	10F1-	16F01	JF74	l l b
RobsR&	Jh 2	7F71	hFh2	hF04	hF4h	6F27	l l b
Rol l er	6- 2	22FS0	2JFS-	2JFS2	24FS4	0F11	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16J 1				1Sh		G
y oFnAum	16J 2				112		G
DrOAum	11J 1				1S7		G
DrOAum	11J 2				1SJ		G
Don	J4 2	- 1471F11	- 4h66F1S	- J021F76	- 4SJ6F-6	6F64	l l b
Don	J6 2	- Sh- 2FJ7	- 47- - FhS	- 46S6F16	- - 4J0FJJ	6FJ4	l l b
Don	J0 2	2hS20F26	- 2241F10	- 2204F70	- 1171F1S	JFh7	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	- 4Fhh	- JF0J	- JF0-	- JF4h	1F22	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
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RAen&psml Re:D :9	My S. 0J	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	- - F17	- - Fh7	- - F72	- - F66	1F2J	l l b
LesO	2S7 1	- 4F2h	- 4Fh0	- 4F02	- 4F66	SFh7	l l b
LAEAum	6 1				h0		G
MsgnewAum	24 2	- 0h6FSh	42J4F- S	41h7F4h	4S72Fh6	6F12	l l b
Msngsnewe	JJ 2	62SF16	67hF0-	6h6F1h	667F6h	6F- S	l l b
MoP%bOenum	h4 1	JFJS	JF0J	JF00	JF67	2F67	l l b
MoP%bOenum	hJ 1	1F- 1	1F44	1F- S	1F- J	JFhJ	l l b
MoP%bOenum	h6 1	1F74	1Fh1	1F74	1F76	2F1J	l l b
MoP%bOenum	h0 1	1F47	1F- 0	1F4J	1F4-	4FS1	l l b
MoP%bOenum	h7 1	1F44	1F- S	1F- 7	1F- 0	4F7h	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1- Fh0	1JF7J	1JFJ4	1JF12	6F64	l l b
8 EowI Eoruw	- 1 2	1- - 6F- -	1J2JF7J	14JSF2S	14- 0F46	6F64	l l b
8 o&swwAum	- h 2	4711FS2	J- - 0F74	J- 2hF21	J 1JhF- 6	JF7J	l l b
5 EoOAum	1S- 1				1S0		G
5 EoOAum	1S- 2				112		G
pqsnOAum	4J 1				1S6		G
pqsnOAum	4J 2				1S2		G
pe?enAum	72 1	1FS1	1FS7	1FS4	1FS4	- F02	l l b
pe?enAum	00 2	- hF76	- JF07	- 7F20	- 0Fh0	JF42	l l b
pe?enAum	07 2	0F2-	6F6h	0F70	0F26	7F16	l l b
pAAqon	27 1	1- hF4-	142F60	14SF7h	141FSS	1F1J	l l b
pA?er	1S0 1	SF14	SF1-	SF1J	SF14	6F01	l l b
pA?er	1Sh 1	SF1-	SF14	SF14	SF14	6F2J	l l b
poOAum	2- 2	12JF24	14JF76	141F- h	1- 0FJS	0F7h	l l b
p&on&Aum	76 1	211F76	211F16	21JF1S	212F01	SFhh	l l b
p&on&Aum	77 1	224F6J	226F21	22hF76	226Fh1	1F17	l l b
pu?ur	- 4 1	1S2hF67	hShF- 6	1S40F40	hhJFJS		l l b
i erbAum	1Jh 1				1Sh		G
i erbAum	1Jh 2				111		G
i EsPAum	2S- 1	SF4S	SF4S	SF4J	SF42	6Fhh	l l b
i EsPAum	2SJ 1	SF- h	SF4J	SF4-	SF42	0F6h	l l b
i An	117 1	1F44	1FJ4	1FJ7	1FJ2	4F0S	l l b
i A&snAum	40 1	22hF4-	2- 7Fh2	2- - F2h	2- - F77	2FS4	l l b
UrsnAum	2- 7 1	1F0h	1F07	1F71	1F0h	SF0S	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0J	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	JSF46	JJFJ1	JJF77	J- FhJ	JF61	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11-		G
Y&&Aum	7h 2				12S		G
ZAnq	66 2	14hFSS	16JF20	160F02	16SF66	6F- -	l l b
ZAqonAum	hS 1	2FJ7	2FJ-	2F6-	2FJ7	1Fh7	l l b
ZAqonAum	h1 1	2FJ2	2FJh	2F44	2FJ2	- FS1	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 06	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	2J- h6F4J	24741FJ0	2Jh7JFSS	2J4S0F60	2F2J	l l b
cn&mon%	121 1	SF- 6	SFJ1	SF41	SF4-	10F2S	l l b
crwenAq	0J 2	0F22	0F2J	0F- 2	0F26	SF0-	l l b
BsrAum	1- J 1	- 0- F2J	477F71	- 72FJh	414F77	1JF40	l l b
BsrAum	1- 0 1	- 67FhS	4hhF00	- 76F04	417F40	16Fh6	l l b
Ber%BAum	h 1	1F77	2F4J	2FS2	2F12	14F26	l l b
BAumu&E	2Sh 1				1S1		G
BAumu&E	2Sh 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1FS0	1FJJ	1F0S	1F44	22Fh0	l l b
RsOmAum	1S6 1	1F24	2F04	1FS4	SF7J		l l b
RsOmAum	111 1	SF7J	1FS4	SF0S	SF76	1hF4-	l l b
RsRqAum	4- 1	16114F0S	2S0- JF4S	16262FS6	100S4FS6	14F7-	l l b
RsRqAum	44 1	16h1JFJh	21161F0S	10140F4S	174S7F2-	12Fh0	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	16F06	16FSS	16F60	16F47	2FJ-	l l b
RobsR&	Jh 2	14F24	1- F0J	14FJS	14F16	2F60	l l b
Rol l er	6- 2	- - F1S	- 2F24	- 2F7-	- 2F02	1F- J	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16J 1				1S2		G
y oFnAum	16J 2				1S6		G
DnOAum	11J 1				1S1		G
DnOAum	11J 2				1S2		G
Don	J4 2	- 2146F20	- S10hF10	- 246SF4J	- 1JhJF- S	- Fh1	l l b
Don	J6 2	- 112hF11	- S470F0h	- 1671F61	- 1ShhFJS	1Fh2	l l b
Don	J0 2	27h02F41	27- hhF1-	2h274F4S	2777JF- 1	1FJJ	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	- 4F47	4- F42	- - F7-	- 0F24	14F- h	l l b

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RAen&psml Re:D :9	My S. 06	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	- - F1S	41F04	- 1Fh7	- JF61	14Fhh	l l b
LesO	2S7 1	- - F22	42F46	- - FSS	- 6F2-	14Fh1	l l b
LAEAum	6 1				h-		G
MsgnewAum	24 2	J- 70F20	J21- F1-	JJ16FSS	J- 02F1-	2F7-	l l b
Msngsnewe	JJ 2	762F61	74- F70	76JFS1	7J0F16	1F- J	l l b
MoP%bOenum	h4 1	7F01	11F4S	hF- 1	hF71	14F41	l l b
MoP%bOenum	hJ 1	SFh6	1F- 2	1FSS	1FSh	10F71	l l b
MoP%bOenum	h6 1	1F00	2F4-	1Fh7	2FS6	16FJS	l l b
MoP%bOenum	h0 1	SFh-	1F- 6	1FS0	1F12	1hF6h	l l b
MoP%bOenum	h7 1	1FSS	1F- S	1FS7	1F1-	14FS2	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1JFS0	1JF17	14Fh4	1JFS6	SF71	l l b
8EowI Eoruw	- 1 2	h6- F11	120JFJ0	116hF74	11- 6F10	1- Fhh	l l b
8o&swwAum	- h 2	4024Fh6	46S0F22	4726F1S	401hF42	2F- 2	l l b
5EoOAum	1S- 1				1S1		G
5EoOAum	1S- 2				1S6		G
pqsnOAum	4J 1				1S2		G
pqsnOAum	4J 2				h7		G
pefenAum	72 1	SFJ7	1F2-	SF0J	SF76	- hF61	l l b
pefenAum	00 2	2JFSS	- hF6h	2SF7-	27FJ1	- 4F04	l l b
pefenAum	07 2	0F66	6F07	0F- 4	0F26	6F1J	l l b
pAqon	27 1	1J6Fh2	1hhF27	162FS-	102F04	1- F- 7	l l b
pAver	1S0 1	SF16	SF24	SF22	SF21	17Fh4	l l b
pAver	1Sh 1	SF2S	SF26	SF10	SF21	2SF26	l l b
poOAum	2- 2	6J0F- 4	6JhF76	6h2F47	66hFhS	2Fh-	l l b
p&ona&Aum	76 1	- 0- F4h	47JF7-	- 7SFJ0	41- F- S	1JF22	l l b
p&ona&Aum	77 1	- h6FSS	JShF- J	- hhFS6	4- 4F7S	14F7J	l l b
pufPur	- 4 1	16- SF06	hJJFJ7	14- 1F01	0S2F- S		l l b
i erbAum	1Jh 1				1S4		G
i erbAum	1Jh 2				1SJ		G
i EsPAum	2S- 1	SF4-	SFJ0	SF41	SF40	17F04	l l b
i EsPAum	2SJ 1	SF44	SFJ4	SF46	SF47	1SFhS	l l b
i An	117 1	1F7-	2F4J	1F70	2FSJ	16F0h	l l b
i A&snAum	40 1	64F62	07F41	6- F11	67F02	12F20	l l b
UrsnAum	2- 7 1	2F21	2F7h	2F2S	2F4-	16F- 2	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 06	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	6SF61	6SFh6	6- F-4	61F64	2F41	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S0		G
Y&&Aum	7h 2				11-		G
ZAnq	66 2	16SF07	1J6FSJ	162FJJ	1JhF0h	2F1S	l l b
ZAqonAum	hS 1	4FJ0	6FS6	4F0-	JF12	16FS-	l l b
ZAqonAum	h1 1	4FJS	6F1S	4FJ7	JFS6	10F7-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 66BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12-CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	7F72	1F28	1F 0	2F1	40F26	l l b
c5&Amn5h	121:1	SFS2	SFS4	SFS7	SFS7	22F 0	l l b
crwe5Aq	0-:2	SFS4	:SFS1	SFS2	SFS2	118F71	l l b
BsrAum	17-:1	SF1-	SF11	SFS8	SF11	71F00	l l b
BsrAum	170:1	SF11	SFS8	SFS-	SFS8	41FS4	l l b
BerhFAum	:1	SFS7	SFS4	SFS4	SFS7	16F78	l l b
BAumu&%	2S :1				112		E
BAumu&%	2S :2				1S8		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF14	SFS4	SFS1	SFS0	1S4F- -	l l b
CsOmAum	1S6:1	:6F10	:6F12	:6F0	:6F76		l l b
CsOmAum	111:1	:SFS7	:SFS7	:SFS4	:SFS4		l l b
CsRqAum	47:1	6F27	0F02	- F67	6F- 7	16F- 4	l l b
CsRqAum	44:1	71F80	76F 4	72F47	77F0-	8F27	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	SF17	SF12	SFSS	SFS8	8-F20	l l b
CnbsR&	- :2	SFS1	SFS1	SFSS	SFS1	41F2-	l l b
CnI I er	67:2	SF- 6	SF76	SF20	SF4S	70F 2	l l b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				112		E
HnRmAum	16-:2				1S8		E
D5OAum	11-:1				111		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	-F07	1F 6	2F- 8	7F42	- F1S	l l b
Dn5	-6:2	-F0-	2F22	2F- 4	7F- S	- - F61	l l b
Dn5	-0:2	-F82	7FS7	1F80	7F- 0	-6F86	l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF12	SF17	SF12	SF12	2F48	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 66BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12-CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5	SF17	SF1S	SF11	18F44	I I b
LesO	2S8:1	SF11	SF17	SF11	SF12	8F64	I I b
LA&%Aum	6:1				0		E
y sM5ewAum	24:2	1SF 4	7F48	7F74	-F 2	07F47	I I b
y s5Ms5ewe	- - :2	SF71	SF5	SF17	SF18	60F71	I I b
y nPbOe5um	4:1	SF17	SF1S	SF5	SF11	1 F62	I I b
y nPbOe5um	- :1	SF1S	SF17	SF50	SF1S	71FSS	I I b
y nPbOe5um	6:1	SF11	SF17	SF11	SF12	8FS8	I I b
y nPbOe5um	0:1	SF5	SF12	SF58	SF1S	27F48	I I b
y nPbOe5um	8:1	SF12	SF12	SF56	SF1S	71F02	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF51	SF57	SF57	SF52	46F 2	I I b
3%nwl %nruw	71:2	:07FSS	:-4F8	:81F14	:6 F68		I I b
3n&swwAum	7 :2	16F0S	1SF-	17F48	17F01	21FSS	I I b
v %nOAum	1S7:1				112		E
v %nOAum	1S7:2				1S8		E
pqs5OAum	4- :1				11S		E
pqs5OAum	4- :2				1SS		E
pefe5Aum	82:1	:SF-1	:SF22	:SF71	:SF7-		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	SF5-	:SF07	SF1-	:SF18		I I b
pAqn5	28:1	:SF27	:SF22	:SF20	:SF24		I I b
pAger	1S0:1	SF52	SF51	SF51	SF51	2 F04	I I b
pAger	1S :1	SF51	SF51	SF51	SF51	17F8S	I I b
pnOAum	27:2	24F87	16F-S	1 F7	2SF24	2SF 1	I I b
p&n5&Aum	86:1	SF20	SF20	SF76	SF7S	16F84	I I b
p&n5&Aum	88:1	SF72	SF67	SF1	SF78	6SF4	I I b
pufur	74:1	:2-0SF S	:2277F-0	:2-S4F7S	:2476F26		I I b
i erbAum	1- :1				111		E
i erbAum	1- :2				1S0		E
i %sPAum	2S7:1	SF56	SF58	SF54	SF56	28F87	I I b
i %sPAum	2S-:1	SF50	SF56	SF56	SF56	17F0S	I I b
i A5	118:1	:SF57	SF5S	:SF52	:SF52		I I b
i A&5Aum	40:1	SF56	SF12	SF16	SF11	4-F68	I I b
Rrs5Aum	278:1	SF51	SF51	SF5S	SF51	4SF81	I I b

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Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 66BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12-CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	-1:2	SF5S7	SF5SS	SF5S1	SF5S1	110F62	l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				111		E
Y&&Aum	8 :2				1S4		E
ZA5q	66:2	SF2S	SF5S8	SF1	SF1-	41F-8	l l b
ZAqn5Aum	S:1	SF5SS	:SF5S1	SF5SS	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S2	SF5S2	SF5S1	SF5S1	4SSF24	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 66B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 66	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&WUA8 Juwb r Ja	126LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c 8mb A5Amb	2092	70F 2	77F7N	7NF60	76F6-	0FN1	l l e
c 5&b n5h	12191	7F10	7F2	7F1-	7F2S	2F42	l l e
cpl r 5Aq	0-92	2F1S	1F-	1F 4	1FN0	17F04	l l e
BwpAmb	17-91	1-F-4	1-F07	16F12	1-FNS	1FNN	l l e
BwpAmb	17091	1-FN-	16FS7	1-F---	1-FN1	1F-2	l l e
Br ph8Amb	91	1F-0	1F6N	1F66	1F64	7F-6	l l e
BAb m8%	2S 91				1S-		E
BAb m8%	2S 92				1S4		E
Bpmb A5r	N191						qll
CwCb Amb	1SN91	1FN-	2F1S	1F7N	1F0N	2SF76	l l e
CwCb Amb	1S691	92FN2	94F70	94F0S	97F 6		l l e
CwCb Amb	11191	1F6	1F60	1FN4	1F07	-F-S	l l e
Cw&pAmb	4791	026F21	026F0-	02NF-7	020F16	SF10	l l e
Cw&pAmb	4491	04-F02	0-7FNN	04 F 6	04 FN-	SF-4	l l e
Cwpen5	1291						qll
Cwpen5	1292						qll
C%&npA5r	7-91						qll
C%&npA5r	7-92						qll
C%pmb Amb	-292	7F-7	7F1	7F64	7F46	6FN7	l l e
Cnew&&	- 92	1F 7	1F02	1FNN	1FN4	6FS1	l l e
CnI l r p	6792	7F N	7F06	4FSS	7F 1	7F42	l l e
t hl l pnl Amb	1-691						qll
t hl l pnl Amb	1-692						qll
. peAmb	16491						qll
. peAmb	16492						qll
GwOn8A5Amb	16S91						qll
GwOn8A5Amb	16S92						qll
Hn8b Amb	16-91				1SN		E
Hn8b Amb	16-92				1S7		E
D5OAmb	11-91				1S0		E
D5OAmb	11-92						E
Dpn5	-492	707F-S	741F2-	7-4F	7-6F-N	4F-4	l l e
Dpn5	-692	767FS2	771F--	7-1F4	74NF6	4F-0	l l e
Dpn5	-092	7- F64	72SF01	741F1N	74SF-1	-F02	l l e
Kphl &a5	N791						qll
LrwO	2S691	1F40	1F-	1F-4	1F-7	4FS	l l e

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Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 66B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 66	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&wUA8 Juwb r Ja	126LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F67	1F-	1F61	1F61	1F10	l l e
Lr wO	2SN91	1F-4	1F-0	1F-4	1F--	1F1	l l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	26F0N	N-1F4	N 2F41	N SF7N	4F21	l l e
y w5Mw5r l r	- - 92	1F07	1F6N	1F0-	1F02	2FS7	l l e
y n8neOr 5mb	491	NF76	F24	NFN7	NFN1	4F N	l l e
y n8neOr 5mb	- 91	0F2S	0F72	0F46	0F77	1FN1	l l e
y n8neOr 5mb	691	0F47	0F77	0F66	0F40	2F26	l l e
y n8neOr 5mb	091	0F20	0F01	0F-4	0F-1	2F 7	l l e
y n8neOr 5mb	N91	0F-6	0F2-	0F46	0F42	2FSN	l l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1FNS	1F -	1F 1	4F61	l l e
3 %nl l %npm	7192	962FS1	906F 0	9-1F22	967F4S		l l e
3 n&wl Amb	7 92	NN7F00	0 NF N	N6-F-6	N4 F44	-F2-	l l e
v %nOAmb	1S791				1SN		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4-91				1SN		E
: qw5OAmb	4-92				6		E
: r 8 5Amb	N291	NFS6	0F 0	0F21	0F04	6FS4	l l e
: r 8 5Amb	0092	6F06	0F 0	0F0S	0F4N	NF-7	l l e
: r 8 5Amb	0N92	NF6N	F-4	F--	F26	-F42	l l e
: A8Aqn5	2N91	SFNS	SF00	SF00	SF0N	2F70	l l e
: A8gr p	1S091	1F6	1F04	1F6	1F01	1F0-	l l e
: A8gr p	1S 91	1F-	1F6	1F61	1F67	7F16	l l e
: nOAmb	2792	SNF--	N-SF06	S2F0S	NN0F74	7F-N	l l e
: 8pn5&Amb	N691	1FN7	1F01	1F61	1F02	6F22	l l e
: 8pn5&Amb	NN91	1FN1	1F64	1F62	1F6	6F16	l l e
: m8mp	7491	9224SF76	92S10F2N	92S0SF2-	921S F2		l l e
i r peAmb	1- 91				1S6		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F-2	1F-N	1F-0	1F-6	2F27	l l e
i %w8Amb	2S-91	1F-4	1F-N	1F62	1F-N	2F4N	l l e
i A5	11N91	SFS4	SFS2	9SFS1	SFS2	1-2F76	l l e
i A&w5Amb	4091	NFS4	0FN	0F 7	0F -	SF	l l e
Rpw5Amb	27N91	1F7	1F4-	1F44	1F47	2F12	l l e

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Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 66B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 66	t A8n8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J1 aS4a2-	t w&WJA8 Ju wb r Ja	126LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	c gMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	F-7	NF-S	FS4	FS2	-F6	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S0		E
Y8&pAmb	N 92				1SS		E
ZA5q	6692	F-6	F1S	NF 7	F2S	7F-	l l e
ZAqn5Amb	S91	1F44	1F-7	1F42	1F46	7F 1	l l e
ZAqn5Amb	191	1F2N	1F7	1F4	1F7	0F6-	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	hh0h4F. h	h- 080F2-	hh224F22	h4: 22F14	1F8h	I I b
cn&Amon%	12171	SF- 2	SF- 2	SF- 6	SF- -	6FS-	I I b
crsenAq	0h72	46F22	4hF6h	44F64	4hFhS	1F06	I I b
BarAum	1- h71	2hhFS8	24hF82	216F. S	2- : F26	8F- 2	I I b
BarAum	1- 071	261F4-	24: FS1	218F11	242F8h	: F1:	I I b
Ber%lAum	: 71	SF88	SF08	SF06	SF81	0F. 2	I I b
BAsmu&E	2S: 71				1SS		G
BAsmu&E	2S: 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	1F21	SFh6	SF41	SF0-	h8F42	I I b
RaOmAum	1S671	74Fh8	72F. 2	7- F22	7- Fh0		I I b
RaOmAum	11171	SF1:	SF- S	SF10	SF22	- - F4-	I I b
RalqAum	4- 71	h4- 2F80	4: : 4Fhh	4h1: F44	4: 82F2:	: F10	I I b
RalqAum	4471	h0S8F02	h- 1: F. 1	48- hF- 2	h280F. :	8F20	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	: SF8S	88F- 2	8: F04	8: F62	1F- :	I I b
Robal&	h: 72	- 6F10	- hF86	- hF64	- hF8:	SF04	I I b
RoI I er	6- 72	116Fhh	116FS2	11hFh:	116FSh	SF41	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				1S4		G
KolmAum	16h72				1S8		G
DnOAum	11h71				1SS		G
DnOAum	11h72				1S2		G
Don	h472	68: 12F- 4	68- ShF02	680h0F60	686h8Fh8	SF46	I I b
Don	h672	686- 1F. h	684: 8F. h	6: 222F14	68084F- h	SFh6	I I b
Don	h072	0S46hF. 2	6: : 8: F. :	0S016F68	0S- : SF86	SFh2	I I b
kr%l &on	8- 71						ql s
LeaO	2S671	11F28	1SF41	: F4S	1SF- 6	: FSh	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	11F14	: F: :	8F: 1	1SFS1	11F1-	I I b
LeaO	2S871	11F14	1SF1-	: F1:	1SF1h	: Fh6	I I b
LA&EAum	671				: -		G
MagnesAum	2472	2h118F4h	246: - F44	2hh01Fh8	2h120F8-	1F0h	I I b
Manganese	hh72	1- 8- Fh:	1- 6- F82	1- 06F22	1- 04Fh4	SF0-	I I b
Mol%bOenum	: 471	hF81	hF6:	hF1h	hFhh	6F28	I I b
Mol%bOenum	: h71	1F- S	1F- 0	1F1:	1F28	0F16	I I b
Mol%bOenum	: 671	1F8-	1F00	1F6:	1F06	4FSh	I I b
Mol%bOenum	: 071	1F- 1	1F44	1F22	1F- 2	8F42	I I b
Mol%bOenum	: 871	1F- 2	1F28	1F26	1F2:	2F- :	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	162F: 4	164F6h	161FSh	162F88	1F11	I I b
PEosI Eorus	- 172	862Fh-	: h- F6-	8- 6F: :	884F- 8	6F: -	I I b
Po&assAum	- : 72	12S2Fh8	118SFS8	11: 6F6S	11: - FS:	SF: 8	I I b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S1		G
pelenAum	8271	SF6h	7SF- -	SF- S	SF21	2- : F4S	I I b
pelenAum	0072	: F86	16F4:	4F60	1SF- 4	h0F- S	I I b
pelenAum	0872	1F: 1	- FS0	1Fh0	2F18	- hF: h	I I b
pAAqon	2871	- : 0F20	- 6: F64	- - SF- 1	- 6hF04	: F2S	I I b
pAver	1S071	SF1S	SF1S	SFS8	SFS:	12F86	I I b
pAver	1S: 71	SF1S	SF1S	SFS0	SFS:	10Fh2	I I b
poOAum	2- 72	2- 8F64	241F21	24- Fh-	241F1-	1FS1	I I b
p&ona&um	8671	h6F66	h4F: -	hSF62	h4FS0	hF06	I I b
p&ona&um	8871	h8F84	hhFh1	4: F: h	h4F00	8F2S	I I b
pulVur	- 471	71480F12	7244- F8-	7- - h2F- 8	72420F08		I I b
i erbAum	1h: 71				1S1		G
i erbAum	1h: 72				1S6		G
i EallAum	2S- 71	SF21	SF18	SF1:	SF1:	0F- 1	I I b
i EallAum	2Sh71	SF1:	SF18	SF16	SF18	: F4-	I I b
i An	11871	SF40	SF48	SF42	SF46	0F62	I I b
i A&anAum	4071	8h0F8h	812F14	020F- 4	0: : F11	8F2:	I I b
UranAum	2- 871	1F68	1Fh2	1F- -	1Fh1	11F84	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	12SFh8	11: F24	11: F28	11: F0S	SF64	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				1S4		G
Y&&Aum	8: 72				11S		G
ZAnq	6672	118F-8	12SF- -	118F-1	11: FS1	SF: 6	l l b
ZAqonAum	: S71	2F01	2Fh0	2F42	2Fh0	hF66	l l b
ZAqonAum	: 171	2F8S	2F64	2Fh6	2F60	4Fh6	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y ahq92&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1SJ2-	&sTsFdPP:u sb r :J	12NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	2040U	22S4U09	496U60	- 4N2U94	- U S	DDe
q5Tb n5%	12171	SU22	SU S	SU29	SU20	16UN-	DDe
qpwr 5cd	0 72	46UN4	42U 6	4NU14	4 UN	6U 6	DDe
Bspcmb	1- 71	22- U S	21NU02	210U21	219U60	1U 9	DDe
Bspcmb	1- 071	224U 1	21NUS	216U44	219U6S	1UN9	DDe
Br p%PPmb	971	SU06	SU6N	SU04	SU02	U44	DDe
Bcvb mTE	2S971				1S0		G
Bcvb mTE	2S972				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	SU6S	SU69	SU06	SU6N	11UN4	DDe
v sob cmb	1S671	7- U 6	74U02	72U9N	7- U0		DDe
v sob cmb	11171	SU16	SU1S	SU12	SU1-	26U1N	DDe
v sPdcmb	4- 71	461SU26	4610U69	4662U40	46- SU14	SU61	DDe
v sPdcmb	4471	S USO	49- NU 1	4929U41	4904U26	1U41	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- 71						dDw
v EPhpc5r	- 72						dDw
v Epmb cmb	272	1S2UN-	99U 0	1S4U24	1S2U21	2U 4	DDe
v nesPT	972	- 6U91	- U42	- 0U6-	- 6U6	- USO	DDe
v nDDr p	6- 72	112U90	1S9U6S	110UNS	11- U46	- U6-	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
KnPb cmb	16 71				11S		G
KnPb cmb	16 72				1S0		G
t5ocmb	11 71				1SN		G
t5ocmb	11 72				1S1		G
tpn5	472	69N26U1	60- 00UN1	012- NU49	694NSUN2	2UN1	DDe
tpn5	672	0S046UN2	601 9U20	0S- - 1U9-	69412U60	2UN-	DDe
tpn5	072	02S62U 0	6091 USS9	010 1U 2	0S 06U26	- U20	DDe
kp%DTn5	N- 71						dDw
Lr so	2S671	9U 4	9U 0	9U1-	9U2N	1U4-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y ahq92&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1SJ2-	&sTsFdPP:u sb r :J	12NqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	NUN2	NU09	NU6S	NU04	1U S	DDe
Lr so	2SN71	9US9	9US-	NU94	9US2	SUN	DDe
LdTEmb	671				1S1		G
y sM5r wmb	2472	24462U2	2- 90SU19	2 4 9U0	246- SU62	- USN	DDe
y s5Ms5r wr	72	1- - U09	1- S0U22	1- N1U	1- 40U2	2U09	DDe
y nP%eor 5mb	9471	U21	U0	U40	U	2U4	DDe
y nP%eor 5mb	9 71	1U2N	1U2	1U2N	1U S	1U9-	DDe
y nP%eor 5mb	9671	1UN-	1U04	1U01	1U06	- U69	DDe
y nP%eor 5mb	9071	1U20	1U4-	1U-	1U4	UN-	DDe
y nP%eor 5mb	9N71	1U4	1U S	1U S	1U1	1U6S	DDe
u r no%b mb	1 S71						dDw
u r no%b mb	1 S72						dDw
u dfr P	6S72	16- U0S	1 6U4N	166U16	162U11	- U1S	DDe
8 EnwDEnpmw	- 172	N9NU62	N- 2U0	94NU4-	N9- U14	6U2	DDe
8 nTswwmb	- 972	119 U61	11- 6U	1212U6	11N1U1	- U9	DDe
CEnomb	1S- 71				1S6		G
CEnomb	1S- 72				1S		G
I ds5omb	4 71				11S		G
I ds5omb	4 72				1S1		G
I rPP5mb	N271	SU0	7SUS4	7SUS4	SU1S	24- U9	DDe
I rPP5mb	0072	14U91	NU N	1- US1	12U16	26U02	DDe
I rPP5mb	0N72	1U0-	1U99	2U02	2U1	2- U9-	DDe
I dPdn5	2N71	- - - UN2	- 2NU4	- 2NU0	- - SU1N	SU96	DDe
I dPgr p	1S071	SUS0	SU1S	SUSN	SUSN	1 UN2	DDe
I dPgr p	1S971	SUS0	SUS0	SUSN	SUSN	0U6N	DDe
I nomb	2- 72	242U21	210U60	244U0	2- 4UN1	6U4	DDe
I Tpm5Tmb	N671	SU 1	SU41	49U4N	SU1-	1U1-	DDe
I Tpm5Tmb	NN71	SU41	49UN	49US6	49U61	1U42	DDe
I mPVmp	- 471	7- S 4UN9	7- 1 U1	7- - 29U94	7- - SSUS		DDe
Ar pemb	1 971				1S0		G
Ar pemb	1 972				1S4		G
AEs PPmb	2S- 71	SU14	SU11	SU16	SU14	1 U62	DDe
AEs PPmb	2S 71	SU16	SU12	SU14	SU14	1- US4	DDe
Ad5	11N71	SU2	SU6	SU6	SU4	6UNN	DDe
AdS5mb	4071	062U2S	049U9	0- NU60	0 SU1	1U0	DDe
Rps5mb	2- N71	1UN	1U6	1U6	1U0	SU94	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y ahq 92&	&dPmTcn5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1S.J2-	&sTsFdPr:u sb r :J	12NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
hs5soomb	172	121U6N	11 U 2	122U69	119U96	- U24	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N971				1S9		G
YTTpomb	N972				1S6		G
Zd5d	6672	119U10	110U06	126U	121U16	- U9S	DDe
Zqpdn5omb	9S71	2U9	2U42	2U44	2U42	1U16	DDe
Zqpdn5omb	9171	2U N	2U44	2U6S	2U 4	- U2	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - OO4LX7	DRw&Smb Rr &usb r J	8 N
v PA R&psb I P D J	Ha9c : 2L	t ARm&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- OO3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Uo

8ssSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23O2	1O173U31	1O133U-2	1O1N- UNN	1O132U-3	OU1-	I l e
c R&b nRy	12101	OU06	OU07	OU06	OU06	4UN2	I l e
c Sw r RAq	37O2	NU33	: U24	: UON	: UO-	2U61	I l e
Bs SAmb	1- 701	41U-3	41U3:	42U-:	41UN7	1U2-	I l e
Bs SAmb	1- 301	41U2-	41U33	42U-3	41U3:	1U-6	I l e
Br SyPAmb	: 01	OU13	OU16	OU1N	OU13	6U-	I l e
BAmb m&a	2O. 01				1O6		%
BAmb m&a	2O. O2				1O2		%
BSmb ARr	N101						ql w
v sob Amb	1ONO1	OUO.	OU1-	OU13	OU1-	- 1UNO	I l e
v sob Amb	1O601	O2U34	O4UNN	O7U7:	O4U4O		I l e
v sob Amb	11101	OUO4	OOUO1	OOUO-	OUOO		I l e
v sRqAmb	4- 01	N: 6UNO	NN7U64	NN7U71	NN: U1	OU3-	I l e
v sRqAmb	4401	: 24U2-	: OOU-6	: O- U3-	: O. U44	1U42	I l e
v sSenR	1201						ql w
v sSenR	12O2						ql w
v hPmSRr	- 701						ql w
v hPmSRr	- 7O2						ql w
v hSmb Amb	72O2	13U71	1NU2O	1NU12	13U-4	2UON	I l e
v nesR&	7: O2	3UO-	3U14	3U1:	3U12	1U12	I l e
v nI l r S	6- O2	2- U43	22U:	2- U66	2- U-3	1U4:	I l e
t ywl SmwAmb	1760 1						ql w
t ywl SmwAmb	1760 2						ql w
F SeAmb	1640 1						ql w
F SeAmb	1640 2						ql w
GsonPARAmb	16OO1						ql w
GsonPARAmb	16OO2						ql w
KnPb Amb	1670 1				1O7		%
KnPb Amb	1670 2				1O4		%
DRoAmb	1170 1				1O7		%
DRoAmb	1170 2				: :		%
DSmR	74O2	12364U61	12: 63UO-	12: - 7U1-	12NNNU2	OUN4	I l e
DSmR	76O2	1- 631U6:	1- N7: U-6	1- 63- U21	1- 3- 4U37	OU3:	I l e
DSmR	73O2	12612U-	12377UNN	12N: 7U1O	12374U64	1U11	I l e
k SyI &aR	N- 01						ql w
Lr so	2O601	1U-7	1U36	1UN3	1UN6	7U1N	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - OO4LX7	DRw&Smb Rr &usb r J	8 N
v PA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- OO3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Uo

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
Lr so	2O301	1U3:	1U66	1U32	1U32	- U72	I l e
Lr so	2ON01	1UN6	1U37	1UN2	1UN1	- U2O	I l e
LA&nAmb	601				: N		%
HsMRr wAmb	24O2	43: 4U73	4363U1-	4N- 7U4	43: : U21	OU32	I l e
HsRMsRr w	77O2	263U-	26: U33	23- U62	23OU44	1UO3	I l e
H nPyeor Rmb	: 401	1UO3	1UON	1UO-	1UO6	2U42	I l e
H nPyeor Rmb	: 701	OU- O	OU26	OU26	OU23	NU74	I l e
H nPyeor Rmb	: 601	OU-	OU-	OU- 2	OU-	2UOO	I l e
H nPyeor Rmb	: 301	OU24	OU24	OU2-	OU24	- U2:	I l e
H nPyeor Rmb	: N01	OU2-	OU2N	OU27	OU27	: U17	I l e
u r noyb Amb	17O01						ql w
u r noyb Amb	17O02						ql w
u AqfrP	6OO2	- 2U- 1	- 2U37	- - U- O	- 2U:	OUN6	I l e
8 hnwl hnSmw	- 1O2	: : U- 1	11: U26	114U44	111U2O	: UO6	I l e
8 n&swwAmb	- : O2	247U66	246U67	244U46	247U7:	OU47	I l e
EhnoAmb	1O- 01				1O7		%
EhnoAmb	1O- O2				1O-		%
pqsRoAmb	4701				1O3		%
pqsRoAmb	47O2				: 6		%
pr P RAmb	N201	OOU6-	OOU22	OOU4O	OOU42		I l e
pr P RAmb	33O2	2U- 6	2UN:	OOU- N	1UN2	1O4U7-	I l e
pr P RAmb	3NO2	OU76	OUN2	OU1:	OU72	6OU17	I l e
pAAqnR	2N01	66UN4	6- U- N	64U47	67UO	2U- 6	I l e
pAgr S	1O301	OUO2	OUO-	OUO-	OUO-	2- UN:	I l e
pAgr S	1O: 01	OUO-	OUO2	OUO2	OUO-	3U- 3	I l e
pnoAmb	2- O2	72U- :	46U46	47UNN	4NU44	NU17	I l e
p&nR&Amb	N601	1OU4:	1OUOO	: U77	1OUO1	4U3-	I l e
p&nR&Amb	NN01	: UN7	: U61	: U33	: U34	1U2N	I l e
pmPrS	- 401	O23N: U42	0- 16- U27	0- 1NNU7:	0- O43UO		I l e
i r SeAmb	17: 01				1O3		%
i r SeAmb	17: O2				1O4		%
i hsPAmb	2O- 01	OUO7	OUO7	OUO6	OUO7	7UN4	I l e
i hsPAmb	2O701	OUO4	OUO7	OUO7	OUO7	17UN4	I l e
i AR	11N01	OUO4	OUOO	OUO7	OUO-	N6U73	I l e
i A&sRAmb	4301	144UO4	141U3N	146U- 2	144UO7	1U7N	I l e
CSsRAmb	2- N01	OU23	OU23	OU27	OU26	4U2O	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8N
v PR&psb l P D J	Ha9c : 2L	t ARn&nR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ub

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
9sRsoAmb	71O2	2- UN2	2- U-6	2- U3:	2- U66	1UO2	l l e
Y&&SeAmb	13201						ql w
Y&&SeAmb	13202						ql w
Y&&SeAmb	13601						ql w
Y&&SeAmb	13602						ql w
Y&&SAmb	N: 01				1O6		%
Y&&SAmb	N: 02				1O1		%
ZARq	6602	24U34	2- U72	2- U36	24UO1	2U3O	l l e
ZASqnRAmb	: O01	O147	O14:	O143	O143	4U24	l l e
ZASqnRAmb	: 101	O146	O146	O142	O147	4U1	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9169 1:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	4: h: 8F51	h10- 4F. h	h214: F20	h116SF04	2F68	I I b
cn&Amon%	12171	1: F88	18F4h	1: Fhh	1: F- S	- F88	I I b
crsenAq	0h72	h2F0h	hhF11	h- F0S	h- F8h	2F21	I I b
BarAum	1- h71	6S1F2h	hhhF00	h: 8F4h	h8hF16	4F- 6	I I b
BarAum	1- 071	6ShF6:	h60Fh2	6S4F66	h: 2F62	- F60	I I b
Ber%lAum	: 71	11FSS	1SF- 8	1SF62	1SF60	2F. 6	I I b
BAsmu&E	2S: 71				1S8		G
BAsmu&E	2S: 72				1S-		G
BromAne	8171						ql s
RaOmAum	1S871	8F54	0F88	: F40	8F46	1SF- 6	I I b
RaOmAum	1S671	4F24	hF42	4F28	4F6h	14F48	I I b
RaOmAum	11171	1SF24	: F20	1SF2S	: F. S	hFhh	I I b
RalqAum	4- 71	42- - F24	4SS- F51	41- 2F0S	4122F. 8	2F8S	I I b
RalqAum	4471	4h1: F4-	410SF- h	444: F54	4- 0: F61	4F22	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	182F68	1: 4F21	18: F8-	188F. 1	- F58	I I b
Robal&	h: 72	146F. 6	1hhF2-	1hSF- S	1hSF8-	2F06	I I b
Rol I er	6- 72	1h6F. 4	164F1h	1h: F4:	16SF1:	2F28	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				11-		G
KolmAum	16h72				1S-		G
DnOAum	11h71				11S		G
DnOAum	11h72				: 8		G
Don	h472	0111SF- 8	02010F. 4	01S6: F51	016- 2F44	1F- 1	I I b
Don	h672	684: hF12	02: 48F1-	0SS02F50	0ShShF11	- F2S	I I b
Don	h072	0S100F- 4	0- - : : F- 1	02: 14F2-	0216- F6-	2F41	I I b
kr%l &on	8- 71						ql s
LeaO	2S671	12F50	11F88	11F08	11F. 1	1F22	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9169I:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	11Fh8	11F- 6	11FhS	11F48	SF. 8	I I b
LeaO	2S871	11F80	11F4h	11Fh6	11F6-	1F86	I I b
LAEAum	671				1S4		G
MagnesAum	2472	2- 04: F4h	240- 8Fh6	24- 12F- 6	24266F0:	2FS4	I I b
Manganese	hh72	1- hSF61	141- Fh:	1- 08F. 1	1- 81FS4	2F28	I I b
Mol%bOenum	: 471	hFhh	hFh2	hFh0	hFhh	SF4h	I I b
Mol%bOenum	: h71	1F6h	1F0h	1F68	1F6:	2F. 8	I I b
Mol%bOenum	: 671	2F1h	2F18	2F11	2F1h	1F6h	I I b
Mol%bOenum	: 071	1F. 0	1F0h	1F0:	1F84	6F20	I I b
Mol%bOenum	: 871	1F06	1F0-	1F60	1F02	2F46	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	26hF26	284F18	202F. :	204F1h	- F40	I I b
PEosI Eorus	- 172	826F88	8S4FSS	8h8F68	82: F8h	- F- 1	I I b
Po&assAum	- : 72	1114F1:	11- 0F. 1	1141F4-	11- 1F18	1F- 1	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4h71				11h		G
pqanOAum	4h72				: 0		G
pelenAum	8271	18F88	18F2-	2SF40	1: F1:	6FS2	I I b
pelenAum	0072	- 4F61	- 8FS1	- 1F60	- 4F06	: F1-	I I b
pelenAum	0872	2- FS-	2hFS-	2SF82	22F. 6	: F18	I I b
pAAqon	2871	- S2F- 2	200F1:	28: F0h	28: F06	4F- 4	I I b
pAver	1S071	8F41	0F. 1	8F- 0	8F2-	- F41	I I b
pAver	1S: 71	8F42	8FSh	8F4h	8F- 1	2F0S	I I b
poOAum	2- 72	2S8F. S	221F81	21: F86	216F86	- F21	I I b
p&on&Aum	8671	4hF- 2	4- FS2	44F81	44F- 8	2F02	I I b
p&on&Aum	8871	44F81	41F02	4- F04	4- F4-	- F61	I I b
pulVur	- 471	7- 62: F8:	741- hF64	7- 8- 4F6:	7- 866F04		I I b
i erbAum	1h: 71				11-		G
i erbAum	1h: 72				1S-		G
i EallAum	2S- 71	: FSS	8F6:	8F. S	8F80	1F81	I I b
i EallAum	2Sh71	: FS6	8F08	: F1h	: FSS	2F14	I I b
i An	11871	SF- 4	SF26	SF- 6	SF- 2	1hF4h	I I b
i A&anAum	4071	0S1F1:	6h: F84	68hF. 4	682F- -	- FS6	I I b
UranAum	2- 871	1F- S	1F2h	1F20	1F20	2FS-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9169 1:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
yanaOAum	h172	22: F22	24SF- S	2- 6F: 4	2- hF4:	2F41	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				112		G
Y&&Aum	8: 72				: :		G
ZAnq	6672	221F01	2- SF: :	22hF46	226FS6	2FS0	I I b
ZAqonAum	: S71	2F4-	2F1-	2F28	2F28	6F44	I I b
ZAqonAum	: 171	2F26	2F10	2F40	2F- S	6F00	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPP:u sb r :J	1- 1qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	7242UN6	4949US7	7- 9- U 1	7197US0	4U 7	DDe
q5Tb n5%	121 1	SU9S	SU00	SUNN	SUN7	0U9S	DDe
qpwr 5cd	07 2	NU12	0U64	NU77	NU1S	7U64	DDe
Bspcmb	1- 7 1	192USS	167U14	162U00	10- U S	9U 0	DDe
Bspcmb	1- 0 1	19- U1-	166U74	164U91	104UN6	9USS6	DDe
Br p%PPmb	9 1	1U62	1U72	1U44	1U7-	7UN7	DDe
Bcvb mTE	2S9 1				1S4		G
Bcvb mTE	2S9 2				1S0		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUNS	SU6S	SU-	SU7N	4SU77	DDe
v sob cmb	1S6 1	1U9S	2USS1	- U4-	2U47		DDe
v sob cmb	111 1	SU4-	SU29	SU29	SU4	2- U94	DDe
v sPdcmb	4- 1	2N7NSUS0	247- 6U6	2- 477U47	2772- U96	1SU7N	DDe
v sPdcmb	44 1	2917- USS9	261S7U16	247NSUNN	2661- USS7	NU07	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	17U2S	14U6	17U7N	17USS7	4U1-	DDe
v nesPT	79 2	4U S	4USS9	4U6	4U27	- U29	DDe
v nDDr p	6- 2	1NU62	10U7	1NU96	1NU1	4U64	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				1S7		G
h nPb cmb	167 2				1SN		G
t5ocmb	117 1				1S2		G
t5ocmb	117 2				1S-		G
tpn5	74 2	179S- U7	17S42U2	1621NU77	17021U20	- UN0	DDe
tpn5	76 2	1606- U9N	16112U6-	104SNU10	16061U79	- UN6	DDe
tpn5	70 2	17740U0S	14N62U1	1641NU6S	176S9U7-	7USS	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	- - U6S	2NUS7	2NU74	- SUS6	1SU2-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPP:u sb r :J	1- 1qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	- 1U91	27UNS	26U44	2NUS7	11U96	DDe
Lr so	2SN 1	- 2U04	20U2S	20UN2	29U26	1SU-0	DDe
LdEomb	6 1				96		G
y sM5r womb	24 2	0414U71	0S- 0U6-	040- U40	0- SNU74	- U24	DDe
y s5Ms5r wr	77 2	760U6N	7- 6U21	7NSU6S	761U49	4US0	DDe
y nP%eor 5mb	94 1	NU20	0U19	0U20	0U7N	0U90	DDe
y nP%eor 5mb	97 1	2U12	1UN0	1U01	1U9S	1SUNN	DDe
y nP%eor 5mb	96 1	2UNS	2U40	2U7S	2U79	6U90	DDe
y nP%eor 5mb	90 1	2U-1	1UN-	1U94	2US-	12U10	DDe
y nP%eor 5mb	9N 1	2U21	1U91	1U0N	1U90	11U1-	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	NU62	NU1N	9US-	NU61	4U96	DDe
8 EnwDEnpmw	- 1 2	610U26	760U14	6N7U20	62- U22	9U71	DDe
8 nTswwomb	- 9 2	214SU7N	2S66USN	22- 7USS	2140U22	- U94	DDe
CEnoomb	1S- 1				1S2		G
CEnoomb	1S- 2				1S0		G
I ds5oomb	47 1				1S1		G
I ds5oomb	47 2				99		G
I r P 5omb	N2 1	SU70	SU67	SUNS	SU60	10U47	DDe
I r P 5omb	00 2	4- U12	24U60	- 6U72	- 4U00	26UN9	DDe
I r P 5omb	0N 2	NUS9	6U4S	NUS9	0U7-	1- US1	DDe
I dPdn5	2N 1	144U96	12SUN9	11NU19	12NUS1	11U71	DDe
I dPgr p	1S0 1	SU14	SU17	SU14	SU14	1US0	DDe
I dPgr p	1S9 1	SU14	SU10	SU16	SU17	NU9N	DDe
I nooomb	2- 2	162U67	177UN7	10- U6S	164US4	7U46	DDe
I Tpn5Tomb	N6 1	7- UNN	46U94	44U-9	4NU4S	1SU17	DDe
I Tpn5Tomb	NN 1	72U6S	46US1	44U-4	40U67	9U16	DDe
I mPmp	- 4 1	2N- UNS	1- 29UNN	1- 6- U-0	992U-7		DDe
Ar peomb	179 1				1S7		G
Ar peomb	179 2				1S9		G
AEs PPomb	2S- 1	SU27	SU22	SU2-	SU2-	6U9-	DDe
AEs PPomb	2S7 1	SU22	SU2S	SU2S	SU21	7U00	DDe
Ad5	11N 1	6U19	7U24	7U41	7U61	NU90	DDe
AdS5omb	40 1	47- US7	- 9- U91	- 06UN4	4S0U9-	9UNS	DDe
Rps5omb	2- N 1	2U14	1UN0	1UN4	1U97	NU7S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPr:u sb r :J	1- 1q C. Fub

8 sspsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	10U47	16UNS	1NU41	10U77	4U6S	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				1S0		G
YTTpomb	N9 2				111		G
Zc5d	66 2	1- 0U94	12NU71	141U06	1- 6USS0	7US1	DDe
Zqpdn5omb	9S 1	- U0S	- U24	- U10	- U 0	NU6S	DDe
Zqpdn5omb	91 1	- U6S	- U2-	- U22	- U 7	6U49	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdP:u sb r :J	1- 2qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	7SS0U1S	7S41U00	7S04U-2	7S41US6	SU60	DDe
q5Tb n5%	121 1	SU0-	SUNS	SU00	SU00	4U92	DDe
qpwr 5cd	07 2	0U99	0U9N	NU40	NU17	- U7S	DDe
Bspcmb	1- 7 1	17NU69	176U9N	177UN4	170U10	SU91	DDe
Bspcmb	1- 0 1	162U10	179U07	17NU40	16SU1-	1U10	DDe
Br p%PPmb	9 1	1U42	1U47	1U-6	1U41	- U-N	DDe
Bcwb mTE	2S9 1				1S9		G
Bcwb mTE	2S9 2				1SN		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SU9-	SU02	SU90	SUN0	17U47	DDe
v sob cmb	1S6 1	1U99	- UN7	2U94	2U9-		DDe
v sob cmb	111 1	SU-7	SU-2	SU29	SU-2	NU79	DDe
v sPdcmb	4- 1	2- 221U71	22N46U00	22044U1S	229- 0U46	1U1S	DDe
v sPdcmb	44 1	2- N06U94	24119US7	2- 417U07	2- NS- U91	1U7S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	14UN4	14U94	14U77	14U0N	1U-7	DDe
v nesPT	79 2	4U19	4U1N	4U1-	4U10	SUN6	DDe
v nDDr p	6- 2	10U62	10UN2	10U02	10U02	SU70	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				112		G
h nPb cmb	167 2				1S9		G
t5ocmb	117 1				111		G
t5ocmb	117 2				1S-		G
tpn5	74 2	17- 2SU60	17- 6SU-1	17700U01	17419U70	SU9S	DDe
tpn5	76 2	16266U02	16- 07U9-	16626U-6	1642- USS	1U12	DDe
tpn5	70 2	1710SU22	171S2U0S	17471U9S	17241U6S	1U22	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	20U92	20U-9	20U14	20U4N	1U46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdPP:u sb r :J	1- 2qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	27U94	27U74	27U6N	27U02	SU09	DDe
Lr so	2SN 1	20U-S	26U69	26U06	26U92	1U24	DDe
LdTEomb	6 1				1S1		G
y sM5r womb	24 2	010- U9S	011SU-N	017SU17	0144UN1	SU47	DDe
y s5Ms5r wr	77 2	771US1	771U66	76- U-	777U-	1U27	DDe
y nP%eor 5mb	94 1	0U17	6U94	0US7	0US7	1U77	DDe
y nP%eor 5mb	97 1	1UN2	1UN7	1U69	1U09	4UNS	DDe
y nP%eor 5mb	96 1	2U-4	2U4S	2U-	2U-6	1U71	DDe
y nP%eor 5mb	90 1	1UN6	1U00	1U6N	1U00	7U12	DDe
y nP%eor 5mb	9N 1	1UN0	1UNS	1U06	1UN1	- US7	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	NU47	NU7N	NU2N	NU44	1U06	DDe
8 EnwDEnpmw	- 1 2	6S9US-	612U44	700U71	799U66	- U21	DDe
8 nTswwomb	- 9 2	211- U-6	2SN- U24	21SSU-4	2S9NU9N	SU02	DDe
CEnoomb	1S- 1				1S9		G
CEnoomb	1S- 2				1SN		G
I ds5oomb	47 1				111		G
I ds5oomb	47 2				1SS		G
I r P 5omb	N2 1	SU11	SU2S	SU2N	SU2S	4- U76	DDe
I r P 5omb	00 2	41U2S	2NU99	- 6U7-	- 7U70	10U-	DDe
I r P 5omb	0N 2	7UNS	4U47	6U66	7U64	19U69	DDe
I dPdn5	2N 1	11- U97	114U-6	11- U02	114US1	SU29	DDe
I dPgr p	1S0 1	SU14	SU12	SU1-	SU1-	NU16	DDe
I dPgr p	1S9 1	SU17	SU11	SU12	SU1-	17U6-	DDe
I nomb	2- 2	171U-9	17SU71	170US9	17- USS	2U-4	DDe
I Tpm5Tomb	N6 1	47UN2	42U16	42U07	4- U7N	4U7S	DDe
I Tpm5Tomb	NN 1	44U2-	4- U1-	42U14	4- U16	2U41	DDe
I mPmp	- 4 1	14N2U62	169SUNN	1644U0-	16S6USN		DDe
Ar pemb	179 1				112		G
Ar pemb	179 2				1SN		G
AEsPPmb	2S- 1	SU21	SU1N	SU2S	SU2S	6U1S	DDe
AEsPPmb	2S7 1	SU22	SU1N	SU2S	SU2S	9U01	DDe
Ad5	11N 1	7U2S	4UNS	4UN9	4U96	4U1N	DDe
AdS5omb	40 1	- 01U16	- 0SU22	- 79U9N	- 60U12	1U69	DDe
Rps5omb	2- N 1	1UN4	1UN1	1UNS	1UN2	1US2	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdPr:u sb r :J	1- 2q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	10U-2	16U00	10U62	10U2-	2U7S	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				117		G
YTTpomb	N9 2				11-		G
Zd5d	66 2	1- 2U9S	1- 1U74	1- - U-N	1- 2U61	SU02	DDe
Zqpdn5omb	9S 1	- USS9	- USSN	2U92	- USS-	- U21	DDe
Zqpdn5omb	91 1	- U-4	- U1N	- U12	- U22	- U49	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5-40OXO4L70	DRw&Smb Rr &usb r J	8N
v PA R&psb l P D J	H9O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2-XO3X12 1: J20J11	t s&s. AP usb r J	1--cEF. Uo

8ssSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23X2	1OO3U4:	11NOUOO	1O-3U1:	1O34UO	NU0N	l l e
c R&b nRy	121X1	OU13	OU16	OU1N	OU13	0U02	l l e
c Sw r RAq	30X2	1U32	2U1O	1U6N	1UN-	12U4N	l l e
Bs SAmb	1-0X1	--U62	-1UO-	-1UN-	-2U16	4U11	l l e
Bs SAmb	1-3X1	-1U-	-1U43	-2U:	-1U3-	1UN-	l l e
Br Sy PAmb	:X1	OU2	OU2N	OU2	OU1	3U22	l l e
BAb m&a	2O. X1				1ON		%
BAb m&a	2O. X2				1O1		%
BSmb ARr	N1X1						ql w
v sob Amb	1ONX1	OU1	OU10	OU01	OU16	:4U2	l l e
v sob Amb	1O6X1	X1U60	X-U06	X2U02	X2U0N		l l e
v sob Amb	111X1	OU0-	OU02	OU0N	OU04	6:U1O	l l e
v sRqAmb	4-X1	4021U40	403:U4	4633U00	40:2UN	1U32	l l e
v sRqAmb	44X1	4N-4U63	4N42U1	4NN-U01	4N0-U-	OU04	l l e
v sSenR	12X1						ql w
v sSenR	12X2						ql w
v hPSRr	-0X1						ql w
v hPSRr	-0X2						ql w
v hSmb Amb	02X2	2U4	-U60	-U1	-U2-	11U42	l l e
v nesR&	0:X2	OU1	OU:	OUNO	OUO	1OU64	l l e
v nl l r S	6-X2	-U36	4U4:	-U32	-U:	1OU0	l l e
t ywl SnwAmb	106X1						ql w
t ywl SnwAmb	106X2						ql w
F SeAmb	164X1						ql w
F SeAmb	164X2						ql w
Gson PARAmb	16OX1						ql w
Gson PARAmb	16OX2						ql w
9 nP Amb	160X1				1O.		%
9 nP Amb	160X2				1O2		%
DRo Amb	110X1				1O.		%
DRo Amb	110X2				:6		%
DSmR	04X2	-O6-U04	-6ONU:	-130U3:	-2N2U03	NU36	l l e
DSmR	06X2	--43U62	-N36U60	--N4U26	-0-6U1N	NU0	l l e
DSmR	03X2	-O3-U63	-0:3UN-	-14:U0:	-23-U3O	NU60	l l e
KSyl &aR	N-X1						ql w
Lr so	2O6X1	0U40	0U0:	0U01	0U02	1U23	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5-40OXO4L70	DRw&Smb Rr&usb r J	8N
v PA R&psb l P D J	H9O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2-XO3X12 1:.J20J11	t s&s. AP usb r J	1--cEF. Uo

8sSsb r&S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
Lr so	2O3X1	0U10	0U12	0U1-	0U1-	OU26	l l e
Lr so	2ONX1	0U-O	0U4O	0U-N	0U-6	OU-6	l l e
LA&nAmb	6X1				:3		%
HsMRr wAmb	24X2	14O3U00	16NOU30	14NOUN1	102-UO4	:U2N	l l e
HsRMsRr w	00X2	11OU22	123U03	112U6O	116UNO	NUO0	l l e
HnPyeor Rmb	:4X1	1U2N	1U42	1U42	1U-3	0U34	l l e
HnPyeor Rmb	:0X1	OU46	OU-1	OU-N	OU-:	1:U13	l l e
HnPyeor Rmb	:6X1	OU40	OU46	OU42	OU44	4U-O	l l e
HnPyeor Rmb	:3X1	OU41	OU-3	OU-	OU-3	1OUN:	l l e
HnPyeor Rmb	:NX1	OU41	OU-O	OU-	OU-0	16U14	l l e
ur noyb Amb	10OX1						ql w
ur noyb Amb	10OX2						ql w
uAqkr P	6OX2	1U3N	1U-6	1U66	1UNO	NU43	l l e
8hnwl hnSmw	-1X2	31U-:	110U21	64U3-	N-U33	-2U34	l l e
8n&swwAmb	-:X2	426U14	4:2U22	446U3-	400UO-	3U4-	l l e
EhnoAmb	1O-X1				1O.		%
EhnoAmb	1O-X2				1O1		%
pqsRoAmb	40X1				1ON		%
pqsRoAmb	40X2				:4		%
pr P RAmb	N2X1	XOU1N	OUO-	OUOO	XOUOO		l l e
pr P RAmb	33X2	0U1-	NU-:	4U11	0UNN	-NUO4	l l e
pr P RAmb	3NX2	1U20	2U4-	1U01	1U3-	-0U-4	l l e
pAAqnR	2NX1	2-U-:	2-U22	22UN2	2-U14	1U26	l l e
pAgr S	1O3X1	OUO4	OUO4	OUO4	OUO4	1U11	l l e
pAgr S	1O.X1	OUO4	OUO-	OUO-	OUO-	0U-2	l l e
pnoAmb	2-X2	21U03	41UN0	24UN6	2:U4-	-6U-:	l l e
pSmR&Amb	N6X1	NUN0	NU60	NU34	NU30	1U16	l l e
pSmR&Amb	NNX1	:U03	NU3N	NUN-	NUN:	1U3N	l l e
pmPmS	-4X1	X1-26U21	X1-16U30	X12-NU2N	X12:-U30		l l e
ir SeAmb	10:X1				1O.		%
ir SeAmb	10:X2				1O1		%
i hsPAmb	2O-X1	OUO0	OUO3	OUO3	OUO6	10U04	l l e
i hsPAmb	2O0X1	OUO0	OUO0	OUO0	OUO0	0U-4	l l e
i AR	11NX1	OUNN	OU-O	1UO2	OU-	NU4-	l l e
i A&sRAmb	43X1	32UN0	3-U3:	3-U22	3-U2N	OU60	l l e
CSsRAmb	2-NX1	OU-0	OU-0	OU-6	OU-0	OUN1	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8 N
v PA R&psb l P D J	H9 O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - c EF. Uo

8sSsb r &S	Hsww	v nRErl 1	v nRErl 2	v nRErl -	cgMUv nRqU	v nRqEpt	CRA&w
VsRsoAmb	01X2	- U06	4U0-	- U46	- U6N	NU20	l l e
Y&&SeAmb	132X1						ql w
Y&&SeAmb	132X2						ql w
Y&&SeAmb	136X1						ql w
Y&&SeAmb	136X2						ql w
Y&&SAmb	N: X1				1O:		%
Y&&SAmb	N: X2				: N		%
ZARq	66X2	26U3-	- OU6-	26U6:	2NUO2	NUON	l l e
ZASqnRAmb	: OX1	OU62	OU64	OU60	OU64	2U0:	l l e
ZASqnRAmb	: 1X1	OU00	OU61	OU0N	OU0N	0U14	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S6	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFaSl	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19.J2aJ11	&wTwFd8 :u wb r :J	1- 4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	49a- U64	7S67U72	7249U1S	7S99U42	2U60	DDe
q5Tb n5%	121 1	2SU6a	1aU2a	27US-	21U-	16US4	DDe
qpl r 5cd	07 2	17U76	17U-2	16U06	17Uaa	4Ua7	DDe
Bwpcmb	1- 7 1	706U62	7SaUS9	0S1U6a	797U46	16U4a	DDe
Bwpcmb	1- 0 1	791U1a	711UaS	0S6Ua-	6S- U20	16U26	DDe
Br p%8cmb	9 1	12U-2	11U17	14U4-	12U6-	1- U17	DDe
Bdb mTE	2S9 1				1S7		G
Bdb mTE	2S9 2				1S0		G
Bpmb d5r	a1 1						dDl
v wob cmb	1Sa 1	9US9	aU04	11UaS	9Uaa	16U96	DDe
v wob cmb	1S6 1	0U7S	6U1S	0U9S	0U16	1- U22	DDe
v wob cmb	111 1	1SU96	9U7-	1- U-9	11U29	10U20	DDe
v w8dcmb	4- 1	2- 4a- U0-	2S696U-4	2916- U07	24440U94	10U67	DDe
v w8dcmb	44 1	246a1U2-	2S96aUa1	- S11- U64	27274U76	1aU21	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	76U4-	76Ua7	79U07	70U6a	- U14	DDe
v new8T	79 2	116US1	110U62	121U11	11aU27	2U21	DDe
v nDDr p	6- 2	66U-	66U66	69U6a	60U76	2U0-	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				1S6		G
h n8b cmb	167 2				1S6		G
t5ocmb	117 1				1S4		G
t5ocmb	117 2				1S1		G
tpm5	74 2	1- a97U10	1- 969Ua6	1447SU12	141S7US7	2U14	DDe
tpm5	76 2	14a46US-	1491aU2a	17- 96U29	17S7- U7-	1U99	DDe
tpm5	70 2	1- a11US9	1- a26USa	14- 6SUS4	1- 999US0	2U2-	DDe
Kp%DTn5	a- 1						dDl
Lr wo	2S6 1	- 1U64	2aU71	- 9U1S	- - USa	16U44	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 47S S6	t5l Tpmb 5r Tuwb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFaSl	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J2aJ11	&wTwFd8 :uwb r :J	1- 4qC. Flb

NwpwbrTrp	ywl l	vn5Cr D1	vn5Cr D2	vn5Cr D-	qgMJvn5dU	vn5dCl &	R5dT
Lr wo	2S0 1	29U9a	26U92	- 6U61	- 1U10	17Ua9	DDe
Lr wo	2Sa 1	- 1US2	20U6S	- 0Ua7	- 2U16	16U2-	DDe
LdTEmb	6 1				96		G
y wW5rl mb	24 2	0SSaU6S	0S0- U9a	0276U0-	011- U1S	1Ua1	DDe
y w5Mw5rl r	77 2	6S4U00	614U60	6- 6U60	61aU0S	2U64	DDe
y n8%eor 5mb	94 1	0U12	7U01	aU-7	0US6	1aU04	DDe
y n8%eor 5mb	97 1	1U74	1U20	1U0a	1U7-	16U64	DDe
y n8%eor 5mb	96 1	2US-	1U09	2U7-	2U11	1aUS1	DDe
y n8%eor 5mb	90 1	1U74	1U27	1U09	1U7-	10U71	DDe
y n8%eor 5mb	9a 1	1U49	1U-1	1Uaa	1U76	1aU7a	DDe
ur no%b mb	17S 1						dDl
ur no%b mb	17S 2						dDl
ud kr 8	6S 2	127U16	126U6-	1- SU-1	120U-0	2USa	DDe
NEnl DEnpm	- 1 2	6a4US2	640U96	691U7-	604U71	- U47	DDe
NnTwl mb	- 9 2	190- U77	1909U-6	2Sa1Ua1	2S11U70	- US-	DDe
CEnomb	1S- 1				1S2		G
CEnomb	1S- 2				1S0		G
l dw5omb	47 1				1S4		G
l dw5omb	47 2				99		G
l r 8 5mb	a2 1	2SU10	10U2a	24U77	2SU66	10U01	DDe
l r 8 5mb	00 2	4- Ua6	7- Uaa	62U79	7- U44	10U7-	DDe
l r 8 5mb	0a 2	21U01	22U27	20U27	2- U04	12Ua6	DDe
l 8dn5	2a 1	140U00	1- 2U77	19SU96	170US9	19U29	DDe
l 8gr p	1S0 1	9U-1	aUSS	1SUaS	9U-0	14U94	DDe
l 8gr p	1S9 1	9U2-	0U92	1SUa2	9U-2	17U61	DDe
l nomb	2- 2	2S4U4a	211Ua2	211U-S	2S9U2S	1U96	DDe
l Tpn5Tmb	a6 1	4- U40	- 6U92	72U92	44U4-	1aU11	DDe
l Tpn5Tmb	aa 1	4- U46	- 6U97	72U17	44U19	10U26	DDe
l m8mp	- 4 1	aa1US-	19- 2U-S	1496Ua0	4- aUa2		DDe
Ar pemb	179 1				1S6		G
Ar pemb	179 2				1S7		G
AEw8mb	2S- 1	9U21	aU2-	11U4a	9U64	10U-S	DDe
AEw8mb	2S7 1	9U-	aU26	11U2a	9U62	17Ua0	DDe
Ad5	11a 1	2U2-	1Ua6	2U96	2U-7	2- Ua9	DDe
AdTw5mb	40 1	- 4- U29	299U-	426U17	- 76U27	1aUSa	DDe
Rpw5mb	2- a 1	1U0-	1U79	2U1S	1UaS	14U77	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S6	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFaSl	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :q dOmpr o:J	2S2- S0 12:19.J2aJ11	&wTwFd8 :u wb r :J	1- 4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJ:v n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	1- SU6	1- 1ua9	1- 4U76	1- 2U20	1U61	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	a9 1				1S9		G
YTTpcmb	a9 2				1S9		G
Zc5d	66 2	24SUSa	24aU4a	277U27	240U9-	- USS0	DDe
Zqpdn5cmb	9S 1	- U44	2U6a	- U90	- U0	19U2S	DDe
Zqpdn5cmb	91 1	- U0-	2U67	- Ua1	- U4S	19USS9	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	1- 026U21	1- 060U6-	1- 011US-	1- 0- 4U76	SU21	I I b
c n&Amon%	121 1	SU04	SU08	1U1-	SU37	24U22	I I b
c rsenAq	05 2	26U-5	26U27	26U30	26U5S	1U2S	I I b
BarAum	1- 5 1	- 28U40	- 66U16	5- SUS1	4S8U21	26U25	I I b
BarAum	1- 0 1	- 24U45	- 6- U50	5- 0U-S	4S8U44	20U04	I I b
Ber%lAum	7 1	1U40	1U65	2U2-	1U08	22U-1	I I b
BAsmu&E	2S7 1				11S		G
BAsmu&E	2S7 2				1S7		G
BromAne	81 1						ql s
v aOmAum	1S8 1	1U42	1U0-	2U4-	1U36	20U0-	I I b
v aOmAum	1S6 1	2U-	1US8	SU16	1US8		I I b
v aOmAum	111 1	1U-8	1U52	2U2-	1U01	26U36	I I b
v alqAum	4- 1	15708U-S	16048U-1	24676U5S	17141US4	25U22	I I b
v alqAum	44 1	16101U17	1084- U50	25741U74	17785U50	26U15	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	- 5 1						ql s
v ElorAne	- 5 2						ql s
v EromAum	52 2	22U00	22U72	22U0S	22U07	SU48	I I b
v obal&	57 2	16U76	16U08	16U4S	16U01	1U02	I I b
v ol I er	6- 2	07U8S	81U42	82U-6	81U17	1U57	I I b
t %sI rosAum	156 1						ql s
t %sI rosAum	156 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	165 1				1S8		G
h olmAum	165 2				1S7		G
DnOAum	115 1				1S0		G
DnOAum	115 2				1S-		G
Don	54 2	42517U2S	4268- U84	42077U54	42660U5-	SU--	I I b
Don	56 2	424S4U10	4- - 71U57	4284SU26	42808U60	1U15	I I b
Don	50 2	42847U00	42187U8-	4- 286U85	42005U48	1U27	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	02U42	08U27	117U85	7SU17	28U60	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	67U7	04U7	114U26	86U5	28U0	I I b
LeaO	2S8 1	02U41	06U5S	110U44	88U07	28U55	I I b
LA&EAum	6 1				1S1		G
y aMhesAum	24 2	6470U28	6610U1-	656- U0S	6557U0	SU72	I I b
y anManese	55 2	754U54	70- U87	76- U67	76- U80	1U5-	I I b
y ol%bOenum	74 1	1SU S	11U41	16U56	12U57	24U25	I I b
y ol%bOenum	75 1	1U05	1U70	2U82	2U18	25U71	I I b
y ol%bOenum	76 1	2U06	2U81	4U7	- U2	20U71	I I b
y ol%bOenum	70 1	1U7-	2U50	2U82	2U28	2SU88	I I b
y ol%bOenum	78 1	1U84	1U78	2U01	2U18	21U44	I I b
NeoO%mAum	15S 1						ql s
NeoO%mAum	15S 2						ql s
NAqkel	6S 2	- 2U12	- - U52	- - U4-	- 2U85	2U54	I I b
PEosI Eorus	- 1 2	- 14SU0-	- - 74U52	- - 55U50	- 276U61	4U14	I I b
Po&assAum	- 7 2	5S84U71	52- 6U18	5142U12	5154U4S	1U48	I I b
CEoOAum	1S- 1				1S5		G
CEoOAum	1S- 2				1S7		G
pqanOAum	45 1				1S8		G
pqanOAum	45 2				1S1		G
pelenAum	82 1	1U2S	1U51	2U54	1U58	26U8-	I I b
pelenAum	00 2	5SU51	- 4U87	- 4U54	- 7U78	22U82	I I b
pelenAum	08 2	4U76	6U5-	7U4	6U74	- 1U74	I I b
pAAqon	28 1	212U8	22- U2	- - 2U2S	255U70	25U88	I I b
pAger	1S0 1	SU4	SU8	SU5-	SU42	2- U56	I I b
pAger	1S7 1	SU6	SU7	SU50	SU44	25U80	I I b
poOAum	2- 2	166U20	101U77	100U88	102U55	- U0	I I b
p&ona&Aum	86 1	14- U7-	152U4S	224U5	10- U56	25U46	I I b
p&ona&Aum	88 1	147U24	161U81	2- 6U67	182U58	25U87	I I b
pulfur	- 4 1	1- 0SU52	14- 5U56	2568U51	08U86		I I b
i erbAum	157 1				1S0		G
i erbAum	157 2				1S0		G
i EallAum	2S- 1	SU S	SU1	SU46	SU6	25U44	I I b
i EallAum	2S5 1	SU1	SU S	SU45	SU5	24U17	I I b
i An	118 1	1U54	1U56	2U80	1U77	- 8U57	I I b
i A&anAum	40 1	1SSU81	1S6U72	155U5S	121U58	24U05	I I b
RranAum	2- 8 1	2U80	2U71	4U47	- U42	26U70	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAn&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	51 2	58U07	50U67	58U47	58U2	SU78	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				112		G
Y&&Aum	87 2				115		G
ZAnq	66 2	- S5U1-	- S- US7	- S0U66	- S5U27	SU05	I I b
ZAqonAum	7S 1	4U04	5U45	0U7-	6US4	20U68	I I b
ZAqonAum	71 1	4U78	5U42	0U08	6US6	24U86	I I b

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On:7/14/2023 8:48:56 AM
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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. J1t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:179-49SJ	t s&s. Ae:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	14112F14	1- J17FJ6	1- 444F2-	1- 072FSJ	2F4-	l l b
cn&Amonh	121 1	SF04	SF6J	SFJS	SF04	JFS7	l l b
crwenAq	0%2	26F7%	20F%6	26F%0	20FS-	1FJ4	l l b
BsrAum	1- %1	- J%F6%	- 6JF41	- 00F6S	- 00F22	2F27	l l b
BsrAum	1- 0 1	- J4F61	- J2F22	- 0JF70	- J1F74	SF04	l l b
BerhFAum	7 1	1F60	1F66	1F60	1F60	SF- 6	l l b
BAumu&E	2S7 1				111		G
BAumu&E	2S7 2				1SJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	1FJ%	2F- 6	1F7S	2FS4	1- F7S	l l b
RsOmAum	1S6 1	2FS7	SF72	2F%%	SF46		l l b
RsOmAum	111 1	1F47	1F4J	1F- S	1F4-	0F%7	l l b
RsRqAum	4- 1	1J2- SFS7	10J07F16	1JS40F22	1JS%2F16	SF70	l l b
RsRqAum	44 1	17S%SF1-	1J476F0%	1J- 76F%S	1J640F07	1FJ7	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- %1						ql w
REFrAne	- %2						ql w
REromAum	%2 2	2- F61	2- F21	2- F14	2- F- 2	1FS7	l l b
RobsR&	%7 2	10FS0	16FJ7	16F24	16F0-	2F61	l l b
RoI I er	6- 2	J2F- J	JSF- %	07F%.	JSF0%	1FJ1	l l b
t hwI rowAum	1%6 1						ql w
t hwI rowAum	1%6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFAum	16S 1						ql w
HsOoFAum	16S 2						ql w
y oFmAum	16%1				112		G
y oFmAum	16%2				1S0		G
DrOAum	11%1				11S		G
DrOAum	11%2				1S1		G
Don	%4 2	4- 261F4-	42J42F%S	4261JF6J	427S0F%.	SF06	l l b
Don	%6 2	42772F4S	4- 121F22	416%4FJ%	42%J7F47	1F71	l l b
Don	%0 2	- 7746F0%	- 702%F- 6	- J467F- %	- 7- JSF4J	2FS2	l l b
KrhI &on	J- 1						ql w
LesO	2S6 1	J0FS1	J4F2J	J4F0%	J%F- %	1F01	l l b

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Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. J1t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179-49SJ	t s&s. Ae:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF:RonqF	Ronq5pt	Un&w
LesO	2S0 1	J- P%7	J2F76	JSF07	J2F44	1F0J	I I b
LesO	2SJ 1	J%F64	J- FSJ	J2F7-	J- FJ7	1FJ2	I I b
LAEAum	6 1				1S-		G
MsgnewAum	24 2	6016F6-	6664F20	6442F6J	66S0FJ6	2F2S	I I b
Msngsnewe	%%2	7J%FJS	704FJ-	742P%7	760F04	2F- 2	I I b
MoPbOenum	74 1	11F26	11F2J	11F64	11F- 7	1FJ%	I I b
MoPbOenum	7%1	1F6J	1F0J	1FJ-	1F06	4F1J	I I b
MoPbOenum	76 1	2FJ1	2F67	2FJ1	2F00	2F4J	I I b
MoPbOenum	70 1	1FJS	1F6%	1F0J	1F04	4FJ-	I I b
MoPbOenum	7J 1	1FJ2	1F0J	1F07	1FJS	SF76	I I b
NeoOhmAum	1%S 1						ql w
NeoOhmAum	1%S 2						ql w
NAqkeP	6S 2	- 4F22	- 2FJ1	- 1F77	- - FS1	- F42	I I b
8 EowI Eoruw	- 1 2	- - 74P%2	- - 10F7%	- - - 0F6-	- - %SFS4	1F17	I I b
8 o&swwAum	- 7 2	%271F11	%14JF67	%S4JF- %	%162F01	2F- 6	I I b
5 EoOAum	1S- 1				1S7		G
5 EoOAum	1S- 2				1SJ		G
pqsnOAum	4%1				11S		G
pqsnOAum	4%2				77		G
peRenAum	J2 1	1FS6	1F22	1F1S	1F12	0F21	I I b
peRenAum	00 2	- 7F2J	- %F1S	- JF06	- 0F01	6FS4	I I b
peRenAum	0J 2	7F10	7FS4	11F64	7F7%	14F0-	I I b
pARqon	2J 1	242F66	242F- J	2- 7F72	241F6%	SF62	I I b
pARer	1S0 1	SF46	SF44	SF4S	SF44	0F- 6	I I b
pARer	1S7 1	SF4-	SF4%	SF41	SF4-	4F04	I I b
poOAum	2- 2	162P%	16SF07	1%6P%0	1%7F76	1F71	I I b
p&ona&Aum	J6 1	1%JP%6	161F6%	164FS1	161F4S	1F67	I I b
p&ona&Aum	JJ 1	167F07	10SF26	102F61	10SFJ7	SFJJ	I I b
pulPur	- 4 1	11SJFS0	142JF10	144SF02	1- 2%F6%		I I b
i erbAum	1%7 1				111		G
i erbAum	1%7 2				1S0		G
i EsPAum	2S- 1	SF- 2	SF- S	SF- 2	SF- 2	4F21	I I b
i EsPAum	2S%1	SF- 1	SF- S	SF2J	SF- S	%FS6	I I b
i An	11J 1	1F62	1F6-	1F01	1F66	- F12	I I b
i A&snAum	40 1	114FS%	111F46	112F4%	112F6%	1F16	I I b
UrsnAum	2- J 1	- F24	- F17	- F24	- F22	SFJJ	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. J1t	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-49SJ	t s&s. Re:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	%l 2	6SP%J	%7FSJ	%JFS0	%7F24	2F1-	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	J7 1				116		G
Y&&Aum	J7 2				112		G
ZAnq	66 2	- 1%F66	- S6P%l	- S1F-6	- S0FJ4	2F-%	l l b
ZAqonAum	7S 1	%F4J	%P%7	%F01	%F6S	2FSJ	l l b
ZAqonAum	71 1	%P%7	%F64	%F42	%P%%	2F1%	l l b

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Inst Id :P8

LBabber Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMavEFoU	vEFo7DT	CFqP
dNerqFqer	23X2	-1J-U00	-222U64	-OJ4UrO	-14-Urn1	2U6m	ttS
dFiqEFy	121X1	OU1-	OU14	OU13	OU1J	1-U04	ttS
dIPpFqp	3JX2	6U4O	6Urn6	6U22	6U40	JU11	ttS
BlIqer	1-JX1	3OU02	3mUOO	30U2J	3JU36	6U61	ttS
BlIqer	1-3X1	31U40	30U61	30U00	33UO-	6U24	ttS
BplyNqer	0X1	OUJ2	OUJ6	OUJ0	OUJ6	0U4m	ttS
BqPreih	2O0X1				112		%
BqPreih	2O0X2				00		%
BlErqFp	m1X1						otP
vlRrqer	1OmX1	OU20	OU23	OU4-	OUJ-	26UJm	ttS
vlRrqer	1O6X1	X4UJ4	X-UJO	X4U62	X4U1J		ttS
vlRrqer	111X1	OU2J	OUJ1	OUJ1	OU20	1-U1J	ttS
vlNqer	4-X1	-4-mUOm	-6J6U01	-3J0U42	-61mU14	4UJ4	ttS
vlNqer	44X1	-4-2U60	-6-2U3m	-3J1U6m	-6OJU32	4U43	ttS
vlISEF	12X1						otP
vlISEF	12X2						otP
vhNEIqFp	-JX1						otP
vhNEIqFp	-JX2						otP
vhIErqer	J2X2	JUJ4	JU43	JU00	JUJO	-U61	ttS
vESINN	J0X2	-Urn-	-U03	-U63	-Urn2	-U0J	ttS
vEttpl	6-X2	1mUrn4	10U10	1mU44	1mUrn2	2UOO	ttS
TyPtIEPqer	1J6X1						otP
TyPtIEPqer	1J6X2						otP
ISqer	164X1						otP
ISqer	164X2						otP
GlRENqFqer	16OX1						otP
GlRENqFqer	16OX2						otP
9ENqer	16JX1				112		%
9ENqer	16JX2				1OO		%
&FRqer	11JX1				114		%
&FRqer	11JX2				0-		%
&EF	J4X2	0O3OU1m	0-44U12	mmJJU3J	0O0OU02	2U60	ttS
&EF	J6X2	06mmU06	000OUrn-	0JOOU0O	0320U0O	2UJO	ttS
&EF	J3X2	0O30U0O	010JUJ2	m3m3U62	0O2OU0J	2UJ-	ttS
KlytiEF	m-X1						otP
LplR	2O6X1	1JUJ6	13U41	13U00	16U00	3U43	ttS

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Inst Id :P8

LBabber Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMavEFoU	vEFo7DT	CFqP
LplR	2O3X1	1JU10	16U-m	13U-J	16U-1	6U6-	ttS
LplR	2OmX1	1JUJ2	16Uu3	13U34	16U31	6U6m	ttS
Lqihqer	6X1				1OO		%
HlMFpPqer	24X2	1401U10	1J-0U44	1413U0-	14m2UuJ	4U1-	ttS
HlFMlFpPp	JJX2	221UOO	2-OU4m	22OU24	22-U01	2UJJ	ttS
HENYSRpFer	04X1	2U14	2U-m	2U-3	2U-O	JU36	ttS
HENYSRpFer	0JX1	OU-2	OU40	OU4O	OU4O	22U1-	ttS
HENYSRpFer	06X1	OUJ4	OU66	OU6-	OU61	1OU26	ttS
HENYSRpFer	03X1	OU41	OU42	OU41	OU41	1UOO	ttS
HENYSRpFer	0mX1	OU-J	OU4-	OU44	OU41	11UJ3	ttS
bpERyrqer	1JOX1						otP
bpERyrqer	1JOX2						otP
bqpkpN	6OX2	3U2m	3U06	3U46	3UJ3	4U64	ttS
uhEPthElePP	-1X2	3JJUO2	3O-U6m	J30U2-	630U61	1-U-6	ttS
uEilPPqer	-0X2	116mUJJ	1216UuO	11-0U16	1134Uu4	-U-4	ttS
7hERqer	1O-X1				112		%
7hERqer	1O-X2				0m		%
DolFRqer	4JX1				111		%
DolFRqer	4JX2				0O		%
DpNqFqer	m2X1	OU16	OU2-	XOU11	OUOO	10JU20	ttS
DpNqFqer	33X2	11U3m	3UOO	2OU63	1-U1J	J2U3J	ttS
DpNqFqer	3mX2	2U36	2U43	1U2O	2U1J	-mU64	ttS
DqNqEF	2mX1	4JUJ2	4mUJ-	JOU0J	4mU-4	JU62	ttS
DqNqpl	1O3X1	OUOm	OU1O	OUOm	OUOO	11UJO	ttS
DqNqpl	1OOX1	OUOO	OUOm	OU11	OUOO	1JU42	ttS
DERqer	2-X2	2muu3	-1U2-	23U-0	20U13	6U64	ttS
DilEFiqer	m6X1	-1U11	-4UOJ	-4U40	--U22	JUJ2	ttS
DilEFiqer	mmX1	-1UO6	--UOO	--Uu1	-2U02	4U0O	ttS
DeNel	-4X1	X-10OU20	X23-mU04	X24m3U-	X2mOJUJ2		ttS
cplSqer	1J0X1				11-		%
cplSqer	1J0X2				06		%
chlNqer	2O-X1	OUOJ	OUO3	OUOO	OUO3	23Uu3	ttS
chlNqer	2OJX1	OUO3	OUOm	OUOm	OUOm	mUOO	ttS
cqF	11mX1	OU2m	OU-0	OU20	OU-2	10U1J	ttS
cqlFqer	43X1	2OU01	2-U-4	2-U62	22U62	6UJ0	ttS
CIlFqer	2-mX1	OUJ3	OU6-	OU63	OU62	3Uu6	ttS

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiabl r pas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFa loiElas	J
TlipaAacq padonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNabl r pas	1-3d7 .UR

ul llr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMav EFoU	vEFo7DT	CFqP
VlFlRqer	J1X2	1-U3	1-U00	1-U43	1-U61	2U43	ttS
YiiplSqer	132X1						otP
YiiplSqer	132X2						otP
YiiplSqer	136X1						otP
YiiplSqer	136X2						otP
Yiilqer	m0X1				112		%
Yiilqer	m0X2				04		%
ZqFo	66X2	60Um6	32U43	63U03	60UmO	-Um8	ttS
ZqoEFqer	0OX1	1U0m	1U16	1U2O	1U14	JU-O	ttS
ZqoEFqer	01X1	OU0m	1U06	1U1-	1U06	6Um2	ttS

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	14627F78	14480F7h	14010F18	14611F0S	SF07	I I b
c n&Amon%	121 1	18FS-	26F82	22F41	22F42	17F61	I I b
c rsenAq	0h 2	- 4F02	- 4F4h	- 0F22	- hF46	4F- 2	I I b
BarAum	1- h 1	020F4-	1111F- 4	7S0F- 8	71hF- 8	2SF78	I I b
BarAum	1- 0 1	00- F4S	116- F81	767F- 6	768F86	2SF1h	I I b
Ber%lAum	7 1	11Fh7	16F24	12F82	1- Fhh	10F8S	I I b
BAsmu&E	2S7 1				77		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	7Fh8	1- F62	11F22	11F40	10F01	I I b
RaOmAum	1S6 1	hF40	1- F14	0F41	8F60	46FSS	I I b
RaOmAum	111 1	1SF84	16F62	1- F20	1- Fh8	21F- h	I I b
RalqAum	4- 1	16h00F8-	24407F0-	2S2h7F80	2S4- 7F14	17F- h	I I b
RalqAum	44 1	10210F81	2h1ShFS6	2S77- F8-	211ShFh0	18F67	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	66F1-	66F74	66FS8	66F- 8	SF0-	I I b
Robal&	h7 2	128F41	127FSS	1- SF80	127F4-	SF77	I I b
RoI I er	6- 2	128F- 2	1- SFS1	128F- h	128F87	SF0h	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				1SS		G
y olmAum	16h 2				1S0		G
DnOAum	11h 1				77		G
DnOAum	11h 2				77		G
Don	h4 2	4- 827F- 8	42h88F06	4- 4- 8F7h	4- 28hF0S	1F40	I I b
Don	h6 2	421h1F8h	424h6F62	4- SS8F- 1	42h- 8F7-	1FS2	I I b
Don	h0 2	4- S46F07	4- - h6F8S	4- 2S1FSS	4- 2S1Fh-	SF- 6	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	07F41	121Fh7	78F8S	77F7-	21F1-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
LeaO	2S0 1	06F8-	110F16	74F66	76F22	21FSS	I I b
LeaO	2S8 1	08F28	12SF02	7hF64	78F21	21F0-	I I b
LA&EAum	6 1				71		G
MagnesAum	24 2	66S0F1-	66S1FS-	6022F40	664- Fh4	1FS-	I I b
Manganese	hh 2	1S04F0h	1S0hFh6	1S06F88	1S0hF0-	SF1S	I I b
Mol%bOenum	74 1	7F78	14F82	12F1h	12F- 2	17F60	I I b
Mol%bOenum	7h 1	1Fhh	2F- 0	1F86	1F7-	21F2h	I I b
Mol%bOenum	76 1	2F47	- F6-	2F82	2F78	17F01	I I b
Mol%bOenum	70 1	1Fhh	2F- 1	1F7h	1F74	17F60	I I b
Mol%bOenum	78 1	1Fh-	2F44	1F72	1F76	2- F17	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	1h- F42	1h- F6S	1hhFS2	1h4FS1	SFh0	I I b
PEosI Eorus	- 1 2	- 1hSFh7	- - - 0F4-	- S88F0-	- 172F2h	4FS6	I I b
Po&assAum	- 7 2	h220F24	h28- F77	h- - SF0-	h28SF6h	SF78	I I b
5 EoOAum	1S- 1				70		G
5 EoOAum	1S- 2				1S4		G
pqanOAum	4h 1				77		G
pqanOAum	4h 2				77		G
pelenAum	82 1	17F02	28Fh-	22F01	2- F6h	18F74	I I b
pelenAum	00 2	0hF40	hSF- 2	hSF- 8	h8F02	24F67	I I b
pelenAum	08 2	28F10	28F1h	- SF68	27FSS	hFS1	I I b
pAAqon	28 1	211Fhh	- - 1FS8	204F- S	202F- 1	21F76	I I b
pAver	1S0 1	8FS2	12F22	7F87	1SFS4	2SF70	I I b
pAver	1S7 1	8F11	12F4S	1SF1h	1SF22	21FS1	I I b
poOAum	2- 2	2S6F60	217F40	214F62	21- Fh7	- FS2	I I b
p&on&Aum	86 1	140F2-	217F8h	107F- 4	182F14	17F78	I I b
p&on&Aum	88 1	1h- F77	227F- 6	188F84	17SF0-	17F08	I I b
pulfur	- 4 1	1870F61	1810F64	- 16F8h	1- 2F20		I I b
i erbAum	1h7 1				1SS		G
i erbAum	1h7 2				1Sh		G
i EallAum	2S- 1	8F1S	12F7S	1SF- 0	1SF46	22F74	I I b
i EallAum	2Sh 1	8F42	12F0h	1SFS7	1SF42	2SF70	I I b
i An	118 1	1F70	2F87	2F2h	2F- 0	17F7S	I I b
i A&anAum	40 1	1S7FS1	1h1F7-	12hF66	128F86	16F07	I I b
UranAum	2- 8 1	- FSh	4F08	- F72	- F72	22FS8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	10- F40	104F4-	102FSS	10- F- S	SF01	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				1S4		G
Y&&Aum	87 2				1S7		G
ZAnq	66 2	42hF16	4- 1Fh0	4- - F6S	4- SF11	1FS2	I I b
ZAqonAum	7S 1	hFS0	0F4h	6FS1	6F18	17F48	I I b
ZAqonAum	71 1	4F7S	0F- 4	6F2-	6F16	17FB6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:D :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PA R&psb I Pr:D :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Uo

8sSsb r & S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMJv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23X2	23N6U40	2N2- UO-	2N24U16	2N11U2-	OU36	I l e
c R&b nRy	121X1	OU16	OU1	OU1-	OU1	12U63	I l e
c Sw r RAq	3 X2	U44	UN0	U30	U31	4U1	I l e
Bs SAmb	1- X1	N1UN-	30U-	36U -	30U24	- U	I l e
Bs SAmb	1- 3X1	N2UO-	33U2O	36U33	3NU63	- U31	I l e
Br SyPAmb	0X1	OU-3	OU-6	OU-	OU-	6U6O	I l e
BAmb m&a	2OOX1				1O6		%
BAmb m&a	2OOX2				1O6		%
BSmb ARr	N1X1						ql w
v sob Amb	1ONX1	OU3O	OU46	OU-	OUO	- U0	I l e
v sob Amb	1O6X1	X- UN	X4U14	X UO6	X4U-		I l e
v sob Amb	111X1	OU-O	OU2	OU2	OU23	11U1	I l e
v sRqAmb	4- X1	- N0 U16	- 660UO	- 6N1U02	- 34NUN6	- UN	I l e
v sRqAmb	44X1	- N04UNO	- 3O- U0O	- 316UO4	- 331UN	2UN-	I l e
v sSenR	12X1						ql w
v sSenR	12X2						ql w
v hPSRr	- X1						ql w
v hPSRr	- X2						ql w
v hSmb Amb	2X2	4UN2	4UN6	4U3O	4U30	1U31	I l e
v nesR&	0X2	- U4	- U4-	- U4-	- U44	OU-O	I l e
v nI l r S	6- X2	13U4O	13UO3	16UN	13U1O	1U6-	I l e
t ywl SnwAmb	1 6X1						ql w
t ywl SnwAmb	1 6X2						ql w
FSeAmb	164X1						ql w
FSeAmb	164X2						ql w
GsonPARAmb	16OX1						ql w
GsonPARAmb	16OX2						ql w
9 nPb Amb	16 X1				1O3		%
9 nPb Amb	16 X2				1O6		%
DRoAmb	11 X1				1O		%
DRoAmb	11 X2				1OO		%
DSmR	4X2	NO34U41	N101UN4	N- 1 U33	N104UO1	1U43	I l e
DSmR	6X2	NN 6U32	N303UN6	N60NU20	N3N4U20	OU01	I l e
DSmR	3X2	N24 U3-	N2- 1UN-	N132U6	N216U31	OU43	I l e
KSyl &aR	N- X1						ql w
Lr so	2O6X1	1NU-2	13U4-	13U22	13U66	- U1	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PA R&psb I Pr:Dr :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0c EF. Ud

8sSsb r &S	Hsww	v nREr I 1	v nREr I 2	v nREr I -	cgMJv nRqU	v nRqEpt	CR&w
Lr so	2O3X1	13U23	16UN-	16U3	16U0	1U6-	I I e
Lr so	2ONX1	13U04	13U00	16U0O	13U-1	- U10	I I e
LA&nAmb	6X1				0		%
HsMRr wAmb	24X2	1- - 2U1O	1- 33U13	1- - 6U03	1- 4NU4	1UN	I I e
HsRMsRr w	X2	103U42	2O2UNN	2OOU23	2OOU10	1U-6	I I e
HnPyeor Rmb	04X1	2U N	2U-0	2U10	2U-0	NU21	I I e
HnPyeor Rmb	0 X1	OU4	OU-3	OU4O	OU41	0U32	I I e
HnPyeor Rmb	06X1	OU63	OU6O	OU-0	OU62	6U6-	I I e
HnPyeor Rmb	03X1	OU-0	OU-0	OU-	OU-3	0U-3	I I e
HnPyeor Rmb	0NX1	OU41	OU-3	OU4O	OU-0	U12	I I e
ur noyb Amb	1 OX1						ql w
ur noyb Amb	1 OX2						ql w
uAqkr P	6OX2	6UN4	6UNO	6U43	6U31	- UOO	I I e
8hnwl hnSnw	- 1X2	01U3-	646U21	62NU1	622U1	4U43	I I e
8n&swwAmb	- 0X2	1O3 UN6	1O 4U03	1O 4U01	1O61U01	1U14	I I e
EhnoAmb	1O- X1				1O4		%
EhnoAmb	1O- X2				1O3		%
pqsRoAmb	4 X1				1O4		%
pqsRoAmb	4 X2				03		%
pr PRAmb	N2X1	XOU1	OU11	XOU22	XOU21		I I e
pr PRAmb	33X2	4U06	14U14	NU40	0U2O	OU-6	I I e
pr PRAmb	3NX2	2U24	1U40	- U-1	2U-	- NUNO	I I e
pAAqnR	2NX1	2U-0	40U3O	40U1N	OU42	- U42	I I e
pAgr S	1O3X1	OU0N	OU1O	OU00	OU00	1OU04	I I e
pAgr S	1O0X1	OU00	OU1O	OU1O	OU1O	4U-	I I e
pnoAmb	2- X2	10U10	16U00	2OU3O	1NU66	12U61	I I e
pSmR&Amb	N6X1	- UN2	- 4U4O	- 4UNO	- U01	2U0N	I I e
pSmR&Amb	NNX1	- 6U14	- 4U20	- 4U-2	- 4U02	- U04	I I e
pmPmS	- 4X1	X22 U34	X23N0U4O	X23 4U04	X26OOU0-		I I e
i r SeAmb	1 0X1				1O6		%
i r SeAmb	1 0X2				1O		%
i hsPAmb	2O- X1	OU1O	OU0N	OU0N	OU00	3U06	I I e
i hsPAmb	2O X1	OU0N	OU0N	OU06	OU0N	14U41	I I e
i AR	11NX1	OU41	OU-2	OU20	OU-4	1NU43	I I e
i A&sRAmb	43X1	2- U42	22U02	2- U24	2- U10	1U1O	I I e
CSsRAmb	2- NX1	OU60	OU6	OU6-	OU66	4U	I I e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse:psb l Pr:D :J	5 - 440XO1L7	DRw&Smb Rr &usb r :J	8 N
v PR&psb l Pr:D :J	H9 O. N1L	t ARr&nR. sq&aSJ	
t s&:T:i Ao r :cqdmSo:J	2O2- XO3X12:10J4- JO4	t s&s. Ar:usb r :J	1- 0c EF. Uo

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMJv nRqU	v nRqEpt	CR&w
VsRsoAmb	1X2	11U0N	12U4	11U0N	12U14	2U24	l l e
Y&&SeAmb	132X1						ql w
Y&&SeAmb	132X2						ql w
Y&&SeAmb	136X1						ql w
Y&&SeAmb	136X2						ql w
Y&&Amb	N0X1				1O6		%
Y&&Amb	N0X2				1O-		%
ZARq	66X2	64U1N	6- U12	6- U	6- U61	OUN4	l l e
ZASqnRAmb	0OX1	1U21	1U1-	1U14	1U16	- U6O	l l e
ZASqnRAmb	01X1	1U1-	1UO6	1U21	1U1-	6U0	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	- 6244F4h	- 6186F00	- 66h1F0:	- 6- 61FSS	SF0S	I I b
c n&Amon%	12171	SFh4	SF4S	SF4h	SF46	1hFh-	I I b
c rsenAq	0h72	1SF4:	11F1S	1SF: S	1SF8-	2F80	I I b
BarAum	1- h71	12- F- 4	1S8FSh	1S8Fh6	11- F- 2	0F66	I I b
BarAum	1- 071	12SF: :	11SF0h	1S: F- 1	11- F68	hF6S	I I b
Ber%lAum	: 71	SF60	SFh8	SF61	SF62	0F- 2	I I b
BAsmu&E	2S: 71				1S0		G
BAsmu&E	2S: 72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	SF: 6	SF2h	SFh0	SF6S	h: F00	I I b
RaOmAum	1S671	71FS:	76F26	7- F6-	7- F66		I I b
RaOmAum	11171	SF4S	SF- S	SF- -	SF- 4	14F0h	I I b
RalqAum	4- 71	14814F- :	1- 228FS4	12: 88F40	1- 606F: 0	0F26	I I b
RalqAum	4471	1h- : : F40	141h2F: h	1- h- hF08	14- 62F04	6F61	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	02FS:	02F- 0	04F04	0- FS0	1F: :	I I b
Robal&	h: 72	- 2F- 4	- 2F- h	- - F80	- 2F8h	2F68	I I b
Rol I er	6- 72	: : F08	1SSF- 6	1S- F: 0	1S1F- 0	2F24	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				1S:		G
KolmAum	16h72				1S0		G
DnOAum	11h71				1Sh		G
DnOAum	11h72				: :		G
Don	h472	6128: F04	6S028F11	62- 2hF44	61440F06	1F- 2	I I b
Don	h672	6S4hSF- 6	6140SF26	61: 0- FS:	612: 0F: S	1F20	I I b
Don	h072	62h84F- 6	610: 0F21	62: 82Fh6	624h4F01	SF: 0	I I b
k r%l &on	8- 71						ql s
LeaO	2S671	1hFSh	14F44	1- F14	14F21	6F80	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	14F. 2	1- F02	12F61	1- F0h	8F41	I I b
LeaO	2S871	1hF10	1- F. -	12F. 8	14FS-	0F8h	I I b
LA&EAum	671				: :		G
MagnesAum	2472	221- - F= S	22- S0Fh1	22h- hF02	22- 2hFh1	SF. S	I I b
Manganese	hh72	11S2FS6	1S82F8-	1122FS0	11S2F= 2	1F08	I I b
Mol%bOenum	: 471	2F. 2	2F. h	2F04	2F80	- F84	I I b
Mol%bOenum	: h71	1FSS	SF84	SF81	SF88	11F42	I I b
Mol%bOenum	: 671	1F18	1F1S	1FSh	1F11	hF86	I I b
Mol%bOenum	: 071	1FS1	SF8:	SF. -	SF. 4	6F2-	I I b
Mol%bOenum	: 871	SF. 2	SF81	SF0h	SF8-	1SF16	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	118FS6	118Fh0	121Fh4	11: F= :	1Fh0	I I b
PEosI Eorus	- 172	2- 46F1:	222: F04	2- 4hF64	2- S0F1:	2F. 1	I I b
Po&assAum	- : 72	1- 8: F22	1- 80F14	144- F18	14S6Fh2	2F26	I I b
5 EoOAum	1S- 71				1Sh		G
5 EoOAum	1S- 72				1Sh		G
pqanOAum	4h71				1S8		G
pqanOAum	4h72				: :		G
pelenAum	8271	SFh4	7SF= -	SF24	SF1h	2: - F. S	I I b
pelenAum	0072	18F10	2SF16	2- F2:	2SFh4	12Fh6	I I b
pelenAum	0872	hF01	4F18	4F0-	4F88	1hF. -	I I b
pAAqon	2871	211FS0	1: SF= 4	18hF. 4	1: hF0:	6F86	I I b
pAver	1S071	SF14	SF1-	SF1-	SF1-	4F41	I I b
pAver	1S: 71	SF1h	SF11	SF14	SF1-	16FS:	I I b
poOAum	2- 72	0- 8F88	0- 1F. 4	00hF14	048F6h	- F1S	I I b
p&onA&um	8671	86F0h	8- F22	81F. :	8- F. :	2F. h	I I b
p&onA&um	8871	88FSS	81F48	0: F28	82F. 2	hF40	I I b
pulVur	- 471	718S4F1:	72: - 8F0S	7- S2SF2-	72h80F01		I I b
i erbAum	1h: 71				1S:		G
i erbAum	1h: 72				1S6		G
i EallAum	2S- 71	SF1-	SF12	SF1S	SF12	1- F80	I I b
i EallAum	2Sh71	SF1-	SF1S	SF11	SF11	1- Fh6	I I b
i An	11871	1FS-	SF. h	SF00	SF. 2	14F68	I I b
i A&anAum	4071	44- F8h	4S2FS:	- : hF0:	41- F. 1	6F= 1	I I b
UranAum	2- 871	SFh-	SFhS	SF48	SFhS	hF6-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	111F26	11SF01	112F: :	111F6h	1FS6	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				1S:		G
Y&&Aum	8: 72				1S4		G
ZAnq	6672	1- 1F0h	1- 1F01	14SF28	1- 4Fh8	- F60	l l b
ZAqonAum	: S71	1F2h	1F2h	1F16	1F22	4F- h	l l b
ZAqonAum	: 171	1F16	1F1-	1FS0	1F12	- F88	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	- 816hFS8	- 66: 4F: S	- 81- 1F26	- 066- F0h	2F2-	l l b
cn&Amon%	12171	SFh-	SFh4	SF48	SFh2	hF66	l l b
crsenAq	0h72	41F1:	- 6F- -	- 0F: 4	- 8F48	6F4-	l l b
BarAum	1- h71	1h6F11	1h6F18	1h8F10	1h6FB2	SF0h	l l b
BarAum	1- 071	1h6F61	1h8F- S	16- F20	1h: F- :	2F10	l l b
Ber%lAum	: 71	SF66	SF64	SF68	SF66	2F6-	l l b
BAsmu&E	2S: 71				1S:		G
BAsmu&E	2S: 72				1S8		G
BromAne	8171						ql s
RaOmAum	1S871	SF4S	SF40	SFhh	SF40	1hF6:	l l b
RaOmAum	1S671	76F04	76F1h	7hFB2	76F24		l l b
RaOmAum	11171	SF2:	SF- 4	SF28	SF- S	1SFB:	l l b
RalqAum	4- 71	h00hF4S	h846Fh6	h: 81Fh2	h860FB2	1F08	l l b
RalqAum	4471	61ShF- 4	6- 0- F18	6- 2- F02	6260F41	2F20	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	01F10	0SF0:	02FSS	01F- 2	SFB0	l l b
Robal&	h: 72	2hF44	2hF12	2hF: 6	2hFh1	1F60	l l b
Rol l er	6- 72	: - F0S	: 1F0-	: hFh:	: - F60	2FS6	l l b
t %sl rosAum	1h671						ql s
t %sl rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				112		G
KolmAum	16h72				1S8		G
DnOAum	11h71				1S:		G
DnOAum	11h72				1S1		G
Don	h472	h16: 0F20	h16: hF: h	h- 20: F- -	h2224F18	1F0h	l l b
Don	h672	h110SF06	hS220Fh1	h2S: 2F00	h116- F68	1FB2	l l b
Don	h072	h2- - hF20	h2261FSS	h4244FS6	h2: 46F08	2F12	l l b
kr%l &on	8- 71						ql s
LeaO	2S671	2: F2S	2: F46	2: F20	2: F- 1	SF46	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	20F81	28F4:	28F2h	28F18	1F2-	I I b
LeaO	2S871	28F62	28F61	28F- 8	28Fh4	SF40	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1h066F- 8	1h- 1: F8-	1h0h2F- :	1h612F80	1F6-	I I b
Manganese	hh72	: 22F. 8	: 1- F2-	: 44F0-	: 26F. 8	1F04	I I b
Mol%bOenum	: 471	1F. S	2F18	2F12	2FS0	0F14	I I b
Mol%bOenum	: h71	SF88	1FS8	1FS:	1FS2	12FSS	I I b
Mol%bOenum	: 671	1FS1	1F- 1	1F24	1F18	1- F- 0	I I b
Mol%bOenum	: 071	1FS2	1F1-	SF. 4	1FS-	: F22	I I b
Mol%bOenum	: 871	SF8:	1FS4	1F12	1FS2	11F06	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	86F0-	86F1:	80F8-	86F. 2	SF. 6	I I b
PEosI Eorus	- 172	8- 2F- 0	026F2:	: : 0Fh2	8h2FS6	16FS4	I I b
Po&assAum	- : 72	12hSF22	11: 0F4h	12- 6F. 1	1228F2S	2F2-	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S0		G
pqanOAum	4h71				11S		G
pqanOAum	4h72				1SS		G
pelenAum	8271	SF26	7SF16	7SF24	7SFS4		I I b
pelenAum	0072	: F06	11F48	1- F- -	11Fh-	1hF4:	I I b
pelenAum	0872	1Fh2	2F1h	1F01	1F0:	18FS1	I I b
pAAqon	2871	206Fh6	28SF. 4	284F61	28SF0S	1F44	I I b
pAver	1S071	SF22	SF2-	SF22	SF22	1Fh:	I I b
pAver	1S: 71	SF18	SF2h	SF22	SF22	10F40	I I b
poOAum	2- 72	h- : F- h	h4SF88	h61F0-	h40F- 2	2F28	I I b
p&ona&um	8671	4- FS8	4hFh2	46F. 2	4hF10	4F- S	I I b
p&ona&um	8871	4- F84	44F2S	4hF. 2	44F6h	2F4:	I I b
pulVur	- 471	7- - 1: FS0	7- 200F2-	7- S: 0F66	7- 2- 1F- 2		I I b
i erbAum	1h: 71				112		G
i erbAum	1h: 72				1S0		G
i EallAum	2S- 71	SF16	SF16	SF16	SF16	SF- 6	I I b
i EallAum	2Sh71	SF1h	SF16	SF16	SF16	hFSS	I I b
i An	11871	1FhS	1Fh1	1F- 0	1F46	hF48	I I b
i A&anAum	4071	h2: F0S	h- 1F24	h42F8:	h- 4F61	1F- h	I I b
UranAum	2- 871	1F- h	1F- 8	1F- -	1F- h	1F0:	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	: 8F5:	: 0F4-	1S1F4-	: 8F: 8	2F16	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				111		G
Y&&Aum	8: 72				1S0		G
ZAnq	6672	1- SF20	128F20	1- - FS0	1- SFh4	1F8h	l l b
ZAqonAum	: S71	SF04	SF01	SF0h	SF0-	2F0h	l l b
ZAqonAum	: 171	SF01	SF02	SF0-	SF02	1F64	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdPP u sb r 9	142qC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2N- : 6UN4	206S- U6	2N- 01US:	2N12- U06	1U6S	DDe
q5Tb n5%	12171	SU1J	SU1N	SU1N	SU10	1SU1-	DDe
qpwr 5cd	0J72	2- U6S	2- UJ-	2- US-	2- U:	1U-	DDe
Bspcmb	1- J71	N6U06	N6US6	N: U2N	N0U0	1U4	DDe
Bspcmb	1- 071	NNU4N	NNU2J	: SU24	NNU:	1U22	DDe
Br p%PPmb	: 71	SU4-	SU42	SU42	SU42	1U60	DDe
Bcvb mTE	2S: 71				1S:		G
Bcvb mTE	2S: 72				1SN		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	SU1:	SU4S	SU4	SU1	- JU J	DDe
v sob cmb	1S671	74U00	76U1J	7JUJJ	7JU4:		DDe
v sob cmb	11171	SUS:	SU11	SU1-	SU11	16UN4	DDe
v sPdcmb	4- 71	2606U2N	264SUN4	2614U-	264- UN2	1U1N	DDe
v sPdcmb	4471	2664U26	2644U0:	2610U2J	2642U1S	SUN:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- J71						dDw
v EPhpc5r	- J72						dDw
v Epmb cmb	J272	42U02	42U2S	4- U0	42U06	1U0	DDe
v nesPT	J: 72	16U6	16U12	16U61	16U6	1UJ2	DDe
v nDDr p	6- 72	J6U0	JJU0N	J0U26	J6U40	1U2	DDe
&%wDpnwcmb	1J671						dDw
&%wDpnwcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
KnPb cmb	16J71				111		G
KnPb cmb	16J72				1S0		G
t5ocmb	11J71				11S		G
t5ocmb	11J72				: :		G
tpn5	J472	- : - J6UJ-	- : 0: - US	- : : S6UJ1	- : 6NJU6J	SU0-	DDe
tpn5	J672	- : - 42US6	- : J22U2N	- : 44SUS6	- : 4- 4UNS	SU2-	DDe
tpn5	J072	- 6012U6-	- 6N10U02	- 6: - 0U01	- 6N22U6:	SU1	DDe
kp%DTn5	N- 71						dDw
Lr so	2S671	6US1	JUN:	6US0	JU:	1U4:	DDe

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Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DPP t& 9	y ahq : 1	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmqpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdPP usb r 9	142qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JUJ:	JU61	JUN-	JU6N	2UJ J	DDe
Lr so	2SN71	JUN2	JU60	JUN:	JUNS	1UJ N	DDe
LdTEcmb	671				1S1		G
y sM5r wcmb	2472	11200U24	11SN- U11	1112- U6:	11161UJ J	SUJ 2	DDe
y s5Ms5r wr	JJ72	0SJUS6	6: 6U2S	6: NU62	6: : UJ 6	SU6J	DDe
y nP%eor 5mb	: 471	- UJ 2	2UJ N	- US2	- U11	6US6	DDe
y nP%eor 5mb	: J71	SUN6	SUN:	SUN0	SUN0	1U46	DDe
y nP%eor 5mb	: 671	1U1:	1U14	1U22	1U1N	- U41	DDe
y nP%eor 5mb	: 071	SUJ 0	SUN-	SUN:	SUJ S	0U4S	DDe
y nP%eor 5mb	: N71	SUJ J	SUNU	SUN:	SUJ S	JU2N	DDe
u r no%b cmb	1JS71						dDw
u r no%b cmb	1JS72						dDw
ucdf r P	6S72	6SUSJ	6SU6N	61UJ S	6SU6N	1US-	DDe
8 EnwDEnpmw	- 172	6S- U01	J0- U60	60SUJ 1	616US:	NUSN	DDe
8 nTswwcmb	- : 72	J0SUNS	J4SUS0	J01UJ N	J6SU0J	- U1:	DDe
CEnocmb	1S- 71				1S:		G
CEnocmb	1S- 72				1SJ		G
I ds5ocmb	4J71				11S		G
I ds5ocmb	4J72				: N		G
I r P 5cmb	N271	7SU42	7SUS:	SUS2	7SU16		DDe
I r P 5cmb	0072	4US-	4U12	NU6-	JUJ:	40US6	DDe
I r P 5cmb	0N72	SUN4	1U1S	1UN-	1U26	4SUJ:	DDe
I dcdn5	2N71	21JU14	2S: UJJ	2S6UJ4	21SU41	2USN	DDe
I dgr p	1S071	SUSN	SUSN	SUS:	SUSN	4U2N	DDe
I dgr p	1S: 71	SUS0	SUSN	SUSN	SUSN	6UN6	DDe
I nocmb	2- 72	1- JU40	1- 2US1	1- NUNN	1- JU46	2UJ4	DDe
I Tpn5Tcmb	N671	14UJ1	14UJ4	1JU11	14U02	2U2:	DDe
I Tpn5Tcmb	NN71	14U42	14U64	14U64	14UJ0	SUN6	DDe
I mPVmp	- 471	7- 004U1S	7- : S4USJ	7- : : NUJ :	7- N: 2UJ N		DDe
Ar pecmb	1J: 71				111		G
Ar pecmb	1J: 72				1SJ		G
AEs PRcmb	2S- 71	SU11	SU11	SU12	SU11	6UJ 4	DDe
AEs PRcmb	2SJ71	SUS:	SUS:	SU1S	SU1S	- UJN	DDe
Ad5	11N71	SU2:	SU24	SU20	SU20	: U1J	DDe
AdS5cmb	4071	4N2UJ6	460UNS	46: U1-	40- U16	1U0-	DDe
Rps5cmb	2- N71	SUJN	SUJN	SU6S	SUJ:	2US:	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DPP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdP u sb r 9	142qC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
hs5soomb	J172	6NJJ	6: U12	0SU2N	6: U2	1U20	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N: 71				11S		G
YTTpomb	N: 72				1S1		G
Zd5d	6672	66UNN	66U14	60U6-	66UNN	1U11	DDe
Zqpdn5omb	: S71	1U4	1U2-	1U20	1U2N	- U6	DDe
Zqpdn5omb	: 171	1U:	1U21	1U2S	1U20	NJJ-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFS1	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPP:u sb r :J	14- q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gM:v n5dU	v n5dCI &	R5dTw
q Pmb d5cmb	20 2	4249U24	4220UN0	422SUN0	42- 2U66	SU-7	DDe
q 5Tb n5%	121 1	SU47	SU41	SU4-	SU4-	4U77	DDe
q pwr 5cd	07 2	0U26	6UN2	6U69	6U9-	4U29	DDe
Bspcmb	1- 7 1	141U79	14- U91	142US1	142U7S	SUN0	DDe
Bspcmb	1- 0 1	1- 9U46	144UN-	1- 9U76	141U2N	2U10	DDe
Br p%PPmb	9 1	1U1N	1U21	1U17	1U1N	2U91	DDe
Bcwb mTE	2S9 1				1S4		G
Bcwb mTE	2S9 2				1SN		G
Bpmb d5r	N1 1						dDw
v sob cmb	1SN 1	SU-6	SU49	SU79	SU4N	2- U77	DDe
v sob cmb	1S6 1	4U24	- U77	2U66	- U4N		DDe
v sob cmb	111 1	SU-1	SU29	SU2S	SU20	21U69	DDe
v sPdcmb	4- 1	2S0S- U7N	2144- USN	2S- 67US-	2SN- 0U2-	2U67	DDe
v sPdcmb	44 1	2160SU40	22444US2	212SSU21	21001U70	2UNN	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpd5r	- 7 1						dDw
v EPhpd5r	- 7 2						dDw
v Epmb cmb	72 2	14U96	14U47	14U1N	14U7-	2U07	DDe
v nesPT	79 2	- U71	- U67	- U67	- U6S	2U20	DDe
v nDDr p	6- 2	9U61	9U44	9U20	9U44	1UN1	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				1S6		G
h nPb cmb	167 2				1SN		G
t5ocmb	117 1				1S4		G
t5ocmb	117 2				1S2		G
tpn5	74 2	120NNU29	1201- U46	1269- UN0	120- 1UNN	SU-9	DDe
tpn5	76 2	1- 066U22	1- 776U6N	1- 7- 0UNN	1- 62SU26	SU9-	DDe
tpn5	70 2	12001U6S	127- NU29	12402U0N	12794U22	1U27	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	2- U2S	24U91	22UN4	2- U67	4U6N	DDe

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S1	t5wTpmb 5r TusB r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFS1	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPP:usb r :J	14- qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	22U14	2- U1S	21U66	22UJS	- U2N	DDe
Lr so	2SN 1	22U0-	2- UN6	22U22	22U94	- U67	DDe
LdTEomb	6 1				96		G
y sM5r womb	24 2	6S67U11	79- SU4N	6S2SU6-	6SS7U41	1U14	DDe
y s5Ms5r wr	77 2	447UN4	44- U12	44SUJ4	44- U1S	SU62	DDe
y nP%eor 5mb	94 1	6U61	6U06	6U7S	6U62	1U9-	DDe
y nP%eor 5mb	97 1	1UJN	1U44	1U4-	1U42	2U19	DDe
y nP%eor 5mb	96 1	1U91	1U90	1UN6	1U91	2UN6	DDe
y nP%eor 5mb	90 1	1U7S	1U7S	1U46	1U49	1U2-	DDe
y nP%eor 5mb	9N 1	1UJN	1U42	1U41	1U4S	1U6N	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	6U17	6U01	6U69	6U72	4UN1	DDe
8 EnwDEnpmw	- 1 2	719U1-	4- NU9S	7S6U9-	4NNUJ2	NUN7	DDe
8 nTswwomb	- 9 2	1NS4U44	1066UJ-	1062U79	1000U09	1UJS	DDe
CEnoomb	1S- 1				1S-		G
CEnoomb	1S- 2				1SN		G
I ds5oomb	47 1				1S2		G
I ds5oomb	47 2				1SS		G
I rP 5omb	N2 1	SU4S	SU20	SU1-	SU26	7SU67	DDe
I rP 5omb	00 2	- 4UN7	29UN-	- 1UN1	- 2U10	0UN6	DDe
I rP 5omb	0N 2	7U29	6U11	4US6	7U17	19U96	DDe
I dPdn5	2N 1	121U40	12- U06	110U70	12SU94	2U79	DDe
I dPgr p	1S0 1	SU11	SU11	SU14	SU12	12U29	DDe
I dPgr p	1S9 1	SU14	SU1-	SU1S	SU1-	17U9S	DDe
I nomb	2- 2	1S9UN7	1SNU70	1S4U92	1S0U0N	2UJN	DDe
I Tpm5Tomb	N6 1	4- U76	4- U76	4- U02	4- U61	SU21	DDe
I Tpm5Tomb	NN 1	42UN1	44U2S	4- U11	4- UJ0	1U69	DDe
I mPmp	- 4 1	2742UJ7	10S6U26	1606UN6	1907U16		DDe
Ar pemb	179 1				1S7		G
Ar pemb	179 2				1S0		G
AEsPPmb	2S- 1	SU2S	SU19	SU14	SU1N	16U42	DDe
AEsPPmb	2S7 1	SU10	SU19	SU17	SU10	12US7	DDe
Ad5	11N 1	1U4-	1U72	1U72	1U49	- U7N	DDe
AdS5omb	40 1	- 4SU26	- 7SU17	- - 1UN2	- 4SU04	2U69	DDe
Rps5omb	2- N 1	1UJN	1U49	1U4S	1U4-	4U17	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFS1	&dPmTcn5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPr:u sb r :J	14- q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	14U69	14UN7	14U20	14U6S	2US4	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				1SN		G
YTTpomb	N9 2				11S		G
Zc5d	66 2	1S9U07	1S6U-N	1S- U61	1S6U7N	2UN9	DDe
Zqpdn5omb	9S 1	- US9	- U26	- US6	- U1-	- U44	DDe
Zqpdn5omb	91 1	- US0	- U14	- US6	- US9	1U71	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S2	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFS7	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :u wb r :J	144qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	4S97Ua2	4S- aU00	4477U-4	4196U64	7U-a	DDe
q5Tb n5%	121 1	SU-1	SU-	SU-a	SU-4	11U14	DDe
qpl r 5cd	07 2	6US9	7U4a	0U16	6U24	1- U7a	DDe
Bwpcmb	1- 7 1	1- SU96	1- 6Ua2	142U-	1- 6U0S	4U16	DDe
Bwpcmb	1- 0 1	1- 1U2-	1- 9U-	144U16	1- aU24	4U0-	DDe
Br p%8mb	9 1	1U21	1U21	1U-1	1U24	4U00	DDe
Bdb mTE	2S9 1				117		G
Bdb mTE	2S9 2				1S7		G
Bpmb d5r	a1 1						dDl
v wob cmb	1Sa 1	SU46	SU77	SU71	SU71	aU76	DDe
v wob cmb	1S6 1	4U60	1Ua0	- U69	- U41		DDe
v wob cmb	111 1	SU16	SU19	SU26	SU2S	24U49	DDe
v w8dcmb	4- 1	2- 626U-2	2- aa0U94	24a92U66	241- 7U64	2U00	DDe
v w8dcmb	44 1	24160U69	27S66U04	27aa6U46	27S4SU-S	- U4-	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	14Ua0	14Ua7	16U17	17U29	4Uaa	DDe
v new8T	79 2	- U04	- U00	4US4	- Ua7	4U-0	DDe
v nDDr p	6- 2	9U1a	9U16	1SU24	9U7-	6U49	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				117		G
h n8b cmb	167 2				1S0		G
t5ocmb	117 1				114		G
t5ocmb	117 2				1SS		G
tpm5	74 2	12S76U0S	1190- U47	1- S79U19	12- 6- U11	4Ua9	DDe
tpm5	76 2	12a01U60	12a77US-	1- 946U19	1- 224U-S	4U0-	DDe
tpm5	70 2	1196SU-6	11979U94	1291aUS6	12209U46	4U7S	DDe
Kp%DTn5	a- 1						dDl
Lr wo	2S6 1	2SU-a	2SU26	22U76	21US0	6U1-	DDe

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 47S S2	t5l Tpmb 5r Tuwb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFS7	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :uwb r :J	144qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	1aU19	1aU6a	2SU47	19U11	6U21	DDe
Lr wo	2Sa 1	19U4a	19U69	21U47	2SU21	7U4	DDe
LdEomb	6 1				1S2		G
y wW5r l omb	24 2	666- U2-	67a4U1S	01a0USS	6a11U44	4Ua1	DDe
y w5Mw5r l r	77 2	49aU20	7SSU47	742U02	71- Ua1	4Uaa	DDe
y n8%eor 5mb	94 1	7U-	7U26	7U76	7U9	2Ua9	DDe
y n8%eor 5mb	97 1	SU97	SU9-	1US1	SU96	4U41	DDe
y n8%eor 5mb	96 1	1U4-	1U44	1U2	1U4S	4U69	DDe
y n8%eor 5mb	90 1	SU99	SU94	1US4	SU99	4U69	DDe
y n8%eor 5mb	9a 1	SU90	1US4	SU9-	SU9a	7U61	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	6U6	6U11	6U96	6U4a	6UaS	DDe
NEnl DEnpm	- 1 2	7- SU04	469U6	7S9U94	7S- U7	6U2S	DDe
NnTwl omb	- 9 2	10- - U69	100SUa7	1949Ua0	1a1aU14	6U6	DDe
CEnoomb	1S- 1				114		G
CEnoomb	1S- 2				1S6		G
l dw5oomb	47 1				117		G
l dw5oomb	47 2				9a		G
l r 8 5omb	a2 1	SUS1	SU44	SUS	SU24	96US1	DDe
l r 8 5omb	00 2	29US0	2aU24	- 9U19	- 2U10	1aU97	DDe
l r 8 5omb	0a 2	6U91	4US7	0U91	6U29	- 1Ua7	DDe
l 8dn5	2a 1	116Ua2	11aU92	124U01	12SU17	- U4S	DDe
l 8gr p	1S0 1	SUSa	SU1S	SU1S	SUS9	14US-	DDe
l 8gr p	1S9 1	SUSa	SU1S	SUSa	SUS9	1- U1	DDe
l nomb	2- 2	11SU1	11aUS9	127U1	110U9S	6U6	DDe
l Tpn5Tomb	a6 1	4- Uaa	47U6-	46Uaa	47U40	- U1	DDe
l Tpn5Tomb	aa 1	44U29	47Ua1	46U9-	47U6a	2U9S	DDe
l m8mp	- 4 1	26a9US	2060U24	2174U7-	27- 0US-		DDe
Ar peomb	179 1				116		G
Ar peomb	179 2				1S6		G
AEw8omb	2S- 1	SU17	SU17	SU10	SU16	6U29	DDe
AEw8omb	2S7 1	SU10	SU14	SU10	SU16	9US	DDe
Ad5	11a 1	6US-	6U2	6U0-	6U6	7U7-	DDe
AdTw5omb	40 1	2a- U7	2a9U11	29aU24	29SU2-	2U79	DDe
Rpw5omb	2- a 1	1U2	1U41	1U4a	1U4S	7Ua-	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 47S S2	t5l Tpmb 5r Tu wb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFS7	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :q dOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :u wb r :J	144q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	14U7	14U47	17U6	14U02	- U09	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	a9 1				11a		G
YTTpcmb	a9 2				11S		G
Zc5d	66 2	a1U S	a1U61	a0U47	a- U79	4U42	DDe
Zqcdn5cmb	9S 1	2U49	2U76	2U66	2U70	- U4-	DDe
Zqcdn5cmb	91 1	2U29	2U0S	2U0-	2U70	9U01	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
c lumAnAum	20 2	12S7F24	1111F- -	1104F72	116- F0S	4F11	I I b
c n&Amonh	121 1	SFS0	SFS8	SF1S	SFS8	21F47	I I b
c rsenAq	07 2	2F- 8	2FS-	2FS%	2F10	8F48	I I b
BarAum	1- 7 1	- 2F02	- 4F72	- 2F46	- - F2-	- F- 0	I I b
BarAum	1- 0 1	- - F24	- - F00	- - F20	- - F4-	SP%S	I I b
BerhlIAum	%1	SF44	SF47	SF48	SF47	4F- S	I I b
BAsmu&E	2S%1				11-		G
BAsmu&E	2S%2				%0		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SFSS	SF4-	SFS4	SF16	171F80	I I b
RaOmAum	1S6 1	2F84	4FS7	- F28	- F- %		I I b
RaOmAum	111 1	SFS0	SFS-	SFS8	SFS6	- %F- %	I I b
RalqAum	4- 1	0241P%7	0- S1F- 2	020SF0-	0201F- -	SF41	I I b
RalqAum	44 1	0767F7S	006- F- 6	00S1F71	0606F0%	1F- 2	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
RElorAne	- 7 1						ql s
RElorAne	- 7 2						ql s
REromAum	72 2	2FS6	1F10	1F- 4	1F72	- 1F10	I I b
Robal&	7%2	1FS-	SP%2	1FS7	1FSS	0F28	I I b
Rol I er	6- 2	2F47	2F- -	2F47	2F41	2P%7	I I b
t hsI rosAum	176 1						ql s
t hsI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				117		G
y olmAum	167 2				%0		G
DnOAum	117 1				116		G
DnOAum	117 2				%2		G
Don	74 2	4684F67	4- %2F- 7	4677F8-	4700F61	- F72	I I b
Don	76 2	7107F16	4021F2%	4% 1P%7	4%42F8S	4F6S	I I b
Don	70 2	4676P%6	4- 28F17	470SF86	4718F66	- F00	I I b
Krhl &on	8- 1						ql s
LeaO	2S6 1	4F1S	4F12	4F2S	4F14	1F18	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	- F6%	- F8-	- F81	- F08	1P%%	I I b
LeaO	2S8 1	- P%4	4FS1	4FSS	- P%8	SF8%	I I b
LA&EAum	6 1				%%		G
MagnesAum	24 2	2S48F- -	1867P%7	2S16F6-	1%06P%0	4P%.	I I b
Manganese	77 2	288F8%	262F4%	200F60	206F- 7	4F0%	I I b
MolhbOenum	%4 1	1F6-	1F87	1P%8	1F82	%P%6	I I b
MolhbOenum	%7 1	SF71	SF74	SF76	SF74	4F4S	I I b
MolhbOenum	%6 1	SF70	SF78	SF6S	SF78	2P%0	I I b
MolhbOenum	%0 1	SF48	SF47	SF46	SF46	2P%2	I I b
MolhbOenum	%8 1	SF40	SF4%	SF48	SF48	- FS1	I I b
NeoOhmAum	17S 1						ql s
NeoOhmAum	17S 2						ql s
NAqkel	6S 2	1F24	1F24	1F- 0	1F28	7F87	I I b
PEosI Eorus	- 1 2	1SSF07	110F20	1S4F17	1S0F- %	8F12	I I b
Po&assAum	- %2	7SSF42	4- 4F- S	402P%S	46%F2S	0FS8	I I b
5 EoOAum	1S- 1				117		G
5 EoOAum	1S- 2				%0		G
pqanOAum	47 1				11-		G
pqanOAum	47 2				8%		G
pelenAum	82 1	SFS6	SF7-	SF1S	SF1%	161F01	I I b
pelenAum	00 2	%F7%	0F44	14F16	1SF4S	- - FSS	I I b
pelenAum	08 2	1F02	1P%S	1F72	1F02	11F14	I I b
pAAqon	28 1	40F1-	46P%4	46P%7	40FS1	SF2-	I I b
pAver	1S0 1	SFS4	SFS-	SFS-	SFS4	2SF84	I I b
pAver	1S%1	SFS-	SFS-	SFS-	SFS-	6P%8	I I b
poOAum	2- 2	1S6F62	88F77	%. F42	%6F2S	%F02	I I b
p&ona&um	86 1	%F8%	1SF8%	1SF- 1	1SF- 6	4F80	I I b
p&ona&um	88 1	1SF2%	1SF7S	1SF24	1SF- 4	1F- 4	I I b
pulfur	- 4 1	1%62F6%	2S27F- 6	1%. 6F2-	1%04F06		I I b
i erbAum	17%1				114		G
i erbAum	17%2				%7		G
i EallAum	2S- 1	SFS7	SFS7	SFS-	SFS4	- 6FS0	I I b
i EallAum	2S7 1	SFS4	SFS4	SFS7	SFS4	16F14	I I b
i An	118 1	SF2%	SF20	SF24	SF26	%F0S	I I b
i A&anAum	40 1	01F11	0- F04	0- F18	02F68	1P%S	I I b
UranAum	2- 8 1	SF47	SF48	SF46	SF46	- F16	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	71 2	- F27	2F82	- F- 4	- F14	8F%2	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8%1				117		G
Y&&Aum	8%2				%7		G
ZAnq	66 2	46F4%	44F52	47F50	47F1%	2F04	I I b
ZAqonAum	%S 1	SF00	SF87	SF8S	SF81	4F70	I I b
ZAqonAum	%l 1	SF%2	SF81	SF86	SF86	6F2%	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49-0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	1640SF77	1h704F12	164- SF-8	16271F8-	1F67	I I b
c n&mon%	121 1	SFh2	SFh6	SFh-	SFh-	- F0S	I I b
c rsenAq	0h 2	27F01	27F-S	27F81	27F61	SF72	I I b
BarAum	1- h 1	4h1F16	467F2S	4- 8F1h	4h2F84	- F44	I I b
BarAum	1- 0 1	4hhFS6	402F1h	44SF77	4h6FS0	- F42	I I b
Ber%lAum	7 1	1F08	1F81	1F82	1F8S	1F-2	I I b
BAsmu&E	2S7 1				1S7		G
BAsmu&E	2S7 2				1S7		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F-6	1Fh2	1F1-	1F- -	14F62	I I b
RaOmAum	1S6 1	SF-8	1F0-	1F21	1F11		I I b
RaOmAum	111 1	1F26	1F16	1F10	1F2S	4F8h	I I b
RalqAum	4- 1	1660- F81	18S4hF21	16682Fhh	101- - F86	4F61	I I b
RalqAum	44 1	1041SF72	1877SF7S	10h0hFS-	10772F28	4F8-	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	27Fh8	27F0-	- SF-S	27F80	1F28	I I b
Robal&	h7 2	22F44	21Fh0	22F1S	22FS-	1F77	I I b
RoI I er	6- 2	6hFS1	62F82	6hF28	64F-0	2FS7	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				112		G
y olmAum	16h 2				11S		G
DnOAum	11h 1				11S		G
DnOAum	11h 2				1S4		G
Don	h4 2	h2460F-h	h2S4- F8h	h- h20F47	h2607Fh6	1F4h	I I b
Don	h6 2	h2241F70	h1S01F11	h1707F1h	h1064FS0	1F17	I I b
Don	h0 2	h- 116F0h	h1- 17F00	h28- - F8h	h242- F46	1F84	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	08F72	8SF81	06F66	08F8S	2F64	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49-0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	0hF00	00F27	04FS8	0hF01	2F12	I I b
LeaO	2S8 1	00F4h	08F87	0hF-0	00F24	2F27	I I b
LA&EAum	6 1				1S1		G
MagnesAum	24 2	018-F-6	6862F74	0S64F16	0S-6F82	2F-S	I I b
Manganese	hh 2	1SS0FS1	766FS0	770F76	77SF-4	2F10	I I b
Mol%bOenum	74 1	8F- -	8Fh-	8F11	8F-2	2Fh2	I I b
Mol%bOenum	7h 1	1F71	2F1h	1F76	2FSS	6F-2	I I b
Mol%bOenum	76 1	2Fh8	2F61	2F00	2F66	-F0-	I I b
Mol%bOenum	70 1	1F78	2F2h	2FS-	2FS7	6F60	I I b
Mol%bOenum	78 1	2FS4	2F1-	2F11	2FS7	2F27	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	46F86	4hF22	40FS6	46F-8	2F18	I I b
PEosI Eorus	-1 2	2666FS7	2064Fh1	2870F-0	200hF77	4F18	I I b
Po&assAum	-7 2	-8-8F06	-816F7-	-802F02	-842F8S	SF0-	I I b
5 EoOAum	1S- 1				11S		G
5 EoOAum	1S- 2				11S		G
pqanOAum	4h 1				11-		G
pqanOAum	4h 2				1S-		G
pelenAum	82 1	2F16	1F08	2F16	2FS-	1SF08	I I b
pelenAum	00 2	4SF74	4SF2-	42F7h	41F-0	-F41	I I b
pelenAum	08 2	1SF-4	0F87	7F4S	7F21	1-F42	I I b
pAAqon	28 1	17SF26	2S8F76	180F62	17hF61	hF7h	I I b
pAver	1S0 1	SF-6	SF-6	SF- -	SF-h	hF04	I I b
pAver	1S7 1	SF-0	SF-6	SF-6	SF-6	1F2h	I I b
poOAum	2- 2	- - 6F-6	-22F42	-41F42	- - - F4S	2F7h	I I b
p&ona&um	86 1	1h7F84	16hF0-	16-FhS	16-FS2	1F82	I I b
p&ona&um	88 1	168F1-	107Fh1	101F6h	10-F1S	-F-0	I I b
pulfur	-4 1	1816F8h	1472F81	22S0F40	18-7FS4		I I b
i erbAum	1h7 1				112		G
i erbAum	1h7 2				1S0		G
i EallAum	2S- 1	SF4S	SF-7	SF-h	SF-8	6F-0	I I b
i EallAum	2Sh 1	SF-8	SF41	SF-8	SF-7	hF27	I I b
i An	118 1	1F07	1F0h	1F80	1F8S	-Fh4	I I b
i A&anAum	40 1	07F07	80F4-	8SFS6	82F4-	hF26	I I b
UranAum	2-8 1	-F61	-F86	-F64	-F0S	-F61	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49 0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
VanaOAum	h1 2	0SFB8	67F4-	02FS2	0SF00	1FB4	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				118		G
Y&&Aum	87 2				117		G
ZAnq	66 2	266FB0	2h8FSh	264F77	26- F= S	1F06	I I b
ZAqonAum	7S 1	- F0S	- F7-	4FSS	- FB0	4FS6	I I b
ZAqonAum	71 1	- Fnh	- F08	- F00	- F0S	- Fn2	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Pr 5T9l sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
qPmb c5cmb	20 2	2777: U4N	2: 447U07	2: S- 0U4:	26N20U N	1SU26	DDe
q5Tb n5%	121 1	2U0N	- US6	- US0	2U70	: U 1	DDe
qpwr 5cd	0: 2	61U7	: 0U6	: : U6-	: NU17	: US4	DDe
Bspcmb	1- : 1	606U N	02: U12	01SU27	0S4USS	- U -	DDe
Bspcmb	1- 0 1	01- U60	07NUS7	04NU6S	0: - U4:	: U6-	DDe
Br p%PPmb	7 1	- U02	- U07	- U06	- U06	SU7N	DDe
Bcvb mTE	2S7 1				114		G
Bcvb mTE	2S7 2				1S:		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	- UN:	4U10	4US4	4US2	4US1	DDe
v sob cmb	1S6 1	1US1	SU22	1U2S	SUS1		DDe
v sob cmb	111 1	- UNN	- U72	4U1S	- U70	2U7S	DDe
v sPdcmb	4- 1	46622U7	4N476U4-	407SNU62	4060: UNN	2US1	DDe
v sPdcmb	44 1	4N6N2U4	: SN: 2U0S	: S4- 1U16	477NNUNS	2U S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- : 1						dDw
v EPhpc5r	- : 2						dDw
v Epmb cmb	: 2 2	40U2-	4- U10	42U4-	44U2N	: UN4	DDe
v nesPT	: 7 2	10U12	1: U0S	1: U :	16US6	: UN:	DDe
v nDDr p	6- 2	144U1N	12NU1:	126U0-	1- - US2	0U2N	DDe
&%wDpnwcmb	1: 6 1						dDw
&%wDpnwcmb	1: 6 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	16: 1				11N		G
h nPb cmb	16: 2				1S:		G
t5ocmb	11: 1				11-		G
t5ocmb	11: 2				7N		G
tpn5	: 4 2	: S77NU02	4: 74SU0	4: 02- U2:	40: : 4U1N	6U2N	DDe
tpn5	: 6 2	47016US6	46- 00U2S	4421: US-	46067U4-	: U7-	DDe
tpn5	: 0 2	4742: USN	40- N0U7-	44- 46U4	40S: - U17	: U4-	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	666U24	0S- UN0	0S6U0N	672U S	- U20	DDe

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Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Pr 5T9 sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
Lr so	2S0 1	627U2:	662U-2	667U-:	6: - U01	- U2N	DDe
Lr so	2SN 1	64- U44	60SU27	60: UN-	66- U1N	2U61	DDe
LdEomb	6 1				1S1		G
y sM5r womb	24 2	11- 26U00	1S177U-:	777- USS	1S: S6U-0	6UN-	DDe
y s5Ms5r wr	: : 2	16: NUN-	147SU24	1460U07	1: - NU7:	6U07	DDe
y nP%eor 5mb	74 1	1SU-N	1SU72	11U22	1SUN4	- U72	DDe
y nP%eor 5mb	7: 1	- UN:	4US-	4U12	4USS	- U40	DDe
y nP%eor 5mb	76 1	4U-	4UNN	4UN2	4U04	- UNN	DDe
y nP%eor 5mb	70 1	- U72	4U2:	4U-7	4U17	: U07	DDe
y nP%eor 5mb	7N 1	- UN0	4US-	4US4	- U7N	2U44	DDe
u r no%b omb	1: S 1						dDw
u r no%b omb	1: S 2						dDw
u dkr P	6S 2	- 0U16	- 4U41	- - U11	- 4UN7	: U72	DDe
8 EnwDEnpmw	- 1 2	- 704U67	- - 61UNN	- - 17U47	- : : 2US2	1SU-2	DDe
8 nTswwomb	- 7 2	00SSU06	6N0NU-S	6N60U21	014NUN-	6U67	DDe
CEnoomb	1S- 1				114		G
CEnoomb	1S- 2				1S-		G
I ds5oomb	4: 1				11:		G
I ds5oomb	4: 2				7:		G
I r P5omb	N2 1	1U1N	1U-S	2U11	1U6S	27U-4	DDe
I r P5omb	00 2	47UN0	44US1	44U-7	46US7	0U12	DDe
I r P5omb	0N 2	12USN	7U74	7U-4	1SU4:	1- UNS	DDe
I dBdn5	2N 1	21: U-7	22: U16	22- U-N	221U44	2U-2	DDe
I dBgr p	1S0 1	1U17	1U20	1U26	1U24	- U2N	DDe
I dBgr p	1S7 1	1U21	1U-6	1U27	1U27	6US1	DDe
I noomb	2- 2	677U-2	614U-2	6S7U-S	641US:	0U71	DDe
I Tpm5Tomb	N6 1	- 4: U-2	- : 0U07	- : 1UN4	- : 1U6:	1U00	DDe
I Tpm5Tomb	NN 1	- : 0UN7	- 0SU-4	- 6NU2:	- 6: U47	1UN2	DDe
I mPmp	- 4 1	N12U-S	41NU7-	- 16U-2	: 1: UN:		DDe
Ar peomb	1: 7 1				110		G
Ar peomb	1: 7 2				1S4		G
AEsPBmb	2S- 1	SU42	SU4S	SU-N	SU4S	4U7-	DDe
AEsPBmb	2S: 1	SU-:	SU-7	SU-7	SU-N	: U07	DDe
Ad5	11N 1	16UN4	1NU46	10UN6	10U02	4U6-	DDe
AdS5omb	40 1	446US7	46SU24	46- UN7	4: 6U04	2US6	DDe
Rps5omb	2- N 1	2U07	- US1	2U76	2U72	- U70	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DrP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Rr 5T9 sb DrP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y swv	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
Vs5soomb	: 1 2	N6UNS	07U-	00U24	N1U17	6U1:	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N7 1				121		G
YTTpomb	N7 2				11-		G
Zc5d	66 2	1- : 2US2	1211U01	117NU26	12: 4USS	6U07	DDe
Zqpdn5omb	7S 1	4U12	4U2N	4U2N	4U2-	2U24	DDe
Zqpdn5omb	71 1	4U14	4U-0	4U27	4U20	2U01	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RlAn&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&:T:i Ane:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	10718F44	1008SF8h	107- - F2-	10800FhS	SF40	I I b
c n&mon%	121 1	SF71	SF71	SF7S	SF71	SFh-	I I b
c rsenAq	0h 2	4- F- h	44F- 1	42F12	4- F26	2Fh4	I I b
BarAum	1- h 1	407Fh6	461F84	462F2S	460F86	2F16	I I b
BarAum	1- 0 1	48hF18	4h6Fh-	404F47	402FS6	- FS0	I I b
Ber%lAum	7 1	2F1S	2F27	2F27	2F2-	4F87	I I b
BAsmu&E	2S7 1				11-		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F8h	2Fh0	1F7S	2F11	17FS7	I I b
RaOmAum	1S6 1	SF- 2	1F4h	1F76	1FS-		I I b
RaOmAum	111 1	1F66	1F0h	1F67	1F0S	2F62	I I b
RalqAum	4- 1	2h- 48F21	2hhShF40	240- hF12	2h176F20	1F62	I I b
RalqAum	44 1	2h70hF07	264h0F6S	2h24- F74	2h872F44	2F- 6	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	28F1-	20F46	20F78	20F86	1F26	I I b
Robal&	h7 2	1hF14	14F8-	1hF1h	1hFS4	1F22	I I b
Rol I er	6- 2	60F78	68F21	60F82	68FSS	SF27	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				11-		G
y olmAum	16h 2				1S8		G
DnOAum	11h 1				111		G
DnOAum	11h 2				1S1		G
Don	h4 2	4S4h8F7S	4S6S0FS8	4S1- 7F6h	4S4S1F80	SFh7	I I b
Don	h6 2	- 7466F72	- 86h6F- 8	- 7180F66	- 71S- F66	1FSh	I I b
Don	h0 2	- 01S- F11	- 6276F20	- 6400Fh6	- 662hF64	1F16	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	18SF6-	10hFS1	108F47	108FS4	1Fh7	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	101F-2	160F21	167F07	167F44	1F2-	I I b
LeaO	2S8 1	180F00	18- F6S	182F82	184F0-	1F44	I I b
LA&EAum	6 1				1S2		G
MagnesAum	24 2	68- hF14	68- SF-8	671- F0S	68h7F04	SF68	I I b
Manganese	hh 2	1S80F4S	1S02F8S	1S81F8-	1S8SF68	SF68	I I b
Mol%bOenum	74 1	0FSh	6F86	0FS0	6F77	1F64	I I b
Mol%bOenum	7h 1	2F82	2F8-	2F81	2F82	SF22	I I b
Mol%bOenum	76 1	- F2h	- F46	- F28	- F- -	- F4h	I I b
Mol%bOenum	70 1	2F72	- FS4	- FS1	2F77	2F10	I I b
Mol%bOenum	78 1	2F86	2F82	2F7S	2F86	1F41	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	- hF0S	- hF8S	- 4F81	- hF44	1Fh4	I I b
PEosI Eorus	- 1 2	1h78F7-	10ShFS4	1h- 7F02	1614Fh6	hF17	I I b
Po&assAum	- 7 2	hh60Fh4	h4S0F1S	hh4SF4h	hhShFS-	1Fh6	I I b
5 EoOAum	1S- 1				1S7		G
5 EoOAum	1S- 2				1S0		G
pqanOAum	4h 1				111		G
pqanOAum	4h 2				1SS		G
pelenAum	82 1	1F1h	SF76	SF72	1FS1	12F26	I I b
pelenAum	00 2	46F16	62F70	42F64	hSFh7	21F40	I I b
pelenAum	08 2	8F78	8F87	7F12	7FSS	1F-1	I I b
pAAqon	28 1	2h1Fh-	2hhF24	246F20	2h1FS1	1F8S	I I b
pAver	1S0 1	SFh8	SFh7	SFh6	SFh8	2F64	I I b
pAver	1S7 1	SF62	SFhh	SFh0	SFh8	6F46	I I b
poOAum	2- 2	244F17	2h1F42	2h1F27	248F70	1F66	I I b
p&ona&um	86 1	188FSS	187FSS	18hF10	180F-7	1FS6	I I b
p&ona&um	88 1	178F47	2SSF81	17hF64	178F-1	1F-S	I I b
pulfur	- 4 1	1827F10	10- 2F04	107- F7-	108hF28		I I b
i erbAum	1h7 1				111		G
i erbAum	1h7 2				1S6		G
i EallAum	2S- 1	SF41	SF4S	SF42	SF41	2F80	I I b
i EallAum	2Sh 1	SF42	SF4S	SF-7	SF4S	2F74	I I b
i An	118 1	0F7h	0F76	8FSh	0F77	SF66	I I b
i A&anAum	40 1	1- 4F4h	1- 6F6h	127FS4	1- - F-8	2F74	I I b
UranAum	2- 8 1	1F77	2FSS	2FS1	2FSS	SF-0	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
VanaOAum	h1 2	0- F1h	0SFh7	02F- 0	02FS4	1FB2	l l b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				118		G
Y&&Aum	87 2				114		G
ZAnq	66 2	- 20F77	- - 2F10	- - 2F12	- - SF06	SF0-	l l b
ZAqonAum	7S 1	2Fh8	2F60	2Fh0	2F61	2FS-	l l b
ZAqonAum	71 1	2F0h	2F6S	2Fh4	2F6-	4F11	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&e:T:i Ane:c qduAeO.9	2S2- S0 12:2S91 - 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	1S0S8F41	1ShS0F0-	1S2h7Fh6	1S471F7S	2F14	I I b
c n&Amon%	121 1	SF64	SFhh	SFh6	SFh8	7F11	I I b
c rsenAq	0h 2	14F0S	14F8S	1hF11	14F80	1F4-	I I b
BarAum	1- h 1	186Fh6	188F- -	108F11	184F- 4	2F76	I I b
BarAum	1- 0 1	171F10	18hFh0	181FS1	18hF72	2F04	I I b
Ber%lAum	7 1	SF84	SF86	SF8S	SF8-	- F0h	I I b
BAsmu&E	2S7 1				1S7		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F80	1F- 6	1F06	1F66	1hF7S	I I b
RaOmAum	1S6 1	- F66	hF68	4F21	4Fh2		I I b
RaOmAum	111 1	1F60	1F01	1F4-	1F6S	7F28	I I b
RalqAum	4- 1	202- - Fh8	20408F0h	20h0hF1h	20427F16	SF64	I I b
RalqAum	44 1	28hSSF77	27S76F66	20040Fh6	28448F4S	2F- 8	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	18F08	18F60	10F78	18F48	2F- h	I I b
Robal&	h7 2	7F48	7F00	7F- 6	7Fh4	2F24	I I b
RoI I er	6- 2	20F74	20F17	26Fh7	20F24	2F48	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				11S		G
y olmAum	16h 2				1S0		G
DnOAum	11h 1				1S8		G
DnOAum	11h 2				1SS		G
Don	h4 2	27112FS1	2888SF68	20612F14	28h- 4F74	2F8-	I I b
Don	h6 2	28021F8h	28- h0F70	20246F66	281S8F8-	2F0-	I I b
Don	h0 2	26404F81	26- 1- F27	2h226F8h	26SS4F78	2F61	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	- - FS7	- 2F- 7	- 1Fh8	- 2F- h	2F- 4	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S91 - 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	- SF- 6	- SF- 2	- SF12	- SF26	SF4-	I I b
LeaO	2S8 1	- 1Fh1	- 1F22	- SF06	- 1F10	1F21	I I b
LA&EAum	6 1				77		G
MagnesAum	24 2	1166- F11	11- S2F- 1	11S8SF16	11- 48Fh-	2Fh7	I I b
Manganese	hh 2	- 71F62	- 86F68	- 0- FS-	- 8- F08	2Fh1	I I b
Mol%bOenum	74 1	4Fh8	4F46	4F42	4F47	1FB2	I I b
Mol%bOenum	7h 1	1FB0	1F71	1F77	1F72	- F12	I I b
Mol%bOenum	76 1	2FS0	2F1-	2FS7	2F1S	1Fh8	I I b
Mol%bOenum	70 1	1FB4	1F60	1F67	1F0-	hF20	I I b
Mol%bOenum	78 1	1F06	1FB1	1FBS	1F07	1Fh1	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	2hF- 7	26FS8	2hFh-	2hF60	1F44	I I b
PEosI Eorus	- 1 2	17h7F22	1776FBh	21SSFS1	2S18F67	- F61	I I b
Po&assAum	- 7 2	- 720F41	- 847F- 2	- 006F6h	- 8h1F12	1F76	I I b
5 EoOAum	1S- 1				1S0		G
5 EoOAum	1S- 2				1S0		G
pqanOAum	4h 1				1S6		G
pqanOAum	4h 2				78		G
pelenAum	82 1	1F12	1F- 1	SF62	1FS2	- 4F78	I I b
pelenAum	00 2	21F- h	2- F02	1SF0S	18Fh7	- 0F- 2	I I b
pelenAum	08 2	- F01	4F66	- F71	4FS7	12F21	I I b
pAAqon	28 1	176F14	176Fh-	178F2-	176F76	SFh6	I I b
pAver	1S0 1	SF- S	SF- 4	SF- S	SF- 1	0FS4	I I b
pAver	1S7 1	SF27	SF20	SF20	SF28	- F47	I I b
poOAum	2- 2	128FS0	121F64	110F4S	122F- 0	4F- 7	I I b
p&ona&um	86 1	1SSF0-	77F78	70F70	77Fh6	1F44	I I b
p&ona&um	88 1	1S0FB8	1S6F60	1S1F06	1ShF44	- FS0	I I b
pulfur	- 4 1	1221F40	1S1SF44	80- FS4	1S- 4F78		I I b
i erbAum	1h7 1				111		G
i erbAum	1h7 2				1S6		G
i EallAum	2S- 1	SF- S	SF- S	SF- 1	SF- S	1FBh	I I b
i EallAum	2Sh 1	SF- S	SF26	SF27	SF28	6FB4	I I b
i An	118 1	SF0S	SF6-	SF62	SF6h	6Fhh	I I b
i A&anAum	40 1	0hF06	0hF- h	06F- 6	0hFB2	SF60	I I b
UranAum	2- 8 1	1FB6	1FB-	1FB-	1FB4	SF7h	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RlAn&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S91- 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	44F80	4hFS-	4- F64	44Fh1	1F01	l l b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				11-		G
Y&&Aum	87 2				1S-		G
ZAnq	66 2	188F16	180F7S	18SF71	18hF66	2F21	l l b
ZAqonAum	7S 1	1F0-	1F84	1F67	1F0h	4F4S	l l b
ZAqonAum	71 1	1F8-	1F60	1F67	1F0-	hF24	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&or9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Re&n&psml Re9D 9J9	y h SF: 6	t Ra&on9Fsq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 1292SJ16J2:	t s&sFAe9Nsme9J	15ScC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	Rn&w
cRmAnAm	20 2	1: S7SU6:	17412U65	1: 52- U04	1: 605U67	- U61	l l b
cn&mon%	121 1	SU57	SU02	SU00	SU67	1- U17	l l b
crwenAq	05 2	20U-	27U65	2: U05	2: U5:	4U1S	l l b
BsrAm	1- 5 1	276U41	- - 7U1:	4SSU2-	- 45U20	15U11	l l b
BsrAm	1- 0 1	275U0	- 45U21	4S1U0	- 40U4:	15U17	l l b
Ber%RAm	7 1	1U0	1U5S	1U65	1U51	7U52	l l b
BAmu&E	2S7 1				11S		G
BAmu&E	2S7 2				1S4		G
BromAne	: 1 1						ql w
v sOmAm	1S: 1	1U7:	2U5S	2U05	2U41	16U17	l l b
v sOmAm	1S6 1	1U15	SU62	SU72	SU1-	: 5: U10	l l b
v sOmAm	111 1	2U-	2U62	- U2S	2U01	16U2	l l b
v sRqAm	4- 1	5S466U S	5: S0- U1	67S15U56	571: 5U7	15U05	l l b
v sRqAm	44 1	51: 75U6	6S- 6SU4S	01121U44	61125U7S	15U06	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	- 5 1						ql w
v ERrAne	- 5 2						ql w
v EromAm	52 2	- 4U67	- 6U16	- 4U7	- 5U25	2U26	l l b
v obsR&	57 2	17U1-	17U67	17US6	17U27	1US	l l b
v ol l er	6- 2	42U02	45U55	44U46	44U24	- U22	l l b
t %wl rowAm	156 1						ql w
t %wl rowAm	156 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRnAm	16S 1						ql w
HsOoRnAm	16S 2						ql w
hoRmAm	165 1				11-		G
hoRmAm	165 2				1S5		G
DnOAm	115 1				112		G
DnOAm	115 2				77		G
Don	54 2	4: 6: 5U71	51- SSU2	4: 564U10	47516U70	- U12	l l b
Don	56 2	40: 66U5:	5S57- US2	47167U1	472S7US	2U00	l l b
Don	50 2	4: 05- U56	5S: S- U11	47167U02	47505U46	2U17	l l b
Kr%l &on	: - 1						ql w
LesO	2S6 1	5SU77	54U0	64U2S	56U52	12U14	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&or9J	aswl sP
Lsb9psml Re9D 9.9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Re na&psml Re9D 9.9	y h SF: 6	t Ra&on9Fsq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 1292SJ16.J2:	t s&sFAe9Nsme9J	15ScC. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
LesO	2S0 1	40U75	52U71	61U02	54U2S	12U0	l l b
LesO	2S: 1	4: U1	5- U4	62U4:	54U0	12U67	l l b
LA&EAum	6 1				1SS		G
y sMhewAum	24 2	1: 61- U71	17- 75US1	1: 002U50	1: 720U16	2U1:	l l b
y snMsnewe	55 2	0S5US2	042U-	0S0U10	01: U4	2U76	l l b
y oP%bOenum	74 1	4U72	5U66	6U6-	5U04	14U71	l l b
y oP%bOenum	75 1	2U52	2U0	- U42	2U74	15U4S	l l b
y oP%bOenum	76 1	2U05	- U15	- U00	- U22	15U7S	l l b
y oP%bOenum	70 1	2U46	2U7S	- U5-	2U76	1: U10	l l b
y oP%bOenum	7: 1	2U4:	2U76	- U5	2U7-	14U7S	l l b
NeoO%mAum	15S 1						ql w
NeoO%mAum	15S 2						ql w
NAqkeP	6S 2	47US2	5SU17	4: U10	47U1-	2US0	l l b
8 EowI Eoruw	- 1 2	1: 72U7-	1755U4	1764U56	17- 0U61	2US1	l l b
8 o&swwAum	- 7 2	4541US6	4: 11U02	46S4U5	4652U54	- US4	l l b
CEoOAum	1S- 1				1S7		G
CEoOAum	1S- 2				1S-		G
pqsnOAum	45 1				11S		G
pqsnOAum	45 2				70		G
pe&enAum	: 2 1	SU07	1U22	1U74	1U2	44US4	l l b
pe&enAum	00 2	22U65	- 6U7S	4SU50	- - U:	2: U6	l l b
pe&enAum	0: 2	6U4-	5U06	5U06	5U7:	6U46	l l b
pAqon	2: 1	15- U70	106U7	212U47	1: SU75	16U2	l l b
pAger	1S0 1	SU40	SU56	SU6-	SU56	14U2-	l l b
pAger	1S7 1	SU5-	SU57	SU6-	SU5:	: U06	l l b
poOAum	2- 2	- 1- U05	- - 2U42	- 2SU40	- 22U21	2U7-	l l b
p&onAum	: 6 1	157U10	1: - U1	215U57	1: 6U17	15U17	l l b
p&onAum	: : 1	167U1:	17- U16	220U77	176U0:	15US-	l l b
pu&ur	- 4 1	2050U4	14: : U5-	5: 1U57	1221U57		l l b
i erbAum	157 1				112		G
i erbAum	157 2				1S4		G
i EsPAum	2S- 1	SU40	SU5S	SU50	SU52	1SU17	l l b
i EsPAum	2S5 1	SU45	SU51	SU5:	SU51	1- US4	l l b
i A	11: 1	1U14	1U4S	1U6:	1U41	17US1	l l b
i A&snAum	40 1	62U01	02U17	: : U6	04U57	10U05	l l b
RrsnAum	2- : 1	2U5:	2U7S	- U5	2U74	1- U14	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Ae na&psml Re9D 9J9	y h SF: 6	t Ae a&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129 2SJ16.J2:	t s&sFAe9Nsme9J	15Sc C. FUD

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	Rn&w
VsnsOAum	51 2	07U5:	: - U54	: 1U7S	: 1U6:	2U44	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&Aum	: 7 1				116		G
Y&Aum	: 7 2				1S7		G
ZAnq	66 2	2- 7U1	256U61	245U00	240U4S	- U44	l l b
ZAqonAum	7S 1	1U6S	1U5	2U56	1U4	12U52	l l b
ZAqonAum	71 1	1U54	1U77	2U5	1U76	2SU4:	l l b

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LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S20	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S20	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb dCcmb	20 2	. 1606F22	. SSN1FS2	. 1S6. F7J	. SJ4SFNN	1F. N	DDe
q CTdb 5Ch	121 1	. SNF. 6	4N2F7N	. 1SF52	. SSF72	7F11	DDe
q pwr Ccd	0. 2	. 1JF. .	. 1JFS1	. 20FS1	. 21FN6	SFN6	DDe
Bspcmb	17. 1	2. N7FJ2	24. 0FSS	2. N1F46	2. 4SF0J	2FN6	DDe
Bspcmb	170 1	2. 66FS7	242. F67	2. 47FN0	2. 11FN.	7FSS	DDe
Br phPmb	J 1	4N0F4S	46JF17	404F67	400FS.	1FJ0	DDe
Bcwb mT%	2SJ 1				J0		E
Bcwb mT%	2SJ 2				J6		E
Bp5b dCr	N1 1						dDw
3 sob cmb	1SN 1	. 12FSN	4N. F02	. 1JF6S	. S. FNS	7F. 2	DDe
3 sob cmb	1S6 1	. S7F2.	40. F. J	. 21FSJ	4JJFJN	4F. J	DDe
3 sob cmb	111 1	. S7F66	4N1F6J	. S4F02	4J6F6J	2F62	DDe
3 sPdcmb	47 1	2. 4. . 1FN7	242462F07	246J7SF. 1	240JN1F6J	2F46	DDe
3 sPdcmb	44 1	24NNNNF60	276. 16F04	276J6NF40	24S0J1F2J	2FJ1	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %F5pdCr	7. 1						dDw
3 %F5pdCr	7. 2						dDw
3 %p5b cmb	. 2 2	4N0FS6	402F. 2	4JSFJ1	4N7F. S	2FS1	DDe
3 5esFT	. J 2	4N1F4.	460F4.	4J7F6N	4NSFN6	2F07	DDe
3 5DDr p	67 2	. S1SF77	4J. 6F06	. 1SJF0J	. S2. F62	1F. .	DDe
&hwDp5wcmb	1. 6 1						dDw
&hwDp5wcmb	1. 6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5FdCcmb	16S 1						dDw
Hso5FdCcmb	16S 2						dDw
K5Fb cmb	16. 1				1S.		E
K5Fb cmb	16. 2				1S2		E
tCocmb	11. 1				JN		E
tCocmb	11. 2				J2		E
tp5C	. 4 2	12644SF. 0	1270JJF1.	12J21. F01	1264N. F14	2F14	DDe
tp5C	. 6 2	1261N4FSS	12. J16F1.	12N676F77	126J12F16	1F1N	DDe
tp5C	. 0 2	12JSN4FN6	12471JF2.	171722F04	12N242F2N	2F0J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	2. JNF. J	247SF11	24. JF. 2	24J6FS0	7F61	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S20	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S20	&dPmT5C:UsdT5p:9	1
&sT:i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - Fo

8spsb r Tp	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	26SSF6J	242NF. 0	24SSFN6	2406F01	4F70	DDe
Lr so	2SN 1	2. 07F01	2472F21	244. F40	24N7FNS	7F1.	DDe
LdP%mb	6 1				N0		E
y sMCr wmb	24 2	2. N. 64FN1	2. 16JJF02	26. SJSF47	2. N4. 1F6.	2F. J	DDe
y sCMsCr wr	. . 2	. S04F. 7	. S20FN1	. 101FN0	. SJ1F41	1F44	DDe
y 5Pheor Cmb	J4 1	. S67FSJ	4N7NFS1	4N1. F44	4JS. F. 1	2F0J	DDe
y 5Pheor Cmb	J. 1	. S. . FJ4	40J0F6J	4N4JFJ7	4JS1F1J	2F0J	DDe
y 5Pheor Cmb	J6 1	. S76F. S	4N61FS2	4J47F. N	4J40FS7	1F00	DDe
y 5Pheor Cmb	J0 1	4J01F7J	4N7JFJ.	4J2JF60	4J17F60	1F70	DDe
y 5Pheor Cmb	JN 1	4JJ. FS1	400NF6S	4J6. FN4	4J17F1.	2F7J	DDe
ur 5ohb cmb	1. S 1						dDw
ur 5ohb cmb	1. S 2						dDw
ucdf r P	6S 2	4J7F0N	4N. F7.	4J0F0.	4J2F7S	1F2J	DDe
8 %5wD%5pmw	71 2	J00. F1.	J407FN0	1SS70FN.	J062F2J	2FNJ	DDe
8 5Tswwcmb	7J 2	17SNSJF06	12. 1. NF76	12N440F66	12N17NF. J	2F22	DDe
v %5ocmb	1S7 1				J4		E
v %5ocmb	1S7 2				J4		E
I dsCocmb	4. 1				JN		E
I dsCocmb	4. 2				J7		E
I r P Cmb	N2 1	. S7FSJ	402FS4	4N1F. 2	4N. F. .	7F2N	DDe
I r P Cmb	00 2	4N4F6.	46NF. 7	. S6F72	4N6F. S	7FJS	DDe
I r P Cmb	0N 2	. 2JFN0	. 24F16	. 41F. 0	. 71FN0	1F60	DDe
I dcd5C	2N 1	. 2. FS.	. S4F60	. 17FJ0	. 14F. 6	1FJN	DDe
I dgr p	1S0 1	4J. F2N	4N6F26	. 12FS4	4J0FN6	2F67	DDe
I dgr p	1SJ 1	4J. FJJ	40SFN.	4J1F60	4N6F10	2F06	DDe
I 5ocmb	27 2	261JJ. F06	2. 11. 0FS0	260600F6S	26S206FN1	7F22	DDe
I Tp5CTcmb	N6 1	12024F46	11N2SF21	12SN2F21	122SNFJ6	7FN1	DDe
I Tp5CTcmb	NN 1	1247NF. 2	11N. 2FN7	12172F0J	12141F7N	2F41	DDe
I mPVmp	74 1	JJ26FN1	NNSJF. 1	NJ. SFJ7	J22JFSN	6F. J	DDe
Ar pecmb	1. J 1				1S7		E
Ar pecmb	1. J 2				1S1		E
A%sPbmb	2S7 1	. 2NFJ0	. S2F17	4JJF64	. 1SF2.	7F1J	DDe
A%sPbmb	2S. 1	. 10F02	4N0F4N	4J6F. N	. SSF. J	7F1S	DDe
AdC	11N 1	. 16FS0	4NNF4J	. S4FS4	. S2FN6	2F0.	DDe
AdsCmb	40 1	. 10. F. 4	4N04FSS	4N. 0F60	4J6JFS0	7F6S	DDe
RpsCmb	27N 1	. S2F4N	40JF0N	4J7F12	4J1F0J	2F72	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S20	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S20	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	. 1 2	. 14F6J	. SJF2J	. 27F0J	. 1. FJ2	1F42	DDe
YTTr pe omb	102 1						dDw
YTTr pe omb	102 2						dDw
YTTr pe omb	106 1						dDw
YTTr pe omb	106 2						dDw
YTTpomb	NJ 1				1SS		E
YTTpomb	NJ 2				J.		E
ZdCd	66 2	4N. SF71	4607F0S	4J14F. 6	4N12FN6	2F. J	DDe
Zqpd5Comb	JS 1	4JJFJS	40NFJ.	4N2F76	4N0FS0	2F71	DDe
Zqpd5Comb	J1 1	40JF0J	4. 1F. 6	462FJ.	464F06	7FS6	DDe

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LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
AwNu iniNu	2072	- .- 1	1.- y	2.44	2.- P	4S.2-	ppm
Antiu onh	12171	S.24	S.1y	S.- S	S.24	22.1y	ppm
Aeabnic	0572	S.S5	S.SS	S.S5	S.S-	0y.P2	ppm
BJeiNu	1- 571	S.2S	S.1S	S.- 2	S.21	51.Py	ppm
BJeiNu	1- 071	S.2-	S.1S	S.2P	S.2S	45.50	ppm
BbehwiNu	y71	S.14	S.SP	S.1-	S.12	2P.22	ppm
Biau Nt%	2Sy71				y5		E
Biau Nt%	2Sy72				1S-		E
Beou inb	P171						cpa
3 Jdu iNu	1SP71	S.11	7S.Sy	S.14	S.S5	24S.Py	ppm
3 Jdu iNu	1S671	74.61	75.2-	70.- 4	75.0-		ppm
3 Jdu iNu	11171	S.S5	S.S5	S.S6	S.S6	- .PP	ppm
3 JwiNu	4- 71	2y.PS	1- .6P	5S.P5	- 1.44	5y.2P	ppm
3 JwiNu	4471	11S.12	6P.P2	115.- 1	yP.SP	25.y0	ppm
3 Jemon	1271						cpa
3 Jemon	1272						cpa
3 %weinb	- 571						cpa
3 %weinb	- 572						cpa
3 %eou iNu	5272	S.S5	S.S5	S.Sy	S.S6	- 5.yP	ppm
3 omJw	5y72	S.S-	S.S1	S.SS	S.S1	126.S6	ppm
3 oppbe	6- 72	1.21	S.6P	S.60	S.P5	- 6.Sy	ppm
DhapeoaiNu	15671						cpa
DhapeoaiNu	15672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
GJdowiniNu	16S71						cpa
GJdowiniNu	16S72						cpa
Howu iNu	16571				y6		E
Howu iNu	16572				1S-		E
IndiNu	11571				y5		E
IndiNu	11572				yy		E
Ieon	5472	6.40	5.1y	- .1y	4.y5	- - .- P	ppm
Ieon	5672	0.P6	2.0P	6.14	5.5y	46.1y	ppm
Ieon	5072	0.P5	- .22	2.1-	4.4S	6P.y4	ppm
Kehpton	P- 71						cpa
LbJd	2S671	S.- 4	S.2S	S.- 2	S.2y	25.04	ppm

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LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
LbJd	2S071	S.- -	S.26	S.2y	S.2y	12.- S	ppm
LbJd	2SP71	S.- 6	S.26	S.- 6	S.- -	1P.44	ppm
Lit%iNu	671				P0		E
MJgnbaiNu	2472	11.yP	5.02	0.02	P.40	- 0.0S	ppm
MJngJnbab	5572	S.25	S.1-	S.12	S.16	44.21	ppm
MowmdbnNu	y471	1.S2	S.4S	S.y0	S.PS	4- .25	ppm
MowmdbnNu	y571	S.05	S.- y	S.PP	S.60	- 0.P-	ppm
MowmdbnNu	y671	S.01	S.4S	1.S4	S.02	45.20	ppm
MowmdbnNu	y071	S.06	S.4S	S.yS	S.6y	- P.10	ppm
MowmdbnNu	yP71	S.02	S.4-	S.yS	S.6y	- 5.1S	ppm
8 bodhu iNu	15S71						cpa
8 bodhu iNu	15S72						cpa
8 ickbw	6S72	S.S5	S.SS	S.S4	S.S-	0y.Sy	ppm
I %ap%eNa	- 172	704.0S	704.y2	765.6-	701.05		ppm
I otJaaiNu	- y72	0S.- S	51.05	56.00	5y.6S	16.1S	ppm
R%diNu	1S- 71				y4		E
R%diNu	1S- 72				1S-		E
r cJndiNu	4571				y2		E
r cJndiNu	4572				y4		E
r bwniNu	P271	7S.- 0	7S.- S	S.15	7S.10		ppm
r bwniNu	0072	7S.- P	7S.- P	7S.- P	7S.- P		ppm
r bwniNu	0P72	S.- 1	7S.- -	S.12	S.S-	1S11.1S	ppm
r iwicon	2P71	1.Sy	S.4S	S.- P	S.62	64.y5	ppm
r iwbe	1S071	S.S5	S.S4	S.S2	S.S4	- - .52	ppm
r iwbe	1Sy71	S.S4	S.S4	S.S4	S.S4	2.SS	ppm
r odiNu	2- 72	1- P.0y	120.65	12- .14	12y.P6	6.2S	ppm
r teontiNu	P671	1.- 6	S.6y	1.y1	1.- 2	46.2-	ppm
r teontiNu	PP71	1.15	S.5y	2.S5	1.26	5P.- 4	ppm
r NifNe	- 471	162S.- 4	702.62	71PS.4y	455.04	221.62	ppm
TbemiNu	15y71				y5		E
TbemiNu	15y72				1S-		E
T%JwiNu	2S- 71	S.26	S.2-	S.2-	S.24	P.- P	ppm
T%JwiNu	2S571	S.2y	S.22	S.22	S.24	16.56	ppm
Tin	11P71	S.S5	S.S1	S.SS	S.S2	115.PP	ppm
TitJniNu	4071	S.55	S.- S	1.S-	S.6-	5P.y0	ppm
UeJniNu	2- P71	S.S5	S.S-	S.S0	S.S5	40.y1	ppm

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LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
VJnJdiNu	5172	S.S2	S.SS	S.S1	S.S1	y6.6-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				y4		E
YtteiNu	Py72				yP		E
Zinc	6672	S.2-	S.- 4	S.16	S.24	- 6.Sy	ppm
ZieconiNu	yS71	S.S4	S.S1	S.S5	S.S4	56.52	ppm
ZieconiNu	y171	S.S-	S.S-	S.14	S.S0	y0.6y	ppm

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Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFJ0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:2S9-79SJ	t s&sFAe:Nsme:9	150c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJv onqU	v onqCpt	Rn&w
cRmAAm	20 2	12715U2J	1- 212U24	1- 14JUJ2	1- S72U12	1U17	l l b
cn&mon%	121 1	1U-1	1U2S	1U15	1U22	6U7S	l l b
crwenAq	05 2	2- U45	22U-0	24U-4	2- U-7	4U2S	l l b
BsrAm	1- 5 1	- - 5U60	- S7U45	- 1- U15	- 17U42	4U44	l l b
BsrAm	1- 0 1	- - 1U6S	- 12US7	- 17U-6	- 21US2	- US0	l l b
Ber%RAm	7 1	- U-6	- U42	- U40	- U42	1U54	l l b
BAmu&E	2S7 1				1S0		G
BAmu&E	2S7 2				1S2		G
BromAe	J1 1						ql w
v sOmAm	1SJ 1	1U66	2U2S	1U07	1UJJ	15US-	l l b
v sOmAm	1S6 1	1U45	1U41	2U4J	SUJ1		l l b
v sOmAm	111 1	1UJ-	1UJ2	1U06	1UJS	1UJ0	l l b
v sRqAm	4- 1	1271JU-5	1- 275US6	12J27USJ	1- S14U16	1U7S	l l b
v sRqAm	44 1	1- 716U51	14216U54	1- 60JU45	1- 7- 0U10	1U7-	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	- 5 1						ql w
v ERrAe	- 5 2						ql w
v EromAm	52 2	1JU75	17U66	17U27	17U-S	1UJ5	l l b
v obsR&	57 2	11U00	12U12	12US6	11U7J	1U6S	l l b
v ol l er	6- 2	4SUJ-	42US7	41U61	41U51	1U52	l l b
t %W rowAm	156 1						ql w
t %W rowAm	156 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
hoRmAm	165 1				1SJ		G
hoRmAm	165 2				1S-		G
DrOAm	115 1				1S6		G
DrOAm	115 2				7J		G
Don	54 2	- S- SJU7S	- 1SJ7U50	- 1204U65	- SJ71US4	1U66	l l b
Don	56 2	27772U52	- SJ14UJ0	- 1142U2J	- S647UJ7	1U7-	l l b
Don	50 2	20022U16	2J15JU-J	2J2J0U-6	2JS55U70	1US6	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	125USJ	124U2J	121U70	12- U0J	1U-S	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFJ0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:2S9-79SJ	t s&sFAe:Nsme:9	150c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	117U1S	116U55	11- U50	116U41	2UJ J	I I b
LesO	2SJ 1	122U04	121US-	110U05	12SU5S	2U1S	I I b
LAEAum	6 1				75		G
y sMnewAum	24 2	4447U5-	4542U06	4504U27	4522U2S	1U4-	I I b
y snMsnewe	55 2	1S24U60	1S62UJJ	1S50U54	1S4JUJ0	1U70	I I b
y oP%bOenum	74 1	6U54	6U47	6UJ5	6U46	1U54	I I b
y oP%bOenum	75 1	2U61	2U51	2U64	2U57	2U05	I I b
y oP%bOenum	76 1	- USJ	- US1	- USS	- US-	1U40	I I b
y oP%bOenum	70 1	2U61	2U50	2UJ7	2U52	4U6J	I I b
y oP%bOenum	7J 1	2U6S	2U6J	2U5S	2U57	- U4S	I I b
NeoO%mAum	15S 1					ql w	
NeoO%mAum	15S 2					ql w	
NAqkeP	6S 2	2SU27	2SU57	21US6	2SU65	1UJJ	I I b
8EowI Eoruw	- 1 2	2150UJJ	2166U46	2S15UJ7	211- U24	4USS	I I b
8o&swwAum	- 7 2	657- UJ-	6J20US4	60- 7U6-	602SU10	1U05	I I b
CEoOAum	1S- 1				1S4		G
CEoOAum	1S- 2				1S-		G
pqsnOAum	45 1				1S5		G
pqsnOAum	45 2				75		G
pe&enAum	J2 1	1U00	1U61	1U44	1U61	1SU41	I I b
pe&enAum	00 2	61UJ0	62U45	67U26	64U5-	6UJ0	I I b
pe&enAum	0J 2	7UJ0	11U5-	11UJ2	1SU71	JUJ1	I I b
pAqon	2J 1	1J0U72	174US4	1J0U4S	1J7U07	1U75	I I b
pAger	1S0 1	2U17	2US6	2US2	2US7	4U26	I I b
pAger	1S7 1	2U21	2US1	2US2	2USJ	5U44	I I b
poOAum	2- 2	2S2UJ-	2S- U2-	176U00	2SSU74	1UJS	I I b
p&on&Aum	J6 1	7SU61	71UJ1	JJU41	7SU2J	1U71	I I b
p&on&Aum	JJ 1	75UJ7	7JUSS	7- U77	75U76	2US7	I I b
pu&ur	- 4 1	1S0U40	- S- U45	664U14	- 5JUJ5		I I b
i erbAum	157 1				1S7		G
i erbAum	157 2				1S4		G
i EsPAum	2S- 1	SU57	SU62	SU5J	SU6S	- U22	I I b
i EsPAum	2S5 1	SU61	SU57	SU62	SU61	2U41	I I b
i An	11J 1	4U27	- U72	4UJS	4U10	5U16	I I b
i A&snAum	40 1	22- U4-	227U04	222U74	225UJ0	1U6J	I I b
RrsnAum	2- J 1	4U44	4U6J	4U5S	4U54	2U00	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFJ0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:2S9-79SJ	t s&sFAe:Nsme:9	150c C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	51 2	47U55	51U00	5SU42	5SU5J	2U21	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	J7 1				11-		G
Y&&Aum	J7 2				11S		G
ZAnq	66 2	- - 4U-J	- 42U01	- - 7U15	- - JU04	1U2-	l l b
ZAqonAum	7S 1	2U4J	2U-0	2U41	2U42	2U20	l l b
ZAqonAum	71 1	2U41	2U45	2U5S	2U45	1UJ-	l l b

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Lsb:psml Re:D :9	3 - 447 1S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFJJ	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:2S9429SJ	t s&sFAe:Nsme:9	15JcC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAm	20 2	J427US1	776- U60	1- - S2U7	1S565US2	2- U5J	l l b
cn&mon%	121 1	2U25	2U26	2U1J	2U2-	2US-	l l b
crwenAq	05 2	- 0U20	45U42	64U12	4JU74	2JU1-	l l b
BsrAm	1- 5 1	- S1U50	277U04	- S6U41	- S2U5J	1U14	l l b
BsrAm	1- 0 1	- S0U-S	277U-5	- S7UJ2	- S5U47	1U07	l l b
Ber%RAm	7 1	2U27	2U20	2U22	2U26	1U55	l l b
BAmu&E	2S7 1				1S6		G
BAmu&E	2S7 2				1S6		G
BromAne	J1 1						ql w
v sOmAm	1SJ 1	1U06	1U0-	1U52	1U60	0U6-	l l b
v sOmAm	1S6 1	1U22	4U54	1UJ5	2U54		l l b
v sOmAm	111 1	1U4-	1U-6	1U6-	1U40	7U6S	l l b
v sRqAm	4- 1	1- J- JU1-	14SS1US-	141J1U71	14SS0US2	1U2-	l l b
v sRqAm	44 1	1400SU5S	14642US4	140S7UJ4	140S0U46	SU44	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	- 5 1						ql w
v ERrAne	- 5 2						ql w
v EromAm	52 2	17US6	22U4S	- SU2-	2- U7S	2- U77	l l b
v obsR&	57 2	JU6S	1SUS2	1- U10	1SU6S	22USJ	l l b
v ol l er	6- 2	- 7U12	45U25	61U04	4JU0S	24US-	l l b
t %w l rowAm	156 1						ql w
t %w l rowAm	156 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
hoRmAm	165 1				1S0		G
hoRmAm	165 2				1S5		G
DrOAm	115 1				1S0		G
DrOAm	115 2				1S1		G
Don	54 2	216- 0US4	25765US6	- 474- U50	20515U22	24U60	l l b
Don	56 2	210J- U7-	25- 1- U14	- - J40U-6	267J1U40	22U77	l l b
Don	50 2	17720U75	2- 607U40	- 17SJU21	25101UJJ	24U-4	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	154UJ-	147U04	15SU22	151U6S	1UJ5	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFJJ	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:2S9429SJ	t s&sFAe:Nsme:9	15Jc C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	140U5-	14JU54	145U2J	140U12	1U14	l l b
LesO	2SJ 1	157U0S	157U6S	155U4-	15JU24	1U54	l l b
LA&EAm	6 1				75		G
y sMnewAm	24 2	- 651U0J	42J0U62	560- U2S	45- 0U54	22U0J	l l b
y snMsnewe	55 2	714U20	1SJ- U6	1461U6J	115- U1S	24U1	l l b
y oP%bOenum	74 1	6U71	0US2	6U70	6U70	SUJ1	l l b
y oP%bOenum	75 1	4U46	4U45	4U72	4U61	5U00	l l b
y oP%bOenum	76 1	4UJ4	4U0-	4UJ7	4UJ2	1U67	l l b
y oP%bOenum	70 1	5U1S	4U77	4U4J	4UJ6	6UJ4	l l b
y oP%bOenum	7J 1	4U0S	4U01	4U62	4U6J	1US2	l l b
NeoO%mAm	15S 1						ql w
NeoO%mAm	15S 2						ql w
NAqkeP	6S 2	24U46	27US7	4SUSJ	- 1U21	25U01	l l b
8 EowI Eoruw	- 1 2	7- 5U1J	1116U12	1520U1S	1172UJS	25U4-	l l b
8 o&swwAm	- 7 2	- 25SU0S	- J40U74	5252U2-	4116U76	24U76	l l b
CEoOAm	1S- 1				1S6		G
CEoOAm	1S- 2				1S6		G
pqsnOAm	45 1				1S4		G
pqsnOAm	45 2				76		G
pe&enAm	J2 1	SU64	SUJ1	SU65	SU0S	1- U00	l l b
pe&enAm	00 2	- 2UJ4	- 2UJ1	4SU7J	- 5U21	14U17	l l b
pe&enAm	0J 2	6US0	JUJS	11UJ7	JU06	- SUJ0	l l b
pAqon	2J 1	15SU15	15SUJ0	154U06	151U06	1U02	l l b
pAger	1S0 1	1U05	1U00	1U0-	1U05	SU77	l l b
pAger	1S7 1	1UJ5	1U66	1U01	1U04	5UJ5	l l b
poOAm	2- 2	2S7UJ4	264U56	4S- U74	272U61	- 4U20	l l b
p&on&Am	J6 1	1SJU05	11SU1J	11SU5S	1S7UJ1	SUJ5	l l b
p&on&Am	JJ 1	115U5J	117U4-	110U11	110UJJ	1U65	l l b
pu&ur	- 4 1	6- 7U52	066UJ0	54JU4S	651U4-		l l b
i erbAm	157 1				1SJ		G
i erbAm	157 2				1S6		G
i EsPAm	2S- 1	SU40	SU54	SU4J	SU5S	0UJ1	l l b
i EsPAm	2S5 1	SU51	SU47	SU40	SU47	- UJS	l l b
i An	11J 1	0U02	0UJ1	JUS1	0UJ5	1U72	l l b
i A&snAm	40 1	167U04	101U7-	104UJ0	102U1J	1U47	l l b
RrsnAm	2- J 1	- US1	- US6	2U75	- USS	1UJ0	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFJJ	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:2S9429SJ	t s&sFAe:Nsme:9	15Jc C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	Rn&w
VsnsOAum	51 2	42U4J	47U0-	65U00	52U66	22U6-	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	J7 1				111		G
Y&&Aum	J7 2				111		G
ZAnq	66 2	224U5-	265US1	- 57U21	2J2U72	24U42	l l b
ZAqonAum	7S 1	1U02	1U06	1U04	1U04	1U12	l l b
ZAqonAum	71 1	1U66	1U04	1U67	1U0S	2U5J	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTop:9	aswl sP
Lse:I sb DPP:t&:9	3 - 4- - 7S4	tnwTpmb nr Tu sb r :9	8 N
v Pr nTI sb DPP:t&:9	y ah 52	&dPmTon:FsqTop:9	1
&sTr :i :Adb r : qdmqpr O.9	2S2- 7S0712:2S94J9SJ	&sTsFdPP:u sb r :9	1J5 C. FUO

8 sps b r Tr p	y sww	v onCr D1	v onCr D2	v onCr D-	gMU:v onqU	v onqCI &	RncTw
Pmb cncmb	2072	J- N04U5S	6N- 65U61	J4JN4USS5	JN542UN0	1- UN6	DDe
nTb on%	12171	SU-S	SU-S	SU-	SU-1	JU5N	DDe
pwr ncq	0J72	4NUN1	JNU-	4NUJ2	J1UN5	1SU0J	DDe
Bspcmb	1- J71	210U45	216U0N	21JUJN	216U61	SU4J	DDe
Bspcmb	1- 071	21JU44	210UJ5	215U1S	210U-N	SUNU	DDe
Br p%PPmb	571	SU0J	SU0J	SU06	SU0J	SU54	DDe
Bcvb mTE	2S571				11S		G
Bcvb mTE	2S572				1SS		G
Bpob cnr	N171						qDw
v sCb cmb	1SN71	SU5J	SUN0	SU40	SU06	- - U2J	DDe
v sCb cmb	1S671	7- US1	7- U-	7JU10	7- UN-		DDe
v sCb cmb	11171	SU15	SU1J	SU12	SU1J	22U22	DDe
v sPqcmb	4- 71	4J6JU1J	4450U56	4J5JU1J	4JJ2U0J	1US5	DDe
v sPqcmb	4471	454- U5J	4N4SU20	4541U0-	45SNU6J	1U21	DDe
v speon	1271						qDw
v speon	1272						qDw
v EPpcnr	- J71						qDw
v EPpcnr	- J72						qDw
v Epob cmb	J272	261UN1	- 2SU15	2620U2	2N1UJ0	11UNN	DDe
v oesPT	J572	- 6USN	4- U65	- 6U14	- NU64	11U-2	DDe
v oDDr p	6- 72	116USO	141UJ5	11JUN5	124UJ2	11UN0	DDe
&%wDpowcmb	1J671						qDw
&%wDpowcmb	1J672						qDw
. pecmb	16471						qDw
. pecmb	16472						qDw
HsCoPhcmb	16S71						qDw
HsCoPhcmb	16S72						qDw
KoPb cmb	16J71				11-		G
KoPb cmb	16J72				1S2		G
tnOcmb	11J71				11S		G
tnOcmb	11J72				56		G
tpon	J472	0S202US6	N4J- - U-5	0SNJ1U65	0J215USJ	1SU0-	DDe
tpon	J672	6NN0- U-2	NJJ41U41	0S2- 2U-S	04NN2U-4	12U-6	DDe
tpon	J072	01SSNU01	N0J0- U12	0SJ- 2U2-	06- 01U-J	12U01	DDe
k p%DTon	N- 71						qDw
Lr sO	2S671	- NU44	- 5U26	- 5U5S	- 5U2S	1UN6	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTop:9	aswl sP
Lse:I sb DPP:t&:9	3 - 4- - 7S4	tnwTpmb nr Tu sb r :9	8 N
v Pr nTI sb DPP:t&:9	y ah 52	&dPnTon:FsqTop:9	1
&sTr :i :Adb r : qdmqpr O.9	2S2- 7S071 2:2S94J9SJ	&sTsFdPP:u sb r :9	1J5 C. FUD

8 sps b r Tr p	y sww	v onCr D1	v onCr D2	v onCr D-	gMU v onqU	v onqCI &	RncTw
Lr sO	2S071	- 5U1S	- NU2S	4SU1S	- 5U1-	2U42	DDe
Lr sO	2SN71	- NU5N	- NU61	- 5U65	- 5US5	1U4S	DDe
LdEomb	671				1S1		G
y sMhr womb	2472	2JJ2- U4S	- 1S4SU46	2JJ5- U40	20- NJU00	11UJ6	DDe
y snMsnr wr	JJ72	1- 6NU05	1665UJN	1- N4UJ5	1404U2J	11U4N	DDe
y oP%eOr nnmb	5471	JU2J	JUJ4	JUS6	JU22	2U02	DDe
y oP%eOr nnmb	5J71	1U1S	1U12	1US5	1U1S	1U05	DDe
y oP%eOr nnmb	5671	1U6S	1U6-	1U6J	1U6-	1U64	DDe
y oP%eOr nnmb	5071	1U2S	1U14	1UJ0	1U24	5UJ2	DDe
y oP%eOr nnmb	5N71	1U12	1U21	1U15	1U10	4US2	DDe
u r oO%b omb	1JS71						qDw
u r oO%b omb	1JS72						qDw
u oqf r P	6S72	16- USN	2SSUS6	162U00	10JUJS	12U2-	DDe
8 EowDEopmw	- 172	N- 6U1S	12S1U0J	511US2	5N2U56	15U6J	DDe
8 oTswwomb	- 572	122JU0N	1J40U24	122JU0S	1- - 2U51	1- U5-	DDe
CEoOomb	1S- 71				1S5		G
CEoOomb	1S- 72				1SS		G
I qsnOomb	4J71				11-		G
I qsnOomb	4J72				50		G
I r Pnomb	N271	SUSS	SUSJ	SU15	SUSN	126UJ2	DDe
I r Pnomb	0072	12U6S	- U4-	1JU51	1SU6J	6SU02	DDe
I r Pnomb	0N72	1U0S	1UJJ	1UN1	1U65	0U04	DDe
I dqon	2N71	- - - U50	- 20UN4	- 4JU6N	- - JUN-	2U0S	DDe
I dgr p	1S071	SUS5	SUS5	SU1S	SU1S	0UJ0	DDe
I dgr p	1S571	SUSN	SUS5	SUS5	SUS5	JU6S	DDe
I oOomb	2- 72	26NU2-	- J6U66	26JUJ0	256U0J	10U45	DDe
I TponTomb	N671	JSUS-	45UNN	JSU0S	JSU21	SUN0	DDe
I TponTomb	NN71	JSUJ0	4NUJS	45U45	45U4J	1U5S	DDe
I mPVmp	- 471	72N2NU66	7- S5- UNU	725N2U0J	7256NU42		DDe
Ar peomb	1J571				112		G
Ar peomb	1J572				1S1		G
AEs Pbmb	2S- 71	SU21	SU21	SU1N	SU2S	NUJ6	DDe
AEs Pbmb	2SJ71	SU10	SU15	SU21	SU15	1SUJ-	DDe
Aon	11N71	SUJJ	SU25	SUJ4	SUJ2	1SUJN	DDe
AdSnomb	4071	0- 6UJJ	010UN4	0- NU65	0- SU56	1UJ6	DDe
Rpsnomb	2- N71	1U4S	1UJ0	1U4J	1U41	2U6J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr psTop9	aswl sP
Lse:I sb DPP:t&:9	3 - 4- - 7S4	tnwTpmb nr Tu sb r :9	8 N
v Pr nTI sb DPP:t&:9	y ah 52	&dPmTon:FsqTop9	1
&sTr :i :Adb r : qdmqpr O.9	2S2- 7S0712:2S94J9SJ	&sTsFdP:u sb r :9	1J5 C. FU0

8 sspsb r Tr p	y sww	v onCr D1	v onCr D2	v onCr D-	gMU:v onqU	v onqCI &	RndTw
hsnsOomb	J172	115U04	14NU6S	121U05	1- SUS4	12UJ N	DDe
YTTr peomb	10271						qDw
YTTr peomb	10272						qDw
YTTr peomb	10671						qDw
YTTr peomb	10672						qDw
YTTpomb	N571				114		G
YTTpomb	N572				55		G
Zonq	6672	12SUJ0	1JSU6N	12SU4N	1- SUJ1	1- UJ N	DDe
Zqpqonomb	5S71	2UJ5	2UJ4	2U42	2UJ N	1U65	DDe
Zqpqonomb	5171	2U25	2UJ1	2U4S	2UJ4	2UJ-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9u mb er p9J	LB1264S0	3 Dr pwTbp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S1:	tnl Tpmb nr T9u wb r 9J	Na
R8r nT9 wb D8 9l&9J9	My S. a1:	&8mTbon9 wqTbp9J	1
&wTr 9 9Adb r 9 qdmqpr C9J	2S2- S0 1292SJ4aJS2	&wTw. 8 9u wb r 9J	16S: 5 C. FO

Nwpwb r Tr p	Mwl l	Ron5 r D1	Ron5 r D2	Ron5 r D-	: vgF9RonqF	Ronq5 l &	UncT
: 8mb cncmb	20 2	1- 4S6F- 2	1h7- 2F02	1h6- 1FS4	1477SFS-	7F2S	DDe
: nTb on%	121 1	SF02	SF04	SF00	SF0h	- F4S	DDe
: pl r ncq	0h 2	24F0h	- SF01	- 1F6h	27FS4	12F7S	DDe
Bwpcmb	1- h 1	1171F61	1170F01	1214F01	12S1F- 4	1FSS	DDe
Bwpcmb	1- 0 1	1216F01	12S- F00	1177F- -	12S6F6S	SF0h	DDe
Br p%8cmb	7 1	1F6S	1F60	1F60	1F64	2Fh2	DDe
Bd b mlE	2S7 1				11S		G
Bd b mlE	2S7 2				1SS		G
Bpob cnr	a1 1						qDl
RwCb cmb	1Sa 1	1F40	1F0S	1F74	1F01	1- F7-	DDe
RwCb cmb	1S6 1	SF74	4F2h	SF1a	1F16		DDe
RwCb cmb	111 1	1F42	1F47	1F- h	1F42	hFSS	DDe
Rw8qcmb	4- 1	10h7hF1-	106- - F06	10612F7S	1061- F7-	SF11	DDe
Rw8qcmb	44 1	1a011F0a	1a170F67	1a- 1hF70	1a4SaF4a	1F46	DDe
Rwpeon	12 1						qDl
Rwpeon	12 2						qDl
RE8pcnr	- h 1						qDl
RE8pcnr	- h 2						qDl
REpob cmb	h2 2	22F17	2hF0a	2hF6h	24Fh4	aF- S	DDe
Roew8T	h7 2	1hF77	17F24	1aF76	1aFS6	7F7a	DDe
RoDDr p	6- 2	00F27	71F71	72Fh-	a0F24	7Fa7	DDe
&%Dpol cmb	1h6 1						qDl
&%Dpol cmb	1h6 2						qDl
Cpecmb	164 1						qDl
Cpecmb	164 2						qDl
HwCb8ncmb	16S 1						qDl
HwCb8ncmb	16S 2						qDl
y o8b cmb	16h 1				11S		G
y o8b cmb	16h 2				1S1		G
tnCcmb	11h 1				11S		G
tnCcmb	11h 2				7h		G
tpon	h4 2	41171FS4	471hSF4S	4a421F67	462h4F- a	7Fh1	DDe
tpon	h6 2	41ShSFh0	4a7h0Fa2	4a147F22	46Sh2Fh4	7F4h	DDe
tpon	h0 2	4164SF66	4a4a- Fah	47427FS0	46h10Fa6	7F14	DDe
Kp%DTon	a- 1						qDl
Lr wO	2S6 1	ahF7h	a4F4-	ahFS2	ahF14	SF7S	DDe

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Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr pwTbp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S1:	tnl Tpmb nr T9u wb r 9J	Na
R8r nT9l wb D8 9l&9J9	My S. a1:	&8mTcon9 wqTbp9J	1
&wTr 9 9Acb r 9 qdmqpr C9J	2S2- S0 1292SJ4aJS2	&wTw. c8 9u wb r 9J	16S: 5 C. FO

Nwpwb r Tr p	Mwl l	Ron5 r D1	Ron5 r D2	Ron5 r D-	: vgF9RonqF	Ronq5 l &	UncT
Lr wO	2S0 1	a1Fha	aSFa7	a2F1-	a1Fh-	SF06	DDe
Lr wO	2Sa 1	a- F07	a2F7h	a- Fh6	a- F4-	SFh2	DDe
LcTEcmb	6 1				1S2		G
Mwgnr l cmb	24 2	6- h6F21	0h1- F6h	0- 47F0-	0S0- F2S	aFah	DDe
Mwngwnr l r	hh 2	726F72	11S7F4a	11ShF41	1S40F20	7F7h	DDe
Mo8%eOr nmb	74 1	1SFh6	11F- 4	11F22	11FS4	- FaS	DDe
Mo8%eOr nmb	7h 1	1F67	1FaS	1Fh7	1F67	6FS1	DDe
Mo8%eOr nmb	76 1	2F7-	2F01	2F07	2Fa1	4FSS	DDe
Mo8%eOr nmb	70 1	1F0S	1F02	1F0-	1F02	SFah	DDe
Mo8%eOr nmb	7a 1	1F66	1F67	1F01	1F67	1F61	DDe
u r oO%b cmb	1hS 1						qDl
u r oO%b cmb	1hS 2						qDl
u cqkr 8	6S 2	- 1F6h	- 0F- 0	- 0F74	- hF6h	7F0h	DDe
NEol DEopml	- 1 2	- 27aFS1	- a0hFhS	- 047FS1	- 64SFa4	aF- 4	DDe
NoTwl l cmb	- 7 2	h147F26	6S1aF2S	h7h- F- h	h0S6F74	aF4a	DDe
5 EoOcmb	1S- 1				1S7		G
5 EoOcmb	1S- 2				1S1		G
l qwnOcmb	4h 1				112		G
l qwnOcmb	4h 2				7-		G
l r 8 ncmb	a2 1	1Fh4	1Fa6	1Fa2	1F04	7F71	DDe
l r 8 ncmb	00 2	4SF76	haF- -	- 0F- -	4hFh4	24F6h	DDe
l r 8 ncmb	0a 2	6FaS	11F- a	11F4S	7Fa6	26Fa6	DDe
l 8cqon	2a 1	24- F- -	2- aF- S	2- aF- a	24SFSS	1F2S	DDe
l 8vr p	1S0 1	SF- a	SF- 2	SF- h	SF- h	0F76	DDe
l 8vr p	1S7 1	SF- a	SF- 7	SF- 7	SF- 7	1F62	DDe
l oOcmb	2- 2	1aaF- S	246F2a	2- - FaS	222F07	1- F0S	DDe
l TponTcmb	a6 1	1h0F7S	162Fa1	161FS2	16SFha	1Fhh	DDe
l TponTcmb	aa 1	16aFa7	16aF61	167F7-	167F14	SF41	DDe
l m8mp	- 4 1	1- 0aFS7	1412F67	127hF7h	1- 62F2h		DDe
Ar pecmb	1h7 1				11-		G
Ar pecmb	1h7 2				1S1		G
AEw8cmb	2S- 1	SF- 4	SF- 2	SF- h	SF- 4	- F0h	DDe
AEw8cmb	2Sh 1	SF- -	SF- 4	SF- -	SF- -	1F- -	DDe
Acn	11a 1	1F0S	1F67	1F6-	1F60	2F- h	DDe
AcTwncmb	40 1	112F60	1S7F16	112Fh1	111F4h	1F0a	DDe
Upwncmb	2- a 1	- F14	- F1h	- F11	- F1-	SF64	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9u mb er p9J	LB1264S0	3 Dr pwTbp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S1:	tnl Tpmb nr T9u wb r 9J	Na
R8r nT9 wb D8 9l&9J9	My S. a1:	&8mTcon9 wqTbp9J	1
&wTr 9 9Acb r 9 qdmqpr C9J	2S2- S0 1292SJ4aJS2	&wTw. c8 9u wb r 9J	16S: 5 C. FO

NwpwbrTrp	Mwl l	Ron5r D1	Ron5r D2	Ron5r D-	: vgF9RonqF	Ronq5l &	UncT
VwnwOcmb	h1 2	h6Fh2	60F64	60F17	6- F0a	7Fa0	DDe
YTTr pecmb	102 1						qDl
YTTr pecmb	102 2						qDl
YTTr pecmb	106 1						qDl
YTTr pecmb	106 2						qDl
YTTpcmb	a7 1				116		G
YTTpcmb	a7 2				1Sh		G
Zcnq	66 2	277F42	- hhF1-	- hSFa0	- - hF14	7F2h	DDe
Zqqqoncmb	7S 1	hFh4	hF60	hF60	hF62	1F24	DDe
Zqqqoncmb	71 1	hF20	hFhh	hF40	hF4-	2F60	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9u mb er p9J	LB1264S0	n Dr pw75p9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 3 - S27	tCl Tpmb Cr T9u wb r 9J	N7
3 8r CT9l wb D8 9l&9J9	3 3 - S27	&8mT5C9Fwd75p9J	1
&wTr 9l 9Adb r 9qdCmpr o9J	2S2 :S0:1292SJaaJ4	&wTwFd8 9u wb r 9J	1613 3 - .o

Nwpwb r Tr p	Mwl l	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdT
q8mb cCmb	20:2	a1167.	aS1S7.SS	aS617.74	aS6 1.02	1.Sa	DDe
qCTb 5Cy	121:1	a S.S	a17.h1	aSS.aS	a16.47	2.7h	DDe
qpl r Ccl	0a:2	a22.7S	a27.44	a 2.SS	a20.0a	S.77	DDe
Bwpcmb	1 a:1	267h.00	26S7.1	2aS6.22	26S1. 0	.a4	DDe
Bwpcmb	1 0:1	2611.62	2a06.6a	241 .72	2a 4.S	4.10	DDe
Br py8mb	h:1	400.04	40 .2S	44h.4h	466.71	.2a	DDe
Bdl b mT%	2Sh:1				h6		E
Bdl b mT%	2Sh:2				h4		E
Bp5b cCr	71:1						dDl
3 wob cmb	1S7:1	a21.7a	aS2.h6	4h4.h0	aS6.ah	2.02	DDe
3 wob cmb	1S6:1	a12. 6	47h.22	477.26	4h6.61	2.0a	DDe
3 wob cmb	111:1	a2h.a	aSS.40	47h.40	aS6.4h	4.Sh	DDe
3 w8lcmb	4 :1	26140S.ha	2420h0.21	2 2aa0. 1	24a6S7.4h	a.h0	DDe
3 w8lcmb	44:1	24h06a.hh	24aa2 .Sa	2 2602.S0	2426a .01	.60	DDe
3 wpe5C	12:1						dDl
3 wpe5C	12:2						dDl
3 %85pcCr	a:1						dDl
3 %85pcCr	a:2						dDl
3 %p5b cmb	a2:2	4h2.2a	47h.4a	4ha.7	4h2.a1	S.6a	DDe
3 5ew8T	ah:2	4h2. 7	477.0h	477.h4	4hS.S4	S.41	DDe
3 5DDr p	6 :2	aS7h.SS	aS06.S	4h41.hS	aS a.64	1.62	DDe
&yl Dp5l cmb	1a6:1						dDl
&yl Dp5l cmb	1a6:2						dDl
Gpecmb	164:1						dDl
Gpecmb	164:2						dDl
Hwo58Ccmb	16S:1						dDl
Hwo58Ccmb	16S:2						dDl
K58b cmb	16a:1				1S		E
K58b cmb	16a:2				1S1		E
tCocmb	11a:1				hh		E
tCocmb	11a:2				h1		E
tp5C	a4:2	1 1S 0.2	12627 .a4	1207h0.7h	1274S6.22	1.77	DDe
tp5C	a6:2	12hhh2.16	1202Sh.61	12h16a.27	12707h.S2	1.11	DDe
tp5C	a0:2	126647.a0	1 1 a4.a0	1 Sha2. 6	12h6a1.7	2.S1	DDe
k pyDT5C	7 :1						dDl
Lr wo	2S6:1	261S. 4	2a2a.60	24 a.aS	2a2 .7	.46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr pwT5p9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 3 - S27	tCl Tpmb Cr T9u wb r 9J	N7
3 8r CT9l wb D8 9l&9J9	3 3 - S27	&c8mT5C9Fwd T5p9J	1
&wTr 9l 9Acb r 9qdCmpr o9J	2S2 :S0:1292SJaaJ4	&wTwFc8 9u wb r 9J	1613 3 - .o

Nwpwb r Tr p	Mwl l	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdT
Lr wo	2S0:1	26SS.41	2a2 .22	24S4. h	2aSh. 4	.h4	DDe
Lr wo	2S7:1	26S2. 2	2a 2.S7	24 0.ah	2a2 .hh	.27	DDe
LcP%cmb	6:1				7h		E
MwgCr l cmb	24:2	26S4h4.14	2aaa1S.17	2a140 .ah	2aa72a.h0	1.00	DDe
MwCgwCr l r	aa:2	a242.h7	aS4a.2S	a14 .SS	a14 .0	1.h2	DDe
M58yeor Cmb	h4:1	a20a.61	aSa .42	4072.a1	aS 0.17	4.hS	DDe
M58yeor Cmb	ha:1	a21h.70	aSSS.7h	4716.67	aS12.47	4.S	DDe
M58yeor Cmb	h6:1	a107.22	aS2 .h2	47 0. 4	aS1 .16	.4S	DDe
M58yeor Cmb	h0:1	a1a1.0h	4707.07	46h1.07	4hS0.4a	4.01	DDe
M58yeor Cmb	h7:1	a2ah.a7	aSSa.ha	472h.Sa	aS 1.a	4. S	DDe
u r 5oyb cmb	1aS:1						dDl
u r 5oyb cmb	1aS:2						dDl
u cdf r 8	6S:2	aS0.77	4h0.Sa	4h0.17	aSS.0S	1.24	DDe
N%5l D%5pml	1:2	1S174.0a	1S264.hh	h 47.66	hh 2.7S	a.11	DDe
N5Twl l cmb	h:2	127276.26	1272Sh.26	126aaS.S2	120671.7a	S.00	DDe
R%5ocmb	1S :1				h4		E
R%5ocmb	1S :2				h		E
l dwCocmb	4a:1				hh		E
l dwCocmb	4a:2				h1		E
l r 8 Ccmb	72:1	4h7.h4	407.Sa	4a0. 0	407.12	4. a	DDe
l r 8 Ccmb	00:2	401.h2	4hS.0	a11.S1	4h1.22	.h7	DDe
l r 8 Ccmb	07:2	aS4.40	a1S.h0	4h0.7h	aS4.44	1. S	DDe
l c8d5C	27:1	a 0.21	a11.22	4h0.7h	a1a.44	.77	DDe
l c8vr p	1S0:1	a17. 7	4h1.26	472.44	4h0. 6	.00	DDe
l c8vr p	1Sh:1	a24.46	4h6.6h	40h.Sh	aSS.S7	4.a0	DDe
l 5ocmb	2 :2	262h .4S	2616h4.S4	2aahSS.S	26S10a.7	1.44	DDe
l Tp5CTcmb	76:1	1 SSh. a	12a0 .26	12117.21	12a66.h4	.aa	DDe
l Tp5CTcmb	77:1	1 2S7.7	124hS.a	12S2 . 0	12a04.2a	4.0a	DDe
l m8Vmp	4:1	h06h.SS	70h . 0	0hS0.h7	772 .4a	1S.aa	DDe
Ar pecmb	1ah:1				1S2		E
Ar pecmb	1ah:2				1SS		E
A%w8cmb	2S :1	a17.02	a11.Sh	47h.hS	aS6.a0	2.ha	DDe
A%w8cmb	2Sa:1	a17.a1	a16.6a	4hS.71	aS7.66	.S4	DDe
AcC	117:1	a26.1S	aS0.12	4ha.02	aSh.6a	.S1	DDe
AcTwCcmb	40:1	a1hh.aS	4h06.06	4040.S2	4h04.42	4.aa	DDe
UpwCcmb	2 7:1	a20.14	a11.27	4h1.47	aSh.h0	.aS	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr pwT5p9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 3 - S27	tCl Tpmb Cr T9u wb r 9J	N7
3 8r CT9 wb D8 9l&9J9	3 3 - S27	&c8mT5C9Fwd T5p9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:1292SJaaJ4	&wTwFc8 9u wb r 9J	1613 3 - .o

NwpWb r Tr p	MwI l	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdT
- wOwocmb	a1:2	a S.4	a2S.S4	a26.2	a2a.a0	S.hh	DDe
YTTr pecmb	102:1						dDl
YTTr pecmb	102:2						dDl
YTTr pecmb	106:1						dDl
YTTr pecmb	106:2						dDl
YTTpcmb	7h:1				h7		E
YTTpcmb	7h:2				h4		E
ZcCd	66:2	4066. 6	40h4.S1	4064.h0	400a.11	S. 4	DDe
Zqpd5Ccmb	hS:1	a10.S4	aS .1a	402.20	4h0.4h	4.61	DDe
Zqpd5Ccmb	h1:1	4hS.71	40 .1h	4a2.1a	402.Sa	4.1S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l ers&ar:9	aswl sP
Lsb:psml Re:D :9	3 3 BS2-	D5w&um5e&Nsme:9	8 -
3 Re5&psml Re:D :9	3 3 BS2-	t Ra&n5:Fsq&ar:9	1
t s&:T:i Ame:cqduAeO.9	2S27 S0 12:2S9J- 9J6	t s&sFAe:Nsme:9	1623 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	cvg.:3 n5q.	3 n5qRpt	U5A&w
cRmA5Aum	20 2	7.S7	1S.S-	1- .46	1S.J2	07.7-	l l b
c5&mn5y	121 1	S.2h	S.1-	S.22	S.27	24.72	l l b
crwe5Aq	0J 2	S.S7	S.11	S.16	S.1S	64.1-	l l b
BsrAum	17J 1	S.4-	S.1h	S.1S	S.26	00.- 6	l l b
BsrAum	170 1	S.4S	S.21	S.17	S.2J	J6.6S	l l b
BeryPAum	h 1	S.14	S.11	S.S6	S.1S	7- .71	l l b
BAumu&%	2Sh 1				1S-		E
BAumu&%	2Sh 2				1S7		E
BrnmA5e	- 1 1						ql w
3 sOmAum	1S- 1	S.2J	S.1S	S.S4	S.17	- 7.66	l l b
3 sOmAum	1S6 1	4.1J	J.7h	J.hh	J.10		l l b
3 sOmAum	111 1	S.S0	S.S4	S.S2	S.S4	61.S1	l l b
3 sRqAum	47 1	7J.11	24.- 0	17.7-	24.46	44.46	l l b
3 sRqAum	44 1	02.11	60.27	41.2-	6S.21	20.J7	l l b
3 srbn5	12 1						ql w
3 srbn5	12 2						ql w
3 %nrA5e	7J 1						ql w
3 %nrA5e	7J 2						ql w
3 %nmAum	J2 2	S.S6	S.S4	S.1J	S.Sh	02.1h	l l b
3 nbsR&	Jh 2	S.S1	S.S0	S.12	S.S0	00.17	l l b
3 nl l er	67 2	S.J1	1.S0	1.6S	1.S6	J1.1S	l l b
t ywl rnwAum	1J6 1						ql w
t ywl rnwAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
GsOnP5Aum	16S 1						ql w
GsOnP5Aum	16S 2						ql w
HnPmAum	16J 1				1S0		E
HnPmAum	16J 2				1S7		E
D5OAum	11J 1				1S6		E
D5OAum	11J 2				h-		E
Dn5	J4 2	J.24	27.06	44.2-	24.47	0h.hJ	l l b
Dn5	J6 2	J.- 1	24.1h	7h.J1	27.10	02.- 1	l l b
Dn5	J0 2	J.0S	21.41	70.hh	21.0S	04.4S	l l b
Kryl &n5	- 7 1						ql w
LesO	2S6 1	S.J-	S.72	S.10	S.76	J- .2-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l ers&ar:9	aswl sP
Lsb:psml Re:D :9	3 3 BS2-	D5w&um5e&Nsme:9	8-
3 Re5&psml Re:D :9	3 3 BS2-	t Ra&n5:Fsq&ar:9	1
t s&e:T:i Ame:c qduAeO.9	2S27 S0 12:2S9J- 9J6	t s&sFAe:Nsme:9	1623 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	cvg.:3 n5q.	3 n5qRpt	U5A&w
LesO	2S0 1	S.6S	S.7J	S.17	S.76	64.h4	I I b
LesO	2S- 1	S.J-	S.71	S.1J	S.7J	61.h4	I I b
LA%Aum	6 1				h7		E
Msg5ewAum	24 2	1S.4h	7J.- 1	J- .JS	74.h7	6- .0J	I I b
Ms5gs5ewe	JJ 2	S.27	S.- -	1.6h	S.h7	0- .4-	I I b
MnPybOe5um	h4 1	S.h4	S.- 6	S.7h	S.07	4S.77	I I b
MnPybOe5um	hJ 1	1.S7	S.6h	S.4S	S.01	44.2S	I I b
MnPybOe5um	h6 1	1.S7	S.- h	S.44	S.0h	7h.41	I I b
MnPybOe5um	h0 1	1.16	S.- S	S.4h	S.- 2	41.S1	I I b
MnPybOe5um	h- 1	1.S1	S.0S	S.4h	S.07	7J.h7	I I b
NenOymAum	1JS 1						ql w
NenOymAum	1JS 2						ql w
NAqkeP	6S 2	S.SJ	S.SJ	S.12	S.S0	J4.2-	I I b
8%nwl %nruw	71 2	h4.14	- 6.1h	0S.70	- 7.J0		I I b
8n&swwAum	7h 2	7- .27	J6.0-	62.h4	J2.6J	24.47	I I b
R%nOAum	1S7 1				1S6		E
R%nOAum	1S7 2				1S2		E
pqs5OAum	4J 1				1SJ		E
pqs5OAum	4J 2				h4		E
pere5Aum	- 2 1	S.4J	S.7J	S.1h	S.1S		I I b
pere5Aum	00 2	S.0-	S.7-	S.7-	S.S1	0616.77	I I b
pere5Aum	0- 2	S.77	S.77	S.00	S.40	J7.0J	I I b
pAqn5	2- 1	S.20	S.1-	S.S0	S.17	17h.67	I I b
pAer	1S0 1	S.S7	S.S2	S.S2	S.S2	24.74	I I b
pAer	1Sh 1	S.S2	S.S7	S.S2	S.S2	1h.h0	I I b
pnOAum	27 2	6J.22	h2.16	116.01	h1.70	2- .1h	I I b
p&n5&Aum	- 6 1	1.J7	1.7h	S.J7	1.1J	40.SJ	I I b
p&n5&Aum	- - 1	1.JJ	1.47	S.47	1.14	J7.00	I I b
pulur	74 1	- - 0.0h	6hh.7J	1S27.- 1	- 0S.72		I I b
i erbAum	1Jh 1				1S0		E
i erbAum	1Jh 2				1S7		E
i %sPAum	2S7 1	S.21	S.2S	S.17	S.1-	2J.44	I I b
i %sPAum	2SJ 1	S.27	S.1h	S.14	S.1h	26.11	I I b
i A5	11- 1	S.Sh	S.S1	S.S4	S.S2	77- .h-	I I b
i A&5Aum	40 1	S.- 2	S.J-	S.SJ	S.4h	- 1.27	I I b
Urs5Aum	27- 1	S.S-	S.S4	S.S2	S.SJ	07.SJ	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l ers&ar:9	aswl sP
Lsb:psml Re:D :9	3 3 BS2-	D5w&um5e&Nsme:9	8 -
3 Re5&psml Re:D :9	3 3 BS2-	t Ra&n5:Fsqa&ar:9	1
t sa&e:T:i Ame:c qduAeO.9	2S27 S0 12:2S9J- 9J6	t sa&sFAe:Nsme:9	1623 3 BC.O

8 srsmea&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&w
Vs5sOAum	J1 2	S.S2	S.1S	S.1J	S.Sh	00.Sh	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	- h 1				1SJ		E
Y&&Aum	- h 2				h0		E
ZA5q	66 2	S.26	S.01	1.7S	S.06	6- .J4	l l b
ZAqn5Aum	hS 1	S.S6	S.SJ	S.S2	S.S4	J6.42	l l b
ZAqn5Aum	h1 1	S.SJ	S.S7	S.SS	S.S7	hh.- 4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&NC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb ACAmb	2072	1SS	1S6	1S2	1S-	-FS6	ql w
c C&b nC9	12171	S	N	10	N	1SSFS2	ql w
cpwr CAq	0y72	S	-	2	2	J1F6y	ql w
BspAmb	1-y71	42	42	yS	44	1SFN2	ql w
BspAmb	1-071	60	yN	yS	yN	14F2J	ql w
Br p9PAmb	J71	2J	2-	-1	2N	16F-J	ql w
BAmb m&a	2SJ71	6-6N4yy	6-N6SS6	64261-1	6-J-y-1	SF46	ql w
BAmb m&a	2SJ72	-112-1S	-11220S	-Sy611-	-SJ-y64	1FSy	ql w
Bpmb AOr	N171	4y4-	44J2	4-SJ	444N	2F06	ql w
. sOb Amb	1SN71	21	10	10	1N	1-F-S	ql w
. sOb Amb	1S671	42J2	-Ny1	4S26	4Sy6	yF4J	ql w
. sOb Amb	11171	41J	-0N	4S-	4SS	yF21	ql w
. sPqAmb	4-71	246	2yy	26S	2y4	2F04	ql w
. sPqAmb	4471	2N4NS	2N2-y	2N64N	2N4y4	SF0-	ql w
. spenC	1271	2-6-N21	2-y2J21	2-111J-	2-4264y	1F1J	ql w
. spenC	1272	2N60S	-S6y0	2J440	2JyJ1	-F-N	ql w
. hPmpAOr	-y71	J6S-4	J2621	NJJ2N	J2N61	-F-S	ql w
. hPmpAOr	-y72	0SS	00y	642	0S6	JF40	ql w
. hpmb Amb	y272	1S-S	1SJ0	12-S	111J	JF1S	ql w
. nesP&	yJ72	6-	40	4-	y1	2SFJ6	ql w
. nI l r p	6-72	yyS	410	4J-	4N0	1-F0y	ql w
t 9wl pnwAmb	1y671	10	10	N	14	-4F60	ql w
t 9wl pnwAmb	1y672	-	S	-	2	N6F6S	ql w
EpeAmb	16471	yS	yS	60	y6	10F-2	ql w
EpeAmb	16472	0	20	20	2S	y0F0-	ql w
GsOnFACAmb	16S71	110	110	1SS	111	NF66	ql w
GsOnFACAmb	16S72	12S	14-	120	1-S	JF2y	ql w
HnP Amb	16y71	JSN2S01	JS6Ny0N	NJ0J242	JS4-2J0	SF62	ql w
HnP Amb	16y72	-J60424	-JJJS66	-J0y164	-JNSyy2	SF41	ql w
DOCAmb	11y71	666060S	661SNyJ	60S4-40	666SJyJ	SF01	ql w
DOCAmb	11y72	J616--	Jy2-yS	J6-22-	JyJS6J	SF61	ql w
DpnC	y472	--J	4S6	-2N	-y0	11F00	ql w
DpnC	y672	202N	2NSS	2010	204N	1F6y	ql w
DpnC	y072	N-	122	1y6	12S	-SFS-	ql w
Kp9l &aC	N-71	26S	2S6	22y	2-S	11FN4	ql w
LrsO	2S671	6y6	yJ4	0S6	6y2	NFy4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	y--	yJ4	y44	yy0	yFN4	ql w
LrsO	2SN71	2622	2y2N	26--	2yJy	2F24	ql w
LA&nAmb	671	26--460	2yNN00S	2yN6N6S	26S-S-2	1FS1	ql w
RsgOr wAmb	2472	yS	42	1--	0y	60FyJ	ql w
RsOgsOr wr	yy72	40	y-	-S	4-	20F0-	ql w
RnP9eOr Omb	J471	142	60	N-	J0	4SFyS	ql w
RnP9eOr Omb	Jy71	--	10	N	1J	6yF40	ql w
RnP9eOr Omb	J671	yN	yS	12y	0N	y2FNy	ql w
RnP9eOr Omb	J071	S	42	S	14	10-F21	ql w
RnP9eOr Omb	JN71	2y	--	60	42	y2FJ2	ql w
urnO9b Amb	1yS71	0	S	2S	J	114Fyy	ql w
urnO9b Amb	1yS72	S	0	S	2	10-F21	ql w
uAqkr P	6S72	yS	-0	y-	40	1NFNJ	ql w
8hnwl hnpmw	-172	-SN	2N-	160	2y-	2JFJ1	ql w
8n&swwAmb	-J72	1S2S4	1S2N0	1S2J6	1S262	SF4J	ql w
5hnOAmb	1S-71	66y660S	6644-1-	60-0-01	660J4y1	SF06	ql w
5hnOAmb	1S-72	-1-20y0	-114SN2	-SJ0104	-114601	SFy0	ql w
3qsCOAmb	4y71	4412S22	420N04N	4-0224N	4-y4--J	1Fy0	ql w
3qsCOAmb	4y72	14JyJ0	14JS6N	140J26	14NN6-	SFy0	ql w
3rP CAmb	N271	71S	-1	--	1N	1-4FJJ	ql w
3rP CAmb	0072	S	-	S	1	10-F21	ql w
3rP CAmb	0N72	10	12	14	14	10Fy6	ql w
3AAqnC	2N71	10N0S6	104y64	106S4J	10644S	1F1J	ql w
3AOr p	1S071	yN	yN	110	0N	4-F S	ql w
3AOr p	1SJ71	2y	yS	42	-J	-2F0-	ql w
3nOAmb	2-72	2SJ24	2S1y6	1JJN1	2S-y4	2F46	ql w
3&nC&Amb	N671	4yN	4SN	4N-	4yS	NF4J	ql w
3&nC&Amb	NN71	JN-	62y	0yN	0NJ	22FJ6	ql w
3mPmp	-471	-1401-	-1S4SN	-112N0	-121-6	SF0-	ql w
irpeAmb	1yJ71	J1N-6Sy	JS01N1N	J4y1621	J2-y6N1	2F11	ql w
irpeAmb	1yJ72	-N6J010	-J06S--	-J1241J	-J1J-JS	1F-0	ql w
ihsPAmb	2S-71	yS	yS	--	44	21F66	ql w
ihsPAmb	2Sy71	1yS	2SS	2SN	1N6	16FJy	ql w
iAC	11N71	1S60	110y	12SN	11yS	6F44	ql w
iA&sCAmb	4071	10y	2SN	142	10y	1JFSy	ql w
MpsCAmb	2-N71	2y	2y	N	1J	4JFyS	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D w&pmb Cr &usb r :	8N
. FA C&3sb l P D :	3S	t A r&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sU A P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	y172	1-	10	2-	1N	2NF64	ql w
Y&&peAmb	10271	yS	42	N-	yN	-0FNS	ql w
Y&&peAmb	10272	2N	-J	44	-0	22FJ1	ql w
Y&&peAmb	10671	140y	1460	14SN	14yS	2Fy1	ql w
Y&&peAmb	10672	1S24-	1S2y4	J01y	1SS01	-FS6	ql w
Y&&pAmb	NJ71	122066J4	11JyS-y2	1216-206	121-S1S0	1F-0	ql w
Y&&pAmb	NJ72	12066J4	126Jyy-	12N1600	120yJ0y	SF4N	ql w
ZACq	6672	120	1-S	1--	1-S	2Fy0	ql w
ZAqnCAmb	JS71	40y	4--	4yS	4y-	4F6-	ql w
ZAqnCAmb	J171	1--	12y	--	J0	y0FS0	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	922	901	911	9- C	- F41	cps
Antimony	12171	960S	9S- 0	9162	9289	- F61	cps
Arsenic	0C72	1C6	1C4	126	14C	11FC4	cps
Barium	1- C71	1S- C4	9912	90- 0	1SSS1	- F18	cps
Barium	1- 071	10480	2SS4S	18- 96	18641	6F94	cps
Beryllium	971	1466	1C49	1C16	1C1S	2F0C	cps
Bismuth	2S971	6- C6669	6- C0C1S	6- 81218	6- 6C1- 2	SF22	cps
Bismuth	2S972	- S612C0	- 14- 868	- S8SS6S	- S9CS62	1F4S	cps
Bromine	8171	4C84	42C9	42- 4	4- C9	4F48	cps
. admium	1S871	1SS	1- 8	121	119	1CF0-	cps
. admium	1S671	- 0- 4	4426	- 8C9	4SS6	9F2S	cps
. admium	11171	14- -	1C6-	1C9-	1C- S	CFC8	cps
. alcium	4- 71	0S61	02- 8	0208	019-	1F61	cps
. alcium	4471	14S80C	14- - S4	1428S2	142- 20	SF9S	cps
. arbon	1271	2- 46S90	2- S9688	228904-	2- 1C106	1F2-	cps
. arbon	1272	29S46	29898	29- 88	29444	1F46	cps
. hlorine	- C71	98- 41	9- 6- C	9- - 42	9C1S6	2F9C	cps
. hlorine	- C72	010	6CS	08-	010	9F- S	cps
. hromium	C272	4S64	4241	4S00	4120	2F- 8	cps
. obalt	C972	204S	28S0	2680	204C	2F19	cps
. opper	6- 72	4061	4604	4604	40S-	1FS6	cps
Dysprosium	1C671	S	S	10	6	10- F21	cps
Dysprosium	1C672	S	-	1S	4	114F6S	cps
Erbium	16471	0C	2C	60	C6	48F22	cps
Erbium	16472	10	- S	20	24	28F- 8	cps
Gadolinium	16S71	110	0C	60	86	- 1F11	cps
Gadolinium	16S72	00	1SS	12-	1SS	2- F- -	cps
Holmium	16C71	9S2216C	896C622	9SS08- 9	8998C42	SF- -	cps
Holmium	16C72	- 92946C	4SS8C09	- 90CC89	- 901211	1FSS	cps
Indium	11C71	66206- 2	6C42226	6C91146	6C80SS2	SF6C	cps
Indium	11C72	96610-	96C9C4	969844	960- 2-	SF2-	cps
Iron	C472	- 928	- 0C1	- 92-	- 860	2F61	cps
Iron	C672	6C12S	64189	64220	64C12	SFB2	cps
Iron	C072	1CC6	1011	1602	1646	4F92	cps
Krypton	8- 71	2CS	2CC	2- S	24C	CF4S	cps
Lead	2S671	CSC0	C1- 4	CS18	CS0S	1F10	cps

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	4C09	424S	4- 9C	44SC	- F8C	cps
Lead	2S871	2SS9C	2S404	196C6	2SS0C	2FS4	cps
Lithium	671	2C966SC	264C22C	2629011	262- 840	SF9C	cps
Ragnesium	2472	C60- 0	C0899	C09CS	C0C29	1F19	cps
Ranganese	CC72	81S	8S-	0S0	00-	0F48	cps
Rolybdenum	9471	99C4	1S146	1S496	1S198	2F0S	cps
Rolybdenum	9C71	12C98	120- 9	121- 9	12492	2FC1	cps
Rolybdenum	9671	1- 949	14224	1- 682	1- 9C2	1F94	cps
Rolybdenum	9071	0686	0469	00S2	0619	1F01	cps
Rolybdenum	9871	2S98-	19C22	2S2C0	2S2C4	- F61	cps
Neodymium	1CS71	1-	1-	2S	16	24F06	cps
Neodymium	1CS72	-	-	-	-	SFSS	cps
Nickel	6S72	8- 0	88S	89-	80S	- F41	cps
Phosphorus	- 172	20C	2- -	- 42	28-	19F29	cps
Potassium	- 972	4C94S	4CCC6	4- 906	4C1C8	2F- 1	cps
5hodium	1S- 71	66SC- 0C	66486S9	661- 044	6622C06	SF- C	cps
5hodium	1S- 72	- 186C4-	- 144484	- 1S9846	- 1469C8	1F22	cps
3candium	4C71	4- 8- 924	42- 118C	42C8C66	429122C	1F9S	cps
3candium	4C72	146- 88	149189	144149	146C0C	1F02	cps
3elenium	8271	C16	4- S	49C	48S	9F- C	cps
3elenium	0072	1S	2S	1-	14	- CF26	cps
3elenium	0872	C-	0-	C6	61	10F08	cps
3ilicon	2871	211182	211- 00	21SS69	21S806	SF- -	cps
3ilver	1S071	6- 4-	604-	6000	6621	- F64	cps
3ilver	1S971	C926	6- C2	6S- C	61S4	- F62	cps
3odium	2- 72	1222S2	1214C-	121- 20	121661	SF- 9	cps
3trontium	8671	18SS	10C8	1060	100C	1F24	cps
3trontium	8871	1- C- 2	1292-	12C2-	12992	- F91	cps
3ulfur	- 471	- 1- 0C1	- 1CC60	- 10- 44	- 1CCC4	SFC0	cps
Terbium	1C971	9160021	9- S0921	924606S	924S8S1	SF06	cps
Terbium	1C972	- 91- 9C2	- 944299	- 892- 4C	- 91686C	SF60	cps
Thallium	2S- 71	C46S	C1S1	CS- 4	C198	4F4S	cps
Thallium	2SC71	1289S	1- S6C	1- 2C0	1- S01	1F41	cps
Tin	11871	19048	1992-	2S- 24	19998	1F48	cps
Titanium	4071	- 0- 4	- C84	- 0S1	- 60-	2F1C	cps
Mranium	2- 871	10988	1929S	10902	18410	4F11	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	C172	C614	C4C1	C- - 4	C460	2FC0	cps
Ytterbium	10271	60	0C	C8	60	12FCS	cps
Ytterbium	10272	22	6	28	19	62F4-	cps
Ytterbium	10671	1642	148-	122C	14CS	14FC1	cps
Ytterbium	10672	1S180	90S4	9- S-	90- 2	4FCC	cps
Yttrium	8971	118614C6	11891S44	1100- SS4	118418- C	SFC2	cps
Yttrium	8972	1288640	1206699	1280C1-	1284280	SFC1	cps
Zinc	6672	0- S	01S	08-	041	CF12	cps
Zirconium	9S71	06- 6	809C	0- 20	0919	9F00	cps
Zirconium	9171	10SS	1060	1942	18S-	6F92	cps

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb A C A mb	2072	4-J2-	4-49-	4-0J2	4-JN9	SF-	ql w
c C&b nCy	12171	249944	2444N-	24J--6	246JNN	1F19	ql w
cpwr CAq	0J72	692S	6NN9	6N19	6N06	SF0J	ql w
Bsp A mb	1-J71	2666N4	20SJN9	2690-9	269SS4	SF06	ql w
Bsp A mb	1-071	4004J6	40904N	400S0-	40NS92	SF-S	ql w
Br pyP A mb	971	021-J	02S-S	02-N0	021N4	SF2J	ql w
BA b m&a	2S971	JJ2NNJN	6-4S-N9	6200299	6S4NN49	0F46	ql w
BA b m&a	2S972	-S11N61	294S9-9	291046-	29J60J4	1F66	ql w
Bpmb A Or	N171	4210	4192	4SN4	416J	1F0S	ql w
. sOb A mb	1SN71	J6SJ	JJ22	J-S9	J409	2F09	ql w
. sOb A mb	1S671	1S262	11--N	1S06-	1S0NN	4F99	ql w
. sOb A mb	11171	6-NSJ	6--S9	6J2SJ	641S0	1FJ-	ql w
. sP q A mb	4-71	N219-	N16J6	N19N-	N1944	SF-	ql w
. sP q A mb	4471	1--S49S	1-2-6S1	1-J-9NN	1--6S26	1F19	ql w
. spenC	1271	24949-S	2J64494	2J2J262	2J2N229	1F-N	ql w
. spenC	1272	-14S9	-12SS	-S92J	-110N	SF0N	ql w
. hP mp A Or	-J71	1-JS94	1-0SJ-	1-06NJ	1-661S	SF99	ql w
. hP mp A Or	-J72	11--	1142	NJN	1S4J	1JF44	ql w
. hpmb A mb	J272	064-S	0JN60	04416	0JJ01	1F-N	ql w
. nesR&	J972	1-6NN4	1--190	1-4002	1-49J1	1F-0	ql w
. nI l r p	6-72	11S-9-4	1S9JJS1	1SN0906	1S9JNS-	SF0-	ql w
t ywl pnw A mb	1J671	2J	10	10	19	24F0-	ql w
t ywl pnw A mb	1J672	10	-	1S	1S	66F0S	ql w
Epe A mb	16471	60	N-	--	61	41F60	ql w
Epe A mb	16472	0	20	-S	21	J9F00	ql w
GsOnF A C A mb	16S71	0J	110	42	0N	4NF-1	ql w
GsOnF A C A mb	16S72	110	12-	1S-	114	NF9S	ql w
HnP b A mb	16J71	NS-SJ02	N624-2-	NNJ610-	NJS-6N9	JFS1	ql w
HnP b A mb	16J72	-916J-J	-N6N1JN	-N-NSN6	-N0426S	1FS2	ql w
DDO A mb	11J71	JNS1JSJ	6421416	6-91J01	62S4N-1	JF6-	ql w
DDO A mb	11J72	9--246	91NN64	9SJ-26	919146	1FJ2	ql w
DpnC	J472	10JS1J	10014S	10419-	10J4JS	SFN0	ql w
DpnC	J672	--204JJ	--J-SJ9	--J-N16	--44000	SF4J	ql w
DpnC	J072	N149-	0N6SS	091J-	0904N	1F9-	ql w
Kpyl &aC	N-71	244	242	249	24J	1F-J	ql w
LrsO	2S671	116J004	11416NS	1161621	11J6-JN	1F11	ql w

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A n&nC Usq&ap:	1
t s& T i A r cqdm r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	999016	1S1S1JN	1SS-J0N	1SS44N4	SFJ-	ql w
LrsO	2SN71	4N0JS41	4N122S-	4NN41-6	4NJ0120	SFN1	ql w
LA&nAmb	671	2-JS24S	2J4J46S	2J-4422	24060S0	4F4-	ql w
RsgOr wAmb	2472	61N9N-	6144N4	6S04J2	61-64S	SF9J	ql w
RsOgsOr wr	JJ72	-N4J42	-00N66	-009NS	-NS129	1FS1	ql w
RnPyeOr Omb	9471	94J40S	9J206J	94420J	940JS-	SF49	ql w
RnPyeOr Omb	9J71	1-01-SS	141J01-	1421406	14S2N-S	1F96	ql w
RnPyeOr Omb	9671	1J-9-NS	1J49S4J	1JJ169S	1J460SJ	SF42	ql w
RnPyeOr Omb	9071	NJ09N-	NJ-124	NJ4262	NJJ12-	SF-S	ql w
RnPyeOr Omb	9N71	226NS-4	22460N0	2240--9	22J4SJ-	SFJ4	ql w
urnOyb Amb	1JS71	2S	2S	--	24	-1F49	ql w
urnOyb Amb	1JS72	0	-	-	4	4-F4S	ql w
uAqkr P	6S72	-NNS6	-0N40	-0904	-N2S9	1F-6	ql w
8hnwl hnpmw	-172	2-J9	2-N4	24J9	24SS	2F10	ql w
8n&swwAmb	-972	194209	1916S2	194S92	19--2J	SF00	ql w
5hnOAmb	1S-71	JNSN1JN	6J42166	644S-1S	626-J4J	6F-J	ql w
5hnOAmb	1S-72	-12NN-6	-S-S94-	294-2J4	-S-4-4J	-FS6	ql w
3qsCOAmb	4J71	-014-N4	41J-JN0	41-4121	4SSS690	6F2S	ql w
3qsCOAmb	4J72	1-9409	1-9126	1414N6	14SS-S	SF91	ql w
3r P CAmb	N271	JS0N	J22-	4N0N	JS6S	-F42	ql w
3r P CAmb	0072	19-	1-0	12-	1J1	24F6S	ql w
3r P CAmb	0N72	J-N	J6-	J9S	J64	4F61	ql w
3 A&qnC	2N71	-1J4JSS	-S0J44S	-1-266S	-12SN60	1F-1	ql w
3 A r p	1S071	-4SJ21	-4-6-S	-44461	-42N01	SF61	ql w
3 A r p	1S971	-2J69J	-2S600	-19JJ-	-2190J	1FS2	ql w
3nOAmb	2-72	1149690	1129N20	1129169	11-62-1	1FS-	ql w
3&nC&Amb	N671	1N09-42	1N96N9J	1N0-140	1NN-12N	SF6J	ql w
3&nC&Amb	NN71	161SNN44	164J114N	1J9J499N	1610166-	1FJ0	ql w
3mPmp	-471	-4-J-0	--9699	-4S-S4	-411NS	SF6S	ql w
irpeAmb	1J971	N24NS90	912SJ22	9SS9116	N092J0N	JF4S	ql w
irpeAmb	1J972	-NJJ021	-NS0S--	-09JJJJ	-N194-6	SFN4	ql w
ihsPAmb	2S-71	2NS0N-	200-91	2006S9	20NJ94	SF6N	ql w
ihsPAmb	2SJ71	606-6-	64014-	66-92N	66240N	2F21	ql w
iAC	11N71	2S9JJ0	2S002N	2S64-1	2S09SJ	SF06	ql w
iA&sCAmb	4071	-0S-42	-022J6	-0-1S1	-019SS	SF-N	ql w
MpsCAmb	2-N71	9N6S21	90NS-4	9N4462	9N2N-9	SF4-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sU A P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	J172	J62N0	J04N1	J6622	J6090	1FSN	ql w
Y&&peAmb	10271	60	0J	JN	60	12FJS	ql w
Y&&peAmb	10272	--	2N	2N	-S	1SFN1	ql w
Y&&peAmb	10671	2-J9	21JS	2J0J	2-61	9FSS	ql w
Y&&peAmb	10672	90N2	966J	94-0	962N	1FN2	ql w
Y&&pAmb	N971	1S16JJ02	110JSNN-	114J49NJ	1112-N1-	0FJN	ql w
Y&&pAmb	N972	126-J-1	1221600	119N4SN	1220N02	2F69	ql w
ZACq	6672	1-6J24	1-J0NS	1-4S92	1-J46J	SF92	ql w
ZAqnCAmb	9S71	429024	4-N46-	4--9N2	4-4SJ6	1FS1	ql w
ZAqnCAmb	9171	90S21	96J2J	90-1J	969J-	SF41	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S4	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	1S-4S5	1S165-	1S15-1	1S2190	1.S-	cpw
Antimony	12171	5J9J15	61614S	6S956S	6S5102	2.26	cpw
Arwenic	0572	16-92	15J61	15092	16S15	2.S5	cpw
Bsrium	1-571	644552	606JS1	66J992	66-44J	2.54	cpw
Bsrium	1-071	1154S15	12SS-11	11002-2	11001J6	1.90	cpw
BeryPium	971	160590	10---J	1012S5	10S01-	1.0S	cpw
Biwmuth	2S971	61-5229	54-2-S0	5949-99	5J-J909	6.24	cpw
Biwmuth	2S972	2J0J612	2J0S215	2941412	2J96046	1.-4	cpw
Bromine	J171	-J42	4SS1	4106	4SS6	4.16	cpw
Csdmium	1SJ71	1-265	1-10-	1-S9J	1-109	S.6-	cpw
Csdmium	1S671	2S0J-	21551	2S925	21SJ6	1.94	cpw
Csdmium	11171	15S44S	1509S-	15J16S	1555S1	2.J2	cpw
CsPium	4-71	19SJ-0	190204	1956JS	194590	1.02	cpw
CsPium	4471	-S5124-	-1-J26J	-211090	-1--069	2.56	cpw
Csrbon	1271	24J660-	24JS006	240056-	24J1601	S.19	cpw
Csrbon	1272	-1125	-1S5S	-S250	-SJ11	1.56	cpw
ChPrine	-571	129JJS	1-250J	1-1001	1-141S	1.S5	cpw
ChPrine	-572	1S10	JSJ	905	9--	11.J1	cpw
Chromium	5272	1JSS56	1040-4	102-56	105016	2.24	cpw
CobsPt	5972	-2J5-2	-2S946	-21-14	-2-590	1.-2	cpw
Copper	6-72	2J56S05	26966J9	20129-J	20552-4	-.1J	cpw
Dywprowium	15671	60	J-	1SJ	J6	24.-5	cpw
Dywprowium	15672	10	2-	4S	20	45.S0	cpw
Erbium	16471	05	60	5J	60	12.5S	cpw
Erbium	16472	20	10	--	26	-2.J1	cpw
GsdoPnium	16S71	125	1SS	J-	1S-	2S.4S	cpw
GsdoPnium	16S72	1J-	140	15-	161	12.12	cpw
HoPnium	16571	J0S94JS	064-24S	J4400J6	J266J-5	6.02	cpw
HoPnium	16572	-0J945S	-09052-	-J4-S-0	-J1SSS-	S.06	cpw
Indium	11571	61J5961	56S6199	6SJ0462	5959J04	5.21	cpw
Indium	11572	JJ6-51	JJ0210	JJSJ92	JJ4J2S	S.-9	cpw
Iron	5472	424014	416S64	416554	419111	1.16	cpw
Iron	5672	092-4J6	0JS01-2	0J24120	0J515J1	S.JS	cpw
Iron	5072	192545	1J941S	1J54-6	1J91-S	1.JJ	cpw
Krypton	J-71	241	2-6	2-0	2-J	1.S9	cpw
Lesd	2S671	-SJ12J9	-11J469	-1-J241	-112666	S.9-	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	25J4001	2022661	2019014	2605015	2.94	cpw
Lesd	2SJ71	11905250	12469-6J	12-J-6S2	12206S06	2.15	cpw
Lithium	671	245591S	215S4-9	2-5-91-	2-2SSJ0	6.0S	cpw
Msgnewium	2472	15SJ4J5	1499905	152-5S9	151S650	S.09	cpw
Msngsnewe	5572	9110-1	JJ659S	J91922	J9604J	1.4J	cpw
MoPybdenum	9471	2--1-1S	2-J96-1	2-6-426	2-61456	1.24	cpw
MoPybdenum	9571	--514SJ	-46-425	-45J0S5	-42451-	1.J5	cpw
MoPybdenum	9671	-64619S	-09JS-5	-009S4J	-041S91	2.21	cpw
MoPybdenum	9071	2S6SS2S	215221-	2S90-9-	21S-2SJ	2.2S	cpw
MoPybdenum	9J71	5---060	5425S05	54S494J	5-J09-S	S.J9	cpw
Neodymium	15S71	J0	--	9-	01	46.25	cpw
Neodymium	15S72	0	1S	1S	9	21.6-	cpw
NickePl	6S72	9SS09	JJ45-	9S150	J956-	1.S0	cpw
8howphoruw	-172	514-	499-	5-S9	514J	-.SJ	cpw
8otswwium	-972	45SSS0	4-514J	4-5S19	44SS5J	1.96	cpw
Rhodium	1S-71	6-S549S	55240J9	59J641J	59-JJ99	6.61	cpw
Rhodium	1S-72	29S-6JS	2J94J24	291J05S	29S5051	S.42	cpw
3csndium	4571	4S-50-0	-549659	-J4J011	-J11-69	6.4-	cpw
3csndium	4572	1-4041	1-56-0	1--15-	1-451S	S.94	cpw
3ePenium	J271	11909	12S0S	121-5	12S61	S.65	cpw
3ePenium	0072	-4-	--S	4SS	-5J	1S.-9	cpw
3ePenium	0J72	1216	1204	1212	12-4	2.J1	cpw
3iPcon	2J71	6J01211	011S-40	0S0J222	0S19926	1.J5	cpw
3iPer	1S071	J1J252	J2S-J2	J-5619	J24051	1.15	cpw
3iPer	1S971	06-S24	094J-S	099S-J	0J56-1	2.51	cpw
3odium	2-72	265S65S	26-5055	26S2-99	26296S2	S.94	cpw
3trontium	J671	4522S6-	40S5SS5	4614-11	461-09-	1.9J	cpw
3trontium	JJ71	-0096S6J	-95264S5	4S2055-5	-9199--6	-.24	cpw
3uPur	-471	-6JJ52	-65J44	-654S1	-66699	S.51	cpw
Terbium	15971	J9156JS	09S956-	J-465S1	J-9S5J1	6.S1	cpw
Terbium	15972	-00J-2J	-049J42	-604600	-0-42J2	1.4-	cpw
ThsPum	2S-71	6J05S4	690-J9	69065J	6941J4	S.J-	cpw
ThsPum	2S571	16J0922	1005-0-	106SS4-	104111-	2.6J	cpw
Tin	11J71	409922	515962	51545S	5S-00J	4.1S	cpw
Titsnium	4071	J045SS	J95129	9SJ6S0	J92045	1.92	cpw
Ursnium	2-J71	2512J4-	2559522	25J444S	255226J	1.42	cpw

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LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1-6915	1-S69J	1-26-4	1--416	2.-J	cpw
Ytterbium	10271	J-	5S	J-	02	26.65	cpw
Ytterbium	10272	61	-9	J-	61	-6.-0	cpw
Ytterbium	10671	41J4	4SJ4	4406	424J	4.09	cpw
Ytterbium	10672	994J	9065	9926	9JJS	1.S1	cpw
Yttrium	J971	11190129	9J50S05	1SJ9JJ29	1S651S11	6.61	cpw
Yttrium	J972	11J-S54	1106141	110S491	1106562	S.5-	cpw
Zinc	6672	-21-JJ	-149S0	-14J-1	-10S42	1.19	cpw
Zirconium	9S71	1S-22J5	1S0195S	1S02094	1S59S1S	2.19	cpw
Zirconium	9171	2-S9J0	2-6509	24S469	2-6S12	2.S2	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
q8be c dbe	20 2	1a4716	1a7uS4	1a16u6	1a726a	SU02	dDI
q. Tde C. y	121 1	11uSu2S	11uS7S4	11u0476	11u2u-7	SU74	dDI
qII p. dd	0- 2	711S6	7S70-	7S162	7S-4u	1U62	dDI
BwIdbe	17- 1	17S2a4-	17S7144	17SS06u	17S22u6	SU1S	dDI
BwIdbe	170 1	27-10Su	27-716S	2726S1S	2747626	SU6-	dDI
Bply8dbe	a 1	72212u	72S4u1	72SS1a	72Su06	SU7-	dDI
Bdde bTh	2Sa 1	612S141	6Su64u-	620u0S6	6161000	1U60	dDI
Bdde bTh	2Sa 2	2u7Su01	2u6u0a-	7S02210	2a27a61	4U44	dDI
BIDe c p	u1 1	76a2	76Sa	7626	7642	1U21	dDI
Fwoe dbe	1Su 1	2407-	24-uS	2-7u6	24aSS	1U02	dDI
Fwoe dbe	1S6 1	76204	76010	7077-	7600-	1U4-	dDI
Fwoe dbe	111 1	2a--S0	2a6aa4	2au06S	2a0Su0	SU--	dDI
Fw8Idbe	47 1	76a0S4	702-a7	760-72	76aa47	SU6a	dDI
Fw8Idbe	44 1	-a776a-	6S6au24	-a10au-	-a07u7-	1U4S	dDI
FwIr C.	12 1	2416a7u	27-11a0	27uuuS2	27u-646	1U7u	dDI
FwIr C.	12 2	71S-S	7S1aS	7S624	7S621	1U4S	dDI
Fh8DIc p	7- 1	12-S-4	124a11	1240u4	124a16	SU11	dDI
Fh8DIc p	7- 2	uSS	11SS	a-u	a-7	1-U0-	dDI
FhIDe dbe	-2 2	776706	77u--0	772411	77-0u1	SUa7	dDI
FDr w8T	-a 2	61aS0S	617-u7	6S2aS6	611u-7	1U74	dDI
FDDDpI	67 2	-27u7-7	-1220uu	-Suu141	-14a06S	1U-7	dDI
&yI DIDI dbe	1-6 1	12-	1SS	1Su	111	11U46	dDI
&yI DIDI dbe	1-6 2	7S	77	77	72	-Ua0	dDI
EIr dbe	164 1	a2	60	0-	0u	16U70	dDI
EIr dbe	164 2	4S	7S	7S	77	10U72	dDI
GwoC8c dbe	16S 1	210	177	2Su	1u6	24U66	dDI
GwoC8c dbe	16S 2	120	140	10S	14u	14U60	dDI
HC8e dbe	16- 1	u4-0246	u6S6a41	u-0246-	u-4---1	SUa2	dDI
HC8e dbe	16- 2	76u1Sa6	704S7aS	7aa2u27	7uS400S	4U7-	dDI
t. odbe	11- 1	6Sa11-S	610SS-0	6164S0a	6141062	SU02	dDI
t. odbe	11- 2	u-2S64	u6-u01	a47S44	uu6aa7	-U-7	dDI
tIC.	-4 2	0a42a2	0aa6u0	0u0u71	0a7a70	SU0-	dDI
tIC.	-6 2	14u72404	14aaS0aa	14a2S4-6	14a14-06	SU-7	dDI
tIC.	-0 2	7671-a	7-uS4-	7-4-7-	7-u-uS	1U21	dDI
KIyDTC.	u7 1	246	226	20S	240	uUu-	dDI
Lpwo	2S6 1	6Sa7Suu	6S7-127	6106S01	61S1420	1U16	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pT:mwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Lpwo	2S0 1	- 2a0u64	- 21661a	- 717u00	- 20612S	S1aa	dDI
Lpwo	2Su 1	2477Sa41	24S426u-	2467027a	24776a- -	1U22	dDI
LdTbe	6 1	27471- 6	276S107	271046a	274S266	S1a2	dDI
5 wg. pI dbe	24 2	2u- 61a7	2u2a24-	2u107Sa	2u7424a	SU0S	dDI
5 w. gw. pI p	- - 2	10u- ua2	1u4uS21	10u- 6u1	1uS6- 71	1Uaa	dDI
5 C8yr op. be	a4 1	44264u-	4706- 20	440S174	44247u2	1US6	dDI
5 C8yr op. be	a- 1	644- u6a	67aa1a6	640264-	647a270	SUJu	dDI
5 C8yr op. be	a6 1	0S2u- 1S	0S- 6402	0Saa662	0S61- 4u	SUJ1	dDI
5 C8yr op. be	a0 1	4SS1au1	4S1S4a6	7aS6674	7a07S70	1U4-	dDI
5 C8yr op. be	au 1	1S2760uu	1S2S4Sua	1S242177	1S22060S	SU2S	dDI
mpCoye dbe	1- S 1	1S0	a7	1S0	1S2	0UJ7	dDI
mpCoye dbe	1- S 2	17	1S	0	1S	77U7S	dDI
mdkp8	6S 2	101a7u	160240	166- 17	16u- 66	1U0-	dDI
NhCI DhCIbI	71 2	a6u0	a- a-	a462	a- u1	1U1u	dDI
NCTwI I dbe	7a 2	u2S101	u2S22a	u221a1	u2Su64	SU14	dDI
9 hCodbe	1S7 1	- aS624u	6Sa26- -	6S10- 10	6SS- 404	1UJ6	dDI
9 hCodbe	1S7 2	20u0Sa4	2u61276	7S621- 1	2aS74a4	4UaS	dDI
3 dw. odbe	4- 1	7u47616	7a- aS27	7a0- 060	7a2617-	1Uu7	dDI
3 dw. odbe	4- 2	12aS67	171422	17a- 0S	1777- 2	4U17	dDI
3 p8p. dbe	u2 1	272S0	27712	27767	272a4	SU74	dDI
3 p8p. dbe	00 2	6uS	600	0S0	6uu	2U7a	dDI
3 p8p. dbe	0u 2	22a-	22u6	22- S	2200	1US-	dDI
3 8dC.	2u 1	177u4a04	171u67- 2	172u- 407	172u- 6SS	SU0-	dDI
3 8vpI	1S0 1	16Sa1a0	1610411	160S4u4	1672764	2US4	dDI
3 8vpI	1Sa 1	1- 0S0a7	1- 001S2	1- u417a	1- 00744	SU42	dDI
3 Codbe	27 2	4au47u7	4uuu44S	4ua1- aS	4a21401	1U11	dDI
3 TC. Tbe	u6 1	u044- uS	uu0- 1S2	u00Su4u	u0a6u47	SU0u	dDI
3 TC. Tbe	uu 1	0662a1a7	0- Sa270-	06a7S671	062104SS	1U2a	dDI
3 b8bI	74 1	41ua2S	416auS	4164u-	410462	SU71	dDI
ApIr dbe	1- a 1	u7au0a-	uu2S- S2	uua7- 4S	u0S420a	7US0	dDI
ApIr dbe	1- a 2	74aS- 7S	76S0a27	7uaSS64	7662u7a	- U61	dDI
Ahw8bbe	2S7 1	17- 62- 1	172u47u	17- 2a00	174- uua	1U17	dDI
Ahw8bbe	2S- 1	74S0167	77u64a1	7- 2- 7- 6	747a60S	2U1u	dDI
Ac	11u 1	aaSa- 0	au6ua1	a6a722	au27aS	1U10	dDI
AdTw. dbe	40 1	10711- -	1067- 42	10S7172	107261S	1U04	dDI
RIw. dbe	27u 1	4a017- 1	- S26024	- S4S1a7	- S120- 6	SU07	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuFqL3Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Vw. wodbe	-1 2	2-0066	2---S1	2-2-u-	2--2u4	1US2	dDI
YTpIr dbe	102 1	1Su	1Su	u7	1SS	14U47	dDI
YTpIr dbe	102 2	44	-6	-S	-S	11U11	dDI
YTpIr dbe	106 1	606S	02S2	0200	0SuS	7Ua-	dDI
YTpIr dbe	106 2	11-16	117-S	1222u	116au	7Uaa	dDI
YTTdbe	ua 1	1S62024S	1110a44u	111a2u1a	1Saaau76	2Ua7	dDI
YTTdbe	ua 2	1121276	116a-1a	17Su027	11aau26	uU11	dDI
Zc d	66 2	6S-Su7	-a0727	-a--71	-aa712	SUu-	dDI
ZdcdC. dbe	aS 1	212460a	217a24a	21-0214	214S7uS	SU06	dDI
ZdcdC. dbe	a1 1	44a270	4-6ua4	4-u4u7	4-4u01	1USa	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	- CS428	- 88- S-	- 801C6	- 88642	SF42	cps
Antimon9	12171	24S084C	24240- 4	24- C1- 0	242- CS0	SF6y	cps
Arsenic	0y72	616y6	622- 8	61662	618y2	SFy4	cps
Barium	1- y71	26- 886-	26C841-	26y- 428	266- y68	1F10	cps
Barium	1- 071	46yy046	4y00- 4S	46S- 4y8	4612181	SF80	cps
Ber9llium	C71	6S00- C	61y- C2	6S824S	61S4y0	SF0S	cps
Bismuth	2SC71	6SCC- 26	61406CC	61C0264	6148SC6	SF8S	cps
Bismuth	2SC72	2C2S- 21	2C16- 0C	2884- S8	2CS0SS-	SF68	cps
Bromine	8171	- 606	- 2- 4	- 410	- 442	6F4y	cps
. admium	1S871	40CS4	488Cy	48- 64	48- 88	1FS2	cps
. admium	1S671	60C- y	680- S	0SS08	68C14	1Fy0	cps
. admium	11171	y8Sy8y	y821y-	y04C6y	y0C2- 4	SF6y	cps
. alcium	4- 71	01- y- 8	028y40	024- 6-	02214C	1FS0	cps
. alcium	4471	1161y8Sy	11C1C- 8y	11CS808S	118146y0	1F46	cps
. arbon	1271	244S6yS	2418166	246C844	2442880	1FS6	cps
. arbon	1272	- 2461	- 2- 28	- 24Cy	- 2428	SF20	cps
. hlorine	- y71	12SC0C	1210- 4	12y1C0	1226- 0	1F8-	cps
. hlorine	- y72	88-	CSS	060	8yS	8Fyy	cps
. hromium	y272	6044S2	68S1y6	60y4S-	6066y4	SF4y	cps
. obalt	yC72	1210- 24	12- S146	12- 6C82	12281y1	SF81	cps
. opper	6- 72	1S2- C164	1S2y- 82C	1S2620S8	1S2y1CSS	SF12	cps
D9sprosium	1y671	1S8	18-	2- -	10y	- yFCy	cps
D9sprosium	1y672	C-	0-	60	08	10F84	cps
Erbium	16471	110	1S8	1yS	12y	10F64	cps
Erbium	16472	y0	20	yS	44	- yF44	cps
Gadolinium	16S71	22y	1C2	2y8	22y	14F82	cps
Gadolinium	16S72	1C-	100	22S	1C0	11F11	cps
Holmium	16y71	86C11C4	8048C- S	86- 2y01	86CS8C8	SF60	cps
Holmium	16y72	- 81612-	- 0- S10y	- 8- 426-	- 0C- y2S	1F40	cps
Indium	11y71	61- C444	6S601C2	6S8y004	6SC040S	SF62	cps
Indium	11y72	862222	86yS28	8yy112	86S080	SFyC	cps
Iron	y472	160S288	10S2y6y	101C246	16C0- 66	1F40	cps
Iron	y672	2C80S24C	2C6yyS60	- SS08- 10	2C860808	SF01	cps
Iron	y072	021yS-	02ySC8	0- 1yy6	026Sy2	SF0S	cps
Kr9pton	8- 71	226	2- S	2- 0	2- 1	2F48	cps
Lead	2S671	11C2- 614	12S4- 408	118- C- 0C	11C- y4CS	SF86	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	1S-S082-	1Sy-S-08	1S-11281	1S-8-161	1F2-	cps
Lead	2S871	401424C-	48-1y021	4080y406	400008C0	1F24	cps
Lithium	671	22y6S16	21C4-S2	2268810	22-C011	1F08	cps
Ragnesium	2472	y60262-	yy2-y6-	yy6y811	yy80--2	1F-0	cps
Ranganese	yy72	-y684C0	-6Cy04S	-6616C4	-641C00	1FB1	cps
Rol9bdenum	C471	86-1SC2	80y0CC-	88-Sy4S	80-C80y	1F16	cps
Rol9bdenum	Cy71	12016841	120-8S0y	1-SS0C4-	1282SCy-	1F20	cps
Rol9bdenum	C671	14SS6Syy	14S611-y	1414Sy6y	14S6C2y2	SF48	cps
Rol9bdenum	C071	0C4041-	0C6S2S1	08-y1S1	0C142-8	SFB0	cps
Rol9bdenum	C871	2S40Cy-8	2SCS48y0	2S416y4-	2S6SS-1-	1F2C	cps
Neod9mium	1yS71	2SS	18S	1y-	108	1-F10	cps
Neod9mium	1yS72	1-	1S	1-	12	1yF0-	cps
Nickel	6S72	--80y-	--8--C	--810-	--8422	SFSC	cps
Phosphorus	-172	1C802	1886-	1C002	1CyS2	2FBy	cps
Potassium	-C72	160-C1S	10486S2	101-22y	1011C12	2F18	cps
5hodium	1S-71	yCCS4y0	6S6y8-y	y81820-	yCy818C	2F1-	cps
5hodium	1S-72	20686CC	28S2-y0	28S0460	20C2841	SF0y	cps
3candium	4y71	-Cy6SCS	-8CC446	-8y0C-2	-CS448C	1F26	cps
3candium	4y72	12CS00	1-S1-0	12C0S-	12C6-C	SF41	cps
3elenium	8271	444-C	442C2	440-2	44488	SFyS	cps
3elenium	0072	1-00	1-CS	146-	141S	-F-1	cps
3elenium	0872	4yC0	448C	44y2	4y1-	1F60	cps
3ilicon	2871	2y8S2y4-	2y16C2y1	2ySSS-C0	2y-24S64	1F60	cps
3ilver	1S071	-22-2SC	-248122	-20-414	-24824C	SF00	cps
3ilver	1SC71	-Sy881S	-12ySyy	-S-C606	-S04y14	1F46	cps
3odium	2-72	CC2S64y	C0CySS0	1SS-8SC-	CC10C1y	1F2-	cps
3trontium	8671	16C8S2y8	101861C0	102-S-SC	101-22yy	SF08	cps
3trontium	8871	1yS6y8CC1	1y226C480	1y2y08-2S	1y18-yyCC	SF68	cps
3ulfur	-471	y2y8y8	y2-0-4	y2y6C2	y2ySCy	SF22	cps
Terbium	1yC71	80yCS6C	8Cy8810	88200-0	8848y41	1F1y	cps
Terbium	1yC72	-0C0818	-0S81S8	-066-C4	-0y044S	1F21	cps
Thallium	2S-71	28S-1C1	2CSy6-C	28120C0	284Sy42	1FCC	cps
Thallium	2Sy71	6020S18	6828210	66C61C1	60yS406	1FS2	cps
Tin	11871	1C84261	2S-y2y2	1CCCyy6	2SS6-y6	1F-S	cps
Titanium	4071	-418SSy	-428240	-4yyC-0	-4-4S6-	SFy0	cps
Mranium	2-871	C0S2160	1S2-18S2	1S10CS40	1SS-0602	2FC1	cps

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	y172	y1yS24	y1C168	y10yS6	y102- -	SF4S	cps
Ytterbium	10271	1yS	142	1y8	1yS	yFy6	cps
Ytterbium	10272	1SS	1SS	y6	8y	- SF12	cps
Ytterbium	10671	128CS	12- y6	1- 24S	1282C	- F40	cps
Ytterbium	10672	14S- y	141C0	14441	1422y	1F44	cps
Yttrium	8C71	11- - 414C	1S04- SC2	11S48842	11S42S28	2F68	cps
Yttrium	8C72	11yy- 2-	11y6- 0y	11y8SS6	11y6y68	SF12	cps
Zinc	6672	11C82- 6	12S- S24	11C4C8-	11C8048	SF- 4	cps
Zirconium	CS71	410S486	4S6S242	4- 1S8- 8	418Sy22	- FSS	cps
Zirconium	C171	8C00C6	8C- - y-	CS6186	8CC112	SF02	cps

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S0	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	0J0145	0J1121	09-S16	0J0S94	S.06	cpw
Antimony	12171	4J-S461	51S4055	49614S4	496554S	2.06	cpw
Arwenic	0572	120S5-	125JS-	126J1S	126555	S.52	cpw
Bsrium	1-571	5-1S---	55--061	5456219	54--4-J	2.S9	cpw
Bsrium	1-071	94S4942	90J60-9	946J--9	955--4S	2.14	cpw
BeryPium	971	1216614	1255-2J	1216952	12296-1	1.J1	cpw
Biwmuth	2S971	61J9114	5526--0	6S49116	5921522	5.9S	cpw
Biwmuth	2S972	2JJ0541	29S9095	29625J2	291990-	1.-2	cpw
Bromine	J171	-S05	2J92	-142	-S-0	4.26	cpw
Csdmium	1SJ71	95449	909J4	90606	90S-6	1.4-	cpw
Csdmium	1S671	1--500	1-0962	1-694-	1-6161	1.69	cpw
Csdmium	11171	11512--	11JJ5J-	116606J	116JJ62	1.61	cpw
CsPium	4-71	15412-J	1611S29	152J069	156S-45	2.J4	cpw
CsPium	4471	2-424416	24S9-599	2-2J2661	2-6SS225	1.J4	cpw
Csrbon	1271	24-629J	249JS0S	259S654	25SJ-4S	-.1S	cpw
Csrbon	1272	-4691	----J	-6S11	-46JS	-.J5	cpw
ChPrine	-571	119909	122J6S	12-J00	1222-9	1.65	cpw
ChPrine	-572	1SSS	J42	1110	9J6	14.SS	cpw
Chromium	5272	14J440-	1445-5-	1440462	1459S96	1.51	cpw
CobsPt	5972	26-S1S4	2509524	2564-00	2591--5	1.--	cpw
Copper	6-72	2S5S9S1-	2S509106	2S59596S	2S561-J-	S.22	cpw
Dywprowium	15671	2J-	-42	460	-64	25.04	cpw
Dywprowium	15672	10-	210	15S	1JS	1J.09	cpw
Erbium	16471	2SJ	15S	242	2SS	2-.2S	cpw
Erbium	16472	50	60	40	50	10.65	cpw
GsdoPnium	16S71	292	-05	-SJ	-25	1-.50	cpw
GsdoPnium	16S72	250	20-	-4-	291	15.JS	cpw
HoPnium	16571	9169402	09292J1	JJ194SS	J6-9-J4	0.4S	cpw
HoPnium	16572	-091S5J	-904462	-96002S	-911SJS	2.66	cpw
Indium	11571	6161905	5405S29	6162001	59--25J	6.69	cpw
Indium	11572	J0S652	J694S6	J0-5S2	J011J0	S.24	cpw
Iron	5472	-4211-2	--6S0S-	--9251S	--91449	S.J9	cpw
Iron	5672	62S5159S	595-6164	6S15J-SJ	6S5J2S21	2.16	cpw
Iron	5072	1560665	1529449	1556040	15512J0	1.20	cpw
Krypton	J-71	222	244	2-1	2-2	4.59	cpw
Lesd	2S671	2461-6-S	24-54JJ5	245-426-	245SS926	S.54	cpw

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	21190-JJ	2S925J12	2152115S	212140J-	1.4S	cpw
Lesd	2SJ71	90J4J5-6	9019609S	9J-9S191	90J11J-9	S.61	cpw
Lithium	671	2140549	2S5--00	210-299	2124042	2.90	cpw
Msgnewium	2472	114S0-5S	11--6J24	112J2162	11-42112	S.55	cpw
Msngsnewe	5572	0-21461	0144926	0412162	0292J49	1.J6	cpw
MoPybdenum	9471	1JS6-194	1J52SJ02	1JS05J5J	1J219905	1.4-	cpw
MoPybdenum	9571	26S-9-29	260J9059	26091966	2654S-51	1.6-	cpw
MoPybdenum	9671	2J-9J64J	2921-200	29-11629	2J90451J	1.0-	cpw
MoPybdenum	9071	1622929J	166S1J-2	16-941J9	164SJ44S	1.14	cpw
MoPybdenum	9J71	41604596	42-62144	4--50241	4246466S	1.99	cpw
Neodymium	15S71	-20	2J0	-40	-2S	9.55	cpw
Neodymium	15S72	6S	4-	4-	49	19.69	cpw
NickePP	6S72	600291	60SS5J	60J42-	605250	S.60	cpw
8howphoruw	-172	-9-54	4S4J2	4S641	4S159	1.05	cpw
8otswwium	-972	-5210-9	-425655	-5J--54	-51S249	2.26	cpw
Rhodium	1S-71	6SJJ616	5444022	590J9S4	5J-0414	5.9S	cpw
Rhodium	1S-72	2JS925-	2J5J016	2J15151	2J200S6	S.96	cpw
3csndium	4571	-992J--	-6S-6-0	-0JJ054	-095S05	5.1-	cpw
3csndium	4572	1-4402	1-2145	1-5600	1-4S9J	1.-4	cpw
3ePenium	J271	J0J5S	J9J-5	J9S09	JJ921	1.1-	cpw
3ePenium	0072	26JS	2040	2040	2025	1.41	cpw
3ePenium	0J72	J921	J949	J94J	J9-9	S.1J	cpw
3iPcon	2J71	49290924	5S-2S-41	49121256	49509J4S	1.-1	cpw
3iPer	1S071	6-9--J0	65S94S4	6-00S0J	642662-	1.12	cpw
3iPer	1S971	5941J0J	626-6J5	6S5412S	6SJ6561	2.6J	cpw
3odium	2-72	19000194	19J9450S	1994J-24	19J0--62	S.44	cpw
3trontium	J671	-546JJ-9	-6S4-9-6	-5J51164	-50J09JS	S.J2	cpw
3trontium	JJ71	-1S14J-49	-1200SJS0	-1-04J099	-12222651	S.6S	cpw
3uPPur	-471	00S125	0J2626	069226	00-992	S.90	cpw
Terbium	15971	911-214	J2SSJ61	J050655	J69S500	5.29	cpw
Terbium	15972	-00S19S	-JSJ621	-JS1106	-09--29	S.54	cpw
ThsPPum	2S-71	50590S0	5J260-5	50-0J9J	50040JS	S.JS	cpw
ThsPPum	2S571	1-0J1600	1-00S-0-	1-54-165	1-69J4S5	S.9J	cpw
Tin	11J71	4S-0JJ9	4156112	4S609J0	4SJ0-29	1.5S	cpw
Titsnium	4071	6J0SJ-4	6999012	699J145	69562-1	1.S6	cpw
Ursnium	2-J71	2S560521	21-J-JS5	2S666J55	2SJ02020	2.1-	cpw

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LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S0	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1S542J4	1S49516	1S6S625	1S54JS9	S.5-	cpw
Ytterbium	10271	225	160	1J-	192	15.6J	cpw
Ytterbium	10272	1S6	144	110	122	16.-9	cpw
Ytterbium	10671	25S5S	26S1S	25J59	256-9	2.S1	cpw
Ytterbium	10672	19426	19J1S	19142	19459	1.02	cpw
Yttrium	J971	114S90-9	1SSJ-015	111S-092	1SJ65049	6.-9	cpw
Yttrium	J972	11J6J02	119J552	11J4S42	11J9J22	S.65	cpw
Zinc	6672	251-S4S	25--J59	255S246	25-2-J2	S.04	cpw
Zirconium	9S71	J49SJ4-	JJ19S59	J4J5965	J59J622	2.22	cpw
Zirconium	9171	192192S	1909S-0	1904450	195J401	1.62	cpw

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LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
APminium	20 2	751S- 1-	7- - S91-	4S2- 416	7575510	1.5-	cpw
Antimony	121 1	2052	269S	4S26	7196	27.50	cpw
Arwenic	09 2	45	97	04	95	22.- 5	cpw
Bsrium	179 1	4157	77S5	7- 06	7052	11.- 1	cpw
Bsrium	170 1	0176	6076	6- S2	6- 51	7.11	cpw
BeryPium	5 1	254	2S1	252	262	2S.21	cpw
Biwmuth	2S5 1	9949666	4- 51027	9995265	9772215	0.16	cpw
Biwmuth	2S5 2	2072110	2015000	2047792	2071045	S.47	cpw
Bromine	- 1 1	9657	0S44	0576	6- 51	16.75	cpw
Csdmium	1S- 1	1S-	05	1SS	56	19.6-	cpw
Csdmium	1S6 1	74S1	7129	7942	7796	6.71	cpw
Csdmium	111 1	1SS2	- 04	5S1	529	0.2-	cpw
CsPcium	47 1	6999944	6- 64624	60- 0- 64	6076S11	2.75	cpw
CsPcium	44 1	1S- 900549	11145S1S6	11S411591	11S16SSS1	1.74	cpw
Csrbon	12 1	225267S	2767159	2474219	2767740	7.SS	cpw
Csrbon	12 2	74719	74- 09	79792	74- 40	1.45	cpw
ChPorine	79 1	172650	17- S0S	17- 4S-	176751	2.79	cpw
ChPorine	79 2	1110	1S9-	12- 7	1197	1S.17	cpw
Chromium	92 2	- 9S6	- - 25	- 947	- 626	2.S9	cpw
CobsPt	95 2	6119	6141	6S99	61S4	S.07	cpw
Copper	67 2	0719	0229	0252	020-	S.64	cpw
Dywprowium	196 1	1SSS	1S60	11SS	1S96	4.- 2	cpw
Dywprowium	196 2	450	9SS	450	45-	S.75	cpw
Erbium	164 1	229	2S-	19S	154	2S.26	cpw
Erbium	164 2	16S	50	60	1S-	44.21	cpw
GsdoPhium	16S 1	12- 7	1S9S	1210	11- 7	1S.16	cpw
GsdoPhium	16S 2	- - S	090	097	050	5.S6	cpw
HoPmium	169 1	- 9- 9S5S	04- 224S	- 0461- S	- 20110S	- .72	cpw
HoPmium	169 2	7- 92097	7- 42- 19	7- 2- - 9S	7- 41407	S.71	cpw
Indium	119 1	9- S- 415	9S59205	9- 00- 50	9957- 69	0.04	cpw
Indium	119 2	- 0674-	- 60509	- 6- 51-	- 01S- S	S.97	cpw
Iron	94 2	16149S95	1615S744	19- 17045	16S4501-	1.2-	cpw
Iron	96 2	2511- S- 91	2500S0062	2- 55S- 0S6	25257244S	1.47	cpw
Iron	90 2	046629S	0706205	045S059	0444441	S.- 1	cpw
Krypton	- 7 1	224	225	296	276	0.41	cpw
Lesd	2S6 1	12640	11691	179S4	126SS	0.76	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
Lesd	2S0 1	12415	5719	1S599	1S-56	14.29	cpw
Lesd	2S- 1	99-26	4929S	91---	9S5--	1S.4-	cpw
Lithium	6 1	2S6427-	1-16249	2S4424-	150451S	6.5-	cpw
Msgnewium	24 2	94544-0-	9429S5S9	94219150	9440S720	S.06	cpw
Msngsnewe	99 2	9701	9764	9444	9757	S.-2	cpw
MoPybdenum	54 1	-262	95S2	-9-0	09-7	15.77	cpw
MoPybdenum	59 1	1S541	-27-	5517	5650	14.S0	cpw
MoPybdenum	56 1	1260S	57S4	12477	11465	16.7-	cpw
MoPybdenum	50 1	6949	911S	6--9	61-S	19.29	cpw
MoPybdenum	5- 1	1-45-	11475	10290	19071	27.56	cpw
Neodymium	19S 1	2SS	2SS	2SS	2SS	S.SS	cpw
Neodymium	19S 2	6S	77	60	97	77.S-	cpw
NickePP	6S 2	79S0	7720	7294	7767	7.--	cpw
8howphoruw	71 2	109	29-	210	210	15.27	cpw
8otswwium	75 2	1072717-	10204192	1070-S65	1072912S	S.7S	cpw
Rhodium	1S7 1	990S7SS	4-5-995	9491746	97S6079	6.09	cpw
Rhodium	1S7 2	264S5-1	2675-S-	26---16	2696979	1.S9	cpw
3csndium	49 1	70-4706	772610S	700S-46	7620171	0.15	cpw
3csndium	49 2	174042	177066	177SS2	177-70	S.69	cpw
3ePenium	-2 1	979	420	422	462	17.00	cpw
3ePenium	00 2	1S	10	17	17	29.S1	cpw
3ePenium	0- 2	61	96	52	0S	20.55	cpw
3iPcon	2- 1	645621	054140	-79S61	0956S5	12.-7	cpw
3iPer	1S0 1	11S-	1209	11SS	1161	-.9S	cpw
3iPer	1S5 1	1109	1S9-	552	1S09	-.67	cpw
3odium	27 2	594-0729	5647-SSS	540117S4	59949947	S.51	cpw
3trontium	-6 1	11567	-9-0	1S167	1S27-	16.9S	cpw
3trontium	-- 1	-5917	99254	-2-06	09-54	27.51	cpw
3uPur	74 1	209611	201049	2010-S	207S49	S.-1	cpw
Terbium	195 1	--22442	0972SS5	-6S7-04	-715442	-.7S	cpw
Terbium	195 2	7022214	700416-	7-S265S	7066790	1.S-	cpw
ThsPium	2S7 1	1652	199S	16SS	1614	4.49	cpw
ThsPium	2S9 1	44-9	7995	4791	4172	12.11	cpw
Tin	11- 1	796S	7S10	74S1	7726	-.7-	cpw
Titsnium	40 1	2160	1229	27SS	1-5-	7S.-5	cpw
Ursnium	27- 1	4700	74S1	4495	4S05	14.44	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpRe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CRent:3smpRe:ID:J	3S-	DiRtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiRe:Nsme:J	S11CAL3.d

8srsmeter	Msww	C831	C832	C837	C83Mesn	C83R3D	Unitw
Vsnsdium	91 2	7-0	770	4SS	704	-.52	cpw
Ytterbium	102 1	129	229	110	196	7-.06	cpw
Ytterbium	102 2	61	61	0-	60	14.44	cpw
Ytterbium	106 1	1777	1209	1960	1752	11.S5	cpw
Ytterbium	106 2	56S4	5-47	5957	56-S	1.46	cpw
Yttrium	-5 1	1S526S72	547-012	1S-0474S	1S417S2-	-.11	cpw
Yttrium	-5 2	11527S0	12S7-71	12S1S66	1155S6-	S.9S	cpw
Zinc	66 2	2-00	2000	2-7S	2-2-	1.00	cpw
Zirconium	5S 1	9S1S	4774	9026	9S27	17.-6	cpw
Zirconium	51 1	12SS	11SS	12SS	1160	4.59	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTaaa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTaaa	3-7S0	TqNiq FaM O.Das	1
TlilAacqlatOoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNlablr las	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
dNer qFqer	20J2	214yy	2Sm y	2Syy4	21110	1U6S	O&P
dFiq .Fh	121J1	ymmy4m	1SSmy1S	yy64m1	yym11:	1US1	O&P
dDPlFqO	0 J2	2m24	2m4mm	2m4S:	2m 0y	SU44	O&P
BlDqer	1: J1	1SmS24	1Sy:S1	111140	1Sy4y1	1U4:	O&P
BlDqer	1:0J1	1yS00y	1yS1m2	1my:4y	1yS1S:	SUm	O&P
BlDmNqer	yJ1	1:6S62	1:61S2	1:m6:6	1:6y::	1USm	O&P
BqPr eiE	2SyJ1	6:2:S::	64y6S62	64664 2	642m 16	1U44	O&P
BqPr eiE	2SyJ2	:12mS0y	:1:0:m	:1m 4 y	:1 S:S0	SUym	O&P
BDr qFl	m1J1	4110	:y y	4S10	4S:1	1Uyy	O&P
-lnr qer	1SmJ1	mm 2	mm2m	m011	m0yS	SU0m	O&P
-lnr qer	1S6J1	1 :y2	1 0:4	14mSS	1 :Sy	:USy	O&P
-lnr qer	111J1	124y04	12y022	120 1S	1204S2	1Um0	O&P
-lNqer	4:J1	2m mS	2y:12	2m Sm	2mmSS	1U	O&P
-lNqer	44J1	4my4y4	4y6:11	SS:1S	4y :02	1U1S	O&P
-lDp.F	12J1	26:S002	26 m1 2	2022y m	260S620	1U00	O&P
-lDp.F	12J2	:4:66	::464	:4 2	:411m	1U6m	O&P
-ENDqFl	: J1	1S2Sy2	ymm 0	1SS041	1SS 0	1U6:	O&P
-ENDqFl	: J2	0 m	0SS	660	0Sm	6U	O&P
-EDr qer	2J2	1 1:my	1 1SS1	1 SyS4	1 1Sym	SU10	O&P
-.plN	yJ2	20y2S1	20:624	206:1m	206:m1	1US1	O&P
-.&&lD	6:J2	21my S	2104y2	212 m2	216:42	1U4	O&P
ThP&DPqer	1 6J1	S	m	m	6	m6U6S	O&P
ThP&DPqer	1 6J2	:	0	S	:	1SSUS	O&P
GDpqer	164J1	42	1Sm	S	60	4U4y	O&P
GDpqer	164J2	2:	:0	20	2y	24US:	O&P
HIn.NqFqer	16SJ1	60	110	0	m6	:1U11	O&P
HIn.NqFqer	16SJ2	1:0	14S	1 0	144	0U42	O&P
K.Nlqer	16 J1	m00 Sm	y1Sym 4	mm m S6	my144m2	1Uy	O&P
K.NlqER	16 J2	4S0 6:1	:y11y0:	4S00yS:	4S21m 6	2U0	O&P
3Fnqer	11 J1	64 0S:6	60y:y06	66 mm	66:6622	2U6	O&P
3Fnqer	11 J2	y6y606	y024 2	y0 60	y026S1	SU1	O&P
3DF	4J2	14Sy::	1:m61S	14S4 2	1:yyym	SUm	O&P
3DF	6J2	262 6:2	2 m 222	26226:y	2611164	SUm6	O&P
3DF	0J2	6:1S6	61my	6:22:	62041	1U10	O&P
gDh&i.F	m J1	2 2	2:0	216	2:	0U04	O&P
LIIn	2S6J1	1SS006	1S2:2 S	1S24:04	1S1m46:	SUy1	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacq lad CoeqDnas	2S2:JS0J12a1:s14sS:	TlilMqNlabl r las	S1 3-7Uh

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9t T	RFqP
LlIn	2S0J1	m621 :	m ::4	m62:S6	m yy:1	SU46	O&P
LlIn	2SmJ1	424my62	4246mS1	42221 S	42:y:S	SU	O&P
LqEqer	6J1	2424066	2 1012:	241m224	24 ::01	2U2	O&P
5lkFlPqer	24J2	1: 0ym	1:4 6m	1: yS	1: 424	SU	O&P
5lFklFlPl	J2	0 S6y	0 :60	0 44m	0 2y	SU20	O&P
5.NlpnlFer	y4J1	4::	:0	4 m	422	1SU1:	O&P
5.NlpnlFer	y J1	:10	4SS	2m	:::	1mUS:	O&P
5.NlpnlFer	y6J1	40	6::	60	y4	10U0	O&P
5.NlpnlFer	y0J1	10	210	10	1my	12U0:	O&P
5.NlpnlFer	ymJ1	60	6SS	6Sy	y2	:U0:	O&P
bl.nhr qer	1 SJ1	1:	0	S	0	yyUym	O&P
bl.nhr qer	1 SJ2	S	S	S	S	SUSS	O&P
bqOvlN	6SJ2	m102:	0y66	mSSy4	mS4y4	1U	O&P
uE.P&E.DeP	:1J2	260	22	210	2:6	11U	O&P
u.ilPPqer	:yJ2	1 2 y:	1 S46:	14yy:2	1 Syy6	SUy:	O&P
9E.nqer	1S:J1	64 1	6006m 0	6 mm 44	66S m6	2U40	O&P
9E.nqer	1S:J2	:16m62S	:1m2S62	:1m20ym	:100m20	SU2	O&P
t OlFnqer	4 J1	41:414y	4:0m 21	42my1:4	426026m	2UyS	O&P
t OlFnqer	4 J2	1401	146226	1404yy	146y6S	SU4	O&P
t lNlFqer	m2J1	2SSmm	2S m	2S6	2S4:4	1U4m	O&P
t lNlFqer	00J2	610	64S	610	624	2U16	O&P
t lNlFqer	0mJ2	212y	2141	214m	214S	SU4	O&P
t qNlD F	2mJ1	1y2S0:	1mm2ym	1m66y6	1mySS22	1U46	O&P
t qNlD	1S0J1	:26m16	:::4SS	::S6y0	::S:S4	1USS	O&P
t qNlD	1SyJ1	:S0S01	:1602y	:1:4 y	:1242S	1U0	O&P
t .nqer	2:J2	4:40m	420y6S	4:S12S	4:Sy	SUm1	O&P
t iDFiqer	m6J1	11Sm	060	m42	yS6	1yUm	O&P
t iDFiqer	mmJ1	4yS1	4106	4110	4:ym	yUy:	O&P
t eNvD	:4J1	:S S2m	:S 622	:S01y2	:S y40	SU0	O&P
clDpqer	1 yJ1	mm446 4	y6: Sm	y41yyS0	y2yymm2	4Uy	O&P
clDpqer	1 yJ2	4S:0SS2	4S102S2	:y:6m02	:yy0S2	1U:	O&P
cElNqer	2S:J1	12 0m1y	120S::2	12:1y1	12 :: 6	1U6	O&P
cElNqer	2S J1	:Sy6m62	:12yy:1	:141 41	:12200m	SU04	O&P
cqF	11mJ1	1 m	1:::	1210	1:0m	1:U6S	O&P
cqlFqer	40J1	22	210	2SS	214	Uy	O&P
RDFqer	2:mJ1	242	1 m	142	1m1	2yU60	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
LIpatlr &NlaBTasa	3-7S0	3FPlDer Fliablr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM Cl.Das	1
TlilAacqlatCobedDnas	2S2:JS0J12a1:s14sS:	TlilMqNlablr las	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
7lFlnqer	1J2	111my6	111y26	11: Sy	112444	SUn2	O&P
YiilDpqer	102J1	S	60	m	m	14U2y	O&P
YiilDpqer	102J2	2m	10	:y	2m	:yUy	O&P
YiilDpqer	106J1	1110	110	122	1102	4U6:	O&P
YiilDpqer	106J2	yy6	11S20	1S21	1S4S2	U4	O&P
YiiDqer	myJ1	116ym01:	11yS4646	122:mS06	11y4014	2U2m	O&P
YiiDqer	myJ2	1:S04y	12m14Sm	12y662y	12y 100	1US1	O&P
ZqFO	66J2	20 4	226:	10y1	226y	SUy2	O&P
ZqDO Fqer	ySJ1	62	642	42	6S:	mUny	O&P
ZqDO Fqer	y1J1	2 S	2 m	2 S	2 :	1UyS	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LIpJ.tlr &NJ.JBTJaJ	3-BS07	3FPlDer FliJ.blr lJa	um
-NJFiJ.tlr &NJ.JBTJaJ	3-BS07	TqNiqFJ.RlO.DJa	1
TlilJAJ.cqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJ.blr lJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
dNer qFqer	20:2	11S	1S1	s2	1S1	m104	O&P
dFiq .Fh	121:1	627	7s2	m7S	6ms	2SM1S	O&P
dDPlFqO	07:2	12	1S	7	s	4SN36	O&P
BlDqer	1 7:1	7S	m	07	6s	24Nm	O&P
BlDqer	1 0:1	s2	m	127	1SS	22N37	O&P
BlDnNqer	s:1	66	6s	74	6	12N0m	O&P
BqPr eiE	2Ss:1	670s072	64s6S62	64S01s	64s4 7	1M	O&P
BqPr eiE	2Ss:2	S0m4S6	Ss11SS	141742	1S 6m	1N3m	O&P
BDr qFl	m1:1	s10	s7s	4S 4	s0S	1M4s	O&P
-lnr qer	1Sm1	10	m	2s	2m	0N04	O&P
-lnr qer	1S6:1	s26	71	7s2	62	0N40	O&P
-lnr qer	111:1	41m	46	ms	m4	sM42	O&P
-lNqer	4 :1	2S0	242	2S4	21m	sM11	O&P
-lNqer	44:1	2177	1m12	212S	2S2s	SM7s	O&P
-lDp.F	12:1	22Ss 6S	217m101	216ss	210s174	1M2	O&P
-lDp.F	12:2	202s	26sSS	20 7s	201m4	SN41	O&P
-ENDqFl	7:1	m61 s	mSm42	mSmSs	m27s6	N01	O&P
-ENDqFl	7:2	660	67m	6	67	2N06	O&P
-EDr qer	72:2	1S0	1S4S	1S6	1S7s	1N02	O&P
-.plN	7s:2	s	70	1SS	m	2mN3S	O&P
-.&&lD	6 :2	67	6SS	610	62	4Mm	O&P
ThP&DPqer	176:1	m	m	S	6	m6N0S	O&P
ThP&DPqer	176:2	1S	0	S	6	s1N04	O&P
UDpqer	164:1	7S	42	42	44	1SM12	O&P
UDpqer	164:2	0		20	2	17MS	O&P
Gln.NqFqer	16S:1	07	s2	s2	m6	11M1m	O&P
Gln.NqFqer	16S:2	1S0	12S	14S	122	1 N0	O&P
H.NqNqer	167:1	s1s2 72	sSm21S0	ms462 2	sS0 764	1M6	O&P
H.NqNqer	167:2	smmsS0	sms4S6	sm1m6s	sm6020	SM11	O&P
3FnqNqer	117:1	6600 m	66 S4	6741226	6610210	1N37	O&P
3FnqNqer	117:2	s6 20s	s777S0	s4m2 s	s77607	SN0s	O&P
3DF	74:2	461	42m	460	472	4N06	O&P
3DF	76:2	60	12	112	2SS	4M71	O&P
3DF	70:2	m	s4	1SS	s	sM16	O&P
KDh&i.F	m :1	17	24s	26s	200	12N27	O&P
LIln	2S6:1	1S	s10	ss7	sm2	6N37	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LlpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
LlIn	2S0:1	m2m	07S	0ms	0ms	4Ns	O&P
LlIn	2Sm1	41SS	4S2	7s7	sS6	6Ns0	O&P
LqEqer	6:1	24 6472	244S420	2 s21 S	242 SS	1M11	O&P
9lgFlPqer	24:2	s2	1Sm	110	1S6	12N36	O&P
9lFglFlPl	77:2	4S	7S	70	4s	10M16	O&P
9.NpnlFer	s4:1	1s2	17m	110	176	24M16	O&P
9.NpnlFer	s7:1	m	m		42	s1N06	O&P
9.NpnlFer	s6:1	1	1	127	1 1	N0s	O&P
9.NpnlFer	s0:1	42	m	42	1	62Nds	O&P
9.NpnlFer	sm1	07	60	1SS	m1	21N7	O&P
bl.nhrqer	17S:1	2S	2S	0	16	4sM10	O&P
bl.nhrqer	17S:2	S	S	S	S	SN3S	O&P
bqOklN	6S:2	70	6S	4S	72	2SM72	O&P
uE.P&E.DeP	1:2	210	10	210	27S	2 N3s	O&P
u.ilPPqer	s:2	1S601	1S221	1S4S4	1S4 2	2M10	O&P
yE.nqer	1S :1	6s740S0	6771m74	6647747	6010 6m	M14	O&P
yE.nqer	1S :2	17202m	SmmSsS	S711s4	Ss0 0	1N06	O&P
tOlFnqer	47:1	4 mSmSs	4242S62	4 120m2	4 11mm4	1N61	O&P
tOlFnqer	47:2	147 1	14 S67	14 40s	14 s7m	SM14	O&P
tlNlFqer	m2:1	:4s	1s	:1m	:16	:21 M7	O&P
tlNlFqer	00:2		S	S	1	10 N21	O&P
tlNlFqer	0m2	16	22	2S	1s	17MS	O&P
tqNlD F	2m1	100s1s	104 6s	10SsS	104 s0	2N31	O&P
tqNlD	1S0:1	2	7S	10	SS	2SN3	O&P
tqNlD	1Ss:1	2m	160	SS	27S	2sN36	O&P
t.nqer	2 :2	24s22	2 s47	24201	24 0s	2N34	O&P
tiDFiqer	m6:1	727	707	4	711	14N36	O&P
tiDFiqer	mm1	14	m7S	m7S	1S47	2N27	O&P
teNeD	4:1	S4Ss	S20 0	S70 6	S41ms	SM4s	O&P
clDqer	17s:1	s147146	s m627	s122426	s210s42	1N7s	O&P
clDqer	17s:2	s 66sS	s16062	m00 Ss	s1S27	SN70	O&P
cElNqer	2S :1	642	460	742	77S	17Ns6	O&P
cElNqer	2S7:1	1 60	14SS	12s2	1 7	4M1S	O&P
cqF	11m1	1SSS	1S27	11	1S7	6N0	O&P
cqlFqer	40:1	1SS	17S	107	142	26Ns6	O&P
5DFqer	2 m1	07	10	m		1SmNs0	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJber plDa	LB1264S0	C&lDi.Da	wlP8lN
LlpJlr &NJBTJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NqFiJlr &NJBTJaJ	3-BS07	TqNiq FJRlO.Da	1
TlilJAJcqlJdObedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-ut ytT	5FqP
VlFlnqer	71:2	7S	1S	1	24	sSMS	O&P
YiilDqer	102:1	s2	7m	07	07	22M2	O&P
YiilDqer	102:2	2m	44	11	2m	6SM1	O&P
YiilDqer	106:1	12	1707	12Sm	1 s	17MS	O&P
YiilDqer	106:2	sm4	1S 01	1SSSs	1SS04	2M3m	O&P
YiiDqer	ms:1	12S70402	11s061Ss	11s4661s	11ss 4SS	SM4m	O&P
YiiDqer	ms:2	12mssS6	1264S 6	1276m42	120S261	1M0	O&P
ZqFO	66:2	14S	14	1s	17s	1mMS	O&P
ZqDO Fqer	sS:1	4s2	7m	4s2	722	1SM4	O&P
ZqDO Fqer	s1:1	7S	7m	m	64	20M6	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
ur p q qr p	20a2	J09S: 4:	Jbb: 22:	J922S62	Jb6: 944	1F0:	d&8
. iqp C. y	121a1	69b:	6994	646S	6b1J	4F49	d&8
t8D. qpl	0: a2	0:	bJ	06	0b	: F 9	d&8
BPtqr p	1J: a1	16SS	1: : S	1642	1: 90	2Fb0	d&8
BPtqr p	1J0a1	26b4	26S9	2042	260b	2F S	d&8
BDtyuqr p	9a1	419	44:	Jb9	410	6F04	d&8
Bq8p r ih	2S9a1	: 9: 14J2	: 9: S9S4	: 990120	: 9664b0	SF44	d&8
Bq8p r ih	2S9a2	29SJ9bS	296JS16	2b4: J: 9	29S411b	2FSJ	d&8
BtCp q D	b1a1	J: 26	J: b4	J910	J606	: F0:	d&8
- Pop qr p	1Sba1	1646	1: SS	1: Jb	1: 61	4Fb:	d&8
- Pop qr p	1S6a1	J: : 1	J692	JJ2:	J: 2J	: F2:	d&8
- Pop qr p	111a1	1SS0	122b	994	1S06	12F2S	d&8
- Pudqr p	4Ja1	1J06b06	141: SJ2	14J12: 1	14S002S	1F9b	d&8
- Pudqr p	44a1	224b6291	22611044	2204bSb:	2261: J0J	SF b	d&8
- Ptl C.	12a1	11JS2: bS	1126bS04	1122JJ00	11264600	SFJ:	d&8
- Ptl C.	12a2	14Jb16	1421b4	14S19b	142S66	1F2b	d&8
- huCtq D	J: a1	6J: 1262	00SJ9: 6	9S99: 10	001b24:	10FbS	d&8
- huCtq D	J: a2	bb: 62	949: J	99140	94221	: F66	d&8
- htCp qr p	: 2a2	2919J	2b6J:	2902b	291b:	1Fb0	d&8
- Cl Pui	: 9a2	J104	J19S	J110	J16S	1F22	d&8
- C&&Dt	6Ja2	1: : 49	1: bS2	1: J: 2	1: : 60	1F4:	d&8
Ty8&tC8qr p	1: 6a1	S	b	60	2:	14: FJ1	d&8
Ty8&tC8qr p	1: 6a2	1J	J	1J	1S	: 0F0:	d&8
Etl qr p	164a1	: S	1Sb	1SS	b6	J6F64	d&8
Etl qr p	164a2	40	4S	J0	41	12FJ9	d&8
GPoOuqqr p	16Sa1	60	bJ	142	90	4SF S	d&8
GPoOuqqr p	16Sa2	110	1JS	1: S	1J2	12F69	d&8
HOup qr p	16: a1	b6S0194	b0: 04b:	bb6: 02J	b04J460	1F4b	d&8
HOup qr p	16: a2	JbJ101J	Jb: 9: : S	J9b2620	Jb91290	2FS6	d&8
3 oqr p	11: a1	6140J: J	614: 4S1	610J299	61: : J: 1	SF2:	d&8
3 oqr p	11: a2	b9J916	b9J1b6	9S21: b	b9642S	SF 6	d&8
3tC.	: 4a2	6: 66bb:	64S0bb1	6461: S0	640b0: b	1F2:	d&8
3tC.	: 6a2	110290: 42	11b246J14	110J9b2J6	110640J64	SF44	d&8
3tC.	: 0a2	JS: S4Jb	JSb: 4J:	JS0: Jb9	JS0S421	SF 9	d&8
Kty&iC.	bJa1	262	2J1	216	2J0	9F90	d&8
LDPo	2S6a1	210bS	2JS21	24496	2JS99	: Fb9	d&8

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	109: 0	1bJbS	1bJbS	1b2J9	1FJ4	d&8
LDPo	2Sba1	b401:	b009:	9S: J6	b06b2	JFJ2	d&8
Lqihqrp	6a1	2JS4: bJ	2JS469b	2204691	22946: 0	SF0:	d&8
RPg. D8qrp	24a2	1S446: Sb	1S: 49692	1S: 10bJ0	1S: S4609	SF: S	d&8
RP. gP. D8D	: : a2	: 494	: 6J1	: 69:	: 6S0	1Fb2	d&8
RQyl oD. r p	94a1	20SS: 44	2bS: 6S4	2b229: 2	2006J60	2FJ9	d&8
RQyl oD. r p	9: a1	4b2S1SS	40: 6b6:	496J661	4b46b0:	2F19	d&8
RQyl oD. r p	96a1	: 10S09:	: 14b92:	: 296SS0	: 2S: 24J	1F: 2	d&8
RQyl oD. r p	90a1	296bJ94	29941J1	JSJ4SS1	299bb42	1F1S	d&8
RQyl oD. r p	9ba1	0006b09	0bS: 9S0	094bbbb	0b4Jb91	1F10	d&8
e DCoyp qrp	1: Sa1	40	: J	2S	4S	44FS9	d&8
e DCoyp qrp	1: Sa2	1S	0	10	11	4: Fb2	d&8
e qdkDu	6Sa2	41J4	4SS0	4220	412J	2F6b	d&8
mhC8&hCtr 8	J1a2	1960J2	1900Sb	196900	1901J9	SF26	d&8
mCiP88qrp	J9a2	601JJ6J	66Sb4: 2	60: b00J	669J: 29	1F1:	d&8
5 hCoqrp	1SJa1	6S20: b2	6S6S: 64	61: JJ6:	6SbS: SJ	1FS0	d&8
5 hCoqrp	1SJa2	2b6S449	29S9911	2bb4J4S	2bb49SS	SFb6	d&8
7 dP. oqrp	4: a1	J9: b406	4S24bJ2	4SS094b	J990Sb6	SFb6	d&8
7 dP. oqrp	4: a2	1J: 1bS	1J4422	1J: 6J4	1J: S0b	SF4:	d&8
7 DuD. qrp	b2a1	11	a	9	:	10: FS0	d&8
7 DuD. qrp	00a2	S	S	S	S	SFSS	d&8
7 DuD. qrp	0ba2	1S	b	1:	11	J2F0b	d&8
7 qqqdC.	2ba1	2bS: 2:	2069S0	200466	20b299	SF0S	d&8
7 qqvDt	1S0a1	2SS	210	260	22b	1: F2J	d&8
7 qqvDt	1S9a1	142	260	160	192	J4F: 1	d&8
7 Coqrp	2Ja2	19b06929	19662S64	1906b4bS	190691: b	SF: 4	d&8
7 itC. iqrp	b6a1	46: 9:	46J44	40941	4696S	1FbJ	d&8
7 itC. iqrp	bba1	4141S6	411S: 1	41Sb: 6	412SS4	SF44	d&8
7 r ufir t	J4a1	222: 1: 6	2249409	22622: J	224: 629	SFb4	d&8
cDtl qrp	1: 9a1	b494299	b9b0992	916J0: S	bbb2S14	JF91	d&8
cDtl qrp	1: 9a2	JbJ41: 1	Jb00126	Jb20: 20	Jb4626b	SF0S	d&8
chPuqrp	2SJa1	14Sb	142:	11: b	1JJ1	11F2J	d&8
chPuqrp	2S: a1	26: 9	J6S9	2b92	JS: J	16F22	d&8
cq	11ba1	24S9	2S60	2b92	24: 6	16Fbb	d&8
cqiP. qrp	40a1	1J0JS22	14J0J44	14J1SSb	141J092	2F: 1	d&8
MtP. qrp	2Jba1	62:	4bJ	: : S	: : J	12Fb2	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2Sv24	TPiPUqpDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	20J	10J	2S0	21b	2JFJb	d&8
YiiDtl qrp	102a1	2:	42	60	44	40F19	d&8
YiiDtl qrp	102a2	22	22	22	22	SFSS	d&8
YiiDtl qrp	106a1	1S92	1210	1242	11bJ	6F09	d&8
YiiDtl qrp	106a2	9J06	9626	949J	949b	1FJ2	d&8
Yiitqrp	b9a1	11Sb229:	1141: 199	11J9J0J6	11290S00	1F6:	d&8
Yiitqrp	b9a2	119bJJS	1212JS6	12S1S64	12SJ9SS	SF62	d&8
Zqd	66a2	2000	2b04	2660	200J	JF0J	d&8
ZqdC. qrp	9Sa1	: : b	40:	0Sb	: b1	2SFJ0	d&8
ZqdC. qrp	91a1	1: b	1JJ	1: b	1: S	9F62	d&8

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LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqqDse Pp Dsw	S1b3 7BFo

mPtPp DiDt	R P88	- m7 1	- m7 2	- m7 J	- m7 R DP.	- m7 5 7 T	M. qi8
ur p q qr p	20a2	Jbbb426	Jb696Jb	Jb0: 2S6	Jb000: 0	SF2:	d&8
. iqp C. y	121a1	9b4bS	1S20: 2	1S41bb	1S1bS0	2F92	d&8
t8D. qpl	0: a2	20S0	200:	204S	204S	1F24	d&8
BPtqr p	1J: a1	211b4	2JS12	22061	22J19	4F44	d&8
BPtqr p	1J0a1	J91bJ	412: :	J9JSb	J991:	2F91	d&8
BDtyuqr p	9a1	24b1b	2: J14	2: 624	2: 2: 2	1F61	d&8
Bq8p r ih	2S9a1	: 694J61	624S: 04	611: J: 2	6S1606J	4F06	d&8
Bq8p r ih	2S9a2	2914112	JSS6bJ4	2946b02	29: : 9J9	1F. 9	d&8
BtCp q D	b1a1	J: 92	J942	J092	J006	4F6:	d&8
- Pop qr p	1Sba1	2942	J110	JS92	JS: S	JF1S	d&8
- Pop qr p	1S6a1	: J1b	: 6: 1	: 64J	: : J0	JF4J	d&8
- Pop qr p	111a1	2J4Sb	24216	2420b	2J960	2FSJ	d&8
- Pudqr p	4Ja1	14201b4	14: : 2b9	1444J90	144229S	SF9b	d&8
- Pudqr p	44a1	22: 6b2: 2	2J1b0024	2J641bJ2	2J1J26SJ	2FJJ	d&8
- Ptl C.	12a1	111bJJbS	11622949	1166J0: b	1149SS29	2FJ2	d&8
- Ptl C.	12a2	14: 40:	14: 0b6	14: 1Jb	14: 466	SF22	d&8
- huCtq D	J: a1	1SJJ411J	12446S2J	1J94411S	1224141:	14Fb2	d&8
- huCtq D	J: a2	11b2S6	12: J91	129: J:	124J00	4F61	d&8
- htCp qr p	: 2a2	: 02S1	: 01bS	: 0bS6	: 0J96	SF62	d&8
- Cl Pui	: 9a2	: J296	: 4S22	: 29Sb	: J4S9	1FS6	d&8
- C&&Dt	6Ja2	: : 6J9	: : 404	: : 264	: : 4: 9	SFJ4	d&8
Ty8&tC8qr p	1: 6a1	2:	: S	b	2b	0: F. 1	d&8
Ty8&tC8qr p	1: 6a2	1J	10	2J	1b	2bF64	d&8
Etl qr p	164a1	92	2:	92	69	: : F4J	d&8
Etl qr p	164a2	J0	20	4J	J6	2JF. b	d&8
GPoCuqqr p	16Sa1	12:	110	bJ	1Sb	2SFJ:	d&8
GPoCuqqr p	16Sa2	12J	1S0	1S0	112	bF. b	d&8
HCup qr p	16: a1	b411122	91: : 2: 4	b66024:	b044: 4S	4FJ2	d&8
HCup qr p	16: a2	J964266	J9906S0	4SSJS0:	J9bbJ16	SF. J	d&8
3 oqr p	11: a1	: bS: 4J4	64: 94J4	61S2S: 0	6122JSb	: FJ:	d&8
3 oqr p	11: a2	9S6b12	9S9104	91: J9J	91S46S	SF49	d&8
3tC.	: 4a2	66S: 120	6619S: 4	60: : 66J	66: 994b	1F2:	d&8
3tC.	: 6a2	12S4440J9	1210S19: S	12J4101: b	121b: 4616	1F22	d&8
3tC.	: 0a2	JS662: 4	JSb: 2b9	J1SJ: 1S	JSb: S1b	SF6S	d&8
Kty&iC.	bJa1	222	2: :	260	24b	9FJ6	d&8
LDPo	2S6a1	12: JJS	1200bS	126949	1266b6	SF9b	d&8

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Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	1S: JJ1	1Sb014	1SbS2S	1S0J: :	1F66	d&8
LDPo	2Sba1	4b400:	: S1S06	: SJ640	496499	2FS6	d&8
Lqihqrp	6a1	221b121	2J1J49J	2249641	226S41b	2F1:	d&8
RPg. D8qrp	24a2	1S: bJ0S6	1S04J46S	1Sb2Sb: 1	1S016SS6	1F1J	d&8
RP. gP. D8D	: : a2	199S1	190bS	19J0J	196b:	1F4S	d&8
RQyl oD. r p	94a1	2066S90	292: b40	2bJb214	2b4JJb6	2Fb1	d&8
RQyl oD. r p	9: a1	4bS9b21	499SbS0	4b: bS: 6	4bb622b	1F92	d&8
RQyl oD. r p	96a1	: 211166	: JJ111J	: Jb99b:	: J1S0: :	1F02	d&8
RQyl oD. r p	90a1	2969: 62	JS0: 1S4	JS0b: 1J	JS41S6S	2FS4	d&8
RQyl oD. r p	9ba1	0bS2J99	0b: 22: 2	099: : 9S	0bbJ41J	1F20	d&8
e DCoyp qrp	1: Sa1	20	4S	2S	29	J: F2:	d&8
e DCoyp qrp	1: Sa2	J	1J	J	0	b6F6:	d&8
e qdkDu	6Sa2	10414	10061	10b21	10666	1F24	d&8
mhC8&hCtr 8	J1a2	2SS429	2SS491	19060S	199: JS	SFb1	d&8
mCiP88qrp	J9a2	0S1J2S9	66: bJ1b	696J1b0	6b0b2Jb	2F09	d&8
5 hCoqrp	1SJa1	: b24691	6224121	6S02J22	6S4SJ0b	JFJ4	d&8
5 hCoqrp	1SJa2	2b6J6b0	29: 1S9:	2b: 026J	2b9S6b2	1Fb1	d&8
7 dP. oqrp	4: a1	Jb9b4: S	410: 242	41449: :	4S02bb2	JF0J	d&8
7 dP. oqrp	4: a2	1J69JJ	1JbS91	1J9bJJ	1Jb2b6	1FS6	d&8
7 DuD. qrp	b2a1	10b1	1692	1604	1016	JFJ:	d&8
7 DuD. qrp	00a2	40	6J	6S	: 0	1: F. 6	d&8
7 DuD. qrp	0ba2	21S	19:	2S2	2S2	JF01	d&8
7 qqqlC.	2ba1	2b: JS0	2b266:	2bb6b1	2b: : : 1	1FS6	d&8
7 qqvDt	1S0a1	12S266	122: 1b	12SJ0J	121S: 2	1FS:	d&8
7 qqvDt	1S9a1	11JSJ1	116666	1169: 4	11: : : S	1Fb9	d&8
7 Coqrp	2Ja2	19060612	19bJ6642	2S1: : bS6	1992SS2S	1FS4	d&8
7 itC. iqrp	b6a1	4b619	4b011	490: 6	49S2b	1F29	d&8
7 itC. iqrp	bba1	4S9b22	42SS: 1	426291	41b021	1F99	d&8
7 r ufir t	J4a1	2JS6Jbb	22b06b0	22044S4	22b949J	SF0S	d&8
cDtl qrp	1: 9a1	b: J44b1	9J6S2: 1	9S09S10	b9912: S	4F60	d&8
cDtl qrp	1: 9a2	J0: JS: 4	Jb90: 6:	Jb99J01	Jb49990	2F1b	d&8
chPuqrp	2SJa1	110: S4	121S01	1211bb	119921	1F0:	d&8
chPuqrp	2S: a1	209100	2b: 4: 6	2bb1b2	2b4202	1F62	d&8
cq	11ba1	2J10	26SS	240:	2464	: F06	d&8
cqiP. qrp	40a1	14JS24J	14b16S4	1: 1S0bb	1404211	2F00	d&8
MtP. qrp	2Jba1	: bJ	: : S	6Sb	: b1	: FS4	d&8

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LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2JvtJ	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	21206	2S969	21b1J	21J: J	2FSS	d&8
YiiDtl qrp	102a1	: b	: S	JJ	40	26F96	d&8
YiiDtl qrp	102a2	2b	10	2b	24	26F64	d&8
YiiDtl qrp	106a1	1110	1192	1110	1142	JF09	d&8
YiiDtl qrp	106a2	9: 1:	969b	1S21:	9bS9	JF0S	d&8
Yiitqrp	b9a1	111116S4	11: bb: S2	11J0: : 4:	11J: b: : S	2F1S	d&8
Yiitqrp	b9a2	12S0: 2:	12: 4404	12Jb6b1	12JJ: 6S	1F94	d&8
Zqd	66a2	0019	0699	066:	0694	SFJ:	d&8
ZqdC. qrp	9Sa1	: 92	660	0JJ	664	1SF6b	d&8
ZqdC. qrp	91a1	1: S	92	1SS	114	20F0S	d&8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S27	T&piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwR&p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
d8be qFdpe	20 2	2S620U2	2S2762U	2S741u6	2S4S2S2	SM0U	Ol l
dFiqe . Fh	121 1	2a441Su	2a6U20a	2a4a777	2aa2USa	SM46	Ol l
dIl pFqO	0a 2	604aa	607a4	6auu6	66uUu	1M71	Ol l
Bwldpe	17a 1	2u40Sa7	2U26171	2u7U026	2u0SU0S	1M60	Ol l
Bwldpe	170 1	4uuuS2a	4UU1172	4U74S6u	4U70042	1M3a	Ol l
Bplh8&pe	U 1	61S442	6107a0	62SUUa	61626a	SM10	Ol l
Bdqe biE	2SU 1	a40a7Sa	aU22212	auU62a0	a064aU2	4M7a	Ol l
Bdqe biE	2SU 2	2u4S10U	2uSSS22	20074a1	2uS4aa1	1M2S	Ol l
Bl. e qFp	u1 1	41a1	42u4	41U2	42SU	1M62	Ol l
3 wne dpe	1Su 1	a1777	a2711	a210u	a1U41	1M32	Ol l
3 wne dpe	1S6 1	0720U	07Uu2	02uSU	077a0	SM1S	Ol l
3 wne dpe	111 1	61U741	67Sa2u	62U06u	626a46	1M3S	Ol l
3 w&Qdpe	47 1	70a10S0	701uuS2	702S61u	707S706	SM4S	Ol l
3 w&Qdpe	44 1	aU2UUSUU	6S1SS474	aU411a70	aU6S76US	SM07	Ol l
3 wlr . F	12 1	24uu121	2a647U6	2aUa1a2	2a4U227	2M16	Ol l
3 wlr . F	12 2	7aSu4	7a706	7a21u	7a226	SM42	Ol l
3 E8 lqFp	7a 1	7401aU4	7204161	7S0S0US	72021u2	6M12	Ol l
3 E8 lqFp	7a 2	2Sa72	1uu7u	10076	1US7a	0M4S	Ol l
3 El. e dpe	a2 2	01u024	01a426	017S14	01a021	SM4S	Ol l
3 . r w8	aU 2	126S72U	12uu116	12a6aSa	126u710	1M76	Ol l
3 . t t pl	67 2	11SSa20S	11S12uUu	1S6ua0ua	1SUS171u	1M01	Ol l
Thl t l. l dpe	1a6 1	610	6aS	a0a	614	6M12	Ol l
Thl t l. l dpe	1a6 2	2u0	70S	720	72u	12M02	Ol l
Glr dpe	164 1	1au	22a	110	160	72M0U	Ol l
Glr dpe	164 2	67	4S	60	a0	2aM04	Ol l
Hwn. &qFdpe	16S 1	660	0SS	660	60u	2M14	Ol l
Hwn. &qFdpe	16S 2	40S	4S7	4a0	447	0M06	Ol l
K. &e dpe	16a 1	0U0U77S	US0S772	US6077S	u0Sa664	0M27	Ol l
K. &e dpe	16a 2	7u06a67	7u0S70a	7U11600	7uu62Sa	SM40	Ol l
&Fndpe	11a 1	aa66001	61u4717	624u014	aUUUU77	6M2u	Ol l
&Fndpe	11a 2	u0uS1a	u6uaSU	u0aSaU	u07u61	SM46	Ol l
&. F	a4 2	u1u7SU4	u70u20a	u744uUU	u7S2SuU	1M26	Ol l
&. F	a6 2	1a1272071	1a1066SSU	1a1u4SUu0	1a1617242	SM22	Ol l
&. F	a0 2	70u4020	7U1077a	7u27u6U	7u41U00	1M00	Ol l
glht i. F	u7 1	2a6	2aU	261	2aU	SM0	Ol l
Lpwn	2S6 1	1217S7a6	1217a444	12Sa06u6	121S0u2U	SM76	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S27	T &piq F:RwO. I:J	1
Twip:A:cœ p:d Oobdpn:J	2S27 S0 12:17J26JSa	TwiwR&p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
Lpwn	2S0 1	1S66UuUU	1S640727	1S76u261	1Sa61u2u	1M4U	Ol l
Lpwn	2Su 1	4u4U2a70	4U1ua0S4	4u6uau10	4u0uuS1U	SM07	Ol l
LqiEdpe	6 1	2112USS	2227U12	222400u	21u01U6	2M04	Ol l
9 wkFpl dpe	24 2	2u2aSU60	20u71aa7	2u71a41U	2u172646	SM07	Ol l
9 wFkwFpl p	aa 2	7u26S77	7041a07	7uSSS44	70uU216	1M14	Ol l
9 . &hr npFbe	U4 1	U64u26S	U611Uaa	UauaUSU	U61a70a	SM17	Ol l
9 . &hr npFbe	Ua 1	170u126U	14116SUa	17Uu4S70	17U6S460	1M21	Ol l
9 . &hr npFbe	U6 1	14U44422	1a76aS62	1aa6S6U6	1a2USS6S	2M36	Ol l
9 . &hr npFbe	U0 1	u674SU1	u66aU20	uu12716	u0S4111	1M3U	Ol l
9 . &hr npFbe	Uu 1	22S2S046	22a0u067	22076021	2244a41S	1M6u	Ol l
mp. nhe dpe	1aS 1	2a7	277	277	24S	4M1	Ol l
mp. nhe dpe	1aS 2	4S	aS	70	42	16M47	Ol l
mqOvp8	6S 2	746S6S	74a0uu	74212u	7446aU	SM04	Ol l
NE. l t E. Ibl	71 2	2S7a6	21S41	21S04	2Su24	1M1a	Ol l
N. iwl l dpe	7U 2	u0ua211	uUS2226	uU4Ua70	uu0uUU2	SM1a	Ol l
y E. ndpe	1S7 1	a47022a	6S622S0	6140a2U	auu272S	6M4U	Ol l
y E. ndpe	1S7 2	2006170	2001700	2001S20	2002u40	SM1S	Ol l
DOwFndpe	4a 1	7010uSU	42S774S	4SaU6Ua	7UU7614	6M2a	Ol l
DOwFndpe	4a 2	174722	176S01	176aSu	17a674	SM1a	Ol l
Dp&pFdpe	u2 1	4aUS1	40172	46uU2	46642	1M4S	Ol l
Dp&pFdpe	00 2	12uS	14aS	14SS	1700	6M7a	Ol l
Dp&pFdpe	0u 2	4u72	4664	4uu7	40U7	2M7U	Ol l
Dq&O F	2u 1	20a0uaSa	204uuS01	20a6UU46	20a4aaSu	SM1u	Ol l
Dq&pl	1S0 1	72u0407	77uUu20	77a06aU	7744Uu6	1M46	Ol l
Dq&pl	1SU 1	71a7u1U	7146SUS	71Uu114	7166SSu	SM1U	Ol l
D. ndpe	27 2	4U600406	4U264477	4U7a016u	4U477S26	SM44	Ol l
Dil. Fidpe	u6 1	1uu7200U	1u6u20Ua	1u6467u6	1u02S6a7	SM47	Ol l
Dil. Fidpe	uu 1	161S2aS66	161674124	1614u01UU	1617u217S	SM2S	Ol l
Db&bl	74 1	a416U4	a4U7aa	a4U242	a46064	SM1S	Ol l
cplr dpe	1aU 1	u774S62	U1S0u40	US72U24	uu24U4a	4M14	Ol l
cplr dpe	1aU 2	7u26U0U	76U7U2U	70u1721	706041S	1M7U	Ol l
cEw&&pe	2S7 1	2uUU101	2U1U6U1	2uau742	2uU24S1	1M3u	Ol l
cEw&&pe	2Sa 1	6u21664	6Ua441u	6UaS62a	6USuUS2	1M3U	Ol l
cqF	11u 1	2S0S4S1	211S164	211a07S	2SUu06a	1M1u	Ol l
cqwFdpe	40 1	76a6S46	70S7726	704aU61	70S1000	1M22	Ol l
5 lwFdpe	27u 1	1SS61007	1S4SU1u2	1S44u616	1S7S6a24	2M30	Ol l

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Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	a1 2	aau667	aa77a4	aaU0u7	aa0266	SM62	Qt l
Yiiplr dpe	102 1	2SS	1U2	160	1u6	UM72	Qt l
Yiiplr dpe	102 2	0u	1S6	U4	U7	1aM1S	Qt l
Yiiplr dpe	106 1	176u7	14S41	14S2a	17U16	1M4a	Qt l
Yiiplr dpe	106 2	146u6	144U2	14u14	14664	1M11	Qt l
Yiildpe	uU 1	1S602u64	1174u211	110a6212	112aUSUa	4M6	Qt l
Yiildpe	uU 2	12112Sa	12SS27a	12S2ua1	12S4064	SM4u	Qt l
ZqFO	66 2	12067S0	120612a	12600S7	120770u	SM7U	Qt l
ZqlQ Fdpe	US 1	44624Uu	4402777	4407616	446U4u2	SM14	Qt l
ZqlQ Fdpe	U1 1	U06427	UU4SuU	1SS2u70	UU1116	1M76	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlu

8 sps b r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
qPmb c omb	2072	4J1	2S2	1yJ	2N4	6- lyN	dDw
q. Tdb C. h	12171	J2y	11SS	1242	1SNJ	14lyl0	dDw
qpwr . dl	0y72	12	y	0	N	4yl$0	dDw
Bspomb	1- y71	2yS	2yN	- SS	26J	JlJ4	dDw
Bspomb	1- 071	- - -	- 0y	y2y	411	24ly-	dDw
Br phPmb	J71	1S6	12S	114	11-	6l$N	dDw
Bowb mlE	2SJ71	yJ1NN12	6y46- 11	6Ny4JS1	644SSSN	0l41	dDw
Bowb mlE	2SJ72	2JJN26S	- SN20N2	- S461- J	- S42- J-	1lJ J	dDw
BpOb c r	N171	- 610	4S- 4	- JyJ	- N0S	yl04	dDw
3 sob omb	1SN71	42	2y	2J	- 2	20l1y	dDw
3 sob omb	1S671	- S60	- 026	4S- 4	- 6SJ	1- l6J	dDw
3 sob omb	11171	41J	4- S	yyS	466	1ylyl2	dDw
3 sPdomb	4- 71	y44	y0y	yJ4	y01	4l42	dDw
3 sPdomb	4471	4y40y	44J42	4y2S0	4y2SN	Slyl J	dDw
3 speC.	1271	21- 0Jy0	21- J12N	21162Jy	21- 1120	Sl6S	dDw
3 speC.	1272	26104	26S1y	26SJJ	26SJ6	Sl-S	dDw
3 EPOpc r	- y71	1y06Sy1	1ySS- N0	14y0Jy4	1y11464	- lJ6	dDw
3 EPOpc r	- y72	JJ2J	Jy62	J1Jy	Jy62	- l0N4	dDw
3 EpOb omb	y272	111S	11SS	1S1-	1S04	4lJy	dDw
3 CesPT	yJ72	10S	yS	6-	J4	6Jl64	dDw
3 CDDr p	6- 72	244S	1y4S	1- 2-	106N	- - lyS	dDw
&hwDpOwomb	1y671	S	N	N	6	N6l6S	dDw
&hwDpOwomb	1y672	S	-	-	2	N6l6S	dDw
Fpeomb	16471	60	60	2y	y-	4ylyN	dDw
Fpeomb	16472	2-	4S	- S	- 1	26lJ0	dDw
GsoOPe omb	16S71	1SS	0y	N-	N6	14l0N	dDw
GsoOPe omb	16S72	1y-	14-	110	1- N	1- l06	dDw
HOPb omb	16y71	N- - N- y4	NJSSy0N	JN- N44J	JS2y0J4	Nl4S	dDw
HOPb omb	16y72	- J61S- -	4S06- 0S	4S46042	4S2NS4N	1l4J	dDw
t. oomb	11y71	6SN44SN	6616NyJ	01N4214	662N4J4	NlJ S	dDw
t. oomb	11y72	JyS- 0-	J0S- N1	J4N- 6y	Jy6- 0-	1l20	dDw
tpC.	y472	1211	6J4	0y6	NN0	- 1l0N-	dDw
tpC.	y672	1N- J0	660y	62JN	1S4y0	6yl0J	dDw
tpC.	y072	460	20N	- 11	- y2	2Nl6y	dDw
KphDTC.	N- 71	21J	24y	244	2- 6	6l2N	dDw
Lr so	2S671	20Jy	2460	21yS	2401	1- l$y	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlu

8 sp sb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Lr so	2S071	1JS6	21- 4	2SSS	2S1-	yl6J	dDw
Lr so	2SN71	J- 6-	J1J6	J1y0	J2- J	1U1N	dDw
LdEomb	671	21JyNN0	2- 0- - 2J	2446NNy	2- - N0S1	ylyl2	dDw
5 sg. r womb	2472	- N1S	y0y	60y	16N0	1SJUS6	dDw
5 s. gs. r wr	yy72	- 1S	120	1y-	1J0	ySUJ6	dDw
5 OPheor . mb	J471	10SS	14SS	1- SN	140S	1- UJ4	dDw
5 OPheor . mb	Jy71	2- 10	21- 4	2106	22SJ	4UJy	dDw
5 OPheor . mb	J671	2060	2110	2- J2	242y	1- U46	dDw
5 OPheor . mb	J071	14N4	11- -	1- yS	1- 22	1- UJ6	dDw
5 OPheor . mb	JN71	- 460	- 1S1	416N	- y0J	1yU16	dDw
ur Cohb omb	1yS71	1-	0	1-	11	- 4U61	dDw
ur Cohb omb	1yS72	S	-	S	1	10- U21	dDw
ud kr P	6S72	0S	0-	0-	02	2U66	dDw
8 EOwDEOpmw	- 172	10y	22y	1J2	1J0	12UJ1	dDw
8 CTswwomb	- J72	144J1	1- - 0-	1- 4y0	1- 004	4lyl2	dDw
9 EOomb	1S- 71	612yN00	6yJS- 40	016- 142	66264yy	0UN4	dDw
9 EOomb	1S- 72	- 1S660N	- 2206y0	- 142- - 1	- 1yNNNJ	1UJ0	dDw
l ds. oomb	4y71	- N- J00S	4260yS0	4y2y422	421SJSS	NU22	dDw
l ds. oomb	4y72	1- JJ4N	14S0Sy	14S610	14S42-	SUJS	dDw
l r P. omb	N271	61	72S	yy	- 2	14SUJ-	dDw
l r P. omb	0072	S	S	S	S	SUSS	dDw
l r P. omb	0N72	11	J	1y	12	26U1J	dDw
l dC.	2N71	1NN62S	1N2140	1N21N1	1N4- 16	2USS2	dDw
l dPr p	1S071	210	2SS	2N-	2- -	1NUJ1	dDw
l dPr p	1SJ71	1N-	1J2	210	1J0	NU0J	dDw
l Oomb	2- 72	400- -	4SJ0y	4S- yS	4- S1J	Jlyl2	dDw
l TpC. Tomb	N671	2210	1yyJ	100y	1NyS	1NU14	dDw
l TpC. Tomb	NN71	11460	1S4N4	12460	1140-	NU64	dDw
l mPmp	- 471	- S24y2	- S1- S4	- S44- 0	- S20- 1	Slyl2	dDw
Ar peomb	1yJ71	N- yJ2Ny	J- 4S124	1SSy60J2	J2y2S60	JU21	dDw
Ar peomb	1yJ72	- N1J- y1	- N6N1- S	- N60- 6-	- Ny161y	SU0-	dDw
AEs Pomb	2S- 71	1y10	1- yN	1- N-	142S	6USS	dDw
AEs Pomb	2Sy71	- - y1	- 4y1	- - 60	- - JS	1UyN	dDw
Ac	11N71	12SN	11N-	14J2	12Jy	1- U2-	dDw
AdS. omb	4071	4yN	yyS	460	4J2	1SUJ1	dDw
Rps. omb	2- N71	0N-	0- -	00y	064	- lyl1	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlb

8spsb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Vs. soomb	y172	yS	4-	1-	- 6	y4UJ4	dDw
YTTr peomb	10271	10	- -	42	- 1	41U66	dDw
YTTr peomb	10272	44	yS	2N	41	2NUJ N	dDw
YTTr peomb	10671	1- SS	11yS	1- 60	1202	NU02	dDw
YTTr peomb	10672	JJ1y	JN01	1S- y4	1SS40	2U66	dDw
YTTpomb	NJ71	1SJJ4N0J	11N26NNy	1- SS- 126	11J416- S	NU4y	dDw
YTTpomb	NJ72	12y1y20	12012Sy	12yy6N2	12yJ401	SUN2	dDw
Zc d	6672	260	10-	14-	1J4	- - USN	dDw
ZqpdC. omb	JS71	02y	60y	1S2y	NSN	2- U42	dDw
ZqpdC. omb	J171	142	1SN	2SN	1y-	- - UJ -	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Aluminium	2572	94-	991	264	913	14.25	cps
Antimony	12171	3- 2	623	43P	336	16.59	cps
Arsenic	5372	3	-	8	5	28.9-	cps
Barium	19371	2P8	215	223	215	9.83	cps
Barium	19571	415	489	999	411	18.28	cps
Beryllium	- 71	12-	- -	83	1P4	21.48	cps
Bismuth	2P- 71	6215331	69993P-	632358-	6938- 3P	2.43	cps
Bismuth	2P- 72	2- P396P	9P92593	9P38513	2- - 8- 95	2.54	cps
Bromine	8171	9526	9- 94	4PP-	98- P	9.58	cps
Cadmium	1P871	15	15	19	13	13.56	cps
Cadmium	1P671	94- 2	9626	9456	9391	2.99	cps
Cadmium	11171	4P8	456	414	499	8.65	cps
Calcium	4971	66-	69P	316	6P3	19.1P	cps
Calcium	4471	44668	449P4	4254P	49- P4	2.99	cps
Carbon	1271	2144- 32	2P- 6535	2P84388	21P8566	1.31	cps
Carbon	1272	26641	23548	2614-	2615-	1.51	cps
Chlorine	9371	- 5P526	- 45328	- 13P89	- 44446	2.- 6	cps
Chlorine	9372	6325	636P	6255	6434	2.4P	cps
Chromium	3272	1195	119P	1149	1195	P.3-	cps
Cobalt	3- 72	- 9	- P	- 5	- 9	9.35	cps
Copper	6972	1435	1945	141P	14P3	9.- 9	cps
Dysprosium	13671	P	8	8	6	86.6P	cps
Dysprosium	13672	9	5	9	4	49.4P	cps
Erbium	16471	38	42	23	42	4P.PP	cps
Erbium	16472	29	1P	29	1-	4P.53	cps
Gadolinium	16P71	38	38	42	39	18.29	cps
Gadolinium	16P72	115	115	1PP	111	8.66	cps
Holmium	16371	- P3961-	88P9936	- 1- 9- 8P	- P16- 83	2.1-	cps
Holmium	16372	96565PP	9- 5829P	9- 86- 9P	988P62P	4.33	cps
Indium	11371	648338-	6448PP3	6596495	6336655	2.9-	cps
Indium	11372	888835	- 99954	- 31231	- 244- 4	9.48	cps
Iron	3472	- 61	1P89	658	- P5	22.- 9	cps
Iron	3672	19114	143P3	19634	19538	3.1P	cps
Iron	3572	944	4PP	9P6	93P	19.36	cps
Krypton	8971	224	225	236	296	5.34	cps
Lead	2P671	213P	2PP6	153P	1- 6-	1P.2-	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9-BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Lead	2P571	2P36	15-3	1352	18P8	19.9-	cps
Lead	2P871	86P1	5-62	6-35	584P	1P.38	cps
Lithium	671	2912511	299285-	29-4614	2946594	1.82	cps
Magnesium	2472	1394	1489	- - 2	1996	22.4P	cps
Manganese	3372	1-P	18P	14P	15P	13.36	cps
Molybdenum	-471	1942	1P38	838	1P86	22.96	cps
Molybdenum	-371	183-	1323	1P-2	14-2	23.55	cps
Molybdenum	-671	1515	1653	11-2	1328	1-.1P	cps
Molybdenum	-571	1115	8-2	853	-61	14.P4	cps
Molybdenum	-871	293-	2P65	2P23	213P	8.43	cps
Neodymium	13P71	P	5	5	4	86.6P	cps
Neodymium	13P72	P	P	P	P	P.PP	cps
Nickel	6P72	8P	65	8P	56	1P.1-	cps
0hosphorus	9172	189	9P8	915	26-	25.52	cps
0otassium	9-72	199-8	19PP6	12364	12- - P	9.21	cps
Rhodium	1P971	6483134	6429161	6544643	633P-86	2.6P	cps
Rhodium	1P972	2854151	9P55949	9P85265	9P12-25	9.- -	cps
Scandium	4371	4911646	42P41-6	494P248	4283969	1.65	cps
Scandium	4372	19411P	14141-	149P38	19-32-	9.41	cps
Selenium	8271	21	1P	799	P	768P9.68	cps
Selenium	5572	5	P	9	9	1PP.P3	cps
Selenium	5872	18	-	13	14	92.59	cps
Silicon	2871	1813-P	158P69	15695P	158654	1.4-	cps
Silver	1P571	142	215	142	165	23.-8	cps
Silver	1P-71	65	1PP	3P	52	93.23	cps
Sodium	2972	96- - 8	95992	96433	96-28	1.2P	cps
Strontium	8671	18PP	2P3P	1289	1511	22.83	cps
Strontium	8871	19PP9	11P53	-431	11156	13.-1	cps
Sulfur	9471	9P3289	9P3895	9P644-	9P3835	P.1-	cps
Terbium	13-71	-1399-6	-194138	-293396	-154969	P.3-	cps
Terbium	13-72	95P513-	9-4386-	9-23555	983-6P2	9.49	cps
Thallium	2P971	1P3P	113P	1P65	1P8-	4.-2	cps
Thallium	2P371	2823	2442	21-2	2486	12.89	cps
Tin	11871	1153	1189	1142	1165	1.8-	cps
Titanium	4571	689	3PP	3P8	364	18.96	cps
Uranium	29871	11PP	599	3PP	558	98.8-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Vanadium	3172	49	4P	69	4-	23.81	cps
Ytterbium	15271	99	53	99	45	3P.- 3	cps
Ytterbium	15272	6	28	22	1-	62.49	cps
Ytterbium	15671	11P8	1123	1399	1236	1- .15	cps
Ytterbium	15672	- P85	- 556	- 6P4	- 48-	9.58	cps
Yttrium	8- 71	12114356	11- 16P44	12285P9-	121P3886	1.39	cps
Yttrium	8- 72	11552P4	12944- -	1261943	122493P	9.31	cps
Zinc	6672	219	165	15P	189	14.2P	cps
Zirconium	- P71	899	53P	323	5P9	22.5P	cps
Zirconium	- 171	89	38	138	1PP	32.P4	cps

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-2	1-21	14-6	1-S2	2M--	dDP
q. Tde C. h	121J1	16 S7	10SS7	1000	1022u	2M0u	dDP
qlPp. cd	0-J2	242	2-7	27S	242	4M06	dDP
Bl lcbe	17-J1	1uuuS	10 0	1u 22	1u- 4	2M10	dDP
Bl lcbe	170J1	7172S	77S4	77141	72-S4	7M16	dDP
BplhNbe	J1	22u1	22S1	22S1	222u	2M30	dDP
BdPe bTE	2S J1	614 S60	641u 7	6702-S1	6717-S2	2M2	dDP
BdPe bTE	2S J2	722u46	7SS16 S	712u10u	711 44-	7M04	dDP
BlCe c p	u1J1	7uu4	76S	4S06	7u-6	6M3	dDP
Fl oe cbe	1SuJ1	10	1-u	1u7	104	0M01	dDP
Fl oe cbe	1S6J1	7010	4160	476u	4Su4	uM1-	dDP
Fl oe cbe	111J1	2--	2-44	27S	240S	-M0u	dDP
Fl Nlcbe	47J1	11u71	11u6u	127S4	12SS1	2M1	dDP
Fl Nlcbe	44J1	22u271	22u6u0	271666	22 -2u	SM11	dDP
Fl lr C.	12J1	22S- u4	21-2S 4	210u 17	210u 0	1M24	dDP
Fl lr C.	12J2	207-	20206	26u42	201-	1M32	dDP
FENCl c p	7-J1	02S01-	0S06 6	6u11S2	0S7101	2M10	dDP
FENCl c p	7-J2	4 -1	46u4	4 S	4u4u	2M6	dDP
FElCe cbe	-2J2	- u1	6S6-	61S-	6S-S	1M34	dDP
FCr l NT	- J2	4- 1	4u01	46u1	4014	7M37	dDP
FCDDpl	67J2	u606	u406	u0-7	u67-	1M66	dDP
&hPDlCPbbe	1-6J1	u	u	u	u	SM3S	dDP
&hPDlCPbbe	1-6J2	0	0	7	6	74M0S	dDP
Ulr cbe	164J1	0-	-u	2-	-7	4uM24	dDP
Ulr cbe	164J2	27	27	20	24	0M1	dDP
Gl oCNl cbe	16SJ1	110	60	0-	u6	71M11	dDP
Gl oCNl cbe	16SJ2	12S	177	170	17S	6M0	dDP
HCNe cbe	16-J1	u07Su0u	14-66u	262 4	S464	7M3	dDP
HCNe cbe	16-J2	416266	7 11 -4	7 6 077	4S140u6	7M20	dDP
t. ocbe	11-J1	6-1107S	660-727	60Su-Su	6671u-4	1M1	dDP
t. ocbe	11-J2	1SSS4-0	20 S7	0762	6077S	7M0	dDP
tlC.	-4J2	27714	244S4	2760S	270 6	2M74	dDP
tlC.	-6J2	4260	421 42	42u6--	42-0	SM11	dDP
tlC.	-0J2	1Su26	11S1S	111uu	11SSu	1M64	dDP
KlhDTC.	u7J1	202	20S	261	26u	2M21	dDP
Lpl o	2S6J1	u4u6	26-	SS7	u 1u	4M44	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0-0-	00uS	06-2	066	1M7-	dDP
Lpl o	2SuJ1	7-714	7-u4u	7-77S	7-4 0	SM-	dDP
LdEdbe	6J1	22uS776	2766-u	2442 71	27672u-	7M4	dDP
9 l g. pPdbe	24J2	20S	1S1--7	6uS-	2S	2M7	dDP
9 l . gl . pPp	--J2	1707	12 0	1767	174-	7M1S	dDP
9 CNr op. be	4J1	10S0u	10-4-	1u1S4	10-06	2M2	dDP
9 CNr op. be	-J1	22-76	216-	2201	227S-	2M4	dDP
9 CNr op. be	6J1	24-40	24464	24622	24-44	SM2	dDP
9 CNr op. be	0J1	12 u	17	17024	17-04	7M1	dDP
9 CNr op. be	uJ1	74SS	7-2-4	7-01-	74 7	2M2	dDP
mpCohe dbe	1-SJ1	2S	S	0		114M-	dDP
mpCohe dbe	1-SJ2	7	S	S	1	107M1	dDP
mdkpN	6SJ2	17-0	1-17	17u0	141	-M6	dDP
3ECPDECIbP	71J2	1-S	2u7	2-S	22u	7SM6	dDP
3CTPPdbe	7 J2	01070	07S00	07144	026-7	1M	dDP
y ECodbe	1S7J1	62 2762	60 46-0	66u 6S	6- 2720	4M2	dDP
y ECodbe	1S7J2	72S-6-6	7S27u2S	7S61-07	7S 0S16	7M1S	dDP
: dl . odbe	4-J1	4S46u-7	424-S 7	474S-	421Su4u	7M6	dDP
: dl . odbe	4-J2	1-1042	17u4	1471--	144466	4M-	dDP
: pNp. dbe	u2J1	001	061	0-2	062	1M7	dDP
: pNp. dbe	00J2	70	7S	2S	2	2 M4	dDP
: pNp. dbe	0uJ2	11	114	1S	114	4M7	dDP
: dNdC.	2uJ1	27-44u	272Su	27774	27762	SM7	dDP
: dNpl	1S0J1	1Su7S	1177S	1147S	111 6	2M0	dDP
: dNpl	1S J1	11S7u	1117u	1Su--	11S1S	1M1	dDP
: Codbe	27J2	2S6604	2S677	2S24u4	2S-166	1M7	dDP
: TC. Tdbe	u6J1	72SS	7260	772-	7264	1M2	dDP
: TC. Tdbe	uuJ1	27062	22-6	276 6	27742	2M0	dDP
: bNbl	74J1	71Su21	7124 -	711uS7	7110S0	SM0	dDP
Apl r dbe	1- J1	uuu1 u	246747	46 07-	1 7-6	7M2	dDP
Apl r dbe	1- J2	4S-4021	70-741	7uu7600	7u 0207	7Mu	dDP
AEl NNdbe	2S7J1	1S117	1S767	u46	1S1S0	2M6	dDP
AEl NNdbe	2S-J1	2-S66	276--	220S4	27uS	4M	dDP
Ac	11uJ1	11 2	11 2	1277	12S6	2M3S	dDP
AdT. dbe	40J1	646u	6047	607-	664	2M7-	dDP
5 ll . dbe	27uJ1	722-S	72 6S	7210-	72462	1M7	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	407	4u7	-07	-1S	SMu	dDP
YTpIr dbe	102J1	2-	-S	60	40	44M1	dDP
YTpIr dbe	102J2	77	11	11	1	6 M2u	dDP
YTpIr dbe	106J1	1410	1460	12SS	1761	1SM1	dDP
YTpIr dbe	106J2	1S2 7	1S16-	1S-01	1S747	2M31	dDP
YTTdbe	u J1	11- 4147	121u --u	12S- 6-	11 400u0	2M62	dDP
YTTdbe	u J2	17u16Su	1227u0	126u 02	12 14u6	6M2	dDP
Zc d	66J2	22 4	2744	2-u4	24S0	6M4	dDP
ZddC. dbe	SJ1	144-u	140-S	1-2-S	14u1	2M3S	dDP
ZddC. dbe	1J1	7460	7442	7-S1	740S	SM4	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T:J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T:J	y h SMs6	T dpiqC. :M OCI:J	1
TI ip:A:cqe p:dOobdpn:J	2S2- S0 12:1- J- aJ7s	TI il Mdp:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	17s1	1722	1726	1740	2R7S	OI P
d. iqe C. E	121 1	s- -	a- -	s60	s11	0R62	OI P
dIPp. qO	07 2	21	- 1	2a	20	1sR24	OI P
BI dpe	1- 7 1	207s6	2a- - S	2a4as	2a1- a	1R6s	OI P
BI dpe	1- 0 1	71S- s	4s- a-	7S40S	7S2s0	1R60	OI P
BpIENpe	s 1	162	16S	177	17s	2R4S	OI P
BqPe biG	2Ss 1	7a00s44	6S- 12- 2	6176S64	6S21040	2R 1	OI P
BqPe biG	2Ss 2	- S200a0	2aa2- 70	2ss666-	2s6as- 6	2R7a	OI P
BIOe q p	a1 1	1766a	1a446	21460	1a720	17R66	OI P
9 I ne dpe	1Sa 1	10	- -	10	22	4- R2a	OI P
9 I ne dpe	1S6 1	- - - 4	- 742	- 4Ss	- 42a	- RSa	OI P
9 I ne dpe	111 1	- 6-	- 0-	- 01	- 6s	1R 2	OI P
9 I NOdpe	4- 1	2S0asa	212sS4	21211s	21Ss04	1R2a	OI P
9 I NOdpe	44 1	- 7SS0s6	- 7s- 746	- 7- Sa1s	- 74102S	1R 4	OI P
9 I Ir C.	12 1	2a710aS	- 1s6s7S	- 4724- 2	- 160S74	sR72	OI P
9 I Ir C.	12 2	4011a	4s66S	711S6	4s2s4	4R1S	OI P
9 GNOIq p	- 7 1	0S6- a1	0Ss4S6	02- a44	01- 21S	1R 1	OI P
9 GNOIq p	- 7 2	7771	7Sa4	7S71	722s	7R 7	OI P
9 GIOe dpe	72 2	0272	01- 7	0S72	0146	1R41	OI P
9 OrI Nl	7s 2	06S	040	670	021	0R0s	OI P
9 Ot t pI	6- 2	22- S	24a4	220S	2- 2a	7Ra7	OI P
TEPt IOPdpe	176 1	260	- SS	207	2a1	6R1a	OI P
TEPt IOPdpe	176 2	11-	12-	1S0	114	0R -	OI P
UIr dpe	164 1	27S	- 10	27S	202	14R14	OI P
UIr dpe	164 2	12S	110	11S	116	4R41	OI P
HI nONq dpe	16S 1	- SS	- Sa	- 7S	- 1s	aR s	OI P
HI nONq dpe	16S 2	210	27S	20S	246	1SR30	OI P
h ONe dpe	167 1	a- ass00	a7asss2	aa7S740	a61S102	2R6a	OI P
h ONe dpe	167 2	- a6- 74S	- 0- 4076	- a- 20- S	- a1S- 42	1R06	OI P
& ndpe	117 1	6- 46461	641s106	647s1a7	64Sa204	SRas	OI P
& ndpe	117 2	s- s7S0	aa026-	s11S26	s127ss	2Ra0	OI P
&C.	74 2	226S2	226sS	22- S0	227- -	SRas	OI P
&C.	76 2	4S7- 46	41- 604	4S4Ssa	4S00S6	1R2a	OI P
&C.	70 2	1Ss21	1Sa6S	1S0a2	1Sa74	SR64	OI P
KIEt iC.	a- 1	24S	227	261	242	0R7-	OI P
LpI n	2S6 1	24- 4	242a	2610	24s-	4R 1	OI P

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Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T :J	y h SMs6	T dpiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J- aJ7s	TI il Mdp:mI e p:J	S2- d F UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
LpI n	2S0 1	21S6	222a	2Ss7	214-	- R47	Q P
LpI n	2Sa 1	s0S2	1S2- 7	sa6a	ss- 7	2R07	Q P
LqGdpe	6 1	224SS11	24S6- Ss	2206s77	2- S007a	- R0a	Q P
y I g. pPdpe	24 2	- 240- 4	- - S011	- 22s74	- 261- -	1R27	Q P
y I . gI . pPp	77 2	sS16	ass-	aaS-	as- 0	1R 1	Q P
y CNEr np. be	s4 1	277S	2- 07	27a4	27S-	4R40	Q P
y CNEr np. be	s7 1	- 4s2	- 67s	- - 42	- 4sa	4R7-	Q P
y CNEr np. be	s6 1	4S42	- s42	- 060	- s10	- R77	Q P
y CNEr np. be	s0 1	27SS	2227	24Ss	2- 0a	7Ras	Q P
y CNEr np. be	sa 1	771S	7- s-	7706	74s-	1R6s	Q P
mpOnEe dpe	17S 1	720	740	4s-	722	7R16	Q P
mpOnEe dpe	17S 2	10S	10S	170	166	4R67	Q P
mqOkpN	6S 2	1160	1- - -	12- 0	1246	6R02	Q P
uGCPt GCIbP	- 1 2	- SS	27S	2a-	20a	sR16	Q P
uCIl PPdpe	- s 2	1- S1S1	1- 140a	120a46	12saSa	1R41	Q P
F GCndpe	1S- 1	6117062	62aasS7	6- 02766	627sS00	2RSs	Q P
F GCndpe	1S- 2	- S20007	2s41- ss	- S4212a	- SS- 060	1Ra1	Q P
DCI . ndpe	47 1	4S222Sa	4S04s0a	4S042- 7	4S7014S	SR07	Q P
DCI . ndpe	47 2	14S07-	1- 4- 02	1- 6S4S	1- 0S77	2R41	Q P
DpNp. dpe	a2 1	a	0a	6	- S	1- 4RS0	Q P
DpNp. dpe	00 2	S	0	S	2	10- R21	Q P
DpNp. dpe	0a 2	1s	2a	21	2-	2SRa7	Q P
DqNDC.	2a 1	1SaS4SS1	11477Ssa	111a72- 6	1114a112	2R3-	Q P
DqNpI	1S0 1	1Sa	a-	127	1S6	1sRa6	Q P
DqNpI	1Ss 1	110	110	60	1SS	2aRa0	Q P
DCndpe	2- 2	217s642	2166a6s	21Sssaa	21477SS	1R44	Q P
DiIC. idpe	a6 1	sa0S0	1S7714	ss7a0	1S126s	- R36	Q P
DiIC. idpe	aa 1	a61a76	aaaS6-	aa421s	a0aS46	1R61	Q P
DbNbI	- 4 1	4S266-	4S2761	4S6141	4S- 0aa	SR7S	Q P
cpIr dpe	17s 1	a71S1a-	aa- s72-	sSas64-	aa1- 116	- R S	Q P
cpIr dpe	17s 2	- a72474	- 046- s-	- aS4asa	- aS124s	1R4S	Q P
cGI Ndpe	2S- 1	6s2	77S	6s2	644	12R6s	Q P
cGI Ndpe	2S7 1	12s2	1160	1S07	110a	sR2-	Q P
cq	11a 1	22s2	2- Ss	1s7s	21a6	sRS-	Q P
cqI . dpe	40 1	060	s42	aSS	a- 6	11R1	Q P
5 II . dpe	2- a 1	1s- 2-	2S0S1	1sa- -	1ss72	- R4s	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nb. i:DI e t Nb:&T :J	y h SMs6	T dbiqC. :M I OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:1- J- aJ7s	TI il MdbI:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	47-	770	4sS	7SS	1SR4a	Qt P
Yiiplr dpe	102 1	17a	110	1- -	1- 6	17R41	Qt P
Yiiplr dpe	102 2	1S6	61	as	a7	26R 6	Qt P
Yiiplr dpe	106 1	147S	127S	1210	1- S6	sR30	Qt P
Yiiplr dpe	106 2	sa- 2	s7sa	s6s-	s0S0	1R21	Qt P
Yiild pe	as 1	112sa676	1147S110	11761414	114- 602s	1R17	Qt P
Yiild pe	as 2	1241as2	1166a47	12Ss707	12S61S4	- R12	Qt P
Zq O	66 2	4414	4- s0	4S- 0	42a-	4R30	Qt P
ZdOC. dpe	sS 1	12Sa	1427	107s	1464	1aR3-	Qt P
ZdOC. dpe	s1 1	1a-	260	- s2	2a1	- 0R a	Qt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	21Sh	2Sa1	2S24	2S01	2M8h	dDl
qCTb nCE	121 1	610	6h2	67S	67-	7M06	dDl
qpl r Ccl	07 2	60	74	7a	6S	11M16	dDl
Bwpcmb	1- 7 1	4h710	714S0	7221S	71S47	2M01	dDl
Bwpcmb	1- 0 1	a660a	ah71-	hS26a	aaa1h	2M1-	dDl
Br pE8mb	h 1	212	2- 1	21h	221	4M2	dDl
Bdl b mTG	2Sh 1	6- h- haS	620a- 74	644h6S4	6- 0- h0h	1M0	dDl
Bdl b mTG	2Sh 2	- SS147-	- - - h12h	- Sa14a1	- 14S6aa	7M02	dDl
Bpmb cCr	a1 1	2707a	- 1- 61	- 0h44	- 16aa	1hM27	dDl
5 wob cmb	1Sa 1	h2	- -	a-	6h	47M44	dDl
5 wob cmb	1S6 1	- 7a4	- 710	- 7S1	- 7- 4	1M27	dDl
5 wob cmb	111 1	- a6	- h1	- 0h	- a7	1M72	dDl
5 w8lcmb	4- 1	4211h0	4- 6h02	44661S	4- 4h26	2M17	dDl
5 w8lcmb	44 1	0- 1660h	026SS7a	0717a10	0- 641a7	1M42	dDl
5 wpenC	12 1	4Sa2762	477ah74	407721a	446770a	0M07	dDl
5 wpenC	12 2	67S20	60067	67h4a	66240	2M1S	dDl
5 G8mpCr	- 7 1	6a27h4	0SS207	0211- S	0S1- - -	2M07	dDl
5 G8mpCr	- 7 2	7- 6S	7006	7- 7h	74ha	4Ma	dDl
5 Gpmb cmb	72 2	4S- 0	4SS0	- 0h4	- h46	- M6	dDl
5 new8T	7h 2	17S-	1700	164S	170-	4M7	dDl
5 nDDr p	6- 2	264S	27S0	20a4	2644	7M4-	dDl
&El Dpnl cmb	176 1	- 07	207	- 42	- - 1	17M4S	dDl
&El Dpnl cmb	176 2	100	14S	14-	17-	1- M42	dDl
Fpecmb	164 1	- a-	442	4a-	4- 6	11M72	dDl
Fpecmb	164 2	16S	120	220	101	2hM06	dDl
Hwon8Cmb	16S 1	- h2	- 60	47S	4S-	1SM02	dDl
Hwon8Cmb	16S 2	2hS	260	200	20a	4M42	dDl
y n8b cmb	167 1	hS7741S	ahh4- a1	hS22SS2	hS2- h- 1	SM4	dDl
y n8b cmb	167 2	- h- a- 6h	4- 0a- S0	4S6- S01	41267a2	7M4h	dDl
tCocmb	117 1	6711014	6740a- 1	64- 16- h	64h0S61	SM42	dDl
tCocmb	117 2	h1- a1-	1S- - - 22	h64044	h0S626	6M1a	dDl
tpnC	74 2	6Sa- 7	7hS11	700- h	7h1h7	2M0-	dDl
tpnC	76 2	1Sa- 2ha	1S014S2	1S004- a	1S00- aS	SM77	dDl
tpnC	70 2	20a20	2aa1a	2ah04	2a74S	2M1a	dDl
KpEDTnC	a- 1	242	214	24S	2- 2	6M46	dDl
Lr wo	2S6 1	2- 76	2711	2476	2441	- M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :uwb r :J	S24q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	2S76	1hah	1aah	1h0a	4M24	dDl
Lr wo	2Sa 1	h7- 7	h61-	h1h6	h44a	2M7	dDl
LdTGmb	6 1	2- SS- 40	2- Sh- a-	22hh6hS	2- S- 14S	SM24	dDl
9 wgCr l mb	24 2	a- h7- a	a44441	a- 6020	a4S2- 7	SM46	dDl
9 wCgwCr l r	77 2	40- 0a	407S2	40066	4074h	SM42	dDl
9 n8Eeor Cmb	h4 1	1S- 21	1S674	1S20h	1S41a	1M10	dDl
9 n8Eeor Cmb	h7 1	104- 6	1aS74	10a2S	1000S	1M07	dDl
9 n8Eeor Cmb	h6 1	1ah40	1hS- h	1h7a1	1h1ah	1M0h	dDl
9 n8Eeor Cmb	h0 1	1S0- a	1S646	117aa	1Shh1	4M0-	dDl
9 n8Eeor Cmb	ha 1	20- 1h	2a246	2a2aa	20h71	1M16	dDl
ur noEb cmb	17S 1	62S	62S	7a0	6Sh	- M16	dDl
ur noEb cmb	17S 2	160	160	1hS	104	0M02	dDl
ucdkr 8	6S 2	67S	0- 0	64-	600	0M0S	dDl
NGhl DGhpml	- 1 2	1h2	- SS	47a	- 10	42M7	dDl
NnTwl l cmb	- h 2	21a4aS	2107hh	21aa16	21a2hh	SM2h	dDl
. Ghocmb	1S- 1	6446ha7	64S2- 14	6- h66- 1	6417- 1S	SM4-	dDl
. Ghocmb	1S- 2	2ha- 7a1	- - 0hS70	- S00- 61	- 146666	6M10	dDl
l dwCocmb	47 1	412S40h	4217a- 1	41742S4	416- 7S7	1M16	dDl
l dwCocmb	47 2	14SS16	174S1h	146S4a	1466h4	4M0h	dDl
l r 8 Ccmb	a2 1	41	76	0-	70	20M7a	dDl
l r 8 Ccmb	00 2	-	S	0	-	1SSM37	dDl
l r 8 Ccmb	0a 2	2-	17	20	22	2aM2S	dDl
l 8dnC	2a 1	107- a60-	1a- - a20-	10074411	10a0011h	2M1	dDl
l 8vr p	1S0 1	1Sa	7S	127	h4	41M0S	dDl
l 8vr p	1Sh 1	110	- -	h2	a1	7- M3h	dDl
l nocmb	2- 2	4- - 4a2S	420044S	4Sh1040	42- 466h	- M3S	dDl
l TpmCTcmb	a6 1	2711h2	2611- 4	261744	270h70	2M20	dDl
l TpmCTcmb	aa 1	226S204	2- 74- 7S	2- aa46h	2- - 4- 64	2M44	dDl
l m8mp	- 4 1	671471	6644S-	661Sa6	67ahaS	1M32	dDl
Ar pecmb	17h 1	h1h61- 4	ahaah16	h2- 40h-	h1- hh4a	1M47	dDl
Ar pecmb	17h 2	- a441- -	421244-	- ah44Sa	- ha- 661	7M31	dDl
AGw8mb	2S- 1	7- -	47a	77a	710	1SM30	dDl
AGw8mb	2S7 1	1442	1210	1- - -	1- - 1	aM46	dDl
AdC	11a 1	22SS	24SS	2442	2- 4a	7M7S	dDl
AdTwCcmb	40 1	1S07	a42	a7S	h22	14M7	dDl
RpwCcmb	2- a 1	424S7	4- 1S0	4- 216	42hSh	1M3-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	71 2	47-	44-	40-	470	- M7	dDl
YTTr pecmb	102 1	127	17a	227	16h	- SN87	dDl
YTTr pecmb	102 2	110	a-	122	1S0	1hM7a	dDl
YTTr pecmb	106 1	147a	1410	1- 7S	14Sa	- Nda	dDl
YTTr pecmb	106 2	1SS17	11177	1SS4h	1S4S6	6M2-	dDl
YTTpcmb	ah 1	117h6217	11- a2Sh2	11ha0100	11677161	2M4-	dDl
YTTpcmb	ah 2	12- S777	141a4a7	1- - - S1-	1- 20- 71	0N8h	dDl
ZdCd	66 2	11607	116S7	12117	110ha	2M7	dDl
ZqpdnCcmb	hS 1	17Sh	1710	1- 7S	147a	6M44	dDl
ZqpdnCcmb	h1 1	2h2	1a-	242	2- h	22N0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1h22	1h- S	1hS7	1h1h	SM60	dDl
qCTb nCE	121 1	0- -	a42	77S	0Sa	2SM41	dDl
qpl r Ccl	07 2	01	76	61	6-	12M1h	dDl
Bwpcmb	1- 7 1	72171	72h62	71122	72S0h	1M00	dDl
Bwpcmb	1- 0 1	ahSa7	h20- 4	h2S02	h12h0	2M1-	dDl
Br pE8mb	h 1	1a0	1h6	1a1	1aa	4M8S	dDl
Bdl b mTG	2Sh 1	610424S	7a617S0	62a702-	61S0170	- M0S	dDl
Bdl b mTG	2Sh 2	2hh7461	- S46SaS	- SS16- S	- S14- hS	SM12	dDl
Bpmb cCr	a1 1	2a0- a	- 644S	- h617	- 4h- 1	16M81	dDl
5 wob cmb	1Sa 1	07	7S	60	64	1hM12	dDl
5 wob cmb	1S6 1	- 7S1	- 206	- 706	- 471	4M7-	dDl
5 wob cmb	111 1	- 6S	- a4	- a6	- 00	- M44	dDl
5 w8lcmb	4- 1	4- ShS1	4- h700	44612-	4- aa60	1M04	dDl
5 w8lcmb	44 1	0166h12	04a4h61	07S1- S6	0- a4- h-	2M77	dDl
5 wpenC	12 1	416S417	474h7h2	4a6a002	472626S	0M44	dDl
5 wpenC	12 2	64410	6a74-	6h724	604h4	4M82	dDl
5 G8hpcCr	- 7 1	6744hh	602S02	6h447a	60- 606	2M10	dDl
5 G8hpcCr	- 7 2	4ah-	4h26	7471	7ShS	6M16	dDl
5 Gpmb cmb	72 2	- a24	4S40	- a71	- hS0	- M12	dDl
5 new8T	7h 2	16- S	1010	144-	17h0	aM07	dDl
5 nDDr p	6- 2	2- 44	2- 0S	24- S	2- a1	1M46	dDl
&El Dpnl cmb	176 1	2a-	207	227	261	12M8a	dDl
&El Dpnl cmb	176 2	100	16-	14-	161	1SM41	dDl
Fpecmb	164 1	- 7S	260	- 27	- 14	1- M02	dDl
Fpecmb	164 2	14-	1aS	14S	174	14M0	dDl
Hwon8Ccmb	16S 1	- - -	- h2	460	- h0	16M4-	dDl
Hwon8Ccmb	16S 2	2hS	2- -	2- 0	27-	12M77	dDl
y n8b cmb	167 1	aa- 4070	a- 47710	h2- - - 7a	aaS4744	7M87	dDl
y n8b cmb	167 2	- ha721-	4S40166	- h6- 04h	- hha0Sh	1M8a	dDl
tCocmb	117 1	671aSh0	61aS7S7	6710417	64S7- - h	- M84	dDl
tCocmb	117 2	h- h7h1	h27- 01	h26S- -	h- S- - 2	SM46	dDl
tpnC	74 2	7- 7a4	77h- 2	7720h	74h- 1	2M21	dDl
tpnC	76 2	1SSa7- 6	1S224S0	1SS2h16	1S112a0	SM1h	dDl
tpnC	70 2	26- 7a	26- 72	26- 6-	26- 7a	SM82	dDl
KpEDTnC	a- 1	241	220	2- h	2- 6	- M11	dDl
Lr wo	2S6 1	2Sah	2210	2S60	2124	- M41	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :uwb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1047	1676	10SS	10SS	2M61	dDl
Lr wo	2Sa 1	0h0h	a271	0a2h	aS2S	2M60	dDl
LdTGmb	6 1	2- - 077-	210hh06	2- 0041h	22ha- 16	4M74	dDl
9 wgCr l mb	24 2	a476S1	a460a-	a72h04	a4a47-	SM40	dDl
9 wCgwCr l r	77 2	40Sa0	4a4- h	4014a	4077a	1M61	dDl
9 n8Eeor Cmb	h4 1	1SS- 0	haa0	1S7h6	1S10-	- M60	dDl
9 n8Eeor Cmb	h7 1	101- 6	10S61	1a162	1047-	- M7-	dDl
9 n8Eeor Cmb	h6 1	1a66-	1h1ah	1a0aa	1aaaS	1M47	dDl
9 n8Eeor Cmb	h0 1	1S6- a	1Sa01	1S- - 0	1S617	2M72	dDl
9 n8Eeor Cmb	ha 1	2a- 6-	2a6- h	20261	2aSaa	2M6S	dDl
u r noEb cmb	17S 1	61-	760	6aS	62S	hM1h	dDl
u r noEb cmb	17S 2	100	100	1hS	1a1	4M27	dDl
u cdkr 8	6S 2	67-	0- 0	7hS	66S	11M17	dDl
NGhl DGhpml	- 1 2	2- -	210	2a-	244	14M1h	dDl
NnTwl mb	- h 2	2164h4	210aa1	214a04	216416	SM0S	dDl
. Ghocmb	1S- 1	64SS00-	6S160ha	640a461	62ha60a	- M12	dDl
. Ghocmb	1S- 2	- S- 7004	2h02- 44	- S24S- S	- S1S016	1M12	dDl
l dwCocmb	47 1	41S4- 11	- ah- S6S	42- - 641	4S00SS4	4M22	dDl
l dwCocmb	47 2	1- h1- S	14S0h6	1- h- 0a	1- h06a	SM04	dDl
l r 8 Cmb	a2 1	7a	ah	110	aa	- 4M1-	dDl
l r 8 Cmb	00 2	S	1S	1S	0	a6M0S	dDl
l r 8 Cmb	0a 2	10	1a	26	2S	24M26	dDl
l 8dnC	2a 1	1046- S4h	100S07S0	10704104	107a1700	SM0S	dDl
l 8vr p	1S0 1	7a	a-	127	ah	- 0M1h	dDl
l 8vr p	1Sh 1	7S	60	42	7-	24M12	dDl
l nocmb	2- 2	42- 0- - 1	4242h66	42h4a77	427a- a4	SM04	dDl
l TpnCTmb	a6 1	27- 2- 4	27ha02	27hh- 4	2706aS	1M4h	dDl
l TpnCTmb	aa 1	220ah- S	2- 61ah4	24S616h	2- 4ahh0	2M07	dDl
l m8mp	- 4 1	6407- S	674274	674a6S	672217	SM62	dDl
Ar pecmb	17h 1	aa0002a	a47- h- 6	h1a- a7h	aa- a7Sa	4M17	dDl
Ar pecmb	17h 2	- ah10S0	- a0h7- 7	- hS1- 0h	- ahSa0-	SM2a	dDl
AGw8mb	2S- 1	442	- Sa	727	427	27M02	dDl
AGw8mb	2S7 1	a- -	h42	a42	a02	6M11	dDl
AdC	11a 1	2S42	1a60	1h7h	1h76	4M4a	dDl
AdTwCmb	40 1	a10	0h2	007	0h4	2M64	dDl
RpwCmb	2- a 1	412S1	4216-	42- 64	41hSh	1M4a	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	71 2	70-	- aS	4SS	471	2- M0	dDI
YTTr peomb	102 1	1a-	2Sa	1h2	1h4	6M7	dDI
YTTr peomb	102 2	60	111	h4	h1	24M4	dDI
YTTr peomb	106 1	1- - -	1260	14h2	1- 64	aM0	dDI
YTTr peomb	106 2	1S- 74	1S421	1S101	1S- 17	1M6	dDI
YTTpomb	ah 1	1162- S41	11SS6074	11aahSaa	117S62h4	- M-	dDI
YTTpomb	ah 2	1270S0S	12- a- 07	122a016	1241- a0	1M6	dDI
ZdCd	66 2	112h7	1176a	117- 1	11467	1MS	dDI
ZqpdnComb	hS 1	11SS	1S7S	1S60	1S02	2M0	dDI
ZqpdnComb	h1 1	242	210	2- -	2- 1	7M2	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Aluminium	23X2	436	022	02O	0O6	0.14	cps
Antimony	121X1	10O	130	242	189	20.O9	cps
Arsenic	30X2	10	11	11	12	18.32	cps
Barium	1- 0X1	1O3- 8	1O046	11- O0	1O86-	- .6-	cps
Barium	1- 3X1	186O0	180- 8	1904O	18894	2.96	cps
Beryllium	9X1	80	80	89	86	2.01	cps
Bismuth	2O9X1	60- 3094	601344-	60- O1O8	6028- 82	O.16	cps
Bismuth	2O9X2	- 1- - 894	- 24O849	- O98- 34	- 103632	2.- 0	cps
Bromine	81X1	14920	16236	1094-	10310	4.48	cps
Cadmium	1O8X1	04	- -	31	0-	- 0.6O	cps
Cadmium	1O6X1	- 392	- 836	- 809	- 842	1.10	cps
Cadmium	111X1	- 04	- 9-	- 3O	- 32	0.- 0	cps
Calcium	4- X1	9O- 3O	91O91	91031	91O1O	O.66	cps
Calcium	44X1	1039029	1089636	161- 01O	10942- 9	1.O9	cps
Carbon	12X1	- O003- 1	- 14- 232	- 121- O2	- 1O6368	1.43	cps
Carbon	12X2	4O3O3	- 9O19	- 8068	- 94- 1	2.86	cps
Chlorine	- 0X1	483029	438300	434233	48O183	1.4O	cps
Chlorine	- 0X2	- 9O9	- - 13	- 436	- 063	8.09	cps
Chromium	02X2	16- O	133-	132-	13O9	4.26	cps
Cobalt	09X2	- 3-	- OO	4O-	- 09	14.81	cps
Copper	6- X2	1O9O	1213	126-	119O	3.04	cps
Dysprosium	106X1	1O8	63	92	89	2- .09	cps
Dysprosium	106X2	- -	13	4O	- O	4O.O0	cps
Erbium	164X1	18-	130	120	161	19.08	cps
Erbium	164X2	4-	0O	6O	01	16.42	cps
Gadolinium	16OX1	142	30	108	120	- 0.28	cps
Gadolinium	16OX2	16-	18O	13O	131	4.9O	cps
Holmium	160X1	9- 40643	918- 938	92O899-	92462O6	O.94	cps
Holmium	160X2	41430O4	4148- 13	414- 3- 6	4146019	O.O6	cps
Indium	110X1	68169OO	68O0O- 6	681O69-	681O836	O.O9	cps
Indium	110X2	9866- 4	968831	932640	936O0O	O.96	cps
Iron	04X2	11900	12O00	12189	12O66	O.93	cps
Iron	06X2	214O80	21938O	21- 6O3	210824	1.09	cps
Iron	03X2	0824	6- 46	0368	0939	0.- -	cps
Krypton	8- X1	204	26O	23O	261	- .14	cps
Lead	2O6X1	1O90	11- 9	1122	1119	2.O1	cps

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LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Lead	2O3X1	8O6	9OO	8O6	8- 3	6.01	cps
Lead	2O8X1	42O6	4O2-	4O89	41O6	2.26	cps
Lithium	6X1	241- 092	2- 01- 88	2- 841O3	2- 8- O29	1.- 1	cps
Magnesium	24X2	1348O2	1369- 4	1693O9	13- 810	2.14	cps
Manganese	00X2	988O	93- -	949O	93O1	2.O-	cps
Molybdenum	94X1	20- 4	240O	2192	2- 92	3.40	cps
Molybdenum	90X1	- 242	- - O9	- 6O9	- - 83	0.33	cps
Molybdenum	96X1	- 392	- 926	4- O1	4OO6	6.08	cps
Molybdenum	93X1	2163	22- 4	200O	2- 13	8.84	cps
Molybdenum	98X1	0626	06- 0	61- 0	0399	0.O2	cps
Neodymium	10OX1	83	1O3	14O	111	24.20	cps
Neodymium	10OX2	4-	4O	0-	46	10.2-	cps
Nickel	6OX2	193	103	2O-	186	1- .6O	cps
Phosphorus	- 1X2	220	192	2O8	2O8	8.OO	cps
Potassium	- 9X2	0- 826	04244	02039	0- 00O	1.62	cps
Rhodium	1O- X1	6692699	6636- 04	631O688	669- 243	O.26	cps
Rhodium	1O- X2	- 200- 29	- 21- 93O	- 14- 8- 6	- 2O4- 38	1.36	cps
Scandium	40X1	4- 8- O12	42- 46O9	42O1003	423- O6O	2.26	cps
Scandium	40X2	1449O-	146O64	143O30	146O14	O.34	cps
Selenium	82X1	41	X16	X4	3	426.90	cps
Selenium	33X2	O	O	O	O	O.OO	cps
Selenium	38X2	19	10	10	16	14.14	cps
Silicon	28X1	- 3- 0016	- 398168	- 833433	- 8O- 32O	1.83	cps
Silver	1O3X1	1O8	08	120	93	- 0.69	cps
Silver	1O9X1	42	42	13	- -	4- .- O	cps
Sodium	2- X2	89- 644	886199	88- 202	883698	O.6O	cps
Strontium	86X1	048O8	0- 428	04- 81	042O6	1.- O	cps
Strontium	88X1	409- 98	46183-	408911	46OO61	O.- 0	cps
Sulfur	- 4X1	- 660- 9	- 60868	- 6628O	- 66229	O.O9	cps
Terbium	109X1	9409182	9299123	928841O	9- 489O6	1.O2	cps
Terbium	109X2	41212- 3	- 99- 3- 0	- 933012	4O- O828	1.90	cps
Thallium	2O- X1	292	- 20	- 8-	- - -	1- .92	cps
Thallium	2O0X1	80O	330	313	381	8.06	cps
Tin	118X1	1692	1420	14O8	10O8	1O.04	cps
Titanium	43X1	292	230	- OO	289	4.41	cps
Uranium	2- 8X1	8038	862O	88O-	8663	1.- 8	cps

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LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Vanadium	01X2	1O3	1O3	8O	98	10.30	cps
Ytterbium	132X1	1- -	63	30	92	- 9.6-	cps
Ytterbium	132X2	44	0O	06	0O	11.11	cps
Ytterbium	136X1	1142	1263	1- 42	120O	8.O3	cps
Ytterbium	136X2	1O136	1O604	1O- 99	1O41O	2.- O	cps
Yttrium	89X1	12- O0822	1186991O	12O8O- 0O	12O80- 61	1.8O	cps
Yttrium	89X2	1- O2- 43	1292640	12361- 4	129O- 30	1.O-	cps
Zinc	66X2	260O	232O	2093	2606	2.- -	cps
Zirconium	9OX1	40O	60O	030	008	18.1O	cps
Zirconium	91X1	92	1O8	92	93	9.9O	cps

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :u wb r :J	S20q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	h24S6	h2046	h2h60	h20S6	SM1S	dDl
qCTb nCE	121 1	7S40S7	717- 21	726h76	71766S	2M16	dDl
qpl r Ccl	07 2	7776	766S	774a	77aa	1M12	dDl
Bwpcmb	1- 7 1	27a1012	26616hS	270Sa02	26S407a	1M1S	dDl
Bwpcmb	1- 0 1	4- hh67a	446ah- -	4441h7a	44- 6a4h	SM0h	dDl
Br pE8&mb	h 1	0S- - 7	0- a- h	0- - 60	02714	2M62	dDl
Bdl b mTG	2Sh 1	622077a	6- 72h76	62- 720a	6201h- 1	1M12	dDl
Bdl b mTG	2Sh 2	2hhaa12	- S616h1	- S76h21	- S- h141	1M17	dDl
Bpmb cCr	a1 1	277h1	- 1244	- 4a44	- S77h	17M26	dDl
5 wob cmb	1Sa 1	4171	4640	46h0	44ha	6M01	dDl
5 wob cmb	1S6 1	h212	h- 47	h70S	h- 06	1M1-	dDl
5 wob cmb	111 1	64- 46	6466h	6- 7h-	642S-	SM46	dDl
5 w8lcmb	4- 1	4264h-	4- h70S	441026	4- 7h- S	1M4h	dDl
5 w8lcmb	44 1	01aah12	0- 01S4-	0- 664S-	0- Sa0a6	1M42	dDl
5 wpenC	12 1	- ah7- - 7	4- 47h42	4662162	4- S1146	aM16	dDl
5 wpenC	12 2	647a4	60h4h	600S0	66040	2M41	dDl
5 G8hpcCr	- 7 1	- - 466ha	4Sa11a-	4672627	4S26a- 7	16M26	dDl
5 G8hpcCr	- 7 2	4Sha4	44a- 0	40- - 6	44- a6	0M21	dDl
5 Gpmb cmb	72 2	- - 7aa1	- - 02h0	- - 7h16	- - 6- 64	SM24	dDl
5 new8T	7h 2	17h42SS	162a1a0	1672S- -	1624aS0	1M0h	dDl
5 nDDr p	6- 2	6SS- 14	6S1- Sh	6SS2a0	6SS6- 0	SM1S	dDl
&El Dpnl cmb	176 1	- - -	- 07	- Sa	- - h	hM14	dDl
&El Dpnl cmb	176 2	170	1h0	17S	16a	17M84	dDl
Fpecmb	164 1	4SS	- 60	2a-	- 7S	10M10	dDl
Fpecmb	164 2	140	16-	1a-	164	11M16	dDl
Hwon8Cmb	16S 1	4- -	4- -	- 7S	4S6	11M46	dDl
Hwon8Cmb	16S 2	270	26-	- 2-	2a1	1- M86	dDl
y n8b cmb	167 1	a67- 60h	hS6SS00	hS- 74h7	ah16410	2M76	dDl
y n8b cmb	167 2	- h0- 770	- ah1a70	- ha7106	- h7S1h0	1M2h	dDl
tCocmb	117 1	67- 7Sah	6626766	64- h202	67- - 642	1M1-	dDl
tCocmb	117 2	h- haSa	h- 127h	h- 17h1	h- 421h	SM72	dDl
tpnC	74 2	11- 7- 0	11- 6- 2	111ha6	11- S71	SM42	dDl
tpnC	76 2	1h074S4	1hhh170	1hh- 2ha	1hah2a6	SM62	dDl
tpnC	70 2	40- h6	4ah- 4	4a2S4	4a10a	1M6S	dDl
KpEDTnC	a- 1	2- 4	264	2- 2	24-	0M20	dDl
Lr wo	2S6 1	h2624	h04h0	h- 6Sa	h4700	2M02	dDl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :uwb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	a106a	a4S21	a21S-	a26- 1	1M40	dDl
Lr wo	2Sa 1	- 027- 6	- a04- 0	- aS4hh	- aS170	1M16	dDl
LdTGmb	6 1	2- 1h26-	2- 40a4S	2- 2a7S0	2- - 1a0S	SM0-	dDl
9 wgCr l mb	24 2	a- a606	a4- a2h	a4h12a	a4- a00	SM02	dDl
9 wCgwCr l r	77 2	4740h1	46402h	477706	47a- 67	1M21	dDl
9 n8Eeor Cmb	h4 1	1S274	1S61-	1S40h	1S44h	1M0-	dDl
9 n8Eeor Cmb	h7 1	102h7	16h44	10711	1027S	1M06	dDl
9 n8Eeor Cmb	h6 1	1ahS7	1hS02	1ah02	1aha-	SM44	dDl
9 n8Eeor Cmb	h0 1	1S401	11S77	1SaS7	1S000	2M02	dDl
9 n8Eeor Cmb	ha 1	20S72	2a401	20074	2007h	2M76	dDl
u r noEb cmb	17S 1	aSS	6h-	67-	016	1SM0S	dDl
u r noEb cmb	17S 2	1hS	1h0	2S0	1ha	4M24	dDl
u cdkr 8	6S 2	421617	41h4ha	424h0S	422S2a	SM67	dDl
NGhl DGhpml	- 1 2	2SS	2- -	260	2- -	14M2h	dDl
NnTwl cmb	- h 2	2161ah	21- 764	216h76	21770S	SM4-	dDl
. Ghocmb	1S- 1	6- - 06a4	64Sa1a4	6- 60a00	6- 0124a	SM76	dDl
. Ghocmb	1S- 2	- S61776	- S7h- 7S	- S6- 044	- S6177S	SM80	dDl
l dwCocmb	47 1	4121014	42S160S	41746- h	417h- 41	SM10	dDl
l dwCocmb	47 2	14- a26	1- a62h	14S614	141S2-	1M46	dDl
l r 8 Ccmb	a2 1	hSha	h401	h4a1	h- 7S	2M-	dDl
l r 8 Ccmb	00 2	- - 0	- 1S	240	2ha	17M-	dDl
l r 8 Ccmb	0a 2	1S- 7	1SSa	1S21	1S21	1M2	dDl
l 8dnC	2a 1	1040aSSa	1a1aaS0-	1a2ha17h	10haaSaS	2M40	dDl
l 8vr p	1S0 1	2hS122	2ha0a6	2h- 607	2h41h7	1M4a	dDl
l 8vr p	1Sh 1	202472	200S- S	2a41- -	200a02	2M12	dDl
l nocmb	2- 2	42a676h	42a4017	4260- 40	420h744	SM27	dDl
l TpnCTcmb	a6 1	27SS70	26S714	27ah2a	2764hh	2M2S	dDl
l TpnCTcmb	aa 1	22aS741	22aa747	2- a2421	2- 1016h	2M44	dDl
l m8mp	- 4 1	64- 7S6	67h- - S	6700hS	67- 742	1M4	dDl
Ar pecmb	17h 1	ah2a10-	h10160-	h2- S114	h1Shha0	1M06	dDl
Ar pecmb	17h 2	- hS7006	- h221a2	- a- h- 0S	- aah1Sh	1M1-	dDl
AGw8cmb	2S- 1	26h6- 1	2a27h1	200- 01	2067- 1	2M6	dDl
AGw8cmb	2S7 1	66S4h2	6a24a2	60416a	602- a1	1M67	dDl
AdC	11a 1	1hh2	2- 7h	2610	2- 22	1- M-	dDl
AdTwCcmb	40 1	h27	1S7S	1S27	1SSS	6M61	dDl
RpwCcmb	2- a 1	4S0Sa	42S12	426ha	41aS6	2M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Drpw7hpJ	swl Pw8
Lwe:l wb D8:t&:J	3 - 724 S4	tCl Tpmb Cr Tuwbr:J	Na
5 8r CTl wb D8:t&:J	9 y SUh0l	&8mTcnC:UwdThpJ	1
&wTr:i :Adbr:qdOmprro:J	2S2- S0 12:1- J7SJ7a	&wTwUd8:uwbr:J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwocmb	71 2	64420h	6426Sa	64- 16-	64- - 7S	SM1-	dDl
YTTrpecmb	102 1	210	210	227	21h	2M1h	dDl
YTTrpecmb	102 2	1S6	h4	h4	ha	6M74	dDl
YTTrpecmb	106 1	147S	17- -	14h2	14h2	2M0h	dDl
YTTrpecmb	106 2	1S174	h417	h626	h0- 2	- M11	dDl
YTTpcmb	ah 1	1170ah1-	117Sa4- a	11h7a720	116a1h7h	2M80	dDl
YTTpcmb	ah 2	126- h- 0	12446a2	127242S	127- 6aS	SM00	dDl
ZdCd	66 2	176071	17a407	176h0-	1704SS	SM0S	dDl
ZqpdnCcmb	hS 1	1107	1127	1227	1107	4M26	dDl
ZqpdnCcmb	h1 1	- 7a	- - -	260	- 1h	14M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPmTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r :J	S2Nq . FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	20 2	1hhS	2S76	2120	2S7N	- M4	dDw
qCTb nCE	121 1	1S- -	1127	1S60	1S07	4M2	dDw
qpwr Ccl	07 2	74	6-	64	6S	hM1-	dDw
Bspcmb	1- 7 1	7SN46	71066	72Nh6	71N- 6	1M1N	dDw
Bspcmb	1- 0 1	Nh066	h20S1	h2- - 2	h16SS	1M07	dDw
Br pEPmb	h 1	21S	21h	246	227	NM41	dDw
Bcwb mTG	2Sh 1	62N464N	620hN4S	0S4166h	67- 7- N7	6M01	dDw
Bcwb mTG	2Sh 2	- 11NN74	- Sh7SN2	- S047N2	- Sh610-	SM02	dDw
Bpmb cOr	N1 1	20N47	- - h27	- 0107	- 2hN2	14M6	dDw
5 sob cmb	1SN 1	42	6-	21	42	7SM3S	dDw
5 sob cmb	1S6 1	- - 06	- 460	4Sh2	- 647	1SM0S	dDw
5 sob cmb	111 1	4SS	- 0N	4hh	426	17M12	dDw
5 sPlcmb	4- 1	42h0S1	44- N0S	44Sh- 2	4- N16N	1M01	dDw
5 sPlcmb	44 1	016N- 0h	0412S60	0- 4h6h2	0- 1SS46	1M0-	dDw
5 spenC	12 1	- N- 0h2-	42- N72S	44h2102	41Nh7- N	0MM0	dDw
5 spenC	12 2	6S671	6- S20	62hN7	62221	2M1h	dDw
5 GPmpcOr	- 7 1	1Nh6hh4	1N4- 1- -	1N11S20	1N7S- N7	2M7	dDw
5 GPmpcOr	- 7 2	12S14	12222	11N22	12S1h	1M60	dDw
5 Gpmb cmb	72 2	4h14	7SN1	4NhN	4h64	2M34	dDw
5 nesPT	7h 2	2104	2S00	211S	212S	2M2	dDw
5 nDDr p	6- 2	27h0	2700	27N0	27N0	SMh	dDw
&EwDpnwcmb	176 1	- - -	427	260	- 42	2- M20	dDw
&EwDpnwcmb	176 2	1- -	1- -	1N0	171	2SMN	dDw
Fpecmb	164 1	- N-	227	- 42	- 10	27M2	dDw
Fpecmb	164 2	160	2SS	100	1N1	hM4	dDw
HsonPCcmb	16S 1	4SN	- SS	4h2	4SS	24M3-	dDw
HsonPCcmb	16S 2	2NS	- h-	2N-	- 1h	2SM22	dDw
y nPb cmb	167 1	NNhh740	NhN1h77	1S- hNN1S	h426001	NM4	dDw
y nPb cmb	167 2	4S2S7- S	4S6NSS2	- hNh27N	4S27h- S	SMN	dDw
tCocmb	117 1	67S0h72	6N16217	04h6hh2	6h4S- N6	0M2h	dDw
tCocmb	117 2	h7N77-	h72- S4	h- NS6S	h4h6- h	1M1	dDw
tpnC	74 2	1S4h-	1S206	1Sh4-	1S701	- M2	dDw
tpnC	76 2	1N0S24	1NN606	1N- h21	1N674S	1M2h	dDw
tpnC	70 2	614S	6S70	621N	61- N	1M1	dDw
KpEDTnC	N- 1	226	274	276	247	6M0N	dDw
Lr so	2S6 1	2N- 4	- 12-	- S0-	- S1S	7M-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUhN	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:usb r:J	S2Nq. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	22Nh	2411	2- Nh	2- 6-	2M06	dDw
Lr so	2SN 1	11SNS	11h07	11627	1176S	- M1S	dDw
LdTGmb	6 1	22N4- 6-	2- N67NS	27- 1N1-	24SSh1h	7M1N	dDw
9 sgOr wcmb	24 2	N- 0S02	N46NS-	N- N466	N4S0N1	SM0-	dDw
9 sOgsOr wr	77 2	40- SN	462- N	46N40	460hN	1M17	dDw
9 nPEeor Omb	h4 1	1S20h	1S02h	1S- 6-	1S470	2M2h	dDw
9 nPEeor Omb	h7 1	16061	10N- 0	10N47	104N1	- M70	dDw
9 nPEeor Omb	h6 1	1NS0h	1Nh02	1N7h0	1N74h	2M42	dDw
9 nPEeor Omb	h0 1	1S646	1Sh21	1SN77	1SNS0	1M-	dDw
9 nPEeor Omb	hN 1	20N0S	2NS12	2NS01	20hN4	SM0	dDw
u r noEb omb	17S 1	6N0	660	0S0	6N0	2M1	dDw
u r noEb omb	17S 2	1h0	2S-	210	2S6	4M7	dDw
u dkr P	6S 2	1Sh0	1140	11N-	1142	- M1	dDw
8 GhwDGhpmw	- 1 2	27S	260	210	244	1SM1	dDw
8 nTswwcmb	- h 2	21N1- h	2106h2	216- 0-	2104S1	SM2	dDw
. Ghocmb	1S- 1	6- N1NSh	67611hh	0- 12010	6071hSN	0M1	dDw
. Ghocmb	1S- 2	- 1224N-	- ShS- - S	- S0hNN1	- Sh0767	SM2	dDw
I dsCocmb	47 1	416676h	4- - 64N0	4N772NS	447200h	NM6	dDw
I dsCocmb	47 2	14- h40	144S07	141116	14- S46	1M0	dDw
I r PCcmb	N2 1	N4	06	117	h2	22M2	dDw
I r PCcmb	00 2	S	-	S	1	10- M1	dDw
I r PCcmb	0N 2	16	21	10	1N	14M0S	dDw
I dPdnC	2N 1	1060- 1- 7	1N22NN26	1NS14476	10h021- h	1M6	dDw
I dPr p	1S0 1	h2	N-	142	1S6	2hMh	dDw
I dPr p	1Sh 1	07	h2	07	N1	11M7	dDw
I nocmb	2- 2	4272642	4- 7h167	42- 7N- 4	42N2740	1M6	dDw
I TpnCTcmb	N6 1	2444h1	26S671	270h12	274- 71	- M4S	dDw
I TpnCTcmb	NN 1	2220NS2	2- 01442	22061- 0	22h10h4	- M1h	dDw
I mPmp	- 4 1	641401	6770h7	646- hS	640NN7	1M2	dDw
Ar pecmb	17h 1	hS617h2	h226h42	1S46- 007	h7N41S-	NMS	dDw
Ar pecmb	17h 2	- h770h6	- h1h- 7-	- N2h171	- hS14- -	1M0	dDw
AGsPPcmb	2S- 1	7SS	4N-	460	4N-	- M7	dDw
AGsPPcmb	2S7 1	1210	1Sh2	1- 27	1211	hM04	dDw
AdC	11N 1	1- 004	14416	14S- -	14S04	2M1S	dDw
AdSCcmb	40 1	07N	h42	0N-	N2N	12MS1	dDw
RpsCcmb	2- N 1	417h4	4S24N	42277	41- 67	2M40	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 724 S7	tOwTpmb OrTusb r:J	8 N
5 RrCTI sb DPr:t&:J	9 y SUhN	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdPr:usb r:J	S2Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	71 2	67S	700	070	661	1- M6h	dDw
YTTr peomb	102 1	160	2SN	107	1N-	12N3-	dDw
YTTr peomb	102 2	110	h4	Nh	1SS	14M0S	dDw
YTTr peomb	106 1	14- -	147S	17SN	1464	2M6h	dDw
YTTr peomb	106 2	hN- 2	1S71S	1S- 1S	1S210	- M41	dDw
YTTpomb	Nh 1	1171N474	12S64h- h	1- 414SS6	12- - 2466	0M11	dDw
YTTpomb	Nh 2	120N001	1260221	12- 46S1	126S1h0	1MM2	dDw
ZdCd	66 2	12h6-	12776	124hh	12602	2N3S	dDw
ZqpdnComb	hS 1	11N-	1S10	1- SN	110S	12M71	dDw
ZqpdnComb	h1 1	27N	242	27N	27-	- MM1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or TusB r:J	8 N
9 PrCTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:usb r:J	S2. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r s C	9 8 I F I &	5 CdTw
qPmb cOcmb	20 2	2SS7	21S0	2S17	2S42	2P00	dDw
qCTb nCE	121 1	N60	N07	NSS	N40	4PN7	dDw
qpwr Ccl	07 2	62	61	02	67	. P6	dDw
Bspcmb	1- 7 1	4N. - 1	72S. -	4. 67N	7S220	- P S	dDw
Bspcmb	1- 0 1	N4. N4	N7621	NN. S1	N67S2	2P4-	dDw
Br pEPPmb	. 1	1. .	2S2	1N7	1. 7	4P02	dDw
Bcwb mTG	2S. 1	74S1114	64606N-	6- SN62.	6S7. 142	. P7S	dDw
Bcwb mTG	2S. 2	- S- . S7N	- S. S. 2-	- 11SS4-	- SNSSSN	1P1.	dDw
Bpmb cOr	N1 1	20NS4	- 40. 4	- 0N00	- - 4. 1	17P41	dDw
9 sob cmb	1SN 1	7N	7N	07	64	17PS6	dDw
9 sob cmb	1S6 1	2N10	- 026	4S10	- 72S	10P0N	dDw
9 sob cmb	111 1	- S-	47-	424	- . -	2SP14	dDw
9 sPlcmb	4- 1	4726- N	471. S0	461S26	4771. S	1P11	dDw
9 sPlcmb	44 1	0762411	006- 724	00- 7710	06N0171	1P42	dDw
9 spenC	12 1	- N- 0171	41. 02S6	447- 77S	41626- 6	0P44	dDw
9 spenC	12 2	6S7- -	6- 274	6261N	621- 7	2P2.	dDw
9 GPmpcOr	- 7 1	12S- 664	12266N0	122. . 7.	122S1S-	1P10	dDw
9 GPmpcOr	- 7 2	N4. 4	N66.	NN7-	N602	2PS0	dDw
9 Gpmb cmb	72 2	1N6-	1N6S	1. 1S	1N0N	1P4.	dDw
9 nesPT	7. 2	1000	10NS	10- 0	1067	1P 0	dDw
9 nDDr p	6- 2	24- 0	22- 4	2- N4	2- 71	4P4N	dDw
&EwDpnwcmb	176 1	- 27	- 10	2N-	- SN	0P17	dDw
&EwDpnwcmb	176 2	1. S	1- -	140	170	1NP 1	dDw
Upecmb	164 1	- 7N	- SS	- 60	- 42	1SP6-	dDw
Upecmb	164 2	140	14-	14-	144	1P -	dDw
HsonPCcmb	16S 1	4SS	47S	47S	4- -	6P66	dDw
HsonPCcmb	16S 2	2- -	2- -	- - S	266	21PS2	dDw
h nPb cmb	167 1	06N- . 1.	N. - - 7NN	N. 0NN62	N7- 212-	NP61	dDw
h nPb cmb	167 2	- . 60070	- . N11- S	41S61S.	4S1N- - 2	1P S	dDw
tCocmb	117 1	74N1721	67S4- NN	66- . 4S1	62SN4- 0	1SP2S	dDw
tCocmb	117 2	. 4NN77	. 42NN7	. 0020S	. 76- - 0	1P 2	dDw
tpnC	74 2	7- 2.	7- 0.	7- - 4	7- 40	SP71	dDw
tpnC	76 2	. 07- .	. - . 64	. 2- 2S	. 46SN	2PN2	dDw
tpnC	70 2	- 460	- 6- 4	- . - 4	- 60N	6P4-	dDw
KpEDTnC	N- 1	224	266	26.	27-	1SPSS	dDw
Lr so	2S6 1	1N61	16N-	1022	1076	7P 2	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or TusB r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr :i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:usb r:J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	2S0 1	167S	1447	1411	17S2	NP61	dDw
Lr so	2SN 1	0S0.	02- 4	0S2-	0112	1P74	dDw
LdTGmb	6 1	211N767	2- 62- - 2	2- - 4. 67	2201. 74	7PNN	dDw
y sgOr wcmb	24 2	. 47N2N	. 4. N0.	. 4. 7- 0	. 4N417	SP24	dDw
y sOgsOr wr	77 2	44107	4- N60	4- 71-	4- N72	SP06	dDw
y nPEeor Cmb	. 4 1	1- . 66	14. 27	14766	144N6	- P. 7	dDw
y nPEeor Cmb	. 7 1	1666.	1062N	1067-	10- 10	- P24	dDw
y nPEeor Cmb	. 6 1	1. 140	1. N76	2S167	1. 02-	2P67	dDw
y nPEeor Cmb	. 0 1	1S746	11402	1S66-	1SN. -	4P6-	dDw
y nPEeor Cmb	. N 1	20444	2NSN0	2N764	2NS- 2	2PSS	dDw
u r noEb cmb	17S 1	60-	61-	760	61N	NP66	dDw
u r noEb cmb	17S 2	1. 0	1N-	1. -	1. 1	- P6-	dDw
u cdkr P	6S 2	720	62S	74S	762	NP. N	dDw
8 GhwDGhpmw	- 1 2	1. 2	- - -	2SN	244	- 1P6N	dDw
8 nTswwcmb	- . 2	210S40	216S7.	21- 6SN	217701	SPN2	dDw
F Ghocmb	1S- 1	77N. N. N	6471N. N	66SS74N	6214114	NP0N	dDw
F Ghocmb	1S- 2	- SN0712	- SN1NS6	- 106444	- 117274	1P0S	dDw
I dsCocmb	47 1	- 770070	427- 626	42S1. - 6	4SS444S	. P6N	dDw
I dsCocmb	47 2	1- . . 24	14- 6- S	146- 21	14- 2. 2	2P24	dDw
I r PPCcmb	N2 1	111	121	. 6	11S	11P4N	dDw
I r PPCcmb	00 2	0	-	1S	0	7SPS-	dDw
I r PPCcmb	0N 2	21	1.	2-	21	. P72	dDw
I dPdnC	2N 1	10- 22S20	1060460-	10. 1. 4N.	106- N0- S	1P0S	dDw
I dPr p	1S0 1	1SN	160	1SS	127	2. PS6	dDw
I dPr p	1S. 1	1SN	7S	27	61	6. P. N	dDw
I nocmb	2- 2	47N. - 00	47N0417	40S0761	462N11N	1P4.	dDw
I TpnCTcmb	N6 1	20000.	206627	20601.	200S41	SP2-	dDw
I TpnCTcmb	NN 1	24. N. 6S	244076N	24677. 0	240S0SN	1PS6	dDw
I mPPmp	- 4 1	021. 17	0- 27- 2	04- NS6	0- 2071	1P4.	dDw
Ar pecmb	17. 1	0N7S- . 0	. 2S. - - 7	. 2. - - 6S	N0N4- 64	. P22	dDw
Ar pecmb	17. 2	- . SNS. 4	- N012- 2	4111N. 4	- . 6- 04S	- P20	dDw
AGsPPmb	2S- 1	- . 2	2. 2	- 07	- 7-	17P1.	dDw
AGsPPmb	2S7 1	N7S	0. 2	010	0N6	NP7S	dDw
AdC	11N 1	27- 4	117- N	2660	77NS	. 2P4.	dDw
AdSCcmb	40 1	. 07	11. 2	0. 2	. N6	2SP. 2	dDw
5 psCcmb	2- N 1	44SS2	44646	44462	44- 0S	SP07	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPnTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdP:u sb r :J	S2. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	71 2	4S-	440	42S	42-	7P16	dDw
YTTr pe omb	102 1	27N	260	242	276	4P.N	dDw
YTTr pe omb	102 2	111	122	176	1- S	10PN4	dDw
YTTr pe omb	106 1	127S	12- -	147S	1- 11	. P2S	dDw
YTTr pe omb	106 2	. 717	. N. -	1S26S	. NN.	- P00	dDw
YTTpomb	N. 1	1SS4S0- .	11N174- 0	110N1. N4	1121202S	. PS7	dDw
YTTpomb	N. 2	127. . 16	1272006	1- S62- 2	1202. 07	2P2N	dDw
ZdCd	66 2	. 6. 0	. 0. S	. 6- -	. 0S0	SPN1	dDw
ZqpdnComb	. S 1	12017	12. . N	1- 117	12. 42	1P7.	dDw
ZqpdnComb	. 1 1	- 160	267S	2007	2N64	. P41	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T8piqC. :MwOICI:J	1
Twip:A:cqe p:dQobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	417	- 41	- 00	- 0u	aR06	Qt l
d. iqe C. E	121 1	- 07	- 27	47u	- u6	10R47	Qt l
dIl p. qO	07 2	4	7	-	4	27RSS	Qt l
Bwldpe	1- 7 1	2a07	267S	2aSa	2u47	6RS4	Qt l
Bwldpe	1- 0 1	72- 7	721u	7S1u	7170	2R 4	Qt l
BplE8dpe	a 1	44	4a	- a	44	11R42	Qt l
Bdqe biG	2Sa 1	6106110	620aaa6	7a71a0a	61- 6S- S	2R0-	Qt l
Bdqe biG	2Sa 2	2au0- SS	- 1S0- 62	- S61a- a	- S722SS	1Raa	Qt l
BlCe q p	u1 1	114- S	1S12a	uua7	1S171	12R4a	Qt l
9 wne dpe	1Su 1	1-	21	7S	2u	0SRua	Qt l
9 wne dpe	1S6 1	- 7- 4	- 442	- S07	- - 7S	0R24	Qt l
9 wne dpe	111 1	- 04	- 60	2a-	- 47	12Ra7	Qt l
9 w8Qdpe	4- 1	12- 1	1- 11	12- 1	127u	- R60	Qt l
9 w8Qdpe	44 1	74- 70	76S17	7442-	74a- 2	1R01	Qt l
9 wlr C.	12 1	- u- 1SSa	411a2a6	4477Sa6	41- 71- 4	0R77	Qt l
9 wlr C.	12 2	7u742	6S610	7a446	7a7- 7	1R07	Qt l
9 G8Clq p	- 7 1	0au- 64	0u7u4S	00170a	0u7261	1R01	Qt l
9 G8Clq p	- 7 2	7726	7S26	4uSa	712S	0R1u	Qt l
9 GlCe dpe	72 2	- aa4	- a00	- u- 4	- a- 7	2R24	Qt l
9 Cr w8	7a 2	4u-	- u-	42-	4- S	11R01	Qt l
9 Ct t pl	6- 2	14a-	176-	14SS	14u6	7R72	Qt l
TEl t lCl dpe	176 1	u	42	7S	- -	66R17	Qt l
TEl t lCl dpe	176 2	1-	20	10	1a	- 6R07	Qt l
Ulr dpe	164 1	127	42	7u	07	7uR0a	Qt l
Ulr dpe	164 2	0	7S	1S	22	1SuR7S	Qt l
HwnC8q dpe	16S 1	u-	127	07	a4	2uR 6	Qt l
HwnC8q dpe	16S 2	12S	1- 0	110	124	uR61	Qt l
h C8e dpe	167 1	u42a4aa	uu27a- S	u0- 4SuS	u66- 10S	2R4S	Qt l
h C8e dpe	167 2	- a0766-	- a70- a4	- auaaa0	- a04- 71	SR41	Qt l
& ndpe	117 1	62a- - ua	6416776	62u1u27	6- - S7aS	1R1u	Qt l
& ndpe	117 2	a- S7- 6	a2S670	a4- 141	a- 1447	1R21	Qt l
&C.	74 2	- 2001	- 2406	- - - - -	- 2u6S	1R -	Qt l
&C.	76 2	7aSa1S	6SSu4-	6S44- 1	7au02u	1R10	Qt l
&C.	70 2	171u1	1747-	14u72	17162	1Rau	Qt l
KIEt iC.	u- 1	264	264	2- 4	274	6R1-	Qt l
Lpwn	2S6 1	2747	2- 47	240u	2476	4R17	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	2S- 4	1a2u	21ua	2S7S	6R41	CI I
Lpwn	2Su 1	a072	a770	a6S0	a6- a	1RS7	CI I
LqiGdpe	6 1	2161uS1	22022u1	22- 6- aS	222- 4a1	2R7-	CI I
y wg. pl dpe	24 2	a60	1142	u- -	au1	17R0a	CI I
y w. gw. pl p	77 2	2u24	2a44	2070	2u41	- R -	CI I
y C8Er np. be	a4 1	17S	207	- 27	27S	- 6RS6	CI I
y C8Er np. be	a7 1	2SS	110	27S	1ua	- 7R66	CI I
y C8Er np. be	a6 1	227	410	242	2a4	- 6RS6	CI I
y C8Er np. be	a0 1	1Su	110	07	1SS	22RS7	CI I
y C8Er np. be	au 1	2SS	- 27	- 7S	2a2	20R77	CI I
mpOnEe dpe	17S 1	0-	0-	7-	60	10R 2	CI I
mpOnEe dpe	17S 2	2-	- S	- -	2a	10R6-	CI I
mqCkp8	6S 2	1- 1S	12uS	1- S0	12aa	1R20	CI I
NGCI t GCIbI	- 1 2	242	207	242	27-	0R61	CI I
NCiwI I dpe	- a 2	1- - S0	1- 717	1- - 2-	1- - u2	SRu0	CI I
F GCndpe	1S- 1	6- - S1S2	6- 76u2S	62aSS6u	6- 2766-	SR7-	CI I
F GCndpe	1S- 2	- S4aa16	- SS6212	- Saa- a0	- S71u42	1R7-	CI I
DOw. ndpe	47 1	4S- 1720	41- S- - 1	41Sa2- 0	4SaS- 67	1R20	CI I
DOw. ndpe	47 2	1421u-	14S- 27	144004	142420	1R70	CI I
Dp8p. dpe	u2 1	6	74	- S	6	04SR26	CI I
Dp8p. dpe	00 2	S	S	0	2	10- R21	CI I
Dp8p. dpe	0u 2	1a	1a	1-	10	2SRu	CI I
D8qpC.	2u 1	2422u-	2- a100	2- 0- 67	2- a6Su	1RS4	CI I
D8qvpI	1S0 1	7u	1Su	1Su	a2	- 1R7S	CI I
D8qvpI	1Sa 1	27	- -	7S	- 6	- 7R27	CI I
DOndpe	2- 2	0- 02u	02401	0- 062	0- - 2S	1RSS	CI I
DiIC. idpe	u6 1	uSu	0a2	07S	0u-	- Ru4	CI I
DiIC. idpe	uu 1	- 7- 4	- 6u4	- 726	- 7u1	2R4a	CI I
Db8bI	- 4 1	2a21a7	2a260u	2u6- - 1	2aS4S1	1R22	CI I
cpIr dpe	17a 1	ua64aSa	ua7647a	uu0u21u	ua- - 1a7	SR74	CI I
cpIr dpe	17a 2	- u2a0- 7	- u2172-	- uu240-	- u44700	SRu6	CI I
cGw8pe	2S- 1	- - -	2a2	- 10	- 14	6R6u	CI I
cGw8pe	2S7 1	6u-	607	7Su	622	17Ru0	CI I
cq	11u 1	267S	2742	27a2	27a7	2RSa	CI I
cqiw. dpe	40 1	1142	1- u-	1227	127S	aRu2	CI I
5 Iw. dpe	2- u 1	1SS	127	60	a0	- SR1S	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t plwiCI:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T 8piqC. :MwOCI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	6S	0S	uS	0S	14R2a	Qt l
Yiiplr dpe	102 1	42	a2	42	7u	4aR4u	Qt l
Yiiplr dpe	102 2	S	2u	61	- S	1S- R26	Qt l
Yiiplr dpe	106 1	12Su	1107	1127	110S	- R7a	Qt l
Yiiplr dpe	106 2	a006	1S71S	1S- 74	1S21-	- R0a	Qt l
Yiildpe	ua 1	11- a0066	12SS6016	111a012a	117- - u0S	- R36	Qt l
Yiildpe	ua 2	12467a-	1271S0u	126471u	1274S6-	SR04	Qt l
Zq O	66 2	2440	2- 0S	24u4	24- 4	2R u	Qt l
ZdOC. dpe	aS 1	7SS	7a2	427	7S6	16R71	Qt l
ZdOC. dpe	a1 1	160	07	127	122	- 0R77	Qt l

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	1S2	1S2	1S2	1S2	SN8S	dDl
q. Tb C. h	121:1	42	60	42	-S	2NNN0	dDl
qpl r . cl	0-:2	6	2	7	4	-6N00	dDl
Bwpcmb	17-:1	42	-N	-S	-S	16N06	dDl
Bwpcmb	170:1	-S	N7	-S	61	71MS	dDl
Br ph8&mb	:1	77	44	21	72	74N0S	dDl
Bdl b mTE	2S :1	640 6N7	6610 42	6-1S4N6	6-76S70	1M11	dDl
Bdl b mTE	2S :2	724 N76	7224067	71270S7	71 474	2N8	dDl
BpCb c r	N1:1	-71N	4 47	-S74	-S N	7NN4	dDl
Fwob cmb	1SN:1	-4	0-	77	-4	7NN46	dDl
Fwob cmb	1S6:1	76S1	7N60	7674	70S1	7M7	dDl
Fwob cmb	111:1	740	7-1	7-0	7-2	1M70	dDl
Fw8lcmb	47:1	2-	24-	270	240	4M76	dDl
Fw8lcmb	44:1	7- 26	767 S	7-04-	76S2S	SM2	dDl
FwpeC.	12:1	244-711	242N261	247S217	2474- -	SM7N	dDl
FwpeC.	12:2	2 664	2 S 6	2 -S-	2 422	1N8S	dDl
FE8Cpc r	7-:1	462- 6	44NN-7	47N120	44 N-N	2N07	dDl
FE8Cpc r	7-:2	7174	71 2	2-SS	2 42	17N84	dDl
FEpCb cmb	-2:2	1140	121S	N7	1117	1SMS	dDl
FCew8T	- :2	70	27	70	72	27MS	dDl
FCDDr p	67:2	6N7	667	007	0S0	NN2	dDl
&hl DpCl cmb	1-6:1	10	N	S	N	1SSN82	dDl
&hl DpCl cmb	1-6:2	7	S	7	2	N6N0S	dDl
Upecmb	164:1	0-	-N	-N	64	1-N86	dDl
Upecmb	164:2	27	77	70	71	22M71	dDl
GwoC8c mb	16S:1	142	1SS	N7	1SN	20N07	dDl
GwoC8c mb	16S:2	170	S	147	127	27M6	dDl
HC8b cmb	16-:1	S-6 11	716-61	SN20-N	1-2S00	1M6	dDl
HC8b cmb	16-:2	42N16N2	4166NS0	7 -40	414 74-	7M42	dDl
t. ocmb	11-:1	6622 72	6N-0-64	66071S2	6010N66	1NN4	dDl
t. ocmb	11-:2	1S7-S72	1S116-S	-N7S2	1SS1661	7M7	dDl
tpC.	-4:2	7N	761	7-6	76	4NN-	dDl
tpC.	-6:2	2 N4	2N-S	2 10	2 10	2N2	dDl
tpC.	-0:2	N7	1S6	1S6	N	17N80	dDl
KphDTC.	N7:1	2 S	241	2-0	267	M44	dDl
Lr wo	2S6:1	077	6N	622	6N2	NN21	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	677	6S6	644	62N	7M1	dDl
Lr wo	2SN:1	2 N4	204-	2077	2N21	-N81	dDl
LcTEcmb	6:1	240766N	24S1-2S	27-N67	2411206	2M41	dDl
9 wg. r l cmb	24:2	1SN	1SS	60	2	24N8-	dDl
9 w. gw. r l r	- - :2	N8	-0	00	01	10M04	dDl
9 C8heor . mb	4:1	12-	2SS	2SN	10N	2-M12	dDl
9 C8heor . mb	- :1	77	-S	-S	44	21M06	dDl
9 C8heor . mb	6:1	1SN	1-S	1SN	122	1 M0N	dDl
9 C8heor . mb	0:1	10	2	10	42	1S7M1	dDl
9 C8heor . mb	N:1	60	60	60	60	SM8S	dDl
u r Cohb cmb	1-S:1	0	0	S	4	N6M0S	dDl
u r Cohb cmb	1-S:2	7	S	S	1	107M21	dDl
u cdkr 8	6S:2	-7	-7	40	-1	0M12	dDl
3 ECl DECpm	71:2	1 2	20-	160	211	26MN0	dDl
3 CTWl cmb	7 :2	11SNS	1S -4	1S07N	1S 24	1M1N	dDl
y ECocmb	1S7:1	60S6614	6NN62 -	6044SNS	600N 0	1M4S	dDl
y ECocmb	1S7:2	77NN666	7200NS7	711 4S2	7261 -0	4M1-	dDl
l dw. ocmb	4- :1	472 6-2	44-0077	4761N74	47N7S07	1M12	dDl
l dw. ocmb	4- :2	1- -264	1-11N1	144S1-	1-S1-7	7M0	dDl
l r 8 . cmb	N2:1	:47	:	:1	:1N	:12-M6	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1S	14	1	14	71M46	dDl
l c8dC.	2N:1	1N0N6N	1N244S	1N1141	1N7N10	1M4	dDl
l c8vr p	1S0:1	142	142	0-	11	72M27	dDl
l c8vr p	1S :1	42	N7	2	02	70M8	dDl
l Cocmb	27:2	2N42N	2N04-	2 664	2N 46	2M22	dDl
l TpC. Tcmb	N6:1	4SN	-0-	4-S	40N	1NM1-	dDl
l TpC. Tcmb	NN:1	1142	12SN	0N7	1S4-	21MN	dDl
l m8mp	74:1	7SSS7-	2 N6 0	7S7044	7SSN2-	SMN0	dDl
Ar pecmb	1- :1	700-72	46-S21	- -1200	46461S	SM2	dDl
Ar pecmb	1- :2	422 4-1	4S1N662	7 S160S	4S4 2N	4M1S	dDl
AEw8cmb	2S7:1	277	72-	2N7	2N1	16M76	dDl
AEw8cmb	2S- :1	-42	-60	02-	611	16M20	dDl
Ac	11N:1	1177	11-N	1N6N	17N0	7SM8N	dDl
AcTw. cmb	40:1	10-	142	1 2	16	1-M82	dDl
5 pw. cmb	27N:1	42	2-	2-	71	71MS	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Vw. wocmb	-1:2	1S	10	1S	12	71MS	dDl
YTTr pecmb	102:1	77	-S	0-	-7	7 N04	dDl
YTTr pecmb	102:2	22	77	-6	70	4-MN4	dDl
YTTr pecmb	106:1	1277	11 2	11N7	12S7	2M27	dDl
YTTr pecmb	106:2	11SS-	11S 4	1S2-4	1S0N4	4M2N	dDl
YTTpcmb	N :1	12212-1N	12402216	12407614	127N6116	1M21	dDl
YTTpcmb	N :2	144N116	14S0-NS	120-4S	1700S7-	6M6	dDl
Zc d	66:2	117	117	177	12S	M02	dDl
ZqpdC. cmb	S:1	7 2	-2-	4N7	460	14M62	dDl
ZqpdC. cmb	1:1	1SS	0-	N7	N6	14M0N	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 2SB:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l T RdNpamI e pas	S77LF: UMd

3l l e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9 pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-0-	161-	1 --	101-	12M1u	dDP
q. Tde C. h	121J1	16 u6	1072u	104 -	1020S	1M1S	dDP
qlPp. cd	0-J2	2--	260	242	2--	4M1	dDP
Bl l dbe	17-J1	1uS12	1 214	1 122	1u0u7	7M6	dDP
Bl l dbe	170J1	72264	776S1	77241	77S7-	2M3	dDP
BplhNbe	J1	22-6	224S	216S	221	2M12	dDP
BdPe bTE	2S J1	6-707-	64-u7	6-4u14u	6-14676	SM0-	dDP
BdPe bTE	2S J2	7227 0-	7102 S7	772--4u	724SuSu	2M4S	dDP
BlCe c p	u1J1	44S1	44-	4474	4471	SM66	dDP
Fl oe dbe	1SuJ1	27u	22-	710	26S	1 M14	dDP
Fl oe dbe	1S6J1	41-	77-1	41u4	7u u	12M10	dDP
Fl oe dbe	111J1	2u12	264	24u4	264	6M1	dDP
Fl Ndbe	47J1	1277	124 6	121u6	1274S	1M26	dDP
Fl Ndbe	44J1	22 S	272u47	272Su2	271741	SM6	dDP
Fl lr C.	12J1	27472S1	27-76 4	27--0-2	27-Suu2	SM2	dDP
Fl lr C.	12J2	2 221	2u6S7	2uS-2	2u626	2M34	dDP
FENCl c p	7-J1	7u42 1	701112	766122	707u42	2M1	dDP
FENCl c p	7-J2	2010	26SS	20-	26 2	7M3-	dDP
FElCe dbe	-2J2	626u	62Su	6-S-	6720	2M4u	dDP
FCrl NT	- J2	4u44	4uu1	-S0u	4 74	2M4	dDP
FCDDpl	67J2	u07	uu47	11S	uu 0	2M1-	dDP
&hPDlCPtbe	1-6J1	77	10	u	1	6-M10	dDP
&hPDlCPtbe	1-6J2	7	1S	S	4	114M0S	dDP
Ulr dbe	164J1	42	2	42	-u	4 M4u	dDP
Ulr dbe	164J2	4S	77	2S	71	72M07	dDP
Gl oCNdbe	16SJ1	60	42	u7	64	72M17	dDP
Gl oCNdbe	16SJ2	120	11S	147	120	17M16	dDP
HCNdbe	16-J1	441406	701011	1712uu	714u2-	1M0-	dDP
HCNdbe	16-J2	4121S-7	41-4471	427u 7	4101404	1M46	dDP
t. odbe	11-J1	6014724	6u7u021	60 --11	60u2u-2	SM7	dDP
t. odbe	11-J2	062 1	uu2S1	1SS41u7	u --u	1M41	dDP
tlC.	-4J2	2426S	24u00	2-44S	24u-	2M70	dDP
tlC.	-6J2	47u67S	4461-6	4-76u2	4461-6	1M0	dDP
tlC.	-0J2	1S 20	1S -4	117	11S 7	2M7	dDP
KlhDTC.	u7J1	2u0	274	260	267	1SM77	dDP
Lpl o	2S6J1	u6-7	u60-	u-0S	u677	SM0-	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl Rdpaml e pas	S77LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0041	0204	0-S2	0-S6	7M11	dDP
Lpl o	2SuJ1	74446	74-7-	7417-	74702	SM01	dDP
LdEdbe	6J1	24Su 2u	2427272	240SS0	2474SuS	1M71	dDP
9 l g. pPdbe	24J2	1S7416	1S7-60	1S-uu4	1S42u	1M77	dDP
9 l . gl . pPp	- - J2	144S	1-6S	1070	1-0	M4-	dDP
9 CNr op. be	4J1	10 -4	1u6uS	10u -	1u106	2M4S	dDP
9 CNr op. be	-J1	216-1	22220	22011	221 6	2M7	dDP
9 CNr op. be	6J1	24217	2-S4u	2-1 S	24u10	2M17	dDP
9 CNr op. be	0J1	12uu1	14441	17072	176u-	-M01	dDP
9 CNr op. be	uJ1	7-S0u	7-2u0	7- 22	7-42	1M24	dDP
mpCohe dbe	1-SJ1	17	17	17	17	SM3S	dDP
mpCohe dbe	1-SJ2	7	7	S	2	u6M0S	dDP
mdkpN	6SJ2	1440	167S	1667	1-uS	0M7u	dDP
3ECPDECIbP	71J2	2Su	277	2Su	210	6M66	dDP
3CTl PPdbe	7 J2	020SS	042SS	0-746	04Su2	1M0	dDP
y ECodbe	1S7J1	6uS2 24	6u-2014	6u260-S	6u20467	SM76	dDP
y ECodbe	1S7J2	71uu066	721467-	772uu 7	7244S u	2M7S	dDP
: dl . odbe	4-J1	47- - uu7	4-S62-1	470224u	4411461	1M10	dDP
: dl . odbe	4-J2	14u41u	14uu07	1-40S4	1-S66-	2M77	dDP
: pNp. dbe	u2J1	u20	u 0	u S	u02	4M41	dDP
: pNp. dbe	00J2	4S	77	10	7S	4SM3-	dDP
: pNp. dbe	0uJ2	1S	11	1S1	11S	uM22	dDP
: dNdC.	2uJ1	24-0u-	27002u	24S-40	2417-4	1M0	dDP
: dNpl	1S0J1	1S4uu	11-14	12S22	11741	6M1	dDP
: dNpl	1S J1	1S S-	1Su46	1S001	1Su41	SM02	dDP
: Codbe	27J2	2S0 06	212762	2S 707	2S S4	1M30	dDP
: TC. Tdbe	u6J1	72SS	7S2-	7S-S	7S 2	7M36	dDP
: TC. Tdbe	uuJ1	27S2u	22 S7	22-44	22u2-	1M1S	dDP
: bNbl	74J1	7S7u6	7S0-00	7S4 00	7S-404	SM02	dDP
Apl r dbe	1- J1	41 4-4	4S0727	414141	41767	SM36	dDP
Apl r dbe	1- J2	7 0-u77	4S10111	41u -27	4S6Su22	2M0	dDP
AEl NNdbe	2S7J1	70	0u0	0	S1	1M32	dDP
AEl NNdbe	2S-J1	274- -	22012	27-uS	2724	2M32	dDP
Ac	11uJ1	17-S	1Su7	12-S	122u	1SM0	dDP
AdT. dbe	40J1	60-2	6- 7	62-2	6-72	7M1	dDP
5 ll . dbe	27uJ1	727u4	72606	7710u	72046	1M27	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 2SB:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 2S	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl Rdpamle pas	S77LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	007	1SSu4	1S410	1SS 1	7M1	dDP
YTpIr dbe	102J1	77	60	1SS	60	-SM3S	dDP
YTpIr dbe	102J2	2u	2u	44	77	2uM0	dDP
YTpIr dbe	106J1	17u7	170-	17-u	1702	SM7	dDP
YTpIr dbe	106J2	1S-u2	1S 72	1Su00	1S0 0	1M04	dDP
YTTdbe	u J1	122Su01	12-46S14	127u0710	127uS6u7	1M16	dDP
YTTdbe	u J2	172727	17S042u	17 6 1	1742-2	7M6	dDP
Zc d	66J2	261S	206S	2-uS	26-S	7M04	dDP
ZddC. dbe	SJ1	17	1-S 2	14066	1461	7M14	dDP
ZddC. dbe	1J1	7442	7426	7274	7760	7M14	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r:	S- 4q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	614N- 2	6Shh0J	611026	61210N	SM4S	dDw
qCTb nCE	12171	42Sh	4J- 4	44h-	4412	4NS1	dDw
qpwr Ccd	0J72	42h2	4Sh0	4211	42SS	2M-	dDw
Bspcmb	1- J71	40JS12	404- hS	40hhS0	4064- 0	SM0-	dDw
Bspcmb	1- 071	N2hS0J	N- SS6J	N46- 1-	N- J1J1	1M16	dDw
Br pEPmb	h71	2J62	2J60	24h4	2J41	1M62	dDw
Bcwb mTG	2Sh71	6N- 0JS6	606JN- 6	60ShN41	6001S61	SM1J	dDw
Bcwb mTG	2Sh72	- 1hhSS1	- 1h41J2	- - 126h6	- 2- J2N-	2NS0	dDw
Bpmb cCr	N171	0- 44	N21h	N061	N1SN	NNM2	dDw
5 sob cmb	1SN71	2J4	- 60	2S4	20J	- SM20	dDw
5 sob cmb	1S671	4- J1	44N4	4226	4- J4	2M10	dDw
5 sob cmb	11171	2JJ0	2- 2J	2406	24J-	4NMS	dDw
5 sPlcmb	4- 71	- 16- hh	- 2S2- 0	- 2J1S-	- 2SJ0h	1M16	dDw
5 sPlcmb	4471	J- hS- 2S	JJ- 4- 1N	J- 4S0- 6	J4210h1	1MMJ	dDw
5 spenC	1271	6- S- 0J0	60J0002	6NSN402	662- - - 4	4M2S	dDw
5 spenC	1272	NJ- 6J	N4Jh-	N41S0	N46NN	SM0J	dDw
5 GPnpcCr	- J71	h6h6S04	12NN6J14	1J- SNN- 6	126- S40J	22M2h	dDw
5 GPnpcCr	- J72	14SJ2S	1J2244	1JN1SN	1JS2h1	JM16	dDw
5 Gpmb cmb	J272	- 0- 4h	- 066S	- 6061	- 02J6	1M4-	dDw
5 nesPT	Jh72	4NS- 0	4h2NJ	4NSh4	4N402	1M4J	dDw
5 nDDr p	6- 72	1064S6	1006hN	102- Sh	10J401	1M0S	dDw
&EwDpnwcmb	1J671	60h6J	60h4h	0SN22	6Nh12	2M4S	dDw
&EwDpnwcmb	1J672	2NJ- 0	2NJN4	2NN1N	2N646	SM2	dDw
Fpecmb	16471	J- hJ2	J6NNS	J4NN1	JJ2- N	2M01	dDw
Fpecmb	16472	2- 1N0	22- 02	224S2	226J4	2MS4	dDw
HsonPCcmb	16S71	6S00-	6- hh6	616- J	621- J	2M6h	dDw
HsonPCcmb	16S72	2h- N6	2h- 06	2hJ6h	2h444	SM10	dDw
y nPb cmb	16J71	h6hJ122	h4N0hSN	h- 6N06-	hJ10264	1M04	dDw
y nPb cmb	16J72	416S2- 1	41- - h6J	4- 1- 012	42S26- 6	2M1	dDw
tCocmb	11J71	0S240JJ	6h6h10J	6h22NJJ	6h02262	SM0-	dDw
tCocmb	11J72	hhS6S1	h66JJS	1S26SJJ	hh44S2	- NS1	dDw
tpnC	J472	- 1- 220J	- 11- 1h-	- SJ2Sh2	- Shh1N0	1MJ	dDw
tpnC	J672	J6SNJSSS	JJJN0S14	JJ162621	JJ611J4J	SMM-	dDw
tpnC	J072	14216N-	14- 2602	14SS64-	141N- - -	1MJ	dDw
KpEDTnC	N- 71	- S2	- - J	- 20	- 22	JM2h	dDw
Lr so	2S671	40N40J	406420	4NNJJ-	4N11J2	1MJ	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tusb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP usb r:	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- hhNSS	4S1S- S	4S206-	4S11hN	SM10	dDw
Lr so	2SN71	1NhSh- -	1Nh- 0- J	1h124- N	1NhhS- J	SM02	dDw
LdTGmb	671	244h10S	2- h622S	2422J1-	24226- 4	1NSh	dDw
9 sgOr wcmb	2472	N1001S	NSh140	N1114-	N12660	SMJ	dDw
9 sOgsOr wr	JJ72	N4211-	N2h04h	N100N2	N2hNN1	1M40	dDw
9 nPEeor Omb	h471	264J1	20S44	20244	26h1-	1M-	dDw
9 nPEeor Omb	hJ71	J26N	JJh-	J026	JJ2h	4M20	dDw
9 nPEeor Omb	h671	hh12	hNhJ	1S101	hhh-	1M4	dDw
9 nPEeor Omb	h071	- - 60	- 606	- 442	- 4hJ	4M0S	dDw
9 nPEeor Omb	hN71	hS0N	hSS-	h2S-	hShJ	1M1	dDw
u r noEb omb	1JS71	1146N6	11J- JN	116- - -	11J4Jh	SM02	dDw
u r noEb omb	1JS72	- 62- 6	- 66JS	- 6620	- 6JS4	SM04	dDw
u dkr P	6S72	2J406	2J- 26	240hN	2J2SS	1M41	dDw
8 GhwDGhpmw	- 172	N- 6h	0J00	N2h4	NSNS	JM41	dDw
8 nTswwcmb	- h72	42h- N2	42JJS2	421h6h	42J61N	SMM0	dDw
. Ghocmb	1S- 71	6h0Nhh4	6N- 2- 40	6N- 12J1	6NNSN64	1M24	dDw
. Ghocmb	1S- 72	- 1J10N-	- 16h42J	- - - N2SJ	- 21hNS4	- M2S	dDw
I dsCocmb	4J71	46JSSh-	4Jh4JJ0	44N4hS4	4J06J1N	1MM4	dDw
I dsCocmb	4J72	1JS6N1	1JS1J6	1J61hN	1J2- 4J	2M2S	dDw
I r PCcmb	N271	244	1NJ	1Nh	2S6	1JM10	dDw
I r PCcmb	0072	1JS	120	1J-	14-	1SM14	dDw
I r PCcmb	0N72	11-	1S-	112	1Sh	JMS4	dDw
I dPdnC	2N71	14J666JN	140JN- 1h	14N2S6N2	1401J22S	SM1S	dDw
I dPr p	1S071	2N10	20Jh	20Sh	2061	1M16	dDw
I dPr p	1Sh71	2410	2- N4	20- 4	2J11	0M6h	dDw
I nocmb	2- 72	6N1- 4	6N646	6NS6N	6N2N-	SM46	dDw
I TpnCTcmb	N671	2h- SJ4	2NN66S	2NNN66	2hS1h-	SMMJ	dDw
I TpnCTcmb	NN71	261Jh26	2624hSS	26J2S10	26- Sh4N	SM01	dDw
I mPmp	- 471	- - 21h6	- 2014-	- 2S0- J	- 266h1	1M06	dDw
Ar pecmb	1Jh71	1SSNSNJ4	hN- 04NS	h020- hN	hNN1h1S	1MM-	dDw
Ar pecmb	1Jh72	4S- 102N	4Sh4J06	42NhhSh	41- N0- N	- M2J	dDw
AGsPcmb	2S- 71	24Sh	2- 60	2- - 4	2- 0S	1Mlh	dDw
AGsPcmb	2SJ71	J- S1	J6S1	JJ4-	J4N2	2M1S	dDw
AdC	11N71	N6hJ	N6J-	h14J	NN- 1	- MSh	dDw
AdSCcmb	4071	hNJ6-	1SSN21	1S1NJ2	1SS412	1M60	dDw
RpsCcmb	2- N71	0016S	0N1N-	0h020	0N- J6	1M6J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r :	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0SSNS	6h10-	6N0- 1	6h- 2N	SM1h	dDw
YTTr pe omb	10271	1JN- J	1JNJ2	1616S	1Jh4h	1M1J	dDw
YTTr pe omb	10272	046h	0014	00SN	06- S	1MM-	dDw
YTTr pe omb	10671	11014	12SS6	12214	11h0N	2M1S	dDw
YTTr pe omb	10672	16S6S	1J426	161h4	1JNh-	2MIN	dDw
YTTpomb	Nh71	1- S6- N16	1- 2- 2- 4N	1- S1J2- 1	1- 1S- 0hN	SMM0	dDw
YTTpomb	Nh72	1- hN- 04	144h106	1JS1J21	144h6hS	- M6	dDw
ZdCd	6672	h1104	hS0J2	NNNh6	hS204	1M4	dDw
ZqpdnComb	hS71	6- - S-	6- N- N	6J4h6	6421-	1M0N	dDw
ZqpdnComb	h171	141hh	141h1	1- h24	141SJ	1M1	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6- S- 1N	6- - 40h	61h020	620N41	1M1J	dDw
qCTb nCE	12171	4626	4Jh-	4- N4	4J- 4	2NMh	dDw
qpwr Ccd	0J72	42SN	4410	42- S	42NJ	2M0N	dDw
Bspcmb	1- J71	4N2J4S	400- h4	40h6JS	40hN61	SM14	dDw
Bspcmb	1- 071	N41- J6	N4h1h0	NJh0hS	NJS114	1N8h	dDw
Br pEPmb	h71	2JS6	2Jh2	2J22	2J4S	1NMS	dDw
Bcwb mTG	2Sh71	6N0h2J-	6hNh446	6NJ1ShS	6hS6Jh6	1N86	dDw
Bcwb mTG	2Sh72	- 46- 11-	- SJ02hJ	- - 20h- -	- 2N20NS	6M2h	dDw
Bpmb cCr	N171	04NJ	NSN6	NJ1h	NS- S	6M40	dDw
5 sob cmb	1SN71	246	2JN	2J4	2J-	2M12	dDw
5 sob cmb	1S671	4J26	4NJh	42Jh	4J4N	6M01	dDw
5 sob cmb	11171	2422	24h0	2- N2	24- 4	2M41	dDw
5 sPlcmb	4- 71	- 2- N0J	- 24062	- 26061	- 2J1- -	SM4J	dDw
5 sPlcmb	4471	JJ426- N	J- 0N1h1	JJSSh24	J40- h1N	1M16	dDw
5 spenC	1271	66- SNS4	6h0NNh4	0S22hN2	6N00J6S	- M12	dDw
5 spenC	1272	NhS0N	N000h	N06J4	NN10S	SMMh	dDw
5 GPmpcCr	- J71	10SJN04-	2S0- 604N	220h6N0J	2S1h04JJ	14Mh	dDw
5 GPmpcCr	- J72	1hS- 64	1h4- 60	2SSh0h	1hJ2- 0	2M0J	dDw
5 Gpmb cmb	J272	- N44N	- 0h0S	- 6hJ4	- 00h1	2N82	dDw
5 nesPT	Jh72	JSh41	J141h	4h- Jh	JSJ0-	2M1-	dDw
5 nDDr p	6- 72	1006hJ	1NSS01	10611-	100hJh	1M12	dDw
&EwDpnwcmb	1J671	6N2Sh	6h40-	6N242	6N641	1N8J	dDw
&EwDpnwcmb	1J672	- S1N1	- SJh2	2hJh-	- S122	1M00	dDw
Fpecmb	16471	J40- h	J4- 4J	J64N0	JJ1hS	2N80	dDw
Fpecmb	16472	2- NNJ	2- J0N	220- 6	2- 4SS	2M14	dDw
HsonPCcmb	16S71	Jh020	62h16	61h62	61J- J	2M06	dDw
HsonPCcmb	16S72	- S22N	- S- 02	2h4Jh	- SS2S	1M0-	dDw
y nPb cmb	16J71	h0- 2JN1	h0N12S1	hh- J062	hN16J1J	1N8N	dDw
y nPb cmb	16J72	4- - - NN-	- NhS6J6	4- SJ4- 0	41066Jh	JM14	dDw
tCocmb	11J71	0- 16- 0N	02S- 6- -	01NNS60	02- 6S26	SM10	dDw
tCocmb	11J72	1S2N- S4	h2641N	1S16J00	hhS4- -	JM0-	dDw
tpnC	J472	- 12- NJJ	- 166N60	- 1Sh106	- 1- - 2hh	SM16	dDw
tpnC	J672	J0026- 26	J606NJ0-	J6122S- 2	J6N02- 11	1M12	dDw
tpnC	J072	14h66h2	1404004	14- - 4J0	146N- S0	2M1h	dDw
KpEDTnC	N- 71	- - h	- 21	- 42	- - 4	- Mh	dDw
Lr so	2S671	4N0604	4Nh004	4h1h4-	4Nh0h0	SM44	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	4S0J2J	41Sh- 6	411S1N	4ShN26	SM4h	dDw
Lr so	2SN71	1h2NJ01	1h- S266	1h22J12	1h20116	SM21	dDw
LdTGmb	671	2J2hh- J	2JNSh6J	2J66SJ6	2JJNhN6	1N8-	dDw
9 sgOr wcmb	2472	N4SS6J	N4SS- h	N14J01	N- 1JJN	1M00	dDw
9 sOgsOr wr	JJ72	N4NJJ1	N46N4h	N- 0NhJ	N444- 2	SM6N	dDw
9 nPEeor Omb	h471	26h6S	20SS2	206N6	20216	1M1S	dDw
9 nPEeor Omb	hJ71	646S	Jh1S	Jh06	611J	4M11	dDw
9 nPEeor Omb	h671	1S1S4	1S246	1SJ01	1S- S0	2M12	dDw
9 nPEeor Omb	h071	- NSh	- 0S1	- 460	- 6Jh	4M00	dDw
9 nPEeor Omb	hN71	h4J-	h62h	hJ4J	hJ42	SM12	dDw
u r noEb omb	1JS71	11N2Jh	11N2J0	11N4hh	11N- - N	SM12	dDw
u r noEb omb	1JS72	- 0J- -	- 0N- 4	- 0242	- 0J- 6	SM0h	dDw
u dkr P	6S72	2Jh04	2641N	2J600	26S2-	1M4-	dDw
8 GhwDGhpmw	- 172	N444	N- N6	0h61	N264	- M1h	dDw
8 nTswwcmb	- h72	4- 4201	4- 06S4	424SS-	4- 1hJh	1M64	dDw
. Ghocmb	1S- 71	0112204	02- 0406	0- JN60-	02- 6141	1M0S	dDw
. Ghocmb	1S- 72	- - 0J- N1	- S4J1- N	- - hS- N1	- 20S- SS	JM10	dDw
I dsCocmb	4J71	40442h4	40S0- N2	40h6J4J	404h4S0	SM14	dDw
I dsCocmb	4J72	1J0- 40	142N- -	1J4J6h	1J1JN-	JN8N	dDw
I r P Comb	N271	1N0	2SJ	221	2SJ	NM2J	dDw
I r P Comb	0072	120	1JS	140	141	NM14	dDw
I r P Comb	0N72	h6	114	h4	1S1	1SM10	dDw
I dPdnC	2N71	140hNh1-	1JS- N600	1464- 24S	14N26h4-	1M4	dDw
I dPr p	1S071	2N10	20Sh	2NSS	200J	2M1S	dDw
I dPr p	1Sh71	2NN4	202J	2NN4	2N- 1	- M4-	dDw
I nocmb	2- 72	6hJS0	6h060	6NS2J	6h1SS	1M6	dDw
I TpnCTcmb	N671	2h4J- J	2h2JJ4	2h4h16	2h4SS2	SM4-	dDw
I TpnCTcmb	NN71	26N0N61	26N464S	26h66- N	26Nh01-	SM4-	dDw
I mPmp	- 471	- 2NSNh	- 22600	- 21NhJ	- 2422S	1N84	dDw
Ar pecmb	1Jh71	hN001- J	1S4ShJJh	hN- NS24	1SS41J0-	- M1N	dDw
Ar pecmb	1Jh72	42hN260	- N0- h6h	4240N46	414SS20	JN0S	dDw
AGsPbmb	2S- 71	2J2J	21N4	202J	240N	11N86	dDw
AGsPbmb	2SJ71	Jh00	JN4-	62- J	6S1N	- M1	dDw
AdC	11N71	h12N	hS- 0	hSS-	hSJ6	SM02	dDw
AdSCcmb	4071	hh6- N	1S1h- 0	1S1hJ4	1S1106	1M2	dDw
RpsCcmb	2- N71	004S-	0h0N4	NS2S-	0h1- S	1M11	dDw

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0S4N-	01S0J	01S4J	0SN6N	SM40	dDw
YTTr peomb	10271	16420	1JN1N	16620	162h1	2Mlh	dDw
YTTr peomb	10272	0J6h	NSSN	0J6-	001-	- M1	dDw
YTTr peomb	10671	11440	11N14	116Nh	116JS	1M0S	dDw
YTTr peomb	10672	16NJS	1Jh1S	16- hh	16- N6	2MN0	dDw
YTTpomb	Nh71	1- 0JNN66	141- 6441	1- N01S1h	1- h221SN	1Mlh	dDw
YTTpomb	Nh72	1J20- JS	1- 2SJ- 4	1J- 40h2	146SNh2	NM2	dDw
ZdCd	6672	h20NN	hShh0	hShS-	h1J62	1M16	dDw
ZqpdnComb	hS71	6- 211	6J- 2h	6Jh- h	64N26	2M21	dDw
ZqpdnComb	h171	14hJN	14NJN	1J142	14hN6	SM16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23O2	1- 1J24	1- - 239	1- - 714	1- 2J32	O.69	cpw
Antimony	12101	9- -	1O27	J37	947	J.O1	cpw
Arwenic	37O2	92J	J76	J31	JJ7	4.29	cpw
Bsrium	1- 701	96O91	992- 9	9J763	93966	1.69	cpw
Bsrium	1- 301	131- 1-	133112	13JO4J	137491	2.OJ	cpw
BeryRium	901	76O	71O	61O	76O	J.9-	cpw
Biwmuth	2O901	69- 17- 7	3O7JJ29	6336- 31	6922247	2.O4	cpw
Biwmuth	2O9O2	- 23O19J	- 27446J	- O92244	- 2O76- 3	- .O3	cpw
Bromine	J101	74O1	719-	4J1J	71- 3	7.36	cpw
Csdmium	1OJ01	6-	46	7O	7-	16.44	cpw
Csdmium	1O601	- J42	4142	- 336	- 92O	4.9J	cpw
Csdmium	11101	J- 2	92J	922	J94	6.OO	cpw
CsRium	4- 01	631JJ	6J- 31	6J212	63924	O.94	cpw
CsRium	4401	1122J49	11- 7391	1144J9-	11- 4711	O.9J	cpw
Csrbon	1201	- 196J12	- 297J77	- 263239	- 27- - 16	1.73	cpw
Csrbon	12O2	4O177	412- 4	41127	4OJ- J	1.47	cpw
ChRrine	- 701	J1- 22J3	J269217	J4- O7O1	J233- - 4	1.JO	cpw
ChRrine	- 7O2	6172-	61- 3-	61131	61- 76	O.29	cpw
Chromium	72O2	J946	J39-	J6- 9	J39-	1.34	cpw
CobsRt	79O2	1O771	1O714	1O391	1O619	1.42	cpw
Copper	6- O2	- 367-	- JO3J	- 33- -	- 3J21	O.6O	cpw
Dywprowium	1761	14266	149OO	14191	1447-	2.3O	cpw
Dywprowium	176O2	6O37	6O71	6- 42	6176	2.62	cpw
Erbium	1640	1OJ31	117O7	11- 43	11241	2.9-	cpw
Erbium	164O2	4964	4J11	7O44	494O	2.4O	cpw
GsdoRnium	16O01	1- 1J2	129O3	1- 1J2	1- O9O	1.21	cpw
GsdoRnium	16O02	66O7	62- 2	632J	6722	- .93	cpw
HoRnium	1670	996- 3O3	9911O13	9J- 1O69	99O19- 1	O.63	cpw
HoRnium	167O2	424J343	414J446	4O13- 16	41- J13O	2.JO	cpw
Indium	1170	3- 79- - O	31JO227	31O321J	3217791	1.JO	cpw
Indium	117O2	1O1O9- 3	1OO- 4OJ	9771- 9	9J9J2J	- .O6	cpw
Iron	74O2	62- 6- J	612472	62762J	62O73-	1.14	cpw
Iron	76O2	119379- 3	11964J1J	11J9- 936	1194491O	O.- 3	cpw
Iron	73O2	291127	2J2311	2J3J11	2J3216	1.4J	cpw
Krypton	J- 01	269	263	2J9	237	4.- 4	cpw
Lesd	2O601	9912O	1O779-	1O43J3	1O- 163	- .42	cpw

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LB Number :	LB1264O3	5 perstor :	aswl sP
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CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	J2JO3	J6- O-	J63- 9	J72J-	2.7-	cpw
Lesd	2OJ01	- 9O7J4	41O4J7	4O7616	4O222J	2.7J	cpw
Lithium	601	27J37O3	261J2J6	274J11O	27J46- 7	1.- 6	cpw
Msgnewium	24O2	13237O	13- 277	13JO46	1346J4	1.63	cpw
Msngsnewe	77O2	13979J	13J47J	133- 1O	13J476	O.64	cpw
MoRybdenum	9401	7926	7JO1	73O1	7J1O	1.94	cpw
MoRybdenum	9701	1163	1- - -	1227	1242	6.J1	cpw
MoRybdenum	9601	22OO	2OOO	21- 4	2111	4.J2	cpw
MoRybdenum	9301	JOO	97O	J42	J64	J.96	cpw
MoRybdenum	9J01	2O37	2O42	2163	2O97	- .O9	cpw
Neodymium	17O01	24O49	24J73	24J2-	24736	1.J6	cpw
Neodymium	17O02	3392	3946	37O2	3343	2.91	cpw
NickeP	6O02	72JJ	77OJ	7721	74- 9	2.41	cpw
8howphoruw	- 102	2OOO	19OO	21- 4	2O11	7.J2	cpw
8otswwium	- 902	1O1J41	9664J	1O1477	999J1	2.J9	cpw
Rhodium	1O- 01	3- J3- 36	3166J- 9	3174O- 3	32- 6OJ4	1.J1	cpw
Rhodium	1O- 02	- 2962J6	- - O3- 4J	- 1O26- 7	- 2- 742-	- .76	cpw
Scsndium	4701	4971J27	4643113	43O4112	43636J7	- .4O	cpw
Scsndium	4702	171971	17- O96	1446O4	149JJ4	- .O3	cpw
SeRenium	J201	- J	2J	27	- O	22.O7	cpw
SeRenium	3302	13	23	2O	21	24.12	cpw
SeRenium	3JO2	29	- 9	47	- J	21.46	cpw
SiRcon	2J01	- 27OJ47	- 1J939O	- 27- 731	- 2- 14O2	1.12	cpw
SiRver	1O301	77J	6J-	613	619	1O.1O	cpw
SiRver	1O901	627	77J	47J	743	17.- -	cpw
Sodium	2- 02	- 3- - 2	- 792J	- 37O3	- 6922	2.- 4	cpw
Strontium	J601	62491	62724	61993	62- - 3	O.43	cpw
Strontium	JJ01	724919	7- 7961	719319	726J66	1.73	cpw
SuRfur	- 401	29OO3O	292J67	2J62J3	2J9341	1.14	cpw
Terbium	1790 1	1O- 7699-	1O13322J	1OO3O791	1O2O16O4	1.42	cpw
Terbium	1790 2	41244J7	41O2J61	- 9J1674	4O69663	1.J9	cpw
ThsRRum	2O- 01	1O42	1OOO	9OO	9J1	3.42	cpw
ThsRRum	2O701	2427	2237	2413	2- 3-	- .77	cpw
Tin	11J01	2337	2363	2J63	2JO-	1.9J	cpw
Titsnium	4301	21713	216OO	22471	21J76	2.- 3	cpw
Ursnium	2- J01	17633	16169	1766O	17J- 7	1.J-	cpw

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CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	71O2	14394	143- 1	1494J	14J24	O.37	cpw
Ytterbium	13201	- O92	- 4- 4	- 2J4	- 23O	7.24	cpw
Ytterbium	13202	137O	1997	17J-	1336	11.64	cpw
Ytterbium	13601	- 4- 4	- 763	- 379	- 7J3	4.76	cpw
Ytterbium	13602	1132J	12OOO	1147O	11326	2.- 7	cpw
Yttrium	J901	1- 411424	1- O61694	12JJO417	1- 113J44	2.O6	cpw
Yttrium	J902	1- 46917	14O93J9	12J73O3	1- 4343O	4.6O	cpw
Zinc	6602	19- - O	1J9O9	1977O	1926-	1.69	cpw
Zirconium	9O01	1- 2O3	1- 4O3	1- 6O3	1- 4O3	1.49	cpw
Zirconium	9101	2342	- 137	- - 13	- O3J	9.3-	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	68264S	6024Sy	606018	6002y4	SU06	ql s
c n&Amonh	12171	1S818y	11SS6S	1S60E1	1S8- 4y	1Uy1	ql s
c rsenAq	0y72	y62-	y482	yy- 6	yy40	1U28	ql s
BarAum	1- y71	EE6S66	1S- 4S24	EE22y-	1SS0448	2U2E	ql s
BarAum	1- 071	18y4- 01	1804SSy	186- 82-	1864S66	SUy-	ql s
BerhlIAum	E71	106yy	1812S	10E- y	10ES-	1U-1	ql s
BAsmu&G	2SE71	6882604	yy6yyS4	68E11y6	6446444	11U8-	ql s
BAsmu&G	2SE72	- - 6y641	- - 14214	- 268266	- - 16S4S	1U40	ql s
BromAne	8171	016S	0E11	8SS-	06E1	6US1	ql s
RaOmAum	1S871	116-	1142	1101	11y8	1U-S	ql s
RaOmAum	1S671	y818	4884	y0y1	y48y	EUyS	ql s
RaOmAum	11171	1y848	16y2y	1y86y	16S0E	2U4S	ql s
RalqAum	4- 71	- 42S02	- y1842	- 4626-	- 46026	1U41	ql s
RalqAum	4471	y88S4- 1	yE1012y	y0- 8- 22	y84y2E2	1U62	ql s
Rarbon	1271	yEy40- 1	618y000	61- 1- 0y	6SES628	1UE8	ql s
Rarbon	1272	06084	084SS	001Ey	0046S	1US8	ql s
RGlorAne	- y71	101620y6	216- E844	24S160S0	2SE- E06E	16U62	ql s
RGlorAne	- y72	2SSESy	2SE- y6	21- 0S1	2S0E80	- U1-	ql s
RGromAum	y272	1S0y04	1S066y	1S800S	1S8SS-	SU62	ql s
Robal&	yE72	- 6411E	- 62S66	- 662EE	- 64161	SUy8	ql s
RoI I er	6- 72	- 1- 611	- SES02	- 1188S	- 11y21	SU04	ql s
t hsI rosAum	1y671	01y06	04yE1	0- SyE	0- S0y	2US6	ql s
t hsI rosAum	1y672	- 1- 00	- S6y8	- S261	- S06y	1U84	ql s
. rbAum	16471	y00yE	yE20y	y6864	y0E66	2U1S	ql s
. rbAum	16472	2462-	2426E	24- EE	244- S	SU0-	ql s
HaOolAnAum	16S71	66104	66104	64- 22	6yyy0	1U6-	ql s
HaOolAnAum	16S72	- 12E4	- 124S	- SEE-	- 110y	SUy1	ql s
9 olmAum	16y71	EE26646	0811- 8y	E8281y0	E18802E	12UEE	ql s
9 olmAum	16y72	4y2yE80	4- 44SE0	4- 1y- E-	4- Ey1yE	2U6S	ql s
DnOAum	11y71	0- - E4yE	y6yE622	01y1S66	6016016	1- U0S	ql s
DnOAum	11y72	1S4- 204	1S21644	1S18S4S	1S206y-	1U-	ql s
Don	y472	- 284yyy	- - 2100-	- 26S864	- 28ES64	SUE-	ql s
Don	y672	y8801211	6S120808	yE- EEy6y	yE466218	1US6	ql s
Don	y072	1ySS62E	1y2S- y2	1y- 6S41	1y1ESS0	1U10	ql s
Krhl &on	8- 71	- 41	- 6S	- 21	- 41	yU6E	ql s
LeaO	2S671	y- 6- 0S	y40y2E	y- yyy6	y- E818	1U24	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab paml le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAen&paml le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
LeaO	2S071	440S- 6	4y8411	44E8E6	4y1081	1U1	ql s
LeaO	2S871	211S1y2	214yEEy	21SS4- 8	2118862	1U1-	ql s
LA&GAum	671	26- ySy2	21104- 8	26y- 6E0	246802E	12U-	ql s
5 agnesAum	2472	868Ey0	80yy- 8	8y1S48	86y181	1U46	ql s
5 anganese	yy72	E60482	Ey4680	E46401	Ey621-	1U11	ql s
5 olhbOenum	E471	26668	20100	20080	20211	2US6	ql s
5 olhbOenum	Ey71	y818	61S2	y618	y846	4U16	ql s
5 olhbOenum	E671	1S412	EEE6	E8Ey	1S1S1	2U01	ql s
5 olhbOenum	E071	- - y1	- yyE	- - SS	- 4S-	4US-	ql s
5 olhbOenum	E871	E10S	E12S	8608	8E8E	- US1	ql s
NeoChmAum	1yS71	1241yy	126E0S	1212- S	12411E	2U1	ql s
NeoChmAum	1yS72	- 8- 62	- 0- 8E	- 04EE	- 00yS	1U41	ql s
NAqkel	6S72	116S08	11y4y8	1144SE	11y- 1y	SU0-	ql s
PGosl Gorus	- 172	802S	86S-	80y-	86E2	SUE1	ql s
Po&assAum	- E72	4y6128	4y- 0E0	4y40- y	4y4880	SU26	ql s
CGoOAum	1S- 71	01- 4- y4	y662006	6E00S00	6yE14S2	12U26	ql s
CGoOAum	1S- 72	- 44ES8y	- - 2EE61	- - 41006	- - 0- 6S0	1UEy	ql s
pqanOAum	4y71	4ES0882	- 0- 142-	4011E02	44yS426	14U16	ql s
pqanOAum	4y72	16S1E2	1yE- S6	1y4S80	1y0862	2USE	ql s
pelenAum	8271	226E	2- 2y	22y6	228-	1U6S	ql s
pelenAum	0072	2S0	10-	24S	2S0	16U1-	ql s
pelenAum	0872	- 1-	- - S	- - S	- 24	- US-	ql s
pAAqon	2871	16806E- S	162Ey8yy	16- 2112S	164E0E68	1UEE	ql s
pAver	1S071	64ES-	602EE	661SE	661S4	1U81	ql s
pAver	1SE71	61y- S	6240y	6104S	61E1y	SU8S	ql s
poOAum	2- 72	81662	81- 20	8S4- E	81142	SU08	ql s
p&ona&um	8671	- SSESE	- 2S04-	- S0E84	- SE80E	- U24	ql s
p&ona&um	8871	20- 4y86	28ES6S1	28- S10S	28184y2	2U0E	ql s
pulfur	- 471	- 222SS	- 2y88S	- 1E8Sy	- 2262E	SUEy	ql s
i erbAum	1yE71	1S2- 10- 4	0816S- 6	1S2E1S6-	E446208	14UEy	ql s
i erbAum	1yE72	42S00- y	4212yES	42800yy	42- 6S20	1US6	ql s
i GallAum	2S- 71	y8y42	yE822	y80SS	yES21	1U18	ql s
i GallAum	2Sy71	14S1E6	1418- 1	141- 60	1411- 1	SU6S	ql s
i An	11871	1S0S4	11- E0	1SE6-	11S21	- U10	ql s
i A&anAum	4071	1SS0- 1	1SSSy0	E82y-	EE68S	1U2E	ql s
MranAum	2- 871	82- S8	8- 416	8224E	826y8	SU8S	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	2S- - 44	2S- 0yE	2S20E2	2S- 2E8	SU24	ql s
Y&erbAum	10271	10262	102Ey	10E88	10y1y	2U4	ql s
Y&erbAum	10272	84y-	84y8	0840	82y-	4U26	ql s
Y&erbAum	10671	12848	1241y	12y0-	12612	1U04	ql s
Y&erbAum	10672	168Sy	168Sy	16S- 2	16y48	2U0S	ql s
Y&&Aum	8E71	1- EE04E6	11SES2- E	1- 6E- 111	12E26E4E	12U6	ql s
Y&&Aum	8E72	1yy- 28-	1y1- 4S8	140E0E8	1y1y4E6	2U4-	ql s
ZAnq	6672	12E2y1	1204EE	1262y0	12066E	1U18	ql s
ZAqonAum	ES71	6- E- 1	60y48	662y8	6yE12	2U08	ql s
ZAqonAum	E171	14y0y	14042	14y2y	14614	SU08	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	2072	06N6Sh	0h0JS4	06Nhh0	06hS22	SMM1	dDw
qCTb nCE	12171	2hN4	26N4	2610	262N	1M4	dDw
qpwr Ccd	0h72	hSh1	4JJ0	4NJ-	4JN1	1M01	dDw
Bspcmb	1- h71	64- SJh	6- SS- -	624N62	6- 266-	1M4J	dDw
Bspcmb	1- 071	11hSJ10	111J- SS	111N0S-	112J64S	1M0-	dDw
Br pEPmb	J71	2Jh1	2J02	2J- 1	2Jh2	SM0S	dDw
Bcwb mTG	2SJ71	hJS114-	6Jh24N0	6N6N2hS	6h0- J6S	NMMU	dDw
Bcwb mTG	2SJ72	- - 1h- h0	- 0- N422	- - 6SNh1	- 401h4-	6M0J	dDw
Bpmb cOr	N171	0- J4	061J	NS2N	06NS	4M1N	dDw
5 sob cmb	1SN71	101	1N-	21-	1NJ	11M2	dDw
5 sob cmb	1S671	- hSJ	44N4	41N4	4ShJ	12M1	dDw
5 sob cmb	11171	2- S2	21- 0	2S0N	2102	hMh	dDw
5 sPlcmb	4- 71	- 40J- -	- 4622N	- 42NN0	- 4h6N-	SM04	dDw
5 sPlcmb	4471	hJ220NS	hNN412h	h04- 660	hNhS1J1	1M61	dDw
5 spenC	1271	hS00J62	h26- 1Jh	h- 0S20h	h2- 0144	2MM2	dDw
5 spenC	1272	6h- 12	64442	66J0S	6hh0h	1M6	dDw
5 GPmpcOr	- h71	21S0N- h6	2h26JhN1	202J- h06	24h40101	12M1	dDw
5 GPmpcOr	- h72	2102NN	226S21	22NNSh	224S- N	2M6N	dDw
5 Gpmb cmb	h272	h20- 0	h2N44	h21- 1	h2h01	SM0-	dDw
5 nesPT	hJ72	01260	0S1S2	02SJh	011hh	1M41	dDw
5 nDDr p	6- 72	164h1h	1644NN	166- N0	16h1- S	SM66	dDw
&EwDpnwcmb	1h671	0J6NS	0NJ24	00N- 6	0NN14	1M1N	dDw
&EwDpnwcmb	1h672	- - 6SJ	- - 4h2	- - JJS	- - 6N4	SMM2	dDw
Fpecmb	16471	6Nh61	0S16J	6061h	6N0N1	1MMN	dDw
Fpecmb	16472	20042	20- 6N	20612	20h04	SM6J	dDw
HsonPCcmb	16S71	02h2-	0- h62	0- S42	0- S42	SM01	dDw
HsonPCcmb	16S72	- 4JNJ	- 46N2	- 446N	- 401-	SM06	dDw
y nPb cmb	16h71	Nh6N0J-	J00h64N	J04S1J6	J- 61h46	0M4	dDw
y nPb cmb	16h72	4- 262J1	4NJ160S	4- 10SJ2	4h116N4	0M2J	dDw
tCocmb	11h71	6S6J4S-	0S012S0	02S422h	60N1612	JM1h	dDw
tCocmb	11h72	1S1- S1h	1124N02	1S2Nhh0	1Shh4N1	hM04	dDw
tpnC	h472	4S024JN	4SN211J	4Sh6SJS	4S0S2- 6	SM12	dDw
tpnC	h672	02N00S1-	0- 6N1S41	0- 21N400	0- 2hNN4-	SM1h	dDw
tpnC	h072	1J2SJSJ	1Nh1026	1NN06JJ	1NN600N	1MM-	dDw
KpEDTnC	N- 71	- hS	- JS	- 4h	- 62	6MM2	dDw
Lr so	2S671	hS6S- -	hS0S46	4JJ6Nh	hS42hh	SM0J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:24:SJ	&sTsUdP usb r:	S- Nq. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	411226	41NJ4J	41400J	414JNh	SM-	dDw
Lr so	2SN71	1JhNNN6	1JN- h- -	1Jh100N	1J640- 2	SMMh	dDw
LdTGmb	671	2- S- J0N	2h26211	262J0h2	24N6640	6M0J	dDw
9 sgOr wcmb	2472	JhJ1N1	J44N2-	J64S0N	Jh6S20	1M8h	dDw
9 sOgsOr wr	hh72	J4- 2- S	Jh2N2h	J2J2JJ	J410Nh	1M26	dDw
9 nPEeor Omb	J471	21J1N	2S44J	2106N	21- 0N	- M0N	dDw
9 nPEeor Omb	Jh71	62h2	h04-	hJ26	hJ04	4M1	dDw
9 nPEeor Omb	J671	J60J	J- - 0	J6h4	Jhh6	1MJ	dDw
9 nPEeor Omb	J071	41S1	- - 42	- 642	- 6Jh	1SM4	dDw
9 nPEeor Omb	JN71	JN2J	J40N	Jh0S	J626	1MMJ	dDw
ur noEb omb	1hS71	1- - 02N	1- 1- J1	1- 10SS	1- 220-	SM6	dDw
ur noEb omb	1hS72	4SSJ0	4SS16	4S0SJ	4S204	SM4	dDw
ucdkr P	6S72	- J1N4	- N0- 6	- NNNS	- NJ- -	SMMJ	dDw
8 GhwDGhpmw	- 172	0J11	00- 6	0NN6	0N44	1M21	dDw
8 nTswwcmb	- J72	- - 1J- 4	- 2NNh4	- - 14NS	- - S0h6	SMMS	dDw
. Ghocmb	1S- 71	6Sh2J- S	6NhhNN1	01- - h1h	66NS00h	NM4S	dDw
. Ghocmb	1S- 72	- - N10h2	- 66N- 2h	- 41- JSh	- 4N0JJ4	4MMS	dDw
I dsCocmb	4h71	4SN- S4N	40- NS- 4	400020h	4h- 20N6	NM6S	dDw
I dsCocmb	4h72	1h4J1J	10- 241	16S22N	1620J6	hM0J	dDw
I rPPCcmb	N271	264	10h	212	210	2SMM2	dDw
I rPPCcmb	0072	14-	16-	J-	1- -	20M8h	dDw
I rPPCcmb	0N72	1- 4	1- 1	114	126	NMM4	dDw
I dPdnC	2N71	10602066	106NJ4N-	10N64h00	1004220h	SM0S	dDw
I dPr p	1S071	- S42	- 4h1	- ShS	- 1N1	0M4	dDw
I dPr p	1SJ71	- S60	2N2h	- 1N4	- S2h	6M84	dDw
I nocmb	2- 72	1144Sh	1121- N	114SN6	11- h4-	1M8N	dDw
I TpnCTcmb	N671	- - 6464	- - 1S41	- - - ShN	- - - h21	SMM2	dDw
I TpnCTcmb	NN71	2Jh- 06S	- S12J0h	2J0J006	2JN210S	1M8S	dDw
I mPPmp	- 471	2J1060	2J4- 20	2J4J- 1	2J- 60h	SMM0	dDw
Ar pecmb	1hJ71	Nh- 20hN	J01SNJ0	JJ6h- - 2	J4S2JJh	NMM-	dDw
Ar pecmb	1hJ72	410Nh- N	461h00-	426N- h0	4- h422-	hMMS	dDw
AGsPPcmb	2S- 71	- SSS	2642	- SSJ	2NN4	0M26	dDw
AGsPPcmb	2Sh71	6J00	0S44	02- 6	0SNh	1MMJ	dDw
AdC	11N71	Nh- 6	Nh0S	Nh0S	NhhN	SM22	dDw
AdSCcmb	4071	0S6hS	0SJh1	6J0h-	0S4h1	SMMN	dDw
RpsCcmb	2- N71	JJ2N0	1S10S6	1S11h2	1SS01h	1M26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h172	NJ- 1S	JSSS1	NJ0S-	NJ601	SMJ	dDw
YTTr pe omb	10271	21ShJ	21h- h	21S60	2122S	1M2N	dDw
YTTr pe omb	10272	1S6- 2	1SS4-	JJ26	1S2SS	- M01	dDw
YTTr pe omb	10671	14N2h	14J42	1hSS1	14J2-	SM0S	dDw
YTTr pe omb	10672	1020-	1JS2S	106S1	10J64	hM10	dDw
YTTpomb	NJ71	121- 2S26	1- N42640	1- 0104- 0	1- 2- S0S4	0M21	dDw
YTTpomb	NJ72	1h1N6J0	16S- 0Nh	1hhN644	1h6S- 06	2M0-	dDw
ZdCd	6672	N44NS	N2J44	N24S1	N- 20h	1MS	dDw
ZqpdnComb	JS71	4JJJJ	hS1N-	4J6Sh	4JJ2J	SMJ	dDw
ZqpdnComb	J171	11hJ0	11S1-	1S61-	11S04	4M40	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMS0	&8mTmC:MwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMv8 :u wb r :J	S- . qF UMR0

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cOcmb	2072	604 24	660- 4-	66 22.	66. S- 2	SR0-	dDl
qCTb nCE	12171	4 06	4- S1	4 26	446a	- R2a	dDl
qpl r Ccl	0 72	6 . 4	6- 20	64SS	644S	2R14	dDl
Bwpcmb	1- 71	4aS S4	4. 244	4a4020	4a6a2	1R 6	dDl
Bwpcmb	1- 071	a - 1Sa	a06. 6S	a6- S66	a64- 0a	1R .	dDl
Br pE8cmb	. 71	- Sa6	- 16	- 1S.	- 12S	1R S	dDl
Bdl b mTG	2S. 71	600 . S2	6. 10111	6. 616 -	6aa4aa.	1R41	dDl
Bdl b mTG	2S. 72	- 4 21. -	- - 62664	- - 4- a2S	- - a6226	1R01	dDl
Bpmb cOr	a171	0120	0620	0 20	0420	- R 6	dDl
9 wob cmb	1Sa71	22	242	22.	2- 2	- R04	dDl
9 wob cmb	1S671	40S.	46 .	42. 2	4 4	RSS	dDl
9 wob cmb	11171	26	2 1a	2 1.	2 64	- RSa	dDl
9 w8lcmb	4- 71	01. 42a	010. . .	01 1- 1	010 1.	SR S	dDl
9 w8lcmb	4471	121a . S4	11. 0a 16	1100 - - S	11. 0. . 10	1R01	dDl
9 wpenC	1271	610a611	6- 4- 021	64a. . a	6- - 04- S	2R46	dDl
9 wpenC	1272	0aSa-	aSa 6	0aS. 1	0. S1S	2RS2	dDl
9 G8npcOr	- 71	21 1SSS.	24. 06 12	204. S. .	246 . 102	12R1a	dDl
9 G8npcOr	- 72	21 11	22S62S	22622-	22S0a4	2R4-	dDl
9 Gpmb cmb	272	6a 6	6204	6. a-	60S4	SR60	dDl
9 new8T	. 72	62- a6	6102-	612. 4	61aS1	SRa.	dDl
9 nDDr p	6- 72	14S 0.	14Sa1S	1- . . .	14S4 S	SR 1	dDl
&El Dpnl cmb	1 671	a- 62.	a- 0a	a26- .	a- 2a2	SR60	dDl
&El Dpnl cmb	1 672	- 4 S	- S- 6	- S- -	- 10-	SR6a	dDl
Upecmb	16471	66S2-	60- 46	66266	66 4	1RS6	dDl
Upecmb	16472	26a60	201Sa	26024	26. SS	SR02	dDl
Hwon8Ccmb	16S71	01241	0- 2a6	0- 2.	026a	1R0-	dDl
Hwon8Ccmb	16S72	- - 1-	- 4 S	- S2-	- 262	SR62	dDl
h n8b cmb	16 71	. a0- . 4	. a. - 41a	. . 1 2 S	. a. 4Sa0	SR21	dDl
h n8b cmb	16 72	441- 0 4	4412S	4- - . 200	4- aa- 62	SR 0	dDl
tCocmb	11 71	6. a a21	0SSS. 44	6. a- a00	6. . S214	SR1-	dDl
tCocmb	11 72	1S26S2.	1S2 4. 0	1S20- 1S	1S2620.	SRS.	dDl
tpnC	472	- 2 - 2	- 2a62- 6	- 2. 4202	- 20a611	SR6-	dDl
tpnC	672	. SS. 1. 2	. 44Sa44	. SSaa 4	. 1 2. 6-	SR42	dDl
tpnC	072	1 - - . 14	1 40 a6	14. 014	1 2 0- a	1R06	dDl
KpEDTnC	a- 71	- 20	- 0	- 2	- 2	6R06	dDl
Lr wo	2S671	- aSS20	- . 1Sa0	- aa S-	- a6 - .	1R S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.uwb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMS0	&8mTmC:MwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMv8 :uwb r :J	S- . qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
Lr wo	2S071	- 16466	- 22- S6	- 1. 41.	- 1. - . 0	SR 1	dDl
Lr wo	2Sa71	14a. - 0	1 140S2	1 24a 1	1 S. 6. 0	1R2S	dDl
LdTGmb	671	2 44261	2611aS0	2 00. 61	2 0aSS.	1R 1	dDl
y wgCr l cmb	2472	16S 042	1 0- 061	1 aa6-	1 0. 4	1R 2	dDl
y wCgwCr l r	72	1a20- 16	10. 2 S6	1a 6 - 6	1a2 4 -	1R06	dDl
y n8Eeor Cmb	. 471	1a4S4	1a022	1a0aa	1a6- a	1R1S	dDl
y n8Eeor Cmb	. 71	1- - 4S	1- 4. a	14S16	1- 61a	2R .	dDl
y n8Eeor Cmb	. 671	1606S	1626a	1611a	16- a2	2R8S	dDl
y n8Eeor Cmb	. 071	a0 -	a. a0	a261	a660	4R20	dDl
y n8Eeor Cmb	. a71	21- a4	21242	2216S	21 .	2R2.	dDl
u r noEb cmb	1 S71	1- . - - 0	14 S-	14- 2. .	142 0	2R8S	dDl
u r noEb cmb	1 S72	44- 60	442aS	441. 6	442a1	SR1.	dDl
u cdkr 8	6S72	- S1-	- 1 -	- 400.	- 4. a2	SR 4	dDl
NGhl DGhpml	- 172	. - 0a	. 1- 6	. - 0S	. 2.	1R4a	dDl
NnTwl l cmb	- . 72	4a- 4. 2	400. Sa	4. 26- 2	4a4600	1R -	dDl
F Ghocmb	1S- 71	012aaSa	0Sa1124	0Sa24S0	0S. 0446	SR a	dDl
F Ghocmb	1S- 72	- - aS 20	- 4- S6	- - - 6.	- - a. 062	1R22	dDl
l dwCocmb	4 71	46 106-	461 104	4 01- 16	46120 1	SRa0	dDl
l dwCocmb	4 72	1 6- 4	1 . S0.	1 66a.	1 0- 04	SR 4	dDl
l r 8 Ccmb	a271	20	2 2	262	26-	4R2a	dDl
l r 8 Ccmb	0072	16S	1. 0	10-	100	1SR 1	dDl
l r 8 Ccmb	0a72	1- 6	122	12a	12.	R46	dDl
l 8dnC	2a71	1 0- 0620	1 a S4S	1 00664-	1 6. . 00S	SR64	dDl
l 8vr p	1S071	- 660	- 06	- 0 .	- 660	2R S	dDl
l 8vr p	1S. 71	- .	- 6 .	- 20	- 4. a	R6.	dDl
l nocmb	2- 72	1S- . 1a	1S24Sa	1S224a	1S2a a	SR S	dDl
l TpnCTcmb	a671	- - 040	- - - 000	- - 06a0	- - 0- 0	SR a	dDl
l TpnCTcmb	aa71	- S64a. 2	- SS- S4a	2. 22-	- SS0021	1Ra-	dDl
l m8mp	- 471	414S1	414. 0-	4164.	41 161	SR S	dDl
Ar pecmb	1 . 71	1SSSS 4	1S1S4S4	1SS2 6.	1SS4- 42a	SR 4	dDl
Ar pecmb	1 . 72	4- 416. a	420S04a	4- a66. .	4- - - S4a	1R	dDl
AGw8mb	2S- 71	2. 60	- S0	- 12	- S 6	2R6	dDl
AGw8mb	2S 71	0 S2	01. 4	0- 11	0- - 6	2R12	dDl
AdC	11a71	1S. 6	142-	1 6	1- 61	SR40	dDl
AdTwCcmb	4071	11. . 41	11. 26S	12SSSa	11. 0- 6	SR	dDl
5 pwCcmb	2- a71	1- 2. S	1- S4SS	1- 22.	1- 1aa2	1R8SS	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4467S	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SMS0	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J20JSa	&wTwMv8 :u wb r :J	S- . qF UMRb

NwpwbrTrp	ywl l	9NI 1	9NI 2	9NI -	9NI yrwC	9NI FI &	5CdT
VwOwocmb	172	a0S06	a6. a2	a6 4-	a6a60	SR-	dDI
YTTr pecmb	10271	2SS. .	1. S4a	2S2a-	1. a1S	- R6	dDI
YTTr pecmb	10272	1SSa0	. a- 2	. 406	. 0. a	- R1-	dDI
YTTr pecmb	10671	1- 0S0	144SS	144- -	141aS	2Ra.	dDI
YTTr pecmb	10672	10 1	104S1	10- - .	104- S	SR62	dDI
YTTpcmb	a. 71	14S2aS22	14S011.	1- 6S1. 46	1- . SS- aa	1Ra0	dDI
YTTpcmb	a. 72	1 24. - 6	1 2 66	1 0166	1 44aa.	1R1-	dDI
ZdCd	6672	1S. - 0.	1S. 0. .	11S4S	1S. a61	SR40	dDI
ZqpdnCcmb	. S71	2a6aS	2a - a	- SSa4	2. 1S1	2R4	dDI
ZqpdnCcmb	. 171	6aa	6a20	6 6S	60 0	2R0	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4- 800-	4- 6060	4- 18y1	4- y0h0	SU82	ql s
c n&AmonE	12171	41yh	4- 84	4y18	4- y4	4U16	ql s
c rsenAq	0y72	46S6	4422	428y	44- 8	- U6-	ql s
BarAum	1- y71	- 1- 00h	- 1yhS2	- S80h4	- 1282y	1U10	ql s
BarAum	1- 071	y6S4h6	yy4212	y4882h	yy4y12	1USy	ql s
BerEIAum	h71	22- 2	2- 22	2- 12	228h	2U16	ql s
BAsmu&G	2Sh71	6- h0- 42	0S860SS	600hS28	60y4- y0	yU11	ql s
BAsmu&G	2Sh72	- 28y612	- - 481h6	- - h2Sy4	- - 41hy4	1U6S	ql s
BromAne	8171	61S2	6y4-	6y68	64S4	4U1S	ql s
RaOmAum	1S871	188	2- 8	2- -	21h	12U64	ql s
RaOmAum	1S671	4160	4y18	4yh-	4426	yU1-	ql s
RaOmAum	11171	206y	20- 6	2yyh	2686	4U16	ql s
RalqAum	4- 71	681yhy	6824- 2	68yy6y	68- 1h8	SUJ1	ql s
RalqAum	4471	11- 2h2S4	11- 210S2	1188SySy	11y1S40S	2U08	ql s
Rarbon	1271	46yy420	48y42S4	481h- 4h	4006- 26	2U22	ql s
Rarbon	1272	6S- 16	y014y	6S6- y	yh- 6y	- U2y	ql s
RGlorAne	- y71	2S0414Sy	24- 008hS	2642- 624	2- 8406- h	12USS0	ql s
RGlorAne	- y72	2S406S	2116S4	211621	2Sh- 2h	1U8h	ql s
RGromAum	y272	- 6824	- 6060	- y00y	- 64yy	1U62	ql s
Robal&	yh72	- 6h14	- yy18	- y018	- 6SyS	2U1S	ql s
RoI I er	6- 72	8yy- -	8yh- 2	8y4- y	8y6- -	SUJ1	ql s
t EsI rosAum	1y671	66616	68S82	60h4S	60y46	1U2S	ql s
t EsI rosAum	1y672	28620	286h1	286y1	286y6	SU11	ql s
. rbAum	16471	yyy0y	y4- 2S	yyS48	y4h81	1U1y	ql s
. rbAum	16472	22h2S	2264h	220- -	22060	SU61	ql s
HaOolAnAum	16S71	yh204	y861-	yh818	yh2- y	1USS2	ql s
HaOolAnAum	16S72	28404	28S- -	281- 6	28214	SU82	ql s
9 olmAum	16y71	h- 4hh88	h884yyy	h618266	h6106S-	2U08	ql s
9 olmAum	16y72	4200h88	4- 8- hS4	42h0161	4- 1h684	1UJ1	ql s
DnOAum	11y71	60S4h0S	0180- hh	0S16660	6h6h608	- Uy1	ql s
DnOAum	11y72	hhS6S2	1SShS2-	1S20201	1SS8h6y	1U82	ql s
Don	y472	2240Sy-	2- S01h4	224022h	22601yh	1Uy-	ql s
Don	y672	4S601620	4Sy- 8666	4S2S- 8hy	4S401- h6	SU6S	ql s
Don	y072	h0S8S8	h60y22	h640y2	h606h4	SUJ1	ql s
KrEI &on	8- 71	- 21	- - 0	- S6	- 22	4U86	ql s
LeaO	2S671	2- 411-	24S- S0	228- 24	2- 4248	2Uy6	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	1h4- 44	1h4186	1h22SS	1h- y00	SU62	ql s
LeaO	2S871	h1S4h8	h26- 00	h1S- 64	h1y046	1US1	ql s
LA&GAum	671	24S1hS6	2y8yS06	2y412h8	2ySh420	- U81	ql s
5 agnesAum	2472	14h- 6y-	1ySyy- S	148hy11	14h62- 2	SUy6	ql s
5 anganese	yy72	11122S4	11122Sh	1Sh0yS8	11S0- S0	SU00	ql s
5 olEbOenum	h471	16- 6S	16861	16- 4-	16y21	1U08	ql s
5 olEbOenum	hy71	14010	1y2Sh	14- 04	14060	2U84	ql s
5 olEbOenum	h671	16hh4	10- - 6	1016h	10160	1USS	ql s
5 olEbOenum	h071	h4y4	hh01	h20S	hy6y	- U8S	ql s
5 olEbOenum	h871	2- 42S	24- - 1	2- - 2h	2- 6h-	2U-4	ql s
NeoOEmAum	1yS71	1128yS	11644-	11421y	114yS-	1Uy8	ql s
NeoOEmAum	1yS72	- 6SS2	- 6y1-	- y48S	- yhh8	1U4-	ql s
NAqkel	6S72	22y28	21h64	21hyS	22140	1U4h	ql s
PGosI Gorus	- 172	68h4	6226	6820	664h	yUy-	ql s
Po&assAum	- h72	2h682h	2h186h	2hShyh	2h- 21h	1US8	ql s
CGoOAum	1S- 71	66y6SS-	0- S- ySh	6h48648	6h6h- 86	4U6y	ql s
CGoOAum	1S- 72	- 2- 21S-	- 2612h8	- - - hS6-	- 200488	1U6h	ql s
pqanOAum	4y71	4- 162- y	401y20S	40y2111	4yh4y- h	yU26	ql s
pqanOAum	4y72	1yS26S	1y- 041	1y- S40	1y2- 4h	1U21	ql s
pelenAum	8271	212	220	1h6	212	0U-0	ql s
pelenAum	0072	1SS	12S	11-	111	hU10	ql s
pelenAum	0872	1- S	11-	1S6	116	1SU61	ql s
pAAqon	2871	1S0688SS	11S2hSSy	11S46641	1Sh4814h	1U42	ql s
pAver	1S071	28yS	- 2yS	- 2yh	- 12S	0U48	ql s
pAver	1Sh71	- S2y	20yh	2h0y	2h2S	4U86	ql s
poOAum	2- 72	1S26y2	1S1h22	hhhy8	1S1y11	1U-0	ql s
p&ona&Aum	8671	2168h2	210y4y	211S14	21y1yS	1U60	ql s
p&ona&Aum	8871	1h01- 44	1h6hyhy	1h6- S62	1h68SSS	SU22	ql s
pulfur	- 471	- 4- h6y	- ySh60	- y10h6	- 48hSh	1U2-	ql s
i erbAum	1yh71	h2S0y06	1S2S1hS6	1SS2hh04	h81- 1y2	yU42	ql s
i erbAum	1yh72	4210SS6	42- 6222	4- 41h10	426yS48	1Uy8	ql s
i GallAum	2S- 71	22yS	2S42	1h42	2S08	0Uy0	ql s
i GallAum	2Sy71	4806	y0- y	y21S	y20-	8U21	ql s
i An	11871	h4S-	hS- 0	h02h	h- hS	- U6h	ql s
i A&anAum	4071	h0016	h8168	1SS00S	h888y	1U60	ql s
MranAum	2- 871	8y168	86142	8- 8- y	8yS48	1U-6	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	y- y46	y- y26	y- 620	y- y66	SU1S	ql s
Y&erbAum	10271	1601h	10S61	10S4y	16h42	1U14	ql s
Y&erbAum	10272	842S	8264	0h86	822-	2U60	ql s
Y&erbAum	10671	11422	122- h	12S- h	11hSS	- Uy8	ql s
Y&erbAum	10672	16100	16S00	16616	162hS	1U06	ql s
Y&&Aum	8h71	128- 12yy	1- 80- 1S0	1- y002y8	1- 4202S0	4U5S	ql s
Y&&Aum	8h72	14h1y14	1481661	1482242	148y1- h	SU-0	ql s
ZAnq	6672	1Sy- 88	1S0y02	1S64h0	1S6486	1US-	ql s
ZAqonAum	hS71	22S4-	220- 6	2266h	2248-	1U0S	ql s
ZAqonAum	h171	yS84	46yh	4h84	4hSh	4Uy-	ql s

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Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	682- 66	68S4h0	684h0S	68246h	SU S	ql s
c n&AmonE	12171	606S	026y	01h2	0S6S	- U00	ql s
c rsenAq	0h72	1S84-	1S884	1S081	1S8- 6	SU48	ql s
BarAum	1- h71	h1hh11	h2hhh4	h22y- S	h21- - 2	1USS	ql s
BarAum	1- 071	y2S02-	y146- 6	y2y4S8	y21h8y	SU81	ql s
BerEIAum	y71	- S80	2y40	- S82	- S- y	2U61	ql s
BAsmu&G	2Sy71	hy- 2208	6y21h80	0S- - 2S6	662yS24	yU14	ql s
BAsmu&G	2Sy72	- 20Sy40	- 202hS4	- 260222	- 20S224	SUS8	ql s
BromAne	8171	0S8h	04S2	0444	0- 1S	2U68	ql s
RaOmAum	1S871	260	246	- S8	204	11U6-	ql s
RaOmAum	1S671	- 006	4h06	4026	4- hy	11U02	ql s
RaOmAum	11171	- y2y	41S-	- 824	- yh2	- Uh6	ql s
RalqAum	4- 71	2h- 410	2h- 0- 1	2h404-	2h- y64	SU20	ql s
RalqAum	4471	428hSyh	42S0828	42y4ShS	4262- 24	1U11	ql s
Rarbon	1271	h446h60	h4y1622	h62y6- 0	hh226Sy	1U0-	ql s
Rarbon	1272	688- 6	0S- 61	60y82	6yS6S	1U04	ql s
RGlorAne	- h71	21y04- S0	2hyh4h68	208- hy- 8	2h2h4y- 8	11U8h	ql s
RGlorAne	- h72	224S22	22- 81S	2- 1hSh	226446	1Uy4	ql s
RGromAum	h272	- 0h4-	- 0282	- 6y04	- 0266	SU06	ql s
Robal&	hy72	- y6h8	4Sh68	- y- 64	- y864	1Uh0	ql s
RoI I er	6- 72	114h22	11- y0S	11402y	1144S0	SU-4	ql s
t EsI rosAum	1h671	804yh	86681	80y14	80- 6-	SU02	ql s
t EsI rosAum	1h672	- hh21	- h614	- 44y1	- h2Sy	1U00	ql s
. rbAum	16471	6h4S-	66- 10	6- 661	6h120	2USS0	ql s
. rbAum	16472	2h6y2	2h00h	2hy22	2h0y6	SU4h	ql s
HaOolAnAum	16S71	0- 680	0hSy6	0- 2yh	04S26	1U28	ql s
HaOolAnAum	16S72	- 4062	- h116	- 46- 2	- 48- 0	SU02	ql s
9 olmAum	16h71	8- 2- 14-	yyySSy0	yy1- 6S4	y4S8y48	1SUSS	ql s
9 olmAum	16h72	4220- 0h	4241488	426h02-	4244862	SU46	ql s
DnOAum	11h71	hyhy- 14	0S- S480	028482S	60h82S0	1SU41	ql s
DnOAum	11h72	y840hS	yy26- 8	yy0hh4	yy1640	SU6h	ql s
Don	h472	26S41yy	261h86y	2hyh- 1h	26Sh128	SU4S	ql s
Don	h672	40SS24- 0	46yy1h0-	4h66h88-	46hh- 2y8	1U6h	ql s
Don	h072	11S061-	1111208	11Sh64-	11S8108	SU26	ql s
KrEI &on	8- 71	- 2S	- hh	- 26	- - 4	hUhy	ql s
LeaO	2S671	1S- 0y4S	1Shh012	1S108h2	1S- 0168	1U8-	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	8h0SS6	8h28y-	86h- 8-	8h8420	SU04	ql s
LeaO	2S871	42hh01-	418264-	41826y0	42S0S10	1USS	ql s
LA&GAum	671	2- 2h18y	2hh0282	26y2S- S	2h248- -	0Uh	ql s
5 agnesAum	2472	040- 66	0- 0S20	026y46	0- 011-	1Uy	ql s
5 anganese	hh72	1S8h2Sh	1S0yS68	1S6yy62	1S08S08	SU01	ql s
5 olEbOenum	y471	10- - 6	10612	161h1	10S- -	4Uh6	ql s
5 olEbOenum	yh71	11Sy6	1S- - 0	1S4- 8	1S624	- U88	ql s
5 olEbOenum	y671	1- 4yy	126h6	120y8	12y84	- U40	ql s
5 olEbOenum	y071	616S	6y8h	64h2	6h- 2	6U41	ql s
5 olEbOenum	y871	1661S	10- 11	10411	10111	2Uhh	ql s
NeoOEmAum	1hS71	1h466-	1h182y	1h8- h8	1h4yhS	2U11	ql s
NeoOEmAum	1hS72	40444	46S66	464yS	46660	1Uh1	ql s
NAqkel	6S72	2164S	2146S	21- S-	21460	SU0y	ql s
PGosI Gorus	- 172	6- y-	664-	628h	644S	2U8h	ql s
Po&assAum	- y72	486S0y	486y- -	4yS0Sh	480yS6	SUhS	ql s
CGoOAum	1S- 71	hy6y60y	0SSS404	0- - S8S8	6066y80	1SU4y	ql s
CGoOAum	1S- 72	- 2S2h2-	- 2488S1	- 20y2hh	- 24- h26	1U1y	ql s
pqanOAum	4h71	- 8- 2206	46420yh	486- hSh	44461y2	12U21	ql s
pqanOAum	4h72	1h4hh6	1h26h2	1h- h2h	1h- h08	SU62	ql s
pelenAum	8271	1hh	1SS	1hh	1- 0	2- U2-	ql s
pelenAum	0072	16-	16-	1h-	16S	- U61	ql s
pelenAum	0872	111	y2	y0	1SS	yU8h	ql s
pAAqon	2871	144- h022	142- 64S1	141yy11-	142yS412	SU8y	ql s
pAver	1S071	8611	8h61	8008	86hS	1U1	ql s
pAver	1Sy71	0yy4	8- 86	8- 28	82- 6	2Uh0	ql s
poOAum	2- 72	01h26	0104-	021S-	010y1	SU41	ql s
p&ona&um	8671	1y2y6-	1y11- 1	18y6hy	1y12h1	SU80	ql s
p&ona&um	8871	10- - 24S	10- 42h6	102S14h	102y214	SU46	ql s
pulfur	- 471	- SyyS4	- S44y4	- S40- 8	- S6- 0y	1USS	ql s
i erbAum	1hy71	848S246	1SS2S- 20	1S4yh61h	y66h- y6	1SUyS	ql s
i erbAum	1hy72	4141y4y	4114814	4164- yh	414S- 86	SU6S	ql s
i GallAum	2S- 71	- S- 4	- 2Sy	- 242	- 162	- Uh4	ql s
i GallAum	2Sh71	0- 1y	0444	0h00	0440	1U04	ql s
i An	11871	2yy10	- S86y	- 1108	- S6h4	2U14	ql s
i A&anAum	4071	1h4h26	1hh- 2y	1h4- h8	1h40- 8	SUJ4	ql s
MranAum	2- 871	0hS- S	0h88h	0h- 4S	0h418	SUh0	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	0621h	0hyS-	0h444	0h8h4	SU1	ql s
Y&erbAum	10271	184- S	180Sh	10y2y	18- hh	2U14	ql s
Y&erbAum	10272	yS48	yS0h	y1h-	ySy2	SU6S	ql s
Y&erbAum	10671	1- 26h	1- 624	12y2-	1- 201	2U64	ql s
Y&erbAum	10672	162y4	16220	16y8y	16hS-	2U16	ql s
Y&&Aum	8y71	11h200y6	1- 0- 0y46	142841- h	1- 18- 2y2	11U$0	ql s
Y&&Aum	8y72	1hS2y40	140- 1h0	140h0S4	148- y- 6	1U11	ql s
ZAnq	6672	1S4- S0	1S4y2h	1Sh42h	1S4886	SU1-	ql s
ZAqonAum	yS71	2y8yy	- Sh42	2y482	2yy04	1U08	ql s
ZAqonAum	y171	6000	6h8h	6y00	608S	2U3y	ql s

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t N:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t N:&T :J	y h SM1S	T pNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobqpn:J	2S2- 7S0712:14J- aJas	TI il MqN:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q qpe	2072	40s- a4	404S60	40- 442	40a621	SR6	Q P
d. iqe C. E	12171	4460	a2as	4s1	4 2	R14	Q P
dIPp. qO	0a72	s22S	s1s1	s11S	s104	SR62	Q P
BI lqpe	1- a71	- 40s 0	- a- 162	- a4s6S	- a2S- 6	1RS-	Q P
BI lqpe	1- 071	6S- a0	62066a	61- s1	61aS4a	1Rs6	Q P
BpIENqpe	s71	211a	2166	21s1	21a0	1R S	Q P
BqPe biG	2Ss71	6s - 10	6sS004s	60sS14s	6 s- sSa	1R42	Q P
BqPe biG	2Ss72	- 24626	- 2a0 0	- - 2S- 44	- 204 - S	1R22	Q P
BICe q p	171	6a a	0S6S	021S	6sa2	4R0S	Q P
9 I ne qpe	1S 71	2a4	246	2aS	2aS	1R60	Q P
9 I ne qpe	1S671	44 4	4- 4	46a1	4aS6	2Rss	Q P
9 I ne qpe	11171	- 1-	- 10s	- 1S-	- 14S	1R22	Q P
9 I NQqpe	4- 71	160as-	1011 s	10Sa- 2	16s001	1R1-	Q P
9 I NQqpe	4471	2 sS2- 0	2s460- 1	2s6- 216	2s- - - sa	1R S	Q P
9 I Ir C.	1271	- 0114- 6	- 00 a4-	- 0aa466	- 04 4 2	SR31	Q P
9 I Ir C.	1272	460aS	4a6 s	40S a	46aS	1Ra0	Q P
9 GNQIq p	- a71	22- ssas	26a20S62	2s21aas4	26S4041	1- R1	Q P
9 GNQIq p	- a72	2- SsS4	2- - 4 0	2- - 6S2	2- 266a	SR66	Q P
9 GICe qpe	a272	20s20	20 44	20aSS	200a0	SR 2	Q P
9 Cr I N	as72	2sS46	200- 4	2 S 4	2 2	2R4S	Q P
9 Ct t pI	6- 72	s4- - 1	s440a	s- - 24	s4S4-	SR60	Q P
TEPt ICPqpe	1a671	06- 1s	0s1SS	06s1-	00444	1R s	Q P
TEPt ICPqpe	1a672	- - 06s	- - sS	- - a22	- - 020	SRa6	Q P
UIr qpe	16471	a420	a421s	a41 6	a422	SRSs	Q P
UIr qpe	16472	221s2	21 2	2100a	21s- 1	1RS4	Q P
HI nCNqqpe	16S71	60446	6s4- 1	6 2	6 a6	1R4	Q P
HI nCNqqpe	16S72	- - 626	- - 1aa	- - - 22	- - - 60	SR02	Q P
h CNe qpe	16a71	ssSa440	s 2s224	s002S60	s - aa0s	SR6	Q P
h CNe qpe	16a72	4- S6S -	422a4a4	422- 21s	42a1a a	1R1	Q P
& nqpe	11a71	010 - S	0- 4104	01- 6S02	021 01S	1RaS	Q P
& nqpe	11a72	s 6- a	1SSSS01	ss2 s2	ss- 66	SRa	Q P
&C.	a472	1s- - aSS	1s1Sa- 2	1s2a1s1	1s2- S04	SR6S	Q P
&C.	a672	- a210- S1	- 41- 1- 6a	- 40 26	- 401S4a1	1Ra0	Q P
&C.	a072	2aa- 2	144ss	1 1ss	1s41S	SR6s	Q P
KIEt iC.	- 71	2ss	- SS	- 01	- 2-	12R4	Q P
LpI n	2S671	sa22S	sSS4S-	sS11S2	s sS	SR6	Q P

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t Np:&T :J	y h SM1S	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- 7S0712:14J- aJas	TI il MdNp:mI e p:J	S42dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	061ssa	04ss6	0a- s22	0aa2sa	SR 1	Q P
LpI n	2S 71	- 0- 2- 4	- 0461- s	- 6s1s04	- 02- 4 0	SR06	Q P
LqGdpe	671	2620a2S	261S 26	26S- 0s4	2614S46	SR40	Q P
y I g. pPdpe	2472	a2a21S	a1a066	a1- 020	a1 2- 4	1R1	Q P
y I . gI . pPp	aa72	0S1026	6sS0- a	6s21- -	6s4 6a	SR 6	Q P
y CNEr np. be	s471	1S- - 0	1S6aa	1S- - 0	1S44-	1R0a	Q P
y CNEr np. be	sa71	661S	60a2	6a- a	66- 2	1R66	Q P
y CNEr np. be	s671	011	62S	0a-	6sa	SR0s	Q P
y CNEr np. be	s071	4a1	44as	4160	4- 1	4R2	Q P
y CNEr np. be	s 71	11S46	1Sa0s	1Ss6-	1S 6-	2R2s	Q P
mpOnEe dpe	1aS71	144 4	14ss41	146Ss-	146s61	1R 1	Q P
mpOnEe dpe	1aS72	466S4	46SS2	460S	464-	SR 2	Q P
mqOkpN	6S72	1642-	161- -	1a2aa	1as- 0	- R 2	Q P
uGCPt GCIbP	- 172	- 0 4	- s 4	- 6a1	- S6	4R41	Q P
uCI PPdpe	- s72	2 0saS	2 a401	206 -	2 - 42S	2RS6	Q P
FGCndpe	1S- 71	01aS22S	02saa60	01 S6-	02112 -	1RSa	Q P
FGCndpe	1S- 72	- 2s0-	- - 1S -	- 2aa- 64	- 2 0 0s	SR	Q P
DCI . ndpe	4a71	46 42 1	4 1ss6s	46s- 446	40- 2a6a	1R6S	Q P
DCI . ndpe	4a72	1a2a2	1a21 S	1aSa -	1a1064	SR6	Q P
DpNp. dpe	271	1- a	11a	2	111	2- R s1	Q P
DpNp. dpe	0072	14-	1- 0	22S	160	20R0	Q P
DpNp. dpe	0 72	4	12-	110	1S	1sR44	Q P
DqNqC.	2 71	1- S4- - 6-	1- 4Sa a	1- 2 0221	1- 24a4sS	1R4S	Q P
DqNpI	1S071	a01S	a2as	a04-	aa01	4R a	Q P
DqNpI	1Ss71	a2Ss	a1as	a11	a162	SR s	Q P
DCndpe	2- 72	01aa1	02a40	026- s	02246	SR 4	Q P
DiIC. idpe	671	11a11a	1102a6	110- 16	116a62	1RS	Q P
DiIC. idpe	71	1S2- 2 0	1S160s	1SSa416	1S1a160	SR s	Q P
DbNbI	- 471	20a0sa	20a244	20 S4	206- 62	SRa4	Q P
cpIr dpe	1as71	1S1- s- - 1	1SS04S- 6	sssS002	1SS6 S46	SR04	Q P
cpIr dpe	1as72	421SS- a	4124aS4	424S2- 6	41s1as2	1R4-	Q P
cGI NNpe	2S- 71	22aS	2- 2a	2- aS	2- Ss	2R2a	Q P
cGI NNpe	2Sa71	a6s-	a01	6S a	a - 2	- R06	Q P
cq	11 71	10 2S	1 S 0	10s62	10sa0	SR04	Q P
cqI . dpe	4071	1S- - 14	1S2- 1	1S- - - s	1S- S11	SRa-	Q P
5II . dpe	2- 71	4 0	4s2a4	4 6- 6	4 s2-	SR64	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Nb. i:DI e t Nb:&T :J	y h SM1S	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJas	TI il MdbI:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a172	a1s14	a14 2	a1a0s	a16as	SR44	Q P
YiipIr dpe	10271	1- - 4s	141S	1- 64s	1- 0S2	2R0s	Q P
YiipIr dpe	10272	60- a	6604	6 1-	6041	1RS-	Q P
YiipIr dpe	10671	1S401	1Sas6	ss01	1S- 46	- R2S	Q P
YiipIr dpe	10672	140- 1	14s4	1a4s	1aSas	2R6-	Q P
YiiIdpe	s71	1- 6S Sa	1- 166S	1- aa64S4	1- 0662sS	1R 2	Q P
YiiIdpe	s72	1402 44	14as0SS	14a00a4	146- 4- 2	SRa6	Q P
Zq O	6672	01- - a	0S 6	0Sa24	0Ss1a	SRa0	Q P
ZdOC. dpe	sS71	10612	2S1a1	1s164	1 s0a	6R0a	Q P
ZdOC. dpe	s171	42 4	4S42	42s2	42S6	- R	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SM11	Td iqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- 7S0712:14J- aJsa	TI il Mdd:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
dNe q dpe	2072	s 4s2a	s - - 2a	sa6s02	s 1406	SR0-	OI P
d. ioe C. E	12171	10a4	10s	2S10	1as-	0R3	OI P
dIPp. oD	0s72	1a6-	1a62	16 S	1aSs	sR32	OI P
BI Idpe	1- s71	- 022	- as4	4Ss410	4S12- S	SR 2	OI P
BI Idpe	1- 071	6 - 6 a	0S6401	0S0S0a	0S2416	1RSa	OI P
BpIENdpe	71	2aa1	2 S	2 66	2 46	1R 4	OI P
BqPe biG	2S 71	6a11- 16	0S642a2	60as6s4	6aa0Sa4	2R24	OI P
BqPe biG	2S 72	- 221aas	- 24 a06	- 1s1s- s	- 2S0066	1R3a	OI P
BIOe q p	a171	0s11	026S	01s2	0- Sa	2R32	OI P
9 I ne dpe	1Sa71	1aa	12s	1- a	1sS	22RSs	OI P
9 I ne dpe	1S671	4- s1	4S60	4110	410	- R32	OI P
9 I ne dpe	11171	10a0	161	1004	1020	sR41	OI P
9 I NOdpe	4- 71	2s1 - 4	2s1 26	2ssS04	2s2 0a	SR02	OI P
9 I NOdpe	4471	42a - 2s	420s61a	42012- 2	420a02s	SR22	OI P
9 I Ir C.	1271	6S1- 2a2	61- 04a4	6- - 211-	616S 6S	2R31	OI P
9 I Ir C.	1272	00s22	00as0	0626s	00214	1RS	OI P
9 GNOIq p	- s71	2- a2- 264	204sss 2	2 4- 6 61	26 Ss202	1SRsa	OI P
9 GNOIq p	- s72	2- S200	2- a402	2- a	2- 624	2R21	OI P
9 GIOe dpe	s272	2s66S	246s1	2s02-	2s- 4s	2R 0	OI P
9 Or I Nd	s 72	26a42	2s- S6	260ss	26- S1	- R2a	OI P
9 Ot t pI	6- 72	s4S1	s4Sa-	s- 10	s- 061	SR 4	OI P
TEPt IOPdpe	1s671	a44 -	a- 110	a44a4	a4S- 1	SR 4	OI P
TEPt IOPdpe	1s672	- 6222	- sa1a	- s0 1	- s 44	SR30	OI P
UIr dpe	16471	62- 1-	6- 1s	6S12S	61a64	2R34	OI P
UIr dpe	16472	2s240	2s414	24 s0	2s2S6	SR 2	OI P
HI nONqdpe	16S71	04Sa2	0sS- 0	04S- 1	04- a-	SR06	OI P
HI nONqdpe	16S72	- s a2	- s16S	- 4 - 2	- s- sa	1R36	OI P
h ONe dpe	16s71	0- 14	01424S	6- 4- 2a	00- S6	1Ra1	OI P
h ONe dpe	16s72	41ss0S6	42S1a2	- a4S12	411- a4	2R0	OI P
& ndpe	11s71	01 - 66a	0S1as4s	6 a2a1S	0S6sSSa	1R3S	OI P
& ndpe	11s72	6a6 2	0 - s4	- 46a	62sSs	2R1s	OI P
&C.	s472	1s6Sa -	1s2S- S0	1s4- 12s	1s41442	1R 2	OI P
&C.	s672	20061aS-	201a2s- S	20s4s12s	204 64a6	1RS6	OI P
&C.	s072	6sss4S	66Sa41	6s6- 6S	6s0sa1	SR4-	OI P
KIEt iC.	a- 71	- 40	- 16	- 46	- - 0	sR2s	OI P
LpI n	2S671	- - 1622	- - aSs0	- 2424a	- - 1- S	2RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T :J	y h SM11	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJsa	TI il MdNp:mI e p:J	S4- dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	204640	202S4-	2011aS	202624	SR36	OI P
LpI n	2Sa71	12 16S2	1- S2404	12a4- 0a	12 2a1a	SR0S	OI P
LqiGdpe	671	264- 11a	2s20saa	2s S616	2sa01S0	2R24	OI P
y I g. pPdpe	2472	s4261a	s41S4a	s- 01sS	s4S202	SRs2	OI P
y I . gI . pPp	ss72	6a1 a	606s0a	602a66	600140	SR3a	OI P
y CNEr np. be	471	16- 4-	16a44	160 4	1666S	1R3s	OI P
y CNEr np. be	s71	2010	20SS	20s	202s	1R1S	OI P
y CNEr np. be	671	s64-	sss1	s06S	s6s1	1Ras	OI P
y CNEr np. be	071	1610	1a42	2S60	1a42	12R22	OI P
y CNEr np. be	a71	441a	4- s	4- 26	4- 60	1RS6	OI P
mpOnEe dpe	1sS71	1ss- 1	1s1110	1s12 a	1s26S2	1R3a	OI P
mpOnEe dpe	1sS72	40Ss2	46001	461- 6	466s-	1RS1	OI P
mqOkpN	6S72	11s2s	11s0s	1S6S4	112- s	4Ra0	OI P
uGOPt GOIbP	- 172	- - a4	- 006	- 026	- 62a	sRaa	OI P
uOI PPdpe	- 72	- 26 a2	- 26s- -	- 2sa16	- 26444	SR1a	OI P
FGOndpe	1S- 71	0- - 11- 4	0SsSS41	01- SSS6	010S- 4	2RS2	OI P
FGOndpe	1S- 72	- 202aas	- 2s10 4	- 1206	- 2104s	2R44	OI P
DOI . ndpe	4s71	466410S	4s s Ss	4646121	46- s- a	SR06	OI P
DOI . ndpe	4s72	140021	1401sa	144s4-	146404	1R16	OI P
DpNp. dpe	a271	1- s	1 1	1S6	144	2 R	OI P
DpNp. dpe	0072	160	100	1- S	1sa	1sRs0	OI P
DpNp. dpe	0a72	146	120	110	1- S	11R-	OI P
DqNOC.	2a71	1s1 0S 4	1s2Sa11	1s26- - 22	1s222a4s	SR2-	OI P
DqNpI	1S071	1 0s	16a-	1a42	1a- -	0R6	OI P
DqNpI	1S 71	1a42	16Sa	10a4	104s	6R6	OI P
DOndpe	2- 72	4- sS0	42412	426- S	42asS	1Rs	OI P
DiIC. idpe	a671	1a1aSs	1aS1s2	10a- 2S	1aSS -	SR0	OI P
DiIC. idpe	aa71	166a- a1	162a- 1S	161- 0a-	16- 6a2s	1R0-	OI P
DbNbI	- 471	2a20S2	2as2a0	2a2 - S	2a- 64S	SRsS	OI P
cpIr dpe	1s 71	s sa	1SS24Sa1	60- Sa	s0a2	SR2a	OI P
cpIr dpe	1s 72	4S02 0S	4S a s6	- - 1416	4S- 4440	2R2-	OI P
cGI NNpe	2S- 71	1aa4	1 a4	212s	1 0	6RSa	OI P
cGI NNpe	2Ss71	sS4-	46s1	4a1a	4a- 0	4RS0	OI P
cq	11a71	aSS-	aSS-	06 4	0 SS	2R2s	OI P
cqI . dpe	4071	11a 1	11aa4S	12S1Sa	11 - 1-	SR3a	OI P
5II . dpe	2- a71	s1 4	s201S	s2- 41	s2- - 4	SR0-	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Nb. i:DI e t Nb:&T :J	y h SM11	TdbiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJsa	TI il MdbN:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	s172	416s0	4S1S6	41- - S	41S- 1	1R	OI P
Yiiplr dpe	10271	16s44	1621S	16420	16- 4	1RS-	OI P
Yiiplr dpe	10272	060s	0 a6	0a40	0a- 6	1R	OI P
Yiiplr dpe	10671	112- S	11 40	11 40	110Sa	- Rs4	OI P
Yiiplr dpe	10672	1s0a2	1saa2	140 0	1s4a0	- Ra0	OI P
Yiildpe	a 71	1- a s22a	1- s06- 21	1- s 04-	1- 6a 66-	1R S	OI P
Yiildpe	a 72	144104a	1444420	1- aS06a	1422- 14	2Rs-	OI P
Zq O	6672	4S- s1	41- 1-	4Sssa	4S041	1R24	OI P
ZdOC. dpe	S71	41262	4112a	41s02	41- 21	SRss	OI P
ZdOC. dpe	171	S2a	s s	2- 0	2a0	- RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:41:J6	&sTsUdP u sb r:	S44q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	- - N6N0	- - 2J0S	- 26hh-	- - 20JS	1M06	dDw
qCTb nCE	12171	22Sh	24- 4	2- - 4	2- 2J	4MNJ	dDw
qpwr Ccd	0J72	10NS	1N42	1N26	1N16	1M00	dDw
Bspcmb	1- J71	2SSN- 1	2S- J61	2S4JSS	2S2h64	SM14	dDw
Bspcmb	1- 071	- JJN- 6	- JN0S4	- 6S246	- JN262	SM62	dDw
Br pEPRmb	h71	1JJJ	1604	1JhJ	16SN	- M06	dDw
Bcwb mTG	2Sh71	600N016	6000- 2N	6N6hh0S	6NSN601	SM0N	dDw
Bcwb mTG	2Sh72	- - SJNJ6	- - 1h002	- 0- - 2- N	- 4J2hJJ	0MS-	dDw
Bpmb cCr	N171	62h-	64h-	61J2	6- 1-	2M02	dDw
5 sob cmb	1SN71	121	N-	NN	h0	21MJ	dDw
5 sob cmb	1S671	- h06	- 0h2	- 0h2	- NJ-	2M0J	dDw
5 sob cmb	11171	1101	1146	11J1	11J6	1M16	dDw
5 sPdcmb	4- 71	N- 140	N- 64-	N4- N0	N- 02J	SM0J	dDw
5 sPdcmb	4471	142004N	14622SJ	14- 66S1	14421NJ	1M24	dDw
5 spenC	1271	- 24hS0J	- - 04010	- 414- S6	- - 46S- -	2MN	dDw
5 spenC	1272	4SJ6J	42JS4	411h2	4142S	2Mh	dDw
5 GPmpcCr	- J71	24S2406-	20h0- J4J	2hh26S2h	20- SN112	11MS1	dDw
5 GPmpcCr	- J72	2- 4h- 4	2- h116	24- J6J	2- h2SJ	1MMS	dDw
5 Gpmb cmb	J272	2h2J0	2N66h	2N241	2N022	1M0N	dDw
5 nesFT	Jh72	1hJJ0	1h24-	1NNJ6	1h21h	1MM-	dDw
5 nDDr p	6- 72	- - 2Jh	- - 0N4	- - N14	- - 61h	SM1-	dDw
&EwDpnwcmb	1J671	J644J	JNS- J	Jh1S6	J0N62	2M1	dDw
&EwDpnwcmb	1J672	2416h	241hJ	2- 04N	24S- 0	1MS4	dDw
Fpecmb	16471	422S1	4- N6J	44SN2	4- - N-	2M0	dDw
Fpecmb	16472	10- 21	10- SJ	10SS4	1021S	1MS4	dDw
HsonRCcmb	16S71	4Nh24	J14N-	J2- 4J	JSh1N	- M1h	dDw
HsonRCcmb	16S72	244hh	242Sh	24SNh	24266	SMM0	dDw
y nPb cmb	16J71	h46N- JJ	hNJJN14	hN4J10N	h02- 11J	2M20	dDw
y nPb cmb	16J72	422611h	42J4S- S	4Jh60- 4	4- JNh61	4M0-	dDw
tCocmb	11J71	0S2- h0-	01J2N6-	0- - 0hNJ	01016S0	2M2S	dDw
tCocmb	11J72	hhNSh6	hN2J44	1SN2NN-	1S21104	JM2h	dDw
tpnC	J472	1S204hh	1SS0- S0	hh- 412	1SSh4S6	1M0S	dDw
tpnC	J672	1h2- 22S1	1h26- 6- 2	1h- 2N1h0	1h204600	SM2J	dDw
tpnC	J072	46040-	46SSJ4	4JJS4J	46SNJN	1M16	dDw
KpEDTnC	N- 71	2h0	- 16	- S0	- S0	- MS6	dDw
Lr so	2S671	2J1S62	2JNN42	2J0hhN	2JJh60	1M00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-44671S	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2-7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	2111hS	212SSN	21J041	212hNS	1M14	dDw
Lr so	2SN71	hN6NNh	1SSh04h	1S110h6	1SS2N11	1MIN	dDw
LdTGmb	671	24hJN1N	2J162Nh	2J10-11	2JShNS6	SM4N	dDw
9 sgOr wcmb	2472	2-0110	2-4N66	2-SNJS	2-420N	1MJ	dDw
9 sOgsOr wr	JJ72	-h22-S	-N6hN-	-NS064	-N66Jh	1M4N	dDw
9 nPEeor Cmb	h471	NN-6	h412	h4hJ	h24N	-MIN	dDw
9 nPEeor Cmb	hJ71	-4N4	-4-4	-N10	-J0N	JMI-	dDw
9 nPEeor Cmb	h671	4NN4	J206	J1-4	JShN	-MIh	dDw
9 nPEeor Cmb	h071	2-Jh	2-Sh	21Jh	220J	4MIN	dDw
9 nPEeor Cmb	hN71	664-	Jh-J	6J6N	6-N2	6M1S	dDw
u r noEb cmb	1JS71	1S41hJ	1S0-Jh	1Sh0S6	1S0SN6	2MIN	dDw
u r noEb cmb	1JS72	-2h44	-2N24	-2660	-2N11	SM12	dDw
u cdkr P	6S72	hJ00	h4NS	h1-6	h-hN	2M46	dDw
8 GhwDGhpmw	-172	16SS	1J60	14h2	1JJ-	-M0	dDw
8 nTswwcmb	-h72	1J62N2	1J-2J0	14N-N-	1J2641	2M61	dDw
. Ghocmb	1S-71	02S10S4	014N-01	02NS-6N	021S14N	SM12	dDw
. Ghocmb	1S-72	-2h2N0-	-20JJh0	-JJ-h62	--04144	4M62	dDw
l dsCocmb	4J71	4JNhN1-	4J0NNhJ	4JNJhh6	4JN4hS1	SM12	dDw
l dsCocmb	4J72	1J1h-S	14h-6J	164h02	1JJ422	JMIN	dDw
l r P Cmb	N271	12J	JJ	00	N6	41M04	dDw
l r P Cmb	0072	1-S	11-	140	1-S	12MI2	dDw
l r P Cmb	0N72	N2	N0	0S	NS	1SM10	dDw
l dPdnC	2N71	0-264S4	0-26424	0-0NJ01	0-4-0hh	SM41	dDw
l dPr p	1S071	140J	1-60	1610	14N6	NM44	dDw
l dPr p	1Sh71	1-JN	140J	1J2J	14J-	JMIh	dDw
l nocmb	2-72	4S1N1	4S0h1	4S604	4SJ4h	SMIS	dDw
l TpnCTcmb	N671	0-SJN	06J6S	046JN	040Jh	2M4	dDw
l TpnCTcmb	NN71	6462-0	66S422	6J24NS	6J-S46	1M8h	dDw
l mPmp	-471	2J6S41	2JN22S	261J1N	2JNJh-	1M80	dDw
Ar pecmb	1Jh71	h0J104h	hhNJNS-	h016JJ4	hN1NS-6	1M4h	dDw
Ar pecmb	1Jh72	4202S2J	4S4NNN2	44hJ0J-	420222S	JM4-	dDw
AGsPRmb	2S-71	1-SS	1460	142J	1-h0	6M21	dDw
AGsPRmb	2SJ71	--26	--60	-J26	-4S6	-M1S	dDw
AdC	11N71	1262-	120S6	126hN	12606	SM6	dDw
AdSCmb	4071	N22-6	N44hS	N641S	N4-0h	2M4N	dDw
RpsCmb	2-N71	---hJ	-460-	--JS-	--NJ0	2M8h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:41:J6	&sTsUdP u sb r:	S44q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
VsCsoomb	J172	- 1NhJ	- 21Jh	- 14hJ	- 1NJS	1N8J	dDw
YTTr pe omb	10271	11hJ6	11hJ6	12- J6	12SNh	1M11	dDw
YTTr pe omb	10272	J01N	JJ1N	JJ2h	JJNN	2N81	dDw
YTTr pe omb	10671	N0hJ	h10N	N062	Nh12	2M8S	dDw
YTTr pe omb	10672	1- N- S	146- S	1J24N	14J6h	4MMN	dDw
YTTpomb	Nh71	1- 641040	1- JN22JN	1- - N4JN1	1- J- 61h6	SM1h	dDw
YTTpomb	Nh72	14N11S-	1- J621-	1JhN1NN	140NJS1	NM1N	dDw
ZdCd	6672	1h- 60	1hh14	1h4hS	1hJhS	1M40	dDw
ZqpdnComb	hS71	1hS64	1hJ02	2SS6J	1hJ60	2M6	dDw
ZqpdnComb	h171	41S1	4442	4S42	41hJ	JM1J	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP u sb r:	S4Jq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	64J21N	6- J- JJ	6- J- 62	6- N64J	SMMh	dDw
qCTb nCE	12171	2JN4	2h- 4	26- 4	2010	6M10	dDw
qpwr Ccd	0J72	100S	10N-	1064	100-	SMJ	dDw
Bspcmb	1- J71	- 020S2	- 0- 4S1	- 601h1	- 01ShN	SM12	dDw
Bspcmb	1- 071	6J26Sh	66266S	6J02J1	6J0JS0	SM00	dDw
Br pEPmb	h71	- 122	- 166	- 10S	- 1J-	SMM4	dDw
Bcwb mTG	2Sh71	60- SNhS	01- 1h26	60021NN	6N0N- - J	- M21	dDw
Bcwb mTG	2Sh72	- 1hNSJ4	- 2h1h0h	- 2J4- - S	- 24N121	1M46	dDw
Bpmb cCr	N171	06S2	0h00	N- J-	0h00	4M0S	dDw
5 sob cmb	1SN71	1N-	1h2	2- -	2S-	1- M21	dDw
5 sob cmb	1S671	44- 4	4426	4260	4- 06	2M1J	dDw
5 sob cmb	11171	221h	2- JS	21Nh	22J-	- MM1	dDw
5 sPlcmb	4- 71	1J- h- S	1J6h0S	1J6J12	1JJNS4	1M3J	dDw
5 sPlcmb	4471	262J60N	260- h64	2021- 4N	260- 66-	1M0h	dDw
5 spenC	1271	J1NJ22N	J- 6S1S0	J4061- J	J- 4S4hS	2M04	dDw
5 spenC	1272	6601h	6Jh4h	66J1S	66- h2	SM0S	dDw
5 GPmpcCr	- J71	220- 0- 4J	266NhNN0	2N0h1624	26S02hJ2	11M0h	dDw
5 GPmpcCr	- J72	21hNS0	22Jh60	22h1N-	224hN6	2M12	dDw
5 Gpmb cmb	J272	2h410	- S24h	2Nh- -	2hJ- -	2M2J	dDw
5 nesPT	Jh72	- JS46	- 44J2	- 420N	- 4Jh2	1M10	dDw
5 nDDr p	6- 72	642hJ	640hN	64060	6462S	SM44	dDw
&EwDpnwcmb	1J671	1S4h11	1SJ06N	1S- 404	1S401N	1M11	dDw
&EwDpnwcmb	1J672	4- 601	426hJ	4204J	4- S- 0	1M2N	dDw
Fpecmb	16471	N- JJ4	N6112	N0S- 6	NJJ60	2M11	dDw
Fpecmb	16472	- J06N	- 4N66	- JS1-	- J216	1M10	dDw
HsonPCcmb	16S71	Nh204	hSh- J	N0- h6	Nh2S2	1MMh	dDw
HsonPCcmb	16S72	42J24	42SN6	41N- h	421JS	SMM2	dDw
y nPb cmb	16J71	h6NNS- 1	hhhNS2S	h64J4- 4	h000162	1M10	dDw
y nPb cmb	16J72	4SJJhS-	426hN42	42JS6JS	41h21- 2	2MM2	dDw
tCocmb	11J71	0Sh4161	01NS6JN	6hJ11N6	0S0J- - J	1M64	dDw
tCocmb	11J72	h6SS60	hN46h1	1SS426J	hN- SS0	2M2J	dDw
tpnC	J472	24- 1N00	24JN626	2421J- 6	24- 0- 40	SM0h	dDw
tpnC	J672	44J4h162	4416N2J2	4- 0JSNh4	441J61S-	SM1S	dDw
tpnC	J072	1S62hS4	1SJSJN2	1SJ- 6J2	1SJJ01-	SM61	dDw
KpEDTnC	N- 71	- 62	- J0	- J6	- Jh	SM12	dDw
Lr so	2S671	- 4040N	- 6SJ- -	- JN- 2-	- JJ44J	1M10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	2N611S	2h00Sh	2h4h0S	2h2h- S	2N80	dDw
Lr so	2SN71	1- 64N0h	1414JNN	1- h12SN	1- hS22J	1N0h	dDw
LdTGmb	671	2J- h- J0	2JNN- - 1	2JN- J6-	2J0S410	1N8J	dDw
9 sgOr wcmb	2472	J- NSJ2	J46246	J464J0	J4- JNJ	SNMN	dDw
9 sOgsOr wr	JJ72	0N22NJ	0N66- 2	000- 2h	0N2SN2	SN0S	dDw
9 nPEeor Omb	h471	1010N	10NhJ	101h4	10422	2MJ	dDw
9 nPEeor Omb	hJ71	6420	0S00	6JJ2	66NJ	JM16	dDw
9 nPEeor Omb	h671	h64J	hh01	h2hJ	h6- 0	- M1	dDw
9 nPEeor Omb	h071	- NN4	4626	4J4-	4- J1	hM4	dDw
9 nPEeor Omb	hN71	1S40h	11- - N	112- N	11S1h	4N26	dDw
u r noEb cmb	1JS71	104NS4	1N10- 0	10040h	10NSS0	1M16	dDw
u r noEb cmb	1JS72	J4N2J	J2JN6	JJS06	J4162	2M-	dDw
u cdkr P	6S72	26hNh	262J1	26S41	26420	1MMN	dDw
8 GhwDGhpmw	- 172	- N10	- J42	- N- 4	- 0- 1	4Mh	dDw
8 nTswwcmb	- h72	46N0- 2	46S62J	461h16	46- 0J0	SM14	dDw
. Ghocmb	1S- 71	01- 1hS6	0204- 26	0S0614-	016S0h2	1M4-	dDw
. Ghocmb	1S- 72	- 144JNh	- 20- - J0	- - 46JS1	- 2J4N16	- M14	dDw
I dsCocmb	4J71	46112N0	40- - 026	4J6N2N4	46- 0066	1MMJ	dDw
I dsCocmb	4J72	144JhS	1J121-	1J1h0J	14h2Jh	2M02	dDw
I r P Ccmb	N271	104	2SS	210	1h0	11M10	dDw
I r P Ccmb	0072	1h-	1NS	210	1h0	hM44	dDw
I r P Ccmb	0N72	160	1- J	1- 1	144	1- M60	dDw
I dPdnC	2N71	114N40- 0	1101hN40	11N12400	11602- J4	1M4J	dDw
I dPr p	1S071	16JN	1N60	2S10	1N40	hM04	dDw
I dPr p	1Sh71	16JN	1h42	1hSh	1N- 6	NM4-	dDw
I nocmb	2- 72	426J4	4- 24N	4- 066	4- 22-	1N2h	dDw
I TpnCTcmb	N671	h- h2-	h- S10	h- h04	h- 6- N	SM10	dDw
I TpnCTcmb	NN71	NSJ6- 2	NSh44S	N16h- -	N1S66N	SM01	dDw
I mPmp	- 471	201N0J	20SN21	201- 6S	201- J2	SM1h	dDw
Ar pecmb	1Jh71	hNhS644	1SSh- 111	hNhSNS0	hhJN1N0	1M10	dDw
Ar pecmb	1Jh72	- h102JJ	4SJJ- 0N	414JJhh	4S- h411	2MMJ	dDw
AGsPPcmb	2S- 71	2042	262J	- 1JS	2N- h	hM01	dDw
AGsPPcmb	2SJ71	6N1S	6N6h	62h-	66J0	4M06	dDw
AdC	11N71	1S66-	1S021	11SSJ	1S0h6	1M6h	dDw
AdSCcmb	4071	26JNN0	20- 4N4	264NJ4	26NS0J	1M06	dDw
RpsCcmb	2- N71	J0JN1	6SNSJ	JN04J	JhS44	2M00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4N1J0	4N100	40J0h	40h01	SM01	dDw
YTTr peomb	10271	2N24S	200h6	2040h	20N- N	1M10	dDw
YTTr peomb	10272	1411-	1- N- J	1- 246	1- 0- 1	- M4-	dDw
YTTr peomb	10671	1NJ64	1NJNh	1NNSJ	1N6J-	SM01	dDw
YTTr peomb	10672	1h10J	1h1hN	1h24N	1h2S0	SM1h	dDw
YTTpomb	Nh71	1- hJN4N4	14J412J1	14Sh2642	141h04Jh	2M1J	dDw
YTTpomb	Nh72	144N42-	1JS0S- -	1J2J62S	14h- 6h2	2M0S	dDw
ZdCd	6672	JNN2J	JNNhJ	JNJS0	JN042	SMJ	dDw
ZqpdnComb	hS71	- JhNS	- 0N44	- 0h11	- 024J	2M14	dDw
ZqpdnComb	h171	N21h	0Nh4	N- 44	N1J-	2MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	2072	N1046N	N14JS6	NS6h4S	N12h01	SM00	dDw
qCTb nCE	12171	10h2	1Nh2	2SSh	1Nh0	JM02	dDw
qpwr Ccd	0J72	1hN-	1NhN	1NN6	1h2-	2M0J	dDw
Bspcmb	1- J71	4600JJ	466- 62	46S6NS	464h- 2	SMM1	dDw
Bspcmb	1- 071	N1S640	N26J1-	N1SJhJ	N1Jh1N	1M12	dDw
Br pEPmb	h71	4S1J	4SS-	4SS4	4SS0	SM10	dDw
Bcwb mTG	2Sh71	606- 10N	6NS0J24	6NJ- - J0	6NSNS2S	SM06	dDw
Bcwb mTG	2Sh72	- 206- 2N	- 2- N246	- 2- 2066	- 24h11-	SM0-	dDw
Bpmb cOr	N171	NN0N	h20N	h- 2S	h1Jh	2M06	dDw
5 sob cmb	1SN71	1J4	101	2SN	10N	1JM01	dDw
5 sob cmb	1S671	4410	464-	4260	444-	4M2J	dDw
5 sob cmb	11171	2S01	2S61	2S4N	2S6S	SMMN	dDw
5 sPlcmb	4- 71	1h- 0hh	1h200S	1N0NJ-	1h1404	1M06	dDw
5 sPlcmb	4471	- - 1- 461	- - 226JJ	- 2460J0	- 2h42h1	1M26	dDw
5 spenC	1271	- h06- 61	4S- 12J1	4S6- 4J4	4S2- 6Nh	1MSh	dDw
5 spenC	1272	4h- 06	4h4SS	JS- - 0	4h0S4	1M1S	dDw
5 GPmpcOr	- J71	22hJ010-	2664S202	2N41J120	26SS41h1	1SM01	dDw
5 GPmpcOr	- J72	21hhS1	222h6-	226SS1	222hJJ	1M10	dDw
5 Gpmb cmb	J272	4- 04S	4- - Jh	4- 2NJ	4- 461	SM16	dDw
5 nesPT	Jh72	4- 0hS	42h- J	4- 64-	4- 4J6	1MSJ	dDw
5 nDDr p	6- 72	6N142	6040h	6N6hJ	6N1S6	SMMh	dDw
&EwDpnwcmb	1J671	1- h0NJ	1- h20S	14S10-	1- h04-	SM12	dDw
&EwDpnwcmb	1J672	J00- 0	JN4J4	J0242	J0N11	1MSJ	dDw
Fpecmb	16471	116J6N	11h2- 4	114h46	116h16	1MMJ	dDw
Fpecmb	16472	404- N	404S1	461- 6	46hh2	1MMN	dDw
HsonPCcmb	16S71	122h1-	11NhJ4	11h441	12S4- 6	1M0h	dDw
HsonPCcmb	16S72	JN1- -	J60N0	J6N00	J0266	1M11	dDw
y nPb cmb	16J71	1SSJhN26	1SS06S1J	hN210SS	hhNJN40	1M4-	dDw
y nPb cmb	16J72	422116h	42h- N0-	4241- 00	42J214S	SMMN	dDw
tCocmb	11J71	01206J6	02S21JJ	0- - N6S4	0222NSJ	1M4N	dDw
tCocmb	11J72	h0J624	h06J1S	h6N01h	h0- 61N	SM44	dDw
tpnC	J472	- 1- JN2N	- 141J11	- 11S4SN	- 12h24h	SM-	dDw
tpnC	J672	J01- 2S- h	JJ6- 2102	JJhh1S6J	J62J10Jh	1Mh	dDw
tpnC	J072	140h6JJ	1404042	14J240-	146NhJ0	SMMh	dDw
KpEDTnC	N- 71	420	466	421	4- N	JM6	dDw
Lr so	2S671	- 21- 61	- 24- 0S	- 2- JJS	- 2- Sh4	SM4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU14	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:40:JJ	&sTsUdP usb r:	S46q. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20S2hN	20- J- J	26N66S	20SN- 1	SM12	dDw
Lr so	2SN71	12N0N44	12N6J2h	12N222S	12NJJ- 1	SM4-	dDw
LdTGmb	671	2J- 2N- 6	2J6h210	2J6N0hS	2JJ6h4N	SMM2	dDw
9 sgOr wcmb	2472	6J042J	64- JNh	64- S0-	64NS2h	1M46	dDw
9 sOgsOr wr	JJ72	1SJ1S12	1S- 6141	1S4NhN2	1S4J- 0N	SM00	dDw
9 nPEeor Cmb	h471	1- N4h	14141	14S16	14SS2	1NSJ	dDw
9 nPEeor Cmb	hJ71	N211	00h4	N1S-	NS- 6	2M0h	dDw
9 nPEeor Cmb	h671	1S1S4	hN2h	1S10h	1SS- 0	1MM4	dDw
9 nPEeor Cmb	h071	401N	JS- 4	JSSh	4h2S	- MN	dDw
9 nPEeor Cmb	hN71	1- S1J	1- NS0	12hN2	1- 26N	- M2	dDw
u r noEb cmb	1JS71	2- h126	2- h- N1	2- J- - 4	2- 0h40	SM1J	dDw
u r noEb cmb	1JS72	02666	046J0	02J22	0- 2N1	1M0-	dDw
u cdkr P	6S72	2- N6S	22h- 2	220N2	2- 1h1	2M2	dDw
8 GhwDGhpmw	- 172	- J10	- 660	- 2JS	- 40N	6NS0	dDw
8 nTswwcmb	- h72	JS2S4h	4Nh626	4N- N- -	4h1N- 6	1MNh	dDw
. Ghocmb	1S- 71	0S6J102	014Sh6S	0SN0S6-	0Sh00- 2	SMJ	dDw
. Ghocmb	1S- 72	- 2N2JN1	- 260- 01	- 2N61N0	- 20N01-	SMS	dDw
I dsCocmb	4J71	46h4JJJ	406NJNN	464J644	40S2h2h	1M2	dDw
I dsCocmb	4J72	1J16SN	14hhN2	14hhSN	1JS4hh	SM04	dDw
I r PCcmb	N271	22h	1N1	160	1h2	16M0S	dDw
I r PCcmb	0072	26-	200	210	2J2	12M4h	dDw
I r PCcmb	0N72	2S4	1N0	2SN	2SS	JMN	dDw
I dPdnC	2N71	1J- 6242-	1J6- 0JJ0	1JS1- S1-	1J- - 0664	2NS4	dDw
I dPr p	1S071	1NJS	10JS	1Jh2	10- 1	0M-	dDw
I dPr p	1Sh71	2S2J	1JSS	1h10	1N14	1JM2N	dDw
I nocmb	2- 72	40- 20	46hJh	46- 66	46NN4	1NS-	dDw
I TpnCTcmb	N671	116- 2-	110224	11- 40N	11J60J	1M0h	dDw
I TpnCTcmb	NN71	hh404h	1SS6226	1SSS- N1	1SSS4J2	SM0	dDw
I mPmp	- 471	26S2- 2	2J66h6	2J- 01J	2J6NN1	1M20	dDw
Ar pecmb	1Jh71	1SS6h0J0	1S- h2ShN	1SS0J6JS	1S10h16N	1MM1	dDw
Ar pecmb	1Jh72	42J2h04	4140- N0	41JS161	41N- JS0	1M44	dDw
AGsPcmb	2S- 71	- - Sh	- 626	- - S1	- 412	JM4-	dDw
AGsPcmb	2SJ71	04- 6	04N6	N16h	06h0	JM-	dDw
AdC	11N71	16hN6	164J2	102hJ	16h11	2M2	dDw
AdsCcmb	4071	2- 0S6N	24S- - 2	2- 6N16	2- NS02	SMM2	dDw
RpsCcmb	2- N71	66606	0S120	01J61	6h4JJ	- M02	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Rr CTI sb DP t&:	9 y SU14	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	JhhNJ	JNNJS	JNJhh	Jh14J	1M2J	dDw
YTTr pe omb	10271	- 00h6	- h260	- NJ6J	- NJ4-	1M11	dDw
YTTr pe omb	10272	1N01h	1h4- 0	1hSJN	1hS01	1MMN	dDw
YTTr pe omb	10671	24h66	26S- J	2J6N4	2JJ62	2M1-	dDw
YTTr pe omb	10672	220Jh	2- S- 0	22h4-	22h1-	SM62	dDw
YTTpomb	Nh71	14- 2J062	14J0h- h2	1JSSJJhh	146- 6h1N	2MJ	dDw
YTTpomb	Nh72	1J4J622	1JJ4662	1JSNh4N	1J- 6411	1MN	dDw
ZdCd	6672	JhJhN	JhJJN	JhJhN	JhJNJ	SM34	dDw
ZqpdnComb	hS71	26- SS	26Jh-	2661N	26JS4	SM60	dDw
ZqpdnComb	h171	6S1N	JNh-	JNS1	JhS4	1MM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-44671-	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTi i Adb r qdOmpr o:	2S2-7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	Nh-JNh	NNSh41	N0-6NJ	NN20-N	1M14	dDw
qCTb nCE	12171	126hN	1-2J0	12J64	12N4S	2NM6	dDw
qpwr Ccd	0J72	0SSJ	0SJ2	6NNN	6hN2	1M21	dDw
Bspcmb	1-J71	0N1h6-	00J6-1	001212	00626N	SM0S	dDw
Bspcmb	1-071	1-0-S0J	1-040-1	1-0-62h	1-0-N11	SM36	dDw
Br pEPmb	h71	4J24	4-hS	4666	4J20	-M3J	dDw
Bcwb mTG	2Sh71	6h-6h6h	601JJ4N	6N041J2	6N4222-	1M00	dDw
Bcwb mTG	2Sh72	-26N0Jh	-264462	-26-1N1	-26J460	SM3h	dDw
Bpmb cCr	N171	0400	N-44	061h	0N14	JM1J	dDw
5sob cmb	1SN71	42J	4SN	410	410	2M3S	dDw
5sob cmb	1S671	4h-4	40-4	4206	464N	0M26	dDw
5sob cmb	11171	4N26	J2SJ	4hJ-	4hhJ	-MM6	dDw
5sPlcmb	4-71	0S-0NJ	0SN4hS	012N22	0SN-66	SM04	dDw
5sPlcmb	4471	11h1-JNh	11h00h1S	12SJ0440	11hN2hN2	SM0S	dDw
5spenC	1271	6126hhh	62002S0	6-10-SN	624SJSJ	1M01	dDw
5spenC	1272	06NS1	0JNNN	00-2S	0660S	SM1J	dDw
5GPmpcCr	-J71	214NN010	2JS1J41J	201SN4-1	24J-0J21	11M10	dDw
5GPmpcCr	-J72	2Sh0SJ	21404-	21JN2J	21-424	1M-	dDw
5Gpmb cmb	J272	J4014	JJ10h	J-014	J4J-6	1M10	dDw
5nesPT	Jh72	-JN42	-4Nh6	-J20S	-J--6	1MJ	dDw
5nDDr p	6-72	21N1-0	214640	21J24-	216SSh	SMM6	dDw
&EwDpnwcmb	1J671	6421-	6J4J-	66N4-	6JJS-	2M31	dDw
&EwDpnwcmb	1J672	20-2N	260-4	26N-S	26h64	1M1N	dDw
Fpecmb	16471	4NJ6J	JS201	4Nh04	4h20S	1MM1	dDw
Fpecmb	16472	2SS-2	1hh2N	1h00N	1hh1-	SM04	dDw
HsonPCcmb	16S71	J611h	J6--0	J04SS	J661N	1M21	dDw
HsonPCcmb	16S72	20SS0	261-2	26J2-	26JJ4	1M0J	dDw
y nPb cmb	16J71	h4N4N6N	hNJSNh-	hNJ6hJ-	h0-ShSJ	2M1h	dDw
y nPb cmb	16J72	420hS00	4160-S6	424J4S4	42-SJh6	1M16	dDw
tCocmb	11J71	6h4-4J6	02Sh2-N	02hJ621	014h4-N	2M10	dDw
tCocmb	11J72	hhS1N2	hN6464	hN41S-	hN6h16	SM1	dDw
tpnC	J472	2J044Nh	2J-42-S	2J2h14S	2J4JhJ-	SM1N	dDw
tpnC	J672	46hS60hJ	4J112h22	40102hh1	46-h0J0S	2M41	dDw
tpnC	J072	11S6SJ1	11S-22S	1ShN6Jh	11S264-	SM4	dDw
KpEDTnC	N-71	-2J	-1h	-11	-1N	2M16	dDw
Lr so	2S671	--JN-10	-261S66	-2-N0J1	-2N6S4J	1M1-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20N2Sh0	20S6J11	20S6NSJ	20- 1NS4	1Mlh	dDw
Lr so	2SN71	12NSN601	12JhS- 11	12J64- 2h	126J44- 0	1N36	dDw
LdTGmb	671	24J1- 61	2J4S46-	2J- 1160	2JS066-	1M1J	dDw
9 sgOr wcmb	2472	h4hS1N	h- 4hS0	h24S64	h- Jhh6	1M4	dDw
9 sOgsOr wr	JJ72	hN6- 0S	h0N6S4	h66h1-	h002h6	1N3S	dDw
9 nPEeor Omb	h471	21SJS	2214-	21642	21612	2Ml-	dDw
9 nPEeor Omb	hJ71	1SNh6	1S0S4	111- S	1Sh1S	1M1J	dDw
9 nPEeor Omb	h671	14116	1- h41	14SN2	14S46	SM06	dDw
9 nPEeor Omb	h071	66NJ	6420	6- h-	6JS2	2M46	dDw
9 nPEeor Omb	hN71	102hJ	1060S	10h0h	1064N	1M14	dDw
u r noEb omb	1JS71	11- 42h	1124N0	11- 114	11- S1S	SM42	dDw
u r noEb omb	1JS72	- 464N	- JJh0	- 464J	- 4h6-	1Ml0	dDw
u dkr P	6S72	2SNS2	2SSS1	1hhh4	2S266	2M2h	dDw
8 GhwDGhpmw	- 172	6- 6S	641S	64S2	6- hS	SM42	dDw
8 nTswwcmb	- h72	44J4S-	4- 06SS	444- 6N	4424J0	SM16	dDw
. Ghocmb	1S- 71	01S60h0	02S4J0h	0Sh6N0S	01- 6SN2	SMM-	dDw
. Ghocmb	1S- 72	- 2SNN42	- - SJJ1S	- 2J4- 4h	- 2J62- -	1M4h	dDw
I dsCocmb	4J71	4J0J0h-	4JJ4NJ-	40S- N46	46114h0	1M0J	dDw
I dsCocmb	4J72	1404hh	1J24- S	140h- S	14h2N6	1MM-	dDw
I r P Ccmb	N271	1h6	1N0	2- S	2SJ	1SM10	dDw
I r P Ccmb	0072	1- -	120	1- S	1- S	2Ml0	dDw
I r P Ccmb	0N72	1Sh	1SN	11-	11S	2M41	dDw
I dRdnC	2N71	14S66N0N	1- hSJ0N4	14Sh1- J4	14S21- - h	SM02	dDw
I dPr p	1S071	N- 11	N411	N- S-	N- 42	SM02	dDw
I dPr p	1Sh71	0000	N4J-	0N6h	NS- -	4Ml6	dDw
I nocmb	2- 72	1- 0002	1- h142	1- N- 6S	1- N42J	SMS	dDw
I TpnCTcmb	N671	J46J2-	JJ2- J4	J44- 2J	J400- 4	SM06	dDw
I TpnCTcmb	NN71	400JN- 6	4h- 1hN-	4h2112S	4N06- 1-	1M0h	dDw
I mPmp	- 471	- 11hhS	- 2S4- J	- 21h26	- 1N110	1M6N	dDw
Ar pecmb	1Jh71	hh2060S	1S12- NN2	1S1S- 646	1SSJ10- -	1N30	dDw
Ar pecmb	1Jh72	42S- hS-	4S6hN- 1	42Jh6J-	41000h6	2M4	dDw
AGsPbmb	2S- 71	2J- 4	2- 2J	22SS	2- J-	0M16	dDw
AGsPbmb	2SJ71	J406	J2J1	J1Jh	J2h6	- N3N	dDw
AdC	11N71	Jh0hN	6ShS-	620S2	611- J	2M4S	dDw
AdSCcmb	4071	- 46J0J	- JS0Nh	- JS21N	- 4h1h4	SM0J	dDw
RpsCcmb	2- N71	J0SS-	Jh1NS	JNhh0	JN- h-	2N30	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DPP t&:	3 - 44671-	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DPP t&:	9 y SU20	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:JS:J4	&sTsUdP u sb r :	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0- J- 1	020J0	01- JS	02J46	1Ml2	dDw
YTTr pe omb	10271	14NJS	1J6NJ	1J226	1J2J4	2N04	dDw
YTTr pe omb	10272	0J1h	0- 04	0- h0	04- S	1N8J	dDw
YTTr pe omb	10671	111NN	11SSJ	110- 1	11- SN	- M4	dDw
YTTr pe omb	10672	1J106	1JJhN	1J6N0	1J4N0	1N00	dDw
YTTpomb	Nh71	1- 6hh46S	14S04- 0S	1- N- S- 0N	1- N6NS6h	1M0	dDw
YTTpomb	Nh72	142hh4N	1441- 0J	14J4N41	1442SJ4	SNM6	dDw
ZdCd	6672	2004N1	204hhS	26h2S-	20- Nh2	1MJ	dDw
ZqpdnComb	hS71	41SJ-	4S10J	412S4	4SN11	1M6	dDw
ZqpdnComb	h171	h412	h6NN	N661	h2J4	JN04	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&biqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	2072	uJ2u44	u444aS	u46J11	u40a4a	SR31	Ol l
d. iqe C. E	12171	J1J1	JS26	461u	4a- 2	JR36	Ol l
dll p. qO	0J72	02JS	0S40	010S	01J6	1R42	Ol l
Bwldpe	1- J71	6S406a	61462S	6S1J42	6S6a00	1R12	Ol l
Bwldpe	1- 071	1S6a4- 1	1S6u6- 0	1S4aJ01	1S62J46	1RS6	Ol l
BplE&dpe	a71	- J4a	- 6- 1	- 60S	- 610	1R01	Ol l
Bdqe biG	2Sa71	66uaJa2	6aJ41u0	600uSJ1	6uS0200	1Rau	Ol l
Bdqe biG	2Sa72	- - - 6a41	- 2SaJuJ	- 200402	- 204666	1RaJ	Ol l
BlOe q p	u171	a24J	a2- 0	a22S	a2- 4	SR14	Ol l
9 wne dpe	1Su71	2J4	2- -	1a2	226	14RS6	Ol l
9 wne dpe	1S671	41a2	4406	- a60	4212	6RSJ	Ol l
9 wne dpe	11171	- S10	2aJJ	2a- u	2a0S	1R a	Ol l
9 w&Odpe	4- 71	4Ja2- 0	46J4- u	4Jaa- a	461J- u	SR04	Ol l
9 w&Odpe	4471	0u412au	0u46121	0664Ju2	00u4SSS	1R -	Ol l
9 wlr C.	1271	- 61a266	- 06u12-	- 02146J	- 0S2aJ1	2RS6	Ol l
9 wlr C.	1272	44406	44044	46- aa	4J2S6	2R S	Ol l
9 G&Clq p	- J71	214- J6aS	2J22- - 66	20Sa60Su	24JuJ2JJ	11R0-	Ol l
9 G&Clq p	- J72	21S0a4	21Ja1S	22S0- 1	21Ju12	2R S	Ol l
9 GlOe dpe	J272	462a1	46144	46J62	46- - -	SR46	Ol l
9 Or w8	Ja72	44a2u	44ua1	4JSu4	44a6u	SR2-	Ol l
9 Ot t pl	6- 72	166061	164121	16J04a	16JJ44	SRuS	Ol l
TEl t lOl dpe	1J671	u0J11	u014-	u42S0	u62u0	2R1S	Ol l
TEl t lOl dpe	1J672	- 6J- 0	- JaSJ	- 644S	- 62a4	SRa4	Ol l
Ulr dpe	16471	66Ja2	66J06	60421	66u6-	SR02	Ol l
Ulr dpe	16472	26a04	26J60	20S4u	26u6-	SRa6	Ol l
HwnO&q dpe	16S71	064J-	0u- 14	0u1- S	006- 2	1R 2	Ol l
HwnO&q dpe	16S72	- Ju2J	- 626-	- 60J1	- 620a	1R2u	Ol l
h O&e dpe	16J71	aJSuaSu	au- J411	a0uuS0J	a01S0au	1Ru2	Ol l
h O&e dpe	16J72	420J- 6J	4210202	41S- a60	41auu6u	2RSu	Ol l
&ndpe	11J71	0S- 2466	012S64J	0S61a1a	0S01600	SR6-	Ol l
&ndpe	11J72	auJ1- 4	a0u11a	a0164S	a0u2a0	SR6a	Ol l
&C.	J472	- SS122S	2aJaJu4	- S- 661-	2aaa1- a	1R2a	Ol l
&C.	J672	J- 0J24aS	J2a0- 646	J44Sa0- J	J- 011aJ0	1R 4	Ol l
&C.	J072	1- u114J	12u16uu	1- S1aa6	1- 216Sa	- Rau	Ol l
KlEt iC.	u- 71	- 14	- - 6	- 2a	- 26	- R31	Ol l
Lpwn	2S671	11Sau2S	11SJ200	1S0u4uS	1Sa0uJa	1R34	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&piqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	a2SSu6	a1a02-	a1416-	a10aa1	SR 6	Ol l
Lpwn	2Su71	4JuSaJ4	4J- 064J	4JS002u	4J421Sa	SRu1	Ol l
LqjGqpe	671	24- 1S26	261Suaa	262JJ16	2JJJu14	4R24	Ol l
y wg. pl qpe	2472	aSJJS1	ua6- u0	ua- JJu	uau4u2	SR6a	Ol l
y w. gw. pl p	JJ72	a4a1a4	a- 4140	a4a- J-	a442- 1	SRa2	Ol l
y O&Er np. be	a471	1u- J4	1u4S4	10a2a	1u22a	1R4-	Ol l
y O&Er np. be	aJ71	1S- 62	aaa6	1SSS4	1S121	2RS0	Ol l
y O&Er np. be	a671	1204u	12a4S	1- SaS	12a26	1R -	Ol l
y O&Er np. be	a071	JuuJ	6SJ1	Ja4-	Ja6S	1R42	Ol l
y O&Er np. be	au71	1J4S1	1616u	1JS- 4	1JJ- 4	- R0-	Ol l
mpOnEe qpe	1JS71	1J- u- S	1JJS40	1JS1- a	1J- SSJ	1R60	Ol l
mpOnEe qpe	1JS72	40- 00	466JJ	4JuJ1	4662u	1R64	Ol l
mqOkp8	6S72	20a6u	20a01	2u- 6u	2u1S2	SRu2	Ol l
NGOl t GOlbl	- 172	4142	44a2	42- 4	42aS	4R2-	Ol l
NOiwl l qpe	- a72	46060a	40204J	40S- 0-	40S266	SR14	Ol l
F GOnqpe	1S- 71	6a6S40J	0S644J-	0Su014u	0S- 0- Ja	SRa6	Ol l
F GOnqpe	1S- 72	- 24u1- 6	- 21- 210	- 2S10J-	- 221S- J	SR0J	Ol l
DOw. nqpe	4J71	46Saaa6	4064616	461uJJ0	4664- ua	1Ru6	Ol l
DOw. nqpe	4J72	1J2SuS	1JS14a	14a6Ju	1JS62a	SRuJ	Ol l
Dp&p. qpe	u271	2JJ	101	104	2SS	2- Ru2	Ol l
Dp&p. qpe	0072	1- S	10S	1J-	1J1	1- R S	Ol l
Dp&p. qpe	0u72	1- u	111	120	12J	1SRu-	Ol l
Dq&qOC.	2u71	14- - 2- u6	14J2S- 4-	1462u1u2	144a- 6- 0	1RS-	Ol l
Dq&vpl	1S071	4a26	J4S1	J4a-	J20-	JR00	Ol l
Dq&vpl	1Sa71	J1S1	4626	J- 4-	JS2-	0R26	Ol l
DOnqpe	2- 72	u402a	u664a	uJuS2	uJ026	1R12	Ol l
DilC. iqpe	u671	- 6120S	- 6402-	- 6- 06a	- 6- 2J4	SR4a	Ol l
DilC. iqpe	uu71	- - S61- a	- 2a4u- 1	- - 1a0a6	- - S6a22	SR u	Ol l
Db&bl	- 471	2u0444	2ua- 04	2a1aaS	2ua6S2	SR0a	Ol l
cplr qpe	1Ja71	aa- J0Ju	1SSJaS4S	1SSau224	1SS- 1SS0	SRuJ	Ol l
cplr qpe	1Ja72	41S4JS-	4142- J1	4S0a- S2	41Su01a	SR00	Ol l
cGw&qpe	2S- 71	- 1Ja	2042	26- 4	2u4J	aR0J	Ol l
cGw&qpe	2SJ71	6ua4	606S	6a1a	6uJu	1R24	Ol l
cq	11u71	- a4- -	- au- 4	4S1Sa	- a0a2	SRu6	Ol l
cqjw. qpe	4071	11- uJ1	112Ju2	11- - 40	11- 26S	SR16	Ol l
5 lw. qpe	2- u71	J121-	JSJJa	J21- -	J1- S1	1Ru4	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	& l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T &piqC. MwOlCl :	1
Twip A cqe p d Qobdpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	J172	aS242	a1621	uu6u-	aS1u2	1R6-	Qtl
Yiiplr dpe	10271	1aJ0-	2S124	2S- u-	2SS20	2RS6	Qtl
Yiiplr dpe	10272	1S16S	aa6J	a6- 1	aa1a	2R6a	Qtl
Yiiplr dpe	10671	1420J	14S66	141SS	14140	SR0a	Qtl
Yiiplr dpe	10672	10- SS	16uJS	104S1	101u4	1R01	Qtl
Yiildpe	ua71	1- 02J42a	1- J64042	1- aS01J-	1- 0- 2441	1R2J	Qtl
Yiildpe	ua72	14622- J	1446uSa	14Jaa20	14J6- 24	SR10	Qtl
Zq O	6672	aaJS-	a01JS	aau0a	auu44	1R1S	Qtl
ZdqOC. dpe	aS71	- 2uaS	- - J66	- 2- uu	- 2a4u	1R0a	Qtl
ZdqOC. dpe	a171	026S	066a	0u6a	0Jaa	4RSu	Qtl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTl wb D8 :t&:J	y h SM2.	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cOcmb	2072	04626S	0- 0026	0- a1Sa	04S6. a	SR6	dDl
qCTb nCE	12171	24 S	21. 2	2242	22.	R.0	dDl
qpl r Ccl	0 72	2- . 1	2- 1a	22a4	2- - 1	2R	dDl
Bwpcmb	1- 71	- a S41	- a00S-	- a4- 0	- a 0S0	SR46	dDl
Bwpcmb	1- 071	6a4a4a	6a4- 01	60- 1a2	6aSaSS	SR.0	dDl
Br pE8&mb	. 71	- S66	- 1S2	- SS4	- S 0	1R6-	dDl
Bdl b mTG	2S. 71	6. S- - . 1	60S0406	6. - 24- 4	6a40060	1R0.	dDl
Bdl b mTG	2S. 72	- 2 S- 6a	- 2S4. -	- 16 S	- 2S6. 0	1R.2	dDl
Bpmb cOr	a171	6a6.	60a	6a6.	6a41	SR0S	dDl
9 wob cmb	1Sa71	1SS	12	1- -	11.	14R -	dDl
9 wob cmb	1S671	41S1	4a1a	4126	4- 4a	. R6	dDl
9 wob cmb	11171	14 0	16- 6	1 - 6	1 4-	Ra2	dDl
9 w8lcmb	4- 71	214 20	21- a2S	212 2a	21- 62	SR40	dDl
9 w8lcmb	4471	- 06a1S	- 61116S	- 661S 4	- 6aS1S6	2R1a	dDl
9 wpenC	1271	- aaa022	- a6240-	- . - S0 2	- a. - . a2	SRaa	dDl
9 wpenC	1272	40. . 6	4a00-	4. 2 S	4a60-	1R.S	dDl
9 G8hpcOr	- 71	22. 022- -	26a142 0	2. 10. a. 6	26- 2212.	11R.S	dDl
9 G8hpcOr	- 72	2261aS	226 . 6	2- 1. aa	22a2	1R42	dDl
9 Gpmb cmb	272	- 14-	- 102	- 1aS2	- 16 4	SR61	dDl
9 new8T	. 72	- 6- 0-	- 4a1	- 6S22	- . .	1R2	dDl
9 nDDr p	6- 72	6011	60004	60- . 6	6042a	SR4.	dDl
&El Dpnl cmb	1 671	a6014	a0 a6	a a4-	a6014	1RS1	dDl
&El Dpnl cmb	1 672	- 0. 44	- a6a	- 02- .	- 0S10	2Ra	dDl
Upecmb	16471	6. - - 2	0S. S0	6a400	6. 02	1R0	dDl
Upecmb	16472	2a16-	2aaa	2a2a4	2a444	1R.6	dDl
Hwon8Ccmb	16S71	aSS66	aS4S1	06621	0. S2.	2R6	dDl
Hwon8Ccmb	16S72	- 0aa1	- 02 2	- 06 0	- 0 . 6	SRa	dDl
h n8b cmb	16 71	. a0- 00	. . - 62- 2	. a11016	. a0- . S0	SR6-	dDl
h n8b cmb	16 72	4142aa6	416. 60S	41- S 1S	41406a.	SR4a	dDl
tCocmb	11 71	026SSa-	02a614	01- 1- 64	022 a64	1R1	dDl
tCocmb	11 72	. 0- 24a	. S. 4S	. 60S-	. 6- 041	1R1.	dDl
tpnC	472	22 - 01-	22. S4a2	22a111a	220 1S4	SRa4	dDl
tpnC	672	416aS0S1	411 4006	4S. 4S126	412 a - 4	SR.2	dDl
tpnC	072	1SS0S. a	. 01104	. 0S26S	. a2a44	2R14	dDl
KpEDTnC	a- 71	- 61	- .	- 1S	- 4-	aR42	dDl
Lr wo	2S671	4 Saa2	4 a2- a	4 6. 2	4 - 4a	SRa6	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 44671	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SM2.	&c8mTcnC:MwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	ywl l	9NI 1	9NI 2	9NI -	9NI yrwC	9NI Fl &	5CdT
Lr wo	2S071	- 0- S- 2	- a1244	- a2 16	- 0a. - 1	1R6	dDl
Lr wo	2Sa71	1001Sa1	10002. 4	10a6. 11	100a42.	SR4	dDl
LdTGmb	671	2 1 S40	2 S. 4a	2 aaS01	2 1-	1R4-	dDl
y wgCr l cmb	2472	6- 4a4	642a. 6	6 10SS	64- - 6S	1R26	dDl
y wCgwCr l r	72	6a16-	. 601	61- aS	6- S01	SRaS	dDl
y n8Eeor Cmb	. 471	121a.	126- 1	120. a	12 - .	2R 1	dDl
y n8Eeor Cmb	. 71	4SS1	44S1	41S1	4160	R8SS	dDl
y n8Eeor Cmb	. 671	621a	61a	a1S	6S01	- R04	dDl
y n8Eeor Cmb	. 071	260	24 S	2642	2 a.	4R6.	dDl
y n8Eeor Cmb	. a71	6020	6600	0Sa	6a- S	- R26	dDl
u r noEb cmb	1 S71	16S22	161. 14	1 466-	1 a. - 4	2R .	dDl
u r noEb cmb	1 S72	4. 14S	4a. 06	4. 2 -	4. 12-	SR2a	dDl
u cdkr 8	6S72	2S44	2S -	2S- - a	2S4- .	SR4a	dDl
NGhl DGhpml	- 172	2- 0	2SS.	21 S	210a	aR4.	dDl
NnTwl l cmb	- . 72	- a0S2a	- a1S12	- a- . 1	- a- . . 0	SR0a	dDl
F Ghocmb	1S- 71	014S4- S	01SS. 44	0S00aa.	01S6421	SR4	dDl
F Ghocmb	1S- 72	- 22 - 2.	- 2Sa0 4	- 22- 4S4	- 21. 16-	SR2a	dDl
l dwCocmb	4 71	401- S66	461200	46a0-	4601S6	1R12	dDl
l dwCocmb	4 72	14. S11	14- 0a2	14 46	14611-	1Ra2	dDl
l r 8 Ccmb	a271	1-	a	141	12S	2 R6S	dDl
l r 8 Ccmb	0072	1 0	10S	2S-	100	1- R61	dDl
l r 8 Ccmb	0a72	1- 6	126	1- S	1- 1	- Ra	dDl
l c&dlnC	2a71	1S. . 022	1124- 1	11- 0a- - 6	112S 0- a	1R0-	dDl
l c&vr p	1S071	42S1	41S1	4- .	422S	- R8.	dDl
l c&vr p	1S. 71	41S1	4142	- . 26	4S 6	2Ra4	dDl
l nocmb	2- 72	4S624	4S2- .	4S. SS	4S aa	SRa2	dDl
l TpnCTcmb	a671	10S4 .	10- 6- 1	10SS4	101- 0a	1R14	dDl
l TpnCTcmb	aa71	1 2. S6-	1 201a6	1 . 6- 24	1 Sa a	2R 4	dDl
l m8mp	- 471	26. 6-	201244	26. a0a	20S2 -	SR 2	dDl
Ar pecmb	1 . 71	1S1- a - -	1SS- S6. .	1S2S4aS0	1S1246aS	SRa0	dDl
Ar pecmb	1 . 72	4S0S2a0	4S1. . 21	- . . 042	4S2a6 S	SR 4	dDl
AGw8cmb	2S- 71	2 10	2 - 4	- 110	202-	12R	dDl
AGw8cmb	2S 71	6 6.	6- 00	6S1a	6- 21	4R42	dDl
AcC	11a71	11 6-	11a14	112- a	11 - a	2R S	dDl
AcTwCcmb	4071	1- S214	12aa2	1- 1. 6-	1- S- - 4	1R21	dDl
5 pwCcmb	2- a71	- 12a.	- S 46	2. 0-	- S 24	2R	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SM2.	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	172	6 2-	66011	66216	66S 4	1R14	dDI
YTTr pecmb	10271	21142	2126a	21260	21226	SR 4	dDI
YTTr pecmb	10272	1S6- a	1S14.	1S4aa	1S42	2R4S	dDI
YTTr pecmb	10671	1460	1 - 6a	144 S	14a- 1	- R22	dDI
YTTr pecmb	10672	16. S	10- a4	1004	10- 6S	2R2.	dDI
YTTpcmb	a. 71	14S2SS2.	141 S .	1416- Sa4	14112024	SR 0	dDI
YTTpcmb	a. 72	146S612	1424122	1- 2SSS	141224	- R 1	dDI
ZcCd	6672	4- 46-	4- 10	4- 26-	4- - SS	SR 4	dDI
ZqpdnCcmb	. S71	20461	2a246	2a- 2.	2aS12	1R01	dDI
ZqpdnCcmb	. 171	64a	6400	aa	62a2	R4a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:dQobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqI
d8be qFqpe	20 2	2S7J114	2SJ661y	2S61717	2SJ1S1J	SU6u	Qt l
dFiqe . Fh	121 1	2Juu246	26uyu7y	267y244	267y11S	1Uy2	Qt l
dIl pFqO	0J 2	66041	661yu	60S1J	666J1	SU62	Qt l
Bwlqpe	17J 1	2u2y46u	2u00S60	2y1Sy7S	2u024uu	1U42	Qt l
Bwlqpe	170 1	4uy6u00	J17J121	J1Juu2J	JS676Su	2Uu6	Qt l
Bplh8qpe	y 1	6120yJ	62J7y0	6261J1	62144u	1U21	Qt l
Bqe biE	2Sy 1	62271uS	61140u6	6SJuu4y	6172201	1U76	Qt l
Bqe biE	2Sy 2	2yS1J76	2u7u606	2y2u146	2uuy4J7	1UJy	Qt l
Bl. e qFp	u1 1	42S1	7y60	7uSy	7yy2	4Uy4	Qt l
3 wne qpe	1Su 1	J1u64	J1u14	J2SJ6	J1y11	SU2J	Qt l
3 wne qpe	1S6 1	024S0	061y4	07yJu	041u6	2UJ0	Qt l
3 wne qpe	111 1	6167u1	67S6u1	67Su6S	62Jy04	1U77	Qt l
3 w8Qqpe	47 1	76J4S60	70uu2u6	70JS0yy	7071SJ1	1Uu6	Qt l
3 w8Qqpe	44 1	Juy44247	617J4676	Jy270u12	Jyu4JJ64	2U2S	Qt l
3 wlr . F	12 1	26420yJ	2020742	20u0S4u	201yS62	2U60	Qt l
3 wlr . F	12 2	76S11	7u67J	70y66	70J70	7U67	Qt l
3 E8 lqFp	7J 1	2244647	22460uJ	2140uuy	22171S6	2UJJ	Qt l
3 E8 lqFp	7J 2	14y2J	141u2	17Ju2	1427S	4U07	Qt l
3 El. e qpe	J2 2	0124y7	0127y0	0SJ714	01SS6u	SUJu	Qt l
3 . r w8	Jy 2	12uSySu	12641y7	120210y	1202420	SU66	Qt l
3 . t t pl	67 2	117S02Ju	1Su6u060	11Sy60J2	11SySy26	1Uyu	Qt l
Thl t l. l qpe	1J6 1	010	660	0JS	011	JUyS	Qt l
Thl t l. l qpe	1J6 2	777	2u0	76S	720	11U76	Qt l
Glr qpe	164 1	142	2Su	1y2	1u1	1yU22	Qt l
Glr qpe	164 2	u0	J0	00	07	2SUu7	Qt l
Hwn. 8qFqpe	16S 1	Jy2	u2J	610	60u	1uUyS	Qt l
Hwn. 8qFqpe	16S 2	JS0	46S	7u0	4J1	17U41	Qt l
K. &e qpe	16J 1	yS2J01S	y1y607S	y1J241J	y124yJ1	SUy0	Qt l
K. &e qpe	16J 2	4S1SJ70	4SS170J	7y41y1J	7yu46Sy	SUy4	Qt l
&Fnqpe	11J 1	67S1y6y	67yy1JJ	67uu72J	67671JS	SUu4	Qt l
&Fnqpe	11J 2	uuS4Jy	u0J6u7	u0yuu6	u0u606	SU7S	Qt l
&. F	J4 2	uJyJ6y1	u1yS674	u1y6S2u	u7204J1	2U0y	Qt l
&. F	J6 2	1J2S11642	1JSS40026	14yuJu10S	1JS67y10y	SU0y	Qt l
&. F	J0 2	7y4u0uy	7u2u2Ju	7u72S61	7u6y0S7	1U00	Qt l
glht i. F	u7 1	21S	2S0	20S	22y	1JU44	Qt l
Lpwn	2S6 1	1210Su1J	126uSyJJ	12JSJJ7S	124J2477	2USu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
Lpwn	2S0 1	1SJ77SJS	11S1SSSu	1SuSSJSS	1S0u11u6	2U22	Ot l
Lpwn	2Su 1	4uu2166S	JS04421y	4yu60y72	4yu1120S	1Uy7	Ot l
LqiEdpe	6 1	22S1160	27S2474	22100J6	224S4J2	2U42	Ot l
5 wkFpl dpe	24 2	2u777S16	2u7u22y2	2uJy702S	2u476747	SU4y	Ot l
5 wFkwFpl p	JJ 2	7uyu4S0	7u1117J	70640y0	7u2400y	1U00	Ot l
5 . 8hr npFbe	y4 1	yJ12711	y0S7740	y6210J2	y61240S	1USS	Ot l
5 . 8hr npFbe	yJ 1	170ySSu1	14114247	14S1uSyJ	17y0417y	1U1y	Ot l
5 . 8hr npFbe	y6 1	1J2SJyy1	1J711616	1J272yy0	1J2JS2S1	SU76	Ot l
5 . 8hr npFbe	y0 1	u7y1444	u6Ju22u	u647yS7	uJ64J2J	1U0J	Ot l
5 . 8hr npFbe	yu 1	210S0JJy	22u646y2	27146S02	22J02004	7U7u	Ot l
mp. nhe dpe	1JS 1	7SS	2u0	1uS	2J6	2JU04	Ot l
mp. nhe dpe	1JS 2	6S	67	70	J7	20U24	Ot l
mqOvp8	6S 2	7JS146	7427u4	74J47u	74JyyS	1U17	Ot l
NE. l t E. Ibl	71 2	1y0u1	2Sy04	1y014	2S1J6	7UJ2	Ot l
N. iwl l dpe	7y 2	uyy0y17	uuu06yJ	u6uyJu1	uuJu7y6	1U06	Ot l
9 E. ndpe	1S7 1	6S417y4	61y2J00	61J77yy	612y127	1U2u	Ot l
9 E. ndpe	1S7 2	20uy002	2uSyy0S	2u61706	2u2S707	1U71	Ot l
DOwFndpe	4J 1	4Syu262	4271220	4SJJS00	412u1uy	2U22	Ot l
DOwFndpe	4J 2	1760yu	17J062	174u67	17JuSu	SU01	Ot l
Dp8pFdpe	u2 1	4J40u	46y1u	4616u	461uu	1UJ6	Ot l
Dp8pFdpe	00 2	1417	176S	1JS7	1426	JUSu	Ot l
Dp8pFdpe	0u 2	4027	4012	4u6S	406J	1U07	Ot l
Dq8Q F	2u 1	202S2202	2u7S6y04	2u11J762	20u04u6y	2U12	Ot l
Dq8pl	1S0 1	7742uuS	7761u7J	7746264	77JS726	SU7S	Ot l
Dq8pl	1Sy 1	72S7y42	7107404	722J6Jy	72S1S2J	SUu2	Ot l
D. ndpe	27 2	JS0yS64J	JS2uJ460	JS1212yS	JS7yy174	SU6y	Ot l
Dil. Fidpe	u6 1	1uuJuu7J	1y202S22	1u04y40u	1uy6S112	1U4J	Ot l
Dil. Fidpe	uu 1	161uuy404	16yS2440J	1642777u7	16JS4y111	2U2S	Ot l
Db8Vl	74 1	J4uu42	JJ1S0u	J4uS76	J4y71y	SU2y	Ot l
cplr dpe	1Jy 1	y2Ju4y2	y7J77y0	y7664uy	y726126	SU67	Ot l
cplr dpe	1Jy 2	7uySu60	7uS6y0y	7y46u10	7uu1JJ4	1Uu1	Ot l
cEw8pe	2S7 1	2y77uJy	2y6Jyu0	2yuJ60y	2y61u42	SUuu	Ot l
cEw8pe	2SJ 1	0Sy1uSu	011477y	0S10222	0S044J6	SU02	Ot l
cqF	11u 1	217S670	22171yu	2144766	2162074	2USJ	Ot l
cqwFdpe	40 1	76u626J	7u766u0	70266S7	704yuJ1	2USu	Ot l
RlwFdpe	27u 1	1SJy2661	1S66uu1u	1S0S6Ju0	1S6J6S22	SUJ4	Ot l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 3 - S24	&Fl iIbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T :a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
- wFwndpe	J1 2	JJu46u	J40616	JJJ2S2	JJ7062	1US1	Qt l
Yiiplr dpe	102 1	210	2y2	10J	22u	2JUy6	Qt l
Yiiplr dpe	102 2	1S6	0u	111	yu	1uU1y	Qt l
Yiiplr dpe	106 1	17472	14177	170J0	17004	2UJJ	Qt l
Yiiplr dpe	106 2	1J706	1J7y2	1J672	1J460	SUy7	Qt l
Yiildpe	uy 1	11J44206	1107y7J4	110u7J14	116uyS4u	1USy	Qt l
Yiildpe	uy 2	12S1J7J	11uSuSJ	11yu7yy	11y7JuS	SUy4	Qt l
ZqFO	66 2	12uSJJJ	12Ju17S	126u6u0	126y124	SUuu	Qt l
ZqQ Fdpe	yS 1	446y701	44yS1S7	4674660	4J717u1	1Uyy	Qt l
ZqQ Fdpe	y1 1	y07yy2	yuS4u4	yyy1u0	yu4JJ4	1U77	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
q8mb c mb	2072	14:	242	- S0	2- 2	- : U 1	dDl
q. Tb C. y	12171	11: a	14h2	16- -	142a	10U$a	dDl
qpl r . cl	0: 72	6	1-	12	1S	- 6U64	dDl
Bwpcmb	1- : 71	- Sa	- : S	142	260	41U 4	dDl
Bwpcmb	1- 071	: - -	: 60	- 42	4a1	2: U20	dDl
Br py8&mb	h71	101	164	116	1: S	1hUa-	dDl
Bdl b mTE	2Sh71	6: - aS6-	62h6a44	641S06h	641: 22:	1Uaa	dDl
Bdl b mTE	2Sh72	- Shh12-	- S66264	- Sa- a40	- Sa- S0a	SU -	dDl
BpCb c r	a171	- 610	- 0- 4	- ah2	- 04a	- U6a	dDl
3 wob cmb	1Sa71	- -	21	- -	2h	24U0:	dDl
3 wob cmb	1S671	- 460	- 460	- a: 1	- : h:	6U16	dDl
3 wob cmb	11171	46:	404	4- -	4: 0	4U0:	dDl
3 w8lcmb	4- 71	6: 4	0ah	41:	61h	- SU 0	dDl
3 w8lcmb	4471	42aS0	42h- a	- 0h0S	412- a	6Ua6	dDl
3 wpeC.	1271	222S0S0	21a: - S6	21ah4- h	21ha4a4	SUaa	dDl
3 wpeC.	1272	26016	26S24	20S10	26: a6	1Uh2	dDl
3 E8Cpc r	- : 71	102S: : h	1664- S6	1612101	166: 60h	- U2:	dDl
3 E8Cpc r	- : 72	11SS4	1S: 46	1S446	1S66:	2U0h	dDl
3 EpCb cmb	: 272	111S	1100	1110	11- :	- U24	dDl
3 Cew8T	: h72	- 0	14S	140	1Sa	: 0U22	dDl
3 CDDr p	6- 72	1h0-	2444	2: 40	2- 21	1- U10	dDl
&yl DpCl cmb	1: 671	a	a	10	11	4- U 4	dDl
&yl DpCl cmb	1: 672	0	S	S	2	10- U21	dDl
Fpecmb	16471	: a	: a	2:	40	4SU0:	dDl
Fpecmb	16472	2S	2-	2-	22	aU6:	dDl
GwoC8c mb	16S71	h2	a-	0:	a-	1SU$S	dDl
GwoC8c mb	16S72	hS	1: S	1S0	116	26UaS	dDl
HC8b cmb	16: 71	h1S06a4	h- - h: : 1	ah- Sh11	h126S4h	2U2:	dDl
HC8b cmb	16: 72	- h4h11h	- hh6- 14	- ha1Sh-	- h0: : Sh	SU61	dDl
t. ocmb	11: 71	601a204	6: : 4224	6: 1- 66a	6: h: - ah	1U64	dDl
t. ocmb	11: 72	h140h6	h- - 12h	h20: : a	h2: 161	1U$2	dDl
tpC.	: 472	: 60	hS6	ha-	a1h	20U$0	dDl
tpC.	: 672	0Sh1	12- 00	14a00	1144h	- 4U02	dDl
tpC.	: 072	2ah	- : 6	410	- : 4	1aU$0	dDl
KpyDTC.	a- 71	2- h	201	2: :	2: :	6U 0	dDl
Lr wo	2S671	260a	26- 4	2- SS	2: - 0	aU14	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wo D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wo D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Lr wo	2S071	2: 11	2- 2-	1011	21a2	1hU10	dDl
Lr wo	2Sa71	11S14	1S042	h1- 1	1S2h:	hUah	dDl
LdEmb	671	22: S- h2	2- 16a22	22a0S06	22a406-	1U46	dDl
5 wg. r l mb	2472	: 0:	1: Sh	24a4	1: 2-	62U6h	dDl
5 w. gw. r l r	: : 72	11S	24S	4: -	26a	64U04	dDl
5 C8yeor . mb	h471	1hSS	1h10	16SS	1aS6	hUa0	dDl
5 C8yeor . mb	h: 71	- 4Sh	4Saa	2S2:	- 104	- - U12	dDl
5 C8yeor . mb	h671	- 206	- 242	22Sh	2hSh	2SUa:	dDl
5 C8yeor . mb	h071	1: 60	14a-	1- 10	14: 6	aU0:	dDl
5 C8yeor . mb	ha71	446a	: S1h	- S42	4106	24U42	dDl
u r Coyb mb	1: S71	0	2S	20	1a	: 0U20	dDl
u r Coyb mb	1: S72	-	S	-	2	a6U6S	dDl
u dkr 8	6S72	4S	6S	0-	: a	2hUS4	dDl
NEC DECpm	- 172	12:	2: S	242	2S6	- 4USS	dDl
NCTwl mb	- h72	1- 4- 1	1- - 6:	1- 14S	1- - 12	1U1:	dDl
9 ECoomb	1S- 71	6: 422: 2	66: a142	6: S16- 6	6: 60- 4-	1U24	dDl
9 ECoomb	1S- 72	- S- a2S0	- 1aaS1-	- S1142a	- S0h216	- USh	dDl
l dw. omb	4: 71	4S2: h41	4S6- 0Sa	41- 1: 1S	4S0- 02S	1U- 1	dDl
l dw. omb	4: 72	1- : : a4	1- 442h	1- 64S1	1- : 401	SU0-	dDl
l r 8 . mb	a271	71-	741	14	71-	72S6U- 2	dDl
l r 8 . mb	0072	S	S	S	S	SUSS	dDl
l r 8 . mb	0a72	2-	22	16	2S	1aU62	dDl
l 8dC.	2a71	1ha21h	1hS4: h	1ah22:	1h26- 4	2U-	dDl
l 8vr p	1S071	4- -	- - -	- 60	- 0a	1- U4a	dDl
l 8vr p	1Sh71	- 42	- 60	- Sa	- - h	aU64	dDl
l Coomb	2- 72	40haS	4h2h6	4a0a2	4a6a6	1U- 6	dDl
l TpC. Tmb	a671	242:	24: h	14: h	2114	26Ua0	dDl
l TpC. Tmb	aa71	2120-	1: 641	h: : S	1: 4aa	- 0Ua:	dDl
l m8mp	- 471	2h44: a	2h42h6	2h666a	2h: 14S	SU4:	dDl
Ar peomb	1: h71	h- 1: 42a	h202S: :	h14- 4: h	h24- 640	SUh0	dDl
Ar peomb	1: h72	- 00- aS-	- aa2: a2	- h24a46	- a6S41S	2USS2	dDl
AEw8mb	2S- 71	2S60	1hSh	14- -	1aS-	1aU2h	dDl
AEw8mb	2S: 71	- ha4	4Sh-	- 410	- a- 1	hU40	dDl
Ac	11a71	- a6h	142:	142:	224S	6- USS	dDl
AdTw. mb	4071	a0:	0a-	410	6h2	- : USS0	dDl
Rpw. mb	2- a71	1S- -	1: 10	00:	11Sh	- - Uha	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Vw. wocmb	: 172	- -	40	h-	: a	: 4U-	dDl
YTrpecmb	10271	42	: S	: a	: S	16U60	dDl
YTrpecmb	10272	- h	10	2a	2a	- hUhh	dDl
YTrpecmb	10671	11h2	1- : a	1S2:	11h2	1- Uhh	dDl
YTrpecmb	10672	h: 4a	1S6hh	1S- 01	1S2S6	: Ua1	dDl
YTpcmb	ah71	11hSh: h0	11a2hhh-	11h126ah	11aa4Sh-	SUh	dDl
YTpcmb	ah72	12S40a-	122hah0	1220aa1	122Sa: 4	1U14	dDl
Zc d	6672	16-	1h0	26-	2Sa	24U1	dDl
ZqpdC. cmb	hS71	h0:	1S10	0- -	hSa	16Ua4	dDl
ZqpdC. cmb	h171	142	210	160	10:	21Ua2	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
q8mb cCmb	2072	a: 2611	a4aS6-	a- ah16	a46: - S	SMd2	dDl
qCTb nCE	12171	4406	: 426	40: h	4aa0	hMla	dDl
qpl r Ccl	0: 72	2SS2	2S0-	1hah	2S22	2M24	dDl
Bwpcmb	1- : 71	41212h	4Sa141	41611-	41212a	SM10	dDl
Bwpcmb	1- 071	0- : - h2	0224Sh	0- : 402	0- 1Sh1	1M8-	dDl
Br pE8mb	h71	- 6hS	- 04S	- a2a	- 0: -	1Md:	dDl
Bdl b mTG	2Sh71	60aha- 0	662S- 26	6- aah00	6: hh01-	- M8:	dDl
Bdl b mTG	2Sh72	- S62: - h	- S6S: Sa	- 1224a1	- Sa1a4-	1M14	dDl
Bpmb cCr	a171	h4S-	111- S	1Sa21	1S4: 1	aMd1	dDl
5 wob cmb	1Sa71	1Sa	1S4	h2	1S1	aM16	dDl
5 wob cmb	1S671	42Sh	- h- 4	4SSh	4S: 1	- M11	dDl
5 wob cmb	11171	1S62	1S: S	h0S	1S20	4Md:	dDl
5 w8lcmb	4- 71	- 1: 26S	- 1a- 6-	- 1a: 4:	- 10- ah	SMla	dDl
5 w8lcmb	4471	: 24S- a4	: - 12S: 2	: - 06: 20	: - Sh6: 4	1M2a	dDl
5 wpenC	1271	2h644: 0	2ha0: hh	2h: 2h40	2h6a- - 4	SMlh	dDl
5 wpenC	1272	- 6112	- 0- hS	- 0Sa1	- 6a61	1Md1	dDl
5 G8hpCr	- : 71	112- 6- - 0	146- 44- 2	10- 14461	14- h: S00	21M16	dDl
5 G8hpCr	- : 72	1: : 664	1620a-	16: : 64	161- - 0	- M16	dDl
5 Gpmb cmb	: 272	4141S	41- 6S	4S6S4	4112:	1M1S	dDl
5 new8T	: h72	- a0- 6	- 061-	- aS- 4	- a12a	1M4h	dDl
5 nDDr p	6- 72	: 026a	: 6S- 4	: : : aa	: 62h0	1M:	dDl
&El Dpnl cmb	1: 671	1S4: 1:	1S: 222	1Sa: a2	1S61S6	2M8:	dDl
&El Dpnl cmb	1: 672	462hS	44a- a	4: 41S	4: : 1-	1M01	dDl
Fpecmb	16471	a: - 24	a0462	a64S:	a6- h0	1M24	dDl
Fpecmb	16472	- : 2- S	- 40- 2	- 4- : a	- 400-	1M26	dDl
Hwon8Ccmb	16S71	hh02-	hhh16	hh- : 2	hh664	SM2h	dDl
Hwon8Ccmb	16S72	46h66	46a- 2	46- 44	46014	SM0S	dDl
y n8b cmb	16: 71	h646: S1	h: 2- 10h	h2S: 412	h4: a- 64	2M41	dDl
y n8b cmb	16: 72	- ha64- 2	4S: 0aS6	4S0: 6: S	4S- hh62	1M10	dDl
tCocmb	11: 71	0SSh- : -	6a12040	6- a46h6	60- : : hh	4M04	dDl
tCocmb	11: 72	h1: - 6a	h26441	h- 4046	h2: : 1a	1M8:	dDl
tpnC	: 472	244a: 0-	24S4- 06	2- : 44- 2	24S2461	1M16	dDl
tpnC	: 672	4- 6h: 1- S	4- 261aa0	4- 1a: h4-	4- - aSha0	SM0-	dDl
tpnC	: 072	1S- a221	1S4S: 12	1S2: 1aa	1S- 4641	SMdS	dDl
KpEDTnC	a- 71	- 61	- - h	- - 6	- 4:	- Mlh	dDl
Lr wo	2S671	1h: aa4	1hh- : 4	1h: 12-	1h60a0	1Ml:	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdCmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S071	1: 0hSa	1: 0062	1: 6SSh	1: 0226	SM60	dDl
Lr wo	2Sa71	0: 1aa-	0: 0hhh	0: S201	0: - - a4	SM4	dDl
LdTGmb	671	240: - ah	2- 00- ha	2- 64- 1:	24S: 0S1	2M2	dDl
9 wgCr l mb	2472	6S1a0S	: h1- : 0	: a0- 1a	: h- : 1:	1M20	dDl
9 wCgwCr l r	: : 72	: 1000h	: Sh: : 4	4h00h4	: Sa- 06	1M1a	dDl
9 n8Eeor Cmb	h471	11h- S	12Sh0	1260-	122- -	- M1a	dDl
9 n8Eeor Cmb	h: 71	- 0h2	- 6Sh	- h10	- 00-	4M11	dDl
9 n8Eeor Cmb	h671	616a	6Sa:	: h26	6S6S	2M8-	dDl
9 n8Eeor Cmb	h071	22: S	26a4	2- h2	2442	hM8:	dDl
9 n8Eeor Cmb	ha71	6220	60S2	0h2a	6h: 2	12M0-	dDl
u r noEb cmb	1: S71	1h0: 02	2S2244	2S21S6	2SS641	1M-	dDl
u r noEb cmb	1: S72	62Sa0	6S462	6Sh: a	6116h	1M6	dDl
u cdkr 8	6S72	2- 44-	22ha:	22a62	2- Sh0	1M-	dDl
NGhl DGhpm	- 172	12a-	1460	11a-	1- 11	1SM6	dDl
NnTwl mb	- h72	- 2a041	- - 1Sh6	- 20h2:	- 2h2: 4	SMS	dDl
. Ghocmb	1S- 71	60a21aS	60S6- S6	64- 0- - 2	6641h- h	2M0-	dDl
. Ghocmb	1S- 72	2hhS0h2	- 1S12: 2	- 1- haa1	- S00- Sa	2M1	dDl
l dwCocmb	4: 71	4: 11h4h	44- h- 62	420- - a0	44Sa2- -	2M00	dDl
l dwCocmb	4: 72	1- h2a2	142664	1- h4a6	14S400	1M:	dDl
l r 8 Cmb	a271	110	1: 6	1- 4	1- 6	14M-	dDl
l r 8 Cmb	0072	21S	2S-	21S	2Sa	1M4:	dDl
l r 8 Cmb	0a72	10:	16h	144	16-	1SM1	dDl
l 8dnC	2a71	144: - a26	14: : hh20	144S2S- a	14401h- 1	SM6	dDl
l 8vr p	1S071	1- 60	1- 0:	1- Sa	1- : S	2M0h	dDl
l 8vr p	1Sh71	10: h	110:	1- h2	1442	2SM46	dDl
l nocmb	2- 72	: h2S0	: : - h0	: 6061	: 0122	- M1a	dDl
l TpnCTcmb	a671	14210h	14: 141	146S: 2	1444: 0	1M4S	dDl
l TpnCTcmb	aa71	12- : 16-	120a01h	1261h46	12: a6Sh	1M0:	dDl
l m8mp	- 471	2h: 0- 2	2aa: 12	2a4S6S	2ah4- :	2M84	dDl
Ar pecmb	1: h71	hhh- 111	h06hSa4	h4- S22:	h0- SaS6	2M11	dDl
Ar pecmb	1: h72	- h144Sa	4S: 22h4	4SS0- - S	- hh1- 44	1M06	dDl
AGw8mb	2S- 71	4206	4- h-	4- 1a	4- 2h	1M0	dDl
AGw8mb	2S: 71	1S- 6-	1S: S:	1S2S4	1S- : 0	1M4:	dDl
AdC	11a71	1S046	1Sh46	1S601	1S0aa	1M2	dDl
AdTwCmb	4071	1S0- a:	1S- 6: 0	1S41: 4	1S: S6:	1M1-	dDl
RpwCmb	2- a71	2h01h	- SS61	- Sa- S	- S2S-	1M1a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	0S0h4	01S1:	6h- 0S	0S- h-	1M20	dDl
YTTr peomb	10271	26h2S	202h:	260a6	20SSS	SM1a	dDl
YTTr peomb	10272	1262-	12: - h	120a4	1264h	SM1a	dDl
YTTr peomb	10671	1a1: :	1a0ah	1h- hS	1a00a	- M2h	dDl
YTTr peomb	10672	1a: aS	1a2- :	1h2h2	1a0S2	2M1a	dDl
YTTpomb	ah71	1- 6ahhS4	1- : 4S26h	12hha2: 0	1- 4Sh400	2M01	dDl
YTTpomb	ah72	14SS1- h	1424aa6	14S626a	141S4- 1	SM11	dDl
ZdCd	6672	2haa:	2h4ha	2h: 20	2h6- 0	SM0-	dDl
ZqpdnComb	hS71	266- 4	20ah:	2aS0h	20: - 6	2M46	dDl
ZqpdnComb	h171	64: 2	6420	6- a:	6421	SM12	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cOcmb	2072	- 66h01	- 01: 4:	- 6a44S	- 6aha:	SM0-	dDl
qCTb nCE	12171	4S42	42h2	4: 1a	42a4	: M:	dDl
qpl r Ccl	0: 72	1- a4	141-	1: S4	14- 4	4M0	dDl
Bwpcmb	1- : 71	26Sa6-	26412:	2: a4S:	2611- 1	1M1S	dDl
Bwpcmb	1- 071	4: 2aSS	40- Sa0	46h: Sh	46: 1- 2	2M-	dDl
Br pE8mb	h71	21SS	2S00	2Sh4	2ShS	SM6	dDl
Bdl b mTG	2Sh71	60: 11- a	6a6h- S:	66hhSh1	600- 10a	1M2h	dDl
Bdl b mTG	2Sh72	- 11h- S0	- 1464: S	- 241S2:	- 16ah2a	2M82	dDl
Bpmb cOr	a171	601a	6: 4-	6400	6: 0h	1M1S	dDl
5 wob cmb	1Sa71	110	1- a	101	142	1hM2h	dDl
5 wob cmb	1S671	4S42	- 026	41a4	- ha4	: M4h	dDl
5 wob cmb	11171	2100	2S: 1	2S61	2Sh0	- M-	dDl
5 w8lcmb	4- 71	1Sa6aS	111a6-	112SS4	11Sa4h	1M0S	dDl
5 w8lcmb	4471	1hS2: 12	1h4Sh6:	1h- - 4h:	1h2: 6: 0	1M86	dDl
5 wpenC	1271	400ah62	: S: - - - h	: 2Sa411	: S1- : 01	4M4	dDl
5 wpenC	1272	6- 0aS	62006	62: 42	6- S- 2	1M84	dDl
5 G8hpcOr	- : 71	100S- 60S	21ah2- S:	2- hSa6: -	2116a2Sh	14M1:	dDl
5 G8hpcOr	- : 72	1h2: 1a	2S24- 4	2S: a22	2SS2: a	- M4:	dDl
5 Gpmb cmb	: 272	22S44	22S1S	22- - 1	2212a	SM4S	dDl
5 new8T	: h72	1a14a	1hSaS	1h1h-	1aaS0	- M8:	dDl
5 nDDr p	6- 72	a0126	a6046	aaSS1	a02h1	SM04	dDl
&El Dpnl cmb	1: 671	: 41h4	: : : 66	: 6: 4:	: : 4- :	2M1-	dDl
&El Dpnl cmb	1: 672	2- S60	2- h6:	2461h	2- aa4	- M26	dDl
Fpecmb	16471	- h6a:	4S20S	4SS11	- hhah	SM0-	dDl
Fpecmb	16472	10S6a	16a14	10- 02	10Sa4	1M6-	dDl
Hwon8Ccmb	16S71	4a- - S	4h- a4	: S10a	4h2h0	1M4a	dDl
Hwon8Ccmb	16S72	2- : : a	2- : 61	2- 04a	2- 622	SM46	dDl
y n8b cmb	16: 71	h: - 6haS	h61a24a	h44SS6:	h: - 1064	SM14	dDl
y n8b cmb	16: 72	4S42- a2	414S: 00	42S604-	412hhS1	2M8S	dDl
tCocmb	11: 71	66aa: 6-	6a04S42	6a1a2ha	60h- 6- 4	1M4S	dDl
tCocmb	11: 72	h2ha1h	h4a- : :	h0S: h:	h4h: hS	2M1:	dDl
tpnC	: 472	11: 2a0a	1144444	1101h1h	11: 6414	1M22	dDl
tpnC	: 672	21ah- - a2	224S0624	22612: - 0	22- S4: 1:	1M66	dDl
tpnC	: 072	: 2- - SS	: 204- 1	: 2a- 2:	: 26- : 2	SM1	dDl
KpEDTnC	a- 71	2h1	2h4	- 1h	- S1	: M8:	dDl
Lr wo	2S671	01: 6h0	020616	02S: 44	0212a6	SM4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&c8mTcnC UwdTnpJ	1
&wTr i Adb r qdCmpr o J	2S2- 7S0712 1: J14J1a	&wTwUc8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S071	: hS46:	61h062	61Sh4S	6S0S: 6	2M4a	dDl
Lr wo	2Sa71	2aS- : 06	- S1S02S	2a6622a	2ah- : Sa	- M60	dDl
LcTGmb	671	2404S0:	24: Sa01	244S0h2	24: : 246	SM0S	dDl
9 wgCr l cmb	2472	24h: a1	24h11-	2: 1200	24hhhS	SM46	dDl
9 wCgwCr l r	: : 72	- 4: h62	- : 1242	- : 4416	- : S: 4S	1M22	dDl
9 n8Eeor Cmb	h471	ha62	1S221	h00h	hh: 4	2M6	dDl
9 n8Eeor Cmb	h: 71	- 060	- hSh	41Sh	- h2a	4M0	dDl
9 n8Eeor Cmb	h671	: : S1	: h1a	: 6- :	: 6a:	- M0:	dDl
9 n8Eeor Cmb	h071	2- - 4	2: 0:	2: : h	24ah	: M42	dDl
9 n8Eeor Cmb	ha71	6S: 2	6- - :	62S2	61h6	2M2h	dDl
u r noEb cmb	1: S71	hh6a2	1S264-	1S14a0	1S1201	1M40	dDl
u r noEb cmb	1: S72	- 1: 2S	- Sh- 2	- 2S12	- 14aa	1M02	dDl
u cdkr 8	6S72	0a42	066h	06: 2	0021	1M6	dDl
NGhl DGhpml	- 172	41- 4	4: 06	4- : 1	4- : 4	: M80	dDl
NnTwl cmb	- h72	2022- -	20aah2	2a2400	200a6a	1M40	dDl
. Ghocmb	1S- 71	6a: h42-	6h21: S2	6h- 26h6	6hS4: 41	SM0	dDl
. Ghocmb	1S- 72	- 1- 1- : 0	- 1- 424:	- 116210	- 12020-	SM1	dDl
l dwCocmb	4: 71	4- h1: - 1	4444: 4S	4- hhh: 2	4412SSa	SM0:	dDl
l dwCocmb	4: 72	14SS2a	144SS:	14: 2a0	14- 1S0	1M12	dDl
l r 8 Ccmb	a271	1SS	h1	116	1S2	12M0	dDl
l r 8 Ccmb	0072	1S-	11S	h0	1S-	6M4:	dDl
l r 8 Ccmb	0a72	0S	00	h1	0h	1- M4a	dDl
l c&dnC	2a71	1S6h11Sh	1Shaa262	1Sh46122	1Sa0: 164	1M4a	dDl
l c&vr p	1S071	4160	- h10	4- Sh	41- 1	4M4S	dDl
l c&vr p	1Sh71	- h: h	4- : 1	41Sh	414S	4M0a	dDl
l nocmb	2- 72	: : - h0	: 4h12	: ah01	: 6420	- M4-	dDl
l TpnCTcmb	a671	14h444	1: : 6hh	1: 0101	1: 41S4	2M06	dDl
l TpnCTcmb	aa71	1- 120a0	14S160-	142S6: -	1- 0a- 01	4M4a	dDl
l m8mp	- 471	2h- 0: S	2a: 42h	2aa- 61	2ah1aS	1M46	dDl
Ar pecmb	1: h71	h02h: 0-	h6- 1h4a	h66- S64	h604a62	SM12	dDl
Ar pecmb	1: h72	- hS0: 1S	- hS04- 0	4S1: 66h	- h4- : - h	1M4a	dDl
AGw8cmb	2S- 71	21a4	22Sh	210:	21ah	SM0h	dDl
AGw8cmb	2S: 71	4hh-	: Sh-	4hS1	4hh6	1M12	dDl
AcC	11a71	2Sa: S	2Sha-	22S- :	212ah	- M8:	dDl
AcTwCcmb	4071	1S- 4a1	1Sa044	1S062S	1S661:	2M0S	dDl
RpwCcmb	2- a71	: - SS-	: 210:	: - 60-	: 2h: S	1M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- 1	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	- 1h0h	- 1441	- 1a46	- 10: :	SMda	dDl
YTTr peomb	10271	1ShS:	112- S	11S40	11S6S	1M40	dDl
YTTr peomb	10272	: 4hS	: 44S	: 6S1	: : 11	1MMS	dDl
YTTr peomb	10671	a: h:	a42a	0h: -	a- 2:	4M8S	dDl
YTTr peomb	10672	1- ah6	14Sh0	14- - 6	1411S	1M16	dDl
YTTpomb	ah71	12a: S044	120ah62a	12h00: a4	12a026: 2	SM04	dDl
YTTpomb	ah72	1204hah	12h6442	1- 24S02	12ha: S1	1Mdh	dDl
ZdCd	6672	: hS16	: h: - 1	6S104	: h: 04	SMM0	dDl
ZqpdnComb	hS71	2S104	22- 44	2S- : 0	2Sh: a	: M04	dDl
ZqpdnComb	h171	44a4	40S1	: 1Sh	406:	6M06	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tu wb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	2J1J0	2JSJ-	2J10JS	2J12	SM26	dDl
qCTb nCh	12171	- 2SS	- 242	- 6JE	- - 60	0M-	dDl
qpl r Ccl	0J72	116J	11E6	11 S	11 1	1M1	dDl
Bwpcmb	1- J71	16 - 4E	10240J	10S6	10SJS4	1M21	dDl
Bwpcmb	1- 071	2E E-	- SSJJ0	- SSES1	- SS1- 2	SMJ	dDl
Br ph8mb	E71	162E	1006	16E4	16EE	4MJ	dDl
Bdl b mTG	2SE71	664460E	6 J 1 4	6 J61- 2	60 6- - 2	1M1	dDl
Bdl b mTG	2SE72	- 224- - S	- 10JE1	- 220 J	- 2SE- 6E	SMES	dDl
Bpmb cCr	171	J2- 4	J4J1	JE J	JJJ0	6MEJ	dDl
5 wob cmb	1S 71	01	121	E2	E4	26M0S	dDl
5 wob cmb	1S671	4226	4S06	- 26	4S42	JM8S	dDl
5 wob cmb	11171	1JJ6	164	164	1610	- M26	dDl
5 w8lcmb	4- 71	JE- 0E	JE -	JE- S4	JEJS0	SM4E	dDl
5 w8lcmb	4471	E 0240	1S1S JS	1SS- - 41	1SSS40E	1M21	dDl
5 wpenC	1271	2EES 2	- S0 6 6	- S6422-	- S44J0E	1MJ	dDl
5 wpenC	1272	- 02 1	- 0- S6	- 6E E	- 01E2	SM40	dDl
5 G8hpCr	- J71	2S004- 1E	2J1- - 0S6	2012661E	24- 44 1	1- M4	dDl
5 G8hpCr	- J72	21S 1S	21JJ02	22S4- -	21J6SJ	2M4-	dDl
5 Gpmb cmb	J272	1 S6	1 2J2	1 16	1 624	1M0-	dDl
5 new8T	JE72	16- 0-	1J JE	1J J6	16S2E	1M6	dDl
5 nDDr p	6- 72	JE0EE	J 6E	JE1S6	JE2S1	SME4	dDl
&hl Dpnl cmb	1J671	4ES41	4ES 2	4E1E1	4E1SJ	SM16	dDl
&hl Dpnl cmb	1J672	2S462	1EJ-	2S22E	2SS06	2MIE	dDl
Fpecmb	16471	- - E20	- 4 - S	- 4 S	- 4J46	1MJ	dDl
Fpecmb	16472	1- J60	14111	1- EE4	1- E1	2M86	dDl
Hwon8Ccmb	16S71	42J20	42- 6S	4- S4J	42644	SM4	dDl
Hwon8Ccmb	16S72	2S- S2	1EE12	2S1EE	2S1-	1M8S	dDl
y n8b cmb	16J71	E- - 2 4S	E- J- 226	E4J2602	E- 0EJ0E	SM0	dDl
y n8b cmb	16J72	416S6SS	4SS1JSJ	411ES21	4SE- 0SE	2M82	dDl
tCocmb	11J71	60EJJ4J	6EJ62J	6 0 160	6 066J0	1M10	dDl
tCocmb	11J72	E0E E-	E- 62- S	E4E- - 4	EJJ1J2	2MJ	dDl
tpnC	J472	J- JS6	4112E	- JES6	4- J1-	1M80	dDl
tpnC	J672	16- - 044-	16- 06614	164- JS4	16- - S- J	SMS	dDl
tpnC	J072	- EEJ1	- J0 6	- E6S0	- 44	SM0S	dDl
KphDTnC	- 71	- S2	- SJ	2E4	- SS	1ME0	dDl
Lr wo	2S671	41E- 1-	42426S	41E41	42SEE0	SM00	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tuwb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :uwb r :a	SJ6q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 rwC	5 NI . l &	RCdT
Lr wo	2S071	- 40S- 1	- J6SJ2	- J12SJ	- J142E	1M2	dDl
Lr wo	2S 71	164S224	1604- - 6	16JSJ0	16JJS46	1M36	dDl
LdTGmb	671	241E2EE	2404262	2J4JS4-	240EJ- J	2M4	dDl
9 wgCr l mb	2472	1J6SS6	1J 4JJ	1J0SJ0	1J0102	SM0	dDl
9 wCgwCr l r	JJ72	- J1S1	- 4E 2J	- 4ES2J	- 4EEJ6	SM2E	dDl
9 n8heor Cmb	E471	01J2	0200	6 J	01SJ	2M2	dDl
9 n8heor Cmb	EJ71	- 6J1	- 2E2	- S- 4	- - 26	EM2	dDl
9 n8heor Cmb	E671	464-	4J- 4	46S1	4JE-	1M1E	dDl
9 n8heor Cmb	E071	22E2	21JS	21JE	22SS	- M61	dDl
9 n8heor Cmb	E 71	J6- J	J- J1	J26	J41	- MJ	dDl
ur nohb cmb	1JS71	1E4	E1121	EE26	E040	1M64	dDl
ur nohb cmb	1JS72	20 JE	20- 61	20201	204E0	1M1J	dDl
ucdkr 8	6S72	J 21	6S4J	J E	JE21	1M42	dDl
NGhl DGhpml	- 172	1ESE	2242	2210	2122	M0J	dDl
NnTwl l mb	- E72	1JESS4	16S14	161- 0-	16S10J	SM04	dDl
. Ghocmb	1S- 71	6 441J6	6 611- J	6 0JE2-	6 6S4SJ	SM4-	dDl
. Ghocmb	1S- 72	- 20S4 0	- 10S 4-	- 2SS61J	- 21- E 2	1M1E	dDl
l dwCocmb	4J71	4- J66J	44S - 0-	44- 101-	44S J -	SM2	dDl
l dwCocmb	4J72	14J- - 2	14- 211	1441S	144210	SM04	dDl
l r 8 Cmb	271	4J	02	J4	J0	24M02	dDl
l r 8 Cmb	0072	E-	1S-	1S0	1S1	6M0	dDl
l r 8 Cmb	0 72		00	0-	0E	EM0E	dDl
l d8dnC	2 71	1S- 441	1S622J2J	1S- 6E01E	1S4J 0	1M6	dDl
l d8vr p	1S071	2660	24SE	2610	2J64	JM4	dDl
l d8vr p	1SE71	2S 4	1 JE	22JE	2S60	EM0S	dDl
l nocmb	2- 72	J2S00	J1JJS	J1 - S	J1 1E	SM1	dDl
l TpmCTcmb	671	62SS	S- 6	J- 2E	6J22	1M0S	dDl
l TpmCTcmb	71	02 - E-	0J- - J	0- 6SS	04S110	1M0S	dDl
l m8mp	- 471	2010ES	20- 6	20244E	2020S	SME	dDl
Ar pecmb	1JE71	E- - EJS	E 414 0	E 24JJ1	E6 - - - S	2M6	dDl
Ar pecmb	1JE72	4S0S - J	- E12E12	- E- - J14	- E0242S	2M16	dDl
AGw8mb	2S- 71	10SS	1J 4	16J	1640	- ME	dDl
AGw8mb	2SJ71	4S06	4S26	4S42	4S4	SM0-	dDl
AdC	11 71	11- 6-	110E0	12J1J	11 E2	4ME	dDl
AdTwCmb	4071	0E1J2	0EJSJ	000EJ	0 10	1M1J	dDl
RpwCmb	2- 71	- 6 6-	- 06ES	- 6 -	- 01- S	1M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	3 - 44671	tCl Tpmb Cr T:u wb r :a	N
5 8r CTI wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	J172	2JEJ0	2J616	2JJ06	2J010	SM1	dDl
YTTr pecmb	10271	2	02	J-	S-	SM0J	dDl
YTTr pecmb	10272	- E0-	414S	- E 4	4S- 2	2M1	dDl
YTTr pecmb	10671	0J11	0- 20	026E	0- 6E	1M01	dDl
YTTr pecmb	10672	1- 41-	12 12	1- 041	1- - 22	- M4	dDl
YTTpcmb	E71	126EJ12-	1- SESSE	12E441- 1	12ESE0 4	1MJ	dDl
YTTpcmb	E72	1- 22 4J	12 E2SJ	1- S66EE	1- S62JS	1M2E	dDl
ZdCd	6672	- 6J10	- 02J2	- 6SEE	- 662-	1MIE	dDl
ZqpdnCcmb	ES71	1- 6ES	14141	1- 4J0	1- 06-	2M-	dDl
ZqpdnCcmb	E171	2E10	- SJE	- 1- 4	- S- 0	- M62	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 2014	4 62u6	4u660S	4 1u S	SR	Qt I
d. iqe C. E	12171	222J	2SSS	24- 4	222S	R00	Qt I
dIl p. qO	0J72	10SJ	16- -	162S	16J-	2R00	Qt I
Bwldpe	1- J71	- S4S64	- 22206	- 14- 1S	- 1- JJS	2R 1	Qt I
Bwldpe	1- 071	J- S012	JJJJ- -	JJ- Ju1	J466Su	2R12	Qt I
BplE8dpe	71	- SJ0	- 102	- S01	- 1SS	2RS-	Qt I
Bdqe biG	2S 71	6u6 JS	0SJ 04u	6 4- 011	6 J0uS-	1R u	Qt I
Bdqe biG	2S 72	- 1u J-	- 2J 10	- 1S1- JS	- 1u- - J6	2R4u	Qt I
BIQe q p	u171	J1S1	J46u	J- S1	J2 S	- R40	Qt I
9 wne dpe	1Su71	1- -	1- -	1- -	1- -	SRSS	Qt I
9 wne dpe	1S671	4- 42	4SJ	4SJ1	41J1	4RSS	Qt I
9 wne dpe	11171	1J 1	1- 0J	1J2u	14 u	0R41	Qt I
9 w8Qdpe	4- 71	1 SJ4S	1 2J60	1 - Suu	1 2S6J	SR0S	Qt I
9 w8Qdpe	4471	- 2u 162	- - S2- S6	- - 2- -	- - SJ1- 6	SR1-	Qt I
9 wIr C.	1271	- 4- u0u-	- 4 - S46	- 641uu0	- J24J02	2R u	Qt I
9 wIr C.	1272	44242	4- J S	44 11	4424u	1R4	Qt I
9 G8Clq p	- J71	2Su60224	24626JS2	26021024	24S01u10	12R 2	Qt I
9 G8Clq p	- J72	2S Ju4	21SS	21J1 2	21162J	1R46	Qt I
9 GlQe dpe	J272	2JS4	24 22	2J- u	2J12S	SR 6	Qt I
9 Qr w8	J 72	- 2166	- S- 22	- S 0	- 1162	2R	Qt I
9 Qt t pI	6- 72	0- 1 0	0- - 1J	04S- 2	0- J1J	SR61	Qt I
TEI t IQl dpe	1J671	6 4 1	6uuS-	6 140	6 140	SR1S	Qt I
TEI t IQl dpe	1J672	2u- 20	2u4- 0	2 24J	2u60S	1R0J	Qt I
UIr dpe	16471	4 - S	4 0S	J12Su	JS162	1R 2	Qt I
UIr dpe	16472	2S4 2	2S2J2	2S16J	2S- S-	SRu-	Qt I
HwnC8q dpe	16S71	J0 6S	6S 6J	6S1 4	J 0S0	2R61	Qt I
HwnC8q dpe	16S72	2uu41	20	2u26S	2u- 60	1R12	Qt I
h C8e dpe	16J71	u 0- 0	644222	02S2	0J- 60	1R-	Qt I
h C8e dpe	16J72	41J4102	4S u- - -	4S11J- J	4SuuS1-	1R06	Qt I
&ndpe	11J71	6 611J1	0104u- 6	0S2u- Ju	0SJ40u2	1R1J	Qt I
&ndpe	11J72	62J00	60- - 2	42- 42	J0410	1R	Qt I
&C.	J472	10u4S06	1uSSu11	1062- - 4	10u24S0	1RSu	Qt I
&C.	J672	- 266 u- -	- 1uS4214	- 24 S41S	- 2- 214u6	1R41	Qt I
&C.	J072	00SuuJ	04uJ- 6	00S246	06- 222	1R60	Qt I
KIEt iC.	u- 71	- 2J	- 42	2 4	- 2S	0R01	Qt I
Lpwn	2S671	- 62J14	- 0J102	- 6 u 1	- 6 1 2	1R02	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMt8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	2 S- 6	- S66u-	- S- u6-	- S- 1 4	1R2u	OI
Lpwn	2Su71	142SJ20	144426u	14- 0uJ-	14- 4216	SRu6	OI
LqiGqpe	671	2J16 46	2J6u- 1S	2JS- 46	2J2 0- 4	1R J	OI
y wg. pl qpe	2472	61uJ 2	61- 0	6S 416	61- - 6	SR0J	OI
y w. gw. pl p	JJ72	622JSS	62SJ- 0	62J04u	622 2	SR42	OI
y C8Er np. be	471	12Ju	126-	124 u	12J0J	SR10	OI
y C8Er np. be	J71	- 610	4S- 4	- J	- u0S	JR04	OI
y C8Er np. be	671	J4uJ	611u	J uJ	Ju6-	JR0S	OI
y C8Er np. be	071	2010	22- 4	2J0J	2JS	R 1	OI
y C8Er np. be	u71	626u	6S20	626S	61uJ	2R22	OI
mpOnEe qpe	1JS71	12- 06u	12402u	124S42	12410	SR4S	OI
mpOnEe qpe	1JS72	- 0646	- uS61	- 06-	- 00u2	SR64	OI
mqOkp8	6S72	14- u1	1- 64S	14S 0	14S-	2R66	OI
NGOI t GOIbI	- 172	- S42	- S10	2 42	- SSS	1R0-	OI
NOiwI l qpe	- 72	2 16- 4	2u01S6	2u4SSu	2u0Ju-	1R -	OI
F GOnqpe	1S- 71	0S 622S	0Su22J-	0SJ2- S1	0S06 2J	SR 2	OI
F GOnqpe	1S- 72	- 2J4 0	- 1 uSSu	- 12- 1u-	- 1 2S62	2RS0	OI
DOw. nqpe	4J71	46J42- -	462 2S	4J0J11	461 J2S	SRu	OI
DOw. nqpe	4J72	140600	14J 2-	14S201	144624	2R6u	OI
Dp8p. qpe	u271	1S0	11	1 2	14S	- - RSu	OI
Dp8p. qpe	0072	1JS	1S0	14S	1- 2	10R16	OI
Dp8p. qpe	0u72	1	112	6	1SS	11RS1	OI
Dq8qOC.	2u71	11SS4u	1S60SS- u	11100S6u	1S JS66u	2R J	OI
Dq8vpI	1S071	1410	10Su	160J	16SS	Ru	OI
Dq8vpI	1S 71	14- -	1JJu	1JJS	1J14	4R62	OI
DOnqpe	2- 72	J6- 11	JJ 66	J4J0u	JJ61u	1R6J	OI
DiIC. iqpe	u671	1026S	106uS2	102 S2	1041S4	1R 4	OI
DiIC. iqpe	uu71	1J 4S- 0	1J 4 -	16126J2	16SSJ4-	SR66	OI
Db8bI	- 471	2uS- 0J	2u- 6S-	2u141S	2u10 6	SRu	OI
cpIr qpe	1J 71	Su2u0	1SS0u60u	u614u0	4 4u4	1R1J	OI
cpIr qpe	1J 72	4S S062	416- SSu	- u06 62	4S4- J00	- R6u	OI
cGw8qpe	2S- 71	2242	22S	2J0J	2- 42	uR66	OI
cGw8qpe	2SJ71	JuS2	J- 26	J01S	J61-	4R4	OI
cq	11u71	1J04-	166S2	161- J	1616S	2R66	OI
cqiw. qpe	4071	002u-	0u4J0	004J1	000- S	SRu2	OI
5 Iw. qpe	2- u71	01SJS	04646	0- 4uS	0- SJu	2R31	OI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	J172	- JSSS	- 4- 4J	- 4 46	- 406-	1R5J	Ol l
Yiiplr dpe	10271	120- 2	1- Su2	1- J 1	1- 1- J	- R2	Ol l
Yiiplr dpe	10272	6- 0	6224	6- 0	6- 2u	1R42	Ol l
Yiiplr dpe	10671	- 2S	1SS0	J12	6- 0	4R5	Ol l
Yiiplr dpe	10672	144 2	1J1u0	14u4u	14u42	2R4	Ol l
Yiildpe	u 71	1- 4 S1JJ	1- 4 4 Ju	1- - 062J	1- 4J- 0 1	SR1S	Ol l
Yiildpe	u 72	1- - - 644	142642	12 6040	1- J220-	4R4	Ol l
Zq O	6672	J 16	J 4J1	6SS4S	J uS2	SR12	Ol l
ZdOC. dpe	S71	20 2	2uJuS	- SS16	2uu42	- R0S	Ol l
ZdOC. dpe	171	6420	61- J	6400	6- 46	2R1	Ol l

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	- 4620N	- 4644h	- 41620	- 440N:	SM0h	dDw
qCTb nCE	12171	4210	4NSh	4: Sh	4: 12	6M6	dDw
qpwr Ccd	0: 72	14h4	14hh	14: 0	14N4	1M:	dDw
Bspcmb	1- : 71	- 2hh6N	- - 264:	- - 4hS1	- - 2: S:	SM04	dDw
Bspcmb	1- 071	: h1S10	: h6: N:	: h42- 4	: h- h4:	SM40	dDw
Br pEPPmb	h71	2S: 6	1h0S	2120	2S: 1	- MN:	dDw
Bcwb mTG	2Sh71	6002N- -	6NN62: S	6hSh411	6N: 616:	1M80	dDw
Bcwb mTG	2Sh72	- - 1Sh22	- - 20S26	- - 14026	- - 10: : N	SM2:	dDw
Bpmb cCr	N171	: S6N	: 21N	: : 06	: 2N0	4M4	dDw
5 sob cmb	1SN71	146	1: S	11-	1- 6	1: M1S	dDw
5 sob cmb	1S671	41Sh	42S1	42: 1	41N0	1M02	dDw
5 sob cmb	11171	116-	1ShS	1146	11- -	- M0	dDw
5 sPlcmb	4- 71	2h24: S	2h66- 4	2h- 2Nh	2h4124	SM0:	dDw
5 sPlcmb	4471	4h44h1-	: S- - : NN	4hN11: 6	4hN6: : 2	SMNh	dDw
5 spenC	1271	20S464N	20- - N04	20- S1- 2	2022NN:	SMN	dDw
5 spenC	1272	- - : 22	- - 014	- - 622	- - 62S	SM2h	dDw
5 GPmpcCr	- : 71	21: 4h4h1	2: 42h444	20264- h-	24040006	11M0h	dDw
5 GPmpcCr	- : 72	21416:	21NhN2	22- 64S	21Nh2h	2M6	dDw
5 Gpmb cmb	: 272	: 6S6-	: 6NN6	: 6N1h	: 6: Nh	SMN1	dDw
5 nesPT	: h72	- 2: S4	- 2N4:	- 1hS6	- 241N	1M40	dDw
5 nDDr p	6- 72	0- : 1-	021hh	02S0h	02: h0	1M1S	dDw
&EwDpnwcmb	1: 671	: 6S26	: 4462	: 46: 4	: : S40	1M:	dDw
&EwDpnwcmb	1: 672	2- 1: -	22Nh6	22606	22hSh	1M84	dDw
Fpecmb	16471	- hh00	- hhh4	- N016	- h: 62	1MN:	dDw
Fpecmb	16472	164- 4	16- S-	1622S	16- 1h	SM06	dDw
HsonPCcmb	16S71	4: h- N	40- 00	464: 0	46: h1	1M6	dDw
HsonPCcmb	16S72	221N2	22: S2	2- SSS	22: 61	1MN-	dDw
y nPb cmb	16: 71	h6hS: hh	hNh21- 4	h0N2S: 1	h0NN262	1M8-	dDw
y nPb cmb	16: 72	42h60h2	41: 1202	422: 2- -	42244- 2	1M02	dDw
tCocmb	11: 71	01: 0406	014: 1S4	016216h	01: 4h10	SM12	dDw
tCocmb	11: 72	hhN4h-	h066hS	hh2S1:	hNhS66	1M1-	dDw
tpnC	: 472	1: 20- N1	1: 220: -	1: S1N0S	1: 10- - :	SM1S	dDw
tpnC	: 672	202h04S-	201- hN1h	26h00640	201- N2hS	SMh	dDw
tpnC	: 072	640: : 1	6- 00- h	64- hN0	64- Sh2	SM00	dDw
KpEDTnC	N- 71	2h2	2hS	- 10	- SS	: M80	dDw
Lr so	2S671	0001N6	00N16N	06S0N:	002S46	1M26	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU- 4	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP u sb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	62S: 0S	620h2:	611NN2	62S126	1M1S	dDw
Lr so	2SN71	- Sh0S21	- Sh2640	- S460NS	- S0NN16	SM1S	dDw
LdTGmb	671	24: - S- S	2: 00hN1	2: 0SN4:	2: - - h: 2	2M00	dDw
9 sgOr wcmb	2472	462N- S	461hS0	46S46S	4610- -	SM26	dDw
9 sOgsOr wr	: : 72	10S: hh0	160S- h2	1642- - 6	1602hSN	1M11	dDw
9 nPEeor Omb	h471	12h0-	120hS	12N4N	12N0S	SM0-	dDw
9 nPEeor Omb	h: 71	0411	6: 6N	01- :	0S- N	6M1S	dDw
9 nPEeor Omb	h671	h20N	h10N	Nh0N	h14:	1M00	dDw
9 nPEeor Omb	h071	4- 60	42: h	46Sh	4412	4M36	dDw
9 nPEeor Omb	hN71	11h- h	110- h	121h0	11h: N	1M12	dDw
u r noEb omb	1: S71	hN- 1h	h0S06	h604N	h0- N1	SMN:	dDw
u r noEb omb	1: S72	- S1h4	- S- N:	2h: 66	- SS4N	1M4-	dDw
u dkr P	6S72	1- 6SS	1- N- 4	1- N44	1- 0: h	1M3S	dDw
8 GhwDGhpmw	- 172	16- -	10h2	16SS	160:	6M11	dDw
8 nTswwcmb	- h72	16hS66	1602h6	1606N4	16NS1:	SM1:	dDw
. Ghocmb	1S- 71	020- N- S	0Sh2h10	021014-	01h46- S	1M2h	dDw
. Ghocmb	1S- 72	- 2h0NSN	- 2Nh4S0	- 2460SS	- 200h02	SMN4	dDw
l ds Coomb	4: 71	40S60: 1	40S1: 44	4: NS466	4662h2S	1M-	dDw
l ds Coomb	4: 72	14N0h:	14h10:	14N- 1S	14N06S	SM2h	dDw
l r P Comb	N271	N6	66	1S:	N6	22MN	dDw
l r P Comb	0072	12S	N0	12-	11S	1NM4-	dDw
l r P Comb	0N72	00	N1	0N	0h	2M6:	dDw
l dPdnC	2N71	11SN: 100	111162S-	11146161	1111: N40	SM20	dDw
l dPr p	1S071	16SN	1h: h	1N60	1N11	1SM32	dDw
l dPr p	1Sh71	16: N	1: 2:	16h2	162:	: M4-	dDw
l noomb	2- 72	06: 4-	0: : 12	0- 02S	0: 2: N	1M1S	dDw
l TpmCTomb	N671	2SS- hN	2SS400	1hhNh2	2SS2: :	SM16	dDw
l TpmCTomb	NN71	1N- 6S- 2	1N6: 2- 0	1N- 12: -	1N44104	1M3S	dDw
l mPmp	- 471	204S- S	2N1S0h	2N462S	20hh1S	1M1-	dDw
Ar peomb	1: h71	hh0: 61-	1SSS: 6h:	1SS6- : 0-	1SS14h6S	SM4:	dDw
Ar peomb	1: h72	41- N0h2	411N2SN	410hh0h	414: 66S	SM06	dDw
AGs PRmb	2S- 71	1060	162:	1642	160N	4M02	dDw
AGs PRmb	2S: 71	4160	46S1	4S- 4	426N	6M1:	dDw
AdC	11N71	2SS0-	1hh1:	2S- : N	2S11:	1M11	dDw
AdS Comb	4071	0N: 1:	0N4- 2	00644	0N1h0	SM01	dDw
RpsComb	2- N71	4S- 6:	4S: - 2	4S26:	4S- N0	SM-	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP u sb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	- S2S2	- SN- 0	2h: 61	- S2SS	2M11	dDw
YTTr peomb	10271	11240	11N14	1Sh6-	11- 41	- NM2	dDw
YTTr peomb	10272	: 21N	: 62h	: 246	: - 64	4M2N	dDw
YTTr peomb	10671	NS11	N4N6	0h: -	N1: S	- MMh	dDw
YTTr peomb	10672	14- : 2	1422:	14- h1	14- 2-	SM61	dDw
YTTpomb	Nh71	1- 4401- S	1- - 1224N	1- - 46112	1- - 6N4h0	SM12	dDw
YTTpomb	Nh72	14116Nh	144- h2S	1414Sh6	142- 2- :	1M26	dDw
ZdCd	6672	- 06- 0	- 0Sh:	- 6024	- 01: 2	1M4-	dDw
ZqpdnComb	hS71	2- 021	2: 2- 2	24: 64	24: S:	- MSh	dDw
ZqpdnComb	h171	: - : 1	: - 06	: N1N	: : 1:	4M06	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP u sb r J	S: . qF UMPb

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb oCcmb	2072	1SS2. 01	. N: - 1.	. . N6. 1	. . : 66S	SR 2	dDw
qCTb nCE	12171	22. 6: S	2- N064	2- N206	2- : : 6-	2P1N	dDw
qpwr Ccd	0: 72	1S1. 44	1SS2S6	1S1621	1S12: 0	SR 1	dDw
Bspcmb	1- : 71	22. - . . N	2- 14N10	22N6S. 2	22. N- S2	SP6:	dDw
Bspcmb	1- 071	4S2: S10	4SS64: 6	41S: S60	4S4: : 1-	1R S	dDw
Br pEPPmb	. 71	: 0: 4	: . N.	: 010	: N2S	2R 4	dDw
Bcvb mTG	2S. 71	0- - : 2NN	0S. : 26S	0S- N1. S	01: 6246	2P2S	dDw
Bcvb mTG	2S. 72	- 220: S-	- - - 266-	2406- 22	- S1216-	1: R S	dDw
Bpmb cCr	N171	4- S1	42S1	42N4	4262	1P26	dDw
9 sob cmb	1SN71	11. 6	142.	12. 2	1- S6	NR N	dDw
9 sob cmb	1S671	6- - :	: 06N	: N6S	: . NN	: PSN	dDw
9 sob cmb	11171	14001	14. S6	1: S16	14N. N	SPN2	dDw
9 sPdcmb	4- 71	642- 6N	6: 2. - 0	644- 06	646: 61	SPN0	dDw
9 sPdcmb	4471	1SN: N4N4	1S. - : 4N2	1SN2060S	1SN0- N0.	SR 1	dDw
9 spenC	1271	242604S	242. 2. 4	241- SS1	242- S12	SR 6	dDw
9 spenC	1272	2. - 1-	2. 21-	2N02N	2. SN:	1PS0	dDw
9 GPmpcCr	- : 71	21N61- S2	2: : : S: : 0	20010211	2: S4- S2-	11PN2	dDw
9 GPmpcCr	- : 72	2140: .	21. 2- 1	22: 14N	21. 01-	2R 0	dDw
9 Gpmb cmb	: 272	61006	6- S. 2	6- : . 1	62N1.	1P4.	dDw
9 nesPT	: . 72	6: NNN	604N6	602. 1	66NNN	1R S	dDw
9 nDDr p	6- 72	2. 124-	2. SS44	2. 24- .	2. 1242	SP41	dDw
&EwDpnwcmb	1: 671	1216- :	12N- S4	1261: 1	12: - 6-	2P01	dDw
&EwDpnwcmb	1: 672	: 12N:	: 1646	: - S62	: 1. . 0	1PN1	dDw
Upecmb	16471	60. . 2	6. N06	6. 042	6. 2S-	1R 2	dDw
Upecmb	16472	20S04	20- N:	2N- 14	20: . 1	2R 4	dDw
HsonPCcmb	16S71	. 4: 20	. 6. . -	. 6: S0	. 6SS.	1R 6	dDw
HsonPCcmb	16S72	462- -	4: 0- 2	46S06	46S14	SR 6	dDw
h nPb cmb	16: 71	1S: 124- 0	. . 6: 62:	. N2- : N1	1S1SS: 4N	- P6S	dDw
h nPb cmb	16: 72	4S64404	416. 1- 4	- 2S166:	- N110: N	1- R -	dDw
tCocmb	11: 71	0: 4N2. N	0- - 4: 22	011SN62	0- - 1220	2R N	dDw
tCocmb	11: 72	. 622S6	. 6. . . :	0- 66- 0	NN. 61-	14R S	dDw
tpnC	: 472	20N- 4N:	2041. . -	2N2412N	20N- 2S2	1P4N	dDw
tpnC	: 672	: SS04: 41	: S206S2N	: S4S: 241	: S2: 1. - 0	SR -	dDw
tpnC	: 072	11. - 1. 4	11. N: 6.	12212. 4	12S4- : 2	1P24	dDw
KpEDTnC	N- 71	- 4.	- 0:	- - 4	- : 2	: R 2	dDw
Lr so	2S671	- . 4: 6: N	4S2: SS:	4144N1S	4S- N4. 1	2P4N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DPP t& J	y h SM- :	&dPmTmC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdPP usb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S071	- - N1: N1	- - 0: 046	- 4: . S: 4	- 4S: 46S	1R 0	dDw
Lr so	2SN71	1: . S260-	16S- 6SN4	16- S216:	16SNS- S0	1R26	dDw
LdTGmb	671	26. 0S6.	2626: 1N	26- : S. 4	26: 2N. 4	1R4:	dDw
y sgOr wmb	2472	1- . S0. 2	1- . - - 10	1- . 11- 2	1- . 1040	SR1S	dDw
y sOgsOr wr	: : 72	: S2662N	: S001N4	: 1- . . N4	: SN126:	1R12	dDw
y nPEeor Omb	. 471	1N- 12S	1. S1- N	1N0: S-	1N6. 2S	1R S	dDw
y nPEeor Omb	. : 71	16: 1N6	10- S- 0	10- - S0	10S: 1S	2R01	dDw
y nPEeor Omb	. 671	1. : - S4	1. N- 02	2S- . 46	1. . 2S0	2R2S	dDw
y nPEeor Omb	. 071	1S: . 0.	1S6. 01	1S6- 4.	1S64- -	SR40	dDw
y nPEeor Omb	. N71	266100	204. - 6	20026S	2020. 1	2R14	dDw
u r noEb omb	1: S71	21. 041	22. : 4S	2- 1. . :	220S. 2	2RN6	dDw
u r noEb omb	1: S72	6N410	6N641	6. 0. 4	6N. : 1	1RS0	dDw
u dkr P	6S72	20SS6	2666N	20- . S	20S21	1R 4	dDw
8 GhwDGhpmw	- 172	1460:	14N. 1	1: 1: N	14. SN	1R62	dDw
8 nTswwmb	- . 72	6N006-	60N- 6-	6N40N1	6N- 6- 6	SR0S	dDw
F Ghomb	1S- 71	0: 61: 11	0116006	6N6- - . 4	01NS: 6S	4R 2	dDw
F Ghomb	1S- 72	- 2S46. -	- 1. 0. - 0	24N126N	2. 61- SS	14RS4	dDw
I ds Comb	4: 71	: S- N602	40S2246	4022140	4N21S21	- R 2	dDw
I ds Comb	4: 72	1: S: 1S	14N: 2-	1142: N	1- 0064	14R0.	dDw
I r PP Comb	N271	0:	: 2	1: :	. 4	: 0R21	dDw
I r PP Comb	0072	21S	2- S	210	21.	4R6:	dDw
I r PP Comb	0N72	160	10.	1. .	1N2	NR S	dDw
I dPdnC	2N71	112S: 64N	114S4. : .	112NS1- -	112. 6. 1-	SRN.	dDw
I dPr p	1S071	N. . : 2	. 2. S4	. 11: -	. 1- - 6	1R6-	dDw
I dPr p	1S. 71	N. S02	NN4- 4	NN426	NN644	SR42	dDw
I nomb	2- 72	2: 0004	2: 6. 16	261S: N	2: N: N-	SRN:	dDw
I TpmCTomb	N671	N2- 4- 2	N6S16S	N- 0- : N	N4S- 10	2R21	dDw
I TpmCTomb	NN71	0- 66202	0: 0: NSS	040. 6- .	040- . S4	1R4S	dDw
I mPPmp	- 471	2. . 4S4	- S2: 4:	- S1- 1.	- S1SN.	SR-	dDw
Ar pe omb	1: . 71	1S062401	1S1S0164	. . - 2: 66	1S2604SS	4R26	dDw
Ar pe omb	1: . 72	4S60. : 1	4S1N- 0S	- 124N2.	- 0- 0S: S	14R2S	dDw
AGs RPmb	2S- 71	21: 20	2S0. 2	22S0N	2146:	- RSS	dDw
AGs RPmb	2S: 71	4. 41.	: 1- - 6	: 244S	: 1S6:	2R.	dDw
AdC	11N71	11S1-	11002	110: :	11: 1-	- R0	dDw
AdS Comb	4071	- 0S210	- NS4- 2	- 004N1	- 06S4-	1R4S	dDw
5 ps Comb	2- N71	2. 1NS6	- S6S02	- SS: : N	2. . 40.	2R4S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DPP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdPP u sb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	: 172	4110: N	410- 62	41N- : -	41: N24	SRN6	dDw
YTTr pe omb	10271	1: 01S	16NN6	1: N- :	16144	4RSS	dDw
YTTr pe omb	10272	061.	061.	0640	062N	SR21	dDw
YTTr pe omb	10671	12S. N	1212-	1244S	1222S	1R 6	dDw
YTTr pe omb	10672	1: . 6S	1: . 1:	1- 02.	1: 2S2	NR .	dDw
YTTpomb	N. 71	14NS- 2S-	1- . 0. : N6	14S2N- - 4	1420S- 04	- R24	dDw
YTTpomb	N. 72	1- 66- 41	144N: 10	1S6: 2S0	12. - - : :	1: R6S	dDw
ZdCd	6672	: 2N- . .	: - - 2- 4	: - . N- :	: - - N2-	1RSN	dDw
ZqpdnComb	. S71	24S- 14	24. S: .	24: - . .	244. 24	1R0.	dDw
ZqpdnComb	. 171	: 6140	: 6S64	: : N6-	: 6S2:	SR26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d &be q dpe	2072	1S1- 614	1SS2a- -	aa01- 4	1SS4: 6S	SRu-	Ol l
d . iqe C. E	12171	22: - 62	220- u6	2- 2aS-	22u: : S	1R01	Ol l
dll p. qO	0: 72	1S- 02:	1S4: 02	1S- 1uS	1S- u26	SR6u	Ol l
Bwldpe	1- : 71	u02a61	uu2S61	aS- S: 1	uu6S24	1R04	Ol l
Bwldpe	1- 071	16- 66: -	16: 1- 6u	16642S-	16: S041	SRu4	Ol l
BplE&&pe	a71	: 6Sa	: 610	: : S2	: : 06	1R1:	Ol l
Bdqe biG	2Sa71	6: : S6- S	04u- 162	6a124aa	6au2Sa0	6R0-	Ol l
Bdqe biG	2Sa72	- 10S01:	- 216: 44	- 210: uu	- 2S1616	SRu4	Ol l
BlCe q p	u171	4206	4- 10	4- 60	4- 2S	1RS6	Ol l
9 wne dpe	1Su71	14- -	12: 4	1- 0:	1- : 4	6R0:	Ol l
9 wne dpe	1S671	: - 6u	62a-	: u: 1	: u- 0	0Ra-	Ol l
9 wne dpe	11171	14021	1: 264	14- 1S	1406:	- R24	Ol l
9 w&Odpe	4- 71	0- 2211	0- 00u6	0- 2- 0S	0- 412-	SR4-	Ol l
9 w&Odpe	4471	122- S2: 6	12- 6uua6	12: - 0001	12- 0ua04	1R24	Ol l
9 wlr C.	1271	2- 41S- 0	2- : 0a24	2- 2u022	2- 42: 61	SR6-	Ol l
9 wlr C.	1272	2u- 0u	2uSS2	2u- 61	2u240	SR0:	Ol l
9 G&Clq p	- : 71	21a- 044-	2: 16aa2a	201a41S2	240601: u	1SR01	Ol l
9 G&Clq p	- : 72	2S040a	21S2S1	21u2Sa	211a6-	2R6-	Ol l
9 GlCe dpe	: 272	4aa6-	4a41u	4a26:	4a: 4a	SR04	Ol l
9 Or w&	: a72	6- - 1S	6- S2:	6- 1aa	6- 10u	SR2-	Ol l
9 Ot t pl	6- 72	- 61S: a	- : : S44	- 6S00:	- : ua6S	SRa:	Ol l
TEl t lCl dpe	1: 671	11: 24:	112: aS	114u- :	11422-	1R2:	Ol l
TEl t lCl dpe	1: 672	46u- 2	40062	46: 10	40S- 0	1Ru	Ol l
Ulr dpe	16471	6S- a0	6S- S4	61- - :	6S60u	SRa4	Ol l
Ulr dpe	16472	24: S6	2- auu	24- : 6	242u-	1R1S	Ol l
HwnC&q dpe	16S71	u4S: u	u62- S	u6: u2	u: 62-	1R6S	Ol l
HwnC&q dpe	16S72	- a606	41S2S	4Sa6-	4S: : -	1Ru0	Ol l
h C&e dpe	16: 71	a1ua242	1Su10u: S	au00u62	aa616: 1	uR21	Ol l
h C&e dpe	16: 72	4212: 4-	410u- 1:	412a016	410- : 2:	1RSS	Ol l
& ndpe	11: 71	66SaS- 1	0u: 26u2	0S: 0a1a	010- 211	uR0u	Ol l
& ndpe	11: 72	a4a- u1	a- 61- -	a- 02S6	a4SaS6	SR0u	Ol l
&C.	: 472	26- 1S2u	26- 26a-	2: 00114	261- 612	1R21	Ol l
&C.	: 672	46a: 60a0	466122: u	461a04: 0	46: uuu- 0	SRu2	Ol l
&C.	: 072	112- 66u	11S066:	111S- - :	111- uua	SR00	Ol l
KIEt iC.	u- 71	- - 6	- - S	- - 1	- - 2	SRaa	Ol l
Lpwn	2S671	- 41a- 42	- - 06u00	- 41u: 4u	- 4S4a22	SR01	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	&l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T&piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u6: a16	2ua: 0S-	2aS2Suu	2uu0aS2	SR60	Ol l
Lpwn	2Su71	1- 4- 0146	1- 44: 0a-	1- 6S- 4aS	1- 4a: 400	SR6a	Ol l
LqiGdpe	671	24- - a16	20aSaa1	2: 400a0	2: aSaS2	0RS4	Ol l
y wg. pl dpe	2472	116141a	11: 0Sa0	11uu: S6	116aSS0	1R46	Ol l
y w. gw. pl p	: : 72	: 1a21- 6	: Sa040S	: S040: 1	: 1214: 2	1R22	Ol l
y O&Er np. be	a471	1u6u0u	1uau26	1uaS4S	1uu: u1	SRu1	Ol l
y O&Er np. be	a: 71	1u4: Sa	1u0- 6-	1u- 644	1u: 102	1RS:	Ol l
y O&Er np. be	a671	2126- u	21- u10	214626	21- 6a4	SR40	Ol l
y O&Er np. be	a071	114- 4:	11u6au	11- : : 6	11: : - -	2R4S	Ol l
y O&Er np. be	au71	2a6- aa	- S: 4au	2a01: :	2aa6u4	1R6u	Ol l
mpOnEe dpe	1: S71	1aaSu:	2S12- 2	2S410-	2S14a0	1R20	Ol l
mpOnEe dpe	1: S72	610a2	6Su: 1	61: 60	614S-	SRuS	Ol l
mqOkp8	6S72	20: S0	26u: a	202u-	20216	1R21	Ol l
NGOl t GOlbl	- 172	12- 14	124: 6	12214	12- 2u	SRaa	Ol l
NOiwl l dpe	- a72	6uuSS2	6a: aaS	6u: - Su	6ua060	SRu1	Ol l
F GOndpe	1S- 71	6: 0Su1u	0: : a: a4	0S1ua42	0S4a0u:	0RS2	Ol l
F GOndpe	1S- 72	- 1a04- S	- 1u461u	- 114: 1a	- 16: : 22	1R41	Ol l
DOw. ndpe	4: 71	440: 6a0	4aa2aua	4: 06a16	46u1u60	: Ru6	Ol l
DOw. ndpe	4: 72	1402S6	140S0:	140010	140- - -	SR2-	Ol l
Dp&p. dpe	u271	11:	1S:	1- :	11u	12Ra1	Ol l
Dp&p. dpe	0072	1uS	16S	1u-	104	0R24	Ol l
Dp&p. dpe	0u72	14u	1u:	141	1: u	14Ra6	Ol l
Dq&qOC.	2u71	1162- 642	11624u2S	116SaS2-	1161a162	SRSu	Ol l
Dq&vpl	1S071	u: 41:	u4a0S	u42S0	u4u64	SR02	Ol l
Dq&vpl	1Sa71	uS1: 1	u2a0:	uS41a	u11u2	1Ra2	Ol l
DOndpe	2- 72	2- 2- uS	2- 142:	2- 1062	2- 1u: 6	SR21	Ol l
DilC. idpe	u671	a: 2S21	a46aS0	a: 06: u	a: 21a:	SR 6	Ol l
DilC. idpe	uu71	u- 6a- u6	u62a- S-	u: S- 0: 0	u: SSu16	1R -	Ol l
Db&bl	- 471	: - 4a24	: - uu66	: 440: S	: - a: 1-	SRa2	Ol l
cplr dpe	1: a71	a: 2- 6S0	1S006: 6S	auu2u6:	1SS61S11	6R41	Ol l
cplr dpe	1: a72	4S4411a	4S: 0600	41Su- 02	4S0SS: 6	SRu-	Ol l
cGw&&pe	2S- 71	10001	10621	101- 0	10: Sa	1Rua	Ol l
cGw&&pe	2S: 71	42- u0	41- 24	4- 44a	42- u0	2R 1	Ol l
cq	11u71	1S4- u	12- 0-	1Sa6-	112: u	uRua	Ol l
cqiw. dpe	4071	- S0u6u	- S4u0-	- S61uu	- S6- 1S	SR4a	Ol l
5 lw. dpe	2- u71	2a: a6S	2ua64u	2a: uu:	2a- u- 1	1R2-	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	: 172	- 642SS	- 66aau	- 6410u	- 6: 12:	SR44	Qtl
Yiiplr dpe	10271	1- 204	142u-	1- uSu	1- 0uu	- R36	Qtl
Yiiplr dpe	10272	646-	60uS	6u: 0	60SS	- R12	Qtl
Yiiplr dpe	10671	1S: uS	1S- - u	1Sa21	1S61-	2R06	Qtl
Yiiplr dpe	10672	14u2S	140u6	1: 6: a	1: Suu	- R2u	Qtl
Yiildpe	ua71	1- S1S- 0a	14u201- -	1- u2- - S6	1- uu6a- a	6R:	Qtl
Yiildpe	ua72	1- - Su6u	1- - 02aa	1- 2S12S	1- 2a42a	SR3:	Qtl
Zq O	6672	: S64a4	: S66u0	4a04: 0	: S- : 46	1R3:	Qtl
Zdl OC. dpe	aS71	22- 1- 1	22- - aS	2- 1604	226S6:	2R1:	Qtl
Zdl OC. dpe	a171	: 16uS	: S64-	: 211:	: 140a	1R40	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Cl ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8iqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
8be qCdpe	2072	6SJS- 4	6SSJS-	Jh- u66	JhhuS1	SM14	dt l
Ciqe nCE	12171	4- S1	4426	4J4-	442-	2M0-	dt l
Il pCqd	0J72	12- S-	12- - 4	12- 6u	12- - J	SM26	dt l
Bwldpe	1- J71	401h41	4uJJ6-	4u- 262	4uS2JJ	1M12	dt l
Bwldpe	1- 071	u- 0J6J	u46424	uJSJJ4	u44u4u	SM0h	dt l
BplE8dpe	h71	24S6	24u0	2J- 4	2406	2M61	dt l
Bdqe biG	2Sh71	6uS0622	6h0hJ- 0	6u222u1	6u6hu1-	1Mh	dt l
Bdqe biG	2Sh72	- - S- uS6	- 2J1110	- 22SJ6J	- 2Ju4h6	1M2h	dt l
Blne qCp	u171	601S	02J2	0200	0SuS	4M-	dt l
5 woe dpe	1Su71	242	242	260	2JS	JM00	dt l
5 woe dpe	1S671	4J4-	4S26	4- S1	42hS	6M8-	dt l
5 woe dpe	11171	2J2-	2- SS	2- - J	2- u6	JM82	dt l
5 w8ldpe	4- 71	- 162Su	- 2- 1uh	- 226JS	- 2S6u2	1M21	dt l
5 w8ldpe	4471	J4Su4u-	JJ1SuJ2	J4J6uJ4	J4Ju0- S	SM14	dt l
5 wlr nC	1271	6Su0- 6h	66SJ66h	6JhS- 44	64200h4	4Mh	dt l
5 wlr nC	1272	u1uJ-	0hh2J	u241J	u1- hu	1M0S	dt l
5 G8nlqCp	- J71	21S0620u	2JS0S- 66	20SSJh- S	24- u41h1	12M4S	dt l
5 G8nlqCp	- J72	2S1h00	2Su- Sh	212S1u	2S04- J	2M4J	dt l
5 Glne dpe	J272	- 660-	- 66S4	- JhJ2	- 641S	1M8h	dt l
5 nr w8	Jh72	40u1-	4h62-	40606	4u- 01	2M2J	dt l
5 nt t pl	6- 72	102S2S	10S62u	10SJ41	101S6-	SM4h	dt l
TEl t Inl dpe	1J671	6h6Ju	0S- 61	60u22	6h2uS	1Mh	dt l
TEl t Inl dpe	1J672	2u614	2uh0u	2uJ04	2u022	SM0u	dt l
Flr dpe	16471	J- 042	JJhh-	J6S44	JJ26S	2Mu	dt l
Flr dpe	16472	2210J	221- 2	21u02	22S6S	SM04	dt l
Hwon8qCdpe	16S71	Jh2J0	62S0h	61h0u	611SJ	2M62	dt l
Hwon8qCdpe	16S72	2u610	2h6uS	2h1J2	2h1JS	1M12	dt l
y n8e dpe	16J71	hhSh11u	1SSS4S61	h0JhJu6	huhSh22	1M2J	dt l
y n8e dpe	16J72	41u- SS0	412004S	4142Sh2	41JSh46	SM8h	dt l
&Codpe	11J71	0S014- 6	02- h- JJ	6h42J- 6	0Su4442	2M1S	dt l
&Codpe	11J72	hJ- 1h0	hJ2102	hJ2- 4S	hJ2J0S	SM86	dt l
&nC	J472	- S2h2- 4	- S- uSu6	- S4J12h	- S- 04u-	SM26	dt l
&nC	J672	JJS21- JJ	J4616u- h	J- h0J01u	J4J- 0h01	SM10	dt l
&nC	J072	1- h- Jh-	14Sh646	1- 611hS	1- uu14-	1M0u	dt l
KIEt inC	u- 71	- 26	- 1S	- 26	- 21	2M12	dt l
Lpwo	2S671	4hhS2S	4h611J	4h14J6	4hJJ- S	SM00	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Cl ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja-2aS4	TwiwUq8p:mwe p:a	S61 . FUM

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
Lpwo	2S071	41- 1S-	41S1hS	4S6Suh	4Sh0h4	SM16	dt l
Lpwo	2Su71	1h2J06h	1h2h06S	1h42- 1-	1h- 2614	SM4J	dt l
LqiGdpe	671	2J24- 22	2JJ4hh0	2661JuJ	2JuS- S1	2M0h	dt l
9 wgCpl dpe	2472	0h1S1h	u1S6u-	uS1661	uS1121	1M2-	dt l
9 wCgwCpl p	JJ72	uS1u01	uS6410	0hh616	uS26- J	SM4-	dt l
9 n8Er opCbe	h471	201S2	204u6	20J61	20- u-	SM1S	dt l
9 n8Er opCbe	hJ71	611S	6SJ1	J406	Ju0h	JM16	dt l
9 n8Er opCbe	h671	1S46-	1S212	1S- 01	1S- 4h	1M22	dt l
9 n8Er opCbe	h071	- - Sh	- JS1	- J42	- 4J1	- M61	dt l
9 n8Er opCbe	hu71	h162	h60h	h4hJ	h44J	2M00	dt l
mpnoEe dpe	1JS71	1161- 2	11JuJ1	11uJhh	116u61	1M2h	dt l
mpnoEe dpe	1JS72	- J- - S	- 4h4h	- J644	- J- Su	SM1h	dt l
mqdkp8	6S72	24uJh	24huJ	24002	24u02	SM4-	dt l
NGnl t GnIbl	- 172	u16h	0061	0J6h	0u- -	- M12	dt l
Nniwl l dpe	- h72	4S604S	410h1-	4S0110	41SJhS	1MJJ	dt l
. Gnodpe	1S- 71	6h0Sh60	0146600	01u464S	01SS061	1M61	dt l
. Gnodpe	1S- 72	- 21hu6u	- 24614S	- 1h2hu4	- 21h664	SMJ-	dt l
DdwCodpe	4J71	46SJuu-	402J- SJ	4010u- u	46u- SSh	1M4-	dt l
DdwCodpe	4J72	140Su2	140166	146h04	140S04	SM80	dt l
Dp8pCdpe	u271	2- 2	1h0	2S0	212	uM4u	dt l
Dp8pCdpe	0072	12-	1- S	h-	116	16M1S	dt l
Dp8pCdpe	0u72	11S	uJ	124	1S6	1uMJu	dt l
Dqqdn C	2u71	1J6Jh2h0	1Ju444hu	14hh- 26S	1J4hhS1u	2MJh	dt l
Dq8vpl	1S071	2u10	- 1Jh	2uh2	2hJ6	6M8u	dt l
Dq8vpl	1Sh71	2uSS	200J	2JSh	26hJ	6M8S	dt l
Dnodpe	2- 72	61h16	61S0S	62Sh1	616h2	SMJh	dt l
DiInCidpe	u671	2u606u	2hh21S	2h20h-	2h2h24	2M12	dt l
DiInCidpe	uu71	26SSu02	20102- S	266h1Jh	266242S	2M2S	dt l
Db8bl	- 471	- S4hSu	- S- - uu	- S101S	- S- - - 6	SMJ-	dt l
cplr dpe	1Jh71	1S14J40u	1S24J- 1J	1S140Ju1	1S10h4Ju	SM16	dt l
cplr dpe	1Jh72	4S- 2u41	4S100- 1	4S00u24	4S420hh	SM00	dt l
cGwq8pe	2S- 71	2410	2- 0J	2- u4	2- h2	SM12	dt l
cGwq8pe	2SJ71	J1S1	J1h-	J1- 4	J14-	SM1S	dt l
cqC	11u71	u1h4	u6- 6	u4- 6	u422	2M0-	dt l
cqwCdpe	4071	1SS2h2	1S1Shu	hh- 1u	1SS2- 6	SMJh	dt l
RIwCdpe	2- u71	0uhh6	0h- 2-	0h- JJ	0h22J	SM2J	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T :a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T :a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqil
VwCwodpe	J172	6hS4J	6u- 2h	6uhJ6	6u000	SMl0	dt l
Yiiplr dpe	10271	16244	1020S	164S2	166- h	- M2	dt l
Yiiplr dpe	10272	0- u6	00h0	06u6	062-	2M7h	dt l
Yiiplr dpe	10671	11h02	11h40	110- h	11uu6	1M8u	dt l
Yiiplr dpe	10672	1J01S	1J621	162u2	1Ju01	2M26	dt l
Yiildpe	uh71	1- 40h646	1- uJS6Su	1- uSJ0uh	1- 012S14	1M4u	dt l
Yiildpe	uh72	141SJS2	1- 626J1	1- 4J1- J	1- 0206-	2M46	dt l
ZqCd	6672	uh- S6	uu26-	u00hS	uu4J-	SMlu	dt l
ZqdnCdpe	hS71	6- 1u6	6- h02	64h- J	64S- 1	1M10	dt l
ZqdnCdpe	h171	14S04	1Ju06	14u2J	14h2J	6M36	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8 l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNt . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l T RdNJu l b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9 r l .	F3l y l &	5 . dP
qNmb c omb	20:2	1-4	14-	10	1-	11N31	dDP
q. Tb C. h	121:1	-S	0-	77	-7	7 N04	dDP
qpPr . cl	0-:2	4	6	-	-	2SN3S	dDP
Bl pomb	17-:1	160	-s	1SS	1Ss	-SM44	dDP
Bl pomb	170:1	742	1Ss	s7	10s	sSM14	dDP
Br phNNmb	:1	-4	4	4S	40	14N04	dDP
BcPb mTE	2S :1	60SS4S1	60s0-s	661 76s	60S24-7	1N26	dDP
BcPb mTE	2S :2	711000S	72224-0	7102S -	710S004	1N0-	dDP
BpCb c r	s1:1	7042	70 2	7006	700S	SN0s	dDP
Fl ob omb	1Ss:1	s	s	10	11	47N74	dDP
Fl ob omb	1S6:1	77S	7S-S	7726	722s	4N0s	dDP
Fl ob omb	111:1	7-s	74	7-4	7-4	1N7S	dDP
Fl Nlomb	47:1	7S	2s1	2-2	2s1	1SN32	dDP
Fl Nlomb	44:1	77041	77SS6	72--S	77S	1N42	dDP
Fl peC.	12:1	226047S	224-0-2	22 2Ss-	226s427	1N32	dDP
Fl peC.	12:2	2sS-2	20s 4	2s-70	2s161	1N1	dDP
FENQpc r	7-:1	77744s0	71676 -	717SsS0	72S 667	7N41	dDP
FENQpc r	7-:2	1 7sS	1 0S-	1 7 0	1 4 4	SN4	dDP
FEpCb omb	-2:2	1S 0	1S-0	12-0	1170	N71	dDP
FCel NT	- :2	70	47	6S	40	2-N0-	dDP
FCDDr p	67:2	1S7S	s2S	-S	77	11N76	dDP
&hPDpCPomb	1-6:1	2-	10	s	10	-SN31	dDP
&hPDpCPomb	1-6:2	7	0	7	4	47N4S	dDP
Upeomb	164:1	s7	-S	-S	61	71NS	dDP
Upeomb	164:2	70	20	2S	2s	7SN2S	dDP
Gl oONd omb	16S:1	-S	60	1SS	02	7-N2-	dDP
Gl oONd omb	16S:2	127	14S	11S	124	12N3s	dDP
HONN omb	16-:1	47 414	10s2 s	--06-4	7 10s	2N30	dDP
HONN omb	16-:2	41 0 s0	41-s 7	4S0- 4-	41447S	1NS	dDP
t. oomb	11-:1	60s s47	6 -6206	6 67 -1	6 S77-0	1N47	dDP
t. oomb	11-:2	4-061	s-S00	-46-6	61s71	2N14	dDP
tpC.	-4:2	461	-10	411	467	11N41	dDP
tpC.	-6:2	7--1	-0-	470	4-67	24N4-	dDP
tpC.	-0:2	111	210	1s7	10S	71N60	dDP
KphDTC.	s7:1	262	2-2	241	2-2	4N22	dDP
Lr l o	2S6:1	170s	1122	1110	12S6	12N7s	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8 l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNr . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUM

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl.	F3l yl &	5. dP
Lr l o	2S0:1	122s	1S2s	1S22	1S 7	1SM02	dDP
Lr l o	2Ss:1	-4S1	44 -	467	4s4-	1SM34	dDP
LdEcmb	6:1	24S0s64	2-7SS1	2440002	2461ss-	2M7	dDP
9l g. r Pcmb	24:2	177	2-s	10-	1s	77M	dDP
9l . gl . r Pr	- - :2	127	107	4S0	27-	64M7	dDP
9 CNeor . mb	4:1	210	2SS	1SS	102	76M04	dDP
9 CNeor . mb	- :1	0-	0-	110	s	20M30	dDP
9 CNeor . mb	6:1	260	142	12-	10s	47M6	dDP
9 CNeor . mb	0:1	60	-s	s	44	0SM	dDP
9 CNeor . mb	s:1	142	60	s7	0	4SMS	dDP
ur Cohb cmb	1-S:1	4S	2S	20	2	7-M-	dDP
ur Cohb cmb	1-S:2	S	1S	0	6	1M04	dDP
ucdkr N	6S:2	20	6S	-7	40	70M	dDP
3 ECPDECpmP	71:2	1Ss	1-s	1 2	1-7	20M-	dDP
3 CTl PPcmb	7 :2	612	6S7	1SS-4	0-6	2M04	dDP
y ECocmb	1S7:1	6s62-7s	6 -6162	6s6s4 -	6s -072	SM06	dDP
y ECocmb	1S7:2	72-0-s0	7200S-S	72S4 S4	7246-14	1M-	dDP
l dl . ocmb	4- :1	44- -S66	4-16- -2	47- 0s-	4447sS1	1M0s	dDP
l dl . ocmb	4- :2	14S126	1467s1	1426S1	147S76	2M2S	dDP
l r Nl . cmb	s2:1	1	:-	4	S	SM3S	dDP
l r Nl . cmb	00:2	0	S	S	2	107M21	dDP
l r Nl . cmb	0s:2	1-	14	21	10	22M02	dDP
l dcdC.	2s:1	1sS611	10-s21	1060s	100041	1M42	dDP
l dNr p	1S0:1	160	1s7	110	1-6	22M7S	dDP
l dNr p	1S :1	1 2	1 2	12-	16	22M01	dDP
l Cocmb	27:2	21S 1	21-42	21416	2174	1M3	dDP
l TpC. Tcmb	s6:1	-60	-60	6Ss	-s1	4M14	dDP
l TpC. Tcmb	ss:1	2S10	1410	12-S	1-61	2-M47	dDP
l mNmp	74:1	2-41 2	2- 2S	2-s1-7	2-0422	1M14	dDP
Ar pecmb	1- :1	- 202s	-106 -	6-66s1	-s S7-	SM07	dDP
Ar pecmb	1- :2	4SS-6-1	41S4S40	7 40S07	4S1s 24	1M0	dDP
AEl NNdmb	2S7:1	7SS	410	4-s	7 2	2SM6	dDP
AEl NNdmb	2S- :1	2-	sSS	-S	s 2	M31	dDP
Ac	11s:1	1S42	12SS	12Ss	11-S	sM10	dDP
AcT . cmb	40:1	1-S	142	1-s	1-S	-M6	dDP
5pl . cmb	27s:1	s7	77	10	44	0sM30	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	n Dr pl TCpla	wl P8l N
LI eJl b DNJt&Jal	3B1-7 21BL	t. PTpmb . r TJul b r Ja	3s
FNr . TJl b DNJt&Jal	3BI 21	&dnTC. JRl dTCpla	1
&l Tr J JAdb r JqdOmpr o Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJul b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl .	F3l yl &	5 . dP
Vl . l ocmb	-1:2	20	4S	7S	72	21M7	dDP
YTTr pecmb	102:1	-S	77	0-	-7	7 M04	dDP
YTTr pecmb	102:2	22	77	2s	2s	2SM3S	dDP
YTTr pecmb	106:1	1277	1210	11Ss	11s6	-M02	dDP
YTTr pecmb	106:2	1S701	1S0s2	1S77s	1S4 0	2M76	dDP
YTTpcmb	s :1	12766sS0	122 S-1S	122-17SS	127S2s02	SM4s	dDP
YTTpcmb	s :2	1262s2-	17s2716	172127S	1722124	4M2	dDP
Zc d	66:2	1S7	16S	1-S	17s	21M-	dDP
ZqpdC. cmb	S:1	-60	7 2	7Ss	422	71M27	dDP
ZqpdC. cmb	1:1	42	1Ss	s7	0s	47M7S	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l T Rdpamle pas	S67LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14 6	1-61	1-4S	1-72	2M16	dDP
q. Tde C. h	121J1	16SS1	1010u	107S7	16u20	4M20	dDP
qlPp. cd	0-J2	24u	276	2-6	240	4N3u	dDP
Bl ldbe	17-J1	1u1uu	1 S 0	1u-uS	1u622	2M4-	dDP
Bl ldbe	170J1	7S676	726-0	72004	72S22	7M0-	dDP
BplhNbe	J1	2246	2211	22 1	224	1M0u	dDP
BdPe bTE	2S J1	616-4S6	6u-2S40	601S-S-	6-0- u6	-M1	dDP
BdPe bTE	2S J2	72S2 u2	71-1674	72S1464	71u-76S	SM2	dDP
BlCe c p	u1J1	4S-1	7642	4106	7 -6	0N3-	dDP
Fl oe dbe	1SuJ1	1-4	1uu	142	161	14M0S	dDP
Fl oe dbe	1S6J1	70S	76-1	7 42	7060	4M1S	dDP
Fl oe dbe	111J1	2022	2-uu	2-70	2616	7M04	dDP
Fl Ndbe	47J1	121u	122u1	11 0-	1214u	1M2	dDP
Fl Ndbe	44J1	224110	226 S	2266-1	22- 1	SM0S	dDP
Fl lr C.	12J1	27S14uS	22 4 Su	272 20-	27Su--4	SM0	dDP
Fl lr C.	12J2	20210	2uS-2	20u47	200S4	1M0	dDP
FENCl c p	7-J1	21-S0uu	2S4- -7	2S2S6 0	2S0240	7M7	dDP
FENCl c p	7-J2	170	12u4u	12u4u	1716-	4M10	dDP
FElCe dbe	-2J2	67-1	620-	6S71	621	2M	dDP
FCrl NT	- J2	4u21	4u64	4064	4u16	1N4	dDP
FCDDpl	67J2	u42	u0 7	u6S6	u6S	2M1	dDP
&hPDlCPbbe	1-6J1	10	S	u	u	1SSN2	dDP
&hPDlCPbbe	1-6J2	7	0	0	6	74M0S	dDP
Ulr dbe	164J1	-S	77	-u	40	26M6	dDP
Ulr dbe	164J2	27	70	1S	27	-0M1-	dDP
Gl oCNl dbe	16SJ1	60	0-	12-	u	7-MS	dDP
Gl oCNl dbe	16SJ2	11S	177	1-0	177	10MS	dDP
HCNe dbe	16-J1	u6677-6	-406uu	-u-0u1	26-6Su	-M7	dDP
HCNe dbe	16-J2	4Su606	412 Suu	42241S6	41466-4	1M0S	dDP
t. odbe	11-J1	67666 0	6u0 26	0S-2 72	60662	-M20	dDP
t. odbe	11-J2	u2uSu	47u7-	60 4-	64u67	2N4	dDP
tlC.	-4J2	22 67	27SSu	27-14	27162	1M2	dDP
tlC.	-6J2	42 11-	422-4-	42-6uu	42-0u2	SM0	dDP
tlC.	-0J2	1S4u2	1S-u0	1S670	1S-6	SM0-	dDP
KlhDTC.	u7J1	261	2-4	2-S	2--	2M4-	dDP
Lpl o	2S6J1	u-76	1S7	S64	u S1	7M6	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamle pas	S67LF: UMd

3lll e pTpl	9lPP	F3: 1	F3: 2	F3: 7	F3: 9pl.	F3: y: &	5. dP
Lpl o	2S0J1	000-	u240	001	0 14	7M60	dDP
Lpl o	2SuJ1	7-271	76uuu	7-62S	7- 17	2M41	dDP
LdEdbe	6J1	2774607	24u-- 7	2-112-	2447u42	7MS	dDP
9lg. pPdbe	24J2	1S17-1	1S7-S1	1S224	1S2760	1M3-	dDP
9l. gl. pPp	--J2	1740	1707	1777	17-1	1M1	dDP
9 CNr op. be	4J1	10uS4	1u270	10-62	10u6u	1M2	dDP
9 CNr op. be	-J1	21 47	21626	22020	22S	2M0	dDP
9 CNr op. be	6J1	2427u	27-01	2--S0	2447	4M37	dDP
9 CNr op. be	0J1	14S04	17-04	174	1701-	2M2u	dDP
9 CNr op. be	uJ1	74247	7-1u0	7-u64	7-S u	2M72	dDP
mpCohe dbe	1-SJ1	2S	17	2S	1u	21M06	dDP
mpCohe dbe	1-SJ2	7	7	0	4	47M4S	dDP
mdkpN	6SJ2	14 0	144S	17u0	1441	7M12	dDP
3ECPDECIbP	71J2	277	177	142	16	72M0-	dDP
3CTl PPdbe	7 J2	01247	01Su4	0S024	01S10	SM70	dDP
y ECodbe	1S7J1	62-u407	6 S6S7S	6 -02-0	60S02-7	-M41	dDP
y ECodbe	1S7J2	771-6S	716 S0-	7222S7	727--04	2M2	dDP
: dl. odbe	4-J1	4S u62	46S-70u	44 646	44SS-0S	6M3-	dDP
: dl. odbe	4-J2	14-02	17 72	14-4 2	14701u	2M2u	dDP
: pNp. dbe	u2J1	021	1	u14	u1u	12M3u	dDP
: pNp. dbe	00J2	20	7S	7S	2	6M4-	dDP
: pNp. dbe	0uJ2	1		S	7	-M2u	dDP
: dNdC.	2uJ1	270770	2760 4	270764	27016-	SM14	dDP
: dNpl	1S0J1	114--	11614	1S 7u	11776	7M12	dDP
: dNpl	1S J1	1S4 6	1S001	1S uu	1S0-2	2M2	dDP
: Codbe	27J2	1 7027	1 6SuS	1u 0u1	1 71 -	1M4-	dDP
: TC. Tdbe	u6J1	2 42	7S74	7S74	7SS7	1M06	dDP
: TC. Tdbe	uuJ1	22061	22 11	27S2u	22 SS	SMu	dDP
: bNbl	74J1	26766u	26-740	26u67u	26-uu4	SM-	dDP
Aplr dbe	1- J1	1u4u2S	00001-	0-2-6-	-010SS	7MS	dDP
Aplr dbe	1- J2	7 7uu1	7 21127	4S 41S2	4SS7S7-	2M10	dDP
AEl Nbbe	2S7J1	2 -	046	0-4	- u	2M07	dDP
AEl Nbbe	2S-J1	22412	27 4u	241u1	27-14	4M3	dDP
Ac	11uJ1	11-S	17S	1742	1260	uM3	dDP
AdT. dbe	40J1	6-7-	6747	- 06	62u-	4M2	dDP
5ll. dbe	27uJ1	722SS	721 2	72S4	72140	SM26	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamle pas	S67LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	u60	700	0 S	60u	2M07	dDP
YTpIr dbe	102J1	42	-S	0-	-6	71M22	dDP
YTpIr dbe	102J2	2u	2u	77	7S	1SM1	dDP
YTpIr dbe	106J1	1110	12SS	1S0-	1171	-M07	dDP
YTpIr dbe	106J2	1S400	u-	11S77	1S4-6	-M61	dDP
YTTdbe	u J1	11--- -7	12-- 47-	12u72u60	12716Su-	-M46	dDP
YTTdbe	u J2	17-7460	124-76	126-S60	12u0 6u	4M40	dDP
Zc d	66J2	24 0	2244	2440	27 6	-M0S	dDP
ZddC. dbe	SJ1	144-u	14u10	1460-	146-S	1M27	dDP
ZddC. dbe	1J1	7-74	7142	7460	77u1	6M2S	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdPP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N2hSNS	N24020	N14h4N	N22h1N	SMMN	dDw
qCTb nCE	12171	2- 0:	24N4	22h2	2- N4	4NS-	dDw
qpwr Ccd	0: 72	20Nh	201-	2622	20SN	- NSh	dDw
Bspcmb	1- : 71	40464S	4h- 240	4h- : S2	4N01- S	2M02	dDw
Bspcmb	1- 071	N66h4h	N0S2- 2	N001: 4	N0144:	SM0S	dDw
Br pEPPmb	h71	1N- h	1h14	1h04	1hSh	- M4	dDw
Bcwb mTG	2Sh71	02h: 241	0S242: :	6: - 6h6h	6h: 21: :	: M-	dDw
Bcwb mTG	2Sh72	- 26N0- h	- 1: N: - -	- 2S: 26h	- 21SN40	1M02	dDw
Bpmb cOr	N171	646N	0S6h	0: S2	0S1-	0M4S	dDw
5 sob cmb	1SN71	16-	1SN	121	1- 1	21M02	dDw
5 sob cmb	1S671	42- 4	- h60	4126	41Sh	- M20	dDw
5 sob cmb	11171	16: 6	1: 2h	1: 2S	1: 6N	4MM-	dDw
5 sPlcmb	4- 71	0- : 0NS	0: SS- N	0: 0hSh	040hSh	1M1S	dDw
5 sPlcmb	4471	1224Nh20	12: 06: 1S	12: NN- 0S	1240126h	1M4	dDw
5 spenC	1271	4NN16SS	: 2S6S2N	: 1216- :	: S6h0: 4	- M2	dDw
5 spenC	1272	62204	6- Sh4	616: :	62- 41	1M16	dDw
5 GPhpcOr	- : 71	12NS1NN1	16022: 22	1h- 0- 22h	162hh211	2SM2N	dDw
5 GPhpcOr	- : 72	160- Sh	1046N0	1N1S02	104- : 6	- M1:	dDw
5 Gpmb cmb	: 272	- N6: 2	- 6: 1S	- 0S0N	- 041-	2M10	dDw
5 nesPT	: h72	- 066-	- 0666	- N4: :	- 0h2N	1M2S	dDw
5 nDDr p	6- 72	0- hS1	04S: 2	0264:	0- : - -	1MS:	dDw
&EwDpnwcmb	1: 671	: S622	: - : 10	: - : 0:	: 2: 02	- M21	dDw
&EwDpnwcmb	1: 672	21: 4N	22122	216N4	210N:	1M1N	dDw
Fpecmb	16471	416h1	44- 16	421N4	420- 1	- M20	dDw
Fpecmb	16472	10S0N	10S14	16NhN	16hh0	SM4	dDw
HsonPCcmb	16S71	466N2	4hS41	4hS04	4N266	2MM4	dDw
HsonPCcmb	16S72	2- 160	22N1-	224h2	22N24	1M4N	dDw
y nPb cmb	16: 71	1S- 16S06	1S- 2NSN6	h26- 020	hh6h2h6	6M1-	dDw
y nPb cmb	16: 72	42SS: : :	41- 1h14	4Sh6N0-	414- 114	1M20	dDw
tCocmb	11: 71	062h122	0- 001: S	66- 4N: 1	021- 0SN	0M10	dDw
tCocmb	11: 72	h: NS- 1	h: 6h2:	h: : : 14	h: 6N24	SM1-	dDw
tpnC	: 472	2: 4S40-	261: - 0-	2: 206S-	2: 6114h	1MM:	dDw
tpnC	: 672	46Nh2: - 0	40014S06	4: 66: 0- h	460: 04: 1	2M2S	dDw
tpnC	: 072	112S6N-	111: SN6	11S- S40	1112h- h	SMM1	dDw
KpEDTnC	N- 71	- - S	- 4h	- 12	- - S	: M4h	dDw
Lr so	2S671	- Sh: 21	- 2S: 2S	- 2S- 11	- 160N4	1MMh	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	2: 4211	2624N-	26- - h0	26SS- S	1M1:	dDw
Lr so	2SN71	12S4010	1242: 2:	12: 6: - 0	12- 4: h-	2M10	dDw
LdTGmb	671	204SN4N	2: 0SS6-	24N: 416	2: hN00:	: M81	dDw
9 sgOr wcmb	2472	1N6- 2- 2	1N0- 461	1NN00S0	1N04NSS	SM06	dDw
9 sOgs Or wr	: : 72	: - N012	: 4SS01	: - SN- :	: - 6: - h	SM1-	dDw
9 nPEeor Omb	h471	11014	122Nh	12122	12S42	2M46	dDw
9 nPEeor Omb	h: 71	: - 4-	: 226	: 6- :	: 4S1	- M1S	dDw
9 nPEeor Omb	h671	6h6S	0: : 2	04S2	0- S:	4M21	dDw
9 nPEeor Omb	h071	- - 42	- - : S	- 210	- - S-	2M26	dDw
9 nPEeor Omb	hN71	N- 6h	N4N6	h- 12	N022	: MNh	dDw
u r noEb cmb	1: S71	N4NS6	N- h42	N41S2	N42N-	SM1:	dDw
u r noEb cmb	1: S72	26- 2-	26166	261h6	2622N	SM12	dDw
u cdkr P	6S72	2S- : 1	2S: h2	2S1- N	2S- 6S	1M12	dDw
8 GhwDGhpmw	- 172	4: 6N	40: 1	4: : h	4626	2M4	dDw
8 nTswwcmb	- h72	4N2h- :	406442	4NS1S0	40hN2N	SM0N	dDw
. Ghocmb	1S- 71	00112: 0	0- 600h:	66: 66S2	024: 21N	0M42	dDw
. Ghocmb	1S- 72	- 21: 10N	- ShN4- 4	- 1- 46N2	- 14h4- 1	1M1S	dDw
l ds Cocmb	4: 71	: S2: N44	4062: : -	446: 1N:	40: 11h4	: M1S	dDw
l ds Cocmb	4: 72	1461: 6	144: 6S	144h: S	14: 222	SM10	dDw
l r PP Ccmb	N271	6h	N4	11h	hS	2NM10	dDw
l r PP Ccmb	0072	60	NS	11S	N6	2: M14	dDw
l r PP Ccmb	0N72	h:	Nh	6-	N2	2SM06	dDw
l dPdnC	2N71	14- 6- NN2	146- 640S	14N2NhSS	146Sh0: 1	1M0S	dDw
l dPr p	1S071	262:	1h60	2S10	22S-	16M04	dDw
l dPr p	1Sh71	22- 4	21: S	24SS	2261	: M0-	dDw
l nocmb	2- 72	11440-	1106- 1	1164Nh	1161hN	1M1N	dDw
l TpnCTcmb	N671	6- 0N2N	6: 42: 4	6444: -	64: : 12	1M2N	dDw
l TpnCTcmb	NN71	: 01N: N6	: N2SS0S	: 022612	: 0: - 0: 6	1M8S	dDw
l mPmp	- 471	2h60SN	- SS: - N	- SS000	2hh- 41	SM06	dDw
Ar pecmb	1: h71	1SN6h- 62	1S4N4hhS	h62h1h2	1S- 20N4N	6M1:	dDw
Ar pecmb	1: h72	41616S-	41- N- 0-	4SS- 42:	41S11- -	2M8N	dDw
AGs PPcmb	2S- 71	2: h2	2hSS	2: h2	26h:	6M01	dDw
AGs PPcmb	2S: 71	6N6h	6644	60h4	606h	1M0h	dDw
AdC	11N71	606S	6h00	01h4	6h00	- M11	dDw
AdS Ccmb	4071	N1N4-	N4h6S	N2401	N- Sh1	1M1N	dDw
RpsCcmb	2- N71	: 2- 0:	: 1N4S	: - 1h:	: 240S	1M1S	dDw

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Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44.J46	&sTsUdP u sb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	6- 0S0	6- 044	6- 14N	6- : - -	SM-	dDw
YTTr pe omb	10271	1- SS0	120hS	1- : h1	1- 12h	- M16	dDw
YTTr pe omb	10272	6204	6- h1	61S0	62: 0	2M2N	dDw
YTTr pe omb	10671	h: N0	h012	h1h:	h4hN	2MM4	dDw
YTTr pe omb	10672	14664	14Nh2	14: 6h	140SN	1M-	dDw
YTTpomb	Nh71	146N4- 4S	1- 4S: 1: 0	12N6hhS:	1- 6: - 1- 4	6MM-	dDw
YTTpomb	Nh72	1- hh424	1- - N404	1- 21420	1- : - 1SN	- MS-	dDw
ZdCd	6672	46416	46: 2h	44hS4	4: h: S	1MM0	dDw
ZqpdnComb	hS71	2- 0: 4	2: 666	2: 1: 0	24N: h	- MMN	dDw
ZqpdnComb	h171	: 46S	: 026	: N: 1	: 60h	- M2	dDw

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On:7/14/2023 8:48:56 AM
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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdPP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6h02N:	6N: h6S	6NS0Sh	6N0hN:	1M4-	dDw
qCTb nCE	12171	2S2:	2- SS	210:	2160	6M6	dDw
qpwr Ccd	0: 72	- SS:	- 112	- S66	- S61	1M0:	dDw
Bspcmb	1- : 71	4Sh214	4ShNh-	- h062h	4S: : 0h	1M0S	dDw
Bspcmb	1- 071	02- 02N	02214-	02: hh0	02- h: 6	SM20	dDw
Br pEPPmb	h71	1: 2:	16- S	14h4	1: 4h	4M61	dDw
Bcwb mTG	2Sh71	6h10S02	62h1- - 2	662S1: 1	66Sh: 1N	4M04	dDw
Bcwb mTG	2Sh72	- 242N0N	- 2NSNN2	- 2S111S	- 24162-	1M4-	dDw
Bpmb cCr	N171	6N1N	0SS2	01N:	0SS2	2M62	dDw
5 sob cmb	1SN71	11-	121	1SS	111	hM44	dDw
5 sob cmb	1S671	41Sh	- h: h	44: h	4106	6M1:	dDw
5 sob cmb	11171	1: - 6	14- 2	1422	146-	4M-	dDw
5 sPlcmb	4- 71	62h- NS	6- 420h	6- 2664	6- 21S0	SMh	dDw
5 sPlcmb	4471	1S4- S4Sh	1SNS01- 0	1S- NNNS0	1S: 4211N	2M1h	dDw
5 spenC	1271	- : 62140	- 6S2- N0	- 6hS1h0	- 61N244	1MM1	dDw
5 spenC	1272	441SS	4: 01-	4- 1N1	44- - 1	2MMh	dDw
5 GPmpcCr	- : 71	1h: h- S- 1	2- : : 6: 6:	2: hhN0h:	2- S4h464	14M3-	dDw
5 GPmpcCr	- : 72	2S2hS6	2SNh00	21S044	2S0: 4-	1M1N	dDw
5 Gpmb cmb	: 272	- 10h:	- 21NS	- 210S	- 2S4N	SM0N	dDw
5 nesPT	: h72	- : N: 2	- 6Nh1	- : h2h	- 6224	1M0S	dDw
5 nDDr p	6- 72	6- 2: 0	6- - 44	6- 6Sh	6- 4S-	SM2h	dDw
&EwDpnwcmb	1: 671	: - 0Sh	: 4002	: 1hN:	: - 4Nh	2M0-	dDw
&EwDpnwcmb	1: 672	22Sh:	216: 1	21: : 1	21066	1M-	dDw
Fpecmb	16471	4S22S	4S20N	- h6- :	4SS4:	SMMh	dDw
Fpecmb	16472	161S0	1: h46	1: 0S-	1: h1h	1M2N	dDw
HsonPCcmb	16S71	4622-	461: 6	4: 44:	4: h41	SM14	dDw
HsonPCcmb	16S72	22- Sh	216h4	21: 24	21N42	1MMh	dDw
y nPb cmb	16: 71	1SSh- 0: h	Nh: N6h4	h441S42	h4h0N- 2	6M3S	dDw
y nPb cmb	16: 72	4142NN6	42: : N4S	42S66: S	42S10h2	1M:	dDw
tCocmb	11: 71	01006S2	6464NS4	6N021Sh	6N- N102	: M4-	dDw
tCocmb	11: 72	h: 0h6-	h6: S6h	h64: 14	h62: 16	SM41	dDw
tpnC	: 472	2- : : 26:	2- 6: 222	2- - N441	2- : 2h06	SMN	dDw
tpnC	: 672	424ShSh4	42- NS: 2h	42201466	42- : - 6h6	SM10	dDw
tpnC	: 072	1S11462	1S246NS	hh: : S6	1S1S: 4h	1M4:	dDw
KpEDTnC	N- 71	- S2	2hS	- 24	- S:	: Mh	dDw
Lr so	2S671	206S01	202NNS	20N: : 4	20: N- :	1M3-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sT i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP usb r J	S6: q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	22hh- :	2- 102h	2- 22- 1	2- 12hN	SM12	dDw
Lr so	2SN71	1SNS1Nh	1ShShh4	1S0S60h	1SNS621	SM14	dDw
LdTGmb	671	2: : : 010	22hh- N0	2: 20411	246SN- N	: M01	dDw
9 sgOr wcmb	2472	14: 1: N6	14- S2h4	14S41- N	142N60-	1M06	dDw
9 sOgsOr wr	: : 72	4N: 02S	4N: S- 4	4N2: 60	4N444S	SM14	dDw
9 nPEeor Omb	h471	1S62h	1ShNN	11S21	1SNNS	2M3S	dDw
9 nPEeor Omb	h: 71	: SS1	: 2Sh	: 16N	: 126	2M1:	dDw
9 nPEeor Omb	h671	6N6S	6NN:	6N6h	6N01	SM1h	dDw
9 nPEeor Omb	h071	- 110	- - h2	- 1Sh	- 2S6	: M3-	dDw
9 nPEeor Omb	hN71	00N6	N1- 6	0h- 6	0h: 2	2M21	dDw
u r noEb omb	1: S71	Nh0h2	hSS4N	hS: : 1	hS1- 1	SM4-	dDw
u r noEb omb	1: S72	2N226	20261	20N- 6	20004	1M0:	dDw
u dkr P	6S72	2S- - 1	1h: 60	1h644	1hN40	2M12	dDw
8 GhwDGhpmw	- 172	- 460	- 110	- 2N4	- 2Nh	: M12	dDw
8 nTswwcmb	- h72	- 0: NS6	- 60: SS	- 0- S22	- 021Sh	1M14	dDw
. Ghocmb	1S- 71	01- - SN0	6: 2h: SS	6h: 2- 2N	6N016- N	4M11	dDw
. Ghocmb	1S- 72	- 21N066	- 21166S	- 22: h2:	- 21N0N-	SM22	dDw
I dsCocmb	4: 71	46: 0Nh6	42S: N1S	4: h142N	44N: S44	: M44	dDw
I dsCocmb	4: 72	14: NSh	14000N	140h44	140100	SMM1	dDw
I r PCcmb	N271	1S6	11:	11h	11-	: M06	dDw
I r PCcmb	0072	hS	12-	1S-	1S6	1: M1S	dDw
I r PCcmb	0N72	N0	60	04	06	1- M:	dDw
I dRdnC	2N71	1- N1- h6-	1- N12SS:	146hhh- 1	141SN6- -	- M0-	dDw
I dPr p	1S071	22: h	22: S	2S2:	210N	6M3N	dDw
I dPr p	1Sh71	22N4	22- 4	21SS	22S6	4M1S	dDw
I nocmb	2- 72	1122- S	111: : h	11Sh12	111: 60	SM1h	dDw
I TpnCTcmb	N671	: 20hS2	: 2SN: h	: 1N06S	: 22: S0	SM12	dDw
I TpnCTcmb	NN71	46N462-	4024: 6S	401011:	40SN066	SM4:	dDw
I mPmp	- 471	2h4S14	2h: S0h	2h: 66-	2h4h1N	SM2N	dDw
Ar pecmb	1: h71	1S42S160	hS060N0	hNSS14:	h06: 6hh	6MMN	dDw
Ar pecmb	1: h72	4Sh1011	412: h20	4S6N1: 2	4Sh: 26-	SM01	dDw
AGsPbmb	2S- 71	212:	2S- 4	2- 0:	210N	NM12	dDw
AGsPbmb	2S: 71	: : 1S	: 2N:	: 4h-	: 42h	2M11	dDw
AdC	11N71	: 0- :	: 0: 1	0- - h	620:	14M0h	dDw
AdSCcmb	4071	64hS0	6- 042	6- - hh	64S16	1M4-	dDw
RpsCcmb	2- N71	420N1	4- 2- 2	42NhS	42h6N	SM1:	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Rr CTI sb DP t& J	9 y SU16	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP u sb r J	S6: q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	: N: 26	6SN: :	: h4- -	: h6S:	1M10	dDw
YTTr pe omb	10271	1Sh6-	112NN	1S46-	1ShS:	- MM1	dDw
YTTr pe omb	10272	: 10h	: 212	: SS0	: 1- -	2M1:	dDw
YTTr pe omb	10671	N21h	0N2N	N2: -	N1SS	2M12	dDw
YTTr pe omb	10672	1- 004	14S- S	1411h	1- h04	1M2N	dDw
YTTpomb	Nh71	1- : 00106	12- 01SN4	1- S6N- S6	1- SS: : 22	4M06	dDw
YTTpomb	Nh72	1- 20S1S	1- - 6N2S	14S61: S	1- : 666S	- M1N	dDw
ZdCd	6672	- 0N64	- 6- 1-	- 0Nh4	- 0- : 0	2M42	dDw
ZqpdnComb	hS71	210: h	21N: h	2S: 4h	21- Nh	- M41	dDw
ZqpdnComb	h171	4N6N	4hS1	44: 1	404S	: M2h	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdPP usb r J	S66q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	0h6: : :	0NNS: h	0N2h2h	0Nh1N1	SMM0	dDw
qCTb nCE	12171	10SS	1h: S	1NSS	1N10	6M1-	dDw
qpwr Ccd	0: 72	- S14	2hSh	2h20	2h: S	1M1S	dDw
Bspcmb	1- : 71	0S: : : :	01ShNh	01hh4:	01216-	1MS2	dDw
Bspcmb	1- 071	12011S1	120406:	120112:	1202- - S	SM10	dDw
Br pEPPcmb	h71	02N1	0SSS	042N	02- 6	- MS1	dDw
Bcwb mTG	2Sh71	60- 6NhS	6N11066	0S4SSN6	6N62h14	2M1S	dDw
Bcwb mTG	2Sh72	- 1221S6	- - 401: 1	- 2Nh- : 0	- 2: 2N02	- M1h	dDw
Bpmb cOr	N171	h10N	h: 62	1S4- 0	h026	6M04	dDw
5 sob cmb	1SN71	2S4	10:	2- N	2S6	1: M22	dDw
5 sob cmb	1S671	: 1- 4	: 46S	: S: 1	: 21:	4M14	dDw
5 sob cmb	11171	22N0	2- 6h	2414	2- : 0	2M0-	dDw
5 sPlcmb	4- 71	22- S: 6	22NSh-	22N- h6	226: 1:	1M12	dDw
5 sPlcmb	4471	- Nh1Nh:	- 0h- S2-	- h26NN2	- N0S6SS	1M0h	dDw
5 spenC	1271	- hN6S0-	42S: - 4h	424NN1N	4146040	- M1S	dDw
5 spenC	1272	: 21: 2	: 2S06	: 204:	: 2- 24	SM0S	dDw
5 GPnpcOr	- : 71	210h- SN0	2: 6h0- N0	2N1h: hS2	2: 22N0h2	12M0h	dDw
5 GPnpcOr	- : 72	2214: S	22- 02:	220- : 6	224100	1M-	dDw
5 Gpmb cmb	: 272	244- 4	2400:	240S:	246- N	SM0-	dDw
5 nesPT	: h72	- 02h6	- 06: S	- 0NS-	- 0: N-	SM0h	dDw
5 nDDr p	6- 72	6: - 0S	6424N	6- h- 0	64: 1N	1M10	dDw
&EwDpnwcmb	1: 671	- 0N4S:	- N00N1	- N420:	- N- 4N0	1M24	dDw
&EwDpnwcmb	1: 672	161- - 6	1: 0: hh	1: h1: 4	1: h- 6-	1M1N	dDw
Fpecmb	16471	- ShN04	- 12644	- 21: hh	- 140S6	1M1:	dDw
Fpecmb	16472	12h: hN	12N: 46	12: 046	120h6-	1M16	dDw
HsonPCcmb	16S71	- 2: 4- 6	- 2SN06	- 2: - 64	- 2- Nh2	SMM1	dDw
HsonPCcmb	16S72	1: 42NS	1: 424h	1: SNNh	1: - 1- h	1M20	dDw
y nPb cmb	16: 71	h: N6SNN	hh64N2h	1S- N26: 0	hh00N: N	- M1h	dDw
y nPb cmb	16: 72	4S: - - 0-	42: 0244	4- - 4- N1	4214hhh	- M14	dDw
tCocmb	11: 71	0Sh- 44:	011- 6N4	020N: SN	0161N0h	1M12	dDw
tCocmb	11: 72	h- N- 06	h6006h	h0N4: 1	h61: - 2	2M16	dDw
tpnC	: 472	4S- 6410	41: 416h	4S12- Sh	4S606- 2	1MM0	dDw
tpnC	: 672	0- h4- 4: 0	0- - N6: S4	0- - h- S- N	0- : 04- - -	SM1-	dDw
tpnC	: 072	1h2NNS0	1N66111	1Nh620N	1Nh0S6:	1M0:	dDw
KpEDTnC	N- 71	6N1	0S1	6h:	6h2	1M1N	dDw
Lr so	2S671	424- 0h	422N0h	42NN6:	42: - 0:	SM0-	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU10	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP usb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- 4NhSh	- : 1: - 2	- : 12h:	- : S: 0h	SM41	dDw
Lr so	2SN71	10S16- h	16h211h	10241hh	10S: hN6	SM10	dDw
LdTGmb	671	24hS: NS	24NShN2	2610N4N	2: 2hNS-	- MS2	dDw
9 sgOr wcmb	2472	6042SN	60- h40	66Nh2N	602- 61	SM44	dDw
9 sOgsOr wr	: : 72	20- h- 40	2064h02	2021: 42	2041h: 4	SMMS	dDw
9 nPEeor Omb	h471	1- 2: 0	1- 66:	1- N- 2	1- : N:	2M1N	dDw
9 nPEeor Omb	h: 71	h4N0	1SS46	h: 62	h6hN	- M1-	dDw
9 nPEeor Omb	h671	11- 40	11064	116h0	116S2	1M1-	dDw
9 nPEeor Omb	h071	: h- :	61h-	6S1N	6S4h	2M1N	dDw
9 nPEeor Omb	hN71	1: : S1	14h: S	14060	1: S02	2M1-	dDw
u r noEb cmb	1: S71	601: NN	6N- - 00	6NhS6h	6N1- 4:	1M11	dDw
u r noEb cmb	1: S72	21S: 1:	2S01N-	2S4: SN	2S04S2	1M4:	dDw
ucdkr P	6S72	10011	104S1	10- 61	104h1	1M1S	dDw
8 GhwDGhpmw	- 172	- 1- 4	- - SS	- 242	- 22:	2M62	dDw
8 nTswwcmb	- h72	0- 66h:	040: 6h	0- 1SSS	0- N421	1M14	dDw
. Ghocmb	1S- 71	6N40614	0S: 6NNN	02: N2: 4	0S: 42: 2	2M11	dDw
. Ghocmb	1S- 72	- S0N2- 6	- 1h- N: h	- 20- Sh:	- 1N10- S	- MSN	dDw
I dsCocmb	4: 71	46: N64S	46: Sh00	40N116-	46h6h20	1M16	dDw
I dsCocmb	4: 72	1420- 1	14010-	1: 1N44	14024h	- MSh	dDw
I r P Ccmb	N271	412	41S	46:	42h	0M24	dDw
I r P Ccmb	0072	02S	01-	6hS	0SN	2M4-	dDw
I r P Ccmb	0N72	4: 1	: 2S	401	4N1	0Mh	dDw
I dPdnC	2N71	14: S410:	1: 42: 6- 4	14hN44- -	14h01414	- MSN	dDw
I dPr p	1S071	2210	22: h	2S42	2102	: M2h	dDw
I dPr p	1Sh71	2110	2: 60	2S: h	2240	12MN	dDw
I nocmb	2- 72	4461h	44Sh2	4- : N2	44ShN	1M1N	dDw
I TpnCTcmb	N671	160- 6S	10- : : 2	104112	10160:	2M1N	dDw
I TpnCTcmb	NN71	1: N: S1-	1: 04: - N	1: 0: 0SS	1: 0N410	SM16	dDw
I mPmp	- 471	2NN266	2h1S0-	2N4- 16	2N0NN:	1M1N	dDw
Ar pecmb	1: h71	hNNh: 04	1S1h4N: 2	1S244S46	1S1Sh4h1	1M1S	dDw
Ar pecmb	1: h72	- h0- 60h	42- 402:	4210462	4141h: :	- M12	dDw
AGsPPcmb	2S- 71	- - 60	- - 60	- - - 4	- - : 6	SM10	dDw
AGsPPcmb	2S: 71	N- : -	0hh4	N: - 6	N2h:	- M12	dDw
AdC	11N71	16- 00	102- 0	16: 20	16014	2M0:	dDw
AdSCcmb	4071	4616h2	4NS262	40h402	40- NSh	2M42	dDw
RpsCcmb	2- N71	1S2- 2N	1S- N0:	1S62N:	1S416-	1M11	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP u sb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	404- :	4NS4S	46120	402S1	2N30	dDw
YTTr pe omb	10271	h: 2N:	h- - 46	hNh6-	h: N6:	2M1N	dDw
YTTr pe omb	10272	40S61	461S2	44N21	4: hh:	2M14	dDw
YTTr pe omb	10671	622: 6	: hh0h	61- 4-	611h-	1MN0	dDw
YTTr pe omb	10672	- h0S4	4S12N	4S: 2-	4S11N	1N32	dDw
YTTpomb	Nh71	16Nh: Shh	1022N: h:	1006N- S-	102h0- - 2	2M:	dDw
YTTpomb	Nh72	1046112	10hSN20	10h- 2- 2	1006024	1M1h	dDw
ZdCd	6672	h1S: 4	h1: h0	h2SS-	h1: : 1	SM12	dDw
ZqpdnComb	hS71	2224-	22h: -	2- h: 4	2- S: S	- N0-	dDw
ZqpdnComb	h171	: S26	4N4-	: 21N	: S2h	- N0-	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdPP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N- - 0h:	N16h: 0	N1: - : :	N22S- :	1M24	dDw
qCTb nCE	12171	10SS	160:	1NSS	102:	- NM-	dDw
qpwr Ccd	0: 72	- 1: S	- SNh	- Sh0	- 112	1NS0	dDw
Bspcmb	1- : 71	0: : 02N	0- hhh:	0: h42-	0: 1016	1M0	dDw
Bspcmb	1- 071	1- - 0h- N	1- - - 22N	1- 42NNh	1- - NS1N	SM6	dDw
Br pEPPmb	h71	0- 4:	0411	0: : 2	04- 6	1M4-	dDw
Bcwb mTG	2Sh71	6641NN4	6h4- 12:	6h126: :	6N- 2: : :	2M4-	dDw
Bcwb mTG	2Sh72	- - S6460	- - 4h26S	- 2212: :	- 2h2- 20	1MN	dDw
Bpmb cOr	N171	1S: 01	11- 6-	11h- S	112NN	6NS:	dDw
5 sob cmb	1SN71	160	10h	101	102	- N0S	dDw
5 sob cmb	1S671	: - S1	: 11N	: - h-	: 201	2N06	dDw
5 sob cmb	11171	2: h-	20S0	26hh	2666	2M4S	dDw
5 sPlcmb	4- 71	2- 4h0N	2- : NS1	2- 6646	2- : NSN	SM:	dDw
5 sPlcmb	4471	- hh40SS	- h1N2Sh	41Sh0S4	4SS0: - N	2M41	dDw
5 spenC	1271	442604N	4: 00: 10	462S1N1	4: 414N2	2M24	dDw
5 spenC	1272	: : 04N	: 40S2	: 44N:	: 4h0N	1M2-	dDw
5 GPmpcOr	- : 71	2- : 110N6	201- 6606	2h222161	2662- : 41	1SNM:	dDw
5 GPmpcOr	- : 72	22- h0h	22NN46	2- 6: - -	22h0N6	2N0:	dDw
5 Gpmb cmb	: 272	2: 6N6	261S1	2: 22h	2: 602	1N0S	dDw
5 nesPT	: h72	- NSh1	- N241	- 04h-	- 0h42	1NS4	dDw
5 nDDr p	6- 72	64h- :	6- N1-	64SN4	64200	SM1	dDw
&EwDpnwcmb	1: 671	- N16- -	- N1h41	- NhS- S	- N42S1	1NSh	dDw
&EwDpnwcmb	1: 672	1: h- 1N	1: h6- 6	1: h6N1	1: h: 4:	SM12	dDw
Fpecmb	16471	- 1S- 6N	- 221: 2	- 22421	- 1N- 14	2M16	dDw
Fpecmb	16472	126hS2	1264hh	126N2:	126042	SM10	dDw
HsonPCcmb	16S71	- 2: 666	- 2- S- 1	- 24: 2:	- 244S0	SM41	dDw
HsonPCcmb	16S72	1: - N61	1: 4hh:	1: 1: S6	1: - 4: 4	1M16	dDw
y nPb cmb	16: 71	h6661Sh	hh4- hS1	1SS40: 62	hNN: N: 0	2NSS	dDw
y nPb cmb	16: 72	4- N166h	4- 2: 4h0	42S6: - h	4- S4: 6N	2NSN	dDw
tCocmb	11: 71	6hNN4SS	012: 6h-	0- N200h	016: 624	2N0h	dDw
tCocmb	11: 72	hN: : S2	hN2N- :	hN44: 6	hN426:	SM14	dDw
tpnC	: 472	421hh6S	42NS: N1	4- 266hh	420: 040	1M2:	dDw
tpnC	: 672	00: 660N:	0N1: SSh6	00- 0N1: 0	006hN- 46	SM12	dDw
tpnC	: 072	2S26: 6:	2S22: hh	2S14011	2S212h2	SMS	dDw
KpEDTnC	N- 71	602	6: 2	014	6NS	4N0S	dDw
Lr so	2S671	4- 01N-	4: - N- h	44- : S-	444N42	1NNh	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1N	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	- 62S- N	- 6: 0S6	- 6: - 24	- 64- : 6	SM:	dDw
Lr so	2SN71	104- h- h	1004104	10062N6	1064NSS	1N8-	dDw
LdTGmb	671	2: S: 002	26S- : 0:	2: 442SN	2: : 11N:	1M1-	dDw
9 sgOr wcmb	2472	66h11N	66: 002	66- Nh-	666261	SM4S	dDw
9 sOgsOr wr	: : 72	2N1- 04-	2N62: - S	2N41N- -	2N- h- 6h	SMN6	dDw
9 nPEeor Omb	h471	10h16	1- 46:	144N-	1: 2NN	1: N2:	dDw
9 nPEeor Omb	h: 71	hN62	hN62	1S212	hh0h	2N8-	dDw
9 nPEeor Omb	h671	116- N	12Sh0	12240	11hh4	2N04	dDw
9 nPEeor Omb	h071	6- 20	616S	: h6N	61: 2	2M12	dDw
9 nPEeor Omb	hN71	1: hS1	1: 4h2	1: h6N	1: 0N0	1N0-	dDw
u r noEb cmb	1: S71	601006	6Nh- 0h	6N2: : :	6N12- 0	1MS	dDw
u r noEb cmb	1: S72	2SNhSh	2S: N22	2S6h- 2	2S0221	SM0:	dDw
u cdkr P	6S72	10h6N	1NS11	10NSN	10h2h	SM0S	dDw
8 GhwDGhpmw	- 172	- 2N4	2N42	- 1h2	- 1S6	0M1	dDw
8 nTswwcmb	- h72	6h: 01-	6h1h- S	6h21h0	6h- 2NS	SMS	dDw
. Ghocmb	1S- 71	6NN46S1	021: - h0	024hS6-	0116- : -	2NN-	dDw
. Ghocmb	1S- 72	- - - 11: 1	- - 1h260	- 21N4- -	- 2Nh610	1NN	dDw
I dsCocmb	4: 71	40SN044	4661h1S	4002- 6-	4014- - h	1M1N	dDw
I dsCocmb	4: 72	1: 242S	1: 11NS	1: 1440	1: 16N2	SM4-	dDw
I r P Comb	N271	444	: 62	- h0	46N	1NM1h	dDw
I r P Comb	0072	6NS	6: S	60-	66N	2M6	dDw
I r P Comb	0N72	4: 1	406	461	46-	2N02	dDw
I dPdnC	2N71	164- 1hS:	1601hSS2	16N: h- 1:	1660SS04	1M1	dDw
I dPr p	1S071	2: : h	24: h	242:	24N1	2NNS	dDw
I dPr p	1Sh71	240:	2- 60	202:	2: 2-	0N2h	dDw
I nocmb	2- 72	6: S- 0	646S2	64216	6461N	SN04	dDw
I TpnCTcmb	N671	1N: - 06	1NN- 04	1N62- 1	1N666S	SMN-	dDw
I TpnCTcmb	NN71	10SSS60	16N- 2S2	1606- 04	16N6: 4N	SN02	dDw
I mPmp	- 471	20h012	2060: h	20- N- :	20606h	1N86	dDw
Ar pecmb	1: h71	1SS16S12	1SS: 4- hN	1S1- 4hh0	1SS6N46h	SM0S	dDw
Ar pecmb	1: h72	424162-	42- : S10	4101421	4216S2S	SM12	dDw
AGs PRmb	2S- 71	- 6: 1	- h: 1	- hh2	- N6:	4NN-	dDw
AGs PRmb	2S: 71	h1N0	NN0N	hSN0	hS: 1	1N04	dDw
AdC	11N71	2: : h1	24NhS	26- 6N	2: 616	2NNh	dDw
AdS Comb	4071	: Sh420	: S- 01-	: S01NN	: S6006	SM10	dDw
RpsComb	2- N71	1S4h66	1S6: h:	1S: 62S	1S: 020	SN0N	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP u sb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	4N6: h	4h1: 4	406S2	4N402	1M64	dDw
YTTr pe omb	10271	h04h2	h6h40	h: 6: -	h66h0	SM1N	dDw
YTTr pe omb	10272	40: : N	402SS	464S4	40S: 4	1M26	dDw
YTTr pe omb	10671	62S22	61661	641hS	62624	2M1N	dDw
YTTr pe omb	10672	41: 16	- h: S4	41621	4SNNS	2M12	dDw
YTTpomb	Nh71	16h1S0: 6	10- NSh6S	10- 06- 22	1022260h	1M10	dDw
YTTpomb	Nh72	1N41hN2	1NSh264	10N4: NN	1N11h44	1M1h	dDw
ZdCd	6672	hNh- :	h61h4	hNS1h	h0016	1M4-	dDw
ZqpdnComb	hS71	21060	221N:	22N11	222: 4	2M16	dDw
ZqpdnComb	h171	4NSh	: S06	: S4-	4h06	2M12	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	661N6h	6 N10	6 - N44	6 0106	SM04	dDw
qCTb nCE	12171	- h26	- N h	- 610	- NS1	4M20	dDw
qpwr Ccd	0 72	hhh	hS2	h10	h- h	SMMN	dDw
Bspcmb	1- 71	126N	Sh4S1	112-	111S0	SM12	dDw
Bspcmb	1- 071	NN 020	hS1NSN	Nhh42S	Nh 6 2	SM10	dDw
Br pEPPmb	h71	20h0	20S	26 6	202S	2M04	dDw
Bcwb mTG	2Sh71	6h2h006	0104NS0	0Sh- 6h0	0S66Sh-	1M00	dDw
Bcwb mTG	2Sh72	- 2 1hN	- 262040	- 2SN24	- 24Shh2	SMMh	dDw
Bpmb cCr	N171	02N	0 6h	00- 6	0 - S	- MS2	dDw
5 sob cmb	1SN71	20	20h	201	20	1M1	dDw
5 sob cmb	1S671	4626	4242	42 1	4- 0-	MS1	dDw
5 sob cmb	11171	- 162	- 112	- - N2	- 21h	4M	dDw
5 sPlcmb	4- 71	40N26h	4N1 64	4N- 14S	4NShh1	SM12	dDw
5 sPlcmb	4471	NShS04S	NShShh-	N104422	N11N01N	SMh	dDw
5 spenC	1271	422 - N	011- 0S	N2hN0S	6 4 h-	- M01	dDw
5 spenC	1272	6h 1	6h- 64	6hS2h	6h- S-	SM16	dDw
5 GPmpcCr	- 71	2- 4hN- 1N	201h0h11	2h2 h20S	266 1N- -	1SM1	dDw
5 GPmpcCr	- 72	22 N41	220S60	2- 1h0N	22N2h	1M12	dDw
5 Gpmb cmb	272	4S6 N	- Nh0-	- h0N	- hNS	2M12	dDw
5 nesPT	h72	61010	61- 1	6SS0S	61S- 4	1M41	dDw
5 nDDr p	6- 72	2Sh- 12	21Sh 1	2S66h1	2SNhN	1MS-	dDw
&EwDpnwcmb	1 671	6h0 S	011hN	01S4N	0S66	1M1-	dDw
&EwDpnwcmb	1 672	2N4 S	2h- 22	2h2hh	2hS24	1M01	dDw
Fpecmb	16471	h 2	NNhN	hh 2	h4 N	SMMh	dDw
Fpecmb	16472	2- hN	2- h-	241N2	24S- 4	SM4	dDw
HsonPCcmb	16S71	6- hNN	64S1-	6444N	641 S	SM4S	dDw
HsonPCcmb	16S72	2h S6	2h Sh	- S012	2hhSh	2M12	dDw
y nPb cmb	16 71	1S1S4- h	1SS1hN 2	1SS- 0N0	1SS - - 44	SM4	dDw
y nPb cmb	16 72	41N 1N6	414- 62	41- NN2-	41 N0N	SM01	dDw
tCocmb	11 71	0 S2N 2	0- hS h6	0- 21h2-	04S 124	1M4-	dDw
tCocmb	11 72	h N240	h- NNhS	h - 4h0	h S211	1MS6	dDw
tpnC	472	- hN110	- N44 66	- N0- 2hh	- Nhh6NS	1MM	dDw
tpnC	672	01 S N	011N 01	6h- 0N01	0S6N- S 0	1M04	dDw
tpnC	072	1N40421	1N- 14- 4	1N1h0-	1N- 2N6-	SM06	dDw
KpEDTnC	N- 71	- 20	- -	- - 4	- - 2	1M21	dDw
Lr so	2S671	4- 4 -	66	N0- S	2 N-	1M46	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	462SSh	460h6	46- 441	464402	SM60	dDw
Lr so	2SN71	216S216	21h0NS0	21N- 6 -	21NS h	SMM0	dDw
LdTGmb	671	2 Nh6hN	262146N	264h004	262S- 1-	1M1	dDw
9 sgOr wmb	2472	16 S6NN	1626 20	164N6S-	1641h- h	SMM2	dDw
9 sOgsOr wr	72	122h22S	11hNS16	12S24hN	12Shh11	1M1h	dDw
9 nPEeor Omb	h471	10144	106S-	10N0S	10 - h	2M3h	dDw
9 nPEeor Omb	h 71	1ShS	1S001	1S0NS	1SN1N	SM0h	dDw
9 nPEeor Omb	h671	126N1	1- 61	1- 6S0	1- - S1	4M34	dDw
9 nPEeor Omb	h071	601N	6N-	60 2	606N	SMMh	dDw
9 nPEeor Omb	hN71	104h	1020N	16N6h	10214	1MM	dDw
u r noEb omb	1 S71	111- h1	11 62N	112hh0	11- - - h	1MMh	dDw
u r noEb omb	1 S72	- 42 S	- - - N	- 4N12	- 414S	2M1	dDw
u dkr P	6S72	- - h 4	- 41- 4	- - h44	- 4S11	SM1	dDw
8 GhwDGhpmw	- 172	0h20	0 S2	NS00	0N- 6	- MM1	dDw
8 nTswwmb	- h72	N2N0S	0 0N6	h1S- 1	N- 22h	1M1	dDw
. Ghomb	1S- 71	020 Sh6	02106S4	01016N-	0221461	SM02	dDw
. Ghomb	1S- 72	- 16N S	- 1hh21	- 1NN01-	- 1N 4h-	SM4h	dDw
I dsComb	4 71	4N016 h	46N212S	4N1N- N-	40hS02S	2M34	dDw
I dsComb	4 72	14 N0h	14 2- 6	14 SS-	14 - 0-	SM1	dDw
I r PCmb	N271	226	24S	2- h	2-	- M24	dDw
I r PCmb	0072	10S	140	12-	140	1 M1	dDw
I r PCmb	0N72	1S6	12-	116	11	0M4-	dDw
I dRdnC	2N71	140NN- N0	14h10- 66	1 S- 02Sh	14h14- 21	SMM-	dDw
I dPr p	1S071	4- N4	4 06	444-	4460	2M2S	dDw
I dPr p	1Sh71	41- 4	44N4	4- - 4	4- 10	4M30	dDw
I nomb	2- 72	6h010	602h0	66S60	606h4	2M04	dDw
I TpmCTomb	N671	2h1641	2Nh061	2h4S2N	2h1N1S	SM0-	dDw
I TpmCTomb	NN71	2600NS-	261- 1N2	266h4- N	26 - 404	1M2	dDw
I mPmp	- 471	- 1S4 1	- 102- 4	- 1- S0-	- 1- N6	1M3h	dDw
Ar pemb	1 h71	1S64- hS-	1S1 0N44	1S- 40S 6	1S- N2h- 4	2M6	dDw
Ar pemb	1 h72	4SN S- 2	4S - - -	4Sh14	4S0661-	SMS	dDw
AGsPmb	2S- 71	- S42	- S S	- S h	- S S	SM20	dDw
AGsPmb	2S 71	661S	0044	6hN	011-	NM2	dDw
AdC	11N71	h14	h4 4	h20N	h2h2	1M60	dDw
AdSomb	4071	h 1 0	h4646	h46 -	h4N1h	SM1	dDw
RpsComb	2- N71	61SN1	6- - S1	610N	62S 6	1MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:u sb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	172	NSN2-	NS4SN	NSS06	NS4- 6	SM40	dDw
YTTr pe omb	10271	1N6- S	1N664	1N0S	1N666	SM2S	dDw
YTTr pe omb	10272	h2 h	NhhN	h2S-	h1 -	1MS	dDw
YTTr pe omb	10671	1- - 04	1- 666	1- 1- 2	1- - hS	2M8S	dDw
YTTr pe omb	10672	166- N	16N60	16hh	16N- -	1M80	dDw
YTTpomb	Nh71	14- h41- 2	1- N112N-	14Sh2h21	14Shh446	2M80	dDw
YTTpomb	Nh72	14- hS N	14S2S6	142- SN	1421 44	1M1	dDw
ZdCd	6672	hh62N	hN N0	hh110	hh111	SM2	dDw
ZqpdnComb	hS71	- S406	2h04h	- S442	- S222	1M6	dDw
ZqpdnComb	h171	64h-	6- 6N	6N00	6 NS	4M8-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . ql
d &be q dpe	2072	4a00- 0	: S: - u-	: SS2: 6	: S112:	SR0u	Ol l
d . iqe C. E	12171	- 606	- u- 4	- 6- 4	- 01:	2Ru4	Ol l
d ll p. qO	0: 72	6014	66a6	60a4	60- :	SR00	Ol l
Bwldpe	1- : 71	- : S426	- : 21a:	- 4: : 46	- 4a- ua	SRaa	Ol l
Bwldpe	1- 071	620a: :	61: 266	61: 6Su	61a61S	1R10	Ol l
BplE&&pe	a71	2- 4:	2- 64	220:	2- 2u	2RS1	Ol l
Bdqe biG	2Sa71	66Saa6u	6a: Su4:	6ua: - 0u	6u1u0- S	2R6u	Ol l
Bdqe biG	2Sa72	- 201u- 4	- 2S1uau	- - 2211u	- 26: 2u-	1Ru:	Ol l
BlCe q p	u171	611u	66- :	616u	6- S0	4R.2	Ol l
9 wne dpe	1Su71	160	22:	260	21a	22Rua	Ol l
9 wne dpe	1S671	41u4	446u	4- u4	4- 4:	- R :	Ol l
9 wne dpe	11171	2: au	2u2-	26aS	20S-	4Rla	Ol l
9 w&Odpe	4- 71	: - u1: u	: 4Su0u	: - 26- :	: - 0224	SR0u	Ol l
9 w&Odpe	4471	aS2016S	a- S1661	ua2- 120	aSu- au-	2R1:	Ol l
9 wlr C.	1271	- 2aaaS6	- 41- 241	- - 2S- 1:	- - 444u0	1Ru1	Ol l
9 wlr C.	1272	4S- 64	4SS14	4S4ua	4S2ua	SR61	Ol l
9 G&Clq p	- : 71	226u: uu4	26a402Su	2u060- 2a	261- - 404	11Ra4	Ol l
9 G&Clq p	- : 72	210- 0-	22- S- 1	22: 2ua	221uau	1Ru4	Ol l
9 GlCe dpe	: 272	- 216-	- 10S:	- 2Saa	- 1aua	SR0u	Ol l
9 Cr w&	: a72	020- 1	02S6u	012- 0	02S12	1RS4	Ol l
9 Ct t pl	6- 72	1auu: 0	1a: 024	1a6u01	1a01: 1	SRuS	Ol l
TEl t lCl dpe	1: 671	60022	0S- 1S	660a-	6u20:	2R60	Ol l
TEl t lCl dpe	1: 672	2u166	20006	2u21S	2uS: 1	SRu:	Ol l
Ulr dpe	16471	: 0ua4	: 02- 2	: a: a2	: u2- a	2RSa	Ol l
Ulr dpe	16472	2- u0:	2- a02	2- 6: 4	2- u- 4	SR6u	Ol l
HwnC&q dpe	16S71	61u2u	: au26	61- : S	61SS1	1R01	Ol l
HwnC&q dpe	16S72	2aS4:	2a: 4-	2a12:	2a2- u	SRa1	Ol l
h C&e dpe	16: 71	a2: S: : a	a02a6u0	aaS4uu6	a62u- 00	- R.2	Ol l
h C&e dpe	16: 72	41414u2	41606a4	4- 1uS01	42SaSu2	2R26	Ol l
& ndpe	11: 71	60: 004u	6a6: - 6a	01210: 6	6a4u2a1	2R6-	Ol l
& ndpe	11: 72	a: 2: - 6	a: 466:	a6- u22	a: 0SSu	SR6-	Ol l
&C.	: 472	- aa1aSS	- u- : 1S:	- u: 6- 40	- ua44: 1	2R1u	Ol l
&C.	: 672	0S01- 1: 0	6a2uSS00	0SS- u: 1:	0SS1S: u-	1RS2	Ol l
&C.	: 072	1u62a00	1006402	1uS6u2a	1u1: 426	2R42	Ol l
KIEt iC.	u- 71	- 66	- - 0	- 10	- 4S	0R2S	Ol l
Lpwn	2S671	: 1uS- u	: 1au2u	: 10- 1u	: 1u- a:	SR2:	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	42- 226	42a: u4	42a1a4	420- - :	SRu-	Ol l
Lpwn	2Su71	2S110Su	2S- 6122	2S2u10:	2S2: - - :	SR61	Ol l
LqiGdpe	671	2401104	2: 6S: aa	2: uS11S	2: - 02a4	2R2a	Ol l
y wg. pl dpe	2472	1216- 4:	12- 2110	12261Sa	1224u: 0	SR6:	Ol l
y w. gw. pl p	: : 72	16aSS6:	166a04u	160u66S	160a4a1	SR61	Ol l
y O&Er np. be	a471	2SS1:	2S016	2S: 04	2S4- :	1Ru1	Ol l
y O&Er np. be	a: 71	14u2:	1: 1Sa	140: u	14ua0	1R2:	Ol l
y O&Er np. be	a671	1uu1-	1u2: 4	1u66-	1u: 00	1R 6	Ol l
y O&Er np. be	a071	a- 2S	a: 0S	a62a	a: S6	1R02	Ol l
y O&Er np. be	au71	240- a	24614	242uS	24: 44	SRa0	Ol l
mpOnEe dpe	1: S71	11S40u	11Su6u	1S0: 2u	1Sa624	1R60	Ol l
mpOnEe dpe	1: S72	- - 4S:	- - : 0:	- 2040	- - 242	1R 2	Ol l
mqOkp8	6S72	- au1a	4S1u0	4S11-	4SS4S	SR4a	Ol l
NGOl t GOlbl	- 172	: 206	: : Sa	: 1: a	: - 1:	- R :	Ol l
NOiwl l dpe	- a72	- - 4- 12	- 216a1	- - SSau	- 2u0SS	1Ra:	Ol l
F GOndpe	1S- 71	64u0: : S	0S1S2- S	0S1: u0a	6u- 0uu6	4R44	Ol l
F GOndpe	1S- 72	- 21- 0S0	- 2S: 6S4	- 2- 210-	- 210161	SR42	Ol l
DOw. ndpe	4: 71	4- 4a6uS	46a: u- 2	4: 460: :	4: - S0: 6	- Ru-	Ol l
DOw. ndpe	4: 72	146: - :	14a- 0u	140- 0u	140064	SRaa	Ol l
Dp&p. dpe	u271	2: 6	214	2: 0	242	1SR20	Ol l
Dp&p. dpe	0072	12-	14S	1: 0	14S	11RaS	Ol l
Dp&p. dpe	0u72	1S1	111	1S-	1S:	: RS4	Ol l
Dq&qOC.	2u71	1Sa01616	11- : 14a-	1Sau0Su4	111S- - au	1Ra4	Ol l
Dq&vpl	1S071	: 126	40u4	: S- 4	4au2	- R :	Ol l
Dq&vpl	1Sa71	4uS1	4a06	4a: a	4a12	1Ra0	Ol l
DOndpe	2- 72	06a4:	0u062	0u126	00a44	1R1u	Ol l
DilC. idpe	u671	20S214	26u4u:	26a- : 2	26a- : S	SR 2	Ol l
DilC. idpe	uu71	24: 2: 1:	24u2: : u	2460- - a	2460401	SR61	Ol l
Db&bl	- 471	: 60: 00	: 0u0: 2	: 0- aaS	: 0- 4- a	SRau	Ol l
cplr dpe	1: a71	a6- 0: : 1	1SSa1Saa	1SS646S0	aa- 1Su6	2R 6	Ol l
cplr dpe	1: a72	- a66416	4S1SS12	4S0u0SS	4S1u- 06	1R41	Ol l
cGw&&pe	2S- 71	2460	20: S	26: S	262-	: R4u	Ol l
cGw&&pe	2S: 71	6220	61a-	: u00	6Saa	- R10	Ol l
cq	11u71	a012	au- 0	a2a:	a61:	2Ra:	Ol l
cqiw. dpe	4071	04400	02a1a	0- 0aa	0- 0- 2	1RS6	Ol l
5 lw. dpe	2- u71	6a6- -	6u0a:	666u4	6u- 01	2R22	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndqe	: 172	01a00	02141	012u0	01uS1	SR6-	Qtl
Yiiplr dqe	10271	1u4: :	1a24u	1a114	1ua- a	2R24	Qtl
Yiiplr dqe	10272	a- : a	ua2:	uuSa	aS- 1	- R21	Qtl
Yiiplr dqe	10671	1- 26:	1- 616	1- 1: 0	1- - 46	1RuS	Qtl
Yiiplr dqe	10672	166ua	16u- -	16a: 6	16u26	SR0a	Qtl
Yiildqe	ua71	1- S2: SS1	1- : u41aa	1- 0a: 264	1- 46u1: 4	2Ra6	Qtl
Yiildqe	ua72	14121: S	14- 4200	141u: 4u	14216: u	SRuS	Qtl
Zq O	6672	u1660	u1600	u1- 2:	u1: : 6	SR2:	Qtl
Zd OC. dqe	aS71	- 21S:	- 2: uS	- 2112	- 2266	SRu4	Qtl
Zd OC. dqe	a171	02- :	026S	6a00	01: u	2R1a	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	41y41S	4106S4	4141J0	410S60	SU64	ql w
cn&Amonh	12171	- 410	- E60	- 0Ey	- EJ1	4U0J	ql w
crwenAq	0E72	2- S6	22J0	22J6	22y-	SU4y	ql w
BsrAm	1- E71	- E6J0E	- EE- SS	- 406y4	- E- 2Jy	1UJy	ql w
BsrAm	1- 071	6- ES1-	6- - 20y	61y- 21	62y2SE	1UJ0	ql w
BerhPAm	y71	- JEJ	- y- y	- 00-	- JE6	2U16	ql w
BAmu&G	2Sy71	6J661- y	6JJ- S6E	6y61ySJ	6yS- 0S4	SU04	ql w
BAmu&G	2Sy72	- 1J02E2	- 2S44S1	- 2- 1S12	- 2S0EEE	SU6y	ql w
BromAne	J171	EyS1	EyS1	E0- E	EJ46	1U6E	ql w
RsOmAm	1SJ71	- E4	- ES	2J-	- 2y	12USJ	ql w
RsOmAm	1S671	441J	46Sy	4JS1	46Sy	4U16	ql w
RsOmAm	11171	2- - 6	220S	22- 2	220y	2UJS	ql w
RsRqAm	4- 71	4SE2- 0	4Sy464	4S- E02	4S6Sy1	SU0E	ql w
RsRqAm	4471	6JEE46-	01- J1EJ	604SE02	6y11- yJ	2Uy6	ql w
Rsrbon	1271	- JJJEy2	4112E- 0	41442S-	4S4J444	- U44	ql w
Rsrbon	1272	4y10E	4yy6S	4061y	4Jy1J	2U44	ql w
RGPrAne	- E71	2- S46- JE	20S- 16- 6	2yS2S- J1	26- 661- 4	11UE4	ql w
RGPrAne	- E72	21JJ46	22161S	222262	22SyS6	SUJ2	ql w
RGromAm	E272	22yy2	22011	22y4E	22JJ-	SU66	ql w
RobsR&	Ey72	2Jy2y	2JJSy	2J2- J	2J6Ey	1U2y	ql w
RoI I er	6- 72	6- 4y1	6- 1J0	62JS2	6- 16S	SUEE	ql w
t hwI rowAm	1E671	J016J	J6J66	J46E1	J622J	1UEy	ql w
t hwI rowAm	1E672	- 6SEE	- 41y4	- E2ES	- E166	2U6E	ql w
. rbAm	16471	6- EJ6	62121	61J00	62E2J	1U4J	ql w
. rbAm	16472	2EESE	24EJ6	2ES64	2ESE2	1UJ-	ql w
HsOoPAm	16S71	0EJ- 2	0- 046	02041	041S6	2U1-	ql w
HsOoPAm	16S72	- 4y22	- 42S4	- E4J0	- 4J01	1UJ4	ql w
9 oPmAm	16E71	y066- 6y	y06S21y	y0EySJS	y061JyS	SUS4	ql w
9 oPmAm	16E72	4114JSy	4160y- 4	4SJJS26	412- EyS	SUyy	ql w
DnOAm	11E71	0SSJ066	01S4EJE	01- E0E6	0SJ- S- 6	SUy-	ql w
DnOAm	11E72	y- 4- 42	yES2E1	y4SSJJ	y41E6S	SUJ6	ql w
Don	E472	1J2S146	1JES441	1J46202	1J- JyE-	SUJy	ql w
Don	E672	- - 44S- Sy	- - - 2Syy4	- 211J6yS	- 2yEyyy0	2U22	ql w
Don	E072	0y41Ey	0y- 21E	00y2Ey	0JJJ00	1US6	ql w
Krhl &on	J- 71	- E4	- SE	- 2E	- 2J	0U40	ql w
LesO	2S671	E- 14E6	E2224y	E1JS06	E2- y20	1UJ1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	442J6J	441J61	4- S4- S	4- J- J6	1UEJ	ql w
LesO	2SJ71	2S60SSS	2S660y4	2S4S- 2E	2SEJS4S	SU0E	ql w
LA&GAum	671	2E0y22-	2E40J- y	2EJ414J	2E0S4S-	SU00	ql w
5 sgnewAum	2472	04E12S	0E4ES1	0662J2	0EE- S1	1U4S	ql w
5 sngsnewe	EE72	4- E2yy	4- 0y- y	4- - 2y2	4- EE1S	SUE4	ql w
5 oPbOenum	y471	E1y0-	E- SS2	E12S-	E2SEy	1U0-	ql w
5 oPbOenum	yE71	4410	4J26	4E26	4EyS	4U61	ql w
5 oPbOenum	y671	12014	1- 22-	1- 4E0	1- 1- 2	2UJy	ql w
5 oPbOenum	y071	2- 42	2J60	2y10	20Sy	11U06	ql w
5 oPbOenum	yJ71	0Ey4	6yS2	02y4	026-	4U0J	ql w
NeoOhmAum	1ES71	1E4yJJ	1EE11-	1EEJ1E	1EE- SE	SU2y	ql w
NeoOhmAum	1ES72	4E1yy	4E126	44661	44yyE	SU6E	ql w
NAqkeP	6S72	14y- E	1E1JE	1E2- 2	1E110	1US6	ql w
8 GowI Goruw	- 172	ES1J	E2Ey	E24-	E10-	2U61	ql w
8 o&swwAum	- y72	41210y	4SySJ4	4S1- y4	4S0EE-	1U-6	ql w
CGoOAum	1S- 71	01- 0126	01SySE0	0S- SJ02	0Sy2- E2	SU0J	ql w
CGoOAum	1S- 72	- 141JS6	- 2216- 6	- 1ES060	- 1014S-	1U-J	ql w
pqsnOAum	4E71	46- 4- 46	400J202	46- 6S44	46J2JJ0	1U06	ql w
pqsnOAum	4E72	14E- Ey	14E2y-	141yS6	1441J6	1U-0	ql w
pe&enAum	J271	1- 0	1yy	162	166	1JUE2	ql w
pe&enAum	0072	1E0	1- -	10-	1E4	1- US1	ql w
pe&enAum	0J72	12S	11S	1SE	112	6UJ4	ql w
pAqon	2J71	1- SJS261	1- Sy606J	12y- 0- 01	1- S- J1- -	SU60	ql w
pAer	1S071	- yE1	- y60	- J26	- y1E	1UyJ	ql w
pAer	1Sy71	42Sy	- y42	- 060	- y0-	EU6S	ql w
poOAum	2- 72	E262y	E1y6S	E2411	E2- - -	SU6E	ql w
p&ona&Aum	J671	1yJEyJ	1yy200	1y406y	1y0E4J	1U2-	ql w
p&ona&Aum	JJ71	1J142SS	10J44E6	1JS1- 06	1JSSS11	SUJ-	ql w
pu&Pur	- 471	2y62Ey	- SS4EJ	- S142S	2yy- 0y	SUy2	ql w
i erbAum	1Ey71	yy1- 06-	yJ4E406	y02yJ64	yJ2y0S1	SUyE	ql w
i erbAum	1Ey72	4S66E46	- yy2y- 2	4SSJJ26	4S2206J	SUy6	ql w
i GsPAum	2S- 71	1ESJ	10y2	14EJ	1EJ6	11U--	ql w
i GsPAum	2SE71	- E06	- Jy2	- 4E1	- 6- y	6U26	ql w
i A	11J71	1EJE1	16100	16600	162- E	2UE6	ql w
i A&snAum	4071	1- 0S10	1- yESJ	1- 04SE	1- 0y00	SUy0	ql w
MrsnAum	2- J71	6E126	66224	6- 22E	64JEJ	2U-4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF2-	t A&on Fsq&or :	1
t s&e T i Ame c qduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	E172	442yE	4- Jy0	4420J	441E0	SUE1	ql w
Y&erbAum	10271	16y0S	10E62	10S2J	101J0	1UyS	ql w
Y&erbAum	10272	J440	J614	J2J6	J44y	1Uy4	ql w
Y&erbAum	10671	12214	1- J- -	12J4J	12y6E	6U2y	ql w
Y&erbAum	10672	166ES	162EE	16- - -	16412	1U20	ql w
Y&&Aum	Jy71	1- E1- - 0J	1- y42- 16	1- 0yE1- 2	1- 0ES20E	1UEy	ql w
Y&&Aum	Jy72	1- 2yJEJ	141- ESS	142- E2J	1- JJy62	- U0S	ql w
ZAnq	6672	622J-	62E6J	6140-	621SJ	SUy1	ql w
ZAqonAum	yS71	1- 210-	1- 2- 41	1- S4EJ	1- 16E0	SU0y	ql w
ZAqonAum	y171	2y- - 2	2yJ- -	2J6JS	2y2J1	1Uy0	ql w

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tuwb r :J	N
5 8r CTl wb D8 :t&:J	9 y SU2- &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	41 41h	41ah1-	41 462	410ah	SMa	dDl
qCTb nCE	12171	- 4ah	- 6h2	- 6 4	- 612	- M0	dDl
qpl r Ccl	0a72	2- - S	2- S1	2201	2- S1	1M2	dDl
Bwpcmb	1- a71	- a- 1h-	- 614h6	- a6- 41	- a0S1S	1M10	dDl
Bwpcmb	1- 071	62200S	64- S- a	6- - - 00	6- - S61	1M8S	dDl
Br pE8mb	h71	- 02a	- 04a	- 0 1	- 0aS	SM06	dDl
Bdl b mTG	2Sh71	6 aSa62	02a	6h 21ha	0S- Sa4	2M16	dDl
Bdl b mTG	2Sh72	- 2h- a06	- 22S S1	- 2- 0a06	- 2aS6a1	1M10	dDl
Bpmb cCr	171	a - a	6- S2	61a2	6Sh6	- M11	dDl
5 wob cmb	1S 71	- 10	2	- S	- S4	4M14	dDl
5 wob cmb	1S671	4a06	4a26	42Sh	44- 0	4M4	dDl
5 wob cmb	11171	2411	2- 00	22h0	2- 62	2M4	dDl
5 w8lcmb	4- 71	4S2S 1	4S6S -	4S4110	4S4Sh4	SM4S	dDl
5 w8lcmb	4471	600S1- S	6h4- a- 2	602ahS6	6 1- 1 h	1M8h	dDl
5 wpenC	1271	- 0h 6a1	- hh2h0h	4SS2440	- h- 1- ah	2M1-	dDl
5 wpenC	1272	400 0	4h66S	4 - - S	4 ah2	1M1	dDl
5 G8hpCr	- a71	2- S 1a0S	26h- 4h02	2 04216-	262a2hS2	11M81	dDl
5 G8hpCr	- a72	216h- 2	222a0-	224h6	2214h1	1M6	dDl
5 Gpmb cmb	a272	22ha	22 42	22a4a	220 2	SM14	dDl
5 new8T	ah72	2ha- 1	2 a42	2h0aa	2h206	2M2S	dDl
5 nDDr p	6- 72	640S-	64 01	641a0	64a00	SM4	dDl
&El Dpnl cmb	1a671	4- 0a	Sh	aa- -	6SS2	2M22	dDl
&El Dpnl cmb	1a672	- 466	- 42h1	- 6S a	- aS1a	2M0S	dDl
Fpecmb	16471	6444h	661S0	64a41	6aS- -	1M4-	dDl
Fpecmb	16472	2aS- 4	2aS04	2aa2a	2a211	1M8	dDl
Hwon8Ccmb	16S71	02440	0a hS	06220	04 aa	2M0h	dDl
Hwon8Ccmb	16S72	- 4421	- 404a	- 464	- 46Sa	SM4	dDl
y n8b cmb	16a71	h 6001a	1SaS160a	1SSSS226	1S12- 2S6	- MS	dDl
y n8b cmb	16a72	422SaS4	422- 2-	4220Sh	422- 61-	SM8	dDl
tCocmb	11a71	0S0621-	0a00h0S	0- 616aS	0- - 611	- M4-	dDl
tCocmb	11a72	h64a 2	ha01-	ha44a6	ha 026	SM4a	dDl
tpnC	a472	1 01h 6	1h102 6	1 4Sh22	1 060- 1	2M8a	dDl
tpnC	a672	- - 6h446	- - 000406	- - 4a0h2	- - 002a0h	SM22	dDl
tpnC	a072	0h60h2	S- 660	0h61a2	0h 01	SM42	dDl
KpEDTnC	- 71	- - a	- - S	2h4	- 2S	0M84	dDl
Lr wo	2S671	a2a21a	a- 16aa	a2h4- S	a2 060	SM02	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4407S	tCl Tpmb Cr T.uwb r :J	N
5 8r CTl wb D8 :t&:.J	9 y SU2- &	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :uwb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S071	420- 44	44- aa	442- S	4- 00- 0	2M86	dDl
Lr wo	2S 71	2S- Shh0	2S 4- S0	2Sah01	2Sa - 41	1MS	dDl
LdTGmb	671	2a- 4224	26h0 -	262 12a	262SS00	- M1-	dDl
9 wgCr l mb	2472	0aa0	0a40	04- 0-	0a14 -	SM	dDl
9 wCgwCr l r	aa72	446642	441144	442200	44- - a4	SM8a	dDl
9 n8Eeor Cmb	h471	aS 1h	a1 - h	a- 6S4	a2S 0	2M01	dDl
9 n8Eeor Cmb	ha71	4aSh	40h-	4a6	462-	- M24	dDl
9 n8Eeor Cmb	h671	1- ShS	1- 2hS	141hh	1- a26	4M0	dDl
9 n8Eeor Cmb	h071	- 1 4	2h- 4	2h- 4	- S10	4M0h	dDl
9 n8Eeor Cmb	h 71	0661	0hS2	02S2	0a	4M8h	dDl
u r noEb cmb	1aS71	1aSah0	1a0Sa6	1a- a4	1a- - a	2M1S	dDl
u r noEb cmb	1aS72	4a4 0	4a	4400a	4a- -	1M24	dDl
u cdkr 8	6S72	1a422	1a111	1a16a	1a2- -	1M8h	dDl
NGhl DGhpml	- 172	a106	a- 4-	a2- 4	a2a1	1M61	dDl
NnTwl l cmb	- h72	41- 1hh	4S- 4aS	411 4-	4Sh4h0	1M2h	dDl
. Ghocmb	1S- 71	0S64h- 2	04140ha	0Sa6- S6	010 60	2Ma	dDl
. Ghocmb	1S- 72	- 24001a	- 222 44	- 2Sh4a4	- 226601	SM8S	dDl
l dwCocmb	4a71	462a26a	4 141-	46S06 S	40S40 6	- M26	dDl
l dwCocmb	4a72	14a246	1460hh	1464a	14616	SM46	dDl
l r 8 Ccmb	271	1a1	121	211	161	2 M42	dDl
l r 8 Ccmb	0072	1- 0	1 0	1- -	1a2	1hM8-	dDl
l r 8 Ccmb	0 72	hS	1S	1S-	1SS	hM26	dDl
l 8dnC	2 71	120Sh6aS	12ha- 6a	1- 24SSS0	12h60002	2M8a	dDl
l 8vr p	1S071	- - 4	4Sa1	- h06	- ha-	2M0	dDl
l 8vr p	1Sh71	- 0Sh	- 10	41 4	- hS-	6M	dDl
l nocmb	2- 72	a44a-	a2 6-	a4- Sh	a- 0a	1M8-	dDl
l TpnCTcmb	671	1h- h00	1hh a	1h0a10	1h011	1M4S	dDl
l TpnCTcmb	71	104024h	1 - h- 62	1 - S1aS	1 Saa 0	2M1	dDl
l m8mp	- 471	2h a2h	- S2S 2	- S2662	- S1Sh1	SM04	dDl
Ar pecmb	1ah71	1SS266-	1S 42a62	1S2SS064	1S- a66aa	4M1a	dDl
Ar pecmb	1ah72	41SS40S	4S6- 6 1	4116- 40	4Sh- 4hh	SM06	dDl
AGw8mb	2S- 71	1a- -	1- a	16S	1aSS	M4a	dDl
AGw8mb	2Sa71	- 642	- a1	- 4	- 0h2	- M4a	dDl
AdC	11 71	16S a	16- 00	1a6- 4	16S- 2	2M-	dDl
AdTwCcmb	4071	1- 6- 12	1- 0a04	1- 4S4S	1- ah0a	1M12	dDl
RpwCcmb	2- 71	64S0S	6a444	6a4 6	6aSSS	1M24	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tu wb r :J	N
5 8r CTI wb D8 :t&:J	9 y SU2- &	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a172	4a2aa	4412	4- hh4	444ah	1M46	dDI
YTTr pecmb	10271	1024a	1 2h6	104ha	1060h	- M11	dDI
YTTr pecmb	10272	16h	2h2	014	- h2	- M41	dDI
YTTr pecmb	10671	12 2-	126S6	1- 416	12h4	- M4-	dDI
YTTr pecmb	10672	16hSS	16S01	1664h	16a4S	2M40	dDI
YTTpcmb	h71	1- 66 S1-	14046- 46	1- 1026	14Sh 6ha	4M8a	dDI
YTTpcmb	h72	14- - - 40	1- a4446	14Sa642	1- h0 12	2M6	dDI
ZdCd	6672	61 - 1	6- 424	61 h	62- 4	1M44	dDI
ZqpdnCcmb	hS71	1- 10h6	1- 64- 2	1- 44- S	1- 421h	1M0-	dDI
ZqpdnCcmb	h171	- 1S6S	- S2SS	2h44S	- S2- -	2M6	dDI

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23O2	36J49	3JO9O	3J139	333O6	O.96	cpw
Antimony	12101	6OJ	313	JOJ	311	14.OJ	cpw
Arwenic	37O2	43O	- 9-	422	42J	9.OJ	cpw
Bsrium	1- 701	64- 74	6- 727	661O7	64661	2.O4	cpw
Bsrium	1- 301	11O3JJ	116921	116217	114641	2.9-	cpw
BeryRium	901	632	311	679	6J1	4.OO	cpw
Biwmuth	2O901	631- 436	6646262	63OO244	66J6661	O.7-	cpw
Biwmuth	2O9O2	- 174JJ6	- 1- 3- J-	294616-	- O39433	- .36	cpw
Bromine	J101	4636	464-	4- 6J	4762	- .31	cpw
Csdmium	1OJ01	37	1OJ	37	J6	22.- 7	cpw
Csdmium	1O601	- J36	- 371	4O13	- JJ1	- .44	cpw
Csdmium	11101	39J	634	366	346	J.79	cpw
CsRium	4- 01	32O9-	3- JO9	3- 14O	3- O14	1.1J	cpw
CsRium	4401	124O3O1	12J1273	1234O99	1267- 72	1.31	cpw
Csrbon	1201	269O397	2693193	2373- 13	23171O-	1.- 7	cpw
Csrbon	12O2	- 1J6J	- 2J29	- - O46	- 27J1	1.92	cpw
ChRorine	- 701	1O- 93J27	1O431O9-	1O- J4O34	1O413664	O.47	cpw
ChRorine	- 7O2	6966J	69663	6J3O4	69- 46	O.JO	cpw
Chromium	72O2	71OJ	724J	7- 61	72- 9	2.42	cpw
CobsRR	79O2	7- 21	7- 91	71J1	729J	2.O2	cpw
Copper	6- O2	12- 32	12749	12676	12726	1.14	cpw
Dywprowium	1760 1	17136	17679	17- 13	17- J4	1.62	cpw
Dywprowium	1762	6J12	6- 77	63J7	6671	- .J6	cpw
Erbium	1640 1	114- O	11793	117JO	117- 6	O.JO	cpw
Erbium	1642	4331	4661	476J	4666	2.1J	cpw
GsdoRRium	16O01	1- 999	1- 6- 2	1- 316	1- 3J2	1.4O	cpw
GsdoRRium	16O02	647J	6632	6772	6761	1.6-	cpw
HoRRium	1670 1	9J74O41	979O33-	972J4O6	967334O	1.39	cpw
HoRRium	1672	41O29- 2	41JJO49	- J276- 3	4O- JJ3-	4.69	cpw
Indium	1170 1	6973164	3O77611	3OJ919-	3O- - 9J9	O.9J	cpw
Indium	1172	9- 1412	942971	JJ262-	91J997	- .4J	cpw
Iron	74O2	- 1319O	- 241- 1	- 226- 7	- 21- 19	1.14	cpw
Iron	76O2	61764J9	6267772	627- 192	6227O3J	O.96	cpw
Iron	73O2	1471JJ	14JJ42	143O96	143O42	1.24	cpw
Krypton	J- 01	2J3	- O4	233	29O	4.7J	cpw
Lesd	2O601	94417	96- - 4	936- 2	96123	1.6J	cpw

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmple ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
Cllent Ssmple ID :	MHOF2- L	Dilution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFile Nsme :	O32AREF.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	3J467	JO236	JOJ71	39J64	1.76	cpw
Lesd	2OJ01	- 3- - 96	- 37374	- J1444	- 36J67	1.1O	cpw
Lithium	601	2461J99	24- 6J4J	272- 24J	243- 99J	1.JO	cpw
Msgnesium	24O2	1- 3- O2	1- 673J	142227	1- J3O2	2.22	cpw
Msngsnese	77O2	J1O67	J- 466	J294-	J2491	1.7-	cpw
Molybdenum	9401	96J3	9- 2J	977-	972-	1.9O	cpw
Molybdenum	9701	913	3J-	J92	J64	J.2O	cpw
Molybdenum	9601	26O9	2279	27- 4	2463	3.43	cpw
Molybdenum	9301	4OJ	763	77O	7OJ	13.12	cpw
Molybdenum	9J01	1427	1437	12OJ	1- 3O	1O.- 7	cpw
Neodymium	17O01	26JO1	233- 6	23- O1	23239	1.32	cpw
Neodymium	17O02	J2O9	J43-	J4J9	J- 9O	1.J3	cpw
Nickel	6O02	2JO3	- O24	2314	2J4J	7.79	cpw
8hosphorus	- 102	1O63	992	97O	1OO-	7.9O	cpw
8otssium	- 902	J- O9J	J- 291	J- 6O1	J- - - O	O.- O	cpw
Rhodium	1O- 01	69222- J	3O121J2	637174-	6J97- 21	1.92	cpw
Rhodium	1O- 02	- 146- 92	- 1471J4	297- - - 6	- OJ16- 3	- .61	cpw
Scsndium	4701	4463717	4716979	4434- 22	44J6267	O.6O	cpw
Scsndium	4702	142- - J	142J67	1- 4666	1- 9976	- .2J	cpw
Selenium	J201	7	04-	017	01J	01- 6.2J	cpw
Selenium	3302	4O	- 3	- 3	- J	7.O9	cpw
Selenium	3JO2	23	- 4	44	- 7	24.41	cpw
Silicon	2J01	24- 7413	24324O7	2747- 2-	24J4- J2	2.27	cpw
Silver	1O301	J7J	J42	J27	J42	1.9J	cpw
Silver	1O901	JJ-	JOJ	JOJ	J- -	7.2O	cpw
Sodium	2- 02	2772-	27- 9J	27- J9	274- 3	O.29	cpw
Strontium	J601	- 43O2	- 624J	- 6OO6	- 7672	2.- -	cpw
Strontium	JJ01	- OO- 33	- O919-	- O4JO6	- O4392	1.47	cpw
Sulfur	- 401	26- 169	2792- O	2733JJ	26OO62	1.O3	cpw
Terbium	17901	9911714	93676- 9	9JJ66OO	9J747J7	O.39	cpw
Terbium	17902	4O46911	4O2- 626	- 341997	- 9- 3711	4.- 1	cpw
Thallium	2O- 01	463	7J-	437	7OJ	12.JO	cpw
Thallium	2O701	9J-	1O92	1OOJ	1O2J	7.72	cpw
Tin	11J01	- 3O9	- 6O9	41J4	- J- 4	J.O1	cpw
Titsnium	4301	241O4	24322	247- O	24472	1.29	cpw
Ursnium	2- J01	116O6	12O3-	1214J	11942	2.46	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	710 2	J- 6-	J- 9-	J- O6	J- 74	O.7-	cpw
Ytterbium	1320 1	- 413	- 213	- 271	- 297	- .27	cpw
Ytterbium	1320 2	1411	142J	1611	14J-	3.4J	cpw
Ytterbium	1360 1	- 179	- - 27	- 1J4	- 22-	2.39	cpw
Ytterbium	1360 2	11J76	12276	11- 23	11J1-	- .94	cpw
Yttrium	J90 1	12JJ3O79	12JJ329O	12336OO9	12J7O12O	O.7O	cpw
Yttrium	J90 2	127- 132	123974J	119412O	12422JO	- .72	cpw
Zinc	660 2	12OO7	113OJ	11J62	11J7J	1.27	cpw
Zirconium	9O0 1	24O6-	24131	2434J	24- 23	1.71	cpw
Zirconium	910 1	71O1	774-	766O	74- 7	7.42	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCcmb	2072	hS004N	hS6 2	hSS1hN	hS4 66	SMM-	dDw
qCTb nCE	12171	112461	111N4S	1S 0 S	111- 64	1M2h	dDw
qpwr Ccd	0h72	- 610	- 024	- N14	- 01N	2M0h	dDw
Bspcmb	1- h71	1SNh2	S02 2	Sh NN	SNS44	SM2N	dDw
Bspcmb	1- 071	1044622	16 h002	10S22Sh	10142SS	1MMh	dDw
Br pEPPmb	71	1 hN2	1 26N	1N0N-	1 211	2MS	dDw
Bcwb mTG	2S 71	6 2666	0124N01	0Sh6N- 6	0S- 612h	1M4-	dDw
Bcwb mTG	2S 72	- 26 h60	- 2- NS-	- 2- - - 0	- 240hN	SMM	dDw
Bpmb dCr	N171	614-	624-	6220	62S4	SMM6	dDw
5 sob cmb	1SN71	1- 2	1221	120	1206	4M2h	dDw
5 sob cmb	1S671	h- 4-	h66N	hN1N	h61S	4M-	dDw
5 sob cmb	11171	164- h	164 -	16- Sh	16411	SMM	dDw
5 sPdcmb	4- 71	4h4- 4h	4h02N6	44NN66	4h- 4	SM4	dDw
5 sPdcmb	4471	06N40S6	0NS6N1N	04 144N	066S 1	2MSN	dDw
5 spenC	1271	4- - N14	4h01N6-	4h 1h4S	4hSSh10	- M-	dDw
5 spenC	1272	h6 61	hh1 6	hh246	hhNS1	1MMS	dDw
5 GPmpdCr	- h71	1 61SSh-	24SN6242	26- 6 N2	2- - 64426	14M00	dDw
5 GPmpdCr	- h72	2S61h-	21h- 06	22S4S1	21- 00	- MN	dDw
5 Gpmb cmb	h272	h1hN	6S6-	4- - h	h1Nh	SM1	dDw
5 nesPT	h 72	- 4hN00	- 4h4S-	- 41SS	- 44S 6	SM0N	dDw
5 nDDr p	6- 72	1 - 1 S	1 - 2S4	1 - - - 0	1 - 244	SMS4	dDw
&EwDpnwcmb	1h671	- 20h	64S6	42- 1	46- N	1M0S	dDw
&EwDpnwcmb	1h672	4SS16	- N 0S	- 221	- 4S2	1M	dDw
Fpecmb	16471	014 -	0- 2- h	0S0 0	01N42	1M0h	dDw
Fpecmb	16472	2N1NS	2N- N0	2N4h4	2N- 4S	SMMS	dDw
HsonPdCcmb	16S71	N2- h4	N4N1	N1 4	N- Sh6	1MMh	dDw
HsonPdCcmb	16S72	4S40h	- 64	- 0 2S	- - 4N	- M1	dDw
y nPb cmb	16h71	06N0S-	N6 NN6	00h26	NS461	SMMN	dDw
y nPb cmb	16h72	41 - 4 N	410 4 0	416h 4	410 66-	SM-	dDw
tCocmb	11h71	0SN0S00	026 22	01Nh1N4	01NS02N	1M20	dDw
tCocmb	11h72	hh2 6	h- 44-	- NSh	4N - 2	1MSS	dDw
tpnC	h472	2124SN-	21414N-	21- h 06	21- - N40	SM42	dDw
tpnC	h672	- N0S24	- N1062h4	- N4222- 0	- N4- - 66-	SM0	dDw
tpnC	h072	2S14S	1 S- 1	14NS0	10 -	SM1	dDw
KpEDTnC	N- 71	- 46	- - 4	- N	- h6	NMS	dDw
Lr so	2S671	6S426	614 S	h h002	6ShS1S	1MM	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S071	hS- - 2N	hS- 0 0	4 1446	4 h24	1M4S	dDw
Lr so	2SN71	2- 44- - 4	2- N- 60N	2- 61646	2- 6- 21	SMM-	dDw
LdTGmb	671	2h20S14	2hShNhh	2h- hh6	2h22N1-	SM01	dDw
9 sgOr wcmb	2472	N6S20-	Nh2216	Nh4S41	Nhhh1S	SM4	dDw
9 sOgsOr wr	hh72	h Sh2	h - 04	hN6N0	h S- N6	SMMN	dDw
9 nPEeor Omb	471	hh 0	h S1S	hh6S4	h6N0S	- M2N	dDw
9 nPEeor Omb	h71	4Nh1	4626	4Nh	400	2M00	dDw
9 nPEeor Omb	671	1- N04	14h2h	144hS	142N-	2M4	dDw
9 nPEeor Omb	071	- SSS	20N4	2 hS	2 11	- MS	dDw
9 nPEeor Omb	N71	01S2	066	0NN6	0hh2	hM6	dDw
u r noEb cmb	1hS71	16 40N	10- 2h1	10SN- N	1011N	1M12	dDw
u r noEb cmb	1hS72	h10S-	h14Sh	h1- 41	h14N-	SM0	dDw
u cdkr P	6S72	1S62- S	1Shh	1Shh- N	1Sh0N	SM6	dDw
8 GhwDGhpmw	- 172	hh- h	hN- h	h64-	h601	2M6N	dDw
8 nTswwcmb	- 72	46- N -	40S- 6N	4h hS	464h S	1MMN	dDw
. Ghocmb	1S- 71	0114S02	0204102	0S64 1h	01h1Sh-	1MM-	dDw
. Ghocmb	1S- 72	- 2N 6h2	- 1N00h1	- 112646	- 1 66N-	2M0N	dDw
I dsCocmb	4h71	4h 1 N	46SS4 4	406662-	46h- S- h	2M12	dDw
I dsCocmb	4h72	14h h1	14- 66	14- 40h	144464	SM1	dDw
I r PCcmb	N271	2226	22NS	21 2	22- -	1MMN	dDw
I r PCcmb	0072	2- -	2h0	220	2-	6MM	dDw
I r PCcmb	0N72	- 21	- 6	- 12	- - 4	M10	dDw
I dPdnC	2N71	1hN- 02 N	1h- 106h6	14N641S1	1h- - 6Nh	- M10	dDw
I dPr p	1S071	60N- 4	60hN-	6h4 N	66 02	1M2	dDw
I dPr p	1S 71	64661	64242	642- 4	64- 0	SMMN	dDw
I nocmb	2- 72	6 - 4	0102	66 4h	6 - 41	- M4h	dDw
I TpmCTcmb	N671	2220h1	210620	22hS11	2210 6	1M01	dDw
I TpmCTcmb	NN71	2S2N02	2S44- 2S	2S1 - hS	2S- SNSS	SM02	dDw
I mPmp	- 471	- S-	- S2 N6	- S1h6h	- S2NhS	SM4S	dDw
Ar pecmb	1h 71	1S110SN2	1S2N6621	1S1hS41S	1S1N40S4	SMMN	dDw
Ar pecmb	1h 72	41- S- N	4S10N 6	4S02- - 1	4S0- h42	1MMN	dDw
AGsPmb	2S- 71	h - S-	h 11S	h0h2N	hN640	1M06	dDw
AGsPmb	2Sh71	14266h	144S62	14SS4-	1422h0	1M4-	dDw
AdC	11N71	2SN2h	2Sh- 2	212SS	2SNh2	1M01	dDw
AdsCcmb	4071	1h2SSS	16S 0	1hS- 41	1h4446	- M01	dDw
RpsCcmb	2- N71	020- h	020- 4	02 4-	02NS4	SM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU2- I	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:u sb r :J	S0- q . FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h172	10 2N4	10 242	10N4N2	10 SS-	SM2h	dDw
YTTr pecmb	10271	1 NS0	1 1h6	1 S14	1 - 26	2M1	dDw
YTTr pecmb	10272	hh	2S	4N0	41N	1M6	dDw
YTTr pecmb	10671	1hS 2	140 2	14hSN	140 N	1M0	dDw
YTTr pecmb	10672	16N-	16016	16Nhh	16NS-	SM4h	dDw
YTTpcmb	N 71	1- 4 h6 0	1- 46h4-	141SN612	1- NhS2N4	2M2	dDw
YTTpcmb	N 72	142- h22	14116 6	1- 046-	14S- 2N6	1MM2	dDw
ZdCd	6672	126S41	120hNh	12NNN-	120hS-	1M12	dDw
ZqpdnCcmb	S71	14 01	140N 0	14h h-	140Nh6	1M20	dDw
ZqpdnCcmb	171	- - 6SS	- 4- -	- - - 04	- - 0N	1MMN	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4y8y88	hSy411	4y2SS4	hSS1- 4	1U0h	ql s
c n&AmonE	12171	24- 4	2- 0h	24y2	24- 4	2U4S	ql s
c rsenAq	0h72	1880	1yyy	18y6	1y28	- U2-	ql s
BarAum	1- h71	- 08846	- 8- 244	- 81h10	- 812S2	SUh8	ql s
BarAum	1- 071	604h- -	606211	66S146	60S2y0	1U 2	ql s
BerEIlAum	y71	4yS6	486h	4y08	4y16	1U16	ql s
BAsmu&G	2Sy71	6y6h1- 2	6y6Shy8	01y0264	0S4Syy8	1Uy2	ql s
BAsmu&G	2Sy72	- 2y- 8h2	2hS8688	- 12- 841	2y0h46S	1- U88	ql s
BromAne	8171	6y20	64h2	6h- h	66- 8	- U82	ql s
RaOmAum	1S871	2- -	2SS	242	22h	yU8S	ql s
RaOmAum	1S671	44hy	4h18	4606	4hh1	2U46	ql s
RaOmAum	11171	1824	1yyy	1808	1ySS	4U02	ql s
RalqAum	4- 71	226280	22y241	228611	228S46	SU68	ql s
RalqAum	4471	- 818S8-	- 8hy121	- 884S68	- 8h- 0h0	SU86	ql s
Rarbon	1271	4- 148- 6	44hyS- -	464S- 0S	440141-	- U6h	ql s
Rarbon	1272	hh2h4	h4- 18	h61S8	hh220	1U62	ql s
RGlorAne	- h71	221y4180	2hh1h0S6	20y8- 8y6	2h2- 126-	11Uh1	ql s
RGlorAne	- h72	21Sh40	210- 01	221- 04	2164- 1	2Uh-	ql s
RGromAum	h272	20000	28442	26408	20h66	- U62	ql s
Robal&	hy72	- 2h- 4	- 2y2h	- 2Sy6	- 2h18	1U20	ql s
RoI I er	6- 72	0h- 6y	048S6	041Sy	04061	SU84	ql s
t EsI rosAum	1h671	1S6440	1S0y20	1SyS8h	1S082S	1U2-	ql s
t EsI rosAum	1h672	44Sh2	440Sh	4421-	44- 2-	SU00	ql s
. rbAum	16471	0y228	811y8	088S8	0y04h	1U6S	ql s
. rbAum	16472	- 122-	- 2S2h	- 1h08	- 16Sy	1U20	ql s
HaOolAnAum	16S71	y2602	y46h-	y166h	y2yy0	1U6-	ql s
HaOolAnAum	16S72	446h8	4h0y2	4- 4- 0	4462y	2U64	ql s
9 olmAum	16h71	1SS8- hS-	1SS2SS80	yyS66S4	1SSS- - y8	SUyS	ql s
9 olmAum	16h72	42S61h2	- 2SS28S	4S- 6048	- 814- y-	14U12	ql s
DnOAum	11h71	0102606	0106- y2	0S888h0	014hy0h	SU6y	ql s
DnOAum	11h72	y6- - 0h	016h- 6	y241S4	868SSh	1hU28	ql s
Don	h472	2S0h- 02	2S44621	2Sh206y	2Sh0h80	SU00	ql s
Don	h672	- 04660- 8	- 0y6268S	- 6- h1- 84	- 026S268	2U21	ql s
Don	h072	880106	8868yS	8668hS	88S- S6	1U 2	ql s
KrEI &on	8- 71	- - y	- 60	- 6S	- hh	4U2S	ql s
LeaO	2S671	4yy2- 6	h1216h	4y828-	hS- 228	1Uh4	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	410y- S	418888	412h20	416448	SU82	ql s
LeaO	2S871	1yh2yhh	1y88282	1yh1hy0	1y64208	1US6	ql s
LA&GAum	671	2401y00	2h8y14h	2h2h- 24	2h28816	2U2	ql s
5 agnesAum	2472	64- 864	66S22S	64SSSh	648S- S	1U66	ql s
5 anganese	hh72	4488- y	44y- 20	44SShS	446S02	1U10	ql s
5 olEbOenum	y471	- - 8hy	- - 16h	- - 0- -	- - h86	1U1S	ql s
5 olEbOenum	yh71	- 2hy	- 4Sy	- 4- 4	- - 60	2U81	ql s
5 olEbOenum	y671	y1S-	y462	yS0S	y212	2U16	ql s
5 olEbOenum	y071	2S84	22SS	2260	2184	4U2h	ql s
5 olEbOenum	y871	h- 68	h8h1	hhh1	hhyS	4U10	ql s
NeoOEmAum	1hS71	1y- 811	1y- 602	1yhhSS	1y4- 28	SUh2	ql s
NeoOEmAum	1hS72	hy6h2	h00h0	h82- 2	h8h40	1U68	ql s
NAqkel	6S72	1h2S8	1hy4y	1hhSy	1hhhh	2U4S	ql s
PGosI Gorus	- 172	- 8S1	- 6y2	- - 10	- 6S-	0US4	ql s
Po&assAum	- y72	- 14006	- 1S814	- S- 288	- Sy626	1U88	ql s
CGoOAum	1S- 71	018- 681	0- SSy41	018262S	0222414	SUy4	ql s
CGoOAum	1S- 72	- - 10S0y	24h- 4h6	- Sy- 026	2yh40h-	1hU10	ql s
pqanOAum	4h71	4648- 8S	40ySh1S	4684016	40S086y	1Uh0	ql s
pqanOAum	4h72	146hy-	11S10S	1- 88y-	1- 188h	14Uhh	ql s
pelenAum	8271	1yS	140	14y	162	14Uy2	ql s
pelenAum	0072	160	2S0	1y-	18y	1SU08	ql s
pelenAum	0872	1- 8	16S	126	141	12U2S	ql s
pAAqon	2871	121002- 6	12448846	122h8h22	122y4868	1U1-	ql s
pAver	1S071	4006	hSh1	46hy	482y	4U10	ql s
pAver	1Sy71	464-	4868	484-	4084	2Uh8	ql s
poOAum	2- 72	h220S	h2h12	h1h2h	h21S2	SUyy	ql s
p&onA&um	8671	2S0S12	21S80S	21226h	21SS4y	1U-S	ql s
p&onA&um	8871	1yS1226	1y04Shy	1yhS882	1y42Sh6	1Uy2	ql s
pulfur	- 471	20- 2y2	20012y	206yS2	20h004	SU08	ql s
i erbAum	1hy71	1S1y4y2h	1S22h6y6	1SS22- h8	1S14066S	1US8	ql s
i erbAum	1hy72	418220y	- 11426-	- y- 86Sh	- 04hS4y	14Uyh	ql s
i GallAum	2S- 71	21SS	24- 4	1y10	21hS	12U18	ql s
i GallAum	2Sh71	h28h	h41S	hS26	h24S	- U0-	ql s
i An	11871	21806	2226S	22h- 6	22224	1U4y	ql s
i A&anAum	4071	12y1h-	128018	128666	128846	SU21	ql s
MranAum	2- 871	8SSh-	82- hy	8S8yy	811S4	1U44	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	44208	4- y- 4	424S-	4- h- 8	2U2y	ql s
Y&erbAum	10271	21044	21hh1	212S1	214yy	1U28	ql s
Y&erbAum	10272	yy- 2	1Shy-	1S121	1S21h	- U4	ql s
Y&erbAum	10671	1h406	140hS	1h468	1h2- 1	2U04	ql s
Y&erbAum	10672	106h6	1h- hy	102- y	160h2	0U1	ql s
Y&&Aum	8y71	1- yS8y62	1- 8221Sh	1- 881042	1- 80Sy- 6	SU2	ql s
Y&&Aum	8y72	14y8- y2	1118- h0	1- 10Syh	1- 11281	14UhS	ql s
ZAnq	6672	h26y8	h4y6S	h- 2yS	h- 64y	2U1y	ql s
ZAqonAum	yS71	86yy0	862h8	8hy4S	86- y8	SU6-	ql s
ZAqonAum	y171	18y8S	1y6y8	186- 8	1y1Sh	2U8-	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUND

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
c lumAnAum	2072	4hhh66	4h- C01	CSSh40	4h8161	SN8S	ql s
c n&AmonE	12171	CS4-	4hS1	CC6S	C168	6N01	ql s
c rsenAq	0C72	181S	1000	10S8	106C	2N1C	ql s
BarAum	1- C71	- C0C82	- 6426-	- 6- 6hS	- 6184C	1N82	ql s
BarAum	1- 071	6- 40S8	6- 48h6	6- 8C84	6- 6S6-	SN14	ql s
BerEIAum	h71	1h81	2S16	1h42	1h8S	1N86	ql s
BAsmu&G	2Sh71	C- 124S1	660618C	6840- C0	6208648	1- N4S	ql s
BAsmu&G	2Sh72	- - S0S08	- 20h- 24	- 24- S16	- 20640-	SN18	ql s
BromAne	8171	06- 6	82S-	8- 08	8S02	4N81	ql s
5 aOmAum	1S871	20C	2C4	- 0C	- S1	21N4-	ql s
5 aOmAum	1S671	- C42	42S1	- h60	- hS-	8N0C	ql s
5 aOmAum	11171	- Ch6	- 8Ch	- Ch-	- 68-	4N16	ql s
5 alqAum	4- 71	1606- 4	16h4S0	16hShC	168012	SN06	ql s
5 alqAum	4471	28- 2CC8	28hh1- C	2882048	2801481	1N21	ql s
5 arbon	1271	C8262CS	Ch0C18h	611- C2S	Ch016C-	2N41	ql s
5 arbon	1272	0- S04	02h2-	0- - SS	0- Shh	SN26	ql s
5 GlorAne	- C71	22- 6068C	262- 1h26	282C2121	2C610244	11N60	ql s
5 GlorAne	- C72	2S8601	21- 416	210- 48	21- 14C	2N84	ql s
5 GromAum	C272	4- 442	42h14	4- 102	4- 106	SN01	ql s
5 obal&	Ch72	2- 44-	2- 48h	2- 4h6	2- 406	SN12	ql s
5 ol I er	6- 72	8h41h	80411	8842-	88418	1N14	ql s
t EsI rosAum	1C671	C- 44h	C2- 28	C- SC6	C2h4C	1N80	ql s
t EsI rosAum	1C672	21284	21Ch1	2S0C-	212Sh	2N8S	ql s
FrbAum	16471	4S262	4SC01	41482	4S002	1N06	ql s
FrbAum	16472	1Ch0-	1C82-	16ShS	1Ch62	SN84	ql s
HaColAnAum	16S71	4Ch8S	461- h	40Sh2	464S4	1N1S	ql s
HaColAnAum	16S72	214S0	211- 0	211SS	2121C	SN0h	ql s
y olmAum	16C71	04C2- 41	h2hh4- -	h60- hS4	88S8CCh	1- N0S	ql s
y olmAum	16C72	42- C0S6	416S048	42466h0	4214- 84	1N11	ql s
DnOAum	11C71	CCCh01	68682hS	0S401S0	64h10hS	12N01	ql s
DnOAum	11C72	h- 8628	h62- - C	h4- hS8	h482hS	1N11	ql s
Don	C472	10- 8h24	102hS4h	10Sh4- 6	102C8S-	SN80	ql s
Don	C672	- Sh48SC0	- SC84C28	- S1h- S08	- SC0C221	1N2-	ql s
Don	C072	0216S2	026081	021421	02- 268	SN42	ql s
KrEI &on	8- 71	- hC	- 1C	- 1h	- 4-	1- N10	ql s
LeaO	2S671	h4h404	hC22- 2	hCS84-	hCS84h	SN1C	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
LeaO	2S071	0hC- C-	0h- 411	0h4121	0h42hC	SM12	ql s
LeaO	2S871	- 86h4- -	- h- 82SC	- 80SCCS	- 8h20- S	1N31	ql s
LA&GAum	671	2Sh- 62h	2421- - 4	2C1hh61	2- 44h0C	hM02	ql s
9 agnesAum	2472	- 6hhh4	- 6- 88S	- 680h0	- 60CC0	SM38	ql s
9 anganese	CC72	C0h8CS	C81648	C0h02C	C8S4S8	SM1h	ql s
9 olEbOenum	h471	hh80	1S621	h80h	1S162	- M1C	ql s
9 olEbOenum	hC71	40C1	C- h-	4068	4h0S	0M6	ql s
9 olEbOenum	h671	628C	68C2	68C2	666-	4M1	ql s
9 olEbOenum	h071	- - 10	- 2Sh	- - 26	- 284	1M8	ql s
9 olEbOenum	h871	0011	0000	8S1h	08- 6	2N30	ql s
NeoOEmAum	1CS71	h2h28	hSh2S	h- - 2-	h2- hS	1Mh	ql s
NeoOEmAum	1CS72	206hh	2080-	20- 88	206C-	SM3h	ql s
NAqkel	6S72	12SS2	110- 8	11- S1	1168S	- N3-	ql s
PGosI Gorus	- 172	C1Sh	CSS1	4h- 4	CS1C	1M06	ql s
Po&assAum	- h72	- 1444C	- 141SC	- 14h22	- 144h1	SM1-	ql s
. GoOAum	1S- 71	C4C- 1Sh	68S1- 16	0S448S4	64- - S06	1- M-	ql s
. GoOAum	1S- 72	- 284- 4h	- 216h81	- 241C02	- 2406- 4	1N3C	ql s
pqanOAum	4C71	- C2h044	420C04C	4C0hh8h	41284h-	1- N3h	ql s
pqanOAum	4C72	14S21C	142102	14208C	141024	SM1C	ql s
pelenAum	8271	11h	122	1S8	116	6M01	ql s
pelenAum	0072	110	8S	1- -	11S	24M31	ql s
pelenAum	0872	82	0S	8h	8S	11M16	ql s
pAAqon	2871	8h14868	8h18CC-	8hh2868	8h42Sh6	SM4h	ql s
pAver	1S071	1Ch- C	16- C2	1C04-	16S1S	1M14	ql s
pAver	1Sh71	146h2	1C12C	1C0- 4	1C184	- M4C	ql s
poOAum	2- 72	48140	460Sh	48024	4086S	2M10	ql s
p&ona&um	8671	210- S1	210hCS	21022h	2104h-	SM18	ql s
p&ona&um	8871	2SC682h	1h88668	1h66C24	2SS4SS0	2MC	ql s
pulfur	- 471	2084SC	2814- 0	2814S2	28S41C	SM02	ql s
i erbAum	1Ch71	08488- 8	h610S8S	h0- 22C0	hS66SC8	11M04	ql s
i erbAum	1Ch72	4S82222	41C208h	4S- h- 04	4Sh1462	1M4S	ql s
i GallAum	2S- 71	1642	1060	18SS	10- 6	4M31	ql s
i GallAum	2SC71	- 826	- Ch2	4126	- 848	6M1C	ql s
i A	11871	2h4S0	2hC04	2hS4S	2h- 4S	SM1-	ql s
i A&anAum	4071	1- 1S02	1- SCh-	12h1h8	1- S288	SM0C	ql s
RranAum	2- 871	C- 4SC	C- - 88	C2h4C	C- 246	SM4h	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAn&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
VanaOAum	C172	CSC02	4h816	C11S4	CS4h8	1M28	ql s
Y&erbAum	10271	12- h8	12- O6	122O6	12- - 0	SM0h	ql s
Y&erbAum	10272	C024	O6S1	ChC0	C061	- M14	ql s
Y&erbAum	10671	hC2h	8hS-	h10S	h2S1	- M41	ql s
Y&erbAum	10672	146h2	14C0C	14881	14016	1M3C	ql s
Y&&Aum	8h71	1S4C04C0	12h6C0Sh	1- 1h62- S	122S646C	12M44	ql s
Y&&Aum	8h72	1- S2- 66	1- 6hCSC	1- S- 4S2	1- 2CSh1	2M1S	ql s
ZAnq	6672	h4C1-	h4h86	h4h4h	h4816	SM28	ql s
ZAqonAum	hS71	1hhh8	2S04h	1h4- h	2SS62	- M28	ql s
ZAqonAum	h171	484-	4426	4406	4C81	4M10	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8 spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	41J26h	414S16	4S6JSN	411h- 1	1M1J	dDw
qCTb nCE	12171	- SSS	- 1Sh	2NJh	2hNh	4M2S	dDw
qpwr Ccd	0J72	14J6	1J1S	1410	1461	- M2S	dDw
Bspcmb	1- J71	26N2hJ	26NS1h	266NNh	2600- J	SM2N	dDw
Bspcmb	1- 071	464064	460J- 6	402N02	46N- hS	SMMN	dDw
Br pEPmb	h71	1J1S	16S4	1626	1JNS	- M1S	dDw
Bcwb mTG	2Sh71	6N- h- 4-	6hN6221	6N4S400	6NNN6NS	1M4-	dDw
Bcwb mTG	2Sh72	- 1JS0SN	- 2JhhNN	- 204N- S	- 22NJSN	2M1S	dDw
Bpmb oCr	N171	021S	0S44	0444	02- -	2M0N	dDw
5 sob cmb	1SN71	2SN	242	- 10	2J6	21M01	dDw
5 sob cmb	1S671	- N60	4S42	42- 4	4S4N	4M-	dDw
5 sob cmb	11171	- JJ4	- 1NJ	- - 0-	- - 01	JM46	dDw
5 sPlcmb	4- 71	1SJS6S	1S04- 2	1S4JS1	1SJ664	1M40	dDw
5 sPlcmb	4471	1NJ2S6N	1N6h2S-	1NS1S04	1N4S0N2	1M1-	dDw
5 spenC	1271	4S21S1S	4SN21- h	4SJh664	4SJ4201	SM06	dDw
5 spenC	1272	JSJh6	4h1JN	4N41-	4h- Nh	2M2J	dDw
5 GPmpcCr	- J71	2- 6h611S	20J010S-	2h04110h	20SS2hh0	11M4	dDw
5 GPmpcCr	- J72	224J40	2204h2	22h2J-	220Sh0	1M3J	dDw
5 Gpmb cmb	J272	- 6112	- 6S4h	- 6- 6-	- 610J	SM46	dDw
5 nesPT	Jh72	1hhh4	1hJJ0	1h0S0	1h0J-	1M12	dDw
5 nDDr p	6- 72	646S-	6JS42	64666	6400S	SM10	dDw
&EwDpnwcmb	1J671	41S- N	411- 1	- h4- 4	4SJ- 4	2MJ	dDw
&EwDpnwcmb	1J672	102SJ	1064J	10- 11	10- N0	1M12	dDw
Fpecmb	16471	- 1N22	- 220-	- 146-	- 1NJ-	1M2N	dDw
Fpecmb	16472	1- 24-	1- S6S	12h1S	1- S01	1M2N	dDw
HsonPCcmb	16S71	- J6J0	- 0261	- 0- J-	- 60J0	2M6S	dDw
HsonPCcmb	16S72	10J2J	10JNJ	16h21	10- 44	2M12	dDw
y nPb cmb	16J71	h60NNS6	hh16426	h22hJ00	h6SN20S	- M0-	dDw
y nPb cmb	16J72	- hNh221	42- S146	4106N04	41- 2SNS	- M36	dDw
tCocmb	11J71	6h6J- 46	02446N-	6Nh2NhN	0S- 4- Sh	2M64	dDw
tCocmb	11J72	h1S1h4	hJJ1Nh	h6JhSN	h4- 06-	- M1-	dDw
tpnC	J472	126JSS2	122J12h	122NJ0S	12- hJ60	1M0N	dDw
tpnC	J672	241NJ- - h	24- S60- S	2- Nh6J40	2412hJ- h	SMM0	dDw
tpnC	J072	J6h- 04	J04N1-	J6164-	J6N61S	1M16	dDw
KpEDTnC	N- 71	- 12	2h4	- 16	- S0	- M12	dDw
Lr so	2S671	N6J1N1	NJ212J	N61JN-	NJh62h	SM0N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	01hJ1h	01N616	01426N	01046N	SMlh	dDw
Lr so	2SN71	- 6S6hh4	- J64S0S	- J4J11-	- J02SJh	SMNh	dDw
LdTGmb	671	2JJS166	2J0SS1S	2J- 1S1S	2JJS- hJ	SM06	dDw
9 sgOr wcmb	2472	2JJS0S	2JJ122	24062h	2J26S0	1M01	dDw
9 sOgsOr wr	JJ72	6SSh6N	Jh- 1JS	JNh0Jh	Jh4626	SM10	dDw
9 nPEeor Omb	h471	0- 44	00S2	0J61	0J- 6	2M4S	dDw
9 nPEeor Omb	hJ71	- S60	- 2- 4	- 2N4	- 1hJ	- MJ	dDw
9 nPEeor Omb	h671	4S60	4J- 4	4J26	4- 06	6M1S	dDw
9 nPEeor Omb	h071	2S2J	1N2J	1N- 4	1NhJ	JM10	dDw
9 nPEeor Omb	hN71	4h1N	4Jh-	4026	404J	- M44	dDw
u r noEb omb	1JS71	04- SJ	0- hh6	0- N2-	04S42	SM-	dDw
u r noEb omb	1JS72	22- 4h	22- J2	21h1N	222S6	1M12	dDw
u dkr P	6S72	11- 4J	111S4	112J1	112- -	1MSN	dDw
8 GhwDGhpmw	- 172	- 1- 4	2h60	2NSh	2h0S	JM40	dDw
8 nTswwcmb	- h72	1h- - J0	1h4h64	1NN220	1h21N-	1MM-	dDw
. Ghocmb	1S- 71	6h1hJ6N	0SJ04S1	6NN0N- 6	6hJ4h- J	1M1S	dDw
. Ghocmb	1S- 72	- Sh4601	- 2h661N	- - S14N4	- 2- Sh24	- M0J	dDw
I dsCocmb	4J71	44N1004	46N1166	4JS4NhS	4JJJh4-	2Mlh	dDw
I dsCocmb	4J72	1- Nh4h	142S1N	1446N1	141NN-	2MS2	dDw
I r P Comb	N271	N1	120	h4	1S1	2- M0-	dDw
I r P Comb	0072	1SS	11-	0S	h4	2- MlS	dDw
I r P Comb	0N72	J1	6N	JN	Jh	14M4N	dDw
I dPdnC	2N71	1244S- JN	12JN6J1-	12- 66SS2	124642h1	SM1S	dDw
I dPr p	1S071	1- - 6J	141N-	141h1	1- h1-	- M41	dDw
I dPr p	1Sh71	1- 4S0	1- 06J	1- NJ0	1- 600	1M04	dDw
I nocmb	2- 72	JNSh1	J0hJ0	J0402	J0N4S	SM16	dDw
I TpnCTcmb	N671	144hJ1	1J112S	14h2h-	14N4J4	2M1-	dDw
I TpnCTcmb	NN71	120h- hN	12h6S0h	12N0SNh	12N0J22	SM0J	dDw
I mPmp	- 471	2JhS20	2J41- 4	2J- h- S	2JJ6h0	1M1-	dDw
Ar pecmb	1Jh71	h602NJJ	1S110JJ4	h0S110N	hN- SJ2h	2Ml-	dDw
Ar pecmb	1Jh72	- h- hh- N	41- 62J6	414S4Nh	4S0222N	2MM1	dDw
AGsPcmb	2S- 71	1- SS	1- 0J	1JSN	1- hJ	0Ml0	dDw
AGsPcmb	2SJ71	- S42	- - S1	- S60	- 1- 0	4Ml4	dDw
AdC	11N71	1hJ14	1hh2-	1h6S6	1h6N1	1MSh	dDw
AdSCcmb	4071	N2h- h	NJ402	N44h1	N4- S1	1Ml1	dDw
RpsCcmb	2- N71	41J- J	41- h-	4ShN-	41- S4	SM0h	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU26	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 16:2S:2J	&sTsUdP u sb r:	S06q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4S604	- N6h6	- N662	- h- 44	2M1-	dDw
YTTr pe omb	10271	h6S4	h12N	h0- 0	h4hS	- M0	dDw
YTTr pe omb	10272	4N0-	4JhJ	4JS1	46J6	4M16	dDw
YTTr pe omb	10671	026h	046h	0100	0- SJ	2M34	dDw
YTTr pe omb	10672	12010	141JN	1- 0NS	1- JJ2	JM1	dDw
YTTpomb	Nh71	120- 10- 4	1- 200h02	12N62h16	12hJ0J41	2M2S	dDw
YTTpomb	Nh72	12- h1- S	12h- - J1	1- 212S4	12N4J62	- M2J	dDw
ZdCd	6672	042- 0	0- hJ2	0- JhS	0- h26	SM44	dDw
ZqpdnComb	hS71	14h- -	1J6S1	1J2- 4	1J2J6	2M1h	dDw
ZqpdnComb	h171	- J- 4	- 010	- - 26	- J26	JM16	dDw

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	4- - SSS	42yy21	42- 8S8	428y1S	1U5y	ql s
c n&Amonh	12171	2E2E	2684	2EES	2E86	- U2y	ql s
c rsenAq	0E72	1- S8	1- 16	12- 0	1280	- U- 8	ql s
BarAum	1- E71	- 14S4-	- 14S- 6	- S4862	- 1Sy8S	1U0S	ql s
BarAum	1- 071	EE88E-	EE2y6E	E48- S0	EE- - 0E	SUy6	ql s
BerhllAum	y71	1681	10- 0	1026	101E	1U04	ql s
BAsmu&G	2Sy71	6y0402y	0- y6E8S	0004y24	0- 82S00	EU42	ql s
BAsmu&G	2Sy72	- 2S06E4	- - 48y84	- 2101EE	- 2E0y- 1	2U42	ql s
BromAne	8171	0800	8108	8E- 6	81y0	4U52	ql s
RaOmAum	1S871	21-	2E8	18-	218	10U- 4	ql s
RaOmAum	1S671	42Ey	4SS1	46Sy	42yS	0U12	ql s
RaOmAum	11171	2661	266E	28S4	201S	- U5S	ql s
RalqAum	4- 71	- 014EE	- 0- - 10	- 6040E	- 0S04y	SU8S	ql s
RalqAum	4471	626- 68y	6- 0y46y	61yE264	620y404	1U48	ql s
Rarbon	1271	E80400y	61S- Sy2	61408- 1	6S41yS1	2U42	ql s
Rarbon	1272	0- 620	0EEyE	0- 044	04- 22	1U4y	ql s
RGlorAne	- E71	2- 611- - 6	20- yy282	2yE1SE06	2684S- y8	11U14	ql s
RGlorAne	- E72	22- 1E2	226681	2- S066	226866	1U68	ql s
RGromAum	E272	- 01E2	- 6640	- 0- 12	- 0S- 0	SUy4	ql s
Robal&	Ey72	22EE1	226yE	22S10	22421	1UEy	ql s
RoI I er	6- 72	6E00E	664S8	66S0-	66S8E	SU48	ql s
t hsI rosAum	1E671	40210	46066	4E412	4646E	2U52	ql s
t hsI rosAum	1E672	1y6S1	18y1-	1y2S1	1y2- 8	1U8S	ql s
. rbAum	16471	- 66- E	- 686S	- E264	- 62E-	2U- 8	ql s
. rbAum	16472	14641	14688	14- - 1	14EE4	1U-	ql s
HaOolAnAum	16S71	4126E	41S- y	412- 1	4110y	SU- S	ql s
HaOolAnAum	16S72	2S2Ey	1y60E	1yES8	1y814	1Uyy	ql s
9 olmAum	16E71	1SS1204-	1SSE- 8E0	11- ySy26	1S48E842	0U48	ql s
9 olmAum	16E72	416SS8-	4180144	4S448- y	41- S68y	1U8-	ql s
DnOAum	11E71	0- 0E0yy	0466180	8Sy- y62	064E- 16	EU12	ql s
DnOAum	11E72	y6S- S4	yE- Ey6	y40486	yE- 0yE	SU60	ql s
Don	E472	1- 88000	1- 0SE- E	1- 8E6S4	1- 816- y	SU01	ql s
Don	E672	2ES- 0- Ey	24E082E-	24080448	248S1S2S	SUy-	ql s
Don	E072	6SS442	E8y18y	E8y- 0S	Ey- SSS	1U5y	ql s
Krhl &on	8- 71	- - E	- 40	281	- 21	1SUy6	ql s
LeaO	2S671	420S0-	4- 0- 82	4212S8	428EE4	1Uy1	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
LeaO	2S071	- E0114	- 64y- 1	- 44S44	- EE- 6-	2Uy0	ql s
LeaO	2S871	160yy62	10SE80S	16- 424E	160- - Ey	2U10	ql s
LA&GAum	671	246- 801	2E88811	28228y6	262E1y-	6Uy4	ql s
5 agnesAum	2472	68S- yE	68864y	60E062	6816S2	SUy6	ql s
5 anganese	EE72	- - 82S0	- - 6444	- - - - y0	- - 6S16	SU02	ql s
5 olhbOenum	y471	yy0S	1SS2y	1S- y6	1S1- 2	2U28	ql s
5 olhbOenum	yE71	2y10	2y42	28ES	2yS-	1U6-	ql s
5 olhbOenum	y671	4068	4606	4- 10	4E80	EU1y	ql s
5 olhbOenum	y071	1y0E	18y2	1042	180S	6U-	ql s
5 olhbOenum	y871	4ES1	4484	40S1	4E62	2U64	ql s
NeoChmAum	1ES71	8S6- E	81144	0yyES	8SE06	SU04	ql s
NeoChmAum	1ES72	24y80	244E6	2- 0y8	2441-	2U44	ql s
NAqkel	6S72	124- 6	1220E	12E0y	124- S	1U22	ql s
PGosI Gorus	- 172	E01S	EyE1	E468	E01S	4U2-	ql s
Po&assAum	- y72	4SS1S6	- y10y4	- y4y- y	- yE61-	1US6	ql s
CGoOAum	1S- 71	016002y	020- EyS	0yE0S22	0466114	EU04	ql s
CGoOAum	1S- 72	- 218626	- 2S0E40	- 282y14	- 2- 6- 62	1U26	ql s
pqanOAum	4E71	4620E81	4680228	E2yS0- E	4868E1E	0UE4	ql s
pqanOAum	4E72	1440S4	14- 26S	14SyS1	142yEE	1U4	ql s
pelenAum	8271	116	82	166	122	- 4U6-	ql s
pelenAum	0072	6-	8-	y0	81	2SU6y	ql s
pelenAum	0872	80	06	84	82	6Uy1	ql s
pAAqon	2871	y1- E- 1y	y1Ey08E	8y4S242	yS0844y	1U-	ql s
pAver	1S071	- 8- 4	- 426	- 8Sy	- 68y	6U21	ql s
pAver	1Sy71	- 4y2	- 442	- EE1	- 4yE	1UEE	ql s
poOAum	2- 72	E2648	E1Syy	ES- 88	E1- 08	2U2E	ql s
p&ona&Aum	8671	- 84ES6	- y4- 22	- 081y-	- 8E60-	2U11	ql s
p&ona&Aum	8871	- E48- - 8	- E- SyS1	- 42y820	- ES- S22	1U8-	ql s
pulfur	- 471	2084E4	2826- 4	2801E6	282048	1UE4	ql s
i erbAum	1Ey71	1S22- 212	1S44E2S0	11- 222E0	1S66- EEy	EU4E	ql s
i erbAum	1Ey72	416Sy46	- yy- E- 4	4S4S- 2-	4S64y- 4	2U12	ql s
i GallAum	2S- 71	1010	1E10	1442	1EE8	yU12	ql s
i GallAum	2SE71	4SSy	- 0Ey	- 260	- 608	1SU26	ql s
i A	11871	1- - 24	1- - yS	12y1E	1- 21S	1UyE	ql s
i A&anAum	4071	yS8yE	y- Ey0	y4S60	y28E-	1U84	ql s
MranAum	2- 871	E- 82-	EEES6	E- SS-	E4111	2U6	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- E- 14	- 6266	- E0EE	- E008	1U-	ql s
Y&erbAum	10271	1S4S4	1Sy- 8	1S20y	1SE41	- U2	ql s
Y&erbAum	10272	ES- 4	E14S	4yyE	ESE0	1U48	ql s
Y&erbAum	10671	8S6y	0y6y	8486	810E	- UE	ql s
Y&erbAum	10672	14- 14	1- 804	14S46	14S08	1UE0	ql s
Y&&Aum	8y71	1- - 2- S86	1- 64414y	1E288686	14S8E- S0	0U4y	ql s
Y&&Aum	8y72	1- 86460	1- S62E4	1- S- 0E8	1- - 216S	- UE-	ql s
ZAnq	6672	40SE1	48S81	404Ey	40E- 1	1USy	ql s
ZAqonAum	yS71	2- 2yE	241- S	22600	2- - 60	- U12	ql s
ZAqonAum	y171	ESy-	ES68	E4E1	E2S4	4U12	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	42Sy80	4S2- 28	412108	4118- 1	2U20	ql s
c n&Amonh	12171	2210	1yES	24Sy	21y2	1SUES	ql s
c rsenAq	0E72	1446	1- 0S	1- E0	1- y1	- U46	ql s
BarAum	1- E71	2y8- 6-	- S4Sy8	- S6626	- S- S2y	1U4S	ql s
BarAum	1- 071	E- 8- 8E	E- ES- -	E- 00SS	E- 0S- y	SU-	ql s
BerhllAum	y71	16y0	102y	1626	1684	- U12	ql s
BAsmu&G	2Sy71	68y486y	6y0S8Ey	6y01- 60	6y4E6yy	SU6-	ql s
BAsmu&G	2Sy72	2y00y4y	- - E- 606	- 21E80-	- 1824yy	EUy0	ql s
BromAne	8171	001y	8211	8128	8S1y	- U28	ql s
RaOmAum	1S871	1y2	242	16-	1yy	2SU16	ql s
RaOmAum	1S671	44E1	- y84	- yy2	4142	6U4E	ql s
RaOmAum	11171	2211	21y6	2- 2-	224-	- U1S	ql s
RalqAum	4- 71	- E6428	- 6S20y	- E2621	- E644-	1US0	ql s
RalqAum	4471	Ey6S01E	6S2016E	Ey- - 6E-	Ey0- 844	SU81	ql s
Rarbon	1271	- 6- - 02y	- 0- yE8S	- 00- 1y1	- 01EESS	1Uy6	ql s
Rarbon	1272	44620	4E- 0S	4E6- 8	4E212	1U16	ql s
RGlorAne	- E71	2- - 6216S	20S8E06E	286- 0444	26- 610yS	1SU28	ql s
RGlorAne	- E72	218SE8	21821S	22E- yE	22SEE4	1UyS	ql s
RGromAum	E272	2y80E	2881y	2y- 1-	2y- - 6	1U8S	ql s
Robal&	Ey72	2S002	2Sy22	2SE- 2	2S042	SUyE	ql s
RoI I er	6- 72	E28E8	ES2SE	ES8S0	E12yS	2U01	ql s
t hsI rosAum	1E671	4ES18	4- S0y	4- 0- 1	4- y4-	2U2E	ql s
t hsI rosAum	1E672	10y- y	10y42	1004E	1080E	SU6-	ql s
. rbAum	16471	- - 8S2	- 2- - 2	- - Ey-	- - 242	2Uy	ql s
. rbAum	16472	1- 44S	1- 210	1- - S0	1- - 21	SU84	ql s
HaOolAnAum	16S71	- 8114	- 00y6	- y18-	- 8- 64	1U8y	ql s
HaOolAnAum	16S72	18- - y	10yyy	18- 2y	1822-	1US6	ql s
9 olmAum	16E71	1SS1y2- 0	y8y6S00	y8SyEyy	yyS8- S4	1US6	ql s
9 olmAum	16E72	- 8640Ey	42SE0S8	4166E12	4S08yy-	4UE0	ql s
DnOAum	11E71	0SSSEy-	02800E8	02208- y	0102S6-	2U11	ql s
DnOAum	11E72	8EE864	y66S8E	y- 00y8	y1yy16	6U22	ql s
Don	E472	12460- 8	110y180	118S1S-	12S2S1S	- U22	ql s
Don	E672	2- - 8- 68y	2284yS06	2- SEy066	2- Sy0E1S	1U10	ql s
Don	E072	EE8820	E42- 01	E44y2-	E480S0	1U61	ql s
Krhl &on	8- 71	2y4	2y2	281	28y	2U8	ql s
LeaO	2S671	- 640Sy	- 66826	- 68E42	- 666y2	SUE2	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- S22- 8	- S0S66	- SE2ES	- S48E1	SU3S	ql s
LeaO	2S871	141- 08E	1420E- -	14- 10y2	1424- 0S	SU66	ql s
LA&GAum	671	2E11844	2E2y81S	2E2- 1E4	2E216S-	SUJ6	ql s
5 agnesAum	2472	4E- S06	4- 88- 2	44y06y	440226	1U60	ql s
5 anganese	EE72	- 180- 1	- S81- 4	- 11EE2	- 128S6	1U0-	ql s
5 olhbOenum	y471	86S-	8yS-	y62S	yS42	EU08	ql s
5 olhbOenum	yE71	2110	2- SS	2284	22- 4	4UE4	ql s
5 olhbOenum	y671	- E06	4SS1	- 826	- 8S1	EU62	ql s
5 olhbOenum	y071	14S8	1- ES	102E	14yE	1- UES	ql s
5 olhbOenum	y871	- - ES	- 810	- 026	- 6- 1	6U31	ql s
NeoChmAum	1ES71	0E820	0Ey2S	0021E	06- 21	1US2	ql s
NeoChmAum	1ES72	22y4-	22- yy	2- 1S0	22816	1U62	ql s
NAqkel	6S72	1S28S	1S1E0	1S104	1S2S4	SU66	ql s
PGosI Gorus	- 172	28- 4	2EES	2410	26SS	8U18	ql s
Po&assAum	- y72	2406SS	241112	24E1- E	244616	1UJ4	ql s
CGoOAum	1S- 71	0S218SS	0- - E6- E	6y8yy14	011E08-	2U6y	ql s
CGoOAum	1S- 72	2y206Ey	- 2S6006	- 1860- 6	- 1S0SE0	EUS1	ql s
pqanOAum	4E71	4E01681	40S12y1	448E220	4E86S66	2UJ0	ql s
pqanOAum	4E72	1202y4	142- Sy	14SES0	1- 60S-	6USS	ql s
pelenAum	8271	64	1SE	y6	88	24U61	ql s
pelenAum	0072	E0	8S	0S	6y	16Uyy	ql s
pelenAum	0872	64	E8	6S	61	EUS-	ql s
pAAqon	2871	1SS1021-	1S1818S2	1SS284y0	1SS0E8- 8	SUy1	ql s
pAver	1S071	20ES	- S- 4	20SS	2828	6UJ6	ql s
pAver	1Sy71	20y2	20Sy	2042	2048	1UE-	ql s
poOAum	2- 72	60666	6E6yy	66862	66042	1U48	ql s
p&ona&um	8671	- 6- - 1y	- 61y18	- 6S06S	- 61yyy	SUJE	ql s
p&ona&um	8871	- - 01648	- 20E8SS	- 281S0E	- - SyES8	1U6-	ql s
pulfur	- 471	26811-	268y82	201yES	26y681	SU0E	ql s
i erbAum	1Ey71	1SS806- E	1S20SyE4	1SS11- 0S	1S12- - 2S	1UJ2	ql s
i erbAum	1Ey72	- 66yy80	41664y4	4S6182S	- y661SS	6U6S	ql s
i GallAum	2S- 71	1- 0E	120E	148-	1- 08	0UE6	ql s
i GallAum	2SE71	- - Sy	- - 10	- - 84	- - - 0	1U2-	ql s
i An	11871	1- E- 2	12E81	12yyS	1- S- 4	- U66	ql s
i A&anAum	4071	0ESy6	00- - -	0E- 82	0Ey- 0	1U6S	ql s
MranAum	2- 871	2800E	- S42y	- S4y6	2yySS	- U26	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- 4yE-	- 4411	- - y- 0	- 44- 4	1U48	ql s
Y&erbAum	10271	yy01	yy0y	y080	yy12	1US y	ql s
Y&erbAum	10272	4y62	40E1	48S1	48- 8	2U28	ql s
Y&erbAum	10671	0011	0E- 6	04y4	0E8S	1UE2	ql s
Y&erbAum	10672	120E1	141E2	14Sy0	1- 660	EU31	ql s
Y&&Aum	8y71	1- - SE0- E	1- 4y- E20	1- E20206	1- 44210y	SU3y	ql s
Y&&Aum	8y72	11yE2- S	1- 46S- 2	12y64- 8	120y2- -	6US1	ql s
ZAnq	6672	- - 0S-	- 1y4y	- 1y- 6	- 2E- S	- U12	ql s
ZAqonAum	yS71	1y06E	1yy6E	1yy2-	1y884	SUE-	ql s
ZAqonAum	y171	4606	44- 4	42- 4	4448	4Uy0	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16.J2aJ1a	TwiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 410	44a - 2	442u2	44uu44	1R20	Qt I
d. iqe C. E	12171	20Sa	2uSa	2u10	200u	2R10	Qt I
dIl p. qO	0 72	224	216-	210S	21a-	2RS0	Qt I
Bwldpe	1- 71	2 2S00	24 114	242210	24646a	2RS6	Qt I
Bwldpe	1- 071	4- aa1	4- aSu4	42aS 4	4- 401S	1R1u	Qt I
BplE8dpe	a71	1640	16u6	1611	164u	2R2u	Qt I
Bdqe biG	2Sa71	62 6S1	0 u400	00 uaa	01aaa2u	11R42	Qt I
Bdqe biG	2Sa72	- 244uua	- 2a6611	- 2640- u	- 26u046	SRuS	Qt I
BlCe q p	u171	16 20	166-	1uS- 0	10S66	4Ra4	Qt I
9 wne dpe	1Su71	21-	2S4	2a6	2- u	21R 4	Qt I
9 wne dpe	1S671	- 006	4u06	4406	4- 06	12R0-	Qt I
9 wne dpe	11171	- 1- -	- - 24	- 1u-	- 21-	- RSu	Qt I
9 w8Qdpe	4- 71	022ua2	01SaSa	0104- -	010S0u	SRu4	Qt I
9 w8Qdpe	4471	121112- 2	121241Su	12S6ua4S	121S1420	SR24	Qt I
9 wlr C.	1271	ua2 uaa	a26SS0a	a2a6u46	a16Sa41	2R2-	Qt I
9 wlr C.	1272	11 a14	114S- 2	11- - S-	114416	1R1u	Qt I
9 G8Clq p	- 71	22226440	2 6SaSu	20- 1- 444	2 S4a6 a	1SR 4	Qt I
9 G8Clq p	- 72	2SS 0	2S 410	2Su041	2S4aS	2RS1	Qt I
9 GlCe dpe	272	- 4642	- 44au	- 41 1	- 44- S	SR0-	Qt I
9 Cr w8	a72	- 1642	- 11au	- Sa- 4	- 12 u	1R14	Qt I
9 Ct t pI	6- 72	u204-	u1a u	u- S20	u2 06	SR60	Qt I
TEl t lCl dpe	1 671	424a-	41- au	4S40a	414 0	2R4-	Qt I
TEl t lCl dpe	1 672	10214	16a01	16u01	10S1a	1RS4	Qt I
Ulr dpe	16471	- - a44	- 4au	- 46S4	- 46u2	2R2	Qt I
Ulr dpe	16472	1- uS1	1- 4S	1- 21-	1- 1u	2R1u	Qt I
HwnC8q dpe	16S71	- 010u	- 0u6-	- uS14	- 06u	1R1u	Qt I
HwnC8q dpe	16S72	1u4- S	1064u	10- - 1	10uS-	- R10	Qt I
h C8e dpe	16 71	uu- 2 6u	1Sa2- 002	112SS244	1S- 1uu62	12R	Qt I
h C8e dpe	16 72	411 6S4	42060u0	42Sa0aS	42SS020	1Ra-	Qt I
& ndpe	11 71	62u6260	0u4 a	uSSS4Su	0- 00 4-	12Ru	Qt I
& ndpe	11 72	a44041	a6 SS2	a6 4a	a u41-	1R24	Qt I
&C.	472	1au0u u	2S4- - u4	2S1 60a	2S1 641	1R u	Qt I
&C.	672	- 0SSa a	- 6406S44	- au4S12	- 64uauu4	1R41	Qt I
&C.	072	u02 1a	u0 aSS	u uaa6	u6a1- u	1RS-	Qt I
KIEt iC.	u- 71	- 24	2ua	- S0	- S0	R01	Qt I
Lpwn	2S671	1a14- u	1uu41S	1u- uu4	1u0a1S	2RS2	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	&I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM-a	T8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	TwiwMt8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1 - u -	1 1ua0	1 1S61	1 2201	SRa4	Qt I
Lpwn	2Su71	020u6a	01a2 S	021662	022a20	SR62	Qt I
LqiGdpe	671	22a 24	204u S6	206S20	26S1- 42	1SR1a	Qt I
y wg. pl dpe	2472	24S2u 1	2- a1uu2	2- 2a1SS	2- 04611	1R6u	Qt I
y w. gw. pl p	72	S 11S	SaS 6	4a0S2a	S- 0- 2	1R22	Qt I
y C8Er np. be	a471	1SS21	1S0- u	1S1- 0	1S2aa	- R04	Qt I
y C8Er np. be	a 71	46 1	40- 4	4a 1	400a	- R24	Qt I
y C8Er np. be	a671	64S2	6u00	6S00	64 2	6R24	Qt I
y C8Er np. be	a071	2a a	- S42	20 a	2a2S	4Raa	Qt I
y C8Er np. be	au71	06a4	6au	0644	0441	R 2	Qt I
mpOnEe dpe	1 S71	6 110	6 u2u	64a- 0	6 2a4	SR02	Qt I
mpOnEe dpe	1 S72	1au- 2	1a uu	1a- 40	1a ua	1R24	Qt I
mqOkp8	6S72	2S1- u	1a020	1a6S4	1au2-	1R41	Qt I
NGOI t GOIbI	- 172	1SS- 0	1S646	1S22a	1S- S4	- RS2	Qt I
NOiwI I dpe	- a72	- S60	- S062a	- S 4 u	- S6614	SR 6	Qt I
F GOndpe	1S- 71	62a 1u6	0620- 21	uS- S226	0- 10 0u	12R41	Qt I
F GOndpe	1S- 72	- 1 0 06	- 2S1141	- - 641a0	- 24Sa01	- R 6	Qt I
DOw. ndpe	4 71	4S6a2 2	S- 0226	1u2 41	406- SS0	12R01	Qt I
DOw. ndpe	4 72	142Suu	144aS0	14 1 2	144S4a	1R1u	Qt I
Dp8p. dpe	u271	2 6	20	21	24a	12R 4	Qt I
Dp8p. dpe	0072	u-	1S-	0S	u6	1aR61	Qt I
Dp8p. dpe	0u72	a1	aa	u0	a2	6R62	Qt I
Dq8qOC.	2u71	1S4- 2a0S	a aa 4	a40u24u	au2- 024	R a	Qt I
Dq8vpI	1S071	1a10	21- 4	1a0	2SSa	R u	Qt I
Dq8vpI	1Sa71	1a S	1u10	10- -	1u- 4	Ra6	Qt I
DOndpe	2- 72	- a 140	- a6606	- uaSuu	- a- 6- 0	1RS2	Qt I
DiIC. idpe	u671	60au 1	604062	66 46	60- - 6S	1RSu	Qt I
DiIC. idpe	uu71	624u624	6S4646S	au- ua2	6Sa2aa2	2R20	Qt I
Db8bI	- 471	- 4a- 1S	- Su- 1	- 1uu4	- S60	SR 0	Qt I
cpIr dpe	1 a71	uaa160-	112a1 00	114- 110a	1S 01406	12Ra6	Qt I
cpIr dpe	1 a72	4SS012a	414u2u2	412160	4Sa2- 62	1Ru-	Qt I
cGw8dpe	2S- 71	10u4	1u S	1660	1060	R2	Qt I
cGw8dpe	2S 71	41S1	- a10	4- 4-	412S	R1u	Qt I
cq	11u71	46S	66u	- S1	406	- R 6	Qt I
cqiw. dpe	4071	0 2a4	0424-	02- 2	0- a 4	2RS4	Qt I
5 Iw. dpe	2- u71	1uS4u1	10uuu4	10u0Su	10a- u	SR 4	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	TwiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	172	4a4u2	4uS44	406- a	4u- uu	2RSS	CI l
Yiiplr dpe	10271	1S- 4	11S	1116-	1Su u	4RS	CI l
Yiiplr dpe	10272	112	Su4	11u	1S	SR	CI l
Yiiplr dpe	10671	u4 -	uS1a	u144	u2S6	2R02	CI l
Yiiplr dpe	10672	1- - 46	1- uS0	14u -	14SS2	R 2	CI l
Yiildpe	ua71	121S2142	146- 146-	14au 6SS	1- aS64S2	11R 1	CI l
Yiildpe	ua72	1- 11a 2	1- 1au22	1- aaa0-	1- 4- a16	- R62	CI l
Zq O	6672	0- a-	04S6-	02a 0	0- 6 1	SR02	CI l
ZdqOC. dpe	aS71	2Saa1	21026	221	21624	2R02	CI l
ZdqOC. dpe	a171	40- 4	4u- 4	4u1u	40a	1R12	CI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAum	2072	40SJ22	460SJ-	46J- J0	46J064	SU4S	ql w
cn&Amony	12171	1hhJ	102h	16hJ	1640	hUSE	ql w
crwenAq	0h72	- 121	- 1- h	- 14S	- 1- 2	SUJ1	ql w
BsrAum	1- h71	1JS6h6	1J0- J6	1J- 0JJ	1J- E4-	1UJ-	ql w
BsrAum	1- 071	- 2216h	- - 6E41	- 21- J2	- 26J2E	2U6J	ql w
BeryPAum	E71	1J02	1E60	1J04	1ES4	2UJ6	ql w
BAumu&G	2SE71	6EEhE- 4	h2- 164-	6- ESh6S	62S6S46	14U4h	ql w
BAumu&G	2SE72	- 22hJJ0	- 2S2104	- 2S4SS0	- 21S6JE	SU41	ql w
BromAne	J171	hEJh	60Jh	6h00	644E	6U44	ql w
RsOmAum	1SJ71	1hS	21-	160	106	1JUJh	ql w
RsOmAum	1S671	444-	- S0h	- E10	- J12	1JUSE	ql w
RsOmAum	11171	1Eh6	1J21	10JJ	1Jhh	4UJS	ql w
RsRqAum	4- 71	11hJ461	124E610	126S461	1222J46	4UhJ	ql w
RsRqAum	4471	1E10021h	1EE24E- 2	2SSJJ42S	1E0- S1JE	2U46	ql w
Rsrbon	1271	- S2220h	- S14- Jh	- Sh- 4- 0	- S- SS- 2	SU6J	ql w
Rsrbon	1272	- 6J- J	- 6262	- 61- 0	- 6412	1US-	ql w
RGPorAne	- h71	2162E- h2	2h2J146S	2000Eh- J	24JE60J-	12U42	ql w
RGPorAne	- h72	2S1E1E	2S62h-	214E0E	2S0010	- U2S	ql w
RGromAum	h272	- 1- 44	- S0J6	- S0JS	- SE0S	1USh	ql w
RobsR&	hE72	- EJS6	- E224	- E1SS	- E- 00	SUE6	ql w
RolI er	6- 72	0J6J0	0JS00	0Jh6S	0J441	SU41	ql w
t ywl rowAum	1h671	hSE6h	h114E	hS6Sh	hSES6	SUh4	ql w
t ywl rowAum	1h672	2SJES	21200	2SJ06	21S14	1USJ	ql w
. rbAum	16471	44SE1	4h02E	4- 2E6	44- 02	2UJS	ql w
. rbAum	16472	1J- - 6	1040h	10h0h	100Eh	2U6h	ql w
HsOoPAum	16S71	4J4Sh	4J- 40	46hS0	400h-	2U26	ql w
HsOoPAum	16S72	222E2	222EE	22h6E	22- J0	SU01	ql w
9 oPmAum	16h71	1S1E020h	0424E- J	E1JS1JS	JE- 41- 1	1hU0S	ql w
9 oPmAum	16h72	422SS42	41J2- 2-	4Shh- J6	41h2hJ4	2USJ	ql w
DnOAum	11h71	024E612	h- - 60E6	641h2- 1	6- - - JJS	1hU14	ql w
DnOAum	11h72	E4JEJ6	E4- 0EJ	E2hE02	E- EhJh	1U2J	ql w
Don	h472	26S1- J2	2hE4114	2hJJS- 2	2hE4hSE	SU26	ql w
Don	h672	46- JhJhE	4660JSJS	4600hEhJ	4661- 2EE	SU44	ql w
Don	h072	11S0JhJ	11S- 64S	11SE6J2	11S0S6S	SU2J	ql w
Kryl &on	J- 71	2E2	- hS	- - 6	- 26	EU2S	ql w
LesO	2S671	2226J6	2- 6S6J	2- 2ShS	2- S26J	2UEJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb psmI Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psmI Re D :	5 9 SF4S	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	1J4212	1E102h	1JJ6E-	1JJ21S	2US1	ql w
LesO	2SJ71	J0- SSS	E1E- 0E	JEEEE6	JE04hJ	2U6S	ql w
LA&GAum	671	2h140hh	2S2hJh-	2- 4144h	22E4S1J	1SUJ1	ql w
5 sgnewAum	2472	2S0E6JS	2SJ- E40	2S4E2E-	2S0SE0-	SUE1	ql w
5 sngsnewe	hh72	206EE2	206h0-	20J0Jh	2004hS	SU42	ql w
5 oPybOenum	E471	2- 161	2- 10J	2- 462	2- 260	SU0-	ql w
5 oPybOenum	Eh71	464-	4626	401J	4662	1USh	ql w
5 oPybOenum	E671	J10J	J42J	Jh- 6	J- J1	2U1E	ql w
5 oPybOenum	E071	- ShS	202h	200h	2JhS	6U14	ql w
5 oPybOenum	EJ71	0400	0400	0h11	04JJ	SU26	ql w
NeoOymAum	1hS71	00E60	J140-	0J4Eh	0E- 12	2UJJ	ql w
NeoOymAum	1hS72	2- - S0	2- 4SS	2- - h1	2- - h-	SU2S	ql w
NAqkeP	6S72	206E4	2601J	26JE6	201S-	1UE2	ql w
8 GowI Goruw	- 172	- 242	- 460	- 210	- - SE	4U16	ql w
8 o&swwAum	- E72	21- 4Eh	2SES- 4	2SEJ- 0	21S0JE	1U1-	ql w
CGoOAum	1S- 71	0212E1h	h202S24	6- hJ4JS	62J114S	1hU4E	ql w
CGoOAum	1S- 72	- 1E1h66	- 1J- ESS	- 1462h2	- 10- ES6	SU06	ql w
pqsnOAum	4h71	46664EE	- 4- 6EJJ	4264- 00	4122621	1hU21	ql w
pqsnOAum	4h72	142- 0J	144hS0	1421h2	14- S12	SUE1	ql w
peRenAum	J271	2hE	161	1J2	2S1	2hUh-	ql w
peRenAum	0072	1S-	1S-	00	E4	16UJS	ql w
peRenAum	0J72	J4	E4	ES	JE	hU6-	ql w
pARqon	2J71	1h- 1J644	1h- 1124h	1h416666	1h- 4JJh2	SUJJ	ql w
pARer	1S071	1E60	21hS	2SE2	2S0S	4Uh-	ql w
pARer	1SE71	1JJ4	10SJ	10E2	10Eh	4UJJ	ql w
poOAum	2- 72	6hJ22h	646JS2	64hSSE	6hSS12	1U1S	ql w
p&onA&um	J671	h460Sh	h02S11	hhEES1	hhEh- E	2U26	ql w
p&onA&um	JJ71	hS2426h	h210hSh	h112104	h110EJ1	1UJE	ql w
puRur	- 471	EE6J4E	1S1- 4S4	1S142E0	1SSJ1J-	SUE0	ql w
i erbAum	1hE71	1S- 2- - 06	061- 6Sh	E1JS64E	ES- E21S	1hUSh	ql w
i erbAum	1hE72	4S12622	4SSES20	- EJS2Jh	4SSS64h	SU44	ql w
i GsRAum	2S- 71	1E2h	2SJ4	2ShE	2S22	4U21	ql w
i GsRAum	2Sh71	4hh1	h1h1	hSh1	4E1J	6Uh4	ql w
i A	11J71	1ESJS	1E- J1	1E0J1	1E414	1UJ1	ql w
i A&snAum	4071	4h- 14	46h26	4h4EJ	4h00E	1U4-	ql w
MrsnAum	2- J71	JEJSJ	E- 2h1	E420h	E244h	2Uh-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	hh011	h4JSJ	h- J04	h40EJ	1U6J	ql w
Y&erbAum	10271	1- 21h	1- J16	1- - 1h	1- 44E	2UJ E	ql w
Y&erbAum	10272	6- Jh	6- Jh	641J	6- E6	SUJ S	ql w
Y&erbAum	10671	E6Eh	E0- 0	1SS46	EJ26	1UEh	ql w
Y&erbAum	10672	1hh01	14J- 1	1h1J0	1h1E6	2U4-	ql w
Y&&Aum	JE71	1- 0614EJ	1S2E114h	12S2J002	12S201- J	14U4-	ql w
Y&&Aum	JE72	1- 16066	1- Sh1Jh	120E6- J	1- SSh- S	1U46	ql w
ZAnq	6672	4- 010	4- S0h	446SS	4- 0EJ	1U0h	ql w
ZAqonAum	ES71	h- - J6	h6JSJ	hhS4-	hhS0E	- U11	ql w
ZAqonAum	E171	124J1	1260-	12Eh6	120S-	1UJJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r:	SN1q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	JS6101	J1S- 4S	JSJJS-	JS0- - N	SM12	dDw
qCTb nCh	12171	110J	12- -	1- 10	1242	JN0-	dDw
qpwr Ccd	0J72	1S4J	111-	11- E	1SEE	4M12	dDw
Bspcmb	1- J71	2JS412	2J222E	2J6410	2J- S1E	1M12	dDw
Bspcmb	1- 071	4- EJ- 1	44J626	44NJ- 6	444J64	1N8-	dDw
Br phPmb	E71	1E14	1E4E	1EJ6	1E- E	1M10	dDw
Bcwb mTG	2SE71	01SN10E	011N40E	666N0E0	6E6J1J2	- N0E	dDw
Bcwb mTG	2SE72	- - 2- 41E	- - S4S42	- 1E- 1S0	- 20- J2-	2M1J	dDw
Bpmb cCr	N171	64- J	0120	66- J	60- 2	JN2E	dDw
5 sob cmb	1SN71	N-	01	- -	62	41N04	dDw
5 sob cmb	1S671	- E06	44SE	- 0JE	4S4N	NM1N	dDw
5 sob cmb	11171	E1S	E66	N61	E12	JN0N	dDw
5 sPdcmb	4- 71	E1SJ1	E- 1N1	E- 0- 6	E26J6	1M-	dDw
5 sPdcmb	4471	16- N4JJ	16- S12E	16J2J2J	164S- 0S	SN0E	dDw
5 spenC	1271	- 1EN211	- 2- N6N0	- 26S- 2J	- 2- 24SN	SNEN	dDw
5 spenC	1272	- 0N24	- E11E	- N2N4	- N4SE	1N01	dDw
5 GPmpcCr	- J71	222121N-	26462144	2ES2JS62	2JNEE0E6	1- N2E	dDw
5 GPmpcCr	- J72	2140N-	2102E0	224J04	21NNNJ	2M12	dDw
5 Gpmb cmb	J272	- - N2S	- - 10J	- - - - E	- - 44J	1N8S	dDw
5 nesPT	JE72	2S16N	1E64S	1EE- 4	1EE14	1M-	dDw
5 nDDr p	6- 72	402JJ	46462	46E11	46N06	SNNJ	dDw
&hwDpnwcmb	1J671	0SE40	6E016	0262-	01SEJ	2N8J	dDw
&hwDpnwcmb	1J672	2E222	2NESN	2E1EE	2E11S	SN0S	dDw
Fpecmb	16471	JJJ42	JJNE-	J612S	JJNJ1	SM12	dDw
Fpecmb	16472	226N6	22S02	21NEN	2221E	1NN6	dDw
HsonPCcmb	16S71	JN24J	JE- 2J	JE606	JESN2	1N26	dDw
HsonPCcmb	16S72	206NE	200SE	20602	206ES	SN80	dDw
y nPb cmb	16J71	1S- 2JJ1N	1S10E606	E22N020	EE11- S0	6N81	dDw
y nPb cmb	16J72	42EJ2E6	414601S	41040- 1	42SJJ0E	1NNN	dDw
tCocmb	11J71	04S6E04	04J2E66	66E2E06	01N4- SJ	JNE-	dDw
tCocmb	11J72	E0JE22	EJ0S44	E4NE06	E6S640	1M44	dDw
tpnC	J472	1JN- 16J	1J0NN1-	1J6606-	1J06240	SM14	dDw
tpnC	J672	2N- 06E10	2N44- - S1	200E41S-	2N2S400-	1N20	dDw
tpnC	J072	6N2E20	6NS- 0S	664N20	606S41	1M4J	dDw
KphDTnC	N- 71	- - S	- 41	2N4	- 1N	EM10	dDw
Lr so	2S671	146ESE	1400JJ	1JS4E1	14N- NJ	1N26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP usb r:	SN1q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	11N401	12S142	121212	11EE42	1M1J	dDw
Lr so	2SN71	J0S64N	J044- E	J0E0SE	J04E- 2	SM0E	dDw
LdTGmb	671	26- NE- 4	260S21-	2422- 60	2J00101	JM24	dDw
9 sgOr wcmb	2472	- 2E20N	- 1E146	- 2J422	- 2461J	1MIN	dDw
9 sOgsOr wr	JJ72	- NJJ64	- N- - 4J	- 0NJ4N	- N24N6	SMEE4	dDw
9 nPheor Cmb	E471	6J1N	664-	6000	6646	1NE4	dDw
9 nPheor Cmb	EJ71	20JS	2- JS	2JJE	2JJ-	0NM4	dDw
9 nPheor Cmb	E671	- 0JE	- EJ1	- N10	- N42	2M6	dDw
9 nPheor Cmb	E071	16SN	1660	1NSS	16E2	JNM1	dDw
9 nPheor Cmb	EN71	- EJ1	4142	4S60	4SJ-	2MIN	dDw
u r nohb cmb	1JS71	12410S	12JJ10	12J6- 1	12J1S6	SM0J	dDw
u r nohb cmb	1JS72	- NJN6	- 0121	- N110	- 0E41	1NE0	dDw
u cdkr P	6S72	11N6J	110- 2	11N- J	11N11	SMIE	dDw
8 GhwDGhpmw	- 172	1- E2	1J- -	14SS	1442	JM1	dDw
8 nTswwcmb	- E72	2SN- N1	21S- 20	211JJ4	21SSN0	SM06	dDw
. Ghocmb	1S- 71	0414E66	02100JN	6626N- N	0SN6J21	JM0E	dDw
. Ghocmb	1S- 72	- 2S- - 2N	- 24SE24	- 16J12S	- 2S- 124	1MIN	dDw
I dsCocmb	4J71	4N4N614	4000EE1	42EJ4S0	464S601	6MIE	dDw
I dsCocmb	4J72	14J6NS	14- NN-	14- 421	144- 2N	SMM-	dDw
I r P Cmb	N271	E6	NJ	14S	1S0	20M-	dDw
I r P Cmb	0072	16-	1J-	1J0	1JN	- M-	dDw
I r P Cmb	0N72	E0	E4	NN	E-	4NE-	dDw
I dcdnC	2N71	12021NJ-	12E20E- 4	1- 12E6S2	12E2646-	1MIN	dDw
I dPr p	1S071	0SN	1S2J	0E2	N42	1EMS	dDw
I dPr p	1SE71	0JS	02J	02J	0- -	1NE0	dDw
I nocmb	2- 72	- 20S4	- 2- 4J	- - 6- 1	- 2NE-	2NS2	dDw
I TpnCTcmb	N671	16J66E	16N2- N	16J664	166J24	SMIE	dDw
I TpnCTcmb	NN71	1J2JS6-	1J44NS1	1J14SE2	1J20ENJ	1NS2	dDw
I mPmp	- 471	206N60	201S- J	26JS4N	20SEN-	2MIN	dDw
Ar pecmb	1JE71	1S66J46-	1S4N- 44E	E- 2SN6N	1S1J6JE-	0MIN	dDw
Ar pecmb	1JE72	41J6- 66	41S2S06	- E0EJE2	4S0E- 4J	2M12	dDw
AGsPcmb	2S- 71	1610	10SS	1060	16EJ	4M44	dDw
AGsPcmb	2SJ71	4SSE	- N06	- N06	- E2S	1NE6	dDw
AdC	11N71	0N6E	NJ2N	N011	N- 6E	JM2E	dDw
AdSCmb	4071	11SSE0	1126E1	11- 11-	111E60	1M46	dDw
RpsCmb	2- N71	- 40N2	- J6- 4	- 464N	- JS21	1M-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r :	8 N
5 Rr CTI sb DP t&:	9 y SU4J	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r :	SN1q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	- N104	- 0J42	- 0422	- 001-	1N30	dDw
YTTr pe omb	10271	1N46-	1E24N	1E2EN	1ESS-	2M46	dDw
YTTr pe omb	10272	ES2S	N6- 1	N4- 6	N6E6	- M42	dDw
YTTr pe omb	10671	1- 24E	1- JE1	1- 104	1- - - N	1M60	dDw
YTTr pe omb	10672	160- E	16466	16NJJ	166N0	1M2S	dDw
YTTpomb	NE71	14J6S2N1	1426E- - 2	12EN2- S4	1- E- 0- S6	6N3-	dDw
YTTpomb	NE72	1410- J1	1- 0J46-	1- 2J11S	1- 02641	- M16	dDw
ZdCd	6672	2- 2JE	22N22	2- 2SE	2- SE0	1N34	dDw
ZqpdnComb	ES71	140JN	1J410	1J2JE	1J14J	2M20	dDw
ZqpdnComb	E171	- 426	- - 42	- 10J	- - 14	- NM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RFen&psmI Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	44y S2	4h- hS4	4h4661	4h26hh	SUh6	ql w
cn&AmonE	12171	2y 4	2 10	2 42	2 1	-U12	ql w
crwenAq	0h72	21S4	21h-	2212	21h0	2Uh1	ql w
BsrAm	1- h71	2- 1h 4	2- hhSh	22 214	2- 106	1Uh0	ql w
BsrAm	1- 071	412- h2	4ShSh-	4Sh04-	4S0016	SUyy	ql w
BerEHAm	y71	12 y	1- S2	12- 2	1204	2Uy1	ql w
BAmu&G	2Sy71	01 1S22	6y241 6	0S46 4	0ShS6 6	1U2	ql w
BAmu&G	2Sy72	- - 41hy-	- S0 h2h	20 y0h-	- S6yyh0	Uyy	ql w
BromAne	171	60S2	0- 20	0S- h	0S21	4U46	ql w
RsOmAm	1S 71	2h	21-	10h	21h	1yUy	ql w
RsOmAm	1S671	4- 60	4S 4	4Sy2	41 1	- U6	ql w
RsOmAm	11171	2yy	2 h2	- 112	2y 0	4U0	ql w
RsRqAm	4- 71	h- h42	h- yy02	h- h S2	h- 0S60	SU40	ql w
RsRqAm	4471	yS- 010-	y 1 - h	yS21- hS	yS1- 4h2	SU2	ql w
Rsrbon	1271	61y - 6y	6- hh0h1	646661-	6- 4S24h	2U1-	ql w
Rsrbon	1272	0000-	00- 4h	0 142	000h-	SUh1	ql w
RGRorAne	- h71	2- - 02- S6	26hy2- 2h	2ySh6- 4	26- 4S- 26	1SU2	ql w
RGRorAne	- h72	21- 12	210y10	21 4- y	21602-	1U10	ql w
RGromAm	h272	- 21Sy	- 2644	- - 1 y	- 2640	1U6h	ql w
RobsR&	hy72	2y2- 0	2y0y1	2y64	2yhh	SUy0	ql w
RoI I er	6- 72	60y-	66 6S	66 S	60226	SUy2	ql w
t EwI rowAm	1h671	- 41h-	- h2 1	- - 6S	- 44- 1	2U1	ql w
t EwI rowAm	1h672	14h-	142 1	146h	144y2	1U-	ql w
. rbAm	16471	2y - 4	2y660	2 4 y	2y- - S	2UhS	ql w
. rbAm	16472	1110h	11h- h	1166h	114h	2U22	ql w
HsOoRnAm	16S71	- 24yy	- 1 - y	- 210-	- 210S	1US-	ql w
HsOoRnAm	16S72	1h2Sh	1hS6y	1h2 6	1h1 0	SU02	ql w
9 oRnAm	16h71	1S1y64S0	y 6h0 S	1SS111- 4	1SS2444S	1U6h	ql w
9 oRnAm	16h72	4SySyS0	- y h- 42	- h- 664	- 0Sy66	0U6S	ql w
DnOAm	11h71	0261426	02y- ySy	02ShSy0	02h- 400	SU62	ql w
DnOAm	11h72	y4h 40	yh1- 0	S4222	10- h	U14	ql w
Don	h472	2Sy- 04	214 2 6	2Sy- 6- 6	2111 yS	1U4y	ql w
Don	h672	- 01hy01-	- 0- 61y4S	- yS00S6y	- 0 66241	2U0	ql w
Don	h072	S61	y1241-	ySh- 4	yS1y41	1Uy	ql w
KrEI &on	- 71	204	- SS	20S	2 1	hU1	ql w
LesO	2S671	1yhh2	1y4- 00	1y4- 06	1y406S	SU4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psmI Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	16111-	161404	16S61	161S6y	SU20	ql w
LesO	2S 71	061y0y	0h40- h	04 y6-	0hh226	SU 6	ql w
LA&GAum	671	2h00y01	2h 4 6	2h6hy2S	2h062h-	SU0	ql w
5 sgnewAum	2472	1h4yy66	1h266- 1	1h6- 1Sh	1h46h60	1U1y	ql w
5 sngsnewe	hh72	- 1yS4S	- 2264h	- 24y 0	- 22224	SUy-	ql w
5 oPEbOenum	y471	4h	y4h	6- 6	Sy	1U0y	ql w
5 oPEbOenum	yh71	h01S	h1y-	h- S1	h4S1	hUSh	ql w
5 oPEbOenum	y671	0S- h	0120	601S	6yh	- U1h	ql w
5 oPEbOenum	y071	- 142	- S42	- 1 4	- 12-	2U-	ql w
5 oPEbOenum	y 71	y112	y4 0	ySh-	y210	2Uhh	ql w
NeoOEmAum	1hS71	h4hy	h6164	hh h6	hhh- y	1U4y	ql w
NeoOEmAum	1hS72	1hy6S	16- S0	16- S-	161yS	1U2-	ql w
NAqkeP	6S72	2Sy 6	2S hh	2S- 4	2S0- S	1U62	ql w
8GowI Goruw	- 172	40 4	4 1	40- 4	400y	SU	ql w
8os&swwAum	- y72	- SS026	- S0 - 6	- S42 S	- S42 1	1U10	ql w
CGoOAum	1S- 71	02yhy26	0Sy- y61	0SyS2 S	016SSh6	1U64	ql w
CGoOAum	1S- 72	- 10hyh4	- S40 - 4	201y- 11	2y 1S- -	0UyS	ql w
pqsnOAum	4h71	40S- y02	4h 210y	40ShS- y	466- 0- S	1Uh1	ql w
pqsnOAum	4h72	141022	1- h1y2	11yh- y	1- 21h1	U6-	ql w
peRenAum	271	116	11y	1Sy	11h	4Uh4	ql w
peRenAum	0072	h0	S	h0	64	2SUyS	ql w
peRenAum	0 72	6S	0-	06	0S	12U21	ql w
pAAqon	2 71	1- Sy14yh	1- S06y 6	12y6 620	1- S4h0S-	SUh1	ql w
pARer	1S071	22y2	2hSy	22hy	2- h-	hU00	ql w
pARer	1Sy71	22y2	2- 2h	24Sy	2- 42	2Uh0	ql w
poOAum	2- 72	460hy	401 6	4044h	401- S	SU0-	ql w
p&on&Aum	671	10Sh1	166142	16 S40	16 2- 6	1US	ql w
p&on&Aum	71	1h40216	1h60- Sh	1h261Sh	1h46 0h	1U-	ql w
puRur	- 471	- SSS1S	- S- - 6	- Sh4h2	- S2y4y	SUy1	ql w
i erbAum	1hy71	1Sh1y-	1S1- - 6S1	1SSy1- h2	1S24 114	2US	ql w
i erbAum	1hy72	- y 6y46	- 6 0	- 40h6y4	- 00010-	0USy	ql w
i GsRAum	2S- 71	2S2h	22 4	212h	214h	6USS0	ql w
i GsRAum	2Sh71	4yhy	4 h1	hSS1	4y- 0	1Uh0	ql w
i An	11 71	44S1	44- 4	4126	4- 2S	- Uy2	ql w
i A&snAum	4071	60- 0h	6 Sy6	6hh42	60SS4	1Uy0	ql w
MrsnAum	2- 71	4 260	4y2hh	hSyh-	4y4y2	2U04	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	h226y	h241y	h100S	h21h2	SU6h	ql w
Y&erbAum	10271	4h	hyh	h61	660	1U0y	ql w
Y&erbAum	10272	- 010	4Sh6	4- 2-	4S- 2	0Uh-	ql w
Y&erbAum	10671	6y44	6yh2	0S- h	6y00	SU0-	ql w
Y&erbAum	10672	1- 46-	12 6	12S61	120y0	hUhS	ql w
Y&&Aum	y71	1- - 6 4- 1	1- 61 146	1- - - h- 2-	1- 44S6- -	1U1h	ql w
Y&&Aum	y72	12 2Sy	12- 1yy	1Sy6- 4S	12Shh16	U1	ql w
ZAnq	6672	h116h	h1 -	h1102	h1- y2	SU0h	ql w
ZAqonAum	yS71	140hS	1h6- 4	14h16	14y60	- Uy4	ql w
ZAqonAum	y171	- 406	- 426	- SSy	- - S-	0U06	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
d8be qFqpe	20:2	2S7u070	1yu077y	1y 76S6	1yy y04	U1S	Qt l
dFiqe . Fh	121:1	27y0066	26026S1	264S4 4	26 6y 4	1U42	Qt l
dll pFqO	07:2	6771u	64627	62676	64260	2U2u	Qt l
Bwlqpe	1 7:1	2uu2646	2y62600	2yy1u26	2y47016	1Uy2	Qt l
Bwlqpe	1 0:1	7S 0u70	7106266	7Sy760	71S 266	1U 6	Qt l
Bplh8qpe	y:1	6S7 2y	62112y	61y116	6171y1	1U4S	Qt l
Bqle biE	2Sy:1	61 6606	62yu1	6 216S6	62721 u	1U61	Qt l
Bqle biE	2Sy:2	2ySy600	2u7u27S	2u10460	2u610yu	1U61	Qt l
Bl. e qFp	u1:1	4S 4	4S60	y 4	4S12	1U0	Qt l
3 wne qpe	1Su:1	7Suu1	72462	7 u06	724S6	2Uu6	Qt l
3 wne qpe	1S6:1	0427S	0474	0 u14	042S	SU4y	Qt l
3 wne qpe	111:1	61Sy27	6270 y	6210 S	61y467	1U24	Qt l
3 w8Qqpe	4 :1	007464	uS0746	uS0y67	0y6yy2	SU4y	Qt l
3 w8Qqpe	44:1	7uy404S2	6SS2002	612112u6	6SS621 0	1Uuy	Qt l
3 wlr . F	12:1	26 y716	20S 160	2uSy647	201044	U16	Qt l
3 wlr . F	12:2	0624	07u2	6014	0 S6	1U u	Qt l
3 E8 lqFp	7:1	16y 10	16ySu71	164 4y6	1607u4S	1U60	Qt l
3 E8 lqFp	7:2	1116	1S421	yu74	1S40y	6U20	Qt l
3 El. e qpe	72:2	0S6S12	6y076S	602174	6y1ySy	2U77	Qt l
3 . r w8	7y:2	1262Su4	124u10u	12S02uy	12 y1u4	2U S	Qt l
3 . t t pl	6 :2	1S074124	1S00SySy	1S7 S676	1S6u722y	1U26	Qt l
Thl t l. lqpe	176:1	027	07S	67u	011	6U66	Qt l
Thl t l. lqpe	176:2	2	SS	20	10	4U7y	Qt l
Glr qpe	164:1	2SS	17u	1u	1u1	11U62	Qt l
Glr qpe	164:2	6	1SS	0S	0u	27U1	Qt l
Hwn. 8qFqpe	16S:1	u	0y2	042	0uy	7Uu2	Qt l
Hwn. 8qFqpe	16S:2	44	4 0	400	472	4U04	Qt l
K. 8e qpe	167:1	uy2S02u	y 621y0	y2u4746	y1uy170	2U76	Qt l
K. 8e qpe	167:2	y44224	y 0S2S	u6y7S0	y16y10	1US7	Qt l
8Fnqpe	117:1	6 y4u	67y6y72	6 71406	642y S4	2U26	Qt l
8Fnqpe	117:2	u70 60	u62uyS	u S uS	u7S212	2US7	Qt l
8. F	74:2	u266S0u	u1uy410	0y1y24S	u124y12	2U24	Qt l
8. F	76:2	17SSyy27	1712SS126	144u6y 64	14u022y14	2U20	Qt l
8. F	70:2	ySSu2S	u774S4	74u6u0	06u S4	7USu	Qt l
glht i. F	u :1	21y	27y	240	242	uU7	Qt l
Lpwn	2S6:1	124Su6 6	12772064	1201u712	1277yy01	1U2	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
Lpwn	2S0:1	1Su 04 y	1Syu144S	11126Suy	1Syu1676	1U 1	Ol
Lpwn	2Su:1	4yy2y 21	71 06046	7100 6 6	71S26760	1UyS	Ol
LqiEdpe	6:1	2 S2y76	22uu70u	2 17u2S	2 S2471	SU7y	Ol
5 wkFpl dpe	24:2	2u 767u0	2uS2yS11	202 1S04	20u02224	2USu	Ol
5 wFkwFpl p	77:2	uS4762	0u7671	6y u6S	061 7u	1U70	Ol
5 . 8hr npFbe	y4:1	y72 77u	y6yS26y	y76u06u	y7y41yu	SUyS	Ol
5 . 8hr npFbe	y7:1	1 u4112S	141u1721	1422 17S	14Su1y S	1U4y	Ol
5 . 8hr npFbe	y6:1	14y441y7	17027614	17767uy6	17411yS1	2U6u	Ol
5 . 8hr npFbe	y0:1	u7u4210	uu61 uy	u040702	u0 1S7y	1U6S	Ol
5 . 8hr npFbe	yu:1	227S10u2	2 S2Su46	22u02S 4	220yu221	1U10	Ol
mp. nhe dpe	17S:1	220	2S	20	20	10US0	Ol
mp. nhe dpe	17S:2	7S	S	7	44	2uUy	Ol
mqOvp8	6S:2	u440	y12u	S122	7uyy	1U4y	Ol
NE. l t E. lbl	1:2	1y6S7	1yS1	1uu46	1y177	2USu	Ol
N. iwl l dpe	y:2	u66772u	u02u167	u 6 26y	u7u7674	2U20	Ol
9 E. ndpe	1S :1	612S 17	610u7Su	621027u	6102S20	SU0y	Ol
9 E. ndpe	1S :2	2u16y74	2uSy77S	20 S477	20u767	1U02	Ol
DOwFndpe	47:1	4SS0066	4S0y 2y	416y1 0	4Su7411	1Uyu	Ol
DOwFndpe	47:2	1 1441	1 1 07	12uS12	1 S206	1U71	Ol
Dp8pFdpe	u2:1	44yS	467SS	466S0	46SS	2USu	Ol
Dp8pFdpe	00:2	1 7	1 7S	1 70	1 7	SU27	Ol
Dp8pFdpe	0u:2	4600	44y2	44S6	4727	US6	Ol
Dqq8Q F	2u:1	207SSyS4	200u 4u	2uS0y7u	200u0y47	1US4	Ol
Dq8pl	1S0:1	77447	77S 1	427201	0u7u2	1U2S	Ol
Dq8pl	1Sy:1	10 u17	1y6464	266026	212 7	1U71	Ol
D. ndpe	2 :2	7SuSy2y0	4y6u0721	4u42y 7	4y642S71	2U4S	Ol
Dil. Fidpe	u6:1	1uy64744	1y1740 2	1y41Syu	1y10607	1U10	Ol
Dil. Fidpe	uu:1	16 202y4y	166774u62	16 4yu116	164441y06	1U11	Ol
Db8Vl	4:1	74u 76	742y6y	744 47	74722	SU71	Ol
cplr dpe	17y:1	y2u7 1S	y7uSS7	y6y74 S	y72S264	2U22	Ol
cplr dpe	17y:2	ySS S2	u64S0u	60 6 0	u12602	U1y	Ol
cEw8pe	2S :1	S 1410	S26yuy	S276S	S2uSS	SU1S	Ol
cEw8pe	2S7:1	01414 S	01 67S6	0264740	01uSu2u	1US1	Ol
cqF	11u:1	2S0u6 0	224u471	21u 02y	210S20	Uy7	Ol
cqwFdpe	40:1	60yS04	07u1y0	007026	0 0667	1UUu	Ol
RlwFdpe	2 u:1	1S60 1y7	1Sy 70u6	11 677S0	1Syy14y6	U1u	Ol

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
- wFwndpe	71:2	740070	74 S7y	720217	7 y 44	2U8SS	Qt l
Yiiplr dpe	102:1	1y2	2SS	210	2S	6U2u	Qt l
Yiiplr dpe	102:2	110	0u	1SS	yu	1yUuu	Qt l
Yiiplr dpe	106:1	14216	1 uy1	14S41	14S7S	1U16	Qt l
Yiiplr dpe	106:2	17001	17u67	17001	17uS2	SU 7	Qt l
Yiildpe	uy:1	11u SS7y	12S6 S64	1160204	11u772uy	1U66	Qt l
Yiildpe	uy:2	1160u10	1162077	11420u6	11700u6	1U14	Qt l
ZqFO	66:2	1272u14	12 1u71	12S4y S	122yu67	1Uy7	Qt l
ZqlQ Fdpe	yS:1	4442u07	46u01 0	4701666	4760226	2U6u	Qt l
ZqlQ Fdpe	y1:1	y6 uu7	yy 7S0	yu0yyu	yu10y0	1U6S	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8 spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
qPmb c omb	20 2	101	10y	16S	10S	-U--	dDw
q. Tb C. h	121 1	1SN7	11-N	17y2	1211	17U2N	dDw
qpwr . cd	0- 2	4	-	4	4	17U72	dDw
Bspomb	17- 1	22-	2SN	210	210	7UN-	dDw
Bspomb	170 1	742	4SS	-2-	422	22U1N	dDw
Br phPmb	y 1	12y	11S	122	12S	0Uy7	dDw
Bcwb mTE	2Sy 1	6y17-1-	662SN1-	66yS27N	6041-27	2U20	dDw
Bcwb mTE	2Sy 2	71NNN2y	71NN10y	72N27NS	721y0y6	1U6N	dDw
BpCb c r	N1 1	76-y	4142	4S74	7y4-	6U47	dDw
3 sob omb	1SN 1	7N	N	17	1y	N1U14	dDw
3 sob omb	1S6 1	7--y	7426	7726	7470	7U41	dDw
3 sob omb	111 1	4-y	4N7	424	4--	6U S	dDw
3 sPdomb	47 1	--S	4y6	4-y	-S2	yU14	dDw
3 sPdomb	44 1	76N46	7-171	74414	7-464	7U2	dDw
3 speC.	12 1	274--44	277S6Sy	2714220	277S126	SU60	dDw
3 speC.	12 2	200S2	2006N	2NS1y	20N7S	SU6S	dDw
3 EPOpc r	7- 1	14142Ny	17-S100	17-1N4y	17021S-	2U66	dDw
3 EPOpc r	7- 2	N76y	NNN6	N761	N-7y	7U2	dDw
3 EpCb omb	-2 2	1S4S	11S7	1170	1Sy7	4U4y	dDw
3 CesFT	-y 2	1S7	-7	6S	02	70Uy	dDw
3 CDDr p	67 2	10-7	1077	1660	101N	2U64	dDw
&hwDpOwomb	1-6 1	N	S	S	7	107U21	dDw
&hwDpOwomb	1-6 2	S	S	7	1	107U21	dDw
Fpeomb	164 1	60	77	-S	-S	77U74	dDw
Fpeomb	164 2	10	10	10	10	SUSS	dDw
GsoCPe omb	16S 1	N7	1SN	N7	y2	1-U04	dDw
GsoCPe omb	16S 2	1S0	110	y7	1S6	11USy	dDw
HCPb omb	16- 1	yN72-10	y21y--0	y4707NN	y4y64N0	7U20	dDw
HCPb omb	16- 2	4S000y2	4SyN4S0	41S1476	4Sy2-4-	SU71	dDw
t. oomb	11- 1	0S41SNS	6NS4260	6NSySN4	6NN4N1S	1Uy0	dDw
t. oomb	11- 2	y2011-	y7-4N2	y7Sy12	y7110S	SU4-	dDw
tpC.	-4 2	60N	-44	044	6-6	1-U7	dDw
tpC.	-6 2	N-0-	02-2	00y1	0N07	NU4-	dDw
tpC.	-0 2	7S6	261	2-S	202	1SUNS	dDw
KphDTC.	N7 1	2-2	2S2	2--	270	12U1	dDw
Lr so	2S6 1	1N11	1N74	164-	1067	-UN6	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tusb r:J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdPP:usb r:J	SN-3 3 BFUb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Lr so	2S0 1	10-6	1-02	1611	1646	-UN0	dDw
Lr so	2SN 1	N10y	0462	01yS	061S	6U01	dDw
LdEcmb	6 1	2-147yS	276N2-y	27y672-	2426724	7U2S	dDw
5 sg. r wcmb	24 2	ySN	Ny2	y0-	y2-	4U06	dDw
5 s. gs. r wr	- - 2	2S7	1yS	21S	2S1	-US6	dDw
5 CPheor . mb	y4 1	1777	122-	112-	122N	NU4y	dDw
5 CPheor . mb	y- 1	1y-S	1010	1-SS	1022	17US0	dDw
5 CPheor . mb	y6 1	222-	1y74	100-	1y0N	11U-4	dDw
5 CPheor . mb	y0 1	122-	1Sy2	y-N	1Sy2	12U21	dDw
5 CPheor . mb	yN 1	7726	2610	2474	20y2	16UN0	dDw
u r Cohb cmb	1-S 1	17	17	17	17	SUSS	dDw
u r Cohb cmb	1-S 2	7	S	7	2	N6U6S	dDw
u cdkr P	6S 2	6S	-7	y0	0S	77U74	dDw
8 ECwDECpmw	71 2	1N7	142	1-N	161	17US2	dDw
8 CTswwcmb	7y 2	114S-	111S-	12S40	11-1y	4U1N	dDw
9 ECocmb	1S7 1	0S70S-S	6676yN0	664y22-	6004421	7U76	dDw
9 ECocmb	1S7 2	72NN0y-	7S04N27	71421S7	716N-04	7U4-	dDw
I ds. ocmb	4- 1	4-1y66N	41N-127	4716446	474S412	7UNN	dDw
I ds. ocmb	4- 2	17-N-2	1706-6	17NSN7	1701y0	SUN6	dDw
I r PP. cmb	N2 1	4	24	7	6	266U26	dDw
I r PP. cmb	00 2	S	S	7	1	107U21	dDw
I r PP. cmb	0N 2	11	0	y	y	22U22	dDw
I dPdC.	2N 1	1y7101	1N76S6	1N2y04	1N6-N4	7US6	dDw
I dPr p	1S0 1	70-	7y2	7SN	7-N	12U71	dDw
I dPr p	1Sy 1	742	242	2-N	2N1	1yU1S	dDw
I Cocmb	27 2	7704S	72021	777N1	772NS	1U-	dDw
I TpC. Tcmb	N6 1	2SN4	1NSy	1-10	1NS7	1-U02	dDw
I TpC. Tcmb	NN 1	14S-4	11SSy	11216	12Sy7	14US0	dDw
I mPmp	74 1	2NyN-6	2N1y-6	2N4710	2N-706	1U42	dDw
Ar pecmb	1-y 1	yN26746	y-S7y-1	y4S722-	y-00N41	2U71	dDw
Ar pecmb	1-y 2	7y6y-y2	7yS1724	4S2S741	7y670-2	1U-1	dDw
AEsPPcmb	2S7 1	1742	1242	112-	1276	NU00	dDw
AEsPPcmb	2S- 1	7210	7S2-	2ySy	7S-S	-U1S	dDw
Ac	11N 1	1242	1277	1S-S	110-	yU22	dDw
AcTs. cmb	40 1	4-S	410	-SS	4-6	yU21	dDw
Rps. cmb	27N 1	N0-	042	4y2	0S7	20U6y	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Vs. sodmb	- 1 2	27	2S	20	27	14U2y	dDw
YTTr pedmb	102 1	- S	2-	60	40	44U41	dDw
YTTr pedmb	102 2	11	11	22	1-	47U7S	dDw
YTTr pedmb	106 1	11SS	1177	1177	1122	1U01	dDw
YTTr pedmb	106 2	1S666	1S67N	1SN20	1S01S	SUy-	dDw
YTTpdmb	Ny 1	126SNyNy	12SNS646	1227S041	127S60y2	2U21	dDw
YTTpdmb	Ny 2	122yNS-	122- 2- 2	122NS41	12206yy	SU1y	dDw
Zc d	66 2	1- S	1yS	210	1N6	1NUSN	dDw
ZqpdC. dmb	yS 1	y77	62-	N- S	NS7	1yUN0	dDw
ZqpdC. dmb	y1 1	1- N	1SN	1- N	142	2SU7N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	TwiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	aa12a6	aa- a1	a4041S	aaS02u	SRa6	CI I
d. iqe C. E	12171	- 1- 4	- 4S	- 1S	- 210	aR1u	CI I
dIl p. qO	0a72	- SS4	2 ua	- S12	- SSS	SR46	CI I
Bwldpe	1- a71	- 122aS	- 14- 64	- 21- a2	- 1a u	1Ra1	CI I
Bwldpe	1- 071	aa0- 16	aa 4- 6	a64aau	a6S4- 6	SR66	CI I
BplE8dpe	71	1664	16SS	16S2	1622	2R2-	CI I
Bdqe biG	2S 71	6044u6a	6uSSu	6u2aa64	60 S44-	SR61	CI I
Bdqe biG	2S 72	- 102 42	- 20- 6u0	- 2- - a1a	- 22601a	1Ra0	CI I
BICe q p	u171	0661	0 11	0400	06u-	2Ru-	CI I
9 wne dpe	1Su71	201	10	22	226	2SR20	CI I
9 wne dpe	1S671	4S06	41S	4S06	4Su0	SR40	CI I
9 wne dpe	11171	2u00	2 - 6	2 a2	2 21	1R a	CI I
9 w8Ddpe	4- 71	u00 16	u0062S	u6ua0	u040Sa	SR61	CI I
9 w8Ddpe	4471	14611a6	14 S66- 2	14u0- 266	140 01aa	1RS	CI I
9 wIr C.	1271	- a2- 42u	- 6- a6Su	- 010- 04	- 62a40S	2R6	CI I
9 wIr C.	1272	4aSa-	4a- 2S	4aa21	4a2 u	SRa2	CI I
9 G8CIq p	- a71	1S022116	1- u26- 46	162uu20u	1- 612240	2SR4	CI I
9 G8CIq p	- a72	1442-	14 S02	1aaS1a	14 442	- R61	CI I
9 GICe dpe	a272	- 4a	- 41u1	- 4201	- 4- aS	SR64	CI I
9 Cr w8	a 72	- u6 -	- u - -	- Sa0	- uu 4	SR4u	CI I
9 Ct t pI	6- 72	024a4	01 41	0112S	01u- u	SR 4	CI I
TEI t ICI dpe	1a671	412- 1	41- 6a	41- 4S	41- 12	SR10	CI I
TEI t ICI dpe	1a672	10022	10u22	10- 41	1062u	1R44	CI I
UIr dpe	16471	- a140	- 4Sa-	- 41S-	- 44- 4	1R0	CI I
UIr dpe	16472	1- 6S0	14- 14	1- 1	1- 01	2Ra-	CI I
HwnC8q dpe	16S71	- u- - 1	- u004	- u2- 1	- u44a	SR0a	CI I
HwnC8q dpe	16S72	10a12	10002	1u1a	10u14	1Ru-	CI I
h C8e dpe	16a71	6 2u1	- 101S	61- uS	04u- 24	1R6	CI I
h C8e dpe	16a72	416aS1a	41a 201	414S062	41aaS16	SR 1	CI I
& ndpe	11a71	606S- SS	6 S6S0S	6u2004S	6u- 1- 0S	1RS0	CI I
& ndpe	11a72	4S a	4S 26	aa 00	4a 66	SR 2	CI I
&C.	a472	2aS2S01	24aaaua	2446 Su	246u1uu	1R2S	CI I
&C.	a672	46S- 60a1	4- 1402	444aS6Su	44u26200	2R	CI I
&C.	a072	1S04110	1Sa11 1	1Sa 0S	1S61602	1RS	CI I
KIEt iC.	u- 71	2a4	- 11	2ua	2u-	1SR16	CI I
Lpwn	2S671	2266a-	222u- 6	22- 0a4	224414	SRu	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	&I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	TwiwMt8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1u- 6a	1u- 12-	1u6S 6	1u4- a	SRu-	CI I
Lpwn	2Su71	u6 1Su	u62- 40	u04a 1	u6u6u2	SR01	CI I
LqiGdpe	671	2aa2012	2a22 14	24- 24u	2aS4 au	2R a	CI I
y wg. pl dpe	2472	1aa- a66	1au 1u6	1aa2400	1a6aS06	1R -	CI I
y w. gw. pl p	aa72	- - u1S	- u 001	- S0aS	- 1444	SRa4	CI I
y C8Er np. be	471	1S601	1S- 01	1S6S4	1Sa4	1R4	CI I
y C8Er np. be	a71	u011	0 4	uS2u	u244	4R 1	CI I
y C8Er np. be	671	1S- 6-	u0	10S	uS4	6R12	CI I
y C8Er np. be	071	a- 1S	a226	4ua1	a12	4R06	CI I
y C8Er np. be	u71	144aS	1- 21a	1204u	1- 401	6Ra-	CI I
mpCnEe dpe	1aS71	64aa6	6a4	6aS10	6aS24	SR0-	CI I
mpCnEe dpe	1aS72	1 601	2S- 46	2SS62	2SS26	1R6	CI I
mqCkp8	6S72	26S60	2a0aS	261- 0	2a ua	SR0	CI I
NGCI t GCIbI	- 172	2 2	2 SS	2 SS	2 - 1	1Ru1	CI I
NCiwI dpe	- 72	240- 40	24642a	2462- 1	24666u	SR24	CI I
F GCndpe	1S- 71	66011ua	6u6u- au	60- 01u-	60au Su	1R4u	CI I
F GCndpe	1S- 72	- Su a6S	- 1u06u1	- 210 Su	- 16aSaS	2R12	CI I
DCw. ndpe	4a71	444a0Sa	4a1u00S	446- ua2	44061S	SRua	CI I
DCw. ndpe	4a72	1446- u	14142u	14- 261	14- 1S	1R1-	CI I
Dp8p. dpe	u271	1a0	6	124	126	24Ru	CI I
Dp8p. dpe	0072	1S0	uS	S	2	14R61	CI I
Dp8p. dpe	0u72	64	0u	6	0S	1SR8	CI I
Dq8qC.	2u71	1- 6 4a-	1- a404a6	1- a2u01-	1- a 1u04	SR6	CI I
Dq8vpI	1S071	2 60	2uS	2u10	2u64	- R1	CI I
Dq8vpI	1S 71	26- 4	2610	202a	26a	2R1	CI I
DCndpe	2- 72	0 2a0	0 - aS	0611a	0u24S	2R a	CI I
DiIC. idpe	u671	2aS016	2a1062	2a1 10	2a146a	SR26	CI I
DiIC. idpe	uu71	226S4 1	22 a000	22 - 41S	22u- 226	SRu6	CI I
Db8bI	- 471	2 4 20	2 026-	2 - 2S	2 a1- -	SR6	CI I
cpIr dpe	1a 71	6ua00	1SS2 14S	00u- u6	2a- 6u	1R 2	CI I
cpIr dpe	1a 72	4S4u1- -	4S1- 6 u	4S6006	4S4- 2SS	SR6u	CI I
cGw8dpe	2S- 71	- a42	- aS1	- 4S	- 4u4	1R 6	CI I
cGw8dpe	2Sa71	Sa-	u - 0	u64a	uu0u	2R 0	CI I
cq	11u71	46S	4026	4aS1	4612	2R44	CI I
cqiw. dpe	4071	44 1-	46S 1	4a- 4S	4a44u	1R 1	CI I
5 Iw. dpe	2- u71	a64S	aa- 46	aa- 1-	aa6u	1R12	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwOICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	T wiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	a172	64a14	6a- 12	6- - S	644Sa	1RaS	Qt l
Yiiplr dpe	10271	u0	- 0	62S	u4u	2RS2	Qt l
Yiiplr dpe	10272	a22-	46S6	46a6	4u2	0R1S	Qt l
Yiiplr dpe	10671	066	0044	0S 4	0aS2	4R04	Qt l
Yiiplr dpe	10672	142Su	14141	144uS	14206	1R26	Qt l
Yiildpe	u 71	126uau14	12 ua61S	1- 24SuS2	12 0S042	2R14	Qt l
Yiildpe	u 72	12 26u4	1- u62uS	1- S- 20-	1- 20412	- Ru6	Qt l
Zq O	6672	4a 2u	4a00S	4a2- a	4a644	SRuS	Qt l
ZdqOC. dpe	S71	1a2a	1020u	16600	164S4	6R 2	Qt l
ZdqOC. dpe	171	- 210	- 6u4	- a42	- 4u1	6Ruu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	60S- - y	601806	6616h2	660h68	SU32	ql s
c n&AmonE	12171	6y68	606h	6- h-	6y00	2U3y	ql s
c rsenAq	0y72	y62S	yy8-	y614	y6Sy	SUJy	ql s
BarAum	1- y71	y8h04y	yhyy1-	yh841S	yh4yy6	SU04	ql s
BarAum	1- 071	1SySy22	1S4h140	1Sy- 004	1Sy1148	SU2-	ql s
BerEllAum	h71	2hS6	28yS	200h	284y	2U2y	ql s
BAsmu&G	2Sh71	0S84680	01y4y- h	68y2001	0S- S66y	2U2y	ql s
BAsmu&G	2Sh72	- 2hh640	- 206hSS	- 2- 64h2	- 201S1-	SUh8	ql s
BromAne	8171	6hh4	0- y2	8S61	046h	0U20	ql s
RaOmAum	1S871	4y4	- - -	- 0h	- 8h	1yU6h	ql s
RaOmAum	1S671	4484	4- S1	4484	442-	2UJ h	ql s
RaOmAum	11171	42y2	4668	4yyy	44h2	4U0h	ql s
RalqAum	4- 71	8S6S- -	82yh21	821yh0	8108yS	1U28	ql s
RalqAum	4471	1- 8SS2h2	14S- yS68	1- 8- yh86	1- 8hS44h	SUh1	ql s
Rarbon	1271	0S868y2	04y- 2h-	0y- 0h- S	0- yh- y8	- U26	ql s
Rarbon	1272	hS8- h	hSy- 0	hS- 8y	hSy80	SU2y	ql s
RGlorAne	- y71	18S111h0	21h04- S0	241- 824-	21- 04y82	14Uy4	ql s
RGlorAne	- y72	18y4h4	1h1y0-	1hy0hy	1hShy4	2U01	ql s
RGromAum	y272	4068h	48Sy4	466- 2	404y8	1Uy6	ql s
Robal&	yh72	- h0hh	4S- h4	4SS1S	4SS60	SU0y	ql s
RolI er	6- 72	1y004h	1y8S1y	1y4- 1h	1y66hy	1UJ2	ql s
t EsI rosAum	1y671	648- 4	6y60S	64- 64	64hy6	1US2	ql s
t EsI rosAum	1y672	26h40	26h11	26S6h	26642	1U36	ql s
. rbAum	16471	yS1S-	y1861	y1S4h	y1SS4	1U02	ql s
. rbAum	16472	2S06-	2S4S2	2SS8y	2S410	1U66	ql s
HaOolAnAum	16S71	y6yh6	y6h8h	y6S6h	y6yy1	SU32	ql s
HaOolAnAum	16S72	266- 0	20- 41	2641-	260h0	1U31	ql s
9 olmAum	16y71	1S1S41hy	hhh1- 20	h82- h0h	hh0- 160	1U41	ql s
9 olmAum	16y72	42y8y18	42422S8	41- 0y2h	42120y2	1Uy6	ql s
DnOAum	11y71	0268101	01y8280	0116S42	018S8- 4	1USh	ql s
DnOAum	11y72	hy44hy	h4- h8S	h466- 6	h48- 0S	SUy8	ql s
Don	y472	24- - 1hS	24066y1	242h006	2446y- h	1US0	ql s
Don	y672	44S2h112	4- y4- - 88	4- 4840h-	4- 68y064	SU68	ql s
Don	y072	1S4yS4h	1S4yh1h	1S4h8S1	1S46h2-	SU24	ql s
KrEl &on	8- 71	- - y	- yS	2hh	- 28	8US-	ql s
LeaO	2S671	22y2066	221yS- -	21hhS68	222228h	1U24	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	180yh21	1824- 1-	10h2h06	18- 1S0S	2U2h	ql s
LeaO	2S871	80S02- 8	86- - h10	8yS48h-	861y- 4h	1U1h	ql s
LA&GAum	671	2y168y2	2y0y41y	2y4hSS8	2y40Sh1	1U1y	ql s
5 agnesAum	2472	11- 068S	114- 1- 0	11y6- - 4	114y010	SU34	ql s
5 anganese	yy72	h46048	hyyhS0	h44- 86	h4hS14	SU64	ql s
5 olEbOenum	h471	1606h	10hhy	1826-	10606	4Uy1	ql s
5 olEbOenum	hy71	0y6h	0h86	0- h4	06yS	- Uh8	ql s
5 olEbOenum	h671	11S- 8	1Sh1-	h6y4	1Sy- y	0U20	ql s
5 olEbOenum	h071	48Sh	484-	4hyh	480S	1U62	ql s
5 olEbOenum	h871	12yy6	12- h8	12y48	12ySS	SU01	ql s
NeoOEmAum	1yS71	1S6446	1Sh42h	1S8126	1S8SSS	1U-8	ql s
NeoOEmAum	1yS72	- 220h	- 261S	- 2h- S	- 26S6	1USS	ql s
NAqkel	6S72	22- S4	221h1	22444	22- 1-	SUy0	ql s
PGosI Gorus	- 172	110h0	11040	11- Sy	11616	2U-	ql s
Po&assAum	- h72	6h6- 8y	6h8040	0SyS16	0SSS4h	SU64	ql s
CGoOAum	1S- 71	0S2661S	02282- -	0S26182	0Sh- 60y	1U64	ql s
CGoOAum	1S- 72	- 210681	- 166040	- 102- 1-	- 18yy81	SU38	ql s
pqanOAum	4y71	468hyy8	4yyh- 02	46h- yy8	46404h6	1U64	ql s
pqanOAum	4y72	14- - h1	14- - S0	141S0y	142yh1	SUh2	ql s
pelenAum	8271	1- 2	h1	160	1- S	2hU20	ql s
pelenAum	0072	h-	h0	110	1S2	12U-y	ql s
pelenAum	0872	1SS	81	h4	h2	1SUyh	ql s
pAAqon	2871	144188y4	14484214	14y0- - 08	144h214h	SUy4	ql s
pAver	1S071	0686	0000	0844	006h	1USS2	ql s
pAver	1Sh71	6h6S	021h	686h	0S16	2Uyh	ql s
poOAum	2- 72	602h0	6y04h	641h1	6y046	2U-6	ql s
p&on&Aum	8671	yh112-	yh8222	yh- 2S4	yh418-	SU61	ql s
p&on&Aum	8871	y4S4h11	y- y6248	y264426	y- 41862	1U-4	ql s
pulfur	- 471	- 418yy	- 462h2	- 42112	- 4- 42S	SU0-	ql s
i erbAum	1yh71	1S24y- 6h	1S224yy-	hh- 2S00	1S1- 4SSS	1U0-	ql s
i erbAum	1yh72	4Sy428-	4Shh8yS	- h68- 14	4S4S816	1U6y	ql s
i GallAum	2S- 71	- S- 4	200y	20yS	28y-	yUyS	ql s
i GallAum	2Sy71	6468	688y	6hS2	60y2	- U64	ql s
i An	11871	- 0y08	- 0S- 4	- 6hS1	- 0101	SUh6	ql s
i A&anAum	4071	1yh- 02	16421-	162024	1621S-	1Uy-	ql s
MranAum	2- 871	y1S- 6	ySh- 6	y1- 8S	y1110	SU46	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	68h28	6844h	68h2y	68068	SU4S	ql s
Y&erbAum	10271	1y4yh	1yS84	1y- Sh	1y284	1U24	ql s
Y&erbAum	10272	0y0y	0- - y	062y	0y12	2US6	ql s
Y&erbAum	10671	11S88	11y- S	1S06-	11120	- U46	ql s
Y&erbAum	10672	16- Sy	161- 2	1y1y-	1y86-	- Uh1	ql s
Y&&Aum	8h71	1- yhh- 6-	1- 46h62h	1- 4S- yh4	1- 4hS862	SU04	ql s
Y&&Aum	8h72	14SyS11	1- 2- - 6y	1- 164- 1	1- 4826h	- U6y	ql s
ZAnq	6672	1616h1	1yh8S8	1yhy1y	16S- - 8	SU04	ql s
ZAqonAum	hS71	- - 00y	- 6166	- y- 80	- y1Sh	- U40	ql s
ZAqonAum	h171	82y-	81y-	006h	8Sy8	- U10	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	hh- 02h	h48y6y	h42424	h48- 0-	1US-	ql s
c n&AmonE	12171	40h1	46S1	4y68	400-	- U36	ql s
c rsenAq	0h72	hS4h	hS4y	4y8y	hS28	SU60	ql s
BarAum	1- h71	4yyh44	4y202-	4yS4y6	4y42h4	SUyh	ql s
BarAum	1- 071	8hy81y	804422	8h- y1y	86202S	1U22	ql s
BerElAum	y71	2- 8h	2462	24y6	2448	2U-	ql s
BAsmu&G	2Sy71	6084y- 1	60h0Syy	0SS8006	68hS26y	2US1	ql s
BAsmu&G	2Sy72	- 204S62	- 2- 88y6	- 26000-	- 26S244	SUh8	ql s
BromAne	8171	081y	0844	81S-	0y22	1Uy8	ql s
RaOmAum	1S871	260	20h	20h	202	1U00	ql s
RaOmAum	1S671	4- S1	41hy	46hy	4- 0-	hU8y	ql s
RaOmAum	11171	- y- 6	- y86	414y	4S24	2U00	ql s
RalqAum	4- 71	- - 48yy	- - - - Sy	- - 4S64	- - 4Sy1	SU24	ql s
RalqAum	4471	h02S102	h606S46	h60- 46h	h68y8yh	SU46	ql s
Rarbon	1271	- 8y0- 28	- y- yyS-	4S86y46	- y04026	2UhS	ql s
Rarbon	1272	hS68S	481- 8	48- y0	4yS02	2U8h	ql s
RGlorAne	- h71	2S6SS11h	24h116- 6	264- 1821	2- 8408h0	12U46	ql s
RGlorAne	- h72	1y888h	2Sh24S	2S8S- S	2S4Sh2	2U S	ql s
RGromAum	h272	- Syh4	- 12- 4	- S22y	- S8Sh	1U68	ql s
Robal&	hy72	- yh1h	- yh4h	- y44h	- yhS1	SU1-	ql s
RoI I er	6- 72	12101S	11y11h	11yy18	12S240	1U1S	ql s
t EsI rosAum	1h671	h8486	h64S-	h0- 4y	h041-	1U82	ql s
t EsI rosAum	1h672	24- 22	2- 2yS	2206S	2- 4h0	- Uy	ql s
. rbAum	16471	40226	44606	4h61-	4h8- 8	2U81	ql s
. rbAum	16472	18h06	1826y	100Sh	18184	2U4-	ql s
HaOolAnAum	16S71	hS6Sh	h1124	h1S81	hSy- 0	SUh0	ql s
HaOolAnAum	16S72	2- 08h	2416y	2- 8S1	2- y18	SUy1	ql s
9 olmAum	16h71	y41y46-	y612S26	y8h248h	y620yy1	2U2h	ql s
9 olmAum	16h72	41yS- 00	42S6244	4142- 14	410y64h	SU8S	ql s
DnOAum	11h71	6y0S2yy	0S- 128S	0S46- 8y	0S1hy8y	SUh0	ql s
DnOAum	11h72	yh6482	yh11S4	y- hh8S	y40022	1U1h	ql s
Don	h472	2S6S- 8h	2Sh1- 6S	2S44hS8	2Sh2S8h	SUy	ql s
Don	h672	- 00- 2SS2	- 6828- 2-	- 6h0S6- 8	- 0S4- 6hh	1U6h	ql s
Don	h072	88S4y8	88- 8h6	86688S	800S08	1US2	ql s
KrEI &on	8- 71	- S6	- 42	- S1	- 10	0U11	ql s
LeaO	2S671	1hS4206	160y16h	16y- 06y	162h0- 0	6U4y	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	12611h-	120h8S2	1261811	12662hh	SU6h	ql s
LeaO	2S871	6- 26641	64h- 2Sy	661- 68S	6464h1S	2U2-	ql s
LA&GAum	671	2h24- h4	248226h	2h1- h6h	2hS6028	SU80	ql s
5 agnesAum	2472	h8- y8y	h0y11h	h6048h	h0686-	1U40	ql s
5 anganese	hh72	8Sy8yS	8SS402	0y26- 8	8S1SSS	1US8	ql s
5 olEbOenum	y471	1h826	164S2	16S6S	16Sy6	1U8S	ql s
5 olEbOenum	yh71	hy1S	61y-	hy18	6SS0	2U6y	ql s
5 olEbOenum	y671	86S-	8hh-	880S	860h	1Uy6	ql s
5 olEbOenum	y071	- 842	- 810	- 0y2	- 810	SU66	ql s
5 olEbOenum	y871	1S401	y8yh	8y2S	y062	8US-	ql s
NeoOEmAum	1hS71	y242-	y- 684	yh- - S	y- 812	1Uh	ql s
NeoOEmAum	1hS72	284hS	28yy8	2001y	28- 8y	2U26	ql s
NAqkel	6S72	1yy81	2S4- 8	2SSh1	2S1h0	1U22	ql s
PGosI Gorus	- 172	8y- 6	8h44	yS0S	88hS	- USy	ql s
Po&assAum	- y72	hSh024	hS6- 8S	4yyyh6	hS4S2S	SU0S	ql s
CGoOAum	1S- 71	666y61S	0S42S48	0S4S- - 0	6y10- - 2	- U1S	ql s
CGoOAum	1S- 72	- 21S8- 0	- 2S28- 8	- 2S0144	- 2S6y4S	SU12	ql s
pqanOAum	4h71	4- - SyS1	4hh4811	462S2y0	4hS2SS-	- Uy0	ql s
pqanOAum	4h72	142- 14	1428S1	14- h00	1428y0	SU4h	ql s
pelenAum	8271	11y	11S	1hh	128	18U6h	ql s
pelenAum	0072	11S	1- -	6-	1S2	- 4U80	ql s
pelenAum	0872	82	81	04	0y	hUh2	ql s
pAAqon	2871	14S0S08-	14264041	14- hy26y	142- 1hy8	1US-	ql s
pAver	1S071	h2Sy	h4S1	h0h1	h4h4	hUS4	ql s
pAver	1Sy71	h468	h2y-	h468	h41S	1U80	ql s
poOAum	2- 72	hh4S6	hh48y	hh1y0	hh- 64	SU20	ql s
p&ona&um	8671	20h8S1	2008h2	20- 286	20h646	SU8-	ql s
p&ona&um	8871	2h88h0y	24y1416	2h4- h40	2h41181	1Uy1	ql s
pulfur	- 471	2y0S24	2y- Sy6	28yh- 6	2y- 21y	1U28	ql s
i erbAum	1hy71	yhSh- 40	1SS66h8-	1SSyh108	y88yS- 6	- Uy6	ql s
i erbAum	1hy72	4116h66	4144h22	4S6- 22h	41S81S4	1US1	ql s
i GallAum	2S- 71	22y2	2110	2h42	2- 10	yU22	ql s
i GallAum	2Sh71	h41S	h268	h- y-	h- h0	1U4h	ql s
i An	11871	- 0S60	- 82y6	- 0y86	- 008-	1U6y	ql s
i A&anAum	4071	110826	11y421	12Syy1	11y41-	1Uy-	ql s
MranAum	2- 871	h1hy0	4y2S4	h1- Sh	hS0S2	2Uh0	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	6260-	618y-	6- Syh	62hh4	SUy0	ql s
Y&erbAum	10271	1- 604	1- 816	1- 4y1	1- 66S	1U1y	ql s
Y&erbAum	10272	6624	642y	6S6-	6- 02	4U40	ql s
Y&erbAum	10671	1S288	1SS12	1S2S4	1S168	1U-y	ql s
Y&erbAum	10672	1hSy8	1h- 81	1461y	1hS- -	2Uh6	ql s
Y&&Aum	8y71	1- S2- hh-	1- 204486	1- 2- 22SS	1- 106046	1US2	ql s
Y&&Aum	8y72	1- 881yS	1- 141hS	1- 2- h2y	1- 41yh6	- USS	ql s
ZAnq	6672	1S0h20	1Sh466	1Sh4y-	1S6162	1U11	ql s
ZAqonAum	yS71	- 4hy4	- hySh	- 4800	- h12h	1Uy6	ql s
ZAqonAum	y171	0061	8S08	8hyh	8144	hU10	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 R CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMR

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb cOcmb	2072	J- N221	J- . 0. N	J4- - 12	J4S444	SR4N	dDw
qCTb nCE	12171	NS0N	N244	NS1.	N114	1R44	dDw
qpwr Ccd	0J72	. 22-	. 101	. S6-	. 1J2	SRN	dDw
Bspcmb	1- J71	J4JS06	J601J-	J02611	J6161-	2R6S	dDw
Bspcmb	1- 071	. 02111	1S2JS. N	1SS0- N1	1SS1J- S	2R6.	dDw
Br pEPmb	. 71	2. 06	- S. 1	- 126	- S6J	2R16	dDw
Bcwb mTG	2S. 71	0J. S1JS	022SS14	6. 641JJ	02JN1S6	4R 4	dDw
Bcwb mTG	2S. 72	- 26N- 6J	- 240J1S	- 2SNN- 6	- 241J01	SR -	dDw
Bpmb cOr	N171	6J6S	6J20	6N. 4	666S	- RSJ	dDw
9 sob cmb	1SN71	410	42.	42J	424	1R1S	dDw
9 sob cmb	1S671	4. N4	4JS1	4NS1	4062	JR1-	dDw
9 sob cmb	11171	- 4N2	- N2J	- 00.	- 6. J	JRS4	dDw
9 sPlcmb	4- 71	01S. 1-	0- . SN0	04S. - 0	0- S- 12	2R S	dDw
9 sPlcmb	4471	11NJ01- N	12- 0- 16.	12016446	12- 1JJN4	- R1	dDw
9 spenC	1271	4- 24NN2	444J1NS	4404SN1	4414014	1R0.	dDw
9 spenC	1272	JJ201	J6. 20	J4. 0N	JJ026	1RN	dDw
9 GPmpcOr	- J71	2S6N. S4J	2400J- S0	2602- - J-	24S62J6N	12RNS	dDw
9 GPmpcOr	- J72	1. . 0- N	2S26- .	2S0JN1	2S- - 1.	1R J	dDw
9 Gpmb cmb	J272	41SS.	4S6N4	41S- 2	4S. SN	SR4N	dDw
9 nesFT	J. 72	- J- S4	- J204	- 6460	- J6N1	1R 1	dDw
9 nDDr p	6- 72	211. 10	2S. 4. N	2SN4. .	2S. . 01	SRN4	dDw
&EwDpnwcmb	1J671	0JJ- .	NSSN2	0. N4N	0N4. S	- R26	dDw
&EwDpnwcmb	1J672	- 246-	- 2. 10	- 1. 12	- 24- 1	1R1J	dDw
Upecmb	16471	JJ. NJ	JN0. 0	6S1N0	JN- 2-	- R60	dDw
Upecmb	16472	2- - 61	22. N-	2- - 24	2- 22-	SR S	dDw
HsonRCcmb	16S71	6JSS1	6NSJN	60446	66N- J	2R42	dDw
HsonRCcmb	16S72	- 166N	- 1JN1	- 1621	- 162-	SR14	dDw
h nPb cmb	16J71	1S411- N1	1SSS140J	. N42266	1SSNJS41	2R 1	dDw
h nPb cmb	16J72	424461S	4SNJ44S	4140- 0J	41J. 141	1R -	dDw
tCocmb	11J71	0JN0161	02S60N4	0S- 6- 21	02060JJ	- RNN	dDw
tCocmb	11J72	. 4- 061	. 26NS0	. - 1NS6	. - 412J	SR -	dDw
tpnC	J472	224N4. 4	2201J4J	22J. J2-	22J. NJ4	SR1	dDw
tpnC	J672	41- 64SN4	41SJS4. -	- . . 21. 61	4S00NN46	1RN6	dDw
tpnC	J072	. 01660	. 0. N10	. 6111N	. 0SN60	SR 0	dDw
KpEDTnC	N- 71	- 10	- 26	- J6	- - -	6R1S	dDw
Lr so	2S671	1214- - -	1244NN0	1200116	124J44J	2R12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Cr Tusb r:	8 N
9 Pr CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMPb

8spsb r Tp	y sww	98l 1	98l 2	98l -	98l y r sC	98l Fl &	5 CdTw
Lr so	2S071	1S1JN11	1S46S. 4	1S624- 0	1S41440	2P20	dDw
Lr so	2SN71	JS0S226	J2S0N14	J- J- S. 0	J21S- 0.	2P01	dDw
LdTGmb	671	20S1J06	24JN6- -	2JS. - 4S	2JJ6J16	JPS1	dDw
y sgOr wcmb	2472	1J41S24	1J- 1014	1JS2N. 6	1J2J211	1P. S	dDw
y sOgsOr wr	JJ72	1S- S4SS	1S16460	1S100S2	1S21J2-	SP06	dDw
y nPEeor Cmb	. 471	244- S	26JN4	26026	2J. 14	4P. 6	dDw
y nPEeor Cmb	. J71	11014	12S40	11. 22	11N. 4	1P42	dDw
y nPEeor Cmb	. 671	1JS. 2	162NJ	16SJ1	1JNS.	4PSS	dDw
y nPEeor Cmb	. 071	6JNJ	0- 00	0J61	0104	0P2-	dDw
y nPEeor Cmb	. N71	1NS2.	1. 1. 0	1. J14	1N. 1-	4P14	dDw
ur noEb cmb	1JS71	12. 0J6	1- 0. 6-	1- 6S4.	1- 4JN.	- P1.	dDw
ur noEb cmb	1JS72	4SJ1N	- . . - -	4SJ4N	4S- - -	SPN6	dDw
ucdkr P	6S72	2- 4- 6	2- 20-	2- J06	2- 42N	SP6J	dDw
8 GhwDGhpmw	- 172	644-	61- J	J606	6SNJ	6P. 4	dDw
8 nTswwcmb	- . 72	- J- 6. .	- 41N62	- 4441S	- 466J0	1PNS	dDw
F Ghocmb	1S- 71	0406. . -	0S60- NS	6. 0. - NN	0104JN0	- P0S	dDw
F Ghocmb	1S- 72	- 10S00-	- S6S. 4-	- 1N1N0S	- 1- 0N62	2P1-	dDw
I dsCocmb	4J71	4. N22J2	4J2- . S0	4640021	4010. 6S	JPS-	dDw
I dsCocmb	4J72	141. 4S	1- . 144	1- . 6- N	14S241	1PS6	dDw
I r P Cmb	N271	21J	10J	1NJ	1. 2	1SPN6	dDw
I r P Cmb	0072	140	110	140	1- 0	12P60	dDw
I r P Cmb	0N72	12J	1SJ	11.	116	NPN2	dDw
I dPdnC	2N71	124N4. 6J	1- 11024.	12. - 24. N	12N44. S4	2P1-	dDw
I dPr p	1S071	0620	NJJ-	N22N	N1- 6	JP00	dDw
I dPr p	1S. 71	0. 44	N- S-	N11.	N122	2P21	dDw
I nocmb	2- 72	11040.	110. N-	110NN2	1100N1	SP2-	dDw
I TpnCTcmb	N671	- . 206-	41212J	4112. 2	4SJ- . -	2P0S	dDw
I TpnCTcmb	NN71	- J- 4J66	- 66N2. 6	- 06. 2N0	- 6J0- N-	- P22	dDw
I mPmp	- 471	- S0JN1	- SN- NN	- S0. 0-	- S0. N1	SP1-	dDw
Ar pecmb	1J. 71	1SN. SSNN	1S1. - J6J	1SS6. 260	1S- N4- S0	4P26	dDw
Ar pecmb	1J. 72	4S62S. 4	41SSS- 2	4S220JS	4S6162J	SP. J	dDw
AGsPbmb	2S- 71	22J.	24. 2	26N4	240N	NP1.	dDw
AGsPbmb	2SJ71	6SS2	6- 4-	62. -	621-	2P. 0	dDw
AdC	11N71	2044J	2. 21J	2NN4N	2NJS2	- P2N	dDw
AdSCmb	4071	16N2N-	101101	1042S2	10121.	1P0-	dDw
5 psCmb	2- N71	NS60-	N4JN2	NNJ- -	N4J. 6	4P6J	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 Rr CTI sb DP t&:	y h SMJS	&dPnTcnC MsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMRo

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	J172	6J120	6J4S2	64. - S	6J1J-	SR6	dDw
YTTr pe omb	10271	16- NJ	1024J	10- S-	16. 0N	- RS-	dDw
YTTr pe omb	10272	N10J	N1- S	0NJ2	NSJ-	2R10	dDw
YTTr pe omb	10671	11N02	12- S6	11J02	11. 10	- R1S	dDw
YTTr pe omb	10672	16101	16S21	162JJ	1614.	SR0-	dDw
YTTpomb	N. 71	14S62J61	1- NJ- JJ2	1- JSJN2.	1- NS0- 14	2RS4	dDw
YTTpomb	N. 72	14SS422	12. 6SN0	1- S0S12	1- - 4JS0	4R S	dDw
ZdCd	6672	14114J	1- . 1. 0	1- N416	1- . JN6	1RS1	dDw
ZqpdnComb	. S71	JS442	J26SS	J1. 02	J1602	2R1J	dDw
ZqpdnComb	. 171	111. 6	122- 1	12S64	11N- S	4R3.	dDw

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Inst Id :P8

LB umb er S:	LB1264O3	5 I r SstoS:	aswl sP
Lse psb I P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb I P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
APmb inimb	23O2	- 6- 4N4	- 646- O	- 611JN	- 6- 1O4	O.4N	cl w
Antib on9	12101	NyN	11OO	N42	J- -	1y.4J	cl w
ASvr nic	3yO2	14- J	1- 4J	1- yJ	1- N-	- .y3	cl w
BsSmb	1- y01	- - - J3y	- - 3N3O	- - - 622	- - y1y6	O.3O	cl w
BsSmb	1- 301	yJyN42	yJNNO6	yJ6y- -	yJ3O6O	O.26	cl w
Br S9PPmb	J01	- - 21	- y11	- 4NJ	- 44O	- .O2	cl w
Biwb mth	2OJ01	6yN3y11	63y4NJ1	6J241ON	63yyyO-	2.4J	cl w
Biwb mth	2OJO2	- 1NN4- y	- 2O4N1y	- 142364	- 13N631	1.O1	cl w
BSob inr	N101	6- J-	6yy2	636O	6y6N	2.NO	cl w
Csdb imb	1ON01	12y	J2	1OO	1O6	16.4-	cl w
Csdb imb	1O601	44N4	4O- 4	42N4	4263	y.2J	cl w
Csdb imb	11101	1444	1- 3-	1yON	1442	4.31	cl w
CsPeimb	4- 01	1O31Oy	1OyJJ6	1O6N6y	1O66y6	O.yy	cl w
CsPeimb	4401	1N4yN4J	1N2J- 21	1JO64NJ	1N6Oyy-	2.1N	cl w
CsSeon	1201	- 2- 636N	- - - 6314	- 26yOO2	- 23J4J4	1.y3	cl w
CsSeon	12O2	4O1Oy	- J412	- J4J6	- J631	O.Jy	cl w
ChPSnr	- y01	144416N2	1yNN2Ny6	16y6N6yO	1y6- 1O6-	6.Jy	cl w
ChPSnr	- yO2	11N3OO	12O1NO	11N313	11J1JJ	O.31	cl w
ChSob imb	y2O2	12O2J	1221y	11NN2	12O42	1.- J	cl w
CoesPP	yJO2	13413	13- 61	13- 34	13- N4	O.13	cl w
Col I r S	6- O2	- 1y- N	- 1- 4y	- 1O63	- 1- 13	O.36	cl w
X9wl Sbwimb	1y601	1N12y4	1N4O14	1NO12O	1N13J6	1.1O	cl w
X9wl Sbwimb	1y6O2	346J3	36- 11	3- yJN	34N6J	1.N2	cl w
ESeimb	16401	14N432	14J423	1y221O	1yOO- 6	1.2J	cl w
ESeimb	164O2	6O33y	61O4J	6O- N3	6O3- 3	O.yy	cl w
GsdoPhimb	16O01	14NJO1	1yy614	1y- 3NJ	1y236N	2.23	cl w
GsdoPhimb	16O02	32- yN	31- 6-	31- 66	316J6	O.NO	cl w
HoPb imb	16y01	J2N3J1O	JyJ32N4	JJ6432O	J6166- N	- .y2	cl w
HoPb imb	16yO2	421NN3N	426O64-	4O3- 11J	41N421-	2.- y	cl w
Dndimb	11y01	63NJ2- N	6N2332N	3OyN4- -	6NJ1NOO	2.11	cl w
Dndimb	11yO2	J4N- J4	J4J16O	J- 6N2-	J443J2	O.3-	cl w
DSbon	y4O2	1N363y6	1J- 2424	1JO62- O	1JOy1- 3	1.46	cl w
DSbon	y6O2	- - 263326	- 4- 6J44N	- - 3- yy3O	- - 3JOJ1y	1.64	cl w
DSbon	y3O2	3JN- 22	NOO62O	NOJN26	NO2J2-	O.36	cl w
KS9l ton	N- 01	4yy	4- O	4y3	443	- .4O	cl w
Lr sd	2O601	2O- JyO	2O62J3	2Oy16N	2Oy1- J	O.y3	cl w

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Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	C8 p 1	C8 p 2	C8 p -	C8 p Mr sn	C8 p RpX	Unitw
Lr sd	2O301	16JN1N	13O1J4	13OO- 3	13OO16	O.11	cl w
Lr sd	2ON01	N16N22	N1J3NJ	N1N46J	N1N- 6O	O.1N	cl w
Lithimb	601	24J- - 14	24N4164	2y4NOJO	2yONy22	1.- N	cl w
Msgnr wimb	24O2	- 11N2N	- OJ1J2	- O6- y-	- OJ124	O.NJ	cl w
Msngsnr wr	yyO2	1136- 1O	11Ny3NJ	11664- 6	113613J	O.N2	cl w
MoP9edr nmb	J401	62- y	3OJ4	64O2	6y33	6.J2	cl w
MoP9edr nmb	Jy01	4- O1	4y26	44y1	4426	2.yJ	cl w
MoP9edr nmb	J601	y326	y6O1	y6O1	y64-	1.2N	cl w
MoP9edr nmb	J301	2JN4	26N4	- 1OJ	2J2y	3.43	cl w
MoP9edr nmb	JN01	31J4	311O	3O6O	3121	O.Jy	cl w
u r od9b imb	1yO01	- 1NOy4	- 2N- - O	- 2JJ3-	- 2y4y2	1.JN	cl w
u r od9b imb	1yO02	J3- - 3	JNOyO	J3363	J331N	O.- 3	cl w
u ickr P	6O02	N2J2	N- - -	N- y6	N- 23	O.- N	cl w
8 howl hoSmw	- 102	1313	1yJ2	1y13	16ON	6.2N	cl w
8 otswwimb	- JO2	- 4y242	- yO1N1	- - JyO2	- 44J3y	1.yy	cl w
Rhodimb	1O- 01	6N13O11	6N6JNJN	6N1262J	6N- - 13J	O.43	cl w
Rhodimb	1O- O2	- 22J32-	- 216NyN	- 142O6J	- 1J6216	1.4N	cl w
pcsndimb	4y01	42- 34N6	4- N- y4y	4y13J14	4- 3J64N	- .2O	cl w
pcsndimb	4yO2	142y2J	14- O14	1- JJ61	141N- y	1.16	cl w
pr P nimb	N201	13y	22J	1N3	1J3	14.23	cl w
pr P nimb	33O2	- yO	- 13	- 43	- - N	y.44	cl w
pr P nimb	3NO2	211	21O	22O	214	2.yN	cl w
piPcon	2N01	32J1O4-	312yNNy	312- J63	31NO2JN	1.- 4	cl w
piPr S	1O301	11ON	1- 13	11- -	11N6	J.yJ	cl w
piPr S	1OJ01	113y	1113	1OOO	1OJ3	N.12	cl w
podimb	2- O2	2N4y-	233- y	2NO23	2NO32	1.2J	cl w
ptSontimb	N601	NO44J	N4- 43	N12- 3	N2O11	2.y1	cl w
ptSontimb	NN01	3OONO4	31113-	3OON2J	3O426J	O.Ny	cl w
pmPmS	- 401	233O43	231463	231111	23- 2ON	1.22	cl w
Tr Seimb	1yJ01	J- yJ2JO	JNyO1JO	JNJ4y24	J3O1- - y	- .O6	cl w
Tr Seimb	1yJO2	4O3O16O	4O4- yy-	4O1JyJ-	4O444- y	O.6-	cl w
ThsPPmb	2O- 01	1JyJ	2O42	1342	1J14	N.OJ	cl w
ThsPPmb	2Oy01	4yO1	4y1N	44O1	443-	1.41	cl w
Tin	11N01	N211	Ny3O	Nyy-	N444	2.4O	cl w
Titsnimb	4301	21JO14	22- y3y	222162	221yN4	1.Oy	cl w
USsnimb	2- N01	4J34O	4JJON	yOy- y	yOO61	O.N4	cl w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
Vsnsdimb	y1O2	214OJ	224ON	213- O	21N4J	2.- -	cl w
Yttr Seimb	13201	4y13O	461NJ	461N2	4yN43	1.2N	cl w
Yttr Seimb	13202	21- y6	213Ny	21y2-	21yyy	1.OO	cl w
Yttr Seimb	13601	2JO- -	- O- 61	2J- - -	2Jy3y	2.- y	cl w
Yttr Seimb	13602	241y6	2yJ4N	2yOy3	2yOy4	- .yN	cl w
YttSmb	NJ01	14133y2y	14y623NO	14y12N- 1	14413312	1.4y	cl w
YttSmb	NJ02	1yyJN1N	1y263y2	1y1- N4-	1y- - 431	1.yy	cl w
Zinc	6602	4- NO4	42y- 4	4- J3N	4- 4- J	1.N2	cl w
ZiSconimb	JO01	11246	1O3- N	1ON46	1OJ4-	2.4y	cl w
ZiSconimb	J101	24yO	223y	243y	24OO	4.y4	cl w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 443O04XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDTio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
i lumTiTum	23O2	- n1222	- 89O19	- n6384	- n1OO3	1.91	Aps
i oDTmdoy	1210 1	88-	n29	898	88n	- .3n	Aps
i rseoTA	39O2	149n	1444	1493	1494	O.96	Aps
BarTum	1- 90 1	- 993n2	- 9n686	- 94n92	- 9681O	O.31	Aps
BarTum	1- 30 1	6249- 8	64693n	613138	62n4- 2	2.4-	Aps
BerylTum	n0 1	- 932	- 3- O	- 6n-	- 669	2.29	Aps
BTsmuD0n	2On0 1	3O- 338O	312343O	68481- 8	3OO446-	2.O4	Aps
BTsmuD0n	2OnO2	- 2n468O	2n6O6- 1	26nO1n6	2n818- 6	1O.19	Aps
BrdmTbe	81O1	3O23	3O1O	32- 9	3On1	1.33	Aps
CaqmTum	1O80 1	n2	146	1O4	114	24.nO	Aps
CaqmTum	1O60 1	439n	44- 4	4136	4496	6.96	Aps
CaqmTum	1110 1	1962	1912	1934	194n	2.11	Aps
CalATum	4- 0 1	1122O8	11- O62	114On2	11- 121	O.8-	Aps
CalATum	440 1	1nn4449	2O43O18	1n9n641	2OOO- 68	2.2O	Aps
Carbdo	120 1	- - 93938	- - - 8O19	- - n3349	- - 64446	O.n1	Aps
Carbdo	120 2	41- 13	41129	414n-	41- 11	O.49	Aps
ChldrTbe	- 90 1	12911- 29	141- 4O- n	1912- 8n3	1- n2- O83	n.43	Aps
ChldrTbe	- 90 2	11- 4OO	111- 91	11994-	11- 4- 1	1.89	Aps
ChrdmTum	920 2	12662	12- 6n	1- O3n	123O4	2.81	Aps
CdbalD	9nO2	1826n	138- 1	183nn	18- OO	2.69	Aps
Cdpper	6- 0 2	- OnO3	- O48n	- 1- 88	- On28	1.49	Aps
XysprdsTum	1960 1	186n88	1831- 2	181488	1892O2	1.34	Aps
XysprdsTum	1960 2	39n48	3616-	33292	36494	O.n1	Aps
ErbTum	1640 1	14n9n4	1996- 3	19291O	19298O	1.n8	Aps
ErbTum	1640 2	6O914	9nn81	61n- 4	6O81O	1.66	Aps
GaqdlTbTum	16O0 1	198446	198992	19- - 89	1963n4	1.88	Aps
GaqdlTbTum	16O0 2	3- 32n	34On9	39O9-	342n2	O.n2	Aps
HdlmTum	1690 1	nn1O943	nnnO968	1OO84O82	nnn9O66	O.83	Aps
HdlmTum	1690 2	4411242	- 8628- 8	- 92O36-	- n- 1614	11.4-	Aps
IoqTum	1190 1	6n9n983	3223n64	3OO1618	3O6- O96	2.O4	Aps
IoqTum	1190 2	n3n- 29	868888	38nOO1	83nO31	1O.83	Aps
Irdo	940 2	2On6- 26	2O62O21	21O884-	2O8nO6-	1.16	Aps
Irdo	960 2	- 6942O3-	- 34On36n	- 82666- -	- 34O6198	2.- 1	Aps
Irdo	930 2	83444-	881n82	8nn- 93	889261	1.44	Aps
KrypD0o	8- 0 1	433	466	441	462	4.O2	Aps
Leaq	2O60 1	21n921	2212O9	21- 2nO	218OO9	1.n1	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 443OO4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
Leaq	2O301	138448	1338n6	1829O8	13n613	1.4O	Aps
Leaq	2O801	831O6O	866- 92	86942-	863612	O.- 9	Aps
LTDTum	601	2999243	2696O- 4	2699143	262214-	2.21	Aps
MagoesTum	24O2	- 21OO4	- 11693	- 183- 1	- 131- 1	1.94	Aps
Maogaoese	99O2	124462-	12- n428	1284O23	1296O26	1.n4	Aps
Mdlybqeoum	n401	6623	66O2	6289	69O4	2.n-	Aps
Mdlybqeoum	n901	9O84	4936	48O1	482O	9.2n	Aps
Mdlybqeoum	n601	9n- 9	9336	9689	93nn	2.18	Aps
Mdlybqeoum	n301	2842	28On	2339	28On	1.1n	Aps
Mdlybqeoum	n801	3944	366n	3911	3939	1.1O	Aps
NedqymTum	19OO1	- 29- On	- 2n693	- 18196	- 24- 34	1.3n	Aps
NedqymTum	19OO2	1OO- 6n	n3336	nn9- O	nn229	1.- -	Aps
NTAkel	6OO2	83- -	831-	839n	83- 9	O.23	Aps
Phdsphdrus	- 1O2	1413	14- -	19O8	149-	- .- 6	Aps
PdDassTum	- nO2	- 2n- 46	- 231OO	- - 9OOn	- - O489	1.2-	Aps
RhdqTum	1O- 01	3119Onn	3241n38	3162933	313- 218	O.8n	Aps
RhdqTum	1O- O2	- - 3O- 39	2n- 493-	26669OO	2nnO48-	11.88	Aps
SAaoqTum	4901	463O239	4391844	49n892n	463- 94n	1.64	Aps
SAaoqTum	49O2	146- - 1	1- 2942	1164- 1	1- 1368	11.- 6	Aps
SeleoTum	8201	2O9	229	21n	216	4.3-	Aps
SeleoTum	33O2	- 1O	2n-	- 1O	- O4	- .16	Aps
SeleoTum	38O2	246	2- 3	248	244	2.4O	Aps
STTAdo	2801	82- 2124	8O926O6	8- 8nn1-	8224881	2.O9	Aps
STver	1O301	12- -	1- 9O	11n2	1298	6.92	Aps
STver	1On01	12OO	12O8	1- 39	1261	3.8-	Aps
SdqTum	2- O2	- 3- 82	- 9n83	- 3n16	- 3On9	2.6n	Aps
SDdoDTum	8601	8n14-	884O9	88- 46	886- 1	O.9O	Aps
SDdoDTum	8801	39n326	362698	36n- - n	36- nO8	O.64	Aps
Sulfur	- 401	268888	269812	261396	269489	1.- 9	Aps
&erbTum	19n01	1O- 99688	1O- 9n49n	n816n13	1O133- 99	- .O3	Aps
&erbTum	19nO2	4221433	- 3nn2O9	- 41n3O8	- 81- 46-	1O.92	Aps
&hallTum	2O- 01	2O13	1n13	1n- 4	1n96	2.34	Aps
&hallTum	2O901	4926	4n- 4	49O1	4694	9.2-	Aps
&TD	11801	12496	1- O- 1	1- O4n	12849	2.6-	Aps
&TaoTum	4301	24O431	24O322	24O636	24O62-	O.O6	Aps
UraoTum	2- 801	9O918	9- 446	9O442	9146n	- .- -	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0lr :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0lr :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
VaoaqTum	910 2	2- O62	22- n8	2- O9n	228- n	1.68	Aps
YDerbTum	1320 1	46- 4n	498n3	432- 9	464n-	1.46	Aps
YDerbTum	1320 2	21889	224- 6	223O-	22- 41	1.83	Aps
YDerbTum	1360 1	- O26n	- O69-	- 16- O	- O891	2.28	Aps
YDerbTum	1360 2	26O69	29O6-	2- 3- -	24n94	4.6n	Aps
YDDTum	8n0 1	143n24- O	19262231	1434n9O-	14n- 43- 9	1.nO	Aps
YDDTum	8n0 2	1938O93	142OO91	12986O4	1418nO4	11.26	Aps
ZTbA	660 2	46O31	46132	46n84	464On	1.O8	Aps
ZTAdoTum	nO0 1	1O9n6	1116-	1111-	1On93	2.83	Aps
ZTAdoTum	n10 1	2984	2484	229n	2442	6.82	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII inI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4407S0	&CPIIbe Cpi:mI e p:J	us
9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdNbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdNd:mI e p:J	S. 2 FUMRo

ul II e pipI	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pI C	9 uDF DT	5 CdqP
Nbe qCdpe	2072	426244	420S- -	41sS- -	42- 00S	1R1s	dt P
CIqe nCE	12171	- a42	- 610	- 006	- 64a	- R20	dt P
IPpCqd	0a72	2- s6	2244	2246	22. 2	- Raa	dt P
BI IdNe	1- a71	- a02a.	- a04s.	- a2- - a	- aa6. 4	SRs2	dt P
BI IdNe	1- 071	6- 2a66	6- - a06	6- 101S	6- 261s	SR1a	dt P
BpIENNbe	. 71	- 0a-	- 06a	- 00a	- 064	SR S	dt P
BqPe biG	2S. 71	0S6s66S	01. s261	6sS4241	0S2- 021	2Rs6	dt P
BqPe biG	2S. 72	- 2- 24. S	- 2- . S- 4	- 2- S6. 6	- 2- 4S04	SR14	dt P
BIne qCp	s171	aasa	a66s	a. S1	a01s	2Rs0	dt P
9 I oe dpe	1Ss71	- 42	246	- S4	2. 0	16R2a	dt P
9 I oe dpe	1S671	4s4-	4606	42a.	4a. -	6Ra4	dt P
9 I oe dpe	11171	21as	2- as	2Sa.	21. 2	6R 6	dt P
9 I Ndpe	4- 71	- . 060-	4S- 0- 6	- . s. 06	4SS12s	SRsS	dt P
9 I Ndpe	4471	6s12600	6s66aSa	66. 142a	60. S2S-	1R 2	dt P
9 I Ir nC	1271	- 6621. .	- 0- a06a	- 0. S6- 1	- 02. a- 2	1R0-	dt P
9 I Ir nC	1272	4a61-	46S. s	4441s	4a- 06	1R 1	dt P
9 GNIqCp	- a71	1. 4s20as	2- 024s6s	2614a1s.	2- 1106Sa	14Ra.	dt P
9 GNIqCp	- a72	1. a0S.	2Sa46S	2S01. 2	2S20s0	- RSa	dt P
9 GIne dpe	a272	2- 6. -	2- - s.	2- 0sS	2- 621	SRs0	dt P
9 nr I Nl	a. 72	2. S4-	2s21a	2saS.	2sas.	1R40	dt P
9 nt t pI	6- 72	6- aSa	620aa	62. 2.	6- S6-	SR62	dt P
TEPt InPdpe	1a671	s4- as	s661a	s02a2	s6S0a	1R00	dt P
TEPt InPdpe	1a672	- a. 1a	- a- 4S	- 4- S0	- a1s0	2R 1	dt P
UIr dpe	16471	6- S60	642- .	6- s46	6- 010	SR 4	dt P
UIr dpe	16472	2a02a	2a4as	24266	2a14.	- RS.	dt P
HI onNqCdpe	16S71	0- . 0-	064- 6	06- 0s	0aa. 6	1Rs6	dt P
HI onNqCdpe	16S72	- a4. 4	- 4s12	- 42s0	- 4s64	1R04	dt P
h nNe dpe	16a71	1S46Sa2a	1S41- 1a-	. 604- . -	1S1s26. S	4R -	dt P
h nNe dpe	16a72	41S- aSa	410024-	4S. . 1S.	412661.	1RS6	dt P
&Codpe	11a71	02s0. a6	02a6a2-	0S1ss64	01s00s1	2RSa	dt P
&Codpe	11a72	. - a1- a	. 42aa6	. 20S- -	. - 4. Ss	SRs-	dt P
&nC	a472	1ss4s40	1s4s- - 6	1sS6- 4s	1s46a1S	2R1-	dt P
&nC	a672	- 206sS- -	- - a02- - 0	- 2- S226a	- 2ssSs0s	1R a	dt P
&nC	a072	0s0026	0. 6s06	00. s02	0ss1as	1RSs	dt P
KIEt inC	s- 71	- 11	- 02	- S.	- - 1	1SR 1	dt P
LpI o	2S671	a21aas	a44ss6	a2- - 21	a2. . 22	2R4a	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pl:J	LB1264S0	3 t pll inl:J	wl P8 l N
Ll r :Dl e t Nd:&T :J	3 - 4407S0	&CPllbe Cpi:ml e p:J	us
9 NdpCi:Dl e t Nd:&T :J	y h SM2-	TdNiqnC:M dinl:J	1
Tl ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	Tl il MdNd:ml e p:J	S. 2 FUMR0

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl C	9 uDF DT	5 CdqP
Lpl o	2S071	4- - 0. 6	44s64S	44S6s2	441S- .	1R3s	dt P
Lpl o	2Ss71	2S6S161	21Ss. 16	2S6- 2a1	2S0044-	1R 1	dt P
LqiGdpe	671	26- - . . .	26- 6- 0s	2aS46- 4	2a. 160S	2R 1	dt P
y l gCpPdpe	2472	0a6S10	044. s2	041- 1-	0404- s	1RS2	dt P
y l Cgl CpPp	aa72	4- 1114	4- 46. .	4241. 0	4- SSS-	1R24	dt P
y nNEr opCbe	. 471	aSs- a	a2s10	a1040	a1sSS	1R 2	dt P
y nNEr opCbe	. a71	46S1	4006	46s4	46s0	1R30	dt P
y nNEr opCbe	. 671	12a14	1- 2. S	12. S6	12. S4	- RS1	dt P
y nNEr opCbe	. 071	2s- 4	2a0a	2. 60	20. 2	0R1-	dt P
y nNEr opCbe	. s71	606.	6. 20	0- 1S	0SS2	- R s	dt P
mpnoEe dpe	1aS71	1a1- 4a	1a4s- 2	1a- s61	1a- - 46	1R10	dt P
mpnoEe dpe	1aS72	4a. 4a	44. 0s	446. 4	4a2S6	1R4a	dt P
mqdkpN	6S72	1a2. 2	1402s	1a122	1aS40	1R 2	dt P
uGnPt GnlbP	- 172	a46s	a426	a1S.	a- - 4	- R60	dt P
unil PPdpe	- . 72	4SS1aa	- . . a6a	4S4Sa4	4S12as	SR61	dt P
F Gnodpe	1S- 71	0- 2a6- .	02126S0	60. S1. 1	01S. 40.	- R 0	dt P
F Gnodpe	1S- 72	- 16a6sS	- 1. . 12s	- 1000S4	- 1sSs- 0	SRa-	dt P
Ddl Codpe	4a71	4041S- s	40aa06S	441264S	46- 640.	4R1s	dt P
Ddl Codpe	4a72	1422S0	1414s6	14S426	141- 0-	SR6-	dt P
DpNqCdpe	s271	1- 0	124	1s2	14s	2SR00	dt P
DpNqCdpe	0072	1- 0	1- -	11S	120	11R40	dt P
DpNqCdpe	0s72	142	11s	1S4	121	1aR34	dt P
DqNdnC	2s71	12. - 626-	1- 1- S- 41	1- S- 2s10	1- S- - 14S	SR04	dt P
DqNpl	1S071	4- a1	- . S.	- . S1	4Sa-	6R a	dt P
DqNpl	1S. 71	- as4	4aa1	- 0- 4	- . a6	1- R1a	dt P
Dnodpe	2- 72	4. 1. 2	4s. Ss	4sa- 1	4ss00	SR6s	dt P
DilnCidpe	s671	1s. - 14	1. 62. a	1. 42a1	1. - 2s6	1R36	dt P
DilnCidpe	ss71	1061216	1006as.	10. 4a. a	1000460	SR 4	dt P
DbNbl	- 471	- S1216	- S4. s0	- Sa64-	- S- . 4.	SR0.	dt P
cplr dpe	1a. 71	1Sa4a6. s	1S- . . - aS	. 02S60S	1S221. S6	4R 1	dt P
cplr dpe	1a. 72	4S064SS	4Sss1a-	- . 0sa- -	4S406. a	1R4.	dt P
cGl Ndpe	2S- 71	14Ss	14as	1aSs	14as	- R4-	dt P
cGl Ndpe	2Sa71	- 0S.	- 460	- 606	- 610	- R62	dt P
cqC	11s71	22666	16644	10160	1ss26	10R02	dt P
cqlCdpe	4071	1- a61-	1- 6220	1- 1. - S	1- 4a. S	1R0-	dt P
5 ll Cdpe	2- s71	6a24-	6a. ss	6assS	6a0S4	SR61	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII inI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4407S0	&CPIIbe Cpi:mI e p:J	us
9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdbI:mI e p:J	S. 2 FUMRo

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl C	9 u DF DT	5 CdqP
VI CI odpe	a172	44212	44SS0	440. S	44- - 6	SR.2	dt P
YiipIr dpe	10271	1s221	10462	10- 12	1066a	2R06	dt P
YiipIr dpe	10272	s214	s4as	sS0a	s24.	2R a	dt P
YiipIr dpe	10671	12. 4S	124- 1	12s6a	1204a	2R16	dt P
YiipIr dpe	10672	166- s	16Ss2	161. .	16- S0	1RsS	dt P
YiiIdpe	s. 71	14S24141	14S6s- - 4	1- 11- ssS	1- 0- a4a2	- R.2	dt P
YiiIdpe	s. 72	142sSSS	1- 22a04	1- S- 6. 0	1- a1424	4R.6	dt P
ZdCd	6672	1. 2s1a	1. 4S- 1	1. 2s64	1. - 2- 6	SR.6	dt P
ZdqdnCdpe	. S71	12sS6s	1- - 206	1- 26a2	1- 1- - 2	2R10	dt P
ZdqdnCdpe	. 171	2. a66	2. s04	2. 04.	2. 0- S	SRa2	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	12	120	1N6	140	22M06	dDl
q. Tb C. h	121:1	42	-N	0-	-N	2NM0	dDl
qpl r . cl	0-:2	-	S	2	2	1S0MM-	dDl
Bwpcmb	17-:1	-N	142	177	111	41M1	dDl
Bwpcmb	170:1	1 2	0-	1N7	1-S	47M	dDl
Br ph8&mb	:1	77	7N	7	76	M12	dDl
Bdb mTE	2S :1	021 S76	6 S7 00	60-2277	6 -N416	7M12	dDl
Bdb mTE	2S :2	727S 2	27N7SN0	7106 24	2 7S774	16M2S	dDl
BpCb c r	N1:1	76 2	7N-	70S1	70-1	2MS	dDl
Fwob mb	1SN:1	4	N	10	1S	6-M0	dDl
Fwob mb	1S6:1	7N74	720-	2 10	7742	17MM7	dDl
Fwob mb	111:1	4S1	774	2 7	747	16M52	dDl
Fw8lmb	47:1	26S	71	44-	741	20M0S	dDl
Fw8lmb	44:1	7S1S-	7S720	7164-	7S6 7	2M01	dDl
FwpeC.	12:1	22N4162	22616N0	22-4024	2266N-N	SM0N	dDl
FwpeC.	12:2	26 0-	26066	20020	201-6	1MM6	dDl
FE8Cpc r	7-:1	4S 6216	7 1264	7014744	7 S0070	4MM	dDl
FE8Cpc r	7-:2	27-4-	22N7-	2S 04	224-1	-M1	dDl
FEpCb mb	-2:2	1120	1S60	11 S	112N	-M0	dDl
FCew8T	- :2	67	20	-S	40	7 M06	dDl
FCDDr p	67:2	0N7	N6S	N1S	N1N	4M06	dDl
&hl DpCl mb	1-6:1	2-	S	N	11	114MN	dDl
&hl DpCl mb	1-6:2	7	1S	70	10	1S-MM-	dDl
Upemb	164:1	0-	60	N7	0-	11M1	dDl
Upemb	164:2	70	20	77	72	1-MS	dDl
GwoC8c mb	16S:1	110	110	1SN	114	4M2	dDl
GwoC8c mb	16S:2	S	07	100	117	4NM-	dDl
HC8b mb	16-:1	1S2N-6NN	NN- -72	-12N14	N 460N	7M1	dDl
HC8b mb	16-:2	417 22	7S070N0	4S4-7S1	70-2002	1-M02	dDl
t. omb	11-:1	0-0 1SS	0216 0	6 70S-2	02447N7	4M4	dDl
t. omb	11-:2	46-10	6 7707	20N40	N- - 12	16M4N	dDl
tpC.	-4:2	422	7-S	-60	446	24M02	dDl
tpC.	-6:2	7160	7410	0010	4060	-7M-	dDl
tpC.	-0:2	02	1-S	77	1N0	07M7	dDl
KphDTC.	N7:1	2-S	2-6	2-	2- -	1M0	dDl
Lr wo	2S6:1	N61	044	10	N41	1SM46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	022	22	N2N	N24	12M14	dDI
Lr wo	2SN:1	70N	7-0N	74N	761	4M26	dDI
LcTEcmb	6:1	26S0-N1	26S--1-	2-S4666	2-02-N0	2M2	dDI
9 wg. r l cmb	24:2	1-S	1SS	2N7	10N	-7M71	dDI
9 w. gw. r l r	--:2	N0	1S0	1NS	124	7 M4	dDI
9 C8neor . mb	4:1	1SN	110	1 2	17	77M34	dDI
9 C8neor . mb	-:1	77	77	110	61	0NM04	dDI
9 C8neor . mb	6:1	1-S	2	10-	17	7SM0	dDI
9 C8neor . mb	0:1	N7	77	-S	-6	4-MN7	dDI
9 C8neor . mb	N:1	N7	42	0-	60	77M30	dDI
u r Cohb cmb	1-S:1	77	2S	20	20	24M	dDI
u r Cohb cmb	1-S:2	7	S	47	16	1--M37	dDI
u cdkr 8	6S:2	77	77	N7	-S	-0M04	dDI
3 ECl DECpm	71:2	1SN	1SN	1-S	122	1 M6N	dDI
3 CTwl cmb	7 :2	NN0N	N-76	N 61	N0 2	2M6	dDI
y ECocmb	1S7:1	07607-S	0SS40-7	0SS0 01	01266 1	2M2	dDI
y ECocmb	1S7:2	71-2S N	2426N74	717- -	2 S4 06	14M26	dDI
l dw. ocmb	4-:1	46N 6-	4-7S74	444SN4	4--7021	2M00	dDI
l dw. ocmb	4-:2	14S624	1S1N40	17 162	120211	10M2N	dDI
l r 8 . cmb	N2:1	:14	:1S	:4S	:21	:06M1	dDI
l r 8 . cmb	00:2	S	S	7	1	107M21	dDI
l r 8 . cmb	0N:2	1S	17	1-	17	1 MN0	dDI
l c8dC.	2N:1	101400	1607 0	166241	16N702	1M67	dDI
l c8vr p	1S0:1	210	242	177	1 0	2NM06	dDI
l c8vr p	1S :1	12-	142	177	177	6M2-	dDI
l Cocmb	27:2	162 7	16406	161S	162 7	1M17	dDI
l TpC. Tcmb	N6:1	477	-10	660	-7	21M4	dDI
l TpC. Tcmb	NN:1	1160	1S-S	1--	12-N	21M10	dDI
l m8mp	74:1	24 4S2	2-S-70	2-1171	2-S7-0	SM7-	dDI
Ar pecmb	1- :1	1S7 -126	074 00	66-206	710 7	4M36	dDI
Ar pecmb	1- :2	4SS2-12	2 7674S	7N6-00-	76S1-42	16M11	dDI
AEw8cmb	2S7:1	7-S	1N7	742	2 2	72M2S	dDI
AEw8cmb	2S-:1	6SS	60-	60-	6-S	6M06	dDI
Ac	11N:1	11-S	12SN	1210	11 2	7M8-	dDI
AcTw. cmb	40:1	1 2	1 2	1SN	164	2 M7-	dDI
5 pw. cmb	27N:1	10	-S	10	2N	6 M20	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUMd

3wpwb r Tr p	9 wl l	F3I 1	F3I 2	F3I 7	F3I 9 r w.	F3I y l &	5 . cT
Vw. wocmb	-1:2	S	27	47	22	0M8S	dDl
YTTr pecmb	102:1	42	42	77	7	12M7N	dDl
YTTr pecmb	102:2	77	10	2N	26	72M02	dDl
YTTr pecmb	106:1	1277	1777	1S-N	12SN	11M2	dDl
YTTr pecmb	106:2	1S- 7	0 SN	11102	N 1	10M61	dDl
YTTpcmb	N :1	17-74- -	120N 2N2	12706- 7	12 SS1-0	4M-	dDl
YTTpcmb	N :2	127-6SS	22N S	127-6N4	11717 2	1-M6	dDl
Zc d	66:2	140	117	1 7	1-1	26M	dDl
ZqpdC. cmb	S:1	- 2	-SN	442	-14	14M62	dDl
ZqpdC. cmb	1:1	2	60	12-	4	7SMN	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l T Rdpamle pas	S 4LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14u0	147-	16 -	1-7	uM7	dDP
q. Tde C. h	121J1	10Su6	16600	102S7	16 u	1M62	dDP
qlPp. cd	0-J2	22	27	24u	27	7Mu	dDP
Bl dbe	17-J1	1 1 0	1 2u	1 0-0	1 414	1M4	dDP
Bl dbe	170J1	771u7	7707-	77S 1	77776	1N84	dDP
BplhNbe	J1	27S0	2766	22-1	27Su	2M4	dDP
BdPe bTE	2S J1	6S 4- 6	60u604	66uS0-u	6-2S0S1	-M02	dDP
BdPe bTE	2S J2	71-7664	724021-	7246u2S	721- SS	1M0u	dDP
BlCe c p	u1J1	4SS1	42S1	7 74	4S4-	7M47	dDP
Fl oe dbe	1SuJ1	167	10-	217	1u7	14M1	dDP
Fl oe dbe	1S6J1	74u4	70u4	7010	7662	4M7S	dDP
Fl oe dbe	111J1	2671	2-u	2400	2-66	7N8	dDP
Fl Ndbe	47J1	12774	12-uu	12SS	1271S	2M76	dDP
Fl Ndbe	44J1	2206 S	22- - - 0	227u10	22-6uu	SM6	dDP
Fl lr C.	12J1	27-SS-S	27411 2	2262012	2710 u-	2N80	dDP
Fl lr C.	12J2	20u1S	20-47	200-2	200S2	SM1	dDP
FENCl c p	7-J1	2-26 00	246 701	24S 0 S	246u017	2M70	dDP
FENCl c p	7-J2	16447	1-160	147	1-776	6M07	dDP
FElCe dbe	-2J2	6S-u	6Su1	- u1	6S4S	SM0	dDP
FCr l NT	- J2	4041	4671	4uS4	402-	1M6	dDP
FCDDpl	67J2	u7-7	u2u6	u4-	u766	1N8-	dDP
&hPDlCPtbe	1-6J1	10	S	u	u	1SSN82	dDP
&hPDlCPtbe	1-6J2	0	S	2S		114M-	dDP
Ulr dbe	164J1	0-	110	0-	u	20N80	dDP
Ulr dbe	164J2	10	70	77	2	70N8u	dDP
Gl oCNd dbe	16SJ1	-S	60	u7	60	2-N8S	dDP
Gl oCNd dbe	16SJ2	1S0	140	170	17S	16N81	dDP
HCNe dbe	16-J1	u- 7Su-	67S1-S	40-776	272u-0	6N86	dDP
HCNe dbe	16-J2	4S7uu07	4110-S6	41S60 7	4Su0024	1N84	dDP
t. odbe	11-J1	61u-171	6 0S6-2	6 u7 S1	601722u	6M1	dDP
t. odbe	11-J2	72- -	7-07-	-S04S	7 60u	1N87	dDP
tlC.	-4J2	27S-u	27 7	270-	276S7	2N86	dDP
tlC.	-6J2	42712u	427-11	47170	426SS6	1N8	dDP
tlC.	-0J2	1S 21	1S-6S	1Su 7	1S0 1	1M6	dDP
KlhDTC.	u7J1	246	264	264	2-u	7M2	dDP
Lpl o	2S6J1	2 2	2-7	u-0-	S4S	4M46	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s-	&l Tl Rdpamlepas	S 4LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	06uS	0 -u	0076	00 1	1Nd	dDP
Lpl o	2SuJ1	7- 26	76-6-	7-271	7- S0	1Nd6	dDP
LdEdbe	6J1	22u277	24 1u -	2-2u 6-	24744SS	-N46	dDP
9l g. pPdbe	24J2	4u	0--1	1SS27-	S 2	1N4S	dDP
9l . gl . pPp	--J2	1460	1777	14 0	1472	6N80	dDP
9 CNr op. be	4J1	1u2S4	1u2 6	1012u	10u06	7N67	dDP
9 CNr op. be	-J1	21 26	2241	21110	21u2S	7N81	dDP
9 CNr op. be	6J1	2-16-	24267	2-1 u	24u06	2M7	dDP
9 CNr op. be	0J1	14-66	17 1	14741	142	2N87	dDP
9 CNr op. be	uJ1	7-4 6	76771	74147	7-727	7M7	dDP
mpCohe dbe	1-SJ1	20	S	20	1u	u6N4S	dDP
mpCohe dbe	1-SJ2	0	S	7S	12	12uN0	dDP
mdkpN	6SJ2	1220	17S7	1760	12	-N4S	dDP
3ECPDECIbP	71J2	110	1-S	1SS	122	2SN7	dDP
3CTl PPdbe	7 J2	667u6	66-01	6 12-	60761	2N20	dDP
y ECodbe	1S7J1	6426761	6 24SS1	0S-uSSS	6uS20u0	4Nd	dDP
y ECodbe	1S7J2	71641 2	72-46	71000S4	71 uu6-	1M7	dDP
: dl . odbe	4-J1	7 uSS S	47 -0-6	447S61u	426uu21	-N0	dDP
: dl . odbe	4-J2	14S772	17u66	17 uu	17 667	SN67	dDP
: pNp. dbe	u2J1	u	2	u1	uu2	6N4-	dDP
: pNp. dbe	00J2	20	2S	77	20	24M	dDP
: pNp. dbe	0uJ2	u6	1SS	6-	u4	21N8-	dDP
: dNdC.	2uJ1	2714-7	22-uS6	227S22	226061	1Nd	dDP
: dNpl	1S0J1	117 0	11uu	11 14	11077	2N4	dDP
: dNpl	1S J1	1S S-	1S S-	1S 7S	1S 17	SM7	dDP
: Codbe	27J2	1u4 6	1u1710	1u6uS2	1u4702	1M2	dDP
: TC. Tdbe	u6J1	2 -S	7S74	7274	7S07	4N04	dDP
: TC. Tdbe	uuJ1	2710u	2417u	22011	27742	7M2	dDP
: bNbl	74J1	2-6111	2-0u7u	2-7u-2	2-- 74	SN0u	dDP
Apl r dbe	1- J1	uu667 -	1SS1u1uu	-040-u	4u6440	6M2	dDP
Apl r dbe	1- J2	7 -u074	4111S76	7 0276-	4S14S4-	2M1S	dDP
AEl NNdbe	2S7J1	0	70	1SS01	6	SN0u	dDP
AEl NNdbe	2S-J1	27240	272uS	22u0	2717-	SM6	dDP
Ac	11uJ1	14-u	1242	1S-S	12-S	16N74	dDP
AdT . dbe	40J1	661u	6200	6226	6704	7N7-	dDP
5ll . dbe	27uJ1	777-7	747u1	72 7-	77--6	2N2	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l Tl Rdpamle pas	S 4LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	-20	7-7	06S	-40	2M14	dDP
YTpIr dbe	102J1	u7	0-	-u	02	10M67	dDP
YTpIr dbe	102J2	-6	77	2u	7	70MS	dDP
YTpIr dbe	106J1	11SS	17Su	1460	12 2	14M24	dDP
YTpIr dbe	106J2	1Su01	11S	11466	11146	2M6	dDP
YTTdbe	u J1	112 24S6	122162-1	12- -1602	12S2S11S	-M47	dDP
YTTdbe	u J2	127- 14	12-02 6	120SS-7	12-4421	1M7u	dDP
Zc d	66J2	27 S	2414	2424	24S	SM01	dDP
ZddC. dbe	SJ1	14 2	140SS	1-u74	1-10-	7Mu	dDP
ZddC. dbe	1J1	7410	7442	7410	7426	SM42	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10.J26.JSS	t s&sMRe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5nA&w
cRmAAum	20 2	C2- 261	CS2S. .	7C444-	CS6. 76	1R6.	ql w
cn&AmonE	121 1	4226	4SS1	- 774	4S- 0	4R S	ql w
crwenAq	0. 2	2022	200-	201-	20- 6	1R17	ql w
BsrAum	1- . 1	- 70616	- C4S41	- C1671	- C111-	SR7-	ql w
BsrAum	1- 0 1	677C- 6	6C1202	6C4S24	6C1411	SR 0	ql w
BerEPAum	C 1	2C22	2C04	27SS	27CC	- RS7	ql w
BAumu&G	2SC 1	611S114	666- 004	6CCS1- S	6. 77SS6	6R0.	ql w
BAumu&G	2SC 2	- - 2S166	- 42- SCC	- 22S- 47	- - 212S.	- RS.	ql w
BromAne	71 1	60- .	0- 6C	04S2	016C	. R24	ql w
9 sOmAum	1S7 1	1- 7	1. S	1. S	146	4RC.	ql w
9 sOmAum	1S6 1	- CSC	- 7. C	- CC2	- C2S	1R02	ql w
9 sOmAum	111 1	1C66	171C	171.	1766	4R6S	ql w
9 sRqAum	4- 1	4C014S	4CC44.	4C1061	4C611.	SR0C	ql w
9 sRqAum	44 1	7- 74C74	7- 2- 4. 6	71- 7714	7272417	1R .	ql w
9 srbon	12 1	672- 10C	01- S6- 1	01- 71. .	0S- S6. .	2R 6	ql w
9 srbon	12 2	70611	72672	70476	7. C26	- R20	ql w
9 GRorAne	- . 1	1246C. 22	1. 0C- 11C	17- S. 2C-	1. . 2264.	17R76	ql w
9 GRorAne	- . 2	1. 10- C	1. . 2. C	16277.	1. 6627	- R64	ql w
9 GromAum	. 2 2	4- S2.	42761	41614	42. SS	1R72	ql w
9 obsR&	. C 2	42106	41C07	4- S17	42- C1	1R S	ql w
9 ol l er	6- 2	7C16.	77S60	CS2- .	7C1. 6	1R22	ql w
t EwI rowAum	1. 6 1	0- - C-	02211	0- - C4	02CCC	SRC-	ql w
t EwI rowAum	1. 6 2	- S161	- S417	- S114	- S2- 1	SR 4	ql w
UrbAum	164 1	614. 1	6S622	. C667	6S. 7S	1R40	ql w
UrbAum	164 2	2- . 27	241. 2	242S.	2- C62	1R 0	ql w
HsOoRnAum	16S 1	6- - 67	6. C71	64624	646. 7	2RS2	ql w
HsOoRnAum	16S 2	- S072	2C. - C	- S1C7	- S10-	2RS6	ql w
hoRnAum	16. 1	7621771	C762007	1SS20CC2	C. S4210	7RSC	ql w
hoRnAum	16. 2	41C2261	426- 602	41S- 71C	4176. 74	1RC1	ql w
DnOAum	11. 1	62C- 770	0S1C. 26	021S176	67412SS	0RS0	ql w
DnOAum	11. 2	C. 00C4	C7SSS.	C- 116.	C. 6- 22	2R 6	ql w
Don	. 4 2	- 2- CC04	- 24S- . 7	- 21. - . 4	- 2- 17C.	SR44	ql w
Don	. 6 2	. 7S- 6. . 4	. 747S00.	. 72100- S	. 724. S2S	SR 7	ql w
Don	. 0 2	1. SC62.	140. 77.	1. S7CS4	14C71- 7	1R2C	ql w
KrEI &on	7- 1	- 4S	- SC	- 11	- 2S	. R4-	ql w
LesO	2S6 1	- 17. 6C	- 12S42	- S7121	- 12C11	1R6C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J26JSS	t s&sMAe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	9 8p1	9 8p2	9 8p-	9 8py esn	9 8pFpt	5 nA&w
LesO	2S0 1	2621- .	2. 00- S	2. CS71	2. C64C	SR70	ql w
LesO	2S7 1	12- 144C	1210166	121616C	1221. C.	SR0S	ql w
LA&GAum	6 1	24. 604.	261- 4C0	262CC- S	2. 66024	- R02	ql w
y sgnewAum	24 2	1. 4- C64	1470S71	1. S1427	1. 1S724	1R06	ql w
y sngsnewe	. . 2	0- S011	0- 7S- 0	0- . 6- -	0- 40C4	SR. 1	ql w
y oPEbOenum	C4 1	16117	1. 77.	160- 6	16246	2R01	ql w
y oPEbOenum	C. 1	646S	676S	671S	601S	- R2.	ql w
y oPEbOenum	C6 1	CS4.	7027	C. . -	C1SC	4R. 0	ql w
y oPEbOenum	C0 1	- 0C2	4SS1	44S1	4S6.	0R61	ql w
y oPEbOenum	C7 1	1111-	C72C	1S42C	1S4. 0	6R14	ql w
NeoOEmAum	1. S 1	11C64C	110SC-	11. - 02	110- 01	1R7-	ql w
NeoOEmAum	1. S 2	- . 027	- . 206	- . 0C4	- . . CC	SR0C	ql w
NAqkeP	6S 2	270C6	2C140	2C. 10	2C1. -	1R24	ql w
8 GowI Goruw	- 1 2	4- C2	4S60	41. C	42S6	- R0C	ql w
8 o&swwAum	- C 2	47C- 2-	472C6S	47. 144	47. 7SC	SR60	ql w
F GoOAum	1S- 1	6262. 46	6771C6.	0SS- 2C7	601. C- 6	. R02	ql w
F GoOAum	1S- 2	- 2- 1C6-	- - 242S-	- 16606.	- 24SC00	2R44	ql w
pqsnOAum	4. 1	4S60C1C	4. - 6. 1S	4. . 1SC2	4- 7. 10-	6R20	ql w
pqsnOAum	4. 2	14. 17C	14C1- 4	141C. 0	14. 420	2R40	ql w
pe&enAum	72 1	211	262	2- C	2- 0	1SR7S	ql w
pe&enAum	00 2	1- S	160	140	147	12R42	ql w
pe&enAum	07 2	11-	114	1- S	11C	7RS2	ql w
pAAqon	27 1	1SC6C41C	11S4. S2-	1SCC06SC	11SS4S10	SR.	ql w
pAPer	1S0 1	24. C	2- . S	22SC	2- - C	. R6	ql w
pAPer	1SC 1	2- . C	210.	2S42	21C2	0R2.	ql w
poOAum	2- 2	. - - - 1	. 2S. 2	. 111.	. 2166	2R1-	ql w
p&ona&Aum	76 1	2S71. .	2S07S6	2S670.	2S0612	SR 2	ql w
p&ona&Aum	77 1	174- 6C0	1CS7- 0S	17. - 21C	176742C	1R70	ql w
pulPur	- 4 1	2C. - . S	2C000S	2C6S0C	2C64SS	SR42	ql w
i erbAum	1. C 1	7C424S0	C77. 24S	1S2- - - 66	C670SS4	6RCS	ql w
i erbAum	1. C 2	411. 044	4200727	- C. - 72.	411. 0CC	- RC4	ql w
i GsPAum	2S- 1	- . 60	- 6. C	- - 26	- . 10	4RCS	ql w
i GsPAum	2S. 1	72C.	7276	710S	72. S	SR7.	ql w
i An	117 1	C2S-	77- 6	C1. -	CS64	2R1C	ql w
i A&snAum	40 1	1S221-	1S1- 4S	1SSS- 1	1S11C.	1RSC	ql w
5 rsnAum	2- 7 1	. - 7CS	. 4S16	. 4- 74	. 4SC0	SR40	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	87
9 Aen&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J26JSS	t s&sMAe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5 nA&w
VsnsOAum	. 1 2	00411	06077	0. 72C	06606	1RS4	ql w
Y&erbAum	102 1	1C- C7	2SS72	1C17C	1C. . 0	2R C	ql w
Y&erbAum	102 2	CS70	C26.	C- . -	C2- .	1R40	ql w
Y&erbAum	106 1	1- 066	1- C04	1- 44C	1- 0- S	1RC-	ql w
Y&erbAum	106 2	10- - 4	1027C	1647-	10S- .	2R71	ql w
Y&&Aum	7C 1	12S- 20S-	1- - 0C1- 7	1- 0S- SC4	1- S- 7- 12	6R0C	ql w
Y&&Aum	7C 2	146S- 16	147- S6.	1- 7C626	1444- - 6	- R 0	ql w
ZAnq	66 2	0S270	6C0- S	0SS6C	0SS2C	SR4S	ql w
ZAqonAum	CS 1	- 4761	- - - 4C	- - 0SS	- - C0S	2R -	ql w
ZAqonAum	C1 1	026S	0620	0. 1C	046C	2R 2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 1-	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTl wb D8 :t&:J	y h SM67&	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCmb	20 2	. 17076	. 27a67	. S7261	. 17a- 7	1R11	dDl
qCTb nCE	121 1	- 6a.	- . 74	- a06	- 0- .	aR30	dDl
qpl r Ccl	0a 2	271-	20a7	26. a	20aa	2R14	dDl
Bwpcmb	1- a 1	- 71. 61	- 7. 0aS	4SS00-	- . S727	2R42	dDl
Bwpcmb	1- 0 1	60. 2. 6	6. a4. 0	6. 6624	6. S402	1R4S	dDl
Br pE8mb	. 1	27S1	20- .	27- 6	20. 2	1R30	dDl
Bdl b mTG	2S. 1	602704S	6742216	6. 0SS00	6740S11	1R36	dDl
Bdl b mTG	2S. 2	- 4a060-	- 146S. a	- 10a4S6	- 2a. 02a	aR27	dDl
Bpmb cCr	71 1	02S2	671S	0020	0246	6R a	dDl
9 wob cmb	1S7 1	12.	16-	160	1a-	1- R4a	dDl
9 wob cmb	1S6 1	- . 06	4- a1	- 760	4S6a	6R24	dDl
9 wob cmb	111 1	1727	17a1	1. S4	1761	2RS7	dDl
9 w8lcmb	4- 1	47- S0a	4. 4. 4.	4. 40aS	4. S. 2a	1R 7	dDl
9 w8lcmb	44 1	726SaS-	7- 6. 17.	7a61107	7- . 6. a0	1R71	dDl
9 wpenC	12 1	6. 742a4	01- 1S- 0	0- 6- - S4	01a. a- 2	2R60	dDl
9 wpenC	12 2	767- .	7aS12	7a6S7	7a72S	1RS.	dDl
9 G8hpCr	- a 1	107. 160a	21- 0. S46	2- 666- - .	2S. 0. S2S	1- R76	dDl
9 G8hpCr	- a 2	104- 47	17- 2. .	17642.	171- a.	- R46	dDl
9 Gpmb cmb	a2 2	420. 4	4- 02S	4- 7SS	4- 4- 7	1R2.	dDl
9 new8T	a. 2	4- 4. 6	4- 640	4- 17.	4- 444	SRa4	dDl
9 nDDr p	6- 2	. 11- S	. S7. .	. 1624	. 1217	SR41	dDl
&El Dpnl cmb	1a6 1	6072-	021. a	02. - -	0S. 74	- R7.	dDl
&El Dpnl cmb	1a6 2	2. 6- 6	- Sa17	2. 406	2. 700	1R77	dDl
Upecmb	164 1	a. 20a	622- S	6S6Sa	6S0S-	2R44	dDl
Upecmb	164 2	24- a6	24- 0.	2a11S	2461a	1R04	dDl
Hwon8Cmb	16S 1	64616	6a- 76	6610-	6a- . 2	1R1.	dDl
Hwon8Cmb	16S 2	2. 6. -	- Sa72	2. 06S	- SS12	1R6a	dDl
h n8b cmb	16a 1	. 610S- 6	. 71410a	1SS0- a17	. 7- 4. 1S	2R -	dDl
h n8b cmb	16a 2	4417. 44	- . . 762-	41640. 4	41. 412S	aRSa	dDl
tCocmb	11a 1	01777SS	0S62076	026- . . 4	010176S	1R42	dDl
tCocmb	11a 2	. . 4a00	. 121S2	. 46S62	. aS. 14	4R 6	dDl
tpnC	a4 2	- - 6S111	- - 166- 4	- - 4aa06	- - 4S004	SR66	dDl
tpnC	a6 2	a77. 1SSa	a. 7- . 4S0	a70aa20a	a. 1617. 6	1RSS	dDl
tpnC	a0 2	1a- S1aa	1a20016	1a14aSa	1a2412a	SRaa	dDl
KpEDTnC	7- 1	- 26	2. 4	- - 6	- 1.	6R 0	dDl
Lr wo	2S6 1	- 1- 4- 6	- 147. 0	- 16126	- 1472S	SR4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 1-	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67&	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:10.J27.Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	2a6a4a	2a6. a-	2a6. a1	2a6716	SR8S.	dDl
Lr wo	2S7 1	121S624	12- 1022	122114a	1221164	SR76	dDl
LcTGmb	6 1	26- 242-	26S4- 1a	2014472	26aS4S0	2R16	dDl
y wgCr l cmb	24 2	1aS- . SS	147a- 70	1470. - 4	14. 24S0	SR60	dDl
y wCgwCr l r	aa 2	04- 100	0a. 40.	0441. a	047. aS	1R22	dDl
y n8Eeor Cmb	. 4 1	16- 17	1a. 06	16- 00	16224	1R -	dDl
y n8Eeor Cmb	. a 1	6100	616S	60a2	6- 6-	aR S	dDl
y n8Eeor Cmb	. 6 1	77- 6	7. 61	. 00.	. 1. 2	aRa0	dDl
y n8Eeor Cmb	. 0 1	41a.	- . 26	- 006	- . a-	4R7.	dDl
y n8Eeor Cmb	. 7 1	1S121	1S0. 6	1S62.	1Sa1a	- R a	dDl
u r noEb cmb	1aS 1	11- S61	1106a.	11. 447	11602-	2R72	dDl
u r noEb cmb	1aS 2	- a404	- a. 77	- a246	- aa6.	1RS0	dDl
u cdkr 8	6S 2	2. . 72	- S176	- S- - 2	- S160	SRa7	dDl
NGhl DGhpml	- 1 2	4S42	- . - 4	4174	4Sa-	- RS.	dDl
NnTwl cmb	- . 2	47272.	470S60	4. 1S. 6	476. . 0	SR7a	dDl
F Ghocmb	1S- 1	67006SS	671- 6a6	0171. 70	6. a0047	2R7-	dDl
F Ghocmb	1S- 2	- - 64. 14	- S24710	- 1- a1. S	- 104. 04	aR46	dDl
l dwCocmb	4a 1	4a0. a67	4447624	47. 77S2	4642- - 1	4R .	dDl
l dwCocmb	4a 2	1a2606	1- 0a6a	14- 6. a	14464a	aR2a	dDl
l r 8 Ccmb	72 1	10S	- 21	2S2	2- 1	- 4R4-	dDl
l r 8 Ccmb	00 2	11-	14-	1- 0	1- 1	12RS1	dDl
l r 8 Ccmb	07 2	1S4	1Sa	1Sa	1Sa	SRaa	dDl
l c8dnC	27 1	11Sa472.	11- 204- 0	1116S- 01	1117S70.	1R2-	dDl
l c8vr p	1S0 1	2460	24aS	22SS	2- 02	6R S	dDl
l c8vr p	1S. 1	2- S.	2274	22- 4	220a	1R67	dDl
l nocmb	2- 2	a- 171	a21a2	a1. - a	a2422	1R20	dDl
l TpnCTcmb	76 1	2S4747	2S- a42	2S0. 7-	2Sa4a7	1R11	dDl
l TpnCTcmb	77 1	177SS. 2	17. . a17	1. SS042	17. - 4a1	SR61	dDl
l m8mp	- 4 1	2. 6- S7	2. . a42	- S- 27a	2. . 012	1R16	dDl
Ar pecmb	1a. 1	1SSa20- S	. 7S7S70	1S46S6a6	1S1S01a7	- R26	dDl
Ar pecmb	1a. 2	4- 44. 46	- . 27- 67	4S07244	4110176	aR12	dDl
AGw8cmb	2S- 1	- 6. 2	- 4a1	- 4S.	- a10	4R a	dDl
AGw8cmb	2Sa 1	74S-	71a-	702S	742a	- R 0	dDl
AcC	117 1	76a-	7076	. 42S	7. a-	4Ra7	dDl
AcTwCcmb	40 1	. 767S	1SS. 4S	1S1606	1SS4- 2	1Raa	dDl
5 pwCcmb	2- 7 1	a4a- a	a6620	aa0S6	aa62-	1R77	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 1-	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67&	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMt8 :u wb r :J	S. 6q F UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	00. . 2	00. 64	006a6	00701	SR24	dDI
YTTr pecmb	102 1	17aaa	1. 6S0	1. 6a0	1. 20-	- R2-	dDI
YTTr pecmb	102 2	. SS-	. 60S	. a- 1	. 4S2	- R04	dDI
YTTr pecmb	106 1	1- 404	1- 441	1- a16	1- 400	SR27	dDI
YTTr pecmb	106 2	102S6	101- 4	10- - 4	10224	SRa.	dDI
YTTpcmb	7. 1	1- 66120S	1- aS7400	14112. 01	1- 06S. S6	2R27	dDI
YTTpcmb	7. 2	1a22416	1206141	1- 0SS2.	1- 7. a2.	7R 4	dDI
ZdCd	66 2	01. 21	01. S7	01044	017a7	SR14	dDI
ZqpdnCcmb	. S 1	- - aa7	- - a. 1	- - 0. 2	- - 640	SR 7	dDI
ZqpdnCcmb	. 1 1	04S2	0- 00	06S2	0461	1R6a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
ARminium	23X2	10 4R	13R- - 3	130 22	1011- 6	2U12	cpw
Antimony	121X1	R63	0 0	013	001	0U3R	cpw
Arwenic	3 X2	23	4	4R	4O	2U13	cpw
Bsrium	1- X1	346RR	3 032	30R14	364R	2U04	cpw
Bsrium	1- 3X1	1- O0 0	142422	1- 603	1- 6310	4U2-	cpw
BeryRium	RX1	61	64	6O4	36	4U14	cpw
Biwmuth	2ORX1	32O4261	6R1 302	6332 2O	6R64100	- U16	cpw
Biwmuth	2ORX2	24- 010O	- 041O6O	- 2041- 4	- 1033R1	22U16	cpw
Bromine	01X1	1R-	40R-	4 OR	406	3U04	cpw
Msdmium	1O0X1	2R	31	2R	4-	U06	cpw
Msdmium	1O6X1	- 3 1	- R04	- 6 1	- 3R	4U 1	cpw
Msdmium	111X1	60O	641	64	6	- U20	cpw
MsRium	4- X1	R4O26	R3 - 6	R3RR-	R6 10	2U2	cpw
MsRium	44X1	1662ROO	163 O3O	131300	160 200	1U31	cpw
Msrbon	12X1	- 2 O- 60	- - 6- 013	- - - 4 4	- - 22 46	1U0R	cpw
Msrbon	12X2	41463	4O640	4O00-	4ORRR	1UO-	cpw
MhRorine	- X1	0040- 23	R1O426-	ROO64461	ROO 604	1U -	cpw
MhRorine	- X2	6OO63	6O311	6O311	6O4R6	OU61	cpw
Mhromium	2X2	R126	ROO6-	R 3	R24R	2URO	cpw
MobsRR	RX2	03 -	046R	0366	066-	1UR4	cpw
Mopper	6- X2	1R126	1043R	1063R	10361	1U33	cpw
Dywprowium	1 6X1	14- 41	141 O	141R1	14223	OU31	cpw
Dywprowium	1 6X2	6100	001	3R0	R 6	- U4	cpw
Frbium	164X1	1OR31	11614	11043	11433	- UR	cpw
Frbium	164X2	4011	4321	46R1	4341	1U 2	cpw
GsdoRhium	16OX1	11632	12R2-	1- 124	12 3-	6U26	cpw
GsdoRhium	16OX2	R40	R20	6- O	6O6O	- U O	cpw
9 oRhium	16 X1	1O2R42R0	R3R1421	R 2 106	R03O- O2	- URR6	cpw
9 oRhium	16 X2	- O4O242	4R6- O44	41- 664	4O46- 13	2- U04	cpw
Indium	11 X1	3116O R	31O3360	60O2- 1O	3OO0312	2U	cpw
Indium	11 X2	3O631	11- R R1	R643- -	R- 3O1-	2- U24	cpw
Iron	4X2	62- - -	R- 4- 1	6O2233	6O6- 40	2U -	cpw
Iron	6X2	11R1334	116- R6	11 21463	116R2R 6	1U34	cpw
Iron	3X2	20262R	23- 3- R	23 O6R	233146	1U3-	cpw
Krypton	0- X1	20O	2- R	233	26	0U31	cpw
Lesd	2O6X1	6OO0R	61001	61- 04	61110	1U 1	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Lesd	2O3X1	O-14	21	4RR0	O010	2UJO	cpw
Lesd	2O0X1	2-3-31	24-36-	2-RR2R	24O- 4	1UJ4	cpw
Lithium	6X1	2632-1O	2 611OO	2 124-R	2 01R O	-U13	cpw
Hsgnewium	24X2	2ROO634	23341O	204O3	204O -	2UJ-	cpw
Hsngsnewe	X2	1 O 20	1430-1	1 O-0O	14R 0O	1U01	cpw
HoRybdenum	R4X1	2ROO	- - 04	-1 R	-140	3U6R	cpw
HoRybdenum	R X1	1OO0	12R2	110-	1161	12UJ1	cpw
HoRybdenum	R6X1	1013	160-	1063	130R	UJO	cpw
HoRybdenum	R3X1	02	60-	R0-	0-1	10U03	cpw
HoRybdenum	R0X1	1R63	2213	2O R	2O01	6U00	cpw
Neodymium	1 OX1	22- 2	2-R22	2-421	2-2-2	-U4	cpw
Neodymium	1 OX2	3O3	3O-2	3O4R	3O 2	OUJ1	cpw
NickeP	6OX2	6-10	6O40	61R0	6100	2U1R	cpw
8howphoruw	-1X2	1OOO	042	R 0	R- -	0U3R	cpw
8otswwium	-RX2	1O6-36	1OO- 0	1O-3-1	1O-400	2UR1	cpw
Ehodium	1O-X1	323OR31	311614-	6063-40	3O04021	2U03	cpw
Ehodium	1O-X2	2-R41 6	-3ROO 3	-2163 -	-1- - 6 6	22UJR	cpw
Scsndium	4 X1	4300 13	4 22 O-	4 13 R1	46OR -3	-UJ6	cpw
Scsndium	4 X2	1O 6O0	160- - 3	14-233	1-RO34	22U3O	cpw
SeRenium	02X1	-O	4	14	-O	2U0-	cpw
SeRenium	33X2	2O	- -	2-	26	23U1	cpw
SeRenium	30X2	-0	-6	-	-6	4U2O	cpw
SiRcon	20X1	22 4411	2-1-21R	2-44R64	2-O41R0	1URR	cpw
SiRver	1O3X1	0	4R2	43	O0	0U63	cpw
SiRver	1ORX1	2	0-	R2	63	6U41	cpw
Sodium	2-X2	22410	2162	22310	222 4	2UJ4	cpw
Strontium	06X1	-00-0	4OR1R	-R016	-R0 3	2U61	cpw
Strontium	00X1	- - 06-	- 2212	- 4224	-40- 3	2U4-	cpw
SuRur	-4X1	23O414	231 O0	2314 R	231123	OU2-	cpw
Terbium	1 RX1	1O12OOR2	1OO-23-O	R3264 4	RR R3 R	2U00	cpw
Terbium	1 RX2	-O66326	40R11RR	41O3 - -	4O2101R	22U36	cpw
ThsRium	2O-X1	0R2	0 0	0 0	03O	2U21	cpw
ThsRium	2O X1	1313	132	1ROO	1301	U02	cpw
Tin	110X1	24R2	2 04	21OR	2-R	1OUJ2	cpw
Titsnium	43X1	1R 0R	1R20O	2OOO6	1R62	1U06	cpw
Crsnium	2-0X1	1O421	111O	1O043	1O3R1	-U2O	cpw

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Vsnsdium	1X2	1 R2	1 - 60	1 43	1 430	O.32	cpw
Ytterbium	132X1	- 626	- 013	4226	- 0RO	3U00	cpw
Ytterbium	132X2	10- R	1R32	1330	106-	U-4	cpw
Ytterbium	136X1	- - 1	- 326	- - 42	- 43-	6U1	cpw
Ytterbium	136X2	R23O	142O2	1- 12-	121RR	21U26	cpw
Yttrium	0RX1	1- 4 RO- 3	12R324O-	124R3RO3	12R3644R	- U3O	cpw
Yttrium	0RX2	R4- 0	1 0R632	126- 0 6	126 3O4	2 U2	cpw
Zinc	66X2	14000	14203	1- 0RO	14-	- UO	cpw
Zirconium	ROX1	664-	6R1O	3O-	606-	2UR2	cpw
Zirconium	R1X1	1 13	1 O0	14 O	14R2	2U44	cpw

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 14	tCl Tpmb Cr Tuwb r :J	N7
9 8r CTl wb D8 :t&:J	y h SM67I	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J-4Ja2	&wTwMv8 :uwb r :J	S. 7qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb cCmb	20 2	. . 671.	1SSS7S2	. 762S.	. . 461S	SR06	dDI
qCTb nCE	121 1	1S22a.	1Sa0. 2	1S420-	1S41S7	1R0S	dDI
qpl r Ccl	0a 2	- . Sa	- . - 1	- 7. a	- . 1S	SR47	dDI
Bwpcmb	1- a 1	76. 222	772. S7	. SS4Sa	774107	1R00	dDI
Bwpcmb	1- 0 1	1644712	1606. 77	16. 6114	16026- 7	1Raa	dDI
Br pE8mb	. 1	17S. 6	17S2-	107S0	10. 0a	SR74	dDI
Bdl b mTG	2S. 1	67- 1- 4.	677S710	6. 17176	6706074	SR6-	dDI
Bdl b mTG	2S. 2	- 2- 2a6.	- 2- . 742	- 24- 21-	- 2- 7a42	SR10	dDI
Bpmb cCr	71 1	6. S2	00. 4	0700	0a24	0R1.	dDI
9 wob cmb	1S7 1	1S2a	1SaS	111-	1S6-	4R24	dDI
9 wob cmb	1S6 1	aa6S	a606	aa06	a6S4	1R1-	dDI
9 wob cmb	111 1	14. 14	147a7	1a. - 4	1a2- a	- R 7	dDI
9 w8lcmb	4- 1	4. a- 22	4. 0S12	4. a27S	4. a702	SR2S	dDI
9 w8lcmb	44 1	7- - . 2S7	7- 76- a1	72. a604	7- 4S411	SRa4	dDI
9 wpenC	12 1	6044200	6. 2- 074	0Sa1027	6. S6a. 6	2R24	dDI
9 wpenC	12 2	71- 41	7- - 11	72774	72a12	1R26	dDI
9 G8mpCr	- a 1	1a1a12Sa	1720S- 14	2S64S- 1a	17S2S611	1aR27	dDI
9 G8mpCr	- a 2	1aa. S.	16S020	16a261	16S6- 2	2R 1	dDI
9 Gpmb cmb	a2 2	11- . S-	11S06a	111026	1121- 1	1R4-	dDI
9 new8T	a. 2	- 4a6a0	- 46a- 1	- 4S42-	- 442S-	SR 6	dDI
9 nDDr p	6- 2	21- 02S	2147- -	211- 6a	21- - S6	SR7-	dDI
&El Dpnl cmb	1a6 1	01aSS	022S-	0171S	017- 7	SR4.	dDI
&El Dpnl cmb	1a6 2	2. a2.	2. . . S	- S2a7	2. . 26	1R2-	dDI
Upecmb	164 1	6S262	6S4a4	6S2- 0	6S- 17	SR2S	dDI
Upecmb	164 2	24- - 2	24- a2	24aa6	24414	SRa1	dDI
Hwon8Cmb	16S 1	6400a	62. S0	6aS7a	642a6	1R7-	dDI
Hwon8Cmb	16S 2	2. . - S	2. . 40	2. 666	2. 747	SRa-	dDI
h n8b cmb	16a 1	. 671017	. 7446a-	. 7a7- 46	. 0. 4. S6	1RSS	dDI
h n8b cmb	16a 2	41. 6- 7S	414. 1- S	4- S2a0-	4216S27	1R76	dDI
tCocmb	11a 1	6. Sa60.	0S21- 4S	01- - aS7	0S2S106	1R62	dDI
tCocmb	11a 2	. 6SaS.	. aS- . 4	. 46a2.	. a2400	SR06	dDI
tpnC	a4 2	- 4S. 6S0	- - 6- SS7	- - S02- 7	- - a. . a1	1Ra-	dDI
tpnC	a6 2	6120- . 1.	6S7S0461	6S4. . aaS	6S76S- 1S	SR64	dDI
tpnC	a0 2	1a. . Sa2	1a0a260	1a674. S	1a7S. - 6	1RS2	dDI
KpEDTnC	7- 1	- S2	- 2a	- a6	- 27	7R2-	dDI
Lr wo	2S6 1	- 22. 7-	- - Sa1S	- - 2644	- 27012	1Ra4	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 14	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67I	&c8mTcnC:MwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10J-4.Ja2	&wTwMv8 :u wb r :J	S. 7qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	20S216	201116	20a. 4.	202420	1R1-	dDl
Lr wo	2S7 1	12. aa0a	12. 406S	1- Sa662	12. 7666	SR40	dDl
LcTGmb	6 1	2a1004.	26S4462	26212a.	2a711a0	2R1a	dDl
y wgCr l cmb	24 2	1a4- S7a	1a- S. 2a	1a1aS72	1a2. 6. 7	SR.2	dDl
y wCgwCr l r	aa 2	74. 072	744- . a	74S0. a	744. . 1	SRa4	dDl
y n8Eeor Cmb	. 4 1	1a74-	1646S	16. 76	164- S	- R47	dDl
y n8Eeor Cmb	. a 1	6S67	a7. -	6S- a	a. . .	1Raa	dDl
y n8Eeor Cmb	. 6 1	7a07	. aS4	. a. a	. 226	6R1S	dDl
y n8Eeor Cmb	. 0 1	4SS.	- . S1	4S- 4	- . 71	1R07	dDl
y n8Eeor Cmb	. 7 1	1S4. 6	1S162	1Sa6-	1S4S0	2RS6	dDl
u r noEb cmb	1aS 1	110S26	11a40-	110010	1160- .	SR.7	dDl
u r noEb cmb	1aS 2	- a146	- aSS2	- aS- 2	- aS6S	SR22	dDl
u cdkr 8	6S 2	117a- 6	11a266	11a4S7	1164S-	1Ra.	dDl
NGhl DGhpml	- 1 2	- . - 4	4- . 2	4S. 2	414S	aR62	dDl
NnTwl cmb	- . 2	a1- Sa0	aS4a2S	a1aSS6	a1S761	1RS.	dDl
F Ghocmb	1S- 1	671100-	6. a- 4S6	672a76S	676- 67S	1R14	dDl
F Ghocmb	1S- 2	- - S07aa	- - 111. 7	- 210. 4-	- 207. . .	1R61	dDl
l dwCocmb	4a 1	4a0a7- a	4a7a2a2	4a74- 67	4a71717	SR11	dDl
l dwCocmb	4a 2	146. a4	140S00	14- 4- a	14a722	1R42	dDl
l r 8 Ccmb	72 1	2- 12	22a1	24S1	2- 22	- R2a	dDl
l r 8 Ccmb	00 2	2S-	210	1. 0	2S6	4R.a	dDl
l r 8 Ccmb	07 2	27a	27.	- 26	- SS	0Ra4	dDl
l c&dnC	27 1	112S. . 02	11S200. 0	11202- a4	1110SS41	1R14	dDl
l c&vr p	1S0 1	62- 42	62- a.	62467	62- . S	SR11	dDl
l c&vr p	1S. 1	a. 1- 6	6S24.	a. 41-	a. a. .	SR.0	dDl
l nocmb	2- 2	60S77	672a2	602. 0	60a46	SR.2	dDl
l TpnCTcmb	76 1	2Sa1. 7	212144	2Sa1. 0	2S0a1-	1R -	dDl
l TpnCTcmb	77 1	17714a0	1. a7- . S	1. 40- 42	1. 2. S6-	2R16	dDl
l m8mp	- 4 1	- 112a0	- S. 7- 0	- 11. 72	- 11S2a	SRa	dDl
Ar pecmb	1a. 1	. 0044a1	1SS22SaS	1S1S46S0	. . 60S- 6	1R02	dDl
Ar pecmb	1a. 2	4SaS- 07	4SaS1. 6	414a10.	4S71. 17	1R4	dDl
AGw8Bmb	2S- 1	a7060	a. 7. 0	6S71S	a. 72a	1R01	dDl
AGw8Bmb	2Sa 1	141240	142. 4S	144- 1a	1427- 4	1RS7	dDl
AcC	117 1	12a14	1201a	12747	126. 2	1R.2	dDl
AcTwCcmb	40 1	. 20aS	77a6a	7020a	7. a- S	- R2S	dDl
5 pwCcmb	2- 7 1	a40. 4	a- 421	aaS- 0	a4410	1R6S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 14	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67I	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J-4Ja2	&wTwMt8 :u wb r :J	S. 7qF UMRb

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	2S0- 02	2S- 4a.	2S21- 4	2S4- 22	1R -	dDl
YTTr pecmb	102 1	1. 1. 7	1. 0. S	1. . a0	1. 647	2RS-	dDl
YTTr pecmb	102 2	. S2a	. 1a.	. S2S	. S67	SR70	dDl
YTTr pecmb	106 1	1- - 6a	1- 6. .	1- a66	1- a4-	1R24	dDl
YTTr pecmb	106 2	10a- 4	10- - .	10- 07	10410	SRa.	dDl
YTTpcmb	7. 1	1- S42S7.	1- . S2a. 0	1- aa1a67	1- 4. 70a1	- R21	dDl
YTTpcmb	7. 2	14- 062.	14a- 70.	1427a7S	144SS- S	SR7.	dDl
ZcCd	66 2	1S6- 1.	1S762S	1S7- a7	1S006a	1R10	dDl
ZcpdnCcmb	. S 1	- 4167	- 4a7a	- 41a1	- 4- S1	SR02	dDl
ZcpdnCcmb	. 1 1	0244	7107	001.	001-	6RSa	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 S:	tCl Tpmb Cr TLu wb r Ja	N7
9 8r CTL wo D8 Jt&Jal	y h SM 0	&8mTmCJMwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb oCcmb	20 2	7- 06S4	72. 6: -	741: . 1	7- 6272	SR0-	dDI
qCTb nCE	121 1	4074	46S1	47- 4	404S	2R .	dDI
qpl r Ccl	0: 2	47- 7	4611	4607	40S.	2R47	dDI
Bwpcmb	1- : 1	: 2- 0: 2	: - - 162	: 27S24	: 27- 1-	SR7.	dDI
Bwpcmb	1- 0 1	. 1270:	. 44. : :	. 1. 2- 4	. 2: 677	1R7-	dDI
Br pE8&mb	. 1	206:	276:	2022	2074	2R6-	dDI
Bdl b mTG	2S. 1	67S2. 01	6746: 0:	0S. S7S4	6. 1- 4: S	2R24	dDI
Bdl b mTG	2S. 2	- 2. 04SS	- 4- . 6: 0	- - : 7426	- - 6: 161	2R12	dDI
Bpmb oCr	71 1	74S-	7- 07	. 1- 0	76- .	4R .	dDI
9 wob cmb	1S7 1	22:	246	1. 6	222	11R S	dDI
9 wob cmb	1S6 1	41S1	4- 60	4- . 2	4270	- R0 0	dDI
9 wob cmb	111 1	1. 4S	17. 4	1. 4S	1. 2:	1R 7	dDI
9 w8lcmb	4- 1	24- 4S4	24. 41.	24: S77	24: . 0S	1R26	dDI
9 w8lcmb	44 1	426. 170	42. 61. -	4202: 44	420. - S7	SR 4	dDI
9 wpenC	12 1	- 0S04S.	- 7- - 4S.	- 722241	- 070676	1R74	dDI
9 wpenC	12 2	4: 040	4: 0- S	4: : 2.	4: 66.	SR20	dDI
9 G8hpcCr	- : 1	174: 4266	224S66S2	24S7706.	2164. 70.	1- R 6	dDI
9 G8hpcCr	- : 2	10772S	17- - . 1	1. SS. :	1741S2	- RS7	dDI
9 Gpmb cmb	: 2 2	6S- 20	: . 6. 0	: 71S1	: . - 0:	1R -	dDI
9 new8T	: . 2	0: 67S	0- . . 1	04627	04066	1R14	dDI
9 nDDr p	6- 2	126172	12- . 4:	12: 6- S	12: 2: 2	SR -	dDI
&El Dpnl cmb	1: 6 1	60. 1:	6. 04.	67707	67740	1R -	dDI
&El Dpnl cmb	1: 6 2	27727	272- 0	27410	274. 4	1RS6	dDI
Upecmb	164 1	: 0S: 0	: 7S44	: 74- 7	: 0746	1R2-	dDI
Upecmb	164 2	2- 0- :	2- 2: 0	2- S7S	2- - : 0	1R4:	dDI
Hwon8Ccmb	16S 1	6144-	6- 160	61. 4:	6217:	1R4-	dDI
Hwon8Ccmb	16S 2	2. - : 6	2. 4: 6	2. S. 2	2. - S1	SR64	dDI
h n8b cmb	16: 1	. 40047.	. 6S07- S	. . : 2: 7-	. 60. - S1	2R 4	dDI
h n8b cmb	16: 2	4170S7.	441. 42:	420200.	42. - S. 0	2R04	dDI
tCocmb	11: 1	6. 6110:	01267: .	02- - 6S2	01S0212	1R -	dDI
tCocmb	11: 2	. 66. 0S	1SS- 06.	. 66S. :	. 07. 4:	2R2S	dDI
tpnC	: 4 2	- 0. - - 41	- 72: - 4S	- 721242	- 71- - S7	SR46	dDI
tpnC	: 6 2	0S1- S6S2	67- 61622	6. 1. S6- 2	6. 22061.	1R27	dDI
tpnC	: 0 2	17S4S. 0	1001. - 1	17S: - 06	10. - 7S1	1RS6	dDI
KpEDTnC	7- 1	- 4S	- 64	- 40	- : S	- R40	dDI
Lr wo	2S6 1	- - 0474	- 4: 4: 7	- 40- . 0	- 4- 446	1R -	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wb D8 Jt&JaJ	y h SM 0	&c8mTcnCJMwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	271: S2	27- 6. 4	270S00	274S. 1	SR.	dDI
Lr wo	2S7 1	1- 20- S0	1- - : 02:	1- : 4676	1- - . 2- .	1RS:	dDI
LcTGmb	6 1	2: SS1- 0	2: 061S4	26: : 0- 2	2: 00- 24	- RS2	dDI
y wgCr l cmb	24 2	1S22: 77	. . 10S6	1SS: . 17	1SS60- 0	1R 4	dDI
y wCgwCr l r	: : 2	1. . . 6. 6	1. 4S4. -	1. 0S1: 1	1. 0S114	1R S	dDI
y n8Eeor Cmb	. 4 1	2- 4. :	24071	24: 7S	24276	2R7:	dDI
y n8Eeor Cmb	. : 1	0120	0400	0600	0420	- R0:	dDI
y n8Eeor Cmb	. 6 1	11177	11764	110S:	11: 76	- RS:	dDI
y n8Eeor Cmb	. 0 1	4- 74	4. S.	4: 67	462S	: R00	dDI
y n8Eeor Cmb	. 7 1	1147.	11702	11: 02	11644	1R0-	dDI
u r noEb cmb	1: S 1	1S. 611	111. : 0	11107-	111110	1R17	dDI
u r noEb cmb	1: S 2	- 4467	- 2. 61	- 26. 0	- - - 0:	2R76	dDI
u cdkr 8	6S 2	4746.	47: 12	47016	47: 66	SR20	dDI
NGhl DGhpml	- 1 2	- 2. 2	- - - 4	- 6. 2	- 4- .	6R .	dDI
NnTwl l cmb	- . 2	- 2- 1SS	- - 2: 02	- 2: 6: .	- 20111	1R S	dDI
F Ghocmb	1S- 1	67: . 276	0S1. S62	01: S: 62	0SS. 6- 0	2RS7	dDI
F Ghocmb	1S- 2	- 2S4S6-	- - 74- S0	- 2- : S26	- 204466	2R 4	dDI
I dwCocmb	4: 1	461S011	40102- :	46. : - 12	460441.	1R2S	dDI
I dwCocmb	4: 2	144010	1: 4S12	146. 2.	147: : -	- R20	dDI
I r 8 Ccmb	72 1	411	4S1	42S	411	2R27	dDI
I r 8 Ccmb	00 2	12-	12-	1: 0	1- 4	14R 1	dDI
I r 8 Ccmb	07 2	1- :	11.	141	1- 2	7R64	dDI
I c&dnC	27 1	1S4240- 2	1S7S06. :	1S- 741: .	1S: - 7762	2R22	dDI
I c&vr p	1S0 1	2S- 4	2S: S	2S0:	2S: -	1RS2	dDI
I c&vr p	1S. 1	1. 74	210:	100:	1. 07	1SR12	dDI
I nocmb	2- 2	26S: 16	2: 4. : 0	2: 6622	2: 0- 6:	1R1	dDI
I TpnCTcmb	76 1	2S1: 21	2S174-	2S2: 02	2S1. 0.	SR20	dDI
I TpnCTcmb	77 1	17- 0: 6-	1746: 70	1707- - .	17: 416-	1R16	dDI
I m8mp	- 4 1	- - 01. 2	- - 71- 7	- 2. . S2	- - : S00	1R 4	dDI
Ar pecmb	1: . 1	. 0S2S12	1S10S0SS	1S- 6: S7S	1SS0. 264	- R 7	dDI
Ar pecmb	1: . 2	41- . - : 7	42716. 0	41- 6060	417: . 41	1R 7	dDI
AGw8cmb	2S- 1	- 1: .	- S60	- S60	- S. 7	1R01	dDI
AGw8cmb	2S: 1	0607	04: 2	046.	0: - -	1R60	dDI
AcC	117 1	117: 6	117S:	11. 7.	1177-	SR7S	dDI
AcTwCcmb	40 1	61SS:	6- : SS	61624	62S4-	2RS.	dDI
5 pwCcmb	2- 7 1	0- 0S6	04. : :	0446S	04- 04	SR7:	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 S:	tCl Tpmb Cr TLu wb r Ja	N7
9 8r CTL wb D8 Jt&Jal	y h SM 0	&8mTcnCJMwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	: 1 2	1SSS60	. 04S:	. 0742	. 74- 7	1R4:	dDl
YTTr pecmb	102 1	1716-	17- 21	176- S	17- 02	1R2.	dDl
YTTr pecmb	102 2	7. 42	76- 1	76. 2	70: :	1R77	dDl
YTTr pecmb	106 1	12. 2-	122: 6	1- 1: 0	1200.	- R66	dDl
YTTr pecmb	106 2	10: 60	1027.	10SS6	10270	1R62	dDl
YTTpcmb	7. 1	1- 22: - 0:	1- : 22. : S	1- 6. 071:	1- 472S40	1R00	dDl
YTTpcmb	7. 2	141. 412	14604: 0	1442771	144- 2: S	1R66	dDl
ZcCd	66 2	: 00- 1	: 6. . 7	: 6S. 1	: 6. 4S	1R44	dDl
ZqpdnCcmb	. S 1	: 64. .	: 6- : 6	: 04S2	: 60: 2	1RSS	dDl
ZqpdnCcmb	. 1 1	12- 64	121- 1	12. 4S	12407	- R 4	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&or:J	1
t s&e:T:i Ane:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAnAm	20 2	6y4262	6y17S4	647y4S	6y1y-y	SU44	ql w
cn&Amonh	121 1	4EyE	yS67	4E67	4EE7	1U21	ql w
crwenAq	0y 2	- 174	- S60	- 1E4	- 147	2U24	ql w
BsrAm	1- y 1	- 12- 2y	- 1676S	- 10EEE	- 1y027	SUEy	ql w
BsrAm	1- 0 1	y6217y	yy7ESy	y66y1S	y62y- 4	SU67	ql w
BerhRAm	E 1	2- 26	2- 7S	222S	2- SE	- Uy-	ql w
BAmu&G	2SE 1	6E7770E	0S07- 1y	60yy126	6E4S00-	2U4S	ql w
BAmu&G	2SE 2	- 1E0y42	- 117- 42	- 2- y101	- 17- 67y	1U70	ql w
BromAne	71 1	7276	7276	7461	7- 44	1U21	ql w
RsOmAm	1S7 1	277	- 42	2- -	277	17U74	ql w
RsOmAm	1S6 1	42E2	4SS1	4S- 4	41SE	- U7E	ql w
RsOmAm	111 1	- SS0	27y0	- 12S	2EEy	4U4S	ql w
RsRqAm	4- 1	242662	2- Ey21	2- 6SES	2- E424	1U0	ql w
RsRqAm	44 1	41E2EyS	4S00622	4S6E24y	411- 202	1U67	ql w
Rsrbon	12 1	00- y6- 4	7S67y07	711SE10	0E0101S	2Uy7	ql w
Rsrbon	12 2	E6006	E0471	E7- 70	E0y47	SU7-	ql w
RGRorAne	- y 1	1E6417ES	224y- 20E	2- E71717	22S2y662	EUEE	ql w
RGRorAne	- y 2	10y614	17S- - 0	171- S7	10ES76	1U0S	ql w
RGromAm	y2 2	422y2	42262	42S12	4210y	SU4	ql w
RobsR&	yE 2	- 4yyy	- 4y4y	- - 4y6	- 4176	1U7y	ql w
RoI I er	6- 2	700E-	70EE7	77611	771- 4	SU47	ql w
t hwI rowAm	1y6 1	yEE1E	61007	yEySE	6S4S2	2USS	ql w
t hwI rowAm	1y6 2	2y772	2y474	2y244	2yy- 0	1U26	ql w
. rbAm	164 1	4716-	4002S	4017y	4067E	1US-	ql w
. rbAm	164 2	1701-	1ESy0	1E2S0	17EE-	1U-	ql w
HsOoRAm	16S 1	y- 6S7	y4y7S	y- 0E-	y- EE-	SUE6	ql w
HsOoRAm	16S 2	2yy- 7	26122	2y4E4	2y017	1U6	ql w
9 oRmAm	16y 1	1SS7646E	1S111612	EESy0ES	1SS- 4624	1U12	ql w
9 oRmAm	16y 2	4101ESy	4S02277	412Syy4	4121y72	1U21	ql w
DnOAm	11y 1	02EE14y	0222210	0SE17S1	02S4- 77	1U4y	ql w
DnOAm	11y 2	E406y2	ESy70-	E42170	E- 1ES4	2U44	ql w
Don	y4 2	26- S- 77	2602702	2y446EE	261yE76	2UyS	ql w
Don	y6 2	47E- 227S	40620- 6y	466- 2E6E	400- S701	2U42	ql w
Don	y0 2	114S6E0	114- ySE	111760E	11- 42Ey	1U2S	ql w
KrhI &on	7- 1	- y4	- - 2	276	- 24	1SU6y	ql w
LesO	2S6 1	- E- 226	- EE- SS	- 7y70S	- E20EE	1U01	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- 24- y0	- 2- 7E2	- 21E- 4	- 2- - E4	SU4S	ql w
LesO	2S7 1	1y16ES4	1y46761	1y17002	1y20y1-	1U1S	ql w
LA&GAum	6 1	2677726	26- 664E	26Sy7S0	264- 061	1UyE	ql w
5 sgnewAum	24 2	0Sy724	014- S7	012- 21	01S710	SU62	ql w
5 sngsnewe	yy 2	4E212E	47y6E7	47246S	476062	1US1	ql w
5 oPbOenum	E4 1	10y4y	100S-	10662	106- 0	SU40	ql w
5 oPbOenum	Ey 1	607y	6- E-	606S	6646	- U S	ql w
5 oPbOenum	E6 1	E0Ey	E- 27	E712	E64y	2U7y	ql w
5 oPbOenum	E0 1	4- 10	4- - 4	4Sy1	42- 4	- U06	ql w
5 oPbOenum	E7 1	11SE6	1S7S4	1S446	1S072	- US2	ql w
NeoOhmAum	1yS 1	1S10y6	1S- 0yE	1S2702	1S20E6	SUE7	ql w
NeoOhmAum	1yS 2	- 1y00	- 1601	- Sy- 1	- 126S	2US2	ql w
NAqkeP	6S 2	217E0	221S4	2177S	21E6S	SUy0	ql w
8 GowI Goruw	- 1 2	0- 6E	0S1S	6E7y	0121	- US1	ql w
8 o&swwAum	- E 2	4E4SSS	yS40S7	4E2ES0	4E02Sy	1U 1	ql w
CGoOAum	1S- 1	02- 4676	0- 2- SS-	0S642- 1	02S0- S0	1U7-	ql w
CGoOAum	1S- 2	- 2- 7SS2	- S70- 02	- 2- S- - y	- 17y2- 6	2U66	ql w
pqsnOAum	4y 1	40- - - 17	46EE176	44Ey7y1	464207y	2U00	ql w
pqsnOAum	4y 2	14410y	1- 60- E	141667	14S761	2U6E	ql w
pe&enAum	72 1	1y6	172	222	170	10U7-	ql w
pe&enAum	00 2	1S0	1S0	12-	112	7Uy0	ql w
pe&enAum	07 2	E6	7E	7E	E1	4U42	ql w
pAAqon	27 1	E02S17E	E0- 47- E	E7- - 04S	E062E2-	SU6-	ql w
pAPer	1S0 1	- 2SS	- 7S1	- 0E2	- yE7	EUy0	ql w
pAPer	1SE 1	- 610	- 7E2	- - 06	- 627	0U1-	ql w
poOAum	2- 2	614Sy	62S0-	6S66S	61- 7S	1U1y	ql w
p&ona&Aum	76 1	104277	16E- 61	10yy67	10- S02	1U7E	ql w
p&ona&Aum	77 1	161- 2- 0	1y0Sy- 0	16Sy716	1yE6y- S	1U4-	ql w
pulPur	- 4 1	2E7y40	2E02- y	2E- 6S6	2E6462	SU76	ql w
i erbAum	1yE 1	1S2yE167	1S2y6Ey6	E0467y4	1SS706yE	2UE-	ql w
i erbAum	1yE 2	411EE2-	- E27y70	4S71404	4S4- - 27	2UyS	ql w
i GsPAum	2S- 1	2142	2- 74	2- yE	22Ey	yU0E	ql w
i GsPAum	2Sy 1	yy67	y4S1	y- S1	y424	2U47	ql w
i An	117 1	1- 64E	12EE7	1- - 24	1- - 2-	2U44	ql w
i A&snAum	40 1	E2ES1	E62E7	E4- - y	E4y11	1U7S	ql w
MrsnAum	2- 7 1	626Sy	6- 7Ey	64471	6- 66S	1Uy1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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RFen&psml Re:D :J	5 9 SFy7	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	6y44y	64441	6- 47-	644y0	1Uy2	ql w
Y&erbAum	102 1	1yS- 4	1412y	1- 6EE	14276	4U00	ql w
Y&erbAum	102 2	66S2	0S7S	66- S	600S	- UE6	ql w
Y&erbAum	106 1	1S2E6	1S22E	1Sy- S	1S- y2	1Uy2	ql w
Y&erbAum	106 2	1y20S	1y- 71	1y0- 0	1y46-	1Uy7	ql w
Y&&Aum	7E 1	1- 722- 7y	1- 720y16	1- S1y116	1- yyySS6	- U4y	ql w
Y&&Aum	7E 2	1- 27S- 1	12y76EE	1- S- 770	12E6702	2U01	ql w
ZAnq	66 2	02E- S	040yE	0- 46E	0- 01E	1U27	ql w
ZAqonAum	ES 1	- 7y12	- 711E	- E171	- 76S4	1UJE	ql w
ZAqonAum	E1 1	70S-	77y-	7y27	76Ey	1U70	ql w

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RFen&psmI Re:D :J	5 9 SFyh	t AR&on:Fsq&or:J	1
t s&e:T:i Ane:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	0hS206	07y- 1y	0h- 646	07h046	SUy-	ql w
cn&AmonE	121 1	41y1	42h2	40- 4	4- h2	6Uh-	ql w
crwenAq	0y 2	- h- 6	- hS1	4S4S	- hyh	1U7-	ql w
BsrAm	1- y 1	- h- - 42	- h1100	- hS4h-	- h1601	SU7	ql w
BsrAm	1- 0 1	676071	0SS21y	6hhS20	6hy- 41	1US0	ql w
BerEFAm	h 1	2744	27hy	2771	270-	SUh2	ql w
BAmu&G	2Sh 1	6h7S02h	02626hh	01h- 76-	014y064	2US6	ql w
BAmu&G	2Sh 2	- 21y144	- - 1077S	- - y66y2	- 2h6yyh	2U22	ql w
BromAne	71 1	7S1h	72h4	h20S	7y27	0U01	ql w
RsOmAm	1S7 1	277	- 21	201	2h-	7U6h	ql w
RsOmAm	1S6 1	44- 4	4- 60	4S10	420-	yU24	ql w
RsOmAm	111 1	- h17	- 0y4	- 7SS	- 724	2U2S	ql w
RsRqAm	4- 1	- 1610h	- 17yy0	- 162- S	- 16h77	SU4-	ql w
RsRqAm	44 1	y- 64- 01	y- 046h4	y2h6S46	y- 4yS- 0	SU7S	ql w
Rsrbon	12 1	47- 7S4h	4hh177y	yS742y7	4h01- h0	2UyS	ql w
Rsrbon	12 2	6S6h2	61- 70	6121h	611SS	SUyh	ql w
RGFrAne	- y 1	170h0S60	216hS22h	2- - 7477h	212hS027	1SUhS	ql w
RGFrAne	- y 2	10- SSh	10041S	171740	100422	2U4h	ql w
RGromAm	y2 2	y2- yh	yShyS	y1yy2	y1621	1U0	ql w
RobsR&	yh 2	46- 6y	402- 7	4y04-	4644h	1U62	ql w
RoI I er	6- 2	h1- 72	h1- 6y	h1S4S	h1262	SU21	ql w
t EwI rowAm	1y6 1	0641h	0602h	00hhy	00S47	1US7	ql w
t EwI rowAm	1y6 2	- 1771	- 1771	- 1S6-	- 16S7	1UyS	ql w
. rbAm	164 1	y740S	yhh1S	yhhy2	yh444	1U42	ql w
. rbAm	164 2	2- y17	2- h2y	2- 611	2- 67y	SUhS	ql w
HsOoFAm	16S 1	6y7- h	60hS0	6727-	60- 4-	1Uhy	ql w
HsOoFAm	16S 2	- 1260	- 1y- 0	- 1- 00	- 1- h4	SU4-	ql w
9 oFmAm	16y 1	1S2y4hh-	h7h4711	hhSh47S	1SS1h061	2US-	ql w
9 oFmAm	16y 2	4S6S0S6	41h7y2-	42y67S1	4102S1S	2U41	ql w
DrOAm	11y 1	010- 1y-	02Sh7h0	0200126	022SSyh	SU0-	ql w
DrOAm	11y 2	h61S26	h42677	hy211S	hy1h41	SUh6	ql w
Don	y4 2	- S2ShhS	2h- 101y	2hyy2- S	2h6h- 12	1Uy6	ql w
Don	y6 2	y- 4hS7h6	y- 41S- SS	y2- 0y6- h	y- Sh2207	1U10	ql w
Don	y0 2	1- 6h0hy	1207S76	12yyS- 7	1- SSh0-	4U60	ql w
KrEI &on	7- 1	- - y	- - y	- 16	- 2h	- U2h	ql w
LesO	2S6 1	402147	47hS1y	47yh17	472- 6S	1U76	ql w

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Inst Id :P8

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RAen&psml Re:D :J	5 9 SFyh	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- hhh- 0	- h- 042	- hh7y6	- h074y	SU7h	ql w
LesO	2S7 1	170- y4S	17h016-	1770076	177616-	SU6-	ql w
LA&GAum	6 1	2640646	264- 41S	262y60-	26- 7hSh	SU44	ql w
5 sgnewAum	24 2	70741-	70- hhS	76h- yS	70- h17	SUy2	ql w
5 sngsnewe	yy 2	0667S2	04602y	042467	0y1hh7	1U0-	ql w
5 oPEbOenum	h4 1	14616	16S06	16117	1y6S4	yU47	ql w
5 oPEbOenum	hy 1	6S26	y04-	62S2	yhhS	- U76	ql w
5 oPEbOenum	h6 1	7707	7027	7hy-	77y-	1U2h	ql w
5 oPEbOenum	h0 1	- - 60	4160	- 7- 4	- 0hS	1SU61	ql w
5 oPEbOenum	h7 1	h4y4	1SSS4	h74y	h067	2UhS	ql w
NeoOEmAum	1yS 1	1- - - 16	1- Sh- h	1- S1- 2	1- 146-	1U26	ql w
NeoOEmAum	1yS 2	- 70y6	- h2S0	- h477	- h1y1	SUh4	ql w
NAqkeP	6S 2	20074	201hh	20S7h	20- y7	1U-6	ql w
8 GowI Goruw	- 1 2	4h4-	y2- 4	y1Sh	yShy	2U70	ql w
8 o&swwAum	- h 2	42S011	4104- 2	41h7y7	41h- - -	SU41	ql w
CGoOAum	1S- 1	017y660	02- S116	0S61174	01y7h7h	1U22	ql w
CGoOAum	1S- 2	- 201y7h	- 2y- ySh	- 2y2- S1	- 2yh1- -	SU-	ql w
pqsnOAum	4y 1	47S66S7	46- 0hy-	46- 467-	46h- S71	2U1S	ql w
pqsnOAum	4y 2	14447y	144y76	146hS0	14y- 26	SUh4	ql w
pe&enAum	72 1	2SS	106	2S1	1h2	0U2	ql w
pe&enAum	00 2	140	14S	16-	1yS	7US1	ql w
pe&enAum	07 2	11h	12y	11S	117	6U4S	ql w
pAAqon	27 1	1246S- 2S	126Sy1h0	12y2- - 11	12y2h6Sh	SUy7	ql w
pAPer	1S0 1	yhy1	6- - y	y767	6Sy1	4U11	ql w
pAPer	1Sh 1	yy4-	y- - y	yh67	y61y	yU0y	ql w
poOAum	2- 2	1124S7	112610	111hh0	112- 41	SU27	ql w
p&on&Aum	76 1	1h- 114	1h- 2S1	1h0177	1h4yS1	1U2S	ql w
p&on&Aum	77 1	106h2h2	1064S4y	107Shy4	10014- S	SU4h	ql w
pu&Pur	- 4 1	272y04	2722y7	274h6S	27- 264	SUy2	ql w
i erbAum	1yh 1	1Syyhyy1	1S4y2y6h	1S217h- -	1S41S- y1	1U60	ql w
i erbAum	1yh 2	4S04yh4	4ShyS14	41066hy	411y4- 4	1U-1	ql w
i GsPAum	2S- 1	2642	2742	2642	20Sh	4U26	ql w
i GsPAum	2Sy 1	6- 6S	67h4	02h4	674h	6U74	ql w
i An	117 1	11SSy	112h0	11S01	11124	1U-7	ql w
i A&snAum	40 1	0116S	01- 6h	011h4	01241	SU16	ql w
MrsnAum	2- 7 1	yh- y6	61424	yh04h	6S100	1U7-	ql w

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RFen&psml Re:D :J	5 9 SFyh	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	041S4	0- 410	0- S6h	0- y- S	SU02	ql w
Y&erbAum	102 1	10412	104S4	1060h	104h7	SUhS	ql w
Y&erbAum	102 2	720y	7y40	7771	7y67	- Uy4	ql w
Y&erbAum	106 1	12S7h	1- - 1y	1- S- 2	12712	yUS1	ql w
Y&erbAum	106 2	1667-	1607-	10174	1677-	1Uy0	ql w
Y&&Aum	7h 1	1- h1y- 26	1- 62S17y	1- yy0S07	1- 6h0y- S	1U4S	ql w
Y&&Aum	7h 2	14yS2h4	1- - 7yy4	14112h2	14SSS40	4USy	ql w
ZAnq	66 2	6h114	60h4y	6h167	67042	1USS	ql w
ZAqonAum	hS 1	- - 67-	- - S71	- - y24	- - 4- S	SUh-	ql w
ZAqonAum	h1 1	0144	0S20	0y- 6	02- y	- U67	ql w

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	aSaS- 1	aS2- a4	4hh- aS	aS224a	SM40	dDl
qCTb nCE	121 1	647a	67a2	6a20	6621	- N8-	dDl
qpl r Ccl	0a 2	- 160	- 14h	- 2- S	- 172	1M4	dDl
Bwpcmb	1- a 1	- aS16h	- 4h4- S	- a021-	- a220S	1M42	dDl
Bwpcmb	1- 0 1	61- h06	6- S44h	626h01	62- 0hh	1Mh	dDl
Br pE8mb	h 1	40S1	4a76	4674	46a0	1M-	dDl
Bdl b mTG	2Sh 1	01aS1S-	046072S	66h0110	01SaS1-	aM4a	dDl
Bdl b mTG	2Sh 2	- - 46274	- - 1- - 76	- 22h6- 2	- 2h64- 4	1M72	dDl
Bpmb cCr	71 1	026S	02- a	0a61	0- a2	2M46	dDl
5 wob cmb	1S7 1	22h	27-	20h	264	11M42	dDl
5 wob cmb	1S6 1	4S10	46a1	- hS1	41hS	hM04	dDl
5 wob cmb	111 1	2610	2a42	2aS-	2aa4	2M46	dDl
5 w8lcmb	4- 1	177274	176767	1hS2- 0	17746-	SM1S	dDl
5 w8lcmb	44 1	- 10a066	- 22a617	- 166- - 2	- 17h2- 7	1N8S	dDl
5 wpenC	12 1	4hh7221	a114- 0h	a- Sa127	a1- h24-	- N82	dDl
5 wpenC	12 2	6- 064	61a6-	6212-	6247-	1M7-	dDl
5 G8hpCr	- a 1	1hh11S- 0	2- 24740a	2a1h- 7S1	220744- 7	11M0-	dDl
5 G8hpCr	- a 2	17a140	1766a1	1h101a	1707- 7	1M7-	dDl
5 Gpmb cmb	a2 2	27S17	204SS	26017	20- 0h	2M0	dDl
5 new8T	ah 2	2hSa-	27a02	276hh	2700a	SM70	dDl
5 nDDr p	6- 2	722S-	71h17	7S161	71420	1M6	dDl
&El Dpnl cmb	1a6 1	haah2	ha102	hhSa7	h66S0	2M21	dDl
&El Dpnl cmb	1a6 2	- hS0S	- 7a02	- 71a7	- 76SS	1M17	dDl
Fpecmb	164 1	67206	60640	6hS21	67- 1a	1N81	dDl
Fpecmb	164 2	26a0-	266h4	2ah- a	264S1	1M44	dDl
Hwon8Cmb	16S 1	0hSa1	71122	71aSS	7Saa7	1M64	dDl
Hwon8Cmb	16S 2	- 7SS0	- 6a74	- 6- 2-	- 6h01	2M4a	dDl
y n8b cmb	16a 1	1SS7a4h-	1S62- 7ha	h26h624	hhh- SS4	6M72	dDl
y n8b cmb	16a 2	4- - 1472	421477h	42Sh12a	42a17- 2	1M62	dDl
tCocmb	11a 1	02212- 7	0661a0a	67a061h	0246711	aM46	dDl
tCocmb	11a 2	ha0a20	haah- 4	h4- - 4S	ha2260	SM72	dDl
tpnC	a4 2	2S- 12h2	2S6Sh14	2S46420	2S46211	SM02	dDl
tpnC	a6 2	- 6472270	- 6h2247-	- 60S760S	- 60S447S	SM8S	dDl
tpnC	a0 2	7ah111	76aa1a	76a7S1	76- 406	SM44	dDl
KpEDTnC	7- 1	- - 0	- - a	- 24	- - 2	2M21	dDl
Lr wo	2S6 1	ah6440	ah76S0	6S4aSh	ahh7aa	SM0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :uwb r :J	1S2q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	4h21- -	4hhS- 1	aSSS24	4h0S6-	SM16	dDl
Lr wo	2S7 1	2- ah600	2- 46- S4	2- 62007	2- a62a-	SM10	dDl
LdTGmb	6 1	2a71226	2022S07	24- - 0S7	2a0hSS4	aM4h	dDl
9 wgCr l mb	24 2	4- h1- a	4- - h7S	4- h727	4- 0640	SM0-	dDl
9 wCgwCr l r	aa 2	6716ah	67- 06-	6711aa	6721h2	SM2S	dDl
9 n8Eeor Cmb	h4 1	- aa2h	- 6S7h	- 6h66	- 61ha	2M8S	dDl
9 n8Eeor Cmb	ha 1	h10S	76ha	70S-	77a6	- M80	dDl
9 n8Eeor Cmb	h6 1	1427-	14h10	14- - -	14a11	2M4-	dDl
9 n8Eeor Cmb	h0 1	4017	4h- 4	4067	47S0	2M6	dDl
9 n8Eeor Cmb	h7 1	14S- 2	14241	1- 4hS	1- h21	2M07	dDl
u r noEb cmb	1aS 1	167a6S	166h14	167a20	167SSS	SM46	dDl
u r noEb cmb	1aS 2	4h467	aS4h2	4hS6-	4h604	1M47	dDl
u cdkr 8	6S 2	1- 1Sh	1- SS6	1- 1S-	1- S0-	SM44	dDl
NGhl DGhpml	- 1 2	4206	4Sah	44ah	426a	4M0S	dDl
NnTwl l mb	- h 2	441614	44S0aa	4- a27a	4- h217	SM07	dDl
. Ghocmb	1S- 1	676S12a	0aS022S	64h61ah	6ha4aS1	0M6	dDl
. Ghocmb	1S- 2	- 247626	- 2SS4h-	- 202760	- 24S662	1M14	dDl
l dwCocmb	4a 1	4620202	aSS60hh	4- h12h-	460a121	6M64	dDl
l dwCocmb	4a 2	14a17S	14- 7Sa	14S1aS	14- S4a	1M72	dDl
l r 8 Cmb	72 1	2- a	1h2	2Sa	211	1SM6	dDl
l r 8 Cmb	00 2	1a0	21S	1a0	104	10M6a	dDl
l r 8 Cmb	07 2	1- 6	12h	1- a	1- -	2M74	dDl
l 8dnC	27 1	0h6ahh7	7S21S2S	0h42a- S	0h06a16	SM41	dDl
l 8vr p	1S0 1	1- 1S0	1- 2- 2	1- - 4S	1- 226	SM77	dDl
l 8vr p	1Sh 1	1240-	1- a24	12471	12726	4M01	dDl
l nocmb	2- 2	- ha77	- 766h	- hSa-	- h1S-	1M17	dDl
l TpnCTcmb	76 1	142a4h	1427Sh	14ah0a	14- 007	1M-	dDl
l TpnCTcmb	77 1	12- 6106	124S40a	122aa10	12- 4Sa6	SM62	dDl
l m8mp	- 4 1	27126a	2720a-	27S111	271- 06	SM40	dDl
Ar pecmb	1ah 1	hh- a0- h	11S414a0	h42h4hh	1S1- aa6a	7M-	dDl
Ar pecmb	1ah 2	41- 060h	4Sa12a4	4S- h1h2	4S06S42	1M2	dDl
AGw8mb	2S- 1	20aS	2aSS	2660	26- h	4M72	dDl
AGw8mb	2Sa 1	64- a	6S20	627a	624h	- M1	dDl
AdC	117 1	2SS04	1h- a6	2S1hh	1h706	2M2h	dDl
AdTwCmb	40 1	2- 22h2	2- 2- 00	2- S04-	2- 17S4	SM4S	dDl
RpwCmb	2- 7 1	1S00a0	1S- 411	1S4S00	1SaS71	2M-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6S	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a1 2	aSS- 1	4h760	4hh4S	4hh46	SM16	dDI
YTTr pecmb	102 1	170h0	1h- 47	17221	1707h	- N8S	dDI
YTTr pecmb	102 2	hSh2	7671	7h2S	77h7	2M2	dDI
YTTr pecmb	106 1	141- -	12h72	1- 0a0	1- 624	4M1	dDI
YTTr pecmb	106 2	10127	166h4	160Sa	16742	1M40	dDI
YTTpcmb	7h 1	14S4- 21h	14h16111	12h- 100h	1- h6- 0S-	0M12	dDI
YTTpcmb	7h 2	1- a4ahS	14S461-	1- - 2a77	1- 6- h- S	2M01	dDI
ZdCd	66 2	72- S4	726- 6	7Sa24	71721	1Mh	dDI
ZqpdnCcmb	hS 1	76721	7- 47-	7- 1aa	74476	2M4S	dDI
ZqpdnCcmb	h1 1	17677	177aa	17046	1706-	SM4a	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iClJa	wl P8 l N
Ll r JDl e t Nj.J&TJaJ	3 - 447 S:	& FlIbe . piJml e pJa	u7
9 Nj. iJDl e t NJ.J&TJaJ	y h SM61	TdNiqC. JM OlClJa	1
Tl ipJAJ.cqe pJdOobdqpnJa	2S2- S0 12J10asSaS4	Tl il MdNJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	7- 01- -	7- 2: s7	72: 22-	7- - 1Ss	SR47	Ol P
d. iqe C. E	121 1	2s0s7	24s47	2s: 60	2s424	- RS1	Ol P
dlPp. qO	0s 2	124s0	1244s	12s67	124: S	SR34	Ol P
Bl dpe	1- s 1	042677	026402	026- : 6	0- 17s2	1R27	Ol P
Bl dpe	1- 0 1	1- 1- : 77	1- SS- 46	1- Sss61	1- S66- 2	SR3-	Ol P
BplENNpe	: 1	6S1-	6221	61- 2	6122	1R0S	Ol P
BqPe biG	2S: 1	6772126	02S0: : 4	6: 24- S4	0SS47S7	2R3-	Ol P
BqPe biG	2S: 2	- 264- 7-	- 26- s- 6	- 214ss-	- 2404: 1	SR77	Ol P
BlCe q p	71 1	0ss2	7S11	07: 4	071:	- RSs	Ol P
9 l ne dpe	1S7 1	- 42	- 77	- 42	- s0	0R41	Ol P
9 l ne dpe	1S6 1	4- S:	4ss1	4s17	44s:	2R 4	Ol P
9 l ne dpe	111 1	- 060	- 07S	- : 06	- 741	- RS4	Ol P
9 l NOdpe	4- 1	- 7s17s	- : 2S2:	- 7: 241	- 7771:	SR7:	Ol P
9 l NOdpe	44 1	6s7S76-	66ss167	6s700s:	66S0: - S	SR62	Ol P
9 l lr C.	12 1	- 667217	- 7S- 4: :	- 7- 41S:	- 0676S:	2R 4	Ol P
9 l lr C.	12 2	46- S0	4s: 64	40174	4647s	1R s	Ol P
9 GNOlq p	- s 1	1: - 4624S	22666: 64	24Sss26s	22S2272-	1SR:	Ol P
9 GNOlq p	- s 2	107S: 4	1722s6	174201	171s4S	1R04	Ol P
9 GlCe dpe	s2 2	610s:	61100	61S1-	61- 16	SR64	Ol P
9 Cr l NN	s: 2	4- 7- 0	4- 127	44s: 6	4- 7s4	1R60	Ol P
9 Ct pl	6- 2	1: - S: -	1: - 0: s	1: - - s6	1: - 41s	SR47	Ol P
TEPt lCPdpe	1s6 1	1- - 12s	1- 1267	1- 2: S:	1- 24- 4	SR00	Ol P
TEPt lCPdpe	1s6 2	s4772	s- s: 4	s40- s	s44S4	1R S	Ol P
Ulr dpe	164 1	: - 0: 0	: s670	: - s- 7	: 4- 41	1R24	Ol P
Ulr dpe	164 2	- 0s: 0	- 0771	- 016s	- 0s47	SR 6	Ol P
Hl nONqdpe	16S 1	111S07	11S17S	111000	111S12	SR02	Ol P
Hl nONqdpe	16S 2	s12ss	s11s1	s1760	s1424	SR0s	Ol P
h ONe dpe	16s 1	: 41274-	1SS17s67	1S1- 01- -	: 7s6171	- R 4	Ol P
h ONe dpe	16s 2	4- 1S424	42s7Ss0	4- S- S: S	42: Ss24	SR66	Ol P
& ndpe	11s 1	60- 6S6s	017: s06	0270- 22	0S0S: 77	4R16	Ol P
& ndpe	11s 2	: s4- 44	: - 7s: :	: 4: 1: 2	: 40- 0:	SR7s	Ol P
&C.	s4 2	- 4s201s	- 4S27s1	- 4s: Ss4	- 4- 72S0	SR S	Ol P
&C.	s6 2	621SS7- s	6272: s72	610617: 0	622- S001	SR77	Ol P
&C.	s0 2	1621000	162S6S7	161: s41	162S642	SRS0	Ol P
KlEt iC.	7- 1	- : s	- 60	- 04	- 0:	- R71	Ol P
Lpl n	2S6 1	1: s4747	1: - S070	1: 06- 4S	1: s- : : 2	1R10	Ol P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iClJa	wl P8 l N
Ll r JDl e t Nb.J&TJaJ	3 - 447 S:	& Fllbe . piJml e pJa	u7
9 Nb. iJDl e t NbJ&TJaJ	y h SM61	Tdbiq C. JM ClClJa	1
Tl ipJAJcqe pJdl Qobdqpn Ja	2S2- S0 12J10asSaS4	Tl il MdbJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
Lpl n	2S0 1	14s4640	146- 444	14s600:	14s72: S	SR 1	Cl P
Lpl n	2S7 1	046- 270	0s06604	0- 7: : 74	0406647	1R26	Cl P
LqGdpe	6 1	2411- 17	26- 0: - 2	26- : 174	2s62711	sR12	Cl P
y l g. pPdpe	24 2	7: 17- 1	70: 4: 4	776- 7:	77s: Ss	SR0S	Cl P
y l . gl . pPp	ss 2	12- SS2S	122S02s	12- S422	1220Ss6	SR4s	Cl P
y CNEr np. be	: 4 1	4: 471	4: 7: 7	47ss-	4: - 1S	1R4S	Cl P
y CNEr np. be	: s 1	26- 26	26: 6S	26s: -	26626	1R2S	Cl P
y CNEr np. be	: 6 1	- 4- S2	- sS2:	- s- 2S	- 4774	1R3S	Cl P
y CNEr np. be	: 0 1	16420	16420	1044s	16066	- Rs1	Cl P
y CNEr np. be	: 7 1	4262s	42: : -	4- 217	42: 4s	SR0S	Cl P
mpOnEe dpe	1sS 1	220Ss2	2- S110	2- S1- 2	22: 1S1	SR00	Cl P
mpOnEe dpe	1sS 2	6: S1S	67102	67ss1	67s07	SR61	Cl P
mqDkpN	6S 2	2s4S-	244S7	24: - 2	24: 14	2RSS	Cl P
uGCPt GClbP	- 1 2	4274	4S06	4- S1	422S	2R.0	Cl P
uCl PPdpe	- : 2	4: 2: 02	47- 672	4: 1240	47: - SS	1RS1	Cl P
FGCndpe	1S- 1	6006S0S	02s- S- 4	0S7s2- 1	0S- 7112	- R44	Cl P
FGCndpe	1S- 2	- 2: S240	- 2s66s:	- 227: 0S	- 2s7626	SR.4	Cl P
DCl . ndpe	4s 1	44s- S10	4017442	40264: 7	46- 26s2	- R6	Cl P
DCl . ndpe	4s 2	14- s0-	144: 11	14- 742	1441S:	SR4:	Cl P
DpNb. dpe	72 1	16:	20S	240	22:	2- R24	Cl P
DpNb. dpe	00 2	22S	2s0	2sS	242	7RS6	Cl P
DpNb. dpe	07 2	1s4	101	16-	16-	sR2-	Cl P
DqNDC.	27 1	02: 416:	0- s: 4- 0	0421441	0- s7- 4:	SR76	Cl P
DqNpl	1S0 1	1: 671	2SS- 2	1: ss6	1: 0s6	1R2s	Cl P
DqNpl	1S: 1	1: 1ss	1: 140	1: 1: 0	1: 160	SR14	Cl P
DCndpe	2- 2	70- 27	7s: 01	76: 16	760- 7	SR7S	Cl P
DilC. idpe	76 1	- 11461	- 1s6- 6	- 1: 6s2	- 1ss7-	1R S	Cl P
DilC. idpe	77 1	2: 1700S	2: S1471	27220S:	277S: 70	1R07	Cl P
DbNbl	- 4 1	276676	277007	2: 1270	277: 10	SR7S	Cl P
cplr dpe	1s: 1	: 762260	1S2s04S:	1S- ss1S0	1S1s7261	2Rs0	Cl P
cplr dpe	1s: 2	4211067	4172S6S	4116706	410S2- s	1R16	Cl P
cGl NNbpe	2S- 1	- 060	- 726	- : s1	- 747	2R44	Cl P
cGl NNbpe	2Ss 1	: s: s	: 212	: 662	: 4: S	2Rs6	Cl P
cq	117 1	ssS11	s- 12:	s- sSs	s- 772	1R7s	Cl P
cql . dpe	40 1	2s470-	2s61s2	24042s	2s2710	1R76	Cl P
5 ll . dpe	2- 7 1	11621s	11s666	116: 12	116264	SRs4	Cl P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iCIJa	wl P8 l N
Ll r JDl e t Nb.J&TJaJ	3 - 447 S:	& FIlbe . piJml e pJa	u7
9 Nb. iJDl e t NbJ&TJaJ	y h SM61	Tdbiq C. JM OCIJa	1
Tl ipJA.Jcqe pJdOobdqpnJa	2S2- S0 12J10asSaS4	Tl il MdbJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
Vl . l ndpe	s1 2	: - 2S1	: 261S	: 1172	: 2- - 1	1R12	Qt P
Yiiplr dpe	102 1	2606:	201- 0	20477	201- 1	1R 2	Qt P
Yiiplr dpe	102 2	12: 62	12: s0	1200-	127: 0	SR7-	Qt P
Yiiplr dpe	106 1	17s40	10: 46	17- : 6	172: 6	1R01	Qt P
Yiiplr dpe	106 2	2Ss44	1: 606	1: 6S:	1: : 4-	2R61	Qt P
Yiildpe	7: 1	1- s- 07S2	14- 4S2- 6	1410: 700	14S1: - Ss	- RS-	Qt P
Yiildpe	7: 2	146- : : -	14s: 466	14- 072S	14s- 06S	SR 6	Qt P
Zq O	66 2	12s644	1276: 2	1204: S	120206	1R21	Qt P
ZdOC. dpe	: S 1	: - S6S	: S71-	: 200s	: 2216	1R -	Qt P
ZdOC. dpe	: 1 1	2S6S0	2Ss66	21- s:	2S744	2R14	Qt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t N:&T:J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Np. i:DI e t N:&T:J	y h SM62	T qbiqC. :M OCI:J	1
TI ip:A:coe p:dOobqpn:J	2S2- S0 12:10Ja2Jas	TI il MqN:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q qpe	20 2	sS4422	772S44	77421s	7sS227	1Rs	OI P
d. ioe C. E	121 1	6044	6667	6220	6a46	4R20	OI P
dIPp. qO	0a 2	6224	6S46	6SS6	6Ss2	1R31	OI P
BI lqpe	1- a 1	a6a64S	a67S4s	aa67- s	a6- aSs	1RSa	OI P
BI lqpe	1- 0 1	s70S1s	s6sa24	1SS2021	s76422	1R67	OI P
BpIENqpe	s 1	4221	4466	44- 1	4- 0-	- RS-	OI P
BqPe biG	2Ss 1	0277244	6s24441	67744s1	0S- 2- s2	- R16	OI P
BqPe biG	2Ss 2	- S60440	- 2s7661	- 1s6s11	- 17060-	- R64	OI P
BIOe q p	71 1	6200	6117	a76S	6S7a	- R46	OI P
9 I ne qpe	1S7 1	1s6	1s6	17-	1s2	- R30	OI P
9 I ne qpe	1S6 1	44- 4	4026	41as	444S	6R 7	OI P
9 I ne qpe	111 1	2S1a	226a	2146	2142	aR74	OI P
9 I NOqpe	4- 1	1- 2- 420	1- 1sa2S	1- S4646	1- 1a764	SR0a	OI P
9 I NOqpe	44 1	2S7s1670	2122s22a	2114aSS6	21S7764S	SR7-	OI P
9 I lr C.	12 1	47107a2	a11s- 71	aS076s4	aSSa- Ss	- R20	OI P
9 I lr C.	12 2	62642	61a2s	6124a	617S6	1R1s	OI P
9 GNOIq p	- a 1	1saSas70	22- 7S1s1	24S42201	21s061aS	1SR44	OI P
9 GNOIq p	- a 2	1072- 7	172600	17a2SS	172S- 7	1R34	OI P
9 GIOe qpe	a2 2	aa617	a47sa	a- S07	a4a- S	2R4S	OI P
9 OrI N	as 2	644a2	64- S4	64- aa	64- 0S	SR12	OI P
9 Ot pl	6- 2	12S20s	11s4- 7	11s- 10	11s607	SR44	OI P
TEPt IOPqpe	1a6 1	s6- - 1	s62s0	sa1S4	sas11	SR0-	OI P
TEPt IOPqpe	1a6 2	4S- s1	- s40a	- ssaS	- ss- s	1R1a	OI P
UIr qpe	164 1	7- 2sa	070s2	0ssa7	7S672	2R3S	OI P
UIr qpe	164 2	- 16S1	- 2- 4s	- 1601	- 1704	1R S	OI P
HI nONqqpe	16S 1	7- s22	7aa7-	74S24	74a1S	1R1S	OI P
HI nONqqpe	16S 2	4Sa07	- 7746	- s46a	- s6- S	2R21	OI P
h ONe qpe	16a 1	1S06a26s	ssa4aSS	1S21S624	1S- 1S1- 1	4RS2	OI P
h ONe qpe	16a 2	4Sas7s-	4- 6a266	410s4s0	42S1aa2	- R36	OI P
& nqpe	11a 1	0407a42	02440s0	02441s7	0- 22a1-	1R7a	OI P
& nqpe	11a 2	sSs- 0s	s4s066	s- - s62	s- 1S- 6	2R1s	OI P
&C.	a4 2	4Sa2s7a	- s7S0sS	- s041sa	4SS26a0	1RSs	OI P
&C.	a6 2	04S701- a	02s0S2a0	0- S66a24	0- - 046- s	SR74	OI P
&C.	a0 2	17ss116	1701- 6-	17716- 0	1774S- 7	SR04	OI P
KIEt iC.	7- 1	- as	- a6	- 20	- 40	aRSS	OI P
LpI n	2S6 1	4- 6142	4- 6s71	440SSa	44SS42	1R 0	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Np. i:DI e t Np:&T :J	y h SM62	T dpiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:10Ja2Jas	TI il Mdp:mI e p:J	1S4dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	- 62S41	- 62020	- 64S- 1	- 62s- -	SR27	OI P
LpI n	2S7 1	1014aa1	102- sS1	10420S-	1020Sa2	SR7-	OI P
LqiGdpe	6 1	20S2SS4	26174- 2	26S66- 2	2642- a6	1R30	OI P
y I g. pPdpe	24 2	41a1607	4Sa6- SS	414- S- S	4110SS-	1R27	OI P
y I . gI . pPp	aa 2	162- - S0	16S26s6	16S4244	161SS72	SR01	OI P
y CNEr np. be	s4 1	1sS7s	1s07s	2S26a	1s014	- RSS	OI P
y CNEr np. be	sa 1	11764	11saa	126s7	12102	- R06	OI P
y CNEr np. be	s6 1	1a64-	1aS0a	1a1SS	1a20-	2R1S	OI P
y CNEr np. be	s0 1	046s	041S	0076	0aaa	2R30	OI P
y CNEr np. be	s7 1	17s77	2S147	2S- ss	1s74a	- R0s	OI P
mpOnEe dpe	1aS 1	1a0211	1a6- S0	1a7- - 0	1a027a	SR3a	OI P
mpOnEe dpe	1aS 2	46s7s	40- - S	40- 00	402- 2	SR4a	OI P
mqOkpN	6S 2	- 766s	- 07s4	- 7217	- 726S	1RS2	OI P
uGOPt GOIbP	- 1 2	aa- a	a4S1	4s17	a274	6R14	OI P
uOI PPdpe	- s 2	aS146s	4s6- 7-	4s0sS1	4s7a74	SRa2	OI P
FGOndpe	1S- 1	0- 01asa	0S44070	6s1s141	0111741	- R27	OI P
FGOndpe	1S- 2	- S0166-	- 2122sS	- 16S7- 2	- 147261	2R26	OI P
DOI . ndpe	4a 1	472s6sa	466s- 47	460S01S	402- 2a1	1R3a	OI P
DOI . ndpe	4a 2	1- 0a46	146s74	14- ss4	142741	- R 7	OI P
DpNp. dpe	72 1	21S	2- a	26s	2- 7	12Rs	OI P
DpNp. dpe	00 2	100	2SS	220	2S1	12R44	OI P
DpNp. dpe	07 2	127	127	147	1- a	7Ra7	OI P
DqNOC.	27 1	11sa0S1a	12S6a0a-	12S627s0	12S27aaa	SRa2	OI P
DqNpI	1S0 1	- 7S1	4S06	42s2	4Sa6	6RS7	OI P
DqNpI	1Ss 1	- s10	41as	- 710	- s6a	4R4-	OI P
DOndpe	2- 2	1SS120	ss414	1SSas6	1SSS4a	SRas	OI P
DiIC. idpe	76 1	2s67s0	- S2s- -	- S- 641	- S11a0	1R2-	OI P
DiIC. idpe	77 1	20a- 6- -	2071aS0	20a104-	20622sa	SR6S	OI P
DbNbI	- 4 1	- - SSsa	- - as66	- 4271-	- - 62s1	1R7s	OI P
cpIr dpe	1as 1	1S721s64	1S1saa42	1S26S70-	1S426126	- R S	OI P
cpIr dpe	1as 2	- s606- s	4116S0-	4Ss4022	4Sas407	1R37	OI P
cGI Ndpe	2S- 1	- 4Ss	- aS1	- - 42	- 410	2R -	OI P
cGI Ndpe	2Sa 1	74- 6	7461	721s	7- 02	1Ras	OI P
cq	117 1	11s40	1107S	11s22	1177-	SR06	OI P
cqI . dpe	40 1	07616	076ss	006S2	07- S6	SR07	OI P
5 II . dpe	2- 7 1	7s101	7sa2a	767sS	77a27	1R62	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Nb. i:DI e t Nb:&T :J	y h SM62	T dbiqC. :M OCI:J	1
TI ip:A:coe p:d Oobdpn:J	2S2- S0 12:10Ja2Jas	TI il MdbN:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a1 2	s- 712	s- 0S1	s2s46	s- 476	SRaS	OI P
YiipIr dpe	102 1	247a0	26- S2	26220	2a0sa	- R1a	OI P
YiipIr dpe	102 2	12aS6	12S- -	11s11	121aS	2Ra s	OI P
YiipIr dpe	106 1	10- 12	100S4	10- a4	104a6	1R2-	OI P
YiipIr dpe	106 2	17776	1ss1a	177a-	1s217	- R14	OI P
YiiI dpe	7s 1	144Ss264	14S1- 6s6	142404Ss	1422- 4a6	1R4S	OI P
YiiI dpe	7s 2	1- s22- s	14020- s	1- 4- - 62	14S207S	4R36	OI P
Zq O	66 2	776S1	7a707	7a00a	760a1	1R7a	OI P
ZqOC. dpe	sS 1	- 426S	- - S0-	- 4S60	- - 7SS	1R77	OI P
ZqOC. dpe	s1 1	7161	7- a-	04a2	0s7s	aR34	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:.J	3 - 447 11	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTI wb D8 :t&:.J	9 y SU6-	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Jaa.Jaa	&wTwUd8 :u wb r :J	1Saq. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb dCmb	20 2	60467h	60S1- a	66a24S	60SS22	SM01	dDl
qCTb nCE	121 1	0611	671h	0aS2	0- 1S	aM70	dDl
qpl r Cdl	0a 2	611h	6S74	6S67	6ShS	SM4-	dDl
Bwpmb	1- a 1	- 0Sh6S	- 017a6	- 7S01a	- 04a1S	1M44	dDl
Bwpmb	1- 0 1	6ah4S4	6a72ah	602627	66- 4- S	1M2S	dDl
Br pE8mb	h 1	2676	20S6	260h	26hS	SM4-	dDl
Bdl b mTG	2Sh 1	014h22-	6ha06S7	020h70h	0127hS-	2M20	dDl
Bdl b mTG	2Sh 2	- 1724h1	- - 207a4	- 246- 70	- 2a2244	2M24	dDl
Bpmb dCr	71 1	aaS1	aaS1	611S	a0S4	6M16	dDl
5 wob mb	1S7 1	1h6	10a	17-	17a	aM67	dDl
5 wob mb	1S6 1	46h-	41h2	44Sh	44- 1	aM06	dDl
5 wob mb	111 1	1h0S	1022	1h2h	1704	0M1S	dDl
5 w8lmb	4- 1	- - 7Shh	- - 0h06	- - 7S07	- - 7Sa1	SM82	dDl
5 w8lmb	44 1	a0aaS61	a076SS2	a026- h1	a0aa717	SM42	dDl
5 wpenC	12 1	- 1hS1aS	- 172a12	- 244776	- 2Sa74h	1M86	dDl
5 wpenC	12 2	- 0hh2	- 7242	- 7700	- 7- 0S	1M1h	dDl
5 G8hpdCr	- a 1	2S61S427	2- 61Sh00	2aah20S6	2- 201- 0S	1SM07	dDl
5 G8hpdCr	- a 2	17076a	17711S	1h- aa6	17h744	1M6h	dDl
5 Gpmb mb	a2 2	6770a	66722	660ah	6047a	1M07	dDl
5 new8T	ah 2	a4460	a- S0a	a- 604	a- 0- h	1M1S	dDl
5 nDDr p	6- 2	h4S46	h261-	h21SS	h2h1h	1M8h	dDl
&El Dpnl mb	1a6 1	1S6h76	1S61- 7	1S0264	1S60h6	SM4a	dDl
&El Dpnl mb	1a6 2	42126	4- 444	41- 20	422hh	2M4-	dDl
Fpemb	164 1	001a7	06602	0a0a7	06a2h	SM1-	dDl
Fpemb	164 2	- 1S- 6	2h0h-	277Sa	2h707	- M04	dDl
Hwon8Cmb	16S 1	77S4S	70621	7614a	7026h	1M14	dDl
Hwon8Cmb	16S 2	4SS4-	- h40a	- h706	- h0h7	SM0-	dDl
y n8b mb	16a 1	1SS70a- 6	1SS6720-	hh4aa7-	1SS- - 0h7	SM00	dDl
y n8b mb	16a 2	4S112- h	4- 7726-	41aa6- 2	417aS4a	4M4a	dDl
tComb	11a 1	0- 6- - Sh	0Sh0h- S	0201hS0	0244- 72	1M76	dDl
tComb	11a 2	hSaa4a	h6- 44-	h- 27h-	h- - h6S	- M1S	dDl
tpnC	a4 2	- 44a2aa	- 4a6621	- 4S6S21	- 4- ah66	SM00	dDl
tpnC	a6 2	62S610h-	616011SS	62- 0a7- a	62S- 624-	SM40	dDl
tpnC	a0 2	1a70h01	1ahS006	1ah0241	1ah1hh6	SM1S	dDl
KpEDTnC	7- 1	- 42	- 22	- 0a	- 40	0M64	dDl
Lr wo	2S6 1	2h67aa	2h- - 4h	- SS07a	2h6hh6	1M2a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:.J	3 - 447 11	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU6-	&c8mTcnC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10Jaa.Jaa	&wTwUc8 :u wb r :J	1Saq . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	24a0S6	2417aS	246ha-	2447- 0	1N8h	dDl
Lr wo	2S7 1	1107hSh	116- 0a7	110a2ah	1102642	SM00	dDl
LcTGcmb	6 1	264- - 26	26121h-	2666440	264S6aa	1N8-	dDl
9 wgCr l cmb	24 2	h20- 00	h21S64	h12S42	h2S161	SM74	dDl
9 wCgwCr l r	aa 2	1aa4a77	1a42010	1a2a747	1a41Sa1	SM14	dDl
9 n8Eeor Cmb	h4 1	- 116h	- 170h	- 1661	- 1a0S	1M1a	dDl
9 n8Eeor Cmb	ha 1	1hh1a	1h202	1hSh0	1h427	2M22	dDl
9 n8Eeor Cmb	h6 1	2- a- 0	2- 662	2- 462	2- aa4	SM4-	dDl
9 n8Eeor Cmb	h0 1	12S14	11h02	11a7h	117a7	1M17	dDl
9 n8Eeor Cmb	h7 1	- Saa1	- 11h4	- S- 2a	- S6hS	1M40	dDl
u r noEb cmb	1aS 1	1hh6S7	1haahh	1h6a- 1	1h0246	1N86	dDl
u r noEb cmb	1aS 2	ah74-	a7a01	a0- 02	a7aha	2M11	dDl
u cdkr 8	6S 2	- - - 0h	- - 2- 2	- 2017	- - 11S	1N8a	dDl
NGhl DGhpml	- 1 2	- 10a	- 1SS	- SaS	- 1Sh	2N82	dDl
NnTwl l cmb	- h 2	2ha70S	2h1626	2h622S	2h4a02	SM70	dDl
. Ghocmb	1S- 1	027S111	02061S6	01h- 04a	024hh77	SM00	dDl
. Ghocmb	1S- 2	- 1S2S4S	- 24a- 17	- 1hSa76	- 10h- 1a	2M20	dDl
l dwCocmb	4a 1	47a46S6	4720h26	40a4S62	47121h7	1N87	dDl
l dwCocmb	4a 2	1- 04a0	1442hS	14172S	14117h	2M4a	dDl
l r 8 Ccmb	72 1	266	- 40	262	2h2	16M44	dDl
l r 8 Ccmb	00 2	1hS	14-	1a0	16-	14M01	dDl
l r 8 Ccmb	07 2	1- 6	1a6	14-	14a	0N8S	dDl
l c8dnC	27 1	0a46h64	00776h6	0724h7a	002S21a	1M16	dDl
l c8vr p	1S0 1	2774	2a- 4	2h10	2007	0M0a	dDl
l c8vr p	1Sh 1	2- 2a	2660	27h2	2627	1SM76	dDl
l nocmb	2- 2	040- -	04h10	0- 1h2	04271	1M27	dDl
l TpnCTcmb	76 1	16- 712	161h72	162207	1626h1	SM0S	dDl
l TpnCTcmb	77 1	1471a7a	14h10- 2	14h7S72	14hS466	SM46	dDl
l m8mp	- 4 1	- - 172h	- 2a174	- 2a0Sh	- 20a04	1M1-	dDl
Ar pecmb	1ah 1	1Sa- 1472	1S17011S	1S420404	1S- 72S22	1M0S	dDl
Ar pecmb	1ah 2	- h- 66a-	41- 611S	- h71a44	4S171S2	2M0S	dDl
AGw8cmb	2S- 1	24h2	2a- 4	24aS	24h2	1M00	dDl
AGw8cmb	2Sa 1	a7- a	6S- a	a74-	ahS4	1M12	dDl
AcC	117 1	1aaah	1a767	1a66S	1a6h6	1N8S	dDl
AcTwCcmb	40 1	h2146	h1aa7	h221-	h1h02	SMlh	dDl
RpwCcmb	2- 7 1	76110	7- 122	70S47	7a42h	2M4S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :u wb r :J	1Saq. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	07117	06077	0a72-	06h1S	1M4S	dDI
YTTr peomb	102 1	2a1a7	2a- 0a	247hS	2a141	SM10	dDI
YTTr peomb	102 2	12S- -	11- hh	114- -	11622	- M80	dDI
YTTr peomb	106 1	10a0h	10107	1671h	101h2	2M21	dDI
YTTr peomb	106 2	17Sa0	1hS2S	1767S	17a76	2M4-	dDI
YTTpomb	7h 1	142hh72a	14SSSh7-	14216a01	141024ah	1M8h	dDI
YTTpomb	7h 2	1- 017h1	1444SSa	142SSa0	1411h74	2M4S	dDI
ZdCd	66 2	6712-	667hS	660- S	60247	1M1-	dDI
ZqpdnComb	hS 1	a- 6h6	aa407	a4271	a447a	1M60	dDI
ZqpdnComb	h1 1	12S40	1167h	126- 1	12122	- M12	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0S0- 16	0S6272	0S17- S	0Sa14-	SM41	dDl
qCTb nCh	121 1	1S146	E02E	1S701	1S24E	aM64	dDl
qpl r Ccl	0a 2	0601	0a22	06SE	06SS	SMEE	dDl
Bwpcmb	1- a 1	aaEa06	aaa062	aa41- E	aa64E2	SM4S	dDl
Bwpcmb	1- 0 1	EESE4S	E74- aE	E60EaE	E71S76	1M21	dDl
Br ph8mb	E 1	- 014	- 024	- 64S	- 6E-	1M24	dDl
Bdl b mTG	2SE 1	67Sa744	021E1- 4	6E0a74-	0SSS204	2ME0	dDl
Bdl b mTG	2SE 2	- 16S622	- 27- S- S	- - 42704	- 262106	2M7a	dDl
Bpmb cCr	71 1	7S44	74E4	7- 1E	7276	2M04	dDl
5 wob cmb	1S7 1	- E6	42a	- 46	- 7E	1SMS	dDl
5 wob cmb	1S6 1	4a4-	4a- 4	47a1	464-	- M7E	dDl
5 wob cmb	111 1	4- 11	4S47	42- E	42SS	- M24	dDl
5 w8lcmb	4- 1	1S2SEa0	1S224- 2	1S1- a6a	1S17E7a	SM40	dDl
5 w8lcmb	44 1	1022S- Ea	10- S1144	1022061a	1024E017	SM26	dDl
5 wpenC	12 1	4477- 71	4a27ES6	4a7E67a	4a- a6a0	1M12	dDl
5 wpenC	12 2	aaSE6	aaSa4	a- a- E	a4a6-	1M0-	dDl
5 G8hpcCr	- a 1	2S1- S676	2- aaE400	2a2- 2E70	22E04- 7-	11M2	dDl
5 G8hpcCr	- a 2	17SaES	17- 7S6	177761	17441E	2M26	dDl
5 Gpmb cmb	a2 2	6ESSa	67701	670a1	67706	SM17	dDl
5 new8T	aE 2	- 7ES-	- 740E	- ES74	- 7722	SM7S	dDl
5 nDDr p	6- 2	1E- 470	1E2S16	1E- 104	1E27E2	SM4S	dDl
&hl Dpnl cmb	1a6 1	74aa1	76S17	74044	7a1S4	SME4	dDl
&hl Dpnl cmb	1a6 2	- 40- a	- 4- 67	- 460a	- 4aE-	SM40	dDl
Fpecmb	164 1	6- aS2	62S21	6S7ES	621- 7	2M11	dDl
Fpecmb	164 2	240E-	24E60	2472S	2476S	SM17	dDl
Hwon8Ccmb	16S 1	0- E1-	02- 64	04- - -	0- a- 0	1M41	dDl
Hwon8Ccmb	16S 2	- - 46a	- - 71-	- - E6S	- - 046	SM0a	dDl
y n8b cmb	16a 1	EE- E40S	1S1SS- E0	1S146674	1SS6217-	1M37	dDl
y n8b cmb	16a 2	4S600EE	4- 44SE7	4200E14	422EE- 0	- M41	dDl
tCocmb	11a 1	6E2444a	0- 21EE7	01EE1E0	0147a40	2M7a	dDl
tCocmb	11a 2	E1aEa2	Eaa7EE	Ea04a1	E4- 1S1	2M4E	dDl
tpnC	a4 2	270- a4-	204S167	27- - - SS	271a601	2M4-	dDl
tpnC	a6 2	a1SaaSaS	aSE- 2241	a1- S- 4SS	a1SE67E0	SM0	dDl
tpnC	a0 2	117E2S2	12170S2	11E0E74	12S1E6-	1M26	dDl
KphDTnC	7- 1	- a1	- 4a	- 11	- - 6	6M41	dDl
Lr wo	2S6 1	1- 26001	1- - a1E-	1- 1a74-	1- 2aE- 6	SM0-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1SE712-	11160E1	1SE0Sa7	11S- EE1	1N81	dDl
Lr wo	2S7 1	aa2SEaS	aa071E0	aa2aE76	aa41011	SM10	dDl
LdTGmb	6 1	2a42742	2664761	267a477	26- 1S6-	2M4-	dDl
9 wgCr l mb	24 2	100221S	1022271	10- Saa2	1041671	1M44	dDl
9 wCgwCr l r	aa 2	1SE7211	1S0710S	1SE2426	1S7E6S2	SM4a	dDl
9 n8heor Cmb	E4 1	- a10S	- 47a-	- 44- a	- 471E	1N86	dDl
9 n8heor Cmb	Ea 1	144- -	1- 44S	1- 4ES	1- 077	4N86	dDl
9 n8heor Cmb	E6 1	1E6- E	1E02-	1Ea64	1E642	SM4S	dDl
9 n8heor Cmb	E0 1	764a	E212	74S-	70a-	4M04	dDl
9 n8heor Cmb	E7 1	220E4	220E4	214- 4	22- 41	- M42	dDl
u r nohb cmb	1aS 1	14446E	144a4E	1442S1	1444S6	SM1-	dDl
u r nohb cmb	1aS 2	4- 04a	42601	4- 0S1	4- - 02	1M4S	dDl
u cdkr 8	6S 2	26417	2a- - E	266Sa	26121	2M62	dDl
NGhl DGhpml	- 1 2	4Ea1	4Ea1	a167	aS2-	2M4E	dDl
NnTwl l mb	- E 2	- 06EE1	- 06Ea1	- 06SEE	- 0667S	SM1-	dDl
. Ghocmb	1S- 1	671- - - 1	01- S- 7-	02SEEa4	0Sa1222	2M47	dDl
. Ghocmb	1S- 2	- S67S74	- 2Sa74E	- 26S21-	- 107S47	- M12	dDl
l dwCocmb	4a 1	446E1a0	47a701E	47102S4	401aS20	4M44	dDl
l dwCocmb	4a 2	1- 0a0E	14- 7- 0	14041-	142E4-	- M47	dDl
l r 8 Cmb	72 1	246	1EE	2- 0	220	11M1	dDl
l r 8 Cmb	00 2	2S0	1- 0	17S	104	2SM2a	dDl
l r 8 Cmb	07 2	1- 1	111	1- 0	126	1SM07	dDl
l 8dnC	27 1	1S- 6E61E	1S1- 0- Sa	1S26a20a	1S2a04SS	1M1-	dDl
l 8vr p	1S0 1	74a-	7707	7661	7664	2M46	dDl
l 8vr p	1SE 1	72S-	0EE4	7161	711E	1M6	dDl
l nocmb	2- 2	10S067	160014	10- 144	10Sa42	1M6S	dDl
l TpmCTcmb	76 1	40SEa6	402221	40S274	4011a4	SM21	dDl
l TpmCTcmb	77 1	4- S6E- a	42a20SS	42644S2	420460E	SM00	dDl
l m8mp	- 4 1	- aEE- 7	- 6aSS-	- 626S6	- 62a1a	SM0S	dDl
Ar pecmb	1aE 1	EEE17E6	1S- 0- 7- 7	1S2- 12S7	1S1E7E71	1M7E	dDl
Ar pecmb	1aE 2	- E17- - 2	41a0442	4120SS4	4S60aE-	- M2S	dDl
AGw8mb	2S- 1	20aE	27aS	2a2a	2011	6M17	dDl
AGw8mb	2Sa 1	60a2	6720	621S	6aE6	aM1S	dDl
AdC	117 1	2- 746	2- 40E	2- 446	2- aES	SM44	dDl
AdTwCmb	40 1	227a7a	22716-	224ES4	220210	SM7E	dDl
RpwCmb	2- 7 1	E62a0	Ea000	E4E0S	Ea667	SM07	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa1	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :u wb r :J	1S6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a1 2	0- 17E	0- 2S-	01EE-	020Ea	SNEa	dDl
YTTr pecmb	102 1	17771	1E- 2-	1707E	17EE0	1N4S	dDl
YTTr pecmb	102 2	7a0S	702S	7442	7a00	1N02	dDl
YTTr pecmb	106 1	1- - 72	1- 616	1- 172	1- - E-	1N02	dDl
YTTr pecmb	106 2	16- aa	1017E	1014a	167E6	2N07	dDl
YTTpcmb	7E 1	1- a- 7a42	14161E66	1412EE11	1- E4- 40-	2N42	dDl
YTTpcmb	7E 2	12E- 71S	14146- a	14- 627-	1- 71a06	aN46	dDl
ZdCd	66 2	1- 0442	1- 4604	1- 6SSE	1- 6S42	1N82	dDl
ZqpdnCcmb	ES 1	0aS1E	0647a	0aE04	0a726	SNE7	dDl
ZqpdnCcmb	E1 1	10176	10- S-	101a-	10214	SN46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :uwb r :J	1S0q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	70677a	7ah77h	702ha2	76hhSh	1M82	dDl
qCTb nCE	121 1	47a1	4h4-	a117	4h0S	2M0-	dDl
qpl r Ccl	0a 2	1ha0	17h-	1h1S	1h2S	1M0-	dDl
Bwpcmb	1- a 1	64- 24-	6- 4771	64- a0a	64Sa66	SM00	dDl
Bwpcmb	1- 0 1	11- 61hS	111a- 4-	111h411	112- 647	SM17	dDl
Br pE8mb	h 1	2- 21	22a4	2240	2204	1M7S	dDl
Bdl b mTG	2Sh 1	6- 4- 770	67h- - 4a	0- 270S1	67aa- 11	0M2S	dDl
Bdl b mTG	2Sh 2	- - 41a14	- - 11h60	- S60hhh	- 24S4h-	4M0-	dDl
Bpmb cCr	71 1	60- a	6a67	6a- a	661-	1M62	dDl
5 wob cmb	1S7 1	1h6	1h6	177	1h-	2M4h	dDl
5 wob cmb	1S6 1	4226	44- 4	4- 42	4- - 4	2M41	dDl
5 wob cmb	111 1	2247	221a	2416	22h-	4M0h	dDl
5 w8lcmb	4- 1	- 0aahS	- 604S1	- 6h0- a	- 0ShSh	1M14	dDl
5 w8lcmb	44 1	6- 611aS	61h447h	61- 4hh1	62- S21S	1M77	dDl
5 wpenC	12 1	6h2764S	0S46S17	024a72S	0S0- 4h-	2M20	dDl
5 wpenC	12 2	74667	741- 2	7406h	74a2-	SM41	dDl
5 G8mpCr	- a 1	2SS744- -	2- S22274	24h62601	2267h0h6	1SM72	dDl
5 G8mpCr	- a 2	107SSh	174hh6	1702a7	17- 421	2M0-	dDl
5 Gpmb cmb	a2 2	- 7a12	- 7a4a	- h2h4	- 7074	1M14	dDl
5 new8T	ah 2	- 0060	- 0412	- 06S-	- 0ah4	SM40	dDl
5 nDDr p	6- 2	h1702	h2a22	h2- 07	h22a0	SM0	dDl
&El Dpnl cmb	1a6 1	a0S71	a6S6S	a70a4	a02hh	2M0	dDl
&El Dpnl cmb	1a6 2	2- a64	2- 1a-	2- 6S7	2- 442	1M80	dDl
Fpecmb	164 1	462- h	4a- 11	461a6	4ahS2	1M12	dDl
Fpecmb	164 2	17660	171- h	17266	17- a0	1M4S	dDl
Hwon8Cmb	16S 1	aS270	a21h4	a1a60	a1- aS	1M7h	dDl
Hwon8Cmb	16S 2	2- 771	2- 04a	2- 70a	2- 7- 4	SM12	dDl
y n8b cmb	16a 1	7hh70ha	hh7420-	1S1416- 0	h0S72- a	6M7	dDl
y n8b cmb	16a 2	4- - aS6a	4221676	- h7a07a	417S74a	4M26	dDl
tCocmb	11a 1	6ah107-	0114Sh4	0101170	6hahS21	4M4h	dDl
tCocmb	11a 2	h7hS42	h60240	707772	h4aSa0	6M10	dDl
tpnC	a4 2	2060a2a	267762-	20SS22h	20170h2	1M40	dDl
tpnC	a6 2	476S7h76	4001hh17	47- 04a2-	472- 4406	SM16	dDl
tpnC	a0 2	1166ha7	11a2- h4	114174a	11a- 0- 2	1M8h	dDl
KpEDTnC	7- 1	- 14	- - 1	- 42	- 2h	4M4S	dDl
Lr wo	2S6 1	46a- 01	40a417	46202S	4607- 6	1M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :uwb r :J	1S0q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	- 76S41	- 70ahS	- 74ah2	- 76S04	SMh	dDl
Lr wo	2S7 1	17166- a	17- 10hh	17- 0h60	17277S1	SM8S	dDl
LdTgmb	6 1	24S06S-	26- 66h1	20212- -	2a77aSh	6M20	dDl
9 wgCr l cmb	24 2	7S672-	7SS121	0hh046	7S22- S	SM4S	dDl
9 wCgwCr l r	aa 2	a020- 2	a602a1	a6012-	a6hS- a	SM46	dDl
9 n8Eeor Cmb	h4 1	16- 6S	10ha4	10S44	1011h	4M60	dDl
9 n8Eeor Cmb	ha 1	44Sh	4aS1	4- S1	44S4	2M20	dDl
9 n8Eeor Cmb	h6 1	7S61	0- 00	011h	0a1h	6M40	dDl
9 n8Eeor Cmb	h0 1	- Sah	2042	2674	2727	0M14	dDl
9 n8Eeor Cmb	h7 1	0S6S	0S- a	0a20	02S7	- M74	dDl
u r noEb cmb	1aS 1	h- a00	h10Sa	h424h	h- 100	1M41	dDl
u r noEb cmb	1aS 2	2721-	27S1-	20042	20h7h	SM74	dDl
u cdkr 8	6S 2	100S4	17- a2	107aa	10h0S	1M7h	dDl
NGhl DGhpml	- 1 2	6167	ah1S	6a17	61hh	4M1-	dDl
NnTwl l cmb	- h 2	a20447	a11a71	a1hh60	a1h66a	1M4-	dDl
. Ghocmb	1S- 1	6407- ah	0S- 210-	011S7- 0	670- 07h	aM81	dDl
. Ghocmb	1S- 2	- 2h- 41a	- - 1227-	- S- 4216	- 21- - Sa	4M74	dDl
l dwCocmb	4a 1	4- 2aaa4	46a0aah	47162- 6	4ahh07-	aM44	dDl
l dwCocmb	4a 2	14h1S1	146S6-	1- 17- 4	142- - -	6M47	dDl
l r 8 Ccmb	72 1	110	112	71	1S4	17M1-	dDl
l r 8 Ccmb	00 2	0-	1- S	120	11S	27M1	dDl
l r 8 Ccmb	07 2	76	74	66	0h	14M8S	dDl
l 8dnC	27 1	1Sh721a1	11127- 06	1Sha- a11	11S21- 46	SM7a	dDl
l 8vr p	1S0 1	2S- 4	2SSh	2S10	2S2S	SM0-	dDl
l 8vr p	1Sh 1	17h2	1760	1742	1760	1M4	dDl
l nocmb	2- 2	ah7- 2	a7044	6S- - -	ah6- 0	1M6	dDl
l TpnCTcmb	76 1	7- 041-	7- h067	7a4402	74- 774	1M1S	dDl
l TpnCTcmb	77 1	06100a0	060- 4- h	044- S7h	0a07Sha	1M4h	dDl
l m8mp	- 4 1	- 2- h6a	- 11716	- Shaa6	- 1a11-	2M46	dDl
Ar pecmb	1ah 1	h166a42	1S- 6702a	1S46- 647	hhhh6- 7	0M2-	dDl
Ar pecmb	1ah 2	4- 261aS	4S00a14	- h1a- S2	41S6- 22	aM84	dDl
AGw8mb	2S- 1	2S74	1760	2S- 4	1hha	aM0h	dDl
AGw8mb	2Sa 1	46- 4	4hSh	a- 6S	4h67	0M0	dDl
AdC	117 1	11602	11S21	11614	114- 6	- M1a	dDl
AdTwCcmb	40 1	7ha1-	7h126	77h10	7h176	SM4	dDl
RpwCcmb	2- 7 1	6- S2-	6- 626	6- SS6	6- 21h	SM46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa4	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :u wb r :J	1S0q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	a1 2	6hShh	670a0	6720h	67012	SM8S	dDl
YTTr pecmb	102 1	1447-	1a106	1- 7hh	14a1h	4M4S	dDl
YTTr pecmb	102 2	6424	017S	6h1h	6741	aM01	dDl
YTTr pecmb	106 1	hh0h	1S06-	1S- h6	1S- 0h	- M07	dDl
YTTr pecmb	106 2	1a701	16Shh	1a1a-	1a0S7	- M14	dDl
YTTpcmb	7h 1	12- h1407	1- - 17471	1- 4h- 427	1- S600h6	4M4-	dDl
YTTpcmb	7h 2	14Sh061	14- - 0aS	1216a0a	1- a- - 62	7M7S	dDl
ZdCd	66 2	07- 02	0h24S	07- a2	076aa	SM04	dDl
ZqpdnCcmb	hS 1	- 74ha	- 707S	- h7S7	- hS27	1M00	dDl
ZqpdnCcmb	h1 1	h1S-	77S-	72S-	70S-	aM20	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RRen&psml Re:D :J	5 9 SFyy	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	20 2	61264S	6110-6	yh0761	6S0412	1U6	ql w
cn&AmonE	121 1	1760	2110	2SSh	1hh0	6U27	ql w
crwenAq	0y 2	1417	1-1y	126-	1--2	yUh2	ql w
BsrAm	1-y 1	411h6S	411-41	4S6466	4Shh22	SU0-	ql w
BsrAm	1-0 1	0-Sy26	0-2S2y	01S0-4	024427	1U64	ql w
BerEPAm	h 1	1622	1y76	16Sy	16S4	1U1-	ql w
BAmu&G	2Sh 1	01S4Sh4	6h0-S67	6774026	6h702h6	1Uy7	ql w
BAmu&G	2Sh 2	-26-1S2	-1y0hS2	-277177	-2-6-h0	2U14	ql w
BromAne	71 1	47yh	yy7y	y2y1	y2-2	6Uh4	ql w
RsOmAm	1S7 1	0y	1-7	h6	1S-	-SUh6	ql w
RsOmAm	1S6 1	-h60	-hy1	-0-4	-774	-Uy	ql w
RsOmAm	111 1	11-6	11-6	1S6h	1114	-U4h	ql w
RsRqAm	4- 1	20271h	2026yS	2044y7	20--Sh	SU0	ql w
RsRqAm	44 1	462-1h0	4yy61yy	467-442	462Sh-1	1U7	ql w
Rsrbon	12 1	--20-1h	--hhh04	-40S7y6	--hh-7-	2U1	ql w
Rsrbon	12 2	4Sh4h	4S-71	4S1Sy	4S407	1US6	ql w
RGRorAne	-y 1	2S-0217S	2-662y71	2y200710	2-1S41h-	1SU72	ql w
RGRorAne	-y 2	17-22-	17647S	17042y	17y01S	1U1h	ql w
RGromAm	y2 2	24211	24077	2-7-S	24206	1Uh	ql w
RobsR&	yh 2	2y7yS	2y6h-	2y216	2yy76	1U2h	ql w
RolI er	6- 2	47127	471S7	4726y	47160	SU17	ql w
t EwI rowAm	1y6 1	4S1y2	412h7	4S-07	4S61S	1U4h	ql w
t EwI rowAm	1y6 2	16760	167y1	16000	167-2	SU27	ql w
. rbAm	164 1	-41-6	-4-y4	---S1	--h-S	1U64	ql w
. rbAm	164 2	1-11-	1-210	127hS	1-S0-	1U27	ql w
HsOoPAm	16S 1	-0-27	-01-6	-6yy1	-0SSy	1USh	ql w
HsOoPAm	16S 2	10-01	10447	102-7	10-y-	SU61	ql w
9oPmAm	16y 1	1S1yy14h	1SSyh-h2	h07S2S6	hhh724h	1Uhy	ql w
9oPmAm	16y 2	41yS77y	41yS66-	4224y4h	410y-66	1US2	ql w
DrOAm	11y 1	016y4-0	024407S	01-2-44	017S7y4	SU7S	ql w
DrOAm	11y 2	h-S2y0	h24-4h	h-20h4	h2h1-4	SU40	ql w
Don	y4 2	17y0444	171474S	107ShhS	17100y7	2U1	ql w
Don	y6 2	--16-67-	-2y-S0y6	-221011y	-26-017y	1U47	ql w
Don	y0 2	07S414	000-06	002y-7	006006	SUy1	ql w
KrEI &on	7- 1	-S6	2hh	20y	2h-	yUy6	ql w
LesO	2S6 1	21yh47	2Shh--	2S74hy	2114y7	1U70	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyy	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	100y70	10y- y1	104h- 0	10yhy7	SU71	ql w
LesO	2S7 1	746- 74	726y77	716- y4	72h00y	1U74	ql w
LA&GAum	6 1	267SS1S	26S00S6	26yy0h4	26407- 0	1Uh	ql w
5 sgnewAum	24 2	6S64- 6	61S6- 7	6116S-	6Shyyh	SU4y	ql w
5 sngsnewe	yy 2	- 7S270	- 0204y	- 60471	- 0- yS4	1U02	ql w
5 oPEbOenum	h4 1	1S- 6-	h7- 0	1S6S4	1S267	- U72	ql w
5 oPEbOenum	hy 1	2y2y	2274	2- yS	2- 76	yU2-	ql w
5 oPEbOenum	h6 1	4242	42h2	4110	4210	2U14	ql w
5 oPEbOenum	h0 1	1y10	1- S7	142y	1410	0U0	ql w
5 oPEbOenum	h7 1	- 7yh	- 642	- y06	- 6h2	4US1	ql w
NeoOEmAum	1yS 1	6hy4S	6h727	6h101	6hy1-	SU40	ql w
NeoOEmAum	1yS 2	2Sh- -	2S2- h	2Syy-	2Sy0y	1U6h	ql w
NAqkeP	6S 2	1- 01S	12hSh	1- y- 0	1- - 7y	- U1y	ql w
8GowI Goruw	- 1 2	24- 4	24SS	21h2	2- 42	yUyh	ql w
8o&swwAum	- h 2	2S7271	2Syh02	2S- 440	2SyhSS	1U10	ql w
CGoOAum	1S- 1	012y4y-	011- 274	01Sy0y-	01147- S	SU14	ql w
CGoOAum	1S- 2	- 2216- 6	- 160y77	- 106266	- 1774h0	SUh1	ql w
pqsnOAum	4y 1	400- 21h	40S- 4- h	40261- -	40- 426-	SU0y	ql w
pqsnOAum	4y 2	14210y	1- h6- 7	1- h762	14Syy7	1USS	ql w
peRenAum	72 1	20	- y	h2	y2	67U74	ql w
peRenAum	00 2	h-	6-	h0	74	21U04	ql w
peRenAum	07 2	06	67	0y	0-	yUh0	ql w
pARqon	27 1	7h46h- -	h- S2yh4	h22- S- 6	h1y0y21	2US4	ql w
pARer	1S0 1	h42	h7-	1Sy7	hhy	yUhy	ql w
pARer	1Sh 1	1SSS	h7-	742	h42	hU24	ql w
poOAum	2- 2	hS- h6	h1SS7	7h416	hS204	SU7h	ql w
p&on&Aum	76 1	y044S0	yh0612	y7yS1h	y7y60h	1Uh7	ql w
p&on&Aum	77 1	y1h010y	y4- 17h0	y277771	y- Syh74	2U2-	ql w
puRur	- 4 1	204471	200y20	206yS1	20610S	SUy6	ql w
i erbAum	1yh 1	1S- 7h760	1S212600	1S2h147S	1S2h7SS7	SU76	ql w
i erbAum	1yh 2	41yhh42	- 70- 17y	4S16h7-	4S160S-	- Uy0	ql w
i GsRAum	2S- 1	1- 7-	1y10	1y2y	140y	yUh	ql w
i GsRAum	2Sy 1	- 742	- 760	- 642	- 074	- U26	ql w
i An	117 1	04y2	0y1h	0- 20	04- -	1U1	ql w
i A&snAum	40 1	y66- 7	y01- h	y0742	y02S6	1US6	ql w
MrsnAum	2- 7 1	- - 227	- 26y1	- 46y6	- - y12	- US7	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyy	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	44171	44SS0	4- 070	4- hh2	SU4y	ql w
Y&erbAum	102 1	1S26-	1S16-	1SS0h	1S167	SUhS	ql w
Y&erbAum	102 2	yS2h	4- y6	4012	46hh	0U16	ql w
Y&erbAum	106 1	0011	7S76	02- y	0600	yUyy	ql w
Y&erbAum	106 2	14- 14	14- 40	141- 6	1426y	SU7S	ql w
Y&&Aum	7h 1	1- - 2- 464	1- 6yy7h2	1- 007- 02	1- y7yh1S	1U0-	ql w
Y&&Aum	7h 2	120717S	1261h12	12y0SS1	126y6h7	SU77	ql w
ZAnq	66 2	- 2- 4S	- 1h0-	- 140y	- 1h2h	1U16	ql w
ZAqonAum	hS 1	22744	24y22	2- 0h6	2- 021	- Uyy	ql w
ZAqonAum	h1 1	y4S1	y026	y0S1	y61S	- U2-	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	87
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	Rn&w
cRmAAm	20 2	70hS60	762S7C	7h71S7	76hS77	1M3-	ql w
cn&AmonE	121 1	- 2- 4	- - 06	- 1SC	- 2- C	4M12	ql w
crwenAq	0h 2	h- 4C	h20C	h12C	h2h2	2M1-	ql w
BsrAm	1- h 1	4C1S42	47C066	47- 20h	477S27	SM7h	ql w
BsrAm	1- 0 1	76627h	70h471	76- h77	7674h1	SM02	ql w
BerEPAm	C 1	2621	261C	2h7h	26S7	SM07	ql w
BAmu&G	2SC 1	0ShSS1h	6CS- 47C	0S6- 1SC	0SShh- 7	1M26	ql w
BAmu&G	2SC 2	2771C4S	- 17- SC-	- 1Ch67C	- S76CS7	hM0h	ql w
BromAne	71 1	616S	627h	6420	62CS	2M12	ql w
5 sOmAm	1S7 1	16-	12C	1S4	1- 2	22M17	ql w
5 sOmAm	1S6 1	4142	- C42	- CS1	- CCh	- M4-	ql w
5 sOmAm	111 1	1CSC	10h7	1006	1714	4M1h	ql w
5 sRqAm	4- 1	24- C64	240- Sh	2476Sh	246624	SM00	ql w
5 sRqAm	44 1	4201SC1	4160- 7-	4140- 2C	41Ch267	1M17	ql w
5 srbon	12 1	- 71S022	- C22176	- 7C2C06	- 70h2Ch	1M4C	ql w
5 srbon	12 2	46066	40h20	40SS1	40SC7	SM7-	ql w
5 GRorAne	- h 1	2S40C202	2- h464S0	2h0S262S	2- 242066	11M2C	ql w
5 GRorAne	- h 2	176044	1C- 16S	1C4640	1C1h10	2M1C	ql w
5 GromAm	h2 2	01420	0S- 72	0S640	0S71C	SM00	ql w
5 obsR&	hC 2	076- C	0676S	004SC	006- 6	1M10	ql w
5 ol l er	6- 2	14- h7h	14S121	142Ch2	14221C	1MS	ql w
t EwI rowAm	1h6 1	60C72	0S6Ch	677h-	6C100	2M3S	ql w
t EwI rowAm	1h6 2	270- 4	27047	27711	27064	SM14	ql w
FrbAm	164 1	h771h	6SSC4	hC610	hChSC	1M3C	ql w
FrbAm	164 2	24122	2- 10S	2- - 11	2- h- 4	2M17	ql w
HsOoPAm	16S 1	6446h	640C1	64616	64624	SM2h	ql w
HsOoPAm	16S 2	2C06S	2C- 2C	2CS72	2C- CS	1M10	ql w
y oPmAm	16h 1	1SSh4- 20	1SS060S2	C0402- -	CChC421	1M7h	ql w
y oPmAm	16h 2	- 6S61S1	42SS42h	412- 606	- C060- 4	7M1-	ql w
DrOAm	11h 1	0247760	0S6h- 6C	6Ch6420	0SCS221	2M37	ql w
DrOAm	11h 2	7S1- 74	C44276	C- 1641	7C24- 0	7M76	ql w
Don	h4 2	42S1h- h	41174S7	41C7h26	410272-	1M1-	ql w
Don	h6 2	0h046S67	047C21CC	040- 74C1	0h12hh76	SM02	ql w
Don	h0 2	1C6SSh0	1C- C60S	1C64h67	1Ch406h	SM67	ql w
KrEI &on	7- 1	- SC	- S1	- - 6	- 1h	hM74	ql w
LesO	2S6 1	- 2h6SC	- 26C- 1	- 24446	- 2h662	SM17	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	Rn&w
LesO	2S0 1	26h760	2677hC	266244	266CCS	SM61	ql w
LesO	2S7 1	12621- 6	12010S0	1262hC1	126h407	SM4-	ql w
LA&GAum	6 1	26- hh4-	26- 77S7	260- 02C	264C- 6S	SM7S	ql w
9 sgnewAum	24 2	1277h72	12- 4667	12hCC7C	1261S7S	2M14	ql w
9 sngsnewe	hh 2	10441- 6	1011C22	1044Chh	10- - 601	1M3C	ql w
9 oPEbOenum	C4 1	1- S71	11C22	11014	122- C	6M52	ql w
9 oPEbOenum	Ch 1	hC1S	h7- h	62- h	hCC-	- M1h	ql w
9 oPEbOenum	C6 1	071C	7107	066C	077C	- M1	ql w
9 oPEbOenum	C0 1	- 010	- 060	- C06	- 72S	- M1C	ql w
9 oPEbOenum	C7 1	C42S	C2Ch	C7h4	Ch2-	- M37	ql w
NeoOEmAum	1hS 1	1116S0	1SCh- 6	11S4- 0	11Sh26	SM04	ql w
NeoOEmAum	1hS 2	- - hS2	- 24h6	- - - C2	- - 110	1M04	ql w
NAqkeP	6S 2	hS720	hSS67	4C2h7	hSSh1	1M10	ql w
8 GowI Goruw	- 1 2	4- SC	40hC	4C26	466h	6M74	ql w
8 o&swwAum	- C 2	4C7S0S	4C4S1C	4C2716	4C4C67	SM16	ql w
. GoOAum	1S- 1	01C4C07	0SC7hCC	01SSS01	01- 1216	SM00	ql w
. GoOAum	1S- 2	207h42S	- 2h2h46	- 2S4- 07	- S7S072	7M4	ql w
pqsnOAum	4h 1	40Sh067	40S6161	40- 72S-	4016011	SM-C	ql w
pqsnOAum	4h 2	12S4h-	14- S72	14- 111	1- hh4C	CM64	ql w
pe&enAum	72 1	- 06	- 4h	2C0	- 4S	11M67	ql w
pe&enAum	00 2	C0	11-	12-	111	12M12	ql w
pe&enAum	07 2	127	112	1S1	114	11M04	ql w
pAqon	27 1	1- 6h4- 66	1- 4- h4h-	1- 404C27	1- h21h7-	SM76	ql w
pAer	1S0 1	2- SC	22SC	2- 10	2207	2M0h	ql w
pAer	1SC 1	2- 74	2S10	2S2h	2142	CM07	ql w
poOAum	2- 2	1S0- 4-	1SC- 7-	1S7167	1S72C7	SM0h	ql w
p&ona&Aum	76 1	2S1674	2S14h6	2SS007	2S1- S6	SM4-	ql w
p&ona&Aum	77 1	171- - 47	17707h1	176h64C	17hh616	2M36	ql w
pu&ur	- 4 1	2071h7	204hh6	20- S12	20h242	SM06	ql w
i erbAum	1hC 1	1S- 206C1	1SS007S0	1S12C647	1S107- 72	1M-S	ql w
i erbAum	1hC 2	- hh2474	- Ch2SSS	41- 02hC	- 77Sh71	0M0S	ql w
i GsPAum	2S- 1	2CSC	- S0h	- S0h	- S2S	- M1C	ql w
i GsPAum	2Sh 1	67S2	0- h2	607h	6C7S	4M62	ql w
i An	117 1	6S26	646S	6- S2	626-	- M1S	ql w
i A&snAum	40 1	4Ch0C	4C012	4C- h-	4Ch47	SM10	ql w
RrsnAum	2- 7 1	0SSh4	02S02	01C77	01- 01	1M0S	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	RnA&w
VsnsOAum	h1 2	1S4216	1S24S4	1S262h	1S- S72	SM06	ql w
Y&erbAum	102 1	17h7S	17CS6	107- 7	17441	2M00	ql w
Y&erbAum	102 2	7S0h	7442	760h	7- C0	- M4S	ql w
Y&erbAum	106 1	1272-	1- 6S0	1- 7h7	1- 42C	4M52	ql w
Y&erbAum	106 2	1h601	10127	10612	167S4	6M31	ql w
Y&&Aum	7C 1	1- CSh22C	1- 64SS6C	1- 6641C0	1- 0- 64C7	1M30	ql w
Y&&Aum	7C 2	11474S-	1- 16771	142hS06	12C6070	1SM0h	ql w
ZAnq	66 2	60674	60S77	66S- 6	66C- 6	1M2h	ql w
ZAqonAum	CS 1	24402	244S6	24h02	2447-	SM4	ql w
ZAqonAum	C1 1	h- 06	hh26	h017	hh4S	- M3C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wo D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&JaJ	9 y SU6h	&8mTmCJJwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
q8mb cCmb	20 2	1- h: 141	1- 01464	1- 7S612	1- 724S6	SM16	dDl
qCTb nCE	121 1	4426	44: 1	- hS1	42: h	0M2h	dDl
qpl r Ccl	0: 2	4S4:	410S	- h67	4S61	2M1	dDl
Bwpcmb	1- : 1	: 16: S:	: 2- 12h	: 12- 7-	: 10- - h	1M8:	dDl
Bwpcmb	1- 0 1	hS67S-	h1- - hS	h24242	h14712	SM16	dDl
Br pE8&mb	h 1	- h64	4S66	- h66	- hhh	1M46	dDl
Bdl b mTG	2Sh 1	: h210S4	606141h	6h4h417	6: 44171	7M6	dDl
Bdl b mTG	2Sh 2	- 2h0- S1	- 200106	- 2024S6	- 2722h4	SM4S	dDl
Bpmb cCr	71 1	h22S	h6- 0	h: 70	h471	2M4S	dDl
5 wob cmb	1S7 1	210	21-	177	2S6	0M60	dDl
5 wob cmb	1S6 1	41- 4	4206	42: 1	422S	1M0h	dDl
5 wob cmb	111 1	2424	2401	2461	24: 2	SM1h	dDl
5 w8lcmb	4- 1	020- S:	022- 4:	01h264	022h01	SM16	dDl
5 w8lcmb	44 1	1227424S	1222: - 6-	11h6: 0: -	121: 74: 2	1Mh	dDl
5 wpenC	12 1	: 4h202h	: 67427-	: 6- 1662	: 6S27h1	1M00	dDl
5 wpenC	12 2	67SSS	6706h	60277	67S1h	1M8h	dDl
5 G8hpcCr	- : 1	17h1: 402	210S6416	2- 1h0h2-	2120- 201	1SM22	dDl
5 G8hpcCr	- : 2	167h00	101hh6	101: 4S	10S7- 0	SM1:	dDl
5 Gpmb cmb	: 2 2	67767	6742-	66722	67S- 7	1M7	dDl
5 new8T	: h 2	611- S	62- - h	62S21	617- S	1M81	dDl
5 nDDr p	6- 2	112: 1:	112h67	11- : 2-	11- SS2	SM4:	dDl
&El Dpnl cmb	1: 6 1	1SSh- S	1SS14h	h6S76	hhS: :	2M0-	dDl
&El Dpnl cmb	1: 6 2	41S0S	4S002	- h70h	4S: 04	1M-	dDl
Fpecmb	164 1	7- 0- S	741- -	74410	74Sh4	SM41	dDl
Fpecmb	164 2	- - : 66	- - : S6	- 2hS4	- - - 2:	1M1S	dDl
Hwon8Ccmb	16S 1	hS- : 6	7h460	7h2: 6	7h6h-	SM0:	dDl
Hwon8Ccmb	16S 2	41424	4S022	4S7- -	4Shh-	SM12	dDl
y n8b cmb	16: 1	7007711	h6664- 4	hh- 1027	h4: 7hh1	6M7	dDl
y n8b cmb	16: 2	4- 402S1	42- : 02:	41h4h- h	42: h277	1M7:	dDl
tCocmb	11: 1	6247h74	0S- 1h1-	6h76: hS	60: : 72h	6M1	dDl
tCocmb	11: 2	h62Shh	h61- : 4	h47676	h: 0- 7S	SM0h	dDl
tpnC	: 4 2	44: : 602	4466h: 7	441477:	444: 7- 7	SM02	dDl
tpnC	: 6 2	7S626624	7S: 16020	0hh7h61S	7S- 006: 4	SM42	dDl
tpnC	: 0 2	2S0774h	2Sh- S: :	2S62: S:	2S071- 0	SM04	dDl
KpEDTnC	7- 1	- : h	- 7:	- 0h	- 04	- M60	dDl
Lr wo	2S6 1	4S2: 47	4S: 70-	- hh421	4S2614	SM7S	dDl

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wb D8 Jt&JaJ	9 y SU6h	&c8mTcnCJJwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
Lr wo	2S0 1	- - : 00h	- - 40S7	- 27S61	- - 274h	1M26	dDl
Lr wo	2S7 1	1: 701: 1	1: 7121-	1: : 22: 2	1: 0- : - h	1M1h	dDl
LcTGmb	6 1	2- 024S1	26: 2424	2617Sh7	2: 40641	: M1h	dDl
9 wgCr l cmb	24 2	1011: 62	10: 07- h	16h6S11	10217S4	1M70	dDl
9 wCgwCr l r	: : 2	7h0177	hS7: h7	7h21h2	7hh- 26	SM14	dDl
9 n8Eeor Cmb	h4 1	227- 6	22120	21- : S	221S4	- M6	dDl
9 n8Eeor Cmb	h: 1	7h70	76- 6	76h:	7002	2M14	dDl
9 n8Eeor Cmb	h6 1	127h7	1260-	12271	12610	2M47	dDl
9 n8Eeor Cmb	h0 1	: 006	: h7:	: 04-	: 7- :	2M2:	dDl
9 n8Eeor Cmb	h7 1	1472:	1: : - 4	14: S7	14h: 6	- M1	dDl
u r noEb cmb	1: S 1	1: h602	1: h- S7	1: 7772	1: h277	SM2:	dDl
u r noEb cmb	1: S 2	40hhh	40: : 1	40- : S	406- -	SM0S	dDl
u cdkr 8	6S 2	44744	44: - 6	44h41	44004	SM40	dDl
NGhl DGhpml	- 1 2	- h42	41: 1	4410	410S	: M01	dDl
NnTwl cmb	- h 2	: 2S: 12	: 2: 72S	: 2242-	: 22h17	SM1	dDl
. Ghocmb	1S- 1	611: - 67	0S6- 64h	6h: S7: 6	60Shh: 0	0M02	dDl
. Ghocmb	1S- 2	- 2- 0S04	- - 27h71	- 22616h	- 264S0:	1M0-	dDl
l dwCocmb	4: 1	4S14461	4: : - h41	40SS- - 0	4422h1-	7M10	dDl
l dwCocmb	4: 2	147h40	146- : S	1440S0	146667	1M46	dDl
l r 8 Ccmb	72 1	- 74	216	- 2S	- S0	20M0	dDl
l r 8 Ccmb	00 2	210	2S-	210	212	- M0-	dDl
l r 8 Ccmb	07 2	117	1- 1	1: S	1- -	12M1S	dDl
l c&dnC	27 1	12: - - - S0	126h221:	12176: 1-	1240S607	2M80	dDl
l c&vr p	1S0 1	2: Sh	2: 42	24: S	2: SS	1M76	dDl
l c&vr p	1Sh 1	220:	2260	2210	22: -	1M4S	dDl
l nocmb	2- 2	07Sh-	07: h:	00hSS	071h6	SM46	dDl
l TpnCTcmb	76 1	271- 21	27- - 00	202- 14	20hSS4	2M11	dDl
l TpnCTcmb	77 1	26S7: - 1	2: - 7666	2: : 0746	2: 67- 47	1M41	dDl
l m8mp	- 4 1	2h0- 72	2h0S42	2h0677	2h0- 01	SM11	dDl
Ar pecmb	1: h 1	77- SS22	hh1S07h	1SSSS- Sh	h: 7S- 0-	6M7S	dDl
Ar pecmb	1: h 2	410S2- :	411: 702	42: 7S1S	4171- 02	1M02	dDl
AGw8cmb	2S- 1	444-	4: : h	46- 4	4: 4:	2M1-	dDl
AGw8cmb	2S: 1	1S0: :	1Shh0	1S702	1S704	1M11	dDl
AcC	117 1	1777h	17Sh6	1h40-	1771h	- M60	dDl
AcTwCcmb	40 1	00Shh	0002S	06hhh	00202	SM11	dDl
RpwCcmb	2- 7 1	0: 1: 6	04h1-	0- : - S	04: - -	1M17	dDl

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Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TLu wb r Ja	N7
5 8r CTL wb D8 Jt&Jal	9 y SU6h	&8mTcnCJUwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwocmb	: 1 2	112- h0	11SS7S	111110	1111h7	1M84	dDl
YTTr pecmb	102 1	267: -	2601h	2601h	26064	SM2h	dDl
YTTr pecmb	102 2	12460	12h12	1- - 17	127hh	- MS	dDl
YTTr pecmb	106 1	1hS2-	10: - 0	17: S:	17- : :	4M1	dDl
YTTr pecmb	106 2	1h: - 1	2SS4h	1h- 0S	1h6: S	1M1	dDl
YTTpcmb	7h 1	124S0S: -	1- 04116h	14Sh4: 10	1- 414246	6M-	dDl
YTTpcmb	7h 2	14: - 4- :	14: 1: 67	146S11-	14: : S- h	SM1	dDl
ZcCd	66 2	0- 044	0- : - S	0- - h6	0- : : 6	SM24	dDl
ZqpdnCcmb	hS 1	40114	46244	44- h6	4: h17	- M2	dDl
ZqpdnCcmb	h1 1	11S- S	1SS70	1S6h6	1S6S4	4M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wo D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tu wo r :J	N7
5 8r CTl wo D8 :t&:J	9 y SU0S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wo r :J	111q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	7S46a7	7S11SS	0a041a	7S1S0-	SM4h	dDl
qCTb nCE	121 1	a6- 0	1S112	aa62	aaS4	2M4h	dDl
qpl r Ccl	0h 2	11S61	1Saha	1Sa7-	11SS1	SM4a	dDl
Bwpcmb	1- h 1	ha2- 42	ha7206	6SS60-	ha0Sa0	SM02	dDl
Bwpcmb	1- 0 1	1S14670	1Sh21h0	1S722a2	1S4a012	- M4-	dDl
Br pE8mb	a 1	h0- 2	h774	h6h0	h0h7	2M81	dDl
Bdl b mTG	2Sa 1	604a6- -	0Sa0a17	6a- h0h0	6a2006a	2M12	dDl
Bdl b mTG	2Sa 2	- 21h42S	- - 706h7	- - aS00-	- - - 1274	- M81	dDl
Bpmb cCr	71 1	6067	6620	027h	67a4	hM8-	dDl
5 wob cmb	1S7 1	42h	h21	4SS	44a	14M22	dDl
5 wob cmb	1S6 1	hSh1	47a-	4a06	4a0-	1M4a	dDl
5 wob cmb	111 1	hShS	4a60	4717	4a4h	2M0	dDl
5 w8lcmb	4- 1	0- S76h	0- hS72	020a20	0- 12a1	SM4a	dDl
5 w8lcmb	44 1	12h4- h- 7	12612177	12- - a- - 0	124a7- hh	1M14	dDl
5 wpenC	12 1	h6S- 0- 0	h0a40- S	h004117	h0241ah	1M7-	dDl
5 wpenC	12 2	67644	0S106	01- S6	0SS42	1M41	dDl
5 G8npCr	- h 1	1a41S276	226a42- -	24hh0SSh	2222ShS7	11M0-	dDl
5 G8npCr	- h 2	17147h	172- 01	17h76h	17- 24S	1M26	dDl
5 Gpmb cmb	h2 2	4- 000	4- SS7	42710	4- 2S1	1M17	dDl
5 new8T	ha 2	4h000	44744	44h7-	4hS67	1Ma	dDl
5 nDDr p	6- 2	141a06	1- 7620	1- 7044	1- a072	1M6	dDl
&El Dpnl cmb	1h6 1	14h2- 0	14hha7	14hh62	14h466	SM14	dDl
&El Dpnl cmb	1h6 2	6Shh-	h0041	h0hSS	h7ha7	2M4S	dDl
Fpecmb	164 1	1S- 7aa	1S27h6	1S4a- S	1S- 7ah	1M8S	dDl
Fpecmb	164 2	41076	4Saa-	41421	414SS	SM46	dDl
Hwon8Ccmb	16S 1	121S2-	12277a	11a620	12117S	1Mh	dDl
Hwon8Ccmb	16S 2	h0762	h6S01	hh00-	h6h6a	2M8S	dDl
y n8b cmb	16h 1	aa7117S	1S2a4h1h	a70142-	1SS4aS4S	2M17	dDl
y n8b cmb	16h 2	417h26S	4- - 7660	4- a7626	4- S0h17	2Mh	dDl
tCocmb	11h 1	01S420h	0- S07h2	027404S	02- 227a	1M14	dDl
tCocmb	11h 2	a44S7a	aa1- - S	a0h4- 2	a0S27-	2M17	dDl
tpnC	h4 2	4- 6- S- 6	421- - 10	41- h702	42- 04S7	2M0-	dDl
tpnC	h6 2	0701- h17	0646a046	00S401h2	0041S1- a	1M1	dDl
tpnC	h0 2	2S1h- SS	1a6- aS2	1a66h00	1a71a26	1M46	dDl
KpEDTnC	7- 1	- 60	41S	- hS	- 06	7M21	dDl
Lr wo	2S6 1	1- 024- 6	14SS467	1416140	1- a6- hS	1Ma	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU0S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	1162442	1101a14	116a10-	116074-	SM12	dDl
Lr wo	2S7 1	h67- 17a	h710a1a	h0aa1a4	h066060	1M20	dDl
LdTGmb	6 1	26401a0	26a1S7S	266- 46-	2660240	SM7-	dDl
9 wgCr l mb	24 2	211266h	2117h06	2Sh727S	2Sa6hS0	1M1a	dDl
9 wCgwCr l r	hh 2	1602400	1642626	16- 2- 76	164a16-	1M26	dDl
9 n8Eeor Cmb	a4 1	2ah72	276hh	2aS7a	2a1Sa	1M1a	dDl
9 n8Eeor Cmb	ah 1	2S466	21- 0h	2SahS	2Sa- S	2M10	dDl
9 n8Eeor Cmb	a6 1	2h424	2h6h7	2h64a	2hh00	SM12	dDl
9 n8Eeor Cmb	a0 1	1- S1h	1- - h0	12771	1- S74	1M10	dDl
9 n8Eeor Cmb	a7 1	- - 124	- - 416	- - a10	- - 476	1M2S	dDl
u r noEb mb	1hS 1	2hS24S	24aa6S	2h- 277	2h116-	SM04	dDl
u r noEb mb	1hS 2	0670h	04h7-	0- 242	04aSS	2M4h	dDl
u cdkr 8	6S 2	2- - Sa	226S7	22SS0	22641	2M77	dDl
NGhl DGhpml	- 1 2	4410	4hha	4hha	4h12	1M71	dDl
NnTwl mb	- a 2	61- a7S	611a- h	61Sa11	61220h	SM26	dDl
. Ghomb	1S- 1	6a61720	012h2- 1	0161hhS	0S7276a	1M1S	dDl
. Ghomb	1S- 2	- 2424- S	- - a1aS4	- - 6h- 6a	- - - - 2- 4	2Ma	dDl
l dwComb	4h 1	4061h0S	47ah1h-	4074hha	471- 061	1M47	dDl
l dwComb	4h 2	144h60	1h217a	1h24- 4	14a0- S	2M4a	dDl
l r 8 Cmb	72 1	2- S	1aa	226	217	0M72	dDl
l r 8 Cmb	00 2	- SS	- S-	27-	2a6	- M4-	dDl
l r 8 Cmb	07 2	107	10-	2SS	174	0M72	dDl
l 8dnC	27 1	aha6S2-	a02S- 0a	a46- 67a	aha- - 64	1M4	dDl
l 8vr p	1S0 1	1- aS0	1- 10-	1- h04	1- hh1	2M01	dDl
l 8vr p	1Sa 1	12647	1- - h0	1- 1h0	1- Sh4	2M7S	dDl
l nomb	2- 2	01h- 4	02h7S	02hSh	022S6	SM71	dDl
l TpnCTmb	76 1	20hh6a	27h2- 2	27S7a6	27Sh66	1M0-	dDl
l TpnCTmb	77 1	2h4ha- 1	2614S6a	24a14- -	2hhS407	2M41	dDl
l m8mp	- 4 1	- 44h0a	- h2020	- hSS7a	- 4a1- 2	1M1a	dDl
Ar pemb	1ha 1	1SS641- h	1S4404- 7	1S1a- 166	1S2- 4a1-	1M41	dDl
Ar pemb	1ha 2	4SaSh61	42hS14h	42Sh6hh	417212S	1M40	dDl
AGw8mb	2S- 1	4hh1	4067	4667	4662	2M-	dDl
AGw8mb	2Sh 1	1Sa6-	112a0	1S6- S	1Sa6-	- M84	dDl
AdC	117 1	10- 0S	1002a	17162	100h4	2M24	dDl
AdTwCmb	40 1	4SS6hS	- aa777	- a0677	- aa4Sa	SM17	dDl
RpwCmb	2- 7 1	142171	14- ah-	14hhS-	14- 70a	1M16	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU0S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	h1 2	067- h	0664S	0h4a1	06- 22	SM4h	dDI
YTTr peomb	102 1	- S167	- S200	2a474	2aa06	1M4-	dDI
YTTr peomb	102 2	14664	142- S	1- ah2	14272	2M11	dDI
YTTr peomb	106 1	2S1- 2	2S2a1	2S7Sa	2S411	1M0-	dDI
YTTr peomb	106 2	2S26S	2S607	21- 74	2S004	2M04	dDI
YTTpomb	7a 1	142S02a4	14h- 1h40	14- 2- S6h	14- h- a6a	1M14	dDI
YTTpomb	7a 2	146h007	1h- 1h11	1h11724	1hS- S- 7	2M24	dDI
ZdCd	66 2	17h24a	17S7h1	17- SaS	17- S6-	1M2S	dDI
ZqpdnComb	aS 1	46S00	47SSS	474S2	404a-	2M62	dDI
ZqpdnComb	a1 1	11S01	11177	1Sa1-	11Sh7	1M2h	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psmI Re:D :J	5 9 SF01	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112cC. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	yh77y7	y40- 01	y4Sy6-	y4yS00	SUy6	ql w
cn&AmonE	121 1	12Sy0	1- 1yS	12y2-	120- 0	4U40	ql w
crwenAq	0h 2	1- Sh6	120yh	12hhh	127S2	1Uy6	ql w
BsrAm	1- h 1	6yS122	6y6hh0	6yyS0h	6yh2h1	SU66	ql w
BsrAm	1- 0 1	11y- 0h4	12- hy71	1222hh4	12104- S	1U00	ql w
BerEFAm	y 1	6- - 4	6- 7y	6- 04	6- 66	SU4h	ql w
BAmu&G	2Sy 1	0Sh2777	6y6- - h4	0S- S117	0S1h4h-	SU66	ql w
BAmu&G	2Sy 2	- - 4h16S	- 2- S24-	- 2y220h	- 27y226	1U0h	ql w
BromAne	71 1	0hy4	0676	7227	07- 6	4U0	ql w
RsOmAm	1S7 1	66-	h60	0SS	64-	1SU6y	ql w
RsOmAm	1S6 1	h1Sy	hS74	h126	h1S0	SU41	ql w
RsOmAm	111 1	hyyy	627S	6S11	6Sy0	2U61	ql w
RsRqAm	4- 1	7SSS1S	7S6S77	7SSS42	7S2S40	SU44	ql w
RsRqAm	44 1	1- hy2hy4	1- h16441	1- 40S467	1- h26hS1	SU46	ql w
Rsrbon	12 1	h04027-	h76- 1- y	h0hy- 76	h07yy- 6	1U1S	ql w
Rsrbon	12 2	016y2	0S021	6yhh0	0S6h6	1Uh1	ql w
RGRorAne	- h 1	2Sy6S47y	24S022Sy	262776y0	2- 00- 0y7	11U26	ql w
RGRorAne	- h 2	17yy42	1yh6Sy	1y0h74	1y4- 0y	2US4	ql w
RGromAm	h2 2	h- 4h6	h- 10h	h2704	h- 167	SUhh	ql w
RobsR&	hy 2	hy667	6S200	h777h	hy61S	1U10	ql w
RoI I er	6- 2	2Sy721	2S7- y-	2Sy74-	2Sy- h2	SU4S	ql w
t EwI rowAm	1h6 1	16S701	160206	16- 7h7	164SS2	1Uyh	ql w
t EwI rowAm	1h6 2	6hS- 7	604yS	6h724	66110	1U7y	ql w
. rbAm	164 1	1212hS	12S174	11y7yS	12S441	SUhy	ql w
. rbAm	164 2	40414	406- 2	4011-	40- 76	SUhh	ql w
HsOoRAm	16S 1	1- h772	1- y- 10	1- y42h	1- 72S7	1U46	ql w
HsOoRAm	16S 2	6- h74	6- y22	64472	6- yy6	SU01	ql w
9 oRmAm	16h 1	1S1Sy64S	yy267y7	yy4S0- 6	yyy242h	1US2	ql w
9 oRmAm	16h 2	4- S7- hh	42- 60S4	4- 1S664	427h241	SUy7	ql w
DrOAm	11h 1	02S- 2y7	0S- y26S	0- Shh47	01720S2	1U70	ql w
DrOAm	11h 2	y04h61	yhS1S2	y4y7yS	yh717h	1U47	ql w
Don	h4 2	4yy0y- S	47776- S	4776110	4y24226	1U-S	ql w
Don	h6 2	7yhyh621	770- - 601	7y46S6y6	7y26- - - S	SUh2	ql w
Don	h0 2	2- 4S- 6y	2- S706y	2- - 62hh	2- 27464	SU04	ql w
KrEI &on	7- 1	411	- 00	- 7y	- y2	4U-7	ql w
LesO	2S6 1	14- h1S4	146h12h	14612h0	14h- 72y	1U12	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SF01	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
LesO	2S0 1	12S24hS	122yh07	1221602	1210ySS	1U1h	ql w
LesO	2S7 1	hy067- 1	612117h	6Sy- - h2	6S6- 07y	1U26	ql w
LA&GAum	6 1	20S462-	261yh10	26S77S2	2644- 14	1Uyy	ql w
5 sgnewAum	24 2	2227S4y	2204S2h	2242722	22472y7	1US4	ql w
5 sngsnewe	hh 2	211h77S	2S74662	21202S7	21Sy2hS	1US4	ql w
5 oPEbOenum	y4 1	4- 611	44- y6	44y04	44- 20	1Uh4	ql w
5 oPEbOenum	yh 1	274Sh	274hh	2y272	27014	1U02	ql w
5 oPEbOenum	y6 1	- h67S	- hS- 0	- h722	- hh1-	1U17	ql w
5 oPEbOenum	y0 1	10h- 0	17212	10y12	10770	1U7y	ql w
5 oPEbOenum	y7 1	46261	407SS	4h- 7-	46471	2U6-	ql w
NeoOEmAum	1hS 1	20S710	200y61	2724- 1	200S0S	2U11	ql w
NeoOEmAum	1hS 2	71y06	7- 244	72211	72400	SU72	ql w
NAqkeP	6S 2	- 1S00	- 1- - h	- 1- S7	- 124S	SU4h	ql w
8 GowI Goruw	- 1 2	h7S1	h71S	h- hy	h6h0	4Uhh	ql w
8 o&swwAum	- y 2	614607	6S7- 6h	6111h1	611- y7	SUh2	ql w
CGoOAum	1S- 1	012- y- S	6yyy122	0Sh6- h0	0Shy7S-	SU77	ql w
CGoOAum	1S- 2	- - - 2S0y	- 22ySSh	- 2y167-	- 2742h6	1Uh7	ql w
pqsnOAum	4h 1	47h0064	4011h2-	40S764h	40hy- 11	1U0y	ql w
pqsnOAum	4h 2	14y2h0	14hy6-	140h6h	140hyh	1U12	ql w
pe&enAum	72 1	24y	- Sy	- Sy	27y	12USS	ql w
pe&enAum	00 2	20S	- S-	- SS	2y1	6U1	ql w
pe&enAum	07 2	1y4	1y1	1y2	1y2	SU0y	ql w
pAAqon	27 1	y46y6SS	1SSyhyy-	yh7y0h2	y017447	- U42	ql w
pAPer	1S0 1	14S24	1424y	141- -	141- h	SU7S	ql w
pAPer	1Sy 1	1- 16h	14- y1	1- - S0	1- 621	4Uy2	ql w
poOAum	2- 2	yh42S	yh2- h	y46y7	yh117	SUy	ql w
p&on&Aum	76 1	- 6- 026	- h7yS2	- h- 67y	- h7002	1U4S	ql w
p&on&Aum	77 1	- 1y61h0	- 27Syy-	- 260- - 6	- 247162	1U4S	ql w
pu&Pur	- 4 1	- h722S	- 0SS20	- 01762	- 660S-	2US2	ql w
i erbAum	1hy 1	1S- 02S4-	1SS26h2y	1S1y- 166	1S1y0246	1U6y	ql w
i erbAum	1hy 2	4S6y447	4S7- 017	421S202	4121146	1U77	ql w
i GsPAum	2S- 1	h41S	h467	h226	h- 67	2Uh	ql w
i GsPAum	2Sh 1	12047	1244S	1- 4h0	12772	4USh	ql w
i A	117 1	- 1h0y	- - S4y	- - h60	- 20- 2	- U1h	ql w
i A&snAum	40 1	- 1472y	- 1626S	- 1h- 47	- 1h40y	SU2-	ql w
MrsnAum	2- 7 1	167140	10S0- 0	167yy2	16y2y2	SU07	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SF01	t Ra&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J- -	t s&sFAe:Nsme:J	112c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h1 2	yhS0-	y20y7	y- 42y	y- 060	1U2h	ql w
Y&erbAum	102 1	- 2yh7	- 422y	- - 700	- - 677	1Uyh	ql w
Y&erbAum	102 2	16S00	166- 7	1hy1S	162S7	2U6	ql w
Y&erbAum	106 1	22h76	2- 6hh	22062	2- SS1	2U4y	ql w
Y&erbAum	106 2	22- h-	22141	21046	22S7S	1Uy	ql w
Y&&Aum	7y 1	14h- 1- SS	1442- 76y	146467S7	14h- - yy2	SU00	ql w
Y&&Aum	7y 2	1h1426y	147- 220	140y- yS	14y22yh	1U27	ql w
ZAnq	66 2	177761	176616	172h7y	176S22	1U01	ql w
ZAqonAum	yS 1	0hy4y	0h0yy	0612h	0hyh0	SU21	ql w
ZAqonAum	y1 1	16yS2	10S44	100yh	10240	2U07	ql w

Reviewed By:Bin
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Inst Id :P8

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Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0hh062	0h6ahh	0420hS	0h1722	1N8h	dDl
qCTb nCE	121 1	220S-	2- 021	24S14	2- 40a	2M4-	dDl
qpl r Ccl	0h 2	14006	14047	140Sa	14044	SM2-	dDl
Bwpcmb	1- h 1	670aS2	6a2S61	60S4h6	67- 40-	1M07	dDl
Bwpcmb	1- 0 1	121h64S	121aS76	11716- a	12Sh4hh	1M02	dDl
Br pE8mb	a 1	- a64	4S- 4	- 724	- a4S	2M01	dDl
Bdl b mTG	2Sa 1	026- 6- 0	01712- 0	02- - a67	0226271	SM17	dDl
Bdl b mTG	2Sa 2	- 1S4ah0	- - a- aS0	- h01hS6	- - h60aS	0N81	dDl
Bpmb cCr	71 1	0220	0644	027h	0- 76	- N86	dDl
5 wob cmb	1S7 1	16S4	1aSS	1060	10h0	7M4-	dDl
5 wob cmb	1S6 1	6- 20	6- 00	62- h	6- 1-	1M14	dDl
5 wob cmb	111 1	1h46h	1h610	1h2hS	1h444	1M1a	dDl
5 w8lcmb	4- 1	h17a- 1	h21- 2a	h1616h	h177S7	SM1S	dDl
5 w8lcmb	44 1	77a6h16	707h1a-	771164a	77- 111a	SM06	dDl
5 wpenC	12 1	0640Sh2	07- 2S72	07h62- -	00074hh	1M40	dDl
5 wpenC	12 2	ah- 2h	ahh6a	a- 7Sa	a4aS1	1N81	dDl
5 G8hpCr	- h 1	22S0hS64	2h1ah1S7	2607h27S	2467h1h1	aM01	dDl
5 G8hpCr	- h 2	1a7624	2S40S7	2Sh4hS	2S2a20	1M7h	dDl
5 Gpmb cmb	h2 2	ha024	ha142	ha202	ha- 0a	SM11	dDl
5 new8T	ha 2	4- 272	4- - 0a	417h7	4274S	1M1a	dDl
5 nDDr p	6- 2	- a166-	- aS664	- 76006	- 7a0S1	SM06	dDl
&El Dpnl cmb	1h6 1	1124a7	11SS2S	1S7h7a	11S- 6a	1M0a	dDl
&El Dpnl cmb	1h6 2	442a6	4- 27-	4- 440	4- 606	1M2h	dDl
Fpecmb	164 1	0- 046	0hS2S	041aa	04- 22	SM70	dDl
Fpecmb	164 2	2a41-	2aS7a	2a67S	2a- a4	1N81	dDl
Hwon8Ccmb	16S 1	aSS0a	a1a42	a2a16	a1646	1M10	dDl
Hwon8Ccmb	16S 2	4211-	422a0	42SS-	421- 7	SMlh	dDl
y n8b cmb	16h 1	1S1hSh17	1S1h- 4- S	1SShh77-	1S11aa44	SM1h	dDl
y n8b cmb	16h 2	- a7S- hh	4227aSa	4626h6h	420761S	0M62	dDl
tCocmb	11h 1	02h0h14	0ha0114	0404aa4	044- 2S7	2M1	dDl
tCocmb	11h 2	7a- 021	a02aSa	1Sh1S70	a02h02	7N8a	dDl
tpnC	h4 2	- 74hh42	- 07- 74a	- 020166	- 07hh1a	1M16	dDl
tpnC	h6 2	6a2246- h	6a- 1h- S6	60aaSa- -	6774- 62h	1N80	dDl
tpnC	h0 2	1071aa-	10740ha	10- 766h	1067402	1M46	dDl
KpEDTnC	7- 1	- 4a	- S2	- 42	- - 1	0M10	dDl
Lr wo	2S6 1	1S6a24- 0	1Sh207S2	1S4a777a	1Sh0- S4-	SMla	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	770Saah	7aS746-	aS4- 041	7a41S66	1N82	dDl
Lr wo	2S7 1	422S1242	416- 402S	4210a1a-	42SShSh1	SN06	dDl
LdTGmb	6 1	26h6aa4	2044440	267a01-	26a0Sh2	1N04	dDl
9 wgCr l mb	24 2	1hh- ha1	1h24ha-	1471S62	1h1a04a	2M4S	dDl
9 wCgwCr l r	hh 2	16- 0- 40	16- - 42S	1h7h100	1617647	1N0a	dDl
9 n8Eeor Cmb	a4 1	22007	2227h	216h1	222- 7	2M4	dDl
9 n8Eeor Cmb	ah 1	1aS14	17- 2a	17h6-	176- h	1M70	dDl
9 n8Eeor Cmb	a6 1	222S1	2- 2S-	22217	22h41	2M4	dDl
9 n8Eeor Cmb	a0 1	11040	12102	12- - a	12S76	2M-	dDl
9 n8Eeor Cmb	a7 1	- S426	- S- 2h	- SSha	- S20S	SN0-	dDl
u r noEb cmb	1hS 1	1a6h26	1a6- S1	1a21h7	1a4aah	1M26	dDl
u r noEb cmb	1hS 2	h712a	h6760	h02- 2	h04Sa	1M-	dDl
u cdkr 8	6S 2	2h- a6	2hS1h	2- h- -	24647	- Ma	dDl
NGhl DGhpm	- 1 2	6hh2	01S2	67h2	67- h	4N8-	dDl
NnTwl mb	- a 2	021S1a	0S7h62	6aahha	0Sa014	1M2	dDl
. Ghocmb	1S- 1	0217S7-	0- h74hS	027S16-	027hh6h	SMa0	dDl
. Ghocmb	1S- 2	2aah027	- 2a2627	- 4a62aS	- 261h4a	0N02	dDl
l dwCocmb	4h 1	47ah602	40a1h00	4007hah	4721a47	1M-	dDl
l dwCocmb	4h 2	1- 4hSh	146- - 4	1ha727	14677a	7N0-	dDl
l r 8 Cmb	72 1	22S	262	106	22S	1aN04	dDl
l r 8 Cmb	00 2	2S-	170	1a-	1a4	4M1	dDl
l r 8 Cmb	07 2	146	124	14a	14S	aN07	dDl
l 8dnC	27 1	1S- 0- - - 4	1Sh204S7	1S41S- 02	1S4- 0S- 7	SN00	dDl
l 8vr p	1S0 1	000- 6	07- 72	7241-	0ah1S	- Ma	dDl
l 8vr p	1Sa 1	0h441	0676h	02- 72	047a6	- N86	dDl
l nocmb	2- 2	1722h0	10771a	1007- -	10a6- 6	1N2a	dDl
l TpnCTcmb	76 1	- 4aS6S	- h4- 7a	- 470S2	- hS010	SMa1	dDl
l TpnCTcmb	77 1	- 2hS4S7	- 1a04S6	- 2204- 2	- 22hS72	SM72	dDl
l m8mp	- 4 1	4276- 0	4- 2711	42a776	4- S44h	SM1S	dDl
Ar pecmb	1ha 1	1ShS4720	1S41- 160	1S40- 14a	1S46- 01h	SM44	dDl
Ar pecmb	1ha 2	- 0a22- 4	41- 1012	4haha0-	410- - S6	aN70	dDl
AGw8cmb	2S- 1	4S- 4	- 606	- aa2	- aS1	hN8-	dDl
AGw8cmb	2Sh 1	a470	a001	a60a	a646	1M1S	dDl
AdC	117 1	hSS2h	h26- h	h1112	h12h7	2M6	dDl
AdTwCmb	40 1	44a1aS	4460aa	446h- 6	440hS7	SM-	dDl
RpwCmb	2- 7 1	1S- 144	1SS04S	1S2a2h	1S220S	1M1S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 17	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU02	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	h1 2	7- - 07	727- 2	724h6	7277a	SM16	dDI
YTTr peomb	102 1	2S266	2SSa1	2S2S7	2S177	SM44	dDI
YTTr peomb	102 2	aha7	a7S4	ah0S	a6h0	1M2	dDI
YTTr peomb	106 1	1470h	14hSS	140hS	140Sa	1MS	dDI
YTTr peomb	106 2	16201	17S7h	17a1a	100ha	0M62	dDI
YTTpomb	7a 1	14- ha0a1	14- h4271	14- 0h2- 4	14- 6- 1S2	SM87	dDI
YTTpomb	7a 2	1- - 20a1	14- 2411	1hha2a6	14414aa	0M77	dDI
ZdCd	66 2	h1SS7S	hS6a04	4aa- h1	hSh467	1M8a	dDI
ZqpdnComb	aS 1	- 20a7	- 1- 76	- 11a4	- 10a2	2M06	dDI
ZqpdnComb	a1 1	011S	0- 44	01- h	01a6	1M07	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU0-	&8mTmCJJwdThpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a22a2-	&wTwJu8 Ju wb r Ja	114q . FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
q8mb cCmb	20 2	667017	667022	661- 62	666260	SM04	dDl
qCTb nCh	121 1	1: 7E0	1: 0: S	17: 02	1: E- :	2N42	dDl
qpl r Ccl	0E 2	146E-	14- 0E	141: S	144S6	1N02	dDl
Bwpcmb	1- E 1	E00: 21	E0: S2-	E0- 2S:	E06017	SN44	dDl
Bwpcmb	1- 0 1	1S2026E	1S20- 22	1S11717	1S221- E	SM10	dDl
Br ph8mb	: 1	- EEE	- 61:	- E71	- E7E	SM1:	dDl
Bdl b mTG	2S: 1	011: 2S2	01241S7	0SS4760	0S72026	SMIE	dDl
Bdl b mTG	2S: 2	- 2770S0	- 276E- :	- 26E64E	- 27S2: 0	SM1:	dDl
Bpmb cCr	71 1	667E	6- 67	6217	6424	- N01	dDl
5 wob cmb	1S7 1	16S4	1746	10S7	102S	0N8E	dDl
5 wob cmb	1S6 1	E726	6267	6S67	6SE4	- N0E	dDl
5 wob cmb	111 1	2- 27:	2- S: 0	2246S	22: 47	1M1:	dDl
5 w8lcmb	4- 1	27- S- 0	27E- 02	274610	274- 42	SM42	dDl
5 w8lcmb	44 1	471767-	4746606	ES2E211	47: 67E0	2M2:	dDl
5 wpenC	12 1	- 072E21	- : : : 407	- : 27E02	- : S- E24	2M1-	dDl
5 wpenC	12 2	4616E	40076	46247	460- -	1MIE	dDl
5 G8hpCr	- E 1	2SS0- 4S1	2- 1762- 7	24746100	220S1: - :	1SN00	dDl
5 G8hpCr	- E 2	172E: S	174ES:	176SE:	174- 76	SM14	dDl
5 Gpmb cmb	E2 2	- : 017	- : : E:	- : : 42	- : 70-	SM14	dDl
5 new8T	E: 2	- - 67S	- - 16E	- - - E2	- - - : :	SN07	dDl
5 nDDr p	6- 2	- - 1: 06	- - 41E2	- - - - 0-	- - - 160	SM-	dDl
&hl Dpnl cmb	1E6 1	04700	06: : 7	06670	06170	1NES	dDl
&hl Dpnl cmb	1E6 2	- 1260	- 11: 6	- S- 01	- S: 4E	1N01	dDl
Fpecmb	164 1	E4- S-	E- 610	E- 7E1	E- : 24	SN0E	dDl
Fpecmb	164 2	2S64:	2S71-	21S6S	2S741	SM:	dDl
Hwon8Cmb	16S 1	6- - 67	6- - S:	622EE	62: 07	SM1:	dDl
Hwon8Cmb	16S 2	- SS40	- SSS0	2: S07	2: 011	1M74	dDl
y n8b cmb	16E 1	1S- 14: 17	1S1671- 6	: : 0E744	1S1E2: 66	1N00	dDl
y n8b cmb	16E 2	414SSSE	4242EE:	42EE1: 4	4212E76	1NES	dDl
tCocmb	11E 1	0- 201S4	0- S01E:	04EE- E:	0- 6- 2S0	1N8:	dDl
tCocmb	11E 2	: 64- EE	: E4644	: ES16E	: E6- 77	SN06	dDl
tpnC	E4 2	- SE76S7	- SE2700	- S2211S	- S44E- 1	SN04	dDl
tpnC	E6 2	EE1E7612	E402S267	E40S171S	E476S2- S	SM40	dDl
tpnC	E0 2	1- S47: :	141E21:	127E4- 1	1- - E17-	EM24	dDl
KphDThC	7- 1	- S6	- E1	- 26	- 27	6M10	dDl
Lr wo	2S6 1	E1S- S01	E104: 76	ES: 21S-	E12- - 70	SM17	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU0-	&c8mTcnCJJwdTnpla	1
&wTr J JAcb r JqdCmpr o Ja	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q . FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
Lr wo	2S0 1	4261260	4- : : 4- -	4- SE2S1	4- 21: 60	1M6-	dDl
Lr wo	2S7 1	1: : 40: 06	2S4: 0EE2	2SS2S260	2S1EE26E	1M47	dDl
LcTGcmb	6 1	26: 7E01	20E67- 2	206SE1E	20- 76- :	1M20	dDl
9 wgCr l cmb	24 2	7676SS	7E0: 6:	766: E-	764ES0	SM06	dDl
9 wCgwCr l r	EE 2	142274E	1206- : -	1- 7E: 26	1- 61021	EM4:	dDl
9 n8heor Cmb	: 4 1	2- 262	22: 11	22: 07	2- SES	SM71	dDl
9 n8heor Cmb	: E 1	2S- 04	2S74:	2S172	2S467	1M67	dDl
9 n8heor Cmb	: 6 1	2- 6- 0	2E- 66	242EE	2441:	- M4:	dDl
9 n8heor Cmb	: 0 1	14S: :	1- - 72	120: S	1- 424	4M7:	dDl
9 n8heor Cmb	: 7 1	- - SS0	- 47E-	- 2: 71	- - 614	- M1:	dDl
u r nohb cmb	1ES 1	1- 0: S7	141161	1- EE07	1- 7216	2M8-	dDl
u r nohb cmb	1ES 2	41702	4S: 16	4S444	41S00	1M00	dDl
u cdkr 8	6S 2	1: 01S	1: E74	1: 400	1: E: S	SM0S	dDl
NGhl DGhpml	- 1 2	- 2S:	- 4S:	- 6- 4	- 410	6M22	dDl
NnTwl cmb	- : 2	4- S- 0:	421- - 1	4212E7	424- 2-	1M24	dDl
. Ghocmb	1S- 1	026E- E0	0- 24- 21	01600: 7	02E24: 2	1M8:	dDl
. Ghocmb	1S- 2	- 2: 67: 7	- 20EE1S	- 2267E2	- 26642S	1M1S	dDl
l dwCocmb	4E 1	406E011	47- E774	40404- 0	407- S11	SM17	dDl
l dwCocmb	4E 2	140E42	14000E	1466S0	140- S7	SM42	dDl
l r 8 Ccmb	72 1	1E0	122	1E1	144	12M7	dDl
l r 8 Ccmb	00 2	16-	14S	1- -	146	1SM72	dDl
l r 8 Ccmb	07 2	11S	1S1	: S	1SS	: M7	dDl
l c8dnC	27 1	76- - - 42	77: : E0:	700EE- -	706: 47E	1M42	dDl
l c8vr p	1S0 1	- 76- S	- : 742	4S644	- : 0SE	2M4E	dDl
l c8vr p	1S: 1	- 061S	- 7S2S	- 6: S:	- 0E1-	1M4S	dDl
l nocmb	2- 2	1: 17S7	1: S72-	1: 1SS6	1: 121-	SM20	dDl
l TpnCTcmb	76 1	- 147- E	- 1E2- E	- 1- 11S	- 14- : -	SM16	dDl
l TpnCTcmb	77 1	2: 2S644	2: : 6: - 4	2771174	2: - 2: 21	2M81	dDl
l m8mp	- 4 1	- 4- E02	- - 7007	- 4- SE1	- 417SS	SM00	dDl
Ar pecmb	1E: 1	1S- 62E24	1S2: 21E2	1S267- 2E	1S- S0660	SM47	dDl
Ar pecmb	1E: 2	4116: 4:	41- SS0S	4S: S2- -	4112410	SM4:	dDl
AGw8cmb	2S- 1	2: 74	- SES	- 210	- S74	- M1S	dDl
AGw8cmb	2SE 1	0461	0220	6: 00	0222	- M1E	dDl
AcC	117 1	- 20: 7	- 441:	- 2464	- - 220	- M1E	dDl
AcTwCcmb	40 1	- 47426	- 612: 1	- E47- 2	- E47ES	1M71	dDl
RpwCcmb	2- 7 1	7: SE4	7: 60E	: S1- 6	7: 622	SM01	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wb D8 Jt&JaJ	9 y SU0-	&8mTmCJJwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a22a2-	&wTwJu8 Ju wb r Ja	114q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwocmb	E1 2	74700	7EEES	747S-	7ES06	SM47	dDl
YTTr pecmb	102 1	1E: : -	16- S2	16- 6:	16221	1M4-	dDl
YTTr pecmb	102 2	7SS-	0ES7	066-	002E	- M40	dDl
YTTr pecmb	106 1	111: 0	11622	11S22	1127S	2M04	dDl
YTTr pecmb	106 2	16220	16S: -	16- 44	16221	SM00	dDl
YTTpcmb	7: 1	14S6E: 16	1426072S	1- 7S6: 04	14S46: S-	1M64	dDl
YTTpcmb	7: 2	1- : 6- S2	14270EE	1- 2744:	1- 74ES2	- M0S	dDl
ZdCd	66 2	621E24	621S- 1	62260:	62104E	SM14	dDl
ZqpdnCcmb	: S 1	- S726	- S20E	- 17E4	- S: 7E	2ME:	dDl
ZqpdnCcmb	: 1 1	0SS2	6620	016S	6: - S	- MIE	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.uwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :uwb r :a	12S3 3 - Fo

NwpwbrTrp	Rwl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl Rrw.	3 Nl 5 l &	M. dT
q8mb c mb	20 2	1917S6y	19S047S	1J720J9	1JJ442J	2F7J	dDl
q. Tb C. h	121 1	2047467	266117J	26y6412	26J0SS4	1FJ2	dDl
qpl r . cl	0y 2	62621	627S1	6122y	62S49	1F1J	dDl
Bwpmb	17y 1	7SS04J6	2JJ112J	292yS02	2970J9y	2F1J	dDl
Bwpmb	170 1	y12yJ60	yS22yJy	y1S1JJ4	ySJ744y	1FS6	dDl
Br ph8mb	9 1	62Sy04	6124J0	6S4J24	61262J	1F29	dDl
Bdb mE	2S9 1	6742Jy1	6S07042	y946460	6121S2S	7F71	dDl
Bdb mE	2S9 2	204414S	2J79169	20SJ1SJ	2067JS6	2F4y	dDl
BpCb c r	J1 1	4192	42S1	441J	420S	2F99	dDl
3 wob mb	1SJ 1	y742J	y191S	y199J	y244y	1F67	dDl
3 wob mb	1S6 1	04447	07701	07S61	0762y	SF9J	dDl
3 wob mb	111 1	621407	61J70J	612Jy9	610y0S	SF01	dDl
3 w8lmb	47 1	7092JJ1	7JS2Sy0	70776S0	70061J1	SF9J	dDl
3 w8lmb	44 1	6S940960	61S12246	y9SyS016	6S776906	1FJy	dDl
3 wpeC.	12 1	260S971	20y01y4	2042JS6	202767S	1F0S	dDl
3 wpeC.	12 2	766y4	7y67y	7y7S1	7yJ64	1F90	dDl
3 E8Cpc r	7y 1	111S02S	1S42690	1S72969	1S62129	7F99	dDl
3 E8Cpc r	7y 2	6994	01S2	6J47	69JS	1FJ6	dDl
3 EpCb mb	y2 2	66S012	6yJ940	6y1S9S	6y6916	SF0J	dDl
3 Cew8T	y9 2	11J070J	110429S	11606S9	1106426	SFJy	dDl
3 CDDr p	67 2	9J16121	90y7S99	9644yJ9	9070976	SFJ9	dDl
&hl DpCl mb	1y6 1	042	0J7	60y	077	0F4y	dDl
&hl DpCl mb	1y6 2	740	70S	77S	749	yF06	dDl
Gpemb	164 1	1yJ	160	1yJ	161	2F9J	dDl
Gpemb	164 2	yS	y0	00	61	22F01	dDl
HwoC8c mb	16S 1	0SJ	00y	0J7	0y6	yF44	dDl
HwoC8c mb	16S 2	ySS	4J7	440	400	yF02	dDl
KC8b mb	16y 1	9699S46	9262SJ1	91J1620	97JS91J	2F90	dDl
KC8b mb	16y 2	700S29y	7009S69	707J700	7062yJS	SFy0	dDl
t. omb	11y 1	660S6Sy	67J7S40	6790y20	64J7020	2FyS	dDl
t. omb	11y 2	J2914y	J11242	J16499	J1J962	1F12	dDl
tpC.	y4 2	000JJS6	0911y2y	06y0J6J	00J2077	1F67	dDl
tpC.	y6 2	144S64192	142y221y9	17976y160	1419J7J79	1F69	dDl
tpC.	y0 2	76J121y	7611J22	7646266	7646474	SF9y	dDl
gphDTC.	J7 1	210	2yS	294	2y4	1yFSJ	dDl
Lr wo	2S6 1	120079y4	124SS79S	122S014S	1246S494	2F71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r Tuwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

Nwpwb r Tr p	R wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl R r w.	3 Nl 5 l &	M. dT
Lr wo	2S0 1	1S9y0646	1S0S617S	1S70yyyS	1S60900y	2F07	dDl
Lr wo	2SJ 1	yS0y9620	4926SJJ9	4J4y7y41	494917y2	2F76	dDl
LdEcmb	6 1	27212J0	229762J	226Sy44	2291J2S	1F77	dDl
R wk. r l cmb	24 2	26622y21	26216227	267J6S7S	264SJ2yJ	SF00	dDl
R w. kw. r l r	yy 2	76S1747	76S4S6S	7y200Sy	7y000S7	1F21	dDl
R C8heor . mb	94 1	90649yS	90Jy20J	949271J	96JSJ49	1F69	dDl
R C8heor . mb	9y 1	14406296	14772y9S	17020049	1410JJ0J	2FJS	dDl
R C8heor . mb	96 1	1yy66467	1y9y77SJ	14JSSJS0	1y44S197	7FJS	dDl
R C8heor . mb	90 1	JJ116y9	J9901yS	J411J2S	J04S21S	7F42	dDl
R C8heor . mb	9J 1	220J6y2y	2266J219	22127JJS	22y262SJ	1Fy0	dDl
u r Cohb cmb	1yS 1	240	2SS	207	24S	1yF46	dDl
u r Cohb cmb	1yS 2	77	20	6S	4S	44FS9	dDl
u cdvr 8	6S 2	71JSyy	71J606	7149J9	71024S	SF62	dDl
NECl DECpml	71 2	19S21	1J996	1J409	1JJ72	1F67	dDl
NCTWl l cmb	79 2	Jy7S77y	J41y176	J261yS9	J4S2726	1F61	dDl
5 ECocmb	1S7 1	676S1S6	619S9SS	6S1y412	61JJJS6	2F0J	dDl
5 ECocmb	1S7 2	202SyJ4	26y6S6J	262S1J0	266y617	1F91	dDl
l dw. ocmb	4y 1	47S49S9	41y1299	4Sy0224	4101144	7FSS	dDl
l dw. ocmb	4y 2	120S9S	124666	12426y	12y74S	1F22	dDl
l r 8 . cmb	J2 1	46204	4y9JS	4yS4y	4y066	1F4S	dDl
l r 8 . cmb	00 2	140S	179S	176S	14S0	4FS4	dDl
l r 8 . cmb	0J 2	44SJ	4770	42J9	474y	1F7J	dDl
l 8dC.	2J 1	2J744491	209y0yS4	20y0yJS9	209y926J	1F70	dDl
l 8r p	1S0 1	7796J40	747yS20	720661J	7769490	2F4y	dDl
l 8r p	1S9 1	72699SS	71J2020	72S1916	721J1J1	1F42	dDl
l Cocmb	27 2	402JS444	46J0y99y	40JSJ2S4	40721y4J	SF99	dDl
l TpC. Tcmb	J6 1	19y4494S	1J92y071	1J496SSJ	1J9JJJ97	2F0J	dDl
l TpC. Tcmb	JJ 1	160047S9y	167J06409	1620J944y	164JS7SS6	1FyJ	dDl
l m8Vmp	74 1	y6Sy99	yy41S6	y4911S	yy46Sy	1FS4	dDl
Ar pecmb	1y9 1	9J70S67	97yy6S9	974J007	9y17J1y	2F94	dDl
Ar pecmb	1y9 2	7047167	76y0090	76J9760	7696006	1F10	dDl
AEw8cmb	2S7 1	7SJJJSS	299021S	297yy14	7SS010y	2Fy6	dDl
AEw8cmb	2Sy 1	0179904	6906472	6J19746	690JyJ4	2F7S	dDl
Ac	11J 1	2246Jyy	219J91J	214S092	219yy22	2F42	dDl
AcTw. cmb	40 1	709021y	701y4y7	7640y67	702SS00	2FS1	dDl
Mpw. cmb	27J 1	1S629277	1S27010S	1S26929S	1S70Jy6y	2F1S	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:I wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.u wb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

Nwpwb r Tr p	R wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl R r w.	3 Nl 5 l &	M. dT
- w. wocmb	y1 2	y2201J	y17S2S	yS66y0	y14172	1Fy0	dDl
YTTr pecmb	102 1	1yJ	210	142	102	22FJ0	dDl
YTTr pecmb	102 2	1S6	60	J9	J0	22F42	dDl
YTTr pecmb	106 1	17066	17699	17924	17096	SFJ4	dDl
YTTr pecmb	106 2	14992	1y72S	1490S	1yS94	1F7S	dDl
YTTpcmb	J9 1	1229766J	11J7262y	11y6JSyJ	11J9J110	7FS9	dDl
YTTpcmb	J9 2	1124J77	1SJ9220	1SJ6219	11SSS97	1F9y	dDl
Zc d	66 2	114J1S0	1149y16	114yJ42	1140J22	SF16	dDl
ZqpdC. cmb	9S 1	4yy109S	4y9y121	44S09Jy	4y1J299	2F10	dDl
ZqpdC. cmb	91 1	9J922S	99466y	9y7J62	909249	2F26	dDl

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Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame cqduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
cRmACAm	2072	1: 9	166	1y9	1: 2	: FS2	ql w
cC&AmnCh	12171	: - -	1S42	12- -	1S- 6	1yF- 1	ql w
crweCAq	0972	:	0	1-	y	- 4F44	ql w
BsrAm	1- 971	19S	142	9S	114	4: F02	ql w
BsrAm	1- 071	2: -	2SS	1S:	1y0	44F- :	ql w
BerhFAm	y71	1- 4	11S	: 6	11S	21F9y	ql w
BAmu&E	2Sy71	60261S2	601yy26	66y1- y1	601240-	SF2:	ql w
BAmu&E	2Sy72	26: 002:	- 21: y6:	- 221040	- S42: 19	1SF11	ql w
BrnmACe	: 171	- : 42	- ySy	- y42	- : y:	1F- 1	ql w
3 sOmAm	1S: 71	1-	9S	10	26	00F: :	ql w
3 sOmAm	1S671	- 460	- - - 4	- 060	- 92-	6F- S	ql w
3 sOmAm	11171	4- S	4- 2	461	441	- Fy0	ql w
3 sRqAm	4- 71	- y1	- 09	2y9	- 94	14F96	ql w
3 sRqAm	4471	44- 91	4- 2- 0	42: : 1	4- 4: y	1F06	ql w
3 srbnC	1271	2- - : S44	2- 2- 9SS	2- 40y1y	2- - 64: 0	SF9-	ql w
3 srbnC	1272	20: 00	2: 1y4	20: : 6	20y: 6	SF69	ql w
3 EPrACe	- 971	y4S21-	y2y412	y162: 0	y2: 6- 0	1F2y	ql w
3 EPrACe	- 972	6- 6:	64- 9	6S4-	62: 2	- F- 4	ql w
3 ErnmAm	9272	y6S	1110	1160	1S: 1	yFy0	ql w
3 nbsR&	9y72	11S	1S0	1SS	1S6	4F: 2	ql w
3 nI I er	6- 72	210S	2264	2S90	2164	4F0:	ql w
t hwI rnwAm	19671	9S	S	S	10	10- F21	ql w
t hwI rnwAm	19672	S	-	-	2	: 6F6S	ql w
. rbAm	16471	9S	42	9:	9S	16F66	ql w
. rbAm	16472	0	10	2-	16	9- FyS	ql w
GsOnFACAm	16S71	29	60	y2	61	99F11	ql w
GsOnFACAm	16S72	y0	19-	14S	1- S	22F0y	ql w
HnPmAm	16971	y0660: 9	y- - : 611	y299y4y	y49- 0: 2	2FyS	ql w
HnPmAm	16972	- 4y66S2	4S- 9- S:	41- : - 0y	- : ySSy6	: F: 6	ql w
DDOAm	11971	6y09946	0S2: 409	66y- 00-	6: yy264	2F61	ql w
DDOAm	11972	0y0S4-	y- : : : :	y49y4S	: y- y90	yF4S	ql w
DnC	9472	060	0y9	6: y	09S	0F- S	ql w
DnC	9672	y961	1S62y	0yy-	y- y4	14F12	ql w
DnC	9072	- 02	- 11	- 2:	- - 0	yF- 0	ql w
KrhI &nC	: - 71	242	292	249	240	2F11	ql w
LesO	2S671	1096	1660	1460	16- S	yFS:	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 ReC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame c qduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
LesO	2S071	1911	1422	1- SS	1411	0F91	ql w
LesO	2S: 71	0S49	6062	9096	6921	1SF- y	ql w
LAEAum	671	29219yy	2- 64: - 0	2- y2- 6S	2426269	- F49	ql w
RsgCewAum	2472	2142	1- 10	y: -	14: 1	4SF2y	ql w
RsCgsCewe	9972	190	2: S	2S-	21-	2yF1y	ql w
RnPbOeCum	y471	11S:	yy2	6y2	y- 1	2- F1S	ql w
RnPbOeCum	y971	119:	1- SS	: y2	1110	1: F90	ql w
RnPbOeCum	y671	16SS	129S	y29	129:	26F-	ql w
RnPbOeCum	y071	: 09	0S:	49:	6: 1	- SF- 2	ql w
RnPbOeCum	y: 71	2229	10y2	12: -	1060	26F6:	ql w
NenChmAum	19S71	2S	1-	0	1-	4yFyy	ql w
NenChmAum	19S72	S	-	S	1	10- F21	ql w
NAqkeP	6S72	00	11S	yS	y2	1: F1y	ql w
8 EnwI Enruw	- 172	09	y2	160	111	4- Fy9	ql w
8 n&swwAum	- y72	14904	14- 66	1- 6yS	1421S	- F29	ql w
5 EnOAum	1S- 71	0S: 1226	60: - 1S4	6: 9S260	6yS4: 66	2F26	ql w
5 EnOAum	1S- 72	2041- 01	- 192yyS	- 2Sy99y	- S- 464S	: F42	ql w
pqsCOAum	4971	44091y2	44S2- : S	4- 6: 996	4419- 06	1F2-	ql w
pqsCOAum	4972	1104y9	1- 0911	1- : y6-	1- 1- 2-	yF14	ql w
pe&eCAum	: 271	21	71-	-	4	49SFy2	ql w
pe&eCAum	0072	S	S	S	S	SFSS	ql w
pe&eCAum	0: 72	1:	12	2-	1:	- 1F10	ql w
pAAqnC	2: 71	1y090:	1yS24y	1: : 41S	1y2S0y	2F9-	ql w
pAPer	1S071	- 9:	- : -	2: -	- 42	19F2-	ql w
pAPer	1Sy71	209	- 09	129	29:	4: F01	ql w
pnOAum	2- 72	9Sy4y	4y- 9y	49026	4: 60:	9F9S	ql w
p&nC&Aum	: 671	12y2	1110	6: -	1S- 1	- SF- y	ql w
p&nC&Aum	: : 71	: S42	9: 20	- 2: 4	901:	41F64	ql w
pulPur	- 471	- S- - y6	- 1S6S-	- S: 099	- S09: 9	1F22	ql w
i erbAum	19y71	yyS- - - 0	y900919	y99409:	y60: 9- 0	2FS1	ql w
i erbAum	19y72	- 492S44	- y20: 09	- y42S1:	- 00- y0y	0F- y	ql w
i EsPAum	2S- 71	1- y2	1210	1S9:	1222	1- F64	ql w
i EsPAum	2S971	- - 9y	2y9S	2: 42	- S9S	: Fy-	ql w
i AC	11: 71	y10	1S9S	1160	1S49	11Fy:	ql w
i A&sCAum	4071	2: -	209	210	29:	14FS6	ql w
MrsCAum	2- : 71	- y2	- 10	2y2	- - -	19F61	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8 :
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame c qduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
VsCsOAum	9172	- -	- -	20	- 1	12F- 6	ql w
Y&erbAum	10271	- -	42	09	9S	44F1S	ql w
Y&erbAum	10272	6	- -	- -	24	66F6S	ql w
Y&erbAum	10671	1- 10	1109	129S	1240	9F6:	ql w
Y&erbAum	10672	y1: 1	1114y	11961	1S6- S	11Fy6	ql w
Y&&Aum	: y71	124yS60S	1299- 44y	12261260	124- 912y	1F24	ql w
Y&&Aum	: y72	1S6S: : 1	122: Sy9	1241260	110604:	: F99	ql w
ZACq	6672	24S	29S	210	2- 6	0F26	ql w
ZAqnCAum	yS71	960	9S:	460	914	yF0:	ql w
ZAqnCAum	y171	142	09	: -	1SS	- 6F- 2	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 2S	tCl Tpmb Cr T.uwb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU04	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :uwb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1172h4-	117777-	121S021	11h4172	1M22	dDl
qCTb nCE	121 1	- - 06	- h06	4S42	- 0h7	hM60	dDl
qpl r Ccl	0a 2	1Sah	1S04	1162	1Sh7	aM80	dDl
Bwpcmb	1- a 1	611a2a	6224S0	61- h47	61ah6S	SM1-	dDl
Bwpcmb	1- 0 1	1Sh6- 7-	1111- 6S	11S- 260	11S- 60S	SM67	dDl
Br pE8mb	h 1	20- 4	2001	26hh	20- a	1M-	dDl
Bdb mTG	2Sh 1	66S7424	672h41a	6717h- h	60a22ah	1M7a	dDl
Bdb mTG	2Sh 2	- 6S1211	- 672710	- 2hh- h1	- a207S6	aM0-	dDl
Bpmb cCr	71 1	6a00	0Sa2	0S1S	677S	- M72	dDl
5 wob cmb	1S7 1	2S7	177	101	17h	hM1a	dDl
5 wob cmb	1S6 1	41- 4	4- 10	42ah	42- 0	2M21	dDl
5 wob cmb	111 1	1622	176-	101h	10- a	0M8S	dDl
5 w8lcmb	4- 1	- S6427	- S0h77	- 1Sa10	- S7- 11	SM60	dDl
5 w8lcmb	44 1	a12S4S2	a- S067S	a- h4746	a204- Sh	2M66	dDl
5 wpenC	12 1	06hSS2a	7S7S1h4	7174044	0h74h70	- M20	dDl
5 wpenC	12 2	h0h67	h6026	h7S26	h0a0-	SM0a	dDl
5 G8hpcCr	- a 1	h6- 0- 07	12201- h6	1446- ShS	1212- haa	1hM1-	dDl
5 G8hpcCr	- a 2	124466	1- SS- h	1- h4h2	1- 1- - -	aM07	dDl
5 Gpmb cmb	a2 2	27aaa	200h4	20764	27S01	1M4S	dDl
5 new8T	ah 2	- 2a60	- 17hh	- 226-	- 224-	1M84	dDl
5 nDDr p	6- 2	07a0S	0a46h	0472h	062hS	2M62	dDl
&El Dpnl cmb	1a6 1	a- 466	a416h	a- h17	a- 7a1	SM66	dDl
&El Dpnl cmb	1a6 2	2210a	224- 6	22626	22412	1M81	dDl
Fpecmb	164 1	- haS1	42- h4	422S1	41- 6a	- M41	dDl
Fpecmb	164 2	1664S	166h1	16064	166h7	SM10	dDl
Hwon8Cmb	16S 1	40a1S	401- a	46066	401- 0	SM0h	dDl
Hwon8Cmb	16S 2	22646	22Sha	224S6	22- 72	1M4-	dDl
y n8b cmb	16a 1	h4h7a61	h06226-	1SSa011-	h002646	2M76	dDl
y n8b cmb	16a 2	467hh41	4h2- 42-	427a- a7	46- 2hS0	6M10	dDl
tCocmb	11a 1	67- - 024	6771674	02140a7	6h06022	2M10	dDl
tCocmb	11a 2	1S- 6ah2	1S00h61	h02h7S	1S2h107	aM14	dDl
tpnC	a4 2	212a667	2Sh6ah7	21S0a6-	21Shh4-	SM0S	dDl
tpnC	a6 2	- h411ah0	- hSa4720	- 771hah4	- hSha- - h	SM06	dDl
tpnC	a0 2	h27406	hS1712	h1h721	h160S-	1M47	dDl
KpEDTnC	7- 1	266	- Sa	274	27a	6M71	dDl
Lr wo	2S6 1	227a- a	2- 4442	2- 4aS6	2- 24h4	1M47	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 2S	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU04	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :u wb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	176S- 0	1h- 470	1h- - S0	1hSh44	2M4-	dDl
Lr wo	2S7 1	77ha1h	hSh2Sa	h1101S	hS- 407	1Mla	dDl
LdTGmb	6 1	242aa0S	2a- 7- S-	2a611a2	2aS7- 42	2M7h	dDl
9 wgCr l mb	24 2	64h4a7	6410h4	6aaS76	64700h	1M8-	dDl
9 wCgwCr l r	aa 2	a140h-	a12Sh4	a1a- 21	a14S6h	SM4	dDl
9 n8Eeor Cmb	h4 1	2S7a7	2S- a0	21S16	2S044	1M66	dDl
9 n8Eeor Cmb	ha 1	44S1	4a17	404-	4aa4	- M72	dDl
9 n8Eeor Cmb	h6 1	7S44	0744	07a2	0h14	1M4-	dDl
9 n8Eeor Cmb	h0 1	26ah	2aaS	2610	26Sh	2M1S	dDl
9 n8Eeor Cmb	h7 1	017a	0- a2	027a	0204	1Mla	dDl
u r noEb cmb	1aS 1	700ah	hS- S2	7h4hS	7h174	1M46	dDl
u r noEb cmb	1aS 2	20241	26h2S	27S66	204Sh	2M16	dDl
u cdkr 8	6S 2	1S- 00	1S4a0	1SS20	1S270	2M22	dDl
NGhl DGhpml	- 1 2	41ah	4- Sh	4a4-	4- - 0	4M46	dDl
NnTwl cmb	- h 2	4h6274	4h7a41	aSSa- 0	4h74a4	SM4-	dDl
. Ghocmb	1S- 1	674S016	6744a16	6h060a2	6770- 27	1M12	dDl
. Ghocmb	1S- 2	- 4hh1h6	- 6722h-	- 2147h7	- 46a462	6M7S	dDl
l dwCocmb	4a 1	4- S- 260	4aS- 416	4a0- h72	446S222	- Mla	dDl
l dwCocmb	4a 2	1a6121	16- 244	144102	1a4a12	6M24	dDl
l r 8 Ccmb	72 1	122	124	1- a	120	aM42	dDl
l r 8 Ccmb	00 2	hS	110	11S	1S6	1- Mla	dDl
l r 8 Ccmb	07 2	1S2	0a	h6	h1	1aM47	dDl
l d8dnC	27 1	7aa1200	7622ha0	7a7Sa40	7a74h20	SM42	dDl
l d8vr p	1S0 1	10h2	16a7	10Sh	102S	- M12	dDl
l d8vr p	1Sh 1	16SS	167-	1a2a	16S-	4M14	dDl
l nocmb	2- 2	141h70	124672	12a771	1- S7aS	0Mh	dDl
l TpmCTcmb	76 1	7h4a0S	7h2422	hS22hh	7h64- S	SM47	dDl
l TpmCTcmb	77 1	7S72040	7267Shh	717hS- 1	710hhah	1M14	dDl
l m8mp	- 4 1	- 2a4h0	- 21a0h	- 16- 04	- 211aS	1M42	dDl
Ar pecmb	1ah 1	h4h77- 7	1SSSS06-	1SS1h40a	h7- h6h2	- M8S	dDl
Ar pecmb	1ah 2	44Sa160	467S00a	41h62a0	4420- hh	aM4h	dDl
AGw8mb	2S- 1	- 0ah	- 7a1	4Sah	- 7hS	- Mla	dDl
AGw8mb	2Sa 1	704a	hS4a	76a-	7714	2M-	dDl
AdC	117 1	0611	0644	72- 6	07- S	4M4h	dDl
AdTwCcmb	40 1	0111h	0S26a	0ShSh	0S064	SM0-	dDl
RpwCcmb	2- 7 1	a- h- 2	aaS70	aahS7	a4h0a	1M71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 2S	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU04	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :u wb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	a1 2	6- 416	62771	62h07	6- Sh2	SM4a	dDl
YTTr peomb	102 1	12h- 2	1- 74h	1- 4S0	1- - h6	- M4-	dDl
YTTr peomb	102 2	6- 0h	647a	0S41	66- a	aM6	dDl
YTTr peomb	106 1	h612	haa4	hhS4	h6hS	1M14	dDl
YTTr peomb	106 2	160aa	10SS6	1a021	164h4	4M1-	dDl
YTTpomb	7h 1	120- 4464	1- 2007hS	1- 467a06	1- 16S- 1S	2M7h	dDl
YTTpomb	7h 2	1a046aa	161a127	142426a	1a- 7S16	6M44	dDl
ZdCd	66 2	6SS6-	ahS22	a7674	ah2a0	1M21	dDl
ZqpdnComb	hS 1	4h7h7	aS1- -	4h2a4	4h062	SM11	dDl
ZqpdnComb	h1 1	1ShSa	1S646	1147S	11S1S	- M7	dDl

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Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 21	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU0a	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb dCcmb	20 2	0477- h	0aa46S	0a7- 20	0a42Sh	SM6a	dDl
qCTdb nCE	121 1	2a42	- SSh	- 406	- SSh	1aM41	dDl
qpl r Ccd	0a 2	1- 76	1- hh	1- a1	1- 0h	1M7S	dDl
Bwpcmb	1- a 1	447hS0	466S27	4a72hh	4a004a	1M70	dDl
Bwpcmb	1- 0 1	7S7S4a	71h27a	71a6Sa	714- 12	SM0S	dDl
Br pE8mb	h 1	2100	2- 61	2226	22aa	4M22	dDl
Bdl b mTG	2Sh 1	67h6aa1	6h2h0h6	6774S42	6hS- 46-	SM4	dDl
Bdl b mTG	2Sh 2	- a0a2- 2	- 21a262	- 26S6a7	- - aS- 74	aM7a	dDl
Bpmb dCr	71 1	60S2	671S	0a44	0S1h	6M4-	dDl
5 wob cmb	1S7 1	142	11-	1a4	1- 6	1aM01	dDl
5 wob cmb	1S6 1	42a1	4S26	4SS1	4Sh2	- M0	dDl
5 wob cmb	111 1	11ah	110S	1S77	11- h	- M1S	dDl
5 w8lcmb	4- 1	164664	10Sah2	16021h	1604h2	1M07	dDl
5 w8lcmb	44 1	2hSa0S0	2776- 70	270h010	27hS6S-	SM40	dDl
5 wpenC	12 1	a4416- 0	a612- 11	a6h0h- 2	aa7- h6S	2M4	dDl
5 wpenC	12 2	674h4	6h16-	67aS2	6702S	SM46	dDl
5 G8mpdCr	- a 1	1a- 6774S	1hS4h6- S	21144a6h	17a21S1-	1aM0h	dDl
5 G8mpdCr	- a 2	164a27	10124a	106- 47	10S0S0	- M40	dDl
5 Gpmb cmb	a2 2	27- 07	274- 2	271h1	27- - 4	SM4a	dDl
5 new8T	ah 2	20470	20h14	20a0S	206a0	SM72	dDl
5 nDDr p	6- 2	aa006	a6hh0	a0- a2	a60S7	1M46	dDl
&El Dpnl cmb	1a6 1	6h016	01Sa6	024- 7	01S0S	1M41	dDl
&El Dpnl cmb	1a6 2	2h66S	- S1h0	- S06h	- S2Sh	1M74	dDl
Fpecmb	164 1	aah7a	a0776	a0S6a	a6h0h	1M60	dDl
Fpecmb	164 2	2- 1SS	2- h- a	2- ah7	2- a44	1M07	dDl
Hwon8Ccmb	16S 1	6S2a-	6Shh7	621S4	61117	1Ma2	dDl
Hwon8Ccmb	16S 2	2hh- 0	2h4Sh	2hh7S	2h006	1M80	dDl
y n8b cmb	16a 1	h014S41	1SS177- h	h0h6214	h74- S- 2	1M6S	dDl
y n8b cmb	16a 2	401aa7S	4- 6- 014	427a10-	44a4722	aM1a	dDl
tCocmb	11a 1	0S6S126	0226S64	01h6114	016S067	1M24	dDl
tCocmb	11a 2	1S7h14-	h002- a	h60722	1S114SS	6M60	dDl
tpnC	a4 2	24aaaS4	24aha0S	2a2h22S	24714- 1	1M60	dDl
tpnC	a6 2	4- h74206	4466h217	44667a26	4444S60-	SM7h	dDl
tpnC	a0 2	1S4767-	1SaS441	1Sa7442	1Sa2a22	SM4h	dDl
KpEDTnC	7- 1	- - S	- 11	- 24	- 22	2M10	dDl
Lr wo	2S6 1	1h7S6a	2S- - - -	2S17a7	2S1S7a	1Ma	dDl

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Lwe:l wb D8 :t&:J	3 - 447 21	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU0a	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	1620- 2	16042a	16aaa7	16a2- 7	1M4-	dDl
Lr wo	2S7 1	00a240	0h422h	07- - 07	07427a	1M21	dDl
LdTGmb	6 1	24h410S	2a- 0a0-	2a72SSh	2a- 0h10	1M0-	dDl
9 wgCr l mb	24 2	aS21S2	aS0462	aS4Sh4	aS4aa-	SM44	dDl
9 wCgwCr l r	aa 2	a4hh72	aa1626	a6S4a-	aa4S2S	1M82	dDl
9 n8Eeor Cmb	h4 1	124S6	1- 4a0	1- 4- 2	1- Sh7	4M47	dDl
9 n8Eeor Cmb	ha 1	42h2	4hS1	4- 74	4a26	0M2a	dDl
9 n8Eeor Cmb	h6 1	66- a	01- 6	67- a	676h	- M60	dDl
9 n8Eeor Cmb	h0 1	2hh2	270a	- S- 4	2h60	2M00	dDl
9 n8Eeor Cmb	h7 1	0aa2	011S	046h	0- 00	- M17	dDl
u r noEb mb	1aS 1	11ha0a	124- 02	12220h	122S06	1M10	dDl
u r noEb mb	1aS 2	- 07hS	- 7221	- h101	- 7420	1M0-	dDl
u dkr 8	6S 2	11a47	117Sa	116a2	11667	1M11	dDl
NGhl DGhpml	- 1 2	- aSh	- a06	- 4- 4	- aS6	2M82	dDl
NnTwl mb	- h 2	414h44	414S76	416140	41aSah	SM2a	dDl
. Ghomb	1S- 1	01121S-	01- 0h47	02117- 0	01a- h6-	SM02	dDl
. Ghomb	1S- 2	- 016247	- - 74622	- - 4aS4h	- 471h0-	aM7a	dDl
l dwComb	4a 1	46S6470	4a472hh	462721-	4ah4- - -	SM1S	dDl
l dwComb	4a 2	1621S7	1461ha	1401aa	1a171h	aM77	dDl
l r 8 Cmb	72 1	1- 1	14a	1- h	1- 7	4M10	dDl
l r 8 Cmb	00 2	1aS	12-	1- 0	1- 0	hM0a	dDl
l r 8 Cmb	07 2	1S6	h1	1S7	1S2	hM14	dDl
l d8dnC	27 1	7a01h- 7	76a616S	70SS627	7642hSh	SM06	dDl
l d8vr p	1S0 1	11SS	1S7-	12S7	11- 1	6M8S	dDl
l d8vr p	1Sh 1	haS	1SaS	1SaS	1S10	aM67	dDl
l nomb	2- 2	a121S	aS4h0	4h776	aSa- 1	1M1	dDl
l TpnCTmb	76 1	- 027S2	- 7aaa0	- hS474	- 72h47	2M7	dDl
l TpnCTmb	77 1	- 4a1h47	- 6S671-	- 64- h02	- a60a07	2M7a	dDl
l m8mp	- 4 1	- S- - h0	- S- 1a7	- S4270	- S- 614	SM2S	dDl
Ar pemb	1ah 1	1S11h7h-	1SS011a-	1SSa6727	1SS7262a	SM-	dDl
Ar pemb	1ah 2	4011h4-	41- haS4	4160114	4- - ha2S	0M44	dDl
AGw8mb	2S- 1	2674	2042	- S- 4	272S	6M0a	dDl
AGw8mb	2Sa 1	6- 20	0- 6h	0SS2	67hh	0M66	dDl
AdC	117 1	7S61	7476	7661	74S-	- M60	dDl
AdTwCmb	40 1	1h246a	1h07hS	1h6626	1ha66S	1M4a	dDl
RpwCmb	2- 7 1	42071	42h1a	4- 172	42h6S	SM47	dDl

Reviewed By:Bin
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LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 21	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU0a	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	64407	6- hah	6471-	64416	SM00	dDl
YTTr peomb	102 1	17- Sa	17- aa	1hS7h	17a7-	2M6	dDl
YTTr peomb	102 2	h270	h170	h2h7	h2a0	SM06	dDl
YTTr peomb	106 1	12072	1- 624	1- a04	1- - 20	- M4a	dDl
YTTr peomb	106 2	17a04	10617	107a1	17S14	2M00	dDl
YTTpomb	7h 1	1- 4a4- SS	1- h6S0S4	1- 77S0aa	1- 06a2a-	1M17	dDl
YTTpomb	7h 2	16S06- h	1401Sa-	1a2aSSh	1a- 4a60	4M17	dDl
ZdCd	66 2	4a40h	4a40h	464a6	4a7Sa	1M4-	dDl
ZqpdnComb	hS 1	20062	27- 1-	2h26a	27446	2M00	dDl
ZqpdnComb	h1 1	611S	6a1S	61S1	624S	- M04	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
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LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :u wb r :J	124q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1Sh4ha-	1S70- aa	1ShS004	1Sh1S20	SMa	dDl
qCTb nCE	121 1	2160	2- 60	2- 74	2- S6	aM4-	dDl
qpl r Ccl	0a 2	1S7h	11- a	111S	1111	2M80	dDl
Bwpcmb	1- a 1	470470	4h700-	4726S1	47h62S	1M0h	dDl
Bwpcmb	1- 0 1	74a7- 1	7ha201	7a642-	76a741	- M81	dDl
Br pE8mb	h 1	27- 0	2hha	2h4a	2h26	2M0a	dDl
Bdl b mTG	2Sh 1	6hS402S	aa7h4S0	6hSh1- 0	64600aa	11M06	dDl
Bdl b mTG	2Sh 2	- 20a70a	- 272242	- 2aS0S-	- 26h6S0	SMd1	dDl
Bpmb cCr	71 1	0- - a	0h6h	0a61	0622	4M21	dDl
5 wob cmb	1S7 1	146	1a7	21-	102	2SMd0	dDl
5 wob cmb	1S6 1	4717	- 260	4- S1	412h	1hM12	dDl
5 wob cmb	111 1	16a1	14hh	1- h7	1a16	7M7	dDl
5 w8lcmb	4- 1	2h1Shh	2h6a2a	27712h	2h1h10	1M46	dDl
5 w8lcmb	44 1	aSSa201	4ha17- 0	4h062S6	4h00001	SMd4	dDl
5 wpenC	12 1	a2102- 0	aaS04h2	aa- SS4h	a4172ah	- M22	dDl
5 wpenC	12 2	64a74	6aa1-	67hS4	66- - 4	- M4-	dDl
5 G8hpcCr	- a 1	1076- 2- 0	21S6- 0S7	22haa1Sh	2S620- a1	12M47	dDl
5 G8hpcCr	- a 2	102621	10aah0	171S6-	106420	2M4-	dDl
5 Gpmb cmb	a2 2	2040-	2660a	2661a	26h21	1M07	dDl
5 new8T	ah 2	4S1S6	- h- 21	- h04a	- h024	SM1h	dDl
5 nDDr p	6- 2	0a- 42	04aS1	02042	041ha	1M0h	dDl
&El Dpnl cmb	1a6 1	aa6aS	a7021	a616S	a6744	2M1S	dDl
&El Dpnl cmb	1a6 2	24S- 2	24- 42	24a26	24- SS	1M8-	dDl
Fpecmb	164 1	44067	40142	46774	4626a	2M72	dDl
Fpecmb	164 2	1747S	177h0	1726-	17a46	1M04	dDl
Hwon8Cmb	16S 1	a1hh4	a46- 0	a2646	a- Sh-	2Md1h	dDl
Hwon8Cmb	16S 2	24Sha	24a1-	24- 2h	24- 12	SM76	dDl
y n8b cmb	16a 1	hh76S27	071S7h6	hh- 01a4	h2446h-	1- M4-	dDl
y n8b cmb	16a 2	421h- 4S	4- 2a- 12	412- 0- 1	42220h4	2Mh	dDl
tCocmb	11a 1	02- - S1S	a7a202-	0SaS210	6011h74	11M10	dDl
tCocmb	11a 2	h0Sa2h	hh- 60a	h66Saa	h060a-	1Md2	dDl
tpnC	a4 2	22647a4	21a76h1	222666S	22160- a	2M4-	dDl
tpnC	a6 2	- hh72- 4S	- h0aaaS7	- h617aa6	- h07a467	SM46	dDl
tpnC	a0 2	h4a46S	h4S77S	h- S4- 2	h- 7h24	SM72	dDl
KpEDTnC	7- 1	- 4a	- S6	- 12	- 21	6M40	dDl
Lr wo	2S6 1	1ha416	1hhSa2	1h1704	1ha447	1M74	dDl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :uwb r :J	124q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	162aaa	16a07-	1a0161	1617- -	2M6h	dDl
Lr wo	2S7 1	0a1h0-	000460	04047S	0a7h0-	2M1-	dDl
LdTGmb	6 1	261h- aS	211hS- a	2a- - 012	2424S- 2	11M84	dDl
9 wgCr l mb	24 2	64- 61S	6- 2- S2	6416Sa	6- h102	SM14	dDl
9 wCgwCr l r	aa 2	6hSh7h	676204	60462h	67- h64	1M2-	dDl
9 n8Eeor Cmb	h4 1	2S- 6a	21Sh2	217- 4	21Sh0	- M47	dDl
9 n8Eeor Cmb	ha 1	- 274	- aa1	- 410	- 410	- M1S	dDl
9 n8Eeor Cmb	h6 1	664-	021h	0461	01S7	aM11	dDl
9 n8Eeor Cmb	h0 1	1hah	2260	22ah	2161	7M1-	dDl
9 n8Eeor Cmb	h7 1	a467	a64-	ah26	a60h	4M80	dDl
u r noEb cmb	1aS 1	h4122	hh446	h6S- a	h6a- 4	2M0h	dDl
u r noEb cmb	1aS 2	2h- 6h	2h1ha	2h42h	2h- - 1	SM41	dDl
u cdkr 8	6S 2	1124a	11aS1	1S7a4	112SS	2M11	dDl
NGhl DGhpml	- 1 2	2- ah	- S74	20- 4	202a	1- M1	dDl
NnTwl l cmb	- h 2	- 6727a	- 647- 0	- 66S- 6	- 66- 76	SM47	dDl
. Ghocmb	1S- 1	026S667	a06a4- 0	02ha440	600- 7a1	12M7h	dDl
. Ghocmb	1S- 2	- 26hS16	- - 702- S	- 22aaS4	- 2h- h10	2M44	dDl
l dwCocmb	4a 1	47172SS	- 71a126	402a766	44a- S64	12M4a	dDl
l dwCocmb	4a 2	146427	14766S	142a66	14a77a	2M11	dDl
l r 8 Cmb	72 1	70	12h	1S0	1S7	1hM11	dDl
l r 8 Cmb	00 2	7-	1- 0	0S	h0	- 6M4S	dDl
l r 8 Cmb	07 2	h7	h2	ha	ha	- M16	dDl
l 8dnC	27 1	1SS66224	1SS7S2Sa	1S17761-	1S111671	SM06	dDl
l 8vr p	1S0 1	1- a7	1a2a	10S7	1a- 1	11M44	dDl
l 8vr p	1Sh 1	1a42	1a2a	127-	14aS	hM10	dDl
l nocmb	2- 2	1a00- S	16S60S	16S0- 0	1ah01-	1M37	dDl
l TpnCTcmb	76 1	67- - 62	0S- 70S	6h7S6-	6haSh7	1M42	dDl
l TpnCTcmb	77 1	6- - SS0a	6440h07	6- ha124	6- h1Sah	SM12	dDl
l m8mp	- 4 1	2h7- 2a	- S1SSa	2h707a	2hh- 02	SM47	dDl
Ar pecmb	1ah 1	1Sa16Sa1	7216S- 7	1S1a6aS2	h62ha- 1	12M7a	dDl
Ar pecmb	1ah 2	4Sh6h7a	424S6- 7	4S- - 662	412- 062	2M40	dDl
AGw8mb	2S- 1	2h- 4	- 110	20ah	2h- 0	6M1S	dDl
AGw8mb	2Sa 1	0161	0Sa2	04a2	0222	2M70	dDl
AdC	117 1	1S- 1-	1S421	1S1a4	1S2h6	1M1S	dDl
AdTwCmb	40 1	a674-	a4a7S	a44a4	aa2h2	2M4-	dDl
RpwCmb	2- 7 1	a2h11	a6Sah	a20S2	a- 7h1	- M4h	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :u wb r :J	124q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	a1 2	6hh46	01421	0110-	0S740	1M11	dDl
YTTr peomb	102 1	1- h04	14760	14- 60	144S-	- M11	dDl
YTTr peomb	102 2	0S41	0S24	6h46	0SS4	SM02	dDl
YTTr peomb	106 1	1S446	1Sa- 7	1S4a4	1S40h	SM47	dDl
YTTr peomb	106 2	16S1S	1a072	16- 1S	16S- 4	1M6a	dDl
YTTpomb	7h 1	1- hh07Sh	11S7a764	14S- - 10S	1- S- 7h47	12M10	dDl
YTTpomb	7h 2	141a0SS	1401SS6	142- 12h	14- 6612	2M8h	dDl
ZdCd	66 2	44- 1h	4- 604	4- 624	4- 702	SM77	dDl
ZqpdnComb	hS 1	aS71h	a- 26h	a267-	a22a0	2M4a	dDl
ZqpdnComb	h1 1	112- 7	12S- h	11402	11a7-	- M46	dDl

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	246	16S	1 S	1	22N87	dDl
q. Tb C. h	121:1	1-S	210	1-N	10-	2SN06	dDl
qpl r . cl	0-:2	0	1	-	4	0SMS	dDl
Bwpcmb	17-:1	2-S	1N7	1-S	1 4	26M1	dDl
Bwpcmb	170:1	72-	242	160	244	72M4S	dDl
Br ph8&mb	:1	60	0	N1	06	N06	dDl
Bdl b mTE	2S :1	02661 N	0S0SNNN	0S0 176	017N041	1M-	dDl
Bdl b mTE	2S :2	77112-0	77 7 N6	72N7S-S	772 471	1N07	dDl
BpCb c r	N1:1	7 S	4674	42S1	424N	NM	dDl
Fwob cmb	1SN:1	7N	2-	21	2N	71N27	dDl
Fwob cmb	1S6:1	7642	7-26	77N4	7-10	7N6N	dDl
Fwob cmb	111:1	4S	7 7	7N2	7 -	7M	dDl
Fw8lcmb	47:1	4SS	41S	70	7 6	4N87	dDl
Fw8lcmb	44:1	41--N	41714	4S62N	41160	1M10	dDl
FwpeC.	12:1	22 -N-	2260N-7	2207 2	220 214	SN6-	dDl
FwpeC.	12:2	26 60	20-S1	202-	20247	SMN	dDl
FE8Qpc r	7-:1	47 7-6	41 -6N	7 00464	41 SN70	-N87	dDl
FE8Qpc r	7-:2	246NS	27- -	21 -S	274SN	-NN0	dDl
FEpCb cmb	-2:2	171S	172S	1120	12-2	NN6	dDl
FCew8T	- :2	NS	00	67	07	12N87	dDl
FCDDr p	67:2	1067	177S	11S7	17	27M0	dDl
&hl DpCl cmb	1-6:1	S	10	N	N	1SSN82	dDl
&hl DpCl cmb	1-6:2	7	0	7	4	47M4S	dDl
Upecmb	164:1	-N	60	-N	61	0NN	dDl
Upecmb	164:2	10	27	27	21	1NN21	dDl
GwoC8c mb	16S:1	12-	N7	1SS	1S7	2SM4S	dDl
GwoC8c mb	16S:2	140	16S	117	14S	10M10	dDl
HC8b cmb	16-:1	1S721217	1SS--64N	1S1SN 16	1S161 26	1N7N	dDl
HC8b cmb	16-:2	422447N	42 676	4767-4N	42 -N04	1N62	dDl
t. ocmb	11-:1	0671SS0	070SS11	027 260	041742N	2N6	dDl
t. ocmb	11-:2	S216	1S170--	N4S N	6S27	1M10	dDl
tpC.	-4:2	061	-SS	-44	6S2	27N21	dDl
tpC.	-6:2	1S166	-60	6S 6	0714	77NN	dDl
tpC.	-0:2	711	222	1N7	27	20M42	dDl
KphDTC.	N7:1	2--	2-0	261	2-N	1N42	dDl
Lr wo	2S6:1	1460	144-	1411	1441	1M4	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	1SN	12-S	1122	11-4	0M10	dDl
Lr wo	2SN:1	-6S1	-N4S	-42N	-627	7M60	dDl
LcIEcmb	6:1	2-- 770	24-6-26	2-6S1S	2-2-724	2M16	dDl
9 wg. r l cmb	24:2	17 2	-SS	4N7	0 2	6-M0-	dDl
9 w. gw. r l r	--:2	2 0	110	1-S	1NN	-1M8S	dDl
9 C8heor . mb	4:1	4SN	72-	7SS	744	16M40	dDl
9 C8heor . mb	-:1	760	477	277	744	2 M0	dDl
9 C8heor . mb	6:1	-SS	-77	460	-SS	6M60	dDl
9 C8heor . mb	0:1	2SN	2-N	160	211	21M04	dDl
9 C8heor . mb	N:1	6 2	60-	70-	-N1	7SM0S	dDl
u r Cohb cmb	1-S:1	17	17	S		N6M0S	dDl
u r Cohb cmb	1-S:2	7	7	0	4	47M4S	dDl
u cdkr 8	6S:2	-7	60	60	62	12M7N	dDl
3 ECl DECpm	71:2	1SN	1-S	2	110	2-M0-	dDl
3 CTWl l cmb	7 :2	114--	11167	117--	11724	1M71	dDl
y ECocmb	1S7:1	001N-4N	0440N67	02-0N44	04040-1	7M1S	dDl
y ECocmb	1S7:2	7717S76	7444020	772 26	7762-67	2M17	dDl
l dw. ocmb	4-:1	4 SS704	40SS7-1	400101N	40 SN14	2M12	dDl
l dw. ocmb	4-:2	140644	14 61N	14 -61	14N 41	SM0-	dDl
l r 8 . cmb	N2:1	:70	:4	:14	:1N	: 4M4	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1-	N	16	17	77M7	dDl
l c8dC.	2N:1	1N7N 4	10021	106476	10 1N7	2M2	dDl
l c8vr p	1S0:1	242	160	1 2	2SS	1 M1S	dDl
l c8vr p	1S :1	12-	12-	142	171	0M10	dDl
l Cocmb	27:2	2-471	27 N0	24- 6	24601	2M4	dDl
l TpC. Tcmb	N6:1	1SSS	60	11SS	1S22	6M0	dDl
l TpC. Tcmb	NN:1	- 1	1S471	7674	6661	-1M7	dDl
l m8mp	74:1	207164	20242-	26NS0	201227	1M81	dDl
Ar pecmb	1- :1	1S-7 S N	1S10-10	1SS67240	1S2- 10-	2M17	dDl
Ar pecmb	1- :2	41--S77	4201117	4S 641	41041NN	2M17	dDl
AEw8cmb	2S7:1	4N7	-60	777	461	2-M04	dDl
AEw8cmb	2S-:1	1442	11-N	11-N	12-7	17M36	dDl
Ac	11N:1	1142	120-	110-	11 0	-MS	dDl
AcTw. cmb	40:1	2-S	2 2	777	2 2	14M2	dDl
5 pw. cmb	27N:1	20-	2 2	177	277	70M2	dDl

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3I 1	F3I 2	F3I 7	F3I 9 r w.	F3I y l &	5 . cT
Vw. wocmb	-1:2	-S	10	7S	72	-2N36	dDI
YTTr pecmb	102:1	2-	1SN	2	0-	-NNMS	dDI
YTTr pecmb	102:2	-S	22	7	70	70N0-	dDI
YTTr pecmb	106:1	11N7	1--N	1777	17-N	17MS	dDI
YTTr pecmb	106:2	11720	11 60	12-07	11 -6	-N21	dDI
YTTpcmb	N :1	17NN4S61	17721070	1714 N1	174-1 26	2NN-	dDI
YTTpcmb	N :2	12 70S-	14S1N-1	12 1441	172N	4N0-	dDI
Zc d	66:2	1N7	1-7	1N7	107	M	dDI
ZqpdC. cmb	S:1	-2-	410	-SN	4N7	12N30	dDI
ZqpdC. cmb	1:1	60	1-N	177	11	7 N60	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 66B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 66	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12al sS4s2-	&l T Rdpamle pas	126LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	16-2	1--	1014	1642	4M06	dDP
q. Tde C. h	121J1	10-12	1u70	10-S7	100 u	2M7	dDP
qlPp. cd	0-J2	201	27-	2-u	2--	0M16	dDP
Bl ldbe	17-J1	1uu64	1 2 u	1 6u2	1 2u1	2M12	dDP
Bl ldbe	170J1	7706S	744 -	7772-	77u6S	1M0-	dDP
BplhNbe	J1	2240	27-4	2774	2712	2M44	dDP
BdPe bTE	2S J1	6u-u4 0	601-uS2	6646 S0	604S4S2	1M0S	dDP
BdPe bTE	2S J2	712S020	7741u4	7214 0	722-u-1	7M44	dDP
BlCe c p	u1J1	41u4	4S06	42S	41-6	1M01	dDP
Fl oe dbe	1SuJ1	221	2-S	101	214	1uM02	dDP
Fl oe dbe	1S6J1	7u60	7606	76S	7010	7M01	dDP
Fl oe dbe	111J1	2672	267	2u-4	20Su	4M06	dDP
Fl Ndbe	47J1	17S64	17S60	17S7u	17S-6	SM12	dDP
Fl Ndbe	44J1	24402S	246 2	24460u	24-442	SM12	dDP
Fl lr C.	12J1	27S67 7	22 26S6	22 210-	22 0S-u	SM7-	dDP
Fl lr C.	12J2	2006u	261	20u1S	202-	7M70	dDP
FENCl c p	7-J1	262 6 6	24u44u2	24-S074	2-21670	7M00	dDP
FENCl c p	7-J2	1- u4	1-7-	14624	1-722	4M44	dDP
FElCe dbe	-2J2	677-	61 -	662-	67u-	7M44	dDP
FCrl NT	- J2	-214	4 7u	-161	-1S4	2Mu	dDP
FCDDpl	67J2	S26	S S	277	116	1M16	dDP
&hPDlCPtbe	1-6J1	S	S	S	S	SM3S	dDP
&hPDlCPtbe	1-6J2	7	7	S	2	u6M0S	dDP
Ulr dbe	164J1	2	2-	-S	-6	6SM02	dDP
Ulr dbe	164J2	7S	17	20	27	70M1	dDP
Gl oCNl dbe	16SJ1	1Su	-u	1SS	u	7SM14	dDP
Gl oCNl dbe	16SJ2	110	1S0	170	12S	12M07	dDP
HCNe dbe	16-J1	076-24	u067S0	027- 2	00uuSu	SM10	dDP
HCNe dbe	16-J2	7 6S6Su	427-177	41S2 6	4S -0S	7M-	dDP
t. odbe	11-J1	024S -2	0126427	0S1 462	012u 46	1M-	dDP
t. odbe	11-J2	1020u	0-uu0	4-2S7	46122	7M1S	dDP
tlC.	-4J2	2-70u	246u7	24-00	24u0	1M0-	dDP
tlC.	-6J2	4467-4	4776-S	44S177	44SS4-	1M44	dDP
tlC.	-0J2	112u2	1S01S	1S S4	1S 6-	2M06	dDP
KlhDTC.	u7J1	262	2-1	2u1	26-	-M02	dDP
Lpl o	2S6J1	u 71	471	S70	177	2M	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 66B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 66	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12al sS4s2-	&l Tl Rdpamle pas	126LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	u-2-	u16	u1-7	u2u2	2M4	dDP
Lpl o	2SuJ1	702u7	7016S	76S4u	76u7S	1M-	dDP
LdEdbe	6J1	2406102	24267u7	2477742	244-2	1M1S	dDP
9l g. pPdbe	24J2	1S-44u	1S7S67	1S77 S	1S7 60	1M24	dDP
9l . gl . pPp	- - J2	17-0	14S7	17 0	17u6	1M12	dDP
9 CNr op. be	4J1	1u2uu	2S1 S	1 S7u	1 102	-M3S	dDP
9 CNr op. be	-J1	22u61	2722u	2770S	271-7	1M17	dDP
9 CNr op. be	6J1	2-u77	2-4 1	26260	2-u64	1M1S	dDP
9 CNr op. be	0J1	14204	1-12-	146SS	14666	2M7	dDP
9 CNr op. be	uJ1	7u7 6	76u-S	70706	70-4S	2M3	dDP
mpCohe dbe	1-SJ1	17	17	S		u6M1S	dDP
mpCohe dbe	1-SJ2	7	17	7	0	u6M1-	dDP
mdkpN	6SJ2	1477	14S7	1440	142u	1M-	dDP
3ECPDECIbP	71J2	12-	1SS	1-S	12-	2SM3S	dDP
3CTPPdbe	7 J2	0770	01-1S	0770	020-6	1M4u	dDP
y ECodbe	1S7J1	022u60	01SuS7S	024S4-4	01 27u0	1M32	dDP
y ECodbe	1S7J2	710u142	7766Su0	7167 40	7276S-	7M4	dDP
: dl . odbe	4-J1	40S22S4	46 600	460u14u	46 7747	SM2u	dDP
: dl . odbe	4-J2	17 706	14u1u2	141 10	1471-	7M10	dDP
: pNp. dbe	u2J1	uu-	u0-	0u2	u40	6M10	dDP
: pNp. dbe	00J2	2S	20	27	27	14M2	dDP
: pNp. dbe	0uJ2	7	11-	1S4	1S4	1SMu	dDP
: dNdC.	2uJ1	27 02-	270u4-	2767u1	270 u4	SM7S	dDP
: dNpl	1S0J1	12264	120u1	12764	1240S	2M2S	dDP
: dNpl	1S J1	1S 7S	1107S	11101	11200	7M64	dDP
: Codbe	27J2	2SS226	2SS62-	2S26uu	2S11uS	SM66	dDP
: TC. Tdbe	u6J1	76S	74S1	72SS	74S7	6M3S	dDP
: TC. Tdbe	uuJ1	20u0	2-772	240S6	2- 02	6M40	dDP
: bNbl	74J1	202727	20 S6S	2061-4	20-u46	1M27	dDP
Aplr dbe	1- J1	0-72 S	u-7407	uS 22	uS-771	SM1	dDP
Aplr dbe	1- J2	7uu1 44	411 6-S	4S200u6	4SS 0 7	2M	dDP
AEl Ndbe	2S7J1	1SS62	1S267	1S117	1S146	1M37	dDP
AEl Ndbe	2S-J1	24424	24-S0	24u66	24-	SM6	dDP
Ac	11uJ1	14Su	1710	110-	17SS	M34	dDP
AdT. dbe	40J1	0S6	6 7-	6 7-	6 uS	1M1S	dDP
5ll . dbe	27uJ1	772S7	770 6	7771	7747	SM4	dDP

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LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 66B:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&asa	LF: 66	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1 sS4s2-	&l Tl Rdpaml e pas	126LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	1S4u4	40	1S12S	1S1u4	2M6	dDP
YTpIr dbe	102J1	60	0-	u	-S	02M6-	dDP
YTpIr dbe	102J2	44	-6	2u	47	72M7	dDP
YTpIr dbe	106J1	1777	1277	1777	17SS	4M4	dDP
YTpIr dbe	106J2	1S747	11 S6	11422	11227	0M7	dDP
YTTdbe	u J1	17S S--	17Su6 4S	12 Su 60	17S2uu22	SM5	dDP
YTTdbe	u J2	12S S2u	17000 -	124-1S1	12007Su	6M6	dDP
Zc d	66J2	2624	266S	2-S4	2- 6	7M6	dDP
ZddC. dbe	SJ1	1-20-	1621u	14 77	1-406	4M5	dDP
ZddC. dbe	1J1	7S60	7726	7-S	77SS	6M2	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP usb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	2461: 42	2- : 01: :	2446- 14	24- h1h2	1M:	dDw
qCTb nCE	12171	1h0h	160h	2S60	1002	14N06	dDw
qpwr Ccd	0h72	6N: N	6621	6066	6062	2N8h	dDw
Bspcmb	1- h71	20- h1S	20N: 22	204N02	20h06N	1N82	dDw
Bspcmb	1- 071	4: 2110	4: 6S10	4Nh2- N	4: 1124	1M1	dDw
Br pEPRmb	: 71	11N4	11S2	11- 6	1141	- M1N	dDw
Bcwb mTG	2S: 71	hN6: 422	6- N2: - N	6: Nh01-	64126: 1	NM1	dDw
Bcwb mTG	2S: 72	- 1N6N: N	- 2- hN21	- - - 64S:	- 2h- S4-	2M4	dDw
Bpmb cCr	N171	h126	4Nh:	hSN4	hS2-	2NM6	dDw
5 sob cmb	1SN71	1- -	0h	60	: 2	- : M0-	dDw
5 sob cmb	1S671	- 1: 2	- 6S:	- : N4	- h: h	11N82	dDw
5 sob cmb	11171	hNN	060	60-	606	1- M2S	dDw
5 sPlcmb	4- 71	N46: S	N- 66:	N4S: 6	N41h2	SM61	dDw
5 sPlcmb	4471	1402N: :	14066h1	14: - 200	14NS: 42	SM0-	dDw
5 spenC	1271	20: : h0h	2N201hN	2NN2: h:	2N- 6h64	1M1S	dDw
5 spenC	1272	- 42: S	- 42h0	- 6SS-	- 4NhS	2NM0	dDw
5 GPmpcCr	- h71	1h414h- S	2S2642NS	2- h2- 6h2	1: 0- 41h4	2SM6N	dDw
5 GPmpcCr	- h72	1: - 0N4	2Sh- SN	21SSN2	2S- ShN	4M1-	dDw
5 Gpmb cmb	h272	1404h2	1440Nh	1462S:	14614N	SM11	dDw
5 nesPT	h: 72	1S42h2	1S4- - h	1S- S40	1S- N0N	SM6:	dDw
5 nDDr p	6- 72	20S4h2	201024	26: SN0	20S421	SM4:	dDw
&EwDpnwcmb	1h671	21S10	2S02h	214: -	21S0N	1MM4	dDw
&EwDpnwcmb	1h672	: 6N4	: 620	: h- S	: 614	SMM1	dDw
Fpecmb	16471	2166N	22100	2106N	21N01	1M2-	dDw
Fpecmb	16472	N- - -	N0: -	: SS-	N01S	- M4	dDw
HsonPCcmb	16S71	224: h	2242N	22661	22h2N	SM1-	dDw
HsonPCcmb	16S72	1S44N	11S0h	1S- 21	1S614	- MMS	dDw
KnPb cmb	16h71	N6114N1	: 10: 20h	1S- 42141	: - 006- 2	: M41	dDw
KnPb cmb	16h72	420NNSS	42: S641	4- 462S-	4- Sh21h	SMM4	dDw
tCocmb	11h71	611- : Nh	6h46Sh0	0- S2- 20	66h412-	: M84	dDw
tCocmb	11h72	: 6S146	: N6S4S	: : 2SNS	: 0: 422	1M0-	dDw
tpnC	h472	4: 02- N2	4: 04hh:	4: 001S4	4: 046N2	SM8h	dDw
tpnC	h672	: S2N2: - S	: S: 40: 00	: 1- hS004	: SN6Sh6S	SM1:	dDw
tpnC	h072	2- hhS40	2- 6S: 4N	2- 0S: : -	2- 62- 2:	SM4	dDw
gpEDTnC	N- 71	26S	- - S	2: S	2: -	11M0	dDw
Lr so	2S671	h4026	h4: N-	h44- 1	h401-	SM11	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4- - 7S4	tOwTpmb Or Tusb r J	8 N
5 Pr CTI sb DP t& J	9 ayq : 2	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP usb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	46N46	4h0- 1	44020	4h06N	2M12	dDw
Lr so	2SN71	21hNh0	21- N21	2126S0	214S: h	SM00	dDw
LdTGmb	671	2- S2h2N	24110N0	2h4N1SS	242SNSh	hMSN	dDw
9 sk Or wcmb	2472	- S0- 2N1	- S4: 446	- 1- N0- 6	- SN01h4	1M1S	dDw
9 sCksOr wr	hh72	11- h1- S	112: - - N	11- 26: N	11- 2- N:	SM26	dDw
9 nPEeor Cmb	: 471	11h02	11040	110Sh	1160h	SM0N	dDw
9 nPEeor Cmb	: h71	- 0h:	41S:	- : 10	- : 2N	4M46	dDw
9 nPEeor Cmb	: 671	hNh1	hNh1	61h2	h: h1	2M11	dDw
9 nPEeor Cmb	: 071	2- 42	260h	24: 2	2hS-	6M60	dDw
9 nPEeor Cmb	: N71	614-	6100	6600	6- - 2	4M02	dDw
u r noEb cmb	1hS71	2N116	2N1S-	20: 6:	2NS6-	SM2:	dDw
u r noEb cmb	1hS72	N64-	Nh: -	NN66	N0S1	1M60	dDw
u cdvr P	6S72	124S0:	126hh4	12- S- 0	124hh0	1M4h	dDw
8 GhwDGhpmw	- 172	21: 2	2410	2142	22hS	6M11	dDw
8 nTswwcmb	- : 72	1S- 01-	1S2: 16	1S- h0:	1S- 4S-	SM41	dDw
. Ghocmb	1S- 71	6140N- 0	66: hS: h	01410N2	6661h01	0M40	dDw
. Ghocmb	1S- 72	- 22- 0N:	- 2: 0N61	- - 40SS:	- 2N: hh-	1MN:	dDw
l dsCocmb	4h71	414: : : 4	44hN64h	4: hS: 20	4h1: Nhh	NM4	dDw
l dsCocmb	4h72	14: : 0h	1h1- 0-	1hS4hh	1hS6S1	SM40	dDw
l r PCcmb	N271	N1	71h	h4	4S	12- M2	dDw
l r PCcmb	0072	- -	h-	10	- 4	h- M2:	dDw
l r PCcmb	0N72	- 6	40	- -	- :	1: M36	dDw
l dPdnC	2N71	216: 2114	216: 01N6	21hhSh- 2	21646611	SMN	dDw
l dPr p	1S071	02h	02h	6N-	011	- MN	dDw
l dPr p	1S: 71	610	60h	hhS	614	1SM1:	dDw
l nocmb	2- 72	0101S	02: - h	02: : 2	02h46	1MSS	dDw
l TpnCTcmb	N671	NN4- :	NNN41	: SS2-	N: 1S1	SM2	dDw
l TpnCTcmb	NN71	0: : 6: 4	0N162:	00- 2S:	0N4N44	1M02	dDw
l mPVmp	- 471	26SN66	2h2261	2hSh0:	2h4h6:	2M10	dDw
Ar pecmb	1h: 71	N6- - 1- :	: 1- h626	1S2S- 211	: - 2- : : 2	NM6S	dDw
Ar pecmb	1h: 72	411- S44	4164S4N	422242h	4166hS6	1M1	dDw
AGsRPcmb	2S- 71	12SS	11- -	1- hS	122N	: MS4	dDw
AGsRPcmb	2Sh71	20: 2	2N: 2	20: 2	2N2h	2MS4	dDw
AdC	11N71	2: N4	- 10h	- 2h1	- 1- 0	4M:	dDw
AdSCcmb	4071	640N0-	6hN: 0N	6hh- h4	6h4S6N	SMN0	dDw
RpsCcmb	2- N71	- 42N:	- - 0S4	- 21hN	- - - N-	- MS	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP u sb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	142hS:	142242	14142N	142S6S	SM4S	dDw
YTTr pe omb	10271	641S	64h2	626N	6- 00	1M11	dDw
YTTr pe omb	10272	- SS6	- S60	- S0N	- ShS	1M2N	dDw
YTTr pe omb	10671	hS6N	h4h1	h2S1	h24S	- M02	dDw
YTTr pe omb	10672	1- 4: 6	1- 2Nh	142- 6	1- 602	- M6h	dDw
YTTpomb	N: 71	11N: Shh1	12- 1: 226	1- h4S6- 1	12hN- 46:	6MMS	dDw
YTTpomb	N: 72	14S- - h:	1- 6- 0S0	142h264	1- : 044-	2M4-	dDw
ZdCd	6672	- - 4h6	- 4- 22	- - h4-	- - 004	1M41	dDw
ZqpdnComb	: S71	2hN16	2h- 4N	26- SS	2hN22	1MM4	dDw
ZqpdnComb	: 171	h: Nh	hNh1	624-	6S26	- M1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4- - 7S	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y shd J2T	T8biqC. :MwOICI:a	1
Twip:A:coe p:dOobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMd8p:mwe p:a	12udF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . ql
d8be q dpe	2072	2- - 2260	2- 00JJ4	2- u2 -	2- 64201	1R1u	OI l
d. ioe C. E	12171	12Su	102	16 S	1 2u	1uR20	OI l
dll p. oO	0 72	6 0	6 41	6 Ju	6 66	SR4	OI l
Bwldpe	1- 71	260J- -	20S- 04	26Juuu	26J- JJ	SR4u	OI l
Bwldpe	1- 071	402JSJ	40- 214	40212S	40204u	SR12	OI l
BplE8dpe	J71	11- S	1S06	11 S	111J	- R41	OI l
Bdqe biG	2SJ71	60 1S21	6uJJu14	6J- 22	6u6211J	1R4-	OI l
Bdqe biG	2SJ72	- 2 S62	- - - 4604	- 26- u01	- 2u- S 6	1Ru	OI l
BlOe q p	u171	S06	S 1	404-	4J 0	- R0	OI l
9 wne dpe	1Su71	u-	J6	1S4	J4	11R11	OI l
9 wne dpe	1S671	- 026	- 6 J	- J42	- 006	- R12	OI l
9 wne dpe	11171	6- 1	61	J6	J6	R14	OI l
9 w8Odpe	4- 71	u161S	u- 02	u- JS	u2J0	1R4-	OI l
9 w8Odpe	4471	14u- u41	14u 4u4	14662uJ	140u - u	SR02	OI l
9 wlr C.	1271	200 SS1	2uS60JS	2u- 01	2uS u-	1RSu	OI l
9 wlr C.	1272	- - 6u1	- - - J0	- - 121	- - 4SS	SR14	OI l
9 G8Olq p	- 71	2- 202J4u	2uS6041-	- Su0uJJ	204S64 2	14RS-	OI l
9 G8Olq p	- 72	2- S4S	2- 12S	24- - -	2- 62J-	2R00	OI l
9 GlOe dpe	272	160S60	1666u6	16442S	166S u	SR16	OI l
9 Or w8	J72	1S6 22	1S - 2-	1S 44S	1S 062	SR62	OI l
9 Ot t pl	6- 72	262 10	262- 0u	26 061	26- 2	SR0-	OI l
TEl t lOl dpe	1 671	2S- 4J	2S6 S	2101u	2SJS6	- R44	OI l
TEl t lOl dpe	1 672	J120	J- 6-	u04-	JS0u	- R4	OI l
Ulr dpe	16471	2S060	21 S1	21- 10	211J	1RuS	OI l
Ulr dpe	16472	u006	u24J	u64S	u	- R2S	OI l
HwnO8q dpe	16S71	21- S1	22S20	214 J	21 J6	1R00	OI l
HwnO8q dpe	16S72	1S0 u	1S- 14	1S- J1	1S4uu	2R26	OI l
KO8e dpe	16 71	JJS	1SSS41 2	JJ4 2J	JJ 104	SR S	OI l
KO8e dpe	16 72	421 620	4- 4J00	41024 J	42406uu	2R2	OI l
& ndpe	11 71	6JJ- S1u	02J2664	020 6S1	01u0SJ4	2R 4	OI l
& ndpe	11 72	J664- u	Ju2JJJ	J - - 0	J606 u	1R -	OI l
&C.	472	S4 S0-	S1 21J	4JJ061S	S1J- S1	SR4u	OI l
&C.	672	J- 1uJ0- u	J11- 6S04	uJJ 2- J1	J1426S6u	1R0J	OI l
&C.	072	24116- 1	2- 414JS	2- - 1400	2- 61 - -	1Ru	OI l
glEt iC.	u- 71	200	2J1	- S1	2JS	4R11	OI l
Lpwn	2S671	22u-	- 61	240u	2004	1R S	OI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4- - 7S	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y shd J2T	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMt8p:mwe p:a	12udF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	420 4	4- 1	42uuu	4- S64	SR3J	CI l
Lpwn	2Su71	2S- 22S	2S6- S0	2S - S2	2S4J4-	SR00	CI l
LqiGdpe	671	2 - S2	26J S	266- 0	26- 020u	2R4-	CI l
y wk. pl dpe	2472	2JJ0S1J	- S2 422	- S2u 0-	- S10SS	SR u	CI l
y w. kw. pl p	72	111210	11S6- 4J	11S2SSu	11S6u44	SR46	CI l
y C8Er np. be	J471	11- 22	11J- J	124S6	11uuJ	4R 0	CI l
y C8Er np. be	J 71	4S- 4	4206	4226	410J	- R8	CI l
y C8Er np. be	J671	6- 00	61u	621u	626S	1R64	CI l
y C8Er np. be	J071	24u4	2u S	20SJ	26u1	6R3S	CI l
y C8Er np. be	Ju71	60 2	6020	6u6S	60uS	1R8	CI l
mpOnEe dpe	1 S71	206u2	2u6 u	20 0	20J02	2R1-	CI l
mpOnEe dpe	1 S72	uuSS	u 6J	u -	u641	1R6S	CI l
mqOvp8	6S72	124u2	122J2J	12- S24	12- J-	SR46	CI l
NGCI t GCIbl	- 172	220	21J2	2- 10	2261	2R42	CI l
NCiwl l dpe	- J72	1S- - 1S	1S16u-	1S1 uJ	1S21J4	SR3	CI l
F GCndpe	1S- 71	01- u- 06	0S44616	0S0S2	0Su4416	SR6u	CI l
F GCndpe	1S- 72	- 26Su0u	- - 4161u	- 2- Ju22	- 2uS002	1R64	CI l
DOw. ndpe	4 71	401S210	4u24 u	400S6- 0	406u401	1R2S	CI l
DOw. ndpe	4 72	1 S106	1 4012	14 u14	1 S2- 4	2R16	CI l
Dp8p. dpe	u271	J	1	16	- S	u- R8-	CI l
Dp8p. dpe	0072	40	- S	4S	- J	21R 0	CI l
Dp8p. dpe	0u72	- 2	- u	41	- 0	12R J	CI l
Dq8QC.	2u71	2S01uu60	2Su06626	2S644J11	2S046uS1	SR 0	CI l
Dq8pl	1S071	u-	0J2	6u-	6u6	1 R1J	CI l
Dq8pl	1SJ71	S	42	62	02	uR82	CI l
DOndpe	2- 72	02 0-	6J- - 2	0SJ 6	0SJ 4	2R2u	CI l
DilC. idpe	u671	u J1	u0uS1	u0uJ-	u02S-	1R2u	CI l
DilC. idpe	uu71	046166	04u S0	0 u- S0	0 SJJ-	SR46	CI l
Db8Vl	- 471	240 J6	2- JS21	2421 0	242J2	1R0J	CI l
cplr dpe	1 J71	J66J104	JJ 202J	1SSS- uJJ	Ju0 26u	1R4-	CI l
cplr dpe	1 J72	4S6u4u1	41466- J	4S64JJ	4SJ- - 02	1R1-	CI l
cGw8pe	2S- 71	J60	uSS	1Su-	J S	14R3J	CI l
cGw8pe	2S 71	26- 4	2110	24J2	2414	11R86	CI l
cq	11u71	26- 4	2JSS	2J10	2u10	R6	CI l
cqiw. dpe	4071	6 - - 6-	6 u1 J	641- 21	6 SJ4u	1R -	CI l
5 lw. dpe	2- u71	- 2460	- 2626	- 2u4-	- 264	SR u	CI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 - 4- - 7S	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T :a	y shd J2T	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMt8p:mwe p:a	12ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
hw. wndpe	172	144SS0	14Su42	14SJu6	141J4	1R26	Qil
Yiiplr dpe	10271	61S2	62u	62-	62S0	1R -	Qil
Yiiplr dpe	10272	- S- 4	2J61	- - 2-	- 1S6	6R1	Qil
Yiiplr dpe	10671	206	- 1	- 1	- 26	SRu1	Qil
Yiiplr dpe	10672	1- - 24	1- 424	1- 2S1	1- - 16	SRu4	Qil
Yiildpe	uJ71	12J S1S1	1- 26SS4	1- 2212u	1- 244SJ1	2R16	Qil
Yiildpe	uJ72	1- 16- S4	1444JSu	12uu6u0	1- 4JJ66	6R1u	Qil
Zq O	6672	- - 02-	- 4- - 2	- 406-	- 420-	1R 2	Qil
ZdlOC. dpe	JS71	24u2-	2 004	26 SJ	2 0S2	- R2J	Qil
ZdlOC. dpe	J171	6SS1	u26	6- 1S	6S46	4RS	Qil

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ab r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ub

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23O2	4- O661	4- 1366	426612	42: 6NO	OU6-	ql w
cR&b nRy	12101	- 7O	- 13	- - -	- - -	7UOO	ql w
cSvr RAq	37O2	12ON	12: N	121:	1242	- U7	ql w
BsSAmb	1- 701	712: O	7144O	71666	71467	OU3	ql w
BsSAmb	1- 301	N: 32-	: O271	: O6- 3	: O2O4	OU71	ql w
Br SyPAmb	: 01	23O	277	2: 4	23-	3U16	ql w
BAb m&a	2O. 01	63144- 4	6N47: 4:	63N1- : -	63NO7: 2	OU3	ql w
BAb m&a	2O. O2	- 22: - 36	- ON- 1- 3	- 16N6O7	- 16O- 3-	2U2	ql w
BSmb ARr	N101	- : 63	4O26	446N	4174	6U7N	ql w
Msob Amb	1ONO1	2:	- -	- N	- -	12U7O	ql w
Msob Amb	1O601	- : 63	- 613	- 436	- 6N3	6UN3	ql w
Msob Amb	11101	4N7	4O.	- N4	426	12U2	ql w
MsRqAmb	4- 01	1777O	17NO.	17N77	173- N	1UO7	ql w
MsRqAmb	4401	2N6- : 4	2N3: 46	2N: NOO	2NNO43	OU7:	ql w
MsSenR	1201	27: 14: 2	267766-	26- 2: 2N	26266: 4	1U24	ql w
MsSenR	12O2	- 1113	- O. N-	- O734	- ON: 1	OU2	ql w
MhPSRr	- 701	11O23: 7O	11273: 24	11ONN324	11124N66	1UO3	ql w
MhPSRr	- 7O2	37O3N	3- : - O	3- : 32	34- 23	OUNN	ql w
MhSmb Amb	72O2	2N137	2: 27O	2N362	2N32:	1UN3	ql w
MnesR&	7: O2	1: 7O-	1: NO4	1: 3OO	1: 66:	OU3N	ql w
MnI I r S	6- O2	72673	7161-	7247-	72241	1UO6	ql w
t ywl SnwAmb	1760 1	- 3: 2	4113	4263	4O7:	7U N	ql w
t ywl SnwAmb	1760 2	1N3-	16N3	1N3O	1N1O	7U O	ql w
FSeAmb	1640 1	4271	- 326	42O.	4O62	3U1:	ql w
FSeAmb	1640 2	1N23	17: -	1623	16N2	3U7O	ql w
GsonPARAmb	16O01	- 3N4	4O- 4	- 6N4	- N- 4	4U3O	ql w
GsonPARAmb	16O02	2O24	2O33	22- 4	2111	7U13	ql w
KnPb Amb	1670 1	: 47N: N7	: 44634O	: 6: : 177	: 7- 4: 6O	1U4:	ql w
KnPb Amb	1670 2	421O4- 3	4O44NO2	41O677-	412O7: 3	2UO-	ql w
DRoAmb	1170 1	6: 3N777	6: 6- 2- O	6: 74721	6: 674- 7	OU13	ql w
DRoAmb	1170 2	: 613ON	: 47- 47	: 4O74N	: 4: 2OO	1U13	ql w
DSmR	740 2	NN4476	N: : O4N	NN7761	NN: 6NN	OU1	ql w
DSmR	760 2	13263O4:	1371713-	13O626N1	132N16- 4	1U1	ql w
DSmR	730 2	4O4364	4O. 611	4ONN34	4O337O	OU64	ql w
gSyl &aR	N- 01	2N2	233	2N3	2N2	1U33	ql w
Lr so	2O601	11- N-	1O7- 2	11O44	1O. N6	- U O	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i A r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O301	: ON1	N63O	NN3O	NN34	2U2	ql w
Lr so	2ON01	4- 4: O	41NOO	4- O: 6	423: 7	2U03	ql w
LA&nAmb	601	27767N2	272ON: O	273O163	274: 21-	1U0O	ql w
HskRr wAmb	24O2	76- 2O6	76O- - :	76123:	7616ON	OU26	ql w
HsRksRr w	77O2	211O76	2126- 7	212: 7:	212213	OU4N	ql w
HnPyeor Rmb	: 401	2- 7:	2- : 2	2- 42	2- 64	1U0N	ql w
HnPyeor Rmb	: 701	: 42	NON	N7N	N6:	3U37	ql w
HnPyeor Rmb	: 601	11N-	12ON	11: 2	11: 7	1U03	ql w
HnPyeor Rmb	: 301	437	463	47N	463	1U3:	ql w
HnPyeor Rmb	: N01	11N-	1413	1- 13	1- O6	NUJ 3	ql w
ur noyb Amb	17O01	72N1	7- 21	7- 14	7- O6	OU4O	ql w
ur noyb Amb	17O02	137O	164-	131-	13O2	- U1N	ql w
u Aqvr P	6O02	24O: 3	2- : : O	24ON3	24O7N	OU27	ql w
8hnwl hnSmw	- 102	437	713	7OO	4: 3	4U22	ql w
8n&swwAmb	- : 02	2N2- 3	2N- 2N	23N11	2N127	OUJ N	ql w
EhnoAmb	1O- 01	3O1: N- 2	6N: 6131	3O2: : 4N	6: N1: N4	1U03	ql w
EhnoAmb	1O- 02	- 2: 4347	- 164742	- 161213	- 2O6N- 7	2U3	ql w
pqsRoAmb	4701	477O434	46N- 72-	46: 3: 71	464- : N-	1U37	ql w
pqsRoAmb	4702	14- : 3-	144O67	142274	14- 4- 1	OU31	ql w
pr P RAmb	N201	046	04	024	027	0N6U4:	ql w
pr P RAmb	3302	1O	1O	O	3	N6U6O	ql w
pr P RAmb	3N02	2O	2-	16	2O	13UN6	ql w
pAAqnR	2N01	4177243	41O1312	414- 1- 4	41- - - 67	OU6N	ql w
pAPr S	1O301	227	263	- ON	263	17U6-	ql w
pAPr S	1O: 01	2- -	2ON	2ON	213	6U66	ql w
pnoAmb	2- 02	- O7: :	2: 232	2N3N3	2: 77-	- U13	ql w
pSSnR&Amb	N601	13N3O	1311:	16372	13243	- UJ O	ql w
pSSnR&Amb	NN01	14- 661	14O66-	146- 61	14- 762	1UJ :	ql w
pmPVnS	- 401	2431- 1	242N6O	242N23	24423-	1U01	ql w
i r SeAmb	17: 01	: : 34162	: : O2NN-	: NO436:	: N: - : - N	OUN6	ql w
i r SeAmb	17: 02	41O7472	4O47O1-	4O2N44-	4O7: 6- 6	1U0O	ql w
i hsPAmb	2O- 01	- 63	- N-	4ON	- N6	7U4-	ql w
i hsPAmb	2O701	NOO	1O42	: N-	: 42	1- UJ :	ql w
i AR	11N01	1442	12- -	14- -	1- 3O	NU61	ql w
i A&sRAmb	4301	11: 4- N	121OO2	127274	121N: N	2U43	ql w
CSsRAmb	2- N01	6- 4-	64O2	7: 23	6224	4U16	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
9sRsoAmb	71O2	23O42	267- N	266NN	26376	OU3	ql w
Y&&SeAmb	13201	1263	1137	1237	12- :	4U4N	ql w
Y&&SeAmb	13202	7- -	7N:	3O6	6O:	14U4-	ql w
Y&&SeAmb	13601	1N37	1: 7O	1: N4	1: - 6	2UN3	ql w
Y&&SeAmb	13602	116- :	11432	11N- :	1167O	1U7N	ql w
Y&&SAmb	N: 01	126: 7122	1234617N	1- O46323	12N2: - - 6	1U4N	ql w
Y&&SAmb	N: 02	12: - 4N4	1- 2OO71	12614- 4	12: 1676	2U23	ql w
ZARq	66O2	6N12	64N7	646N	67NN	2U4	ql w
ZASqnRAmb	: O01	4: 71	7- 6N	7- 26	7217	4U4O	ql w
ZASqnRAmb	: 101	11- -	11- -	1O37	1114	- UO2	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2I	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdPP usb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	21Nh: - S	21h1016	22S620N	21N1- SN	1M26	dDw
qCTb nCE	12171	11- S: 1	11- NN2	11- : N2	11- 6h2	SM4-	dDw
qpwr Ccd	0h72	0- 06	0242	0102	026-	1M4-	dDw
Bspcmb	1- h71	04N: 04	0h121-	064206	0h4N21	1N8:	dDw
Bspcmb	1- 071	1- 24hNS	1- 466: -	1- hh66h	1- 42- 1-	1M1:	dDw
Br pEPPmb	: 71	16h6N	166- h	16h: 0	166SS	SM2S	dDw
Bcwb mTG	2S: 71	60h: : - 4	0SN201-	6: h6- - 0	6: - 2: : h	2Mh	dDw
Bcwb mTG	2S: 72	- 20Sh1-	- S: 1NN:	- 10241S	- 10N201	2NM1	dDw
Bpmb cCr	N171	46- 4	401N	4N1N	402-	1M4	dDw
5 sob cmb	1SN71	: 21	: 0:	11SN	1SS-	: M10	dDw
5 sob cmb	1S671	hSh1	h606	h1N4	h- S4	6M21	dDw
5 sob cmb	11171	142- 1	14S1:	14h- S	1426S	1MNS	dDw
5 sPdcmb	4- 71	06N4N	0N41-	001- 2	0046h	1N8N	dDw
5 sPdcmb	4471	1- 6- 4SS	1- h: NN2	1- NS2N4	1- 60Nhh	SMNS	dDw
5 spenC	1271	2h4h- N0	2h62- hh	2hN44h6	2h64S66	SM06	dDw
5 spenC	1272	- 1S: 2	- S: SS	- S0- -	- S: SN	SM1N	dDw
5 GPmpcCr	- h71	2160h: : 1	201SShhh	- S22- 64S	26- - - - : h	16M42	dDw
5 GPmpcCr	- h72	2- 2hh2	2- 6N41	244hSS	2- 0: 64	2M14	dDw
5 Gpmb cmb	h272	2: 4: 6S	2: hNh-	2: 410h	2: 4: : 6	SM2N	dDw
5 nesPT	h: 72	4226- 1	421206	414: 22	41: 61S	SMMN	dDw
5 nDDr p	6- 72	- 6- - 1S	- hNh: 2	- h44S0	- hN00S	1M24	dDw
&EwDpnwcmb	1h671	1: h0-	1: S- 1	2SSh0	1: hh4	2M0-	dDw
&EwDpnwcmb	1h672	N6NS	Nh6-	N6S-	N61h	SM0:	dDw
Fpecmb	16471	1: 0h0	1: : h0	1: 164	1: 626	2M1S	dDw
Fpecmb	16472	0: 2:	0NS2	0N16	0N4:	SMN:	dDw
HsonPCcmb	16S71	1: 6: N	2S02h	2S441	2S2NN	2M61	dDw
HsonPCcmb	16S72	: hS0	: 62S	: - - -	: 4N0	1M12	dDw
KnPb cmb	16h71	: N44140	1S61Sh46	1SS6N: : 0	1S104h6-	- MN0	dDw
KnPb cmb	16h72	420S2- S	- : 66: 6-	4S: 10S2	41S: 6- 1	- M01	dDw
tCocmb	11h71	0124- 10	06144N0	02N: 60S	0- 42N24	- M4S	dDw
tCocmb	11h72	: 04- : 1	: 1SS66	: 2- - h1	: - h: - 6	- M0-	dDw
tpnC	h472	h1212- 0	4: 42112	4: 1- 1N6	4: : 210N	2M26	dDw
tpnC	h672	N: : - 2S16	: S- Nh2: 6	NN- 1621-	N: h44hSN	1M21	dDw
tpnC	h072	2- 4S: h4	2- 1Shh0	2- - 40: -	2- 2N06N	SM0:	dDw
gpEDTnC	N- 71	- S2	- S0	20h	2: h	hM-	dDw
Lr so	2S671	6041:	6: hh-	600h4	6N242	1M0N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2l	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdPP usb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	h6S4:	h0612	h0- 1S	h6: : S	1M4h	dDw
Lr so	2SN71	264N6S	260N44	26hh42	266SN2	SM1:	dDw
LdTGmb	671	26- SS44	20: : 4- 2	202: 01h	201: 0- S	- M1-	dDw
9 sk Or wcmb	2472	2: SS20-	2NhS: 46	2NhSShh	2N60S: 1	1N3S	dDw
9 sCksOr wr	hh72	11Sh: 0-	1S: 2- 6S	1SN- : S1	1S: 4S0N	1N32	dDw
9 nPEeor Cmb	: 471	12- 4N	1- 14S	12h0-	126N0	- M22	dDw
9 nPEeor Cmb	: h71	h- 1N	6S26	hhS1	h61h	6M1h	dDw
9 nPEeor Cmb	: 671	0661	N20N	06S2	0N40	4M00	dDw
9 nPEeor Cmb	: 071	- : 26	- 042	- 610	- 062	4M12	dDw
9 nPEeor Cmb	: N71	: SN0	: h4h	N00N	: 1- 0	4M4-	dDw
u r noEb cmb	1hS71	2hN4h	24: 24	26S: :	2h62-	2M41	dDw
u r noEb cmb	1hS72	0N4:	066:	NS16	0N4h	2M21	dDw
u cdvr P	6S72	2S1h: 1	2S- NSh	1: : 14:	2S1h1h	1M16	dDw
8 GhwDGhpmw	- 172	21S:	1: 42	2S: 2	2S40	4M4N	dDw
8 nTswwcmb	- : 72	: 6666	: 2: hN	: 4N2S	: 4N14	1M16	dDw
. Ghocmb	1S- 71	6: S1614	06: 0: hN	01262S6	0241: 26	hM00	dDw
. Ghocmb	1S- 72	- 2hShh1	- 12141h	- 10S616	- 1NSN61	2M3h	dDw
I ds Cocmb	4h71	4N2N: 6h	h2S: h02	4: 642NN	hSSS: 42	- MN6	dDw
I ds Cocmb	4h72	14: 6: 1	141262	14- 6: -	144NN2	2M1:	dDw
I r PP Cmb	N271	2S06	2144	22N1	2160	4MN2	dDw
I r PP Cmb	0072	1S0	11S	: -	1S-	NM14	dDw
I r PP Cmb	0N72	244	24N	212	2- h	NM41	dDw
I dPdnC	2N71	1: 2hh41N	1: S6- 060	1N: NS1N4	1: S: : 0N:	SM04	dDw
I dPr p	1S071	6261S	6- N6h	6- N04	6- 4hS	1M1h	dDw
I dPr p	1S: 71	h: 41-	61hN:	61S0N	6S6: -	1MN0	dDw
I nocmb	2- 72	6h2S4	64141	64N4h	640- S	SMN4	dDw
I TpnCTcmb	N671	0: S0-	NS2NS	0: 2N4	0: h46	SMN1	dDw
I TpnCTcmb	NN71	6NSS- 1	60011S	60- 2- 2	6060: 1	SM1S	dDw
I mPVmp	- 471	2- h6S0	2- 6N0N	2- hh- 4	2- 6SS6	SM12	dDw
Ar pecmb	1h: 71	1SS- S- 0-	1SNN- 6- -	1S2N- 2- S	1S- : : S0N	4M21	dDw
Ar pecmb	1h: 72	41N446N	- : SNN6S	4S2- 010	4S- : S1h	- M4-	dDw
AGsPPcmb	2S- 71	hN6- -	h: 2: 4	h: 66-	h: 1: 6	SMMN	dDw
AGsPPcmb	2Sh71	14S642	142N14	1461- h	14- 1: 0	1M-	dDw
AdC	11N71	2N42	20SS	- SSS	2N4N	hM20	dDw
AdS Cmb	4071	6162- h	62h616	61: 0- 4	62Sh2N	SM06	dDw
RpsCmb	2- N71	- S40:	- S66-	- S001	- S6- N	SM4N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2l	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdP u sb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	20S- N6	2604N6	26N2N4	26N01:	SM16	dDw
YTTr pe omb	10271	h06S	h6h1	hhS1	h6- 0	2M1S	dDw
YTTr pe omb	10272	20hS	20N:	2: S6	2N1h	2MMN	dDw
YTTr pe omb	10671	4: 4-	hSN4	46h1	4N: -	4M12	dDw
YTTr pe omb	10672	1- 4S0	12: 0-	1- S4S	1- 14S	1M0N	dDw
YTTpomb	N: 71	1- 2044N6	141: - : - :	1- 461- S0	1- 64- 244	- M16	dDw
YTTpomb	N: 72	1- 14066	12- h4N6	12hh60S	126N641	- M2h	dDw
ZdCd	6672	62420	61- 02	6S: - 0	61h0:	1M24	dDw
ZqpdnComb	: S71	2hN4-	24- hh	2464N	24: 4:	- M16	dDw
ZqpdnComb	: 171	h4S1	hhh1	h: Nh	h646	hM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	2271- 4	2260u-	226474	226124	SRJ	CI I
d. iqe C. E	121 1	4406	4471	71- 4	46u0	uR20	CI I
dIl p. qO	07 2	122u	1214	12S6	1216	SR12	CI I
Bwldpe	1- 7 1	2SJ22J	2S0404	2S0116	2S0J4S	SR74	CI I
Bwldpe	1- 0 1	- 6J40S	- 60- 24	- 6u- u2	- 6u- J2	SR2J	CI I
BplE8dpe	J 1	2177	2277	21J0	22S2	2R2u	CI I
Bdqe biG	2SJ 1	7JSu7- 1	0SJJ22u	6J2- 006	664- u47	JR6u	CI I
Bdqe biG	2SJ 2	- 2460S2	- 470406	- 1u200u	- 2J7672	4R 6	CI I
BlCe q p	u1 1	7SS1	4JS1	476u	4u2-	4R01	CI I
9 wne dpe	1Su 1	J6	uu	7u	u1	24R47	CI I
9 wne dpe	1S6 1	- 6S1	41- 4	- J60	- JS1	0RSS	CI I
9 wne dpe	111 1	uuJ	u- 6	u4-	u76	- R 6	CI I
9 w8Cdpe	4- 1	41u070	41JJ01	414SJ1	4106S6	SR04	CI I
9 w8Cdpe	44 1	6Ju1- 6u	0- S7- 12	0SJ67Ju	012006S	2R S	CI I
9 wlr C.	12 1	- 1J14- 7	- 1u062J	- 1u74u1	- 1uu1u2	SRSJ	CI I
9 wlr C.	12 2	- 04u2	- u- J2	- u6u7	- u1u6	1R64	CI I
9 G8Clq p	- 7 1	2- - 61uS1	2010112J	2u64S626	26- J11u7	1SR 2	CI I
9 G8Clq p	- 7 2	21S120	22SJSS	222201	210066	- RS7	CI I
9 GlCe dpe	72 2	24JS7	2710J	24J- 2	27SS7	SR6S	CI I
9 Cr w8	7J 2	121S2	122u7	11Ju2	1212-	1R26	CI I
9 Ct t pl	6- 2	42- J-	421J-	4221J	4226u	SR26	CI I
TEl t ICl dpe	176 1	6- - 42	6- 07-	642- S	6- 007	SR0S	CI I
TEl t ICl dpe	176 2	27- J1	27444	270u2	277- J	SRu-	CI I
Ulr dpe	164 1	4- 764	421S1	42061	42uSJ	1R01	CI I
Ulr dpe	164 2	10124	16000	10- 6u	10SJS	1R04	CI I
HwnC8q dpe	16S 1	72J14	7SJS6	7S7S7	71442	2R71	CI I
HwnC8q dpe	16S 2	2- 66u	24J2-	24026	244- J	2R06	CI I
h C8e dpe	167 1	u60464-	J04- 210	1SS- 67u-	J4u4u14	0R76	CI I
h C8e dpe	167 2	41J0uJ7	47- J7SJ	41671Su	4- SSu- 0	4Ru2	CI I
& ndpe	117 1	6114077	0SS07- 0	02S40u2	60076J1	uR70	CI I
& ndpe	117 2	J67J77	1S- 41J4	J74701	Ju4JS0	4R 0	CI I
&C.	74 2	1117020	112614u	11126S7	111u16S	SR6-	CI I
&C.	76 2	214- u060	21Juu400	2106u62u	210- 1J70	1R20	CI I
&C.	70 2	7S72S7	717- 4-	721662	714S0S	1R61	CI I
KIEt iC.	u- 1	- 16	- 11	- 16	- 17	SR12	CI I
Lpwn	2S6 1	162Ju7	16- 77J	162- - -	162J7J	SR u	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	1- 4Su2	1- S4SS	1- S- 1S	1- 17J0	1R64	OI
Lpwn	2Su 1	6- 42u4	6- - 0S1	6- 2S44	6- - - 4-	SR1u	OI
LqiGdpe	6 1	2- S4600	27647- -	26- 002-	27S2- 11	6R1J	OI
y wg. pl dpe	24 2	uu1JSS	uJ- 24-	u6J1J-	uu1447	1R 6	OI
y w. gw. pl p	77 2	47207u	476- 76	4720u0	47- J60	SR46	OI
y C8Er np. be	J4 1	16S6u	1616S	16u00	16- 6u	2R01	OI
y C8Er np. be	J7 1	6SS1	611u	70u7	7J6u	2R14	OI
y C8Er np. be	J6 1	u6u6	uuu6	J20u	uJ7S	- R 6	OI
y C8Er np. be	J0 1	4S26	- 0SJ	4S71	- J2u	4R17	OI
y C8Er np. be	Ju 1	JJ0J	JJJ7	J62S	Ju67	2R17	OI
mpOnEe dpe	17S 1	114061	11- 7u4	11S21S	112u72	2RSJ	OI
mpOnEe dpe	17S 2	- 4224	- 4104	- - J2-	- 41S0	SR40	OI
mqOkp8	6S 2	6422	67S7	670u	67S2	1R21	OI
NGOI t GOIbI	- 1 2	16SS	17J2	10Su	16- -	- R1J	OI
NOiwI dpe	- J 2	101614	10012J	104007	1047S6	1R7J	OI
FGOndpe	1S- 1	614JJ42	010- J7J	016040-	6u- S47u	uR6-	OI
FGOndpe	1S- 2	- 2712u6	- 717666	- 24S27J	- - - 70- 0	4R60	OI
DOw. ndpe	47 1	- JSJ04u	4766uu1	401S- 16	4- J764u	JR01	OI
DOw. ndpe	47 2	1470uu	17770S	142774	140J01	4R7u	OI
Dp8p. dpe	u2 1	01	J1	111	J1	21R12	OI
Dp8p. dpe	00 2	14-	u0	11-	114	24R00	OI
Dp8p. dpe	0u 2	1S-	uJ	J6	J6	0R2J	OI
Dq8qC.	2u 1	07706uJ	0- J26u1	047u6Ju	046J6JS	1R1	OI
Dq8vpI	1S0 1	1SSu	1107	1160	1110	uR41	OI
Dq8vpI	1SJ 1	JSS	12- -	1107	11S-	16R14	OI
DOndpe	2- 2	7- u7u	77J7u	74uJ6	74JS4	1R1	OI
DiIC. idpe	u6 1	u22SS	u2JS4	uSJ4-	u2S16	1R21	OI
DiIC. idpe	uu 1	6Ju772	0S0S2-	0S- 2- 7	0S2J- 0	SR6S	OI
Db8bI	- 4 1	206677	2J10u0	2JJJ17	2uJ472	4RSu	OI
cpIr dpe	17J 1	u00- 4u7	1S11404-	1S244220	J01Su1u	uR J	OI
cpIr dpe	17J 2	4226u6S	442- 0uS	412706-	427uuS1	- R76	OI
cGw8dpe	2S- 1	147u	17- -	17u-	1727	4R1-	OI
cGw8dpe	2S7 1	- 1u4	- 471	- 471	- - 62	4R7u	OI
cq	11u 1	2644-	26S27	20161	2674-	2R16	OI
cqiw. dpe	40 1	- 22424	- 2040J	- 2- 1- -	- 24- 47	SR14	OI
5 Iw. dpe	2- u 1	4- J- 7	4616u	44211	44001	2R02	OI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	2SS64	2S617	2S6J7	2S47u	1R3u	Ol l
Yiiplr dpe	102 1	12u67	1220-	11JJ0	12- 0u	- R7u	Ol l
Yiiplr dpe	102 2	7u71	6SS0	7046	7u6u	2R24	Ol l
Yiiplr dpe	106 1	J4u0	J147	J20S	J- S1	1Ru6	Ol l
Yiiplr dpe	106 2	172- 0	16Suu	17u67	170- S	2Ru1	Ol l
Yiildpe	uJ 1	1161J107	1- 44SJ62	1- u02121	12J0041J	JR21	Ol l
Yiildpe	uJ 2	14211- 2	14J2- 4u	1- 24440	1412642	7R10	Ol l
Zq O	66 2	- 0u04	- 066-	- uS7u	- 0u67	SR72	Ol l
ZdlOC. dpe	JS 1	- 42u4	- 40u6	- 7SJ7	- 4022	1R1u	Ol l
ZdlOC. dpe	J1 1	04u6	00u6	0JJ4	0077	- R S	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S7	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8biqC. :MwOICI:a	1
Twip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMd8p:mwe p:a	1- 2dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	221J64	222464	21J4u1	221- S-	SR02	Ot I
d. iqe C. E	121 1	42SJ	4006	46S1	472J	6R41	Ot I
dIl p. qO	07 2	1264	1240	12- S	1240	1R 6	Ot I
Bwldpe	1- 7 1	2SS410	2S- JJ1	2S2- - S	2S2246	SRuu	Ot I
Bwldpe	1- 0 1	- 7J7- u	- 64424	- 61160	- 6101S	SR6J	Ot I
BplE8dpe	J 1	2124	2104	2110	21- u	1R44	Ot I
Bdqe biG	2SJ 1	6u7- 474	01S417-	0S- u21S	6JJu6S6	1Ru6	Ot I
Bdqe biG	2SJ 2	- - 447- S	- - 12606	- - - u6- 6	- - - 1J40	SR71	Ot I
BIOe q p	u1 1	4J7J	404-	717J	4J74	4R21	Ot I
9 wne dpe	1Su 1	127	1S4	1- -	121	12R4-	Ot I
9 wne dpe	1S6 1	417J	- Ju4	4126	4SJS	2R20	Ot I
9 wne dpe	111 1	J16	uJ6	u67	uJ2	2Ru0	Ot I
9 w8Odpe	4- 1	41SS- S	416424	41744S	41- J67	SRu-	Ot I
9 w8Odpe	44 1	6uJ7- 7J	01uJ7- 2	6JJ7027	0S26u02	2R1-	Ot I
9 wIr C.	12 1	- 10SJ1-	- 17S2S-	- 167076	- 1622JS	SR 4	Ot I
9 wIr C.	12 2	- 07JJ	- 0J41	- 0J7u	- 0u- -	SR74	Ot I
9 G8Clq p	- 7 1	2- - 2uSS2	26J717- 2	2J226241	267S1J27	11R22	Ot I
9 G8Clq p	- 7 2	21uSS0	210S24	22414u	21J026	1R06	Ot I
9 GIOe dpe	72 2	2712J	2716J	24S60	240uu	2R72	Ot I
9 Or w8	7J 2	1210J	12SJ2	116J7	11Juu	2R17	Ot I
9 Ot t pI	6- 2	41470	4102u	4S661	412u2	1R 4	Ot I
TEI t IOI dpe	176 1	6S- 0S	6164-	61Su2	61S- 2	1RS4	Ot I
TEI t IOI dpe	176 2	27274	24uSS	240- -	24J2J	1R14	Ot I
UIr dpe	164 1	42S06	42- 26	42106	421J-	SR S	Ot I
UIr dpe	164 2	16640	160- 0	160- 0	160S0	SR 1	Ot I
HwnO8q dpe	16S 1	7S- - 0	7S04u	7S740	7S744	SR41	Ot I
HwnO8q dpe	16S 2	2- 067	2- Ju7	2- 7S4	2- 071	1RS1	Ot I
h O8e dpe	167 1	JJ0u4- 1	1S1722SS	1S2SS67u	1S11S4- S	1R16	Ot I
h O8e dpe	167 2	44S4J4-	4- 2740u	4- 4- J7S	4- 7u124	SR37	Ot I
& ndpe	117 1	0- - S- 2u	074JJ- J	0- - 7- u1	04S7216	1R6J	Ot I
& ndpe	117 2	JJ1- u2	Ju- 4JS	J00- u6	Ju4Su6	SR01	Ot I
&C.	74 2	11SJ61-	11S0- 24	11SSu- S	11S7J22	SR41	Ot I
&C.	76 2	2140727S	2171J172	21410S70	2140S4u6	SR24	Ot I
&C.	70 2	7Suu04	7S426S	7S70- 6	7S62JS	SR40	Ot I
KIEt iC.	u- 1	- 62	- 27	- 24	- - 0	6R7-	Ot I
Lpwn	2S6 1	1701J2	17Ju4u	176J12	170Ju4	1RS-	Ot I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S7	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMt8p:mwe p:a	1- 2dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	126702	12J1J7	12u6u-	12u17S	1R8J	CI I
Lpwn	2Su 1	61- J6S	6222uS	61uS76	61uSJJ	SR60	CI I
LqiGdpe	6 1	27u4461	27J2717	26J62J0	2624424	2R u	CI I
y wg. pl dpe	24 2	uuSu62	u6JS14	u7662J	u6uu- 7	1R J	CI I
y w. gw. pl p	77 2	47- 60S	472SJJ	47274u	472002	SR1u	CI I
y C8Er np. be	J4 1	16120	1641u	167J4	16- uS	1R44	CI I
y C8Er np. be	J7 1	7J6S	6- 00	70u7	6S4S	7R8-	CI I
y C8Er np. be	J6 1	u444	JS0S	u00S	u061	- R70	CI I
y C8Er np. be	J0 1	- 060	- 006	- 771	- 6Ju	- R47	CI I
y C8Er np. be	Ju 1	Ju2S	JJ- 0	J674	JuS4	1R47	CI I
mpOnEe dpe	17S 1	111J70	111J6-	11S106	111- 66	SR12	CI I
mpOnEe dpe	17S 2	- - 70J	- 4204	- - - 2u	- - 020	1R47	CI I
mqCkp8	6S 2	67S7	676u	621u	64- S	2R1S	CI I
NGCI t GCIbI	- 1 2	16- -	16- -	1727	17J0	- R12	CI I
NCiwI I dpe	- J 2	107S4S	101uJ2	16JuSS	102244	1R7-	CI I
F GCndpe	1S- 1	0S6- JS7	04666JS	0- - Ju11	02JS1- 7	2R12	CI I
F GCndpe	1S- 2	- 4S1S07	- - u70Su	- 202S20	- - 72J- 0	2R1S	CI I
DOw. ndpe	47 1	4011S0-	4u62J01	4u0- - 70	4u17uSS	1R1J	CI I
DOw. ndpe	47 2	17S7SS	14JuS2	146u46	14JS4J	1R S	CI I
Dp8p. dpe	u2 1	- -	44	74	4-	24R7-	CI I
Dp8p. dpe	00 2	14-	1SS	110	12S	1uR22	CI I
Dp8p. dpe	0u 2	u2	66	u4	00	12R06	CI I
Dq8qC.	2u 1	01JJ4S1	047002S	04- 2064	0- 6- 2J7	1R14	CI I
Dq8vpI	1S0 1	1127	1SSS	1110	1Su1	6R40	CI I
Dq8vpI	1SJ 1	11SS	u42	J7u	J60	1- R u	CI I
DOndpe	2- 2	7- 102	720- 0	7- Su1	72JJ0	SR4-	CI I
DiIC. idpe	u6 1	u1120	0u42S	0JS4J	0J7- 2	1R0u	CI I
DiIC. idpe	uu 1	6u12- J	6J041u	60064S	6u74- -	1R74	CI I
Db8bI	- 4 1	2J6207	2JJ10u	- S12J-	2JuJ17	SR14	CI I
cpIr dpe	17J 1	1S1604SS	1S4611u2	1S471J- 7	1S- 6S102	1R61	CI I
cpIr dpe	17J 2	42- 1221	4246112	42S4u72	4220- J7	SR4J	CI I
cGw8pe	2S- 1	1410	1- Su	14Su	1- 0u	4R u	CI I
cGw8pe	2S7 1	- 6u4	- 1u4	- 426	- 4- 1	0R2J	CI I
cq	11u 1	27J42	24064	27167	272J1	2R 0	CI I
cqiw. dpe	40 1	- 1u- 1J	- 2004u	- 1J- 0S	- 21u12	1R61	CI I
5 Iw. dpe	2- u 1	4- 010	44746	44SJ4	4411J	SR14	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S7	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMt8p:mwe p:a	1- 2d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	2S772	1Ju1S	2S4S7	2S276	1R14	Ol l
Yiiplr dpe	102 1	1224u	11u- 1	124uJ	121uJ	2R0-	Ol l
Yiiplr dpe	102 2	7J1-	7J1u	764S	7u24	2R0-	Ol l
Yiiplr dpe	106 1	J247	uu0u	u611	uJ12	- R70	Ol l
Yiiplr dpe	106 2	17SSJ	1720S	17u17	17- 67	2R3u	Ol l
Yiildpe	uJ 1	1- 40- 412	14144u47	14S6- 44J	1- uJ- JS2	2R34	Ol l
Yiildpe	uJ 2	14u671S	146u41J	1- 6- 24u	14- J- J2	4R32	Ol l
Zq O	66 2	- 060-	- 011J	- 6uJ1	- 022u	1R3u	Ol l
ZdOC. dpe	JS 1	- - 24S	- 4u11	- 20uJ	- - 61-	- R16	Ol l
ZdOC. dpe	J1 1	uS61	uS61	0u00	uSSS	1R 2	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Uo

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23X2	4- : - 4	4442-	44ON1	44146	OU03	ql w
cR&b nRy	121X1	: 0O	: 0O	1O- -	: 3N	4U2	ql w
cSvr RAq	30X2	241	203	2- O	24-	0U0:	ql w
BsSAmb	1- 0X1	41- N1	- : 4ON	- : 063	4O11:	2U3-	ql w
BsSAmb	1- 3X1	6363N	3O120	3O66N	6: 4: O	2U2:	ql w
Br SyPAmb	: X1	4: 4	44O	4N1	432	0U6	ql w
BAb m&a	2O. X1	6: 41444	6: : - - 16	63NNO. 3	6: O361:	1U04	ql w
BAb m&a	2O. X2	- 230O63	2NN2: O.	- 2- O. 32	- 12: 64:	6UN6	ql w
BSmb ARr	N1X1	4026	4236	4401	4413	2U1	ql w
Msob Amb	1ONX1	04	- N	21	- N	44U40	ql w
Msob Amb	1O6X1	41O1	- : - 4	4OO.	4O10	2UON	ql w
Msob Amb	111X1	46N	430	04O	4: 0	NUO6	ql w
MsRqAmb	4- X1	3: : 32	N1ON0	N10N2	NONNO	1UO2	ql w
MsRqAmb	44X1	141: 2- 2	1422N4:	141- - - :	141N43-	OU4	ql w
MsSenR	12X1	26- N6: 0	2622210	266O. 26	264O612	OU34	ql w
MsSenR	12X2	- O4: 1	- 1263	- 1O42	- O. - -	1U2:	ql w
MhPnSRr	- 0X1	1122O4: 6	11- 1: 0N4	11- - 1NON	112: O62:	OU04	ql w
MhPnSRr	- 0X2	34- : :	31340	3O4NO	322ON	2U33	ql w
MhSmb Amb	02X2	0330	0: 0N	0N: N	0N33	1U0:	ql w
MnesR&	0: X2	264O	2434	2264	240:	3U6N	ql w
MnI I r S	6- X2	: O0-	: 23O	N3- :	: O21	2U6	ql w
t ywl SnwAmb	106X1	11614	12O06	1223-	11: N1	2UNO	ql w
t ywl SnwAmb	106X2	4: : 4	4: - 1	0O- 1	4: N0	1UO2	ql w
FSeAmb	164X1	NOO-	3: - 6	3: : 4	3: 3N	OU46	ql w
FSeAmb	164X2	- - : O	- 203	- 413	- - 00	2U06	ql w
GsonPARAmb	16OX1	1OOO4	: N2:	: 0- 3	: 3: O	2U41	ql w
GsonPARAmb	16OX2	43- N	4: : N	4324	4N2O	- U2O	ql w
9nPb Amb	160X1	: 66124-	: : 32301	: : 1- 60N	: N4: 213	1U6N	ql w
9nPb Amb	160X2	424336N	- 3O3- O3	41N6- 6N	4O4314N	3U1	ql w
DRoAmb	110X1	311646:	3262- : 0	3- : - 21N	3203- 61	1U1	ql w
DRoAmb	110X2	: 6: 040	N431: 4	: 03: 4O	: 24N: -	3U O	ql w
DSmR	04X2	21N142	221N- N	22O- : 0	22O120	OUN0	ql w
DSmR	06X2	4- 410N2	4- 4104:	4233: O1	4- 2O- 44	OUN0	ql w
DSmR	03X2	1O1- - 1	1O2410	1O12O1	1O164:	OU66	ql w
KSyl &aR	N- X1	2: 2	261	23O	230	0UN3	ql w
Lr so	2O6X1	- 1632	- 23ON	- 12: :	- 1N: -	2U2:	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9 O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O3X1	20: 26	20: : -	2020N	20326	1U0N	ql w
Lr so	2ONX1	12- ONO	126221	122112	12- NO4	1U34	ql w
LA&nAnb	6X1	2026242	200N- 63	20O4- 3-	202: 661	1UO3	ql w
HsgRr wAnb	24X2	16: 306	130O40	134O60	132: 00	1U6-	ql w
HsRgsRr w r	00X2	N: 1- :	N: O. -	NN303	NN: : 6	OU2-	ql w
HnPyeor Rmb	: 4X1	2N: 2	- 263	- 2- 4	- 1- 1	6U6-	ql w
HnPyeor Rmb	: 0X1	14N-	1O42	1242	1206	13U62	ql w
HnPyeor Rmb	: 6X1	1642	1320	100N	1642	0UON	ql w
HnPyeor Rmb	: 3X1	N20	363	630	306	1OUO1	ql w
HnPyeor Rmb	: NX1	2120	1613	1342	1N2N	14U4:	ql w
u r noyb Anb	10OX1	21244	21O03	21- 64	21222	OU3-	ql w
u r noyb Anb	10OX2	663N	66NN	6622	666-	OU04	ql w
u Aqkr P	6OX2	1- N-	1- 1O	1203	1- 13	4UN-	ql w
8 hnwl hnSnw	- 1X2	420	40O	4OO	420	0UNN	ql w
8 n&swwAnb	- : X2	423N:	41- 1N	4- 24O	4244:	2U3	ql w
EhnoAnb	1O- X1	3O. 6- 03	32: N2NN	3- N33- 0	326O3: -	2UO6	ql w
EhnoAnb	1O- X2	- - 0133O	2N44N0-	- 213041	- 1- NO00	NU3	ql w
pqsRoAnb	40X1	43O6O4:	431O360	464111O	46N0: 30	OUN-	ql w
pqsRoAnb	40X2	143332	123616	144O2:	1- : NO6	3U63	ql w
pr P RAnb	N2X1	O	24	2O	10	N3U00	ql w
pr P RAnb	33X2	13	2-	1-	1N	2NU64	ql w
pr P RAnb	3NX2	23	- 4	2:	- O	12UO2	ql w
pAAqnR	2NX1	1623N6:	161NN: 1	103O. O.	16O0N: O	1U1	ql w
pAr S	1O3X1	- 0O	- 63	- 0N	- 0N	2U-	ql w
pAr S	1O. X1	2: 2	2: 2	263	2N-	0UO.	ql w
pnoAnb	2- X2	2436-	20ON:	24N1-	24NNN	OU3O	ql w
p&nR&Anb	N6X1	106O.	10642	10626	10626	OU11	ql w
p&nR&Anb	NNX1	1- 6- N:	1- 0240	1- 403:	1- 04O4	OU6N	ql w
pmPmS	- 4X1	- OO3: 2	- O1- N6	2: : - 21	- OO4: :	OU0	ql w
i r SeAnb	10: X1	: : OO- : :	1O2120- 2	: : : 32N1	1OO- 63- 3	1U0:	ql w
i r SeAnb	10: X2	41N44- 2	- 62- O10	4O0: 0O2	- : 0060O	3U40	ql w
i hsPAnb	2O- X1	4OO	0- -	430	46:	14U24	ql w
i hsPAnb	2O0X1	1O0O	1ON-	: 63	1O- -	0UN2	ql w
i AR	11NX1	02N0	006O	6O1N	0621	6U0:	ql w
i A&sRAnb	43X1	62061	6- 4- -	62O1O	6266N	1U14	ql w
CS&RAnb	2- NX1	N43O	N011	N- N6	N406	OU30	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ab r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Ub

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
VsRsoAmb	01X2	4161	4O64	- : 41	4O00	2U32	ql w
Y&&SeAmb	132X1	2442	23O.	2613	20N:	0U2-	ql w
Y&&SeAmb	132X2	11: 0	1163	122N	11: 6	2U06	ql w
Y&&SeAmb	136X1	2N30	- O0:	23- 4	2NN:	0U64	ql w
Y&&SeAmb	136X2	126: 0	11166	11316	11N0:	6U0-	ql w
Y&&SAmb	N: X1	1- ONONO6	1- 4O6230	1- 262- NO	1- 24: N2O	1U2-	ql w
Y&&SAmb	N: X2	1- O01: 6	1143O60	12NO2: 2	12441N4	6UN-	ql w
ZARq	66X2	3042	344:	3- 42	3444	1U4	ql w
ZASqnRAmb	: OX1	6N44	32- 0	3233	311:	- U6	ql w
ZASqnRAmb	: 1X1	1- 30	100O	140N	1461	0U:	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t N:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t N:&T:a	y h SMsSD	T dbiqC. :M CICI:a	1
TI ip:A:cqe p:dCobdpn:a	2S2- S0 12:1Ja2sa11	TI il MdN:mI e p:a	1- 4dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	22Ss- S	221JSs	221JS4	221740	SR2s	CI P
d. iqe C. E	121 1	1146sS	117- 0s	11J- - 6	116464	2R16	CI P
dIPp. qO	07 2	2- 66	2- - 2	2- 2S	2- 4S	1RS2	CI P
BI dpe	1- 7 1	0SS41J	0S2- S4	0- 20- J	011s21	2R77	CI P
BI dpe	1- 0 1	126S6J-	1241J74	12J7s22	1266176	2R16	CI P
BpIENdpe	J 1	10J1S	1070-	1s1- -	10s02	1R7s	CI P
BqPe biG	2SJ 1	6s14- 46	070J7- 0	70627- -	601ssS7	1- R7s	CI P
BqPe biG	2SJ 2	- - 7J107	- - - 6024	- 2S1J70	- 2JJ2s7	2R7s	CI P
BICe q p	s1 1	71SJ	7S71	7S06	7S0J	SR7s	CI P
9 I ne dpe	1Ss 1	1S1-	11Ss	1127	1Ss2	7R61	CI P
9 I ne dpe	1S6 1	741S	7J1s	40S1	7- 4-	11R44	CI P
9 I ne dpe	111 1	14s16	1402s	174s-	17SSJ	2R07	CI P
9 I NCdpe	4- 1	4S6107	- J06s2	414JJJ	4S62s7	2R1-	CI P
9 I NCdpe	44 1	6JsSs1J	67J- - S2	0SS2ssJ	6s7JSS-	- R6	CI P
9 I Ir C.	12 1	2000JJ4	2s0ss11	2ss- - 10	2s460S0	2RSJ	CI P
9 I Ir C.	12 2	- 4S70	- 4766	- - 064	- 412J	1R1J	CI P
9 GNCIq p	- 7 1	2S7- 4- 72	272SJ070	2s076710	24s- - 742	16R61	CI P
9 GNCIq p	- 7 2	222- 2J	2277S2	2- - sS6	220212	2R61	CI P
9 GICe dpe	72 2	J2- 46	J1J60	J- 22s	J2714	SR0S	CI P
9 CrI N	7J 2	- - 72s4	- - 6Sss	- - - J7s	- - 711S	SR 2	CI P
9 Ct pI	6- 2	1746S2	17- 61-	174J26	174- sS	SR44	CI P
TEPtICPdpe	176 1	700- 4	7660J	7J2S0	70s0-	2R1J	CI P
TEPtICPdpe	176 2	2- - J0	2- S7-	22J46	2- 1- 2	1RS2	CI P
UIr dpe	164 1	4SS7-	- 001-	- JJ0s	- J24s	- R J	CI P
UIr dpe	164 2	176s-	1742J	17sS6	176- J	1R2-	CI P
HI nCNqdpe	16S 1	401J-	47J02	7S2- 0	40sS1	4R6S	CI P
HI nCNqdpe	16S 2	22- 6J	21Js2	2100s	22S4-	1R 6	CI P
h CNe dpe	167 1	J6S2- - 1	1SJJ6666	s200164	J627- s0	14R1-	CI P
h CNe dpe	167 2	4- - 4S60	4227474	41- 6400	42- 1JJJ	2R 4	CI P
& ndpe	117 1	0SJJ04S	0s- - J02	7JSJ671	6J400ss	1- R1s	CI P
& ndpe	117 2	Jss1- S	JJ1607	J- J40S	J0- SJ2	- RSS	CI P
&C.	74 2	1SS7J07	JJJsJ0	JJsSs7	1SS1- 1J	SR41	CI P
&C.	76 2	1J7J1762	1J46- - 6-	1J- s4- 62	1J40J062	SR74	CI P
&C.	70 2	46- SJ0	47s- - 7	47J- s2	46S201	SR74	CI P
KIEt iC.	s- 1	2s2	- 42	- 4J	- 27	11R20	CI P
LpI n	2S6 1	100SSJ	100717	1s4s42	10J0sJ	2R44	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t Np:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t Np:&T:a	y h SMsSD	TdNiqC. :M CICI:a	1
TI ip:A:cqe p:dCobdqpn:a	2S2- S0 12:1Ja2sa11	TI il MdNp:mI e p:a	1- 4dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	147- 1J	14721s	14JJ0S	146s- 6	1Rs7	CI P
LpI n	2Ss 1	6J- 1S6	6s6417	014sS1	6Js1S0	2R1-	CI P
LqGdpe	6 1	274S472	20720- 1	21J6S44	24J64SJ	11R27	CI P
y I g. pPdpe	24 2	s6S2SS	s7s- 67	s4J041	s761S2	SR67	CI P
y I . gI . pPp	77 2	4J0012	7SS11s	4JJsJJ	4JJ24-	SR20	CI P
y CNEr np. be	J4 1	17ss7	14727	17- 10	17242	4R4s	CI P
y CNEr np. be	J7 1	7SSJ	40S1	4071	4s2S	- R4-	CI P
y CNEr np. be	J6 1	0244	0200	0420	0- 16	1R 4	CI P
y CNEr np. be	J0 1	- 1SS	2s60	2J7S	2J0-	- R1s	CI P
y CNEr np. be	Js 1	0044	00s6	sS- 6	0s77	2RS1	CI P
mpOnEe dpe	17S 1	1S- 7S-	1S167S	1S- J12	1S- S21	1R10	CI P
mpOnEe dpe	17S 2	- 126S	- 1S- J	- S61s	- SJ0-	1RS7	CI P
mqCkpN	6S 2	J7617	J7642	J4J04	J7411	SR4S	CI P
uGCPt GCIbP	- 1 2	1sSS	10SS	10- -	1047	2R12	CI P
uCIl PPdpe	- J 2	164S06	162661	1647s4	16- 004	SR61	CI P
FGCndpe	1S- 1	600S27S	0s17726	7JSJ7SS	6s- 107J	1- R10	CI P
FGCndpe	1S- 2	- - 66S10	- - 7J226	- 2s1- - s	- - - 7720	1R41	CI P
DCI . ndpe	47 1	4614011	7126206	- 0J0140	4712012	14Rs6	CI P
DCI . ndpe	47 2	17S4- 6	14s020	14- 726	14076-	2R44	CI P
DpNp. dpe	s2 1	2220	2107	2226	221S	1R 6	CI P
DpNp. dpe	00 2	140	1sS	1JS	102	1- R10	CI P
DpNp. dpe	0s 2	271	270	2s-	264	6R47	CI P
DqNC.	2s 1	JSsJ4s-	JS0s- 0J	J62S74J	J262sS-	- R 7	CI P
DqNpI	1S0 1	607s-	66Ss-	60- 67	60S1S	1R21	CI P
DqNpI	1SJ 1	6- 4sS	61J67	6- Js2	6- 142	1R36	CI P
DCndpe	2- 2	6470s	674S0	6- S12	64- - 2	1RsJ	CI P
DiIC. idpe	s6 1	062- -	0- 00J	0627S	07421	1RsJ	CI P
DiIC. idpe	ss 1	6620s2	641670	6741S1	672s40	1R6-	CI P
DbNbI	- 4 1	- Ss44-	- S0271	- 1- Ss2	- SJ7J2	1RSS	CI P
cpIr dpe	17J 1	J0sSs16	1112J0JJ	s4Ss771	J00- S77	1- R12	CI P
cpIr dpe	17J 2	42S- s4s	414026S	- J0J- 0-	411S16S	2Rs4	CI P
cGI NNpe	2S- 1	6S442	6SSJJ	6- 017	6141s	- R27	CI P
cGI NNpe	2S7 1	146S11	14- s2J	14J144	146- 2s	1Rs-	CI P
cq	11s 1	11- ss	11S40	1260-	110S-	0R -	CI P
cqI . dpe	40 1	2ss4S-	20J- 07	2J477-	2s0444	2R36	CI P
5II . dpe	2- s 1	4SJ7S	41061	41J- 0	4174J	1R20	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCl:a	wI P8 I N
LI r :DI e t Nb:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Nb. i:DI e t Nb:&T:a	y h SMsSD	TdbiqC. :M OCl:a	1
TI ip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja2sa11	TI il MdbN:mI e p:a	1- 4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	174742	174707	1721J-	17- 00S	SRsJ	OI P
YiipIr dpe	102 1	11J- 1	114- S	11022	116J4	2R17	OI P
YiipIr dpe	102 2	7- 2J	72S0	7- 62	72JJ	1R77	OI P
YiipIr dpe	106 1	s72S	s00S	s261	s710	2RJJ	OI P
YiipIr dpe	106 2	17SSJ	14s07	1727J	17S4s	1R S	OI P
YiiIdpe	sJ 1	1- - - JJJ4	171s4ssJ	1SJ02JS6	1- 167J- S	16RS4	OI P
YiiIdpe	sJ 2	142J6S1	14- S427	1- S121J	1- s0Ss2	7R 6	OI P
ZqO	66 2	60J22	6J4J6	6ssJS	6s06J	1R17	OI P
ZdOC. dpe	JS 1	- 662-	- 262-	- 4660	- 46- s	7R0s	OI P
ZdOC. dpe	J1 1	ssJS	0220	0400	0s67	11R4S	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 447 S1	tOwTpmb Or T.u sb r :J	8 N
9 Pr CTI sb DPP:t&:.J	y h SMN1	&dPmTcnC:MsdTnp.J	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdPP:u sb r :J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
qPmb cCcmb	20 2	614420	6S- 6- 4	. 7N0. -	6S. 6S.	1R 2	dDw
qCTb nCE	121 1	4N. 1	40. 7	407-	4NS1	SR70	dDw
qpwr Ccd	0. 2	4176	41S-	411N	41- 7	1R21	dDw
Bspcmb	1- . 1	4607NS	4NN46S	47S0S2	4N2- N1	2R6S	dDw
Bspcmb	1- 0 1	N11. 1S	N. 14- 4	N0- - S7	N4. 41N	- R01	dDw
Br pEPRmb	7 1	2. - 0	260.	201S	2641	- R4.	dDw
Bcwb mTG	2S7 1	NS270N6	0N. 10. 4	. 22. - - S	0S- . 62-	22R 2	dDw
Bcwb mTG	2S7 2	- - 6. 46-	- - 07. . 0	- - 426- 0	- - 62. . 2	SR .	dDw
Bpmb cCr	N1 1	0- 44	0. 74	NS17	06. 2	4R46	dDw
9 sob cmb	1SN 1	2S4	227	210	210	. R00	dDw
9 sob cmb	1S6 1	46- 4	4. 4-	- 272	41. 6	1NRS4	dDw
9 sob cmb	111 1	2610	26. 2	2. . 0	26S7	1RN.	dDw
9 sPdcmb	4- 1	- 1N. 40	- 24N6S	- - 4. 7N	- 26SS2	2R4N	dDw
9 sPdcmb	44 1	. 2N2- NS	. 6606. .	. 046. 4-	. . 6. . 26	4R46	dDw
9 spenC	12 1	6- 1- - 76	6. NN- 1S	66N- 700	6. 2N. 61	2R7.	dDw
9 spenC	12 2	N- . 46	0N776	NS71.	N11. 2	2RN1	dDw
9 GPmpcCr	- . 1	2- S00N6-	200174N2	- S16- SN4	267N6N1S	1- R 4	dDw
9 GPmpcCr	- . 2	22S6S4	222- 07	224461	2224N1	SRN0	dDw
9 Gpmb cmb	. 2 2	- N- 2N	- 00N-	- 0272	- 0NS1	1R 0	dDw
9 nesFT	. 7 2	47. N7	4NS41	4600-	4N1- 4	2R7-	dDw
9 nDDr p	6- 2	1N0N. 4	1N002N	1N7114	1NN2- 2	SR41	dDw
&EwDpnwcmb	1. 6 1	6N141	0S2. 1	0- - 6S	0S. N4	- R02	dDw
&EwDpnwcmb	1. 6 2	274S2	2704-	276- -	27. 7-	SR 7	dDw
Upecmb	164 1	. - 6SS	. 6S1S	. 010-	. . . 7.	- R2N	dDw
Upecmb	164 2	22N. 6	22- S2	22- 76	22. 1N	1R 2	dDw
HsonRCcmb	16S 1	62176	6- 617	644- 2	6- 41.	1R0N	dDw
HsonRCcmb	16S 2	- S160	27SS2	2714.	274- N	2R16	dDw
h nPb cmb	16. 1	111N226.	1S0761SN	02S11S2	7026472	22R 0	dDw
h nPb cmb	16. 2	4274647	4- 0466N	4- SS0SN	4- 2- - 42	1RS-	dDw
tCocmb	11. 1	N14. 147	0N76- 72	. - 4SNN.	012040.	21R0N	dDw
tCocmb	11. 2	7N0- N2	7N6NS1	706. 67	7N- . N4	SR62	dDw
tpnC	. 4 2	- 1S7N64	- S. 0N- 7	- S. - NN.	- S0- N6-	1RS2	dDw
tpnC	. 6 2	. 6. 4124-	. 660S4N0	. . 020SN7	. 6- 1274S	SR71	dDw
tpnC	. 0 2	14. 1617	1- 777- 4	14- S. 70	1420- N4	1RN2	dDw
KpEDTnC	N- 1	- - .	- - 7	- 16	- - S	- R6.	dDw
Lr so	2S6 1	4064S1	. S- . . 7	. 12011	470. . 0	- RNS	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 447 S1	tOwTpmb Or T.u sb r :J	8 N
9 Pr CTI sb DPP:t&:.J	y h SMN1	&dPmTcnC:MsdTnp.J	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdPP:u sb r :J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	2S0 1	- 7NN7-	41- 42N	42- 471	4117- 0	- PSS	dDw
Lr so	2SN 1	17S24- -	176. 172	2SS6. 62	17. NS62	2P6N	dDw
LdTGmb	6 1	270N727	2N11221	21S0. 40	26- 2. 66	10P.6	dDw
y sgOr wcmb	24 2	NS. N26	NS- N40	074104	NS12N2	SP0N	dDw
y sOgsOr wr	. . 2	07- - N2	07- 264	0N1N26	0N7471	SPN4	dDw
y nPEeor Omb	74 1	26006	20N- 0	207- 0	20. 10	2P.4	dDw
y nPEeor Omb	7. 1	6620	0S1S	01. 2	67- S	- P72	dDw
y nPEeor Omb	76 1	11470	1S7NS	12214	11. 64	. P6	dDw
y nPEeor Omb	70 1	4. 26	4. . 7	441N	4. S1	1P6.	dDw
y nPEeor Omb	7N 1	111NS	11270	11S21	11166	1P24	dDw
u r noEb cmb	1. S 1	11407-	1166. 6	1214. 2	1106- 4	2P72	dDw
u r noEb cmb	1. S 2	- 62N2	- . N. 1	- . 66N	- . 7- 4	SPNN	dDw
u cdkr P	6S 2	24N2N	24777	2. 2S7	2. S12	SP06	dDw
8 GhwDGhpmw	- 1 2	0- 6S	0067	06. 2	0. 74	2P00	dDw
8 nTswwcmb	- 7 2	41S666	41- N77	4S. S2.	4S7N64	1P1S	dDw
F Ghocmb	1S- 1	NS. N- 1-	0607027	. - . 7126	0S- 2- N7	2SP0N	dDw
F Ghocmb	1S- 2	- - 7- 7- 4	- 4S- 0. -	- - . 1- 60	- - N- S1N	SPN2	dDw
I dsCocmb	4. 1	. - 104N.	. 10- 0N4	- 6147- .	40S2S6N	2SPSN	dDw
I dsCocmb	4. 2	1. 2S16	14NN76	14N- S2	1470- N	1P-	dDw
I r PPCmb	N2 1	106	2S2	17S	17S	6P72	dDw
I r PPCmb	00 2	100	12S	110	1- N	24P40	dDw
I r PPCmb	0N 2	0-	N7	11N	7-	24P44	dDw
I dPdnC	2N 1	147. 74NN	1. 27- 7- 7	1. N244. .	1. - . 7274	2PN4	dDw
I dPr p	1S0 1	2772	- 12.	270.	- S- 1	2P01	dDw
I dPr p	1S7 1	2760	- S10	- S42	- SS7	1P20	dDw
I nocmb	2- 2	. 6746	. 677.	. NS10	. 0- 17	1PS.	dDw
I TpnCTcmb	N6 1	27- 2S7	27162.	- S6274	270S4-	2P01	dDw
I TpnCTcmb	NN 1	26. - 04-	20S26N6	2N22SS2	2026144	- P10	dDw
I mPPmp	- 4 1	- - N- 4-	- 2677S	- 2- 474	- 276S7	2P6	dDw
Ar pecmb	1. 7 1	11401- 42	1S04S712	04. 4NS1	7NN7S1N	21P64	dDw
Ar pecmb	1. 7 2	42- 1S. 0	424S20-	4160470	4212742	SP74	dDw
AGsPPcmb	2S- 1	2- 60	24SS	2- . 7	2- 0.	SP7-	dDw
AGsPPcmb	2S. 1	. N6N	. 61N	. . 4-	. 606	- PSS	dDw
AdC	11N 1	70S4	710S	1S7S0	7720	NP76	dDw
AdSCcmb	40 1	70042	1SSN. 4	1S241.	1SS- - 0	2P.0	dDw
5 psCcmb	2- N 1	NSS- 6	0720-	N1411	NS24S	1P.	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S1	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SMN1	&dPnTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdP:u sb r :J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	. 1 2	0S4- 7	60677	6N- 66	6NN- .	2PSN	dDw
YTTr pe omb	102 1	166- 6	16. . 2	10S7.	16061	1P04	dDw
YTTr pe omb	102 2	0741	0041	0717	0N60	1R 7	dDw
YTTr pe omb	106 1	11N02	11N. 6	11N22	11N. S	SP21	dDw
YTTr pe omb	106 2	1020-	16620	10- 60	10SN7	2R 6	dDw
YTTpomb	N7 1	1. . 66N- N	1462- S26	1S4- 7. - S	1- . 4- 1- 1	2SP1.	dDw
YTTpomb	N7 2	14767N6	146024S	144S0NN	146N- - N	1P71	dDw
ZdCd	66 2	N02SS	N4N- 7	N. 001	N. 7- 6	1R N	dDw
ZqpdnComb	7S 1	. N647	6- 261	6. 4NN	62466	. R N	dDw
ZqpdnComb	71 1	1- N- 2	14116	14441	141- S	2P16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 S2	tCl Tpmb Cr T.u wb r :J	Na
5 8r CTl wb D8 :t&:.J	9 y SUa1&	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :u wb r :J	1- 6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	6S4S46	h7aSha	h7h2S0	h771S4	SM0h	dDl
qCTb nCE	121 1	42a4	- 7h7	464-	427h	0M16	dDl
qpl r Ccl	0h 2	4Sh-	41h0	41h-	4121	1M4-	dDl
Bwpcmb	1- h 1	4a4a72	40S6a6	4a112h	40a7S1	1M14	dDl
Bwpcmb	1- 0 1	a4a7a2	ah0271	a400S0	ah1- 20	SM61	dDl
Br pE8mb	7 1	2h42	26- 7	2h60	2ha-	1M1-	dDl
Bdl b mTG	2S7 1	67- 4104	0214- 26	01700h2	011h410	2M21	dDl
Bdl b mTG	2S7 2	- 276117	- - 1h107	- 41200S	- - 41- h6	1M40	dDl
Bpmb cCr	a1 1	0h44	0720	0aS2	00ha	2M12	dDl
5 wob cmb	1Sa 1	227	272	2- a	2h-	1- M12	dDl
5 wob cmb	1S6 1	406a	4- 06	41S7	441a	0M1S	dDl
5 wob cmb	111 1	2460	2476	22- 6	24SS	hM72	dDl
5 w8lcmb	4- 1	- 24h4-	- 2h67a	- 2h- a2	- 2h2Sa	SM1a	dDl
5 w8lcmb	44 1	hhh176S	hh16a04	h4- Sa21	h477aah	1M1-	dDl
5 wpenC	12 1	6- - 4672	6h47461	6621124	6hS10h7	2M27	dDl
5 wpenC	12 2	006hh	00h02	00664	006- S	SM80	dDl
5 G8hpCr	- h 1	2416020S	2072a701	2776hS- h	20- h- 0h7	1SM0h	dDl
5 G8hpCr	- h 2	216h1S	21720h	226a2S	22Sa6a	2M12	dDl
5 Gpmb cmb	h2 2	- 070S	- 00h-	- ah12	- aS0a	1M8-	dDl
5 new8T	h7 2	4002S	40026	467h4	40460	SM74	dDl
5 nDDr p	6- 2	1ah4S7	1a2ah4	1ah101	1a440a	SM00	dDl
&El Dpnl cmb	1h6 1	0S6h4	01SS6	0114a	0S7- 6	SM6	dDl
&El Dpnl cmb	1h6 2	2a604	- S- S1	2a041	272- 7	- M1h	dDl
Fpecmb	164 1	h0266	hh6S7	ha1a6	h0S2S	2M27	dDl
Fpecmb	164 2	22- 46	222Sh	22207	22206	SM1	dDl
Hwon8Cmb	16S 1	6ShaS	6- S47	6- - 6S	62- - S	2M44	dDl
Hwon8Cmb	16S 2	2a07a	272a2	276S7	272- S	1M4S	dDl
y n8b cmb	16h 1	1SS62Sh1	1SSa6- 07	1S2S0606	1S11a0S2	SM00	dDl
y n8b cmb	16h 2	411226S	424h27-	441h- S6	42h062S	- M10	dDl
tCocmb	11h 1	04- h7Sa	02aa2- 0	0- 24602	0- 476S6	1M8h	dDl
tCocmb	11h 2	7h0210	7044hS	7a6aSS	702a22	1M1-	dDl
tpnC	h4 2	- S2h6- 2	- S27- 62	- Sa27hh	- S4h7a-	1M8h	dDl
tpnC	h6 2	h4a16Sa6	hhha6- 22	h47- - S67	hh111a26	SM0h	dDl
tpnC	h0 2	1274S41	1- S1Sh4	12aa74h	12746aS	SM40	dDl
KpEDTnC	a- 1	- - 6	- 64	- 4S	- 40	4M1S	dDl
Lr wo	2S6 1	474140	47077-	477642	470261	SM10	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 S2	tCl Tpmb Cr T.u wb r :J	Na
5 8r CTl wb D8 :t&:.J	9 y SUa1&	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :u wb r :J	1- 6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	411266	4246a7	41262-	41617-	1M0a	dDl
Lr wo	2Sa 1	17424ah	176S662	17h2h0S	17h17S6	SM40	dDl
LdTGmb	6 1	26- 1a0S	204474a	26h2h2a	2606447	2M2h	dDl
9 wgCr l mb	24 2	076h62	077S6-	07S271	07h- Sh	SM10	dDl
9 wCgwCr l r	hh 2	0a- 7S6	0a- 026	00h266	0aS766	SM0-	dDl
9 n8Eeor Cmb	74 1	2647-	266ah	20S74	260h0	1M1h	dDl
9 n8Eeor Cmb	7h 1	h006	61- h	621S	6S4S	- M44	dDl
9 n8Eeor Cmb	76 1	1Sh07	1S1a0	1S46-	1S41S	1M7-	dDl
9 n8Eeor Cmb	70 1	- a10	- hS7	- 0- 4	- 6a0	4M-	dDl
9 n8Eeor Cmb	7a 1	7701	7a4h	70- 0	7ah1	1M17	dDl
u r noEb cmb	1hS 1	110- S7	11760h	11a6a1	11ahhh	1M8S	dDl
u r noEb cmb	1hS 2	- 4712	- 4716	- 4722	- 4710	SM81	dDl
u cdkr 8	6S 2	2h27-	24h21	244ha	240h0	1M4a	dDl
NGhl DGhpml	- 1 2	0ha6	0hS2	0017	06S2	1M44	dDl
NnTwl l cmb	- 7 2	4Sa2S0	4S1a0S	4S- - 10	4S4464	SM42	dDl
. Ghocmb	1S- 1	0- 102a6	02aaa2-	0220- 61	0200a2-	SM0-	dDl
. Ghocmb	1S- 2	- - 2a- - -	- - S14- 2	- 44SSS1	- - h6ha7	2M17	dDl
l dwCocmb	4h 1	404a760	4ah7- 22	4aS744-	4aSh711	1M1h	dDl
l dwCocmb	4h 2	14h- 61	14676-	1hS- 47	140hha	1M0-	dDl
l r 8 Ccmb	a2 1	144	162	146	1h1	6M0h	dDl
l r 8 Ccmb	00 2	1- S	110	1- -	120	6M16	dDl
l r 8 Ccmb	0a 2	114	11-	146	124	1hM1S	dDl
l d8dnC	2a 1	1h2- 01aa	1hh0- hha	1h2h74h0	1h- h60- 4	1M42	dDl
l d8vr p	1S0 1	- h60	- 4h1	- 1- 4	- - a4	6M0-	dDl
l d8vr p	1S7 1	- S0h	- 260	2760	- 1S-	4M7S	dDl
l nocmb	2- 2	h- 604	h- 7SS	h42- h	h- 7- 6	SM12	dDl
l TpmCTcmb	a6 1	2724S1	2770h-	277411	2701aa	1M4S	dDl
l TpmCTcmb	aa 1	20- - 221	20h6170	20hS7Sh	204600h	SM44	dDl
l m8mp	- 4 1	- 1S- - 0	- S0- - h	- S- 0a4	- S01h2	1M80	dDl
Ar pecmb	1h7 1	1S12- aa2	1S2a6740	1S2h716a	1S22- - - 2	SM4h	dDl
Ar pecmb	1h7 2	412a- h4	42S77S0	421a1- 0	41ah466	1M17	dDl
AGw8mb	2S- 1	22SS	21- 4	2272	22S7	- M0S	dDl
AGw8mb	2Sh 1	h16a	h1- h	4a6a	hSh0	- M2h	dDl
AdC	11a 1	a72a	7112	747h	710a	- M1h	dDl
AdTwCcmb	40 1	7a0- 2	7a0- 7	7ahaa	7a6a6	SM87	dDl
RpwCcmb	2- a 1	007S6	077S1	a1SSa	076Sh	1M70	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUa1&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :u wb r :J	1-6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwoomb	h1 2	674S4	6a4- -	6aaSa	6aaa1	SM01	dDl
YTTr peomb	102 1	16420	16-74	160a6	16h-6	1M1	dDl
YTTr peomb	102 2	00ha	0671	0h24	06ha	1M10	dDl
YTTr peomb	106 1	11422	11722	112a7	11h44	2M47	dDl
YTTr peomb	106 2	16a61	16422	104S6	16a76	2M72	dDl
YTTpomb	a7 1	14S7-074	14102a01	1-7h-102	14S0-207	SM07	dDl
YTTpomb	a7 2	141-h4a	141a146	1467266	14- - 6h-	2M16	dDl
ZdCd	66 2	a62h4	a46a1	ah10a	ah-01	SM74	dDl
ZqpdnComb	7S 1	61-S2	62a42	6-244	6246-	1M64	dDl
ZqpdnComb	71 1	14S-2	14247	1-46h	1-716	2M71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPlIer Fpiabolrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFaloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNabolrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqP
dNer dFqer	23X2	12J-m1	124Jmm	12-2O2	124-0O	OUn0	otP
dFiqEFy	121X1	m--	m13	0Jm	m60	mU01	otP
dIPpFqp	3JX2	mO6	mJ4	m14	m2J	-U12	otP
BIlqer	1-JX1	03631	0m1O6	03J0-	0330O	OU2m	otP
BIlqer	1-3X1	13JO-J	13J333	1320OO	134J31	OUn6	otP
BplyNqer	0X1	J26	J43	J06	JJ3	6U4J	otP
BqPreih	2O0X1	36JJ104	3O3mJ-O	6m-m60m	310OmO3	JUm4	otP
BqPreih	2O0X2	-O02441	-OJ42O4	-OJ0m03	-O6mm43	OU63	otP
BIErdFp	m1X1	4mO1	43J1	40-4	4m20	1U06	otP
MIRrqer	1OmX1	Jm	JO	63	Jm	14U20	otP
MIRrqer	1O6X1	4102	-0OO	-6J0	-02O	6Um1	otP
MIRrqer	111X1	mJm	m64	m44	mJJ	1U10	otP
MINvqer	4-X1	64m00	6Jm-O	66-m1	6J3O-	1U14	otP
MINvqer	44X1	1Om-333	1O02246	11OJJ46	1O0-mJ6	1UOO	otP
MISEF	12X1	-131004	-22-0-2	-1mOmmJ	-102231	OUn3	otP
MISEF	12X2	-m-O1	-m66m	-30m-	-m-13	OUn0	otP
MhNEldFp	-JX1	11-m13J6	114JOJ3-	114224-O	1141m2J-	OJ-O	otP
MhNEldFp	-JX2	3-J62	34O6J	3-11m	3-Jm2	OU64	otP
MhIErqer	J2X2	m36-	m606	mJ10	m6J0	1U4J	otP
MESINN	J0X2	0034	1OOJO	060O	00OJ	1U02	otP
MEttpl	6-X2	-03O0	-0-21	-042J	-04mJ	OJJ1	otP
TyPtIEPqer	1J6X1	14J63	1-024	14---	1423J	2U2m	otP
TyPtIEPqer	1J6X2	611m	JmJJ	J0Om	J06O	2UJ4	otP
ISqer	164X1	114OJ	113m1	11432	11JJ-	1U3-	otP
ISqer	164X2	4J11	4621	4m3m	463O	4UO-	otP
GIRENqFqer	16OX1	122m0	12JO6	126-1	12436	1UJ0	otP
GIRENqFqer	16OX2	62mm	Jm0J	6OmJ	6Om0	-U2-	otP
9ENNqer	16JX1	1O600J02	006O231	0m-3-46	1O16J3-6	4UJ0	otP
9ENNqer	16JX2	-021066	-0O266-	4O3060J	-06m1Om	2U4J	otP
&FRqer	11JX1	mOm2666	3-J4J6-	3-0JO46	361O3Jm	JUJm	otP
&FRqer	11JX2	mm4343	m303O1	01J1J0	m0-2O2	2U1J	otP
&EF	J4X2	Jm0O62	J0O134	Jm-4m0	Jm3J3J	OU61	otP
&EF	J6X2	1146mJ2O	11JOO0-2	11410063	1146-14O	OJ-6	otP
&EF	J3X2	23-1O1	26m034	26m140	23OO34	OU0m	otP
KlytiEF	m-X1	260	2J0	20O	232	JUn6	otP
LplR	2O6X1	0m2O4	1O1JO6	1O1-1J	1OO-41	1UnJ	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqP
LplR	2O3X1	m-O4m	m2330	m46J-	m-40-	1U21	otP
LplR	2OmX1	-0124m	-020O-	-0m06m	-04-3-	1UO-	otP
Lqihqer	6X1	23O6261	2J41-01	2JJmJ--	26O2O62	-U4m	otP
HlgFpPqer	24X2	1642O-	164mJm	1Jm4O6	1624m0	2U10	otP
HlFglFpPp	JJX2	16-1J2	16J432	1640J1	164J2J	OU34	otP
HENYSRpFer	04X1	J136	J-0-	J-O1	J20O	2UO6	otP
HENYSRpFer	0JX1	11Om	162J	1-Om	1-43	10UJ4	otP
HENYSRpFer	06X1	212J	242J	2-OO	22m4	6U6O	otP
HENYSRpFer	03X1	mm-	mJO	m2J	mJ-	-U4-	otP
HENYSRpFer	0mX1	1002	2263	2202	21m4	3U62	otP
bpERyrqer	1JOX1	2-m42	24O40	24O22	2-031	OU43	otP
bpERyrqer	1JOX2	3202	3-20	31mJ	3260	1UO2	otP
bqpkpN	6OX2	JO2m	J-41	J22m	J100	-UOJ	otP
uhEPthElePP	-1X2	13Jm	16Om	142J	1J03	1OU4J	otP
uEilPPqer	-0X2	0OO2m	013O3	0O164	0OO--	OUmJ	otP
7hERqer	1O-X1	3333J12	3-2mJ-2	3-4mJJ3	34m4m63	-UJ0	otP
7hERqer	1O-X2	20m4246	-O6OJO1	-1-32JJ	-O6O663	2UJO	otP
DolFRqer	4JX1	JO13OJm	43mJ3-m	46043J1	4m-2J16	-U44	otP
DolFRqer	4JX2	1-4024	1-121m	1-6mm2	1-4-41	2U14	otP
DpNqFqer	m2X1	4O	4J	m	-1	66UO4	otP
DpNqFqer	33X2	--	2O	6O	-m	J-U02	otP
DpNqFqer	3mX2	-m	-J	2J	--	2OUm4	otP
DqNqpEF	2mX1	-1mJ113	-2262J0	--1203m	-2414J1	2UO1	otP
DqNpl	1O3X1	363	m--	3OO	363	mU3O	otP
DqNpl	1O0X1	3Jm	62J	mOm	3-1	12U03	otP
DERqer	2-X2	24O2O	2-mO-	24O30	2-063	OU61	otP
DilEFiqer	m6X1	Jm264	6OO-0	J0mmm	J0-03	1U66	otP
DilEFiqer	mmX1	JO4m1J	J101O1	JOO006	J11-O4	1U41	otP
DeNel	-4X1	2J026J	261404	26423m	261630	OU06	otP
cplSqer	1J0X1	11226O64	1O12-211	0011-3O	1O42O21J	6U33	otP
cplSqer	1J0X2	-34304J	-3O-610	-m34J31	-33J-3m	2UJJ	otP
chlNqer	2O-X1	413	J2J	62J	J22	10UOJ	otP
chlNqer	2OJX1	143J	1J2J	1JOO	1JOO	1U63	otP
cqF	11mX1	2m42	-1OO	2J02	2m4J	mU04	otP
cqlFqer	43X1	102mm	2OJ1J	2O-6J	2OOJ6	-UJ4	otP
CIlFqer	2-mX1	1J1J0	1J433	1Jm44	1J40-	2U21	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FFlIer Fpiabolrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNabolrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqqP
VlFlRqer	J1X2	14223	144m4	14J41	14413	1U16	otP
YiiplSqer	132X1	-Jm4	-O13	-202	-20m	m16O	otP
YiiplSqer	132X2	16--	16-0	13--	1660	-U3	otP
YiiplSqer	136X1	-636	-426	-436	-J26	-U3J	otP
YiiplSqer	136X2	11411	114OO	12-J6	11322	4U6m	otP
Yiilqer	m0X1	142O34O0	1--m000-	1-1m3-16	1-J040O6	-U03	otP
Yiilqer	m0X2	11m22m1	116m0O1	12202J3	110-4mO	2U66	otP
ZqFo	66X2	13m11	1306J	13-J1	133O0	1UmO	otP
ZqloEFqer	0OX1	12J64	1263-	12m0m	12312	1U4	otP
ZqloEFqer	01X1	2Jm4	262J	23-4	264m	2U0-	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S-	tOwTpmb Or TusB r:J	8 N
5 PR CTI sb DPP:t&:J	9 y SUN1I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r:J	1- Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCmb	20 2	6- NNh-	62- 4- 4	6- - NSN	6- 2S- 2	1M24	dDw
qCTb nCE	121 1	11S76N	11hh12	116N7S	1144h6	2M01	dDw
qpwr Cd	0h 2	h247	h17-	h20S	h2- 0	SM0h	dDw
Bspmb	1- h 1	7NSh04	1S4N- 16	1S- 60- h	1S21N0h	- M1h	dDw
Bspmb	1- 0 1	1N- S260	1720- S4	17444Sh	17SS6h7	- M24	dDw
Br pEPmb	7 1	10- 27	1N0S6	1N- 6-	1N1- -	- M7h	dDw
Bcwb mTG	2S7 1	04h4- h4	h1hhN6N	6- 7764N	6- - 662-	1NM16	dDw
Bcwb mTG	2S7 2	- - 72- N7	- 26620h	- - 0004-	- - 4h467	2M36	dDw
Bpmb dCr	N1 1	66Nh	0220	NS44	0- 17	7M1h	dDw
5 sob mb	1SN 1	11N-	1101	1101	110h	SM61	dDw
5 sob mb	1S6 1	h66N	4Nh1	hS06	h17N	NM12	dDw
5 sob mb	111 1	1620N	102N1	16077	160N6	2M77	dDw
5 sPdmb	4- 1	- 1- 1hS	- 27- - S	- 2- N42	- 221S0	2M1h	dDw
5 sPdmb	44 1	h- 20SNh	hh22070	h47116h	h440S1h	1M7-	dDw
5 spenC	12 1	h422N- 7	h06h422	h0NS- N1	h6h6214	- M1N	dDw
5 spenC	12 2	672- N	67- 14	0SS2h	67h26	SM02	dDw
5 GPmpdCr	- h 1	1760hS6S	2hS4S760	206NS2N-	241- 21S-	16M7S	dDw
5 GPmpdCr	- h 2	2S6h6h	2S72S-	21h1S4	21S271	2M3N	dDw
5 Gpmb mb	h2 2	1S64N-	1S6211	1S47h2	1ShNN2	SM00	dDw
5 nesPT	h7 2	- 6hNh4	- 6210-	- 60020	- 6h2h1	SM00	dDw
5 nDDr p	6- 2	274- 6N	27- 7SN	27S4SS	272N72	SM04	dDw
&EwDpnwmb	1h6 1	66N4-	01h- 4	67706	674h1	- M44	dDw
&EwDpnwmb	1h6 2	27172	2N021	2N14-	2N6Nh	1MM-	dDw
Fpemb	164 1	h42N0	h66NN	hhN1N	hhh7N	2M17	dDw
Fpemb	164 2	22172	2217h	2171h	221S1	SM0-	dDw
HsonPCmb	16S 1	6S00-	6h11N	6- S- -	62704	- M4h	dDw
HsonPCmb	16S 2	2N7- 1	2N0Nh	2N06N	2NN2N	SM11	dDw
y nPb mb	16h 1	1Sh- h104	0460171	7S- 4S4N	7S121- N	10M32	dDw
y nPb mb	16h 2	4- h126h	4107S10	42h1241	426ShS0	2M3-	dDw
tComb	11h 1	007- - N0	h- - - 146	66N2Nh2	66S- 12N	1NM06	dDw
tComb	11h 2	7h0h- N	741211	76- 10-	7h- 704	1M2S	dDw
tpnC	h4 2	- 12024N	277446h	- Sh60S-	- Sh7402	2M10	dDw
tpnC	h6 2	h4N270S-	h4421466	hh10- 114	h4NSNS74	SM07	dDw
tpnC	h0 2	1422614	14117N1	14SNS44	141421-	SM1-	dDw
KpEDTnC	N- 1	202	- - 0	27h	- S2	1SM74	dDw
Lr so	2S6 1	4N4NN6	h1- 210	h100- S	hSh20N	- M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DP:t&:J	3 - 447 S-	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DP:t&:J	9 y SUN1I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r:J	1- Nq. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S0 1	4S646-	42N464	42706N	421h6h	- M11	dDw
Lr so	2SN 1	17SNN04	2S- hS6h	2SS10hN	17N1N77	- M1S	dDw
LdTGmb	6 1	2612N61	2S12N22	2hS17h-	2- 0hN07	1- M14	dDw
9 sgOr wcmb	24 2	0774SS	0N0S2h	NS21hS	076171	1N31	dDw
9 sOgsOr wr	hh 2	N01NN6	Nh7N- 4	N61hN-	N644- 4	SN0h	dDw
9 nPEeor Omb	74 1	24hN7	2h6hN	2h741	2h- 76	2NM1	dDw
9 nPEeor Omb	7h 1	hh06	h76N	hNS1	h0N2	- M1S	dDw
9 nPEeor Omb	76 1	7N27	1SSh4	7627	7N- 0	2M16	dDw
9 nPEeor Omb	70 1	- 4- 4	- 6S1	- 0h7	- h7N	4M12	dDw
9 nPEeor Omb	7N 1	NN2S	7N62	7h62	741h	hN0S	dDw
u r noEb omb	1hS 1	11- - NN	121S70	11NS41	110hS7	- M1S	dDw
u r noEb omb	1hS 2	- h0hN	- 40- h	- 402N	- hS04	1N07	dDw
u cdkr P	6S 2	11hh- 1	11- 707	11h121	114N00	SN0S	dDw
8 GhwDGhpmw	- 1 2	02S2	0hS2	6767	0224	- N0S	dDw
8 nTswwcmb	- 7 2	411h46	4S7N4-	41- 014	4110S1	SM40	dDw
. Ghocmb	1S- 1	0h214S7	h- NhS- 7	6h14N1h	640- 0hh	16M11	dDw
. Ghocmb	1S- 2	- 21S- 27	- 2224h7	- 2Nh1- 0	- 2- 7- SN	1N24	dDw
I dsCocmb	4h 1	hS- Nh- 1	- hN7hS4	4264- S0	4270440	16MN0	dDw
I dsCocmb	4h 2	14N276	1461- 6	1462h4	146N7h	SMM-	dDw
I r PCcmb	N2 1	24S7	2446	24S4	242S	SM76	dDw
I r PCcmb	00 2	2hS	160	1h0	171	26MM1	dDw
I r PCcmb	0N 2	- 17	- 1N	- 24	- 2S	1N3S	dDw
I dPdnC	2N 1	14117hNh	1h66S4Nh	1h44- 7S7	1hS0466S	hM1-	dDw
I dPr p	1S0 1	64h6N	6NN- 7	60hS0	66702	- N26	dDw
I dPr p	1S7 1	61N7N	66220	6h66h	64h70	- N04	dDw
I nocmb	2- 2	6412h	6hN66	647S-	6476h	1M4	dDw
I TpmCTcmb	N6 1	2N417S	27Nh47	- SS- 14	274- h1	- N3S	dDw
I TpmCTcmb	NN 1	2h7447h	202SS41	206SN4N	267107h	- N22	dDw
I mPmp	- 4 1	- S- 14S	- S- h21	- SSN1N	- S247-	SM4N	dDw
Ar pecmb	1h7 1	1SNh4- 12	0h7h6h4	72SS12-	7216670	10N3N	dDw
Ar pecmb	1h7 2	4171767	41S1S- 6	4S07466	41241h0	1M4h	dDw
AGsPbmb	2S- 1	hN1N2	64S41	6- 741	62Shh	hM41	dDw
AGsPbmb	2Sh 1	144S0-	1hSN46	14N2SN	1400S7	2M1	dDw
AdC	11N 1	11- hh	112Sh	1S076	11117	2N3S	dDw
AdSCcmb	40 1	1SS12N	77- 61	70664	77Sh1	1N20	dDw
RpsCcmb	2- N 1	0N762	Nhh01	N01SN	N- NNS	hM16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S-	tOwTpmb Or Tusb r :J	8 N
5 PrCTI sb DPP:t&:J	9 y SUN1I	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r :J	1- Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h1 2	2S2010	2SSN0S	17N2- S	2SS6S6	1M12	dDw
YTTr peomb	102 1	161Nh	10- S-	16SS2	16470	4M20	dDw
YTTr peomb	102 2	07- S	0hSN	N1NS	0N0-	4M12	dDw
YTTr peomb	106 1	110- 1	12SS6	12SS6	11714	1M-	dDw
YTTr peomb	106 2	16674	166hS	100S1	10S1h	- M47	dDw
YTTpomb	N7 1	140hS206	1S- N- N4S	12NSS- S1	12644NS6	10MS	dDw
YTTpomb	N7 2	1421- hN	141047h	1- - S74-	1- N77- 2	- M0N	dDw
ZdCd	66 2	11N400	11NhS0	11716S	11N01h	SM12	dDw
ZqpdnComb	7S 1	h7- 2h	61200	61SS1	6Sh- 4	1M0h	dDw
ZqpdnComb	71 1	12N7S	1- hh0	14177	1- h47	4MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MPA R&psb I Pr:Dr :J	H9 O. N1L	t ARn&nR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23X2	110462	110342	110 O1	110 6N	OU1-	ql w
cR&b nRy	121X1	NN-	NN-	3- -	N- -	1OU0	ql w
cSvr RAq	3 X2	3N1	NON	300	306	1U3-	ql w
BsSAmb	1- X1	0 630	00ON0	0 - O-	0660O	2U16	ql w
BsSAmb	1- 3X1	16N- 6	160210	163N-4	16N43O	OU41	ql w
Br SyPAmb	0X1	10	40	400	22	4UN2	ql w
BAb m&a	2O0X1	644 3- 4	602ON64	3O21163	630 022	4U 2	ql w
BAb m&a	2O0X2	- 200N44	- 2- 3 0	- 234 1	- 23O6 1	OU06	ql w
BSmb ARr	N1X1	43- 4	4N0-	401N	4N4N	2UD	ql w
Msob Amb	1ONX1	02	31	N	34	22UNN	ql w
Msob Amb	1O6X1	- N4	- 3N4	- 6- 4	- 663	2UN4	ql w
Msob Amb	111X1	3N6	366	33-	33	1U20	ql w
MsRqAmb	4- X1	64O11	6- 0N4	642 3	64ON4	OU2-	ql w
MsRqAmb	44X1	1O6324O	1O3N11N	1ON2 O0	1O3 0 6	OU3-	ql w
MsSenR	12X1	20N6064	20 N242	- O244- 0	20N0NN2	1U11	ql w
MsSenR	12X2	- 6- 46	- O36	- NN6	- 360	1UNO	ql w
MhPnSRr	- X1	1O 1- 6-	1ON- 442	1O60623O	1O6N13 N	1U 1	ql w
MhPnSRr	- X2	31263	604 0	60402	3OO3-	1U4N	ql w
MhSmb Amb	2X2	N620	N 00	N- - 6	N 21	1UN0	ql w
MnesR&	0X2	06N3	0 - O	0 13	0 3N	OU00	ql w
MnI I r S	6- X2	- 0 32	- N412	- 3N- 1	- N6O	2U- O	ql w
t ywl SnwAmb	1 6X1	1- 00	141- -	1- 0N-	1- 0O	1U0N	ql w
t ywl SnwAmb	1 6X2	6OO	0O1	N61	022	1U2	ql w
FSeAmb	164X1	11O	1121-	112O	111 N	OUNO	ql w
FSeAmb	164X2	4423	4 O3	4463	4463	OU0O	ql w
GsonPARAmb	16OX1	126- 1	116O	1264N	1220	4UN6	ql w
GsonPARAmb	16OX2	6ONN	6O3N	6O4	6O3O	OU- 3	ql w
9nPb Amb	16 X1	02- 123N	0061O4N	034- 022	064 416	- UN0	ql w
9nPb Amb	16 X2	4224N26	41624N	42 6063	42143 0	1U14	ql w
DRoAmb	11 X1	66 2143	3O066N2	32 - 304	3OOON34	4U46	ql w
DRoAmb	11 X2	0 26N3	0 N103	0 - O- O	0 46- N	OU- 2	ql w
DSmR	4X2	6 13	63644	34N- 3	60- - 2	OUN6	ql w
DSmR	6X2	11- O O46	1111O632	1O0 N430	111243- -	1U 6	ql w
DSmR	3X2	2634 4	26416N	2616- 4	264410	1U1O	ql w
KSyl &aR	N- X1	2N3	2N0	204	20O	1U14	ql w
Lr so	2O6X1	0324O	00- 30	00 NO	0N3- -	1U 1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MPAR&psb I Pr:Dr :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O3X1	3041	N- 1- 2	N- 0	N2163	2U04	ql w
Lr so	2ONX1	- NO2	- N0O10	- 0O 26	- N66OO	1U4-	ql w
LA&nAmb	6X1	2- - O663	2 4132	2 - 103O	246N121	4UN-	ql w
HsgRr wAmb	24X2	1 N1N6	161300	1 6 04	1 NN6O	1U6N	ql w
HsRgsRr wr	X2	1 3160	1 0304	1 3- N	1 N1O3	OU0-	ql w
HnPyeor Rmb	04X1	44-	- O0	4NN4	212	U6O	ql w
HnPyeor Rmb	0 X1	1- N-	12ON	1202	120	6U36	ql w
HnPyeor Rmb	06X1	22N4	2163	21 O	22OO	- U O	ql w
HnPyeor Rmb	03X1	3 O	3N-	663	3- -	NU2O	ql w
HnPyeor Rmb	0NX1	2OOO	1013	2ON4	2OOO	4U13	ql w
ur noyb Amb	1 OX1	220NO	2- N62	2- N61	2- 6N	2U16	ql w
ur noyb Amb	1 OX2	3OO	3110	322	3116	1U	ql w
uAqkr P	6OX2	O0N	O14	4364	40 0	- U O	ql w
8hnwl hnSnw	- 1X2	1 42	1642	16OO	1 0	- U1	ql w
8n&swwAmb	- 0X2	01O3O	NN 46	NN- 2N	N0- 1	1U31	ql w
EhnoAmb	1O- X1	6633- NO	3ON2N1N	31 1 21	603O 3-	- U6N	ql w
EhnoAmb	1O- X2	- - - 41O0	- - 123- N	- - 4- 011	- - - O2 -	OU4N	ql w
pqsRoAmb	4 X1	4- 3OOO2	46- 630	46- 0333	4 4N4N6	- U4O	ql w
pqsRoAmb	4 X2	14 406	14- 0 O	14- 6O-	144- O	OU3O	ql w
pr PRAmb	N2X1	X- 4	- 1	X4	X2	X1 NUNO	ql w
pr PRAmb	33X2	13	4-	23	20	46U62	ql w
pr PRAmb	3NX2	- N	20	43	- N	2- U6N	ql w
pAAqnR	2NX1	- 16 064	- 10 662	- 166022	- 1361N-	OU -	ql w
pAPr S	1O3X1	642	N- -	363	343	1- UO2	ql w
pAPr S	1O0X1	642	342	32	3O-	3U62	ql w
pnoAmb	2- X2	2- NN3	22004	2- NN3	2- N0	2U10	ql w
pSSnR&Amb	N6X1	N334	0410	6O2- O	0434	1U2-	ql w
pSSnR&Amb	NNX1	1 16	14- 6O	1 N4O	1 122	OU14	ql w
pmPmS	- 4X1	2 2642	2 13 0	2 - O- 1	2 2433	OU26	ql w
i r SeAmb	1 0X1	041O36N	1OO O21O	1OO2- 220	0N2NO60	- U6N	ql w
i r SeAmb	1 0X2	414O 26	41- ON 4	41- 1210	41- 42OO	OU1-	ql w
i hsPAmb	2O- X1	642	6ON	613	622	2U30	ql w
i hsPAmb	2O X1	1- O	1 42	122	1- 32	11U62	ql w
i AR	11NX1	2063	23 0	2 02	233-	6U3N	ql w
i A&sRAmb	43X1	1N306	10 14	10NO6	10- 32	2U6N	ql w
CSsRAmb	2- NX1	1 44-	1 6-	1 - 0-	1 40O	OUN2	ql w

888

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr:J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MFAR&psb I Pr:Dr:J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r:cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. APr:usb r:J	1- 0cEF. Ud

8sSsb r&S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
VsRsoAmb	1X2	1- 3 3	1414O	1- 3O	1- N22	2U1O	ql w
Y&&SeAmb	132X1	- - 13	- 6 0	- 2 0	- 412	6U4	ql w
Y&&SeAmb	132X2	160	1632	16 6	1634	1U13	ql w
Y&&SeAmb	136X1	- 213	- 2 O	- 0	- - 42	U64	ql w
Y&&SeAmb	136X2	1210	12 4O	1- - 12	126N2	4U 1	ql w
Y&&SAmb	N0X1	1246- N61	1- 1143N	1- 142 N1	120O3O36	2U0N	ql w
Y&&SAmb	N0X2	1- 432N4	12N6NN-	1206- N	1- 1O13	2U4N	ql w
ZARq	66X2	136 4	131N1	132 4	13- 6-	1U43	ql w
ZASqnRAmb	0OX1	12- 14	121 6	12- O6	122 N	OU3-	ql w
ZASqnRAmb	01X1	2 02	2 63	20O0	26N0	3U0N	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP u sb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCmb	2072	16SS200	16SS4N6	1hh2- S6	1hN4- h6	1M0h	dDw
qCTb nCE	12171	2N2h	2- : 2	26h:	262h	NM-	dDw
qpwr Cd	0h72	1hhN	1h01	14NS	1h- 0	- M2S	dDw
Bspmb	1- h71	14S4N4	14S0Sh	141S- S	14S04S	SM2S	dDw
Bspmb	1- 071	241: 24	2h- 161	24: 2NN	24N124	2M1S	dDw
Br pEPmb	: 71	: 4h	: SS	: 6S	: - h	- M4	dDw
Bcwb mTG	2S: 71	6- 1N160	6: - 0hhh	0- 4- 0- 1	6N664N4	0M12	dDw
Bcwb mTG	2S: 72	- 2h6SNh	- 4h4SS0	- 22NS16	- - 120S2	- M02	dDw
Bpmb cOr	N171	4: S:	4N26	4: h1	4N: h	1M1S	dDw
5 sob mb	1SN71	110	hS	NN	Nh	- : M4h	dDw
5 sob mb	1S671	- N06	- 6S:	4S10	- N- 4	hM41	dDw
5 sob mb	11171	NNh	N02	: 2S	N: 2	2M00	dDw
5 sPdmb	4- 71	2- : S1N	241N: 2	2- NN46	2- : : 1N	SM01	dDw
5 sPdmb	4471	4S01: : h	424- 62S	4SN26N4	41- 2066	2M-	dDw
5 spenC	1271	440: 2- N	400h2: -	400S44h	4604: : 2	- M0-	dDw
5 spenC	1272	h02: 6	hN0: -	h04N0	h0Nh:	1M41	dDw
5 GPmpcOr	- h71	1: 26: 6N:	244- S- S1	20S21: - N	2- h0- : 06	16M04	dDw
5 GPmpcOr	- h72	2S2S62	2S: SN4	2SNh6S	2S6h6:	1M1:	dDw
5 Gpmb mb	h272	1102: -	110: 4h	116h: 0	11020N	SM10	dDw
5 nesPT	h: 72	: - 1: :	: - 4S0	: - 64-	: - 416	SM24	dDw
5 nDDr p	6- 72	2- 1h01	2- - - 22	2- 14h2	2- 211h	SM4h	dDw
&EwDpnwmb	1h671	- 604-	- 64S1	- 020N	- 6NS0	1M2S	dDw
&EwDpnwmb	1h672	16S: -	1610-	1hN4S	16S- h	1M3:	dDw
Fpemb	16471	- 16NS	- 1N22	- - 2: 2	- 226h	2M00	dDw
Fpemb	16472	1- 061	12: N-	12066	1- 10S	- M0	dDw
HsonPCmb	16S71	- N140	- NNh0	- N- - 1	- N44h	SM16	dDw
HsonPCmb	16S72	1N- N:	1Nh2S	1N- S6	1N4Sh	SM1N	dDw
KnPb mb	16h71	: S- 064N	1S2- 0: SS	1S22h: 4h	: N- - N- 1	0M31	dDw
KnPb mb	16h72	42: : N: h	4- 612S2	41S- NSS	42h4: 66	- M16	dDw
tComb	11h71	64N0SS0	022N- 4N	02NS0h4	6: : N0S-	6M4	dDw
tComb	11h72	: 6- 40h	: 6: N14	: 260- 6	: h- - 41	2M44	dDw
tpmC	h472	4421N: 6	4- NN: - 0	4- 1- - 4:	4- 04020	1M20	dDw
tpmC	h672	0: h11- Nh	NS: : 22: -	0N1: 1: NN	0: h6h222	1M06	dDw
tpmC	h072	2S: 14S6	2S6N666	2S1N: - 2	2Sh: 66N	1MS	dDw
gpEDTnC	N- 71	- SS	- 2:	- 10	- 1h	4M1:	dDw
Lr so	2S671	0N42S	N2612	0: 66h	NS2- 2	2M0N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP usb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	60- hN	6NShS	6626-	60224	1M4	dDw
Lr so	2SN71	- 1h6: 1	- 1N4h:	- 1424-	- 161- 1	SM6N	dDw
LdTGmb	671	241SNS6	26- 0SN0	26N- 161	2h00S1N	hM06	dDw
9 sk Or wcmb	2472	20S00- 6	20- - 0hh	26446S2	26: h- 64	1M0S	dDw
9 sCk s Or w	hh72	: S4Shh	NN: N10	NN2: h6	N: 2206	1M21	dDw
9 nPEeor Cmb	: 471	616S	6020	6- 00	6421	4M46	dDw
9 nPEeor Cmb	: h71	- S42	20N4	2010	2N4N	6M8-	dDw
9 nPEeor Cmb	: 671	- : 06	4SS:	- : S:	- : 6h	1M2N	dDw
9 nPEeor Cmb	: 071	1: SS	1N2h	1: 2h	1NN4	2M06	dDw
9 nPEeor Cmb	: N71	44: -	4206	4S60	420:	4M0	dDw
u r noEb cmb	1hS71	4h64h	464N1	401S:	46412	1M1N	dDw
u r noEb cmb	1hS72	14S- 1	14621	1- : S0	141N0	2M0:	dDw
u cdvr P	6S72	N: : Sh	: S4hh	NN0Nh	N: 01h	SMh	dDw
8 GhwDGhpmw	- 172	h4: -	h24-	h26N	h- - 4	2M1N	dDw
8 nTswwcmb	- : 72	11N1: 1	11N2- -	110- : 2	110: - :	SM4S	dDw
. Ghocmb	1S- 71	64- : h2-	02001- -	02- N2NS	6: N4: 0:	6M00	dDw
. Ghocmb	1S- 72	- - S- 0S0	- 2: - h0-	- 212NNh	- 20SShh	1M12	dDw
I ds Cocmb	4h71	4- S- Sh6	4N06416	4: S- 014	46: 4- : 6	0M2-	dDw
I ds Cocmb	4h72	14: : hN	1hS216	14- N46	14NSS0	2M44	dDw
I r PP Cmb	N271	04	716	40	- h	1- 2M12	dDw
I r PP Cmb	0072	6S	6-	0S	64	0MS	dDw
I r PP Cmb	0N72	06	h0	6S	64	1hMN0	dDw
I dPdnC	2N71	12S- 21- S	12- 1h2h-	121S2N2S	121hSS6N	1M21	dDw
I dPr p	1S071	1S2h	1S: 2	1S: 2	1S0S	- M0S	dDw
I dPr p	1S: 71	1S2h	NhN	1ShS	: 0N	1SM06	dDw
I nocmb	2- 72	10: S2h	100N4-	10: 1: 2	10N6N6	SM41	dDw
I TpnCTcmb	N671	142S- 0	140404	1400h2	14h0h4	2M21	dDw
I TpnCTcmb	NN71	12h624S	12hNN41	124h64N	12h- h06	SM16	dDw
I mPVmp	- 471	261h- S	26SSh-	2hNNN-	26S1hh	SM11	dDw
Ar pecmb	1h: 71	: 16: 244	1S4N2h24	1S4h0- h6	1SS- 6- 0h	0M4N	dDw
Ar pecmb	1h: 72	4144N6:	42120- 6	41- : 106	416hh: -	SMN	dDw
AGs PPcmb	2S- 71	NhN	NhN	060	N2N	6M:	dDw
AGs PPcmb	2Sh71	2ShS	10N4	2S2h	1: h-	0M14	dDw
AdC	11N71	hh6S	h: 06	hSh:	hh- 2	NMS	dDw
AdS Cmb	4071	- 406h:	- h6: 20	- h- - S0	- h26- 1	1M12	dDw
Rps Cmb	2- N71	110S6	12SN:	12164	11: N0	2M8h	dDw

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Inst Id :P8

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Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP u sb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	1- 14N4	1- 1Sh0	12NSN1	1- S2S0	1M42	dDw
YTTr pe omb	10271	0h20	06S2	06S2	0h00	SM10	dDw
YTTr pe omb	10272	- N60	- 662	- : - 4	- N21	- M01	dDw
YTTr pe omb	10671	6S4-	616N	6- - h	61N2	2M10	dDw
YTTr pe omb	10672	1- NS0	14141	1- 624	1- Nh0	1MN1	dDw
YTTpomb	N: 71	124: 42h6	1- h21h1:	1- 0hS116	1- 2hh2: 0	hMSh	dDw
YTTpomb	N: 72	1- : 4: 1-	1- 2: - N1	120h4Nh	1- - - 26S	4M4:	dDw
ZdCd	6672	- 021h	- 026:	- NSS1	- 04: h	1M10	dDw
ZqpdnComb	: S71	1204N	1- 04:	1- S1h	1- 10S	- M4	dDw
ZqpdnComb	: 171	26h:	2NSS	2010	202h	2M61	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : S	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP usb r J	141q . FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	160: S14	162- S- N	162024:	164- 1S1	1M1S	dDw
qCTb nCh	12171	- 12E	- 1N4	2N2E	- S4E	6M2	dDw
qpwr Ccd	0E72	EE: S	E61:	EESS	EE6:	1M11	dDw
Bspcmb	1- E71	2SSSSN	2S2- - 0	2S1E- :	2S12: E	SM4:	dDw
Bspcmb	1- 071	- E22- S	- 6SS10	- 6E22S	- E: 1EE	1M12	dDw
Br phPmb	: 71	1S11	: : 0	1S60	1S2E	- M62	dDw
Bcwb mTG	2S: 71	6: N2S1:	6: 0- 1S0	0S- 2S0-	6: : E0- -	SM4E	dDw
Bcwb mTG	2S: 72	- - : 24S:	- - 4ESS-	- 2444EE	- - 202N:	2M20	dDw
Bpmb cCr	N171	E: : -	61NE	606S	6- 1-	6M2	dDw
5 sob cmb	1SN71	60	0E	N-	0E	11M1	dDw
5 sob cmb	1S671	- 406	- 6S:	- 6S1	- E62	2M1S	dDw
5 sob cmb	11171	N4-	: 2E	N20	N6E	6M1	dDw
5 sPlcmb	4- 71	1SE0- 6	1SE4- S	1S61- S	1SE06E	SM-	dDw
5 sPlcmb	4471	1N4N1- N	1N: N: S2	1NE42- S	1N60S: S	1M4N	dDw
5 spenC	1271	4224NN0	4- ESS- -	44SNSNS	4- 20660	2M6	dDw
5 spenC	1272	E1E: 1	E1016	ES: - :	E141E	SMN1	dDw
5 GPmpcCr	- E71	24: 2- : S0	2: 212- 0E	- 2S- - - 40	2N02- 2S:	12M46	dDw
5 GPmpcCr	- E72	2- - 1N1	2- 006-	2- 002S	2- 6221	1M1	dDw
5 Gpmb cmb	E272	11E- N4	11E- : E	11- 220	11466:	1M8:	dDw
5 nesPT	E: 72	0- SNS	02E- 0	02- 4S	026E2	SM4-	dDw
5 nDDr p	6- 72	216011	21- - 2-	2144ES	214N2N	SMNS	dDw
&hwDpnwcmb	1E671	1646:	16: 2N	16N44	16040	1M46	dDw
&hwDpnwcmb	1E672	0- - 2	0S4E	02S:	01: E	2M8S	dDw
Fpecmb	16471	166- 6	16061	101N0	16N61	1M01	dDw
Fpecmb	16472	0SE2	666N	6: 1E	6N0:	2MN-	dDw
HsonPCcmb	16S71	100S4	102- 0	10E12	104N4	1M4	dDw
HsonPCcmb	16S72	N2E6	N10-	N1S6	N10N	SM2	dDw
KnPb cmb	16E71	: N0: 610	1S1N41NS	1S2- EE1-	1SS: : 00S	1M1S	dDw
KnPb cmb	16E72	4- 601- 2	44S14N:	41S2- : 0	42: S- - :	- MN1	dDw
tCocmb	11E71	021E- S0	0- S- 02N	0- E- 42:	02: SN21	SM6	dDw
tCocmb	11E72	: 610E1	: N6442	: 46SS4	: 640- -	2M1	dDw
tpnC	E472	- 01640-	- 0- 64S2	- 01E4SS	- 0220EN	SM2	dDw
tpnC	E672	60S642E6	661N200S	66226- : :	664: 1141	SM0E	dDw
tpnC	E072	1042641	104: E4E	10E2S62	104NSN-	SM2N	dDw
gphDTnC	N- 71	240	- S6	- 20	2: 4	14M1	dDw
Lr so	2S671	160420	16N0SN	16: S4:	16N- : E	SME1	dDw

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On:7/14/2023 8:48:56 AM
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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : S	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP usb r J	141q . FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	1- N1N1	141- : 1	141- E1	14S- SN	1M1	dDw
Lr so	2SN71	6EE4E:	6E4E42	6E40N0	6E4: 2:	SM80	dDw
LdTGmb	671	2E: S60:	26- 41: 0	260: S: 2	26- 46E6	1M0N	dDw
9 sk Cr wcmb	2472	1: 21: 1S	1N00E41	1N626EE	1NN0- 6N	1M0-	dDw
9 sCks Cr wr	EE72	0E4442	0ES4: -	04: S06	0E1- - 0	SM10	dDw
9 nPheor Cmb	: 471	4410	ESE1	46E:	40S:	6M0:	dDw
9 nPheor Cmb	: E71	2: 10	- 6S1	- 442	- - 2S	1SM0N	dDw
9 nPheor Cmb	: 671	- 026	4N1N	4- 26	42: S	12M0E	dDw
9 nPheor Cmb	: 071	21S:	2- 10	1N- 4	2SN6	11M02	dDw
9 nPheor Cmb	: N71	40- 4	EE- E	E606	E- 1E	: MEE6	dDw
u r nohb cmb	1ES71	21S: 0	21EEN	21164	2120-	1M10	dDw
u r nohb cmb	1ES72	6ESN	64NE	6EN2	6E2E	SM00	dDw
u cdvr P	6S72	6EN21	6E06N	646E:	6E416	1M8S	dDw
8 GhwDGhpmw	- 172	2110	1N: 2	24S:	21- :	12M11	dDw
8 nTswwcmb	- : 72	1S0S1-	1S- 4N6	1S2NSN	1S44- 6	2M16	dDw
. Ghocmb	1S- 71	022NE24	0264N0N	02SSE: 2	02- 1- - 1	SM4E	dDw
. Ghocmb	1S- 72	- 20S644	- 40: - 1-	- 2- 60S6	- - 2NNNN	- MIE	dDw
l ds Cocmb	4E71	4N04N16	4NS16: 6	4024NSS	4NSS4- 0	1MEE6	dDw
l ds Cocmb	4E72	14: 41:	1ES224	144: 4S	14N1: 4	1M12	dDw
l r PP Cmb	N271	ES	-	76	1E	1: 6M10	dDw
l r PP Cmb	0072	- S	4S	4-	- N	1NM6	dDw
l r PP Cmb	0N72	2:	4S	- -	- 4	16MN	dDw
l dPdnC	2N71	100: NEE:	10NS614N	10040221	100N- : 06	SM1N	dDw
l dPr p	1S071	100E	1NES	10: 2	1NS6	2M1N	dDw
l dPr p	1S: 71	1- 2E	1N: 2	1642	162S	10MEE4	dDw
l nocmb	2- 72	1- E02N	1- 60NN	1- 6- SS	1- 6202	SM:	dDw
l TpnCTcmb	N671	002: N	N1E02	0: N0S	0: ENS	2M0S	dDw
l TpnCTcmb	NN71	6N4S1E	6N: SE0	6NSSN4	6N4- NE	SM06	dDw
l mPVmp	- 471	2400: 2	24E- : E	240S- 6	246041	SMES	dDw
Ar pecmb	1E: 71	1S- 142EE	1S42: N1-	1S2ENS44	1S- - 4S- 0	SMME	dDw
Ar pecmb	1E: 72	41- - E0-	4- 21- - -	4SNE- 42	41NSSN-	2M1N	dDw
AGs PPcmb	2S- 71	11ES	1142	11EN	11ES	SM02	dDw
AGs PPcmb	2SE71	2E60	2NS:	20ES	20S:	4M06	dDw
AdC	11N71	NE2N	N661	0N- 6	N- 42	EM1	dDw
AdS Cmb	4071	46: : NN	4642N:	466N62	460S46	SM01	dDw
Rps Cmb	2- N71	- 206N	- - 4- 6	- 2E4-	- 2: 16	1M41	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : S	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP u sb r J	141q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	E172	11EESN	11E- 40	11ENEE	11EE0S	SM22	dDw
YTTr pe omb	10271	4- : -	46S1	4: - 4	464-	EMM:	dDw
YTTr pe omb	10272	262-	2E10	244E	2E2N	- MM4	dDw
YTTr pe omb	10671	4SE1	4NS:	4426	442:	NMM0	dDw
YTTr pe omb	10672	122ES	1- 0- S	1- - : S	1- 12-	EMS	dDw
YTTpomb	N: 71	1- 640ES4	1- 6- 4- - S	12: EESS2	1- 41220N	2MME	dDw
YTTpomb	N: 72	120E: 06	14E41- 2	1- 62: 4S	1- 64- 4:	6MM-	dDw
ZdCd	6672	- 6660	- 6- SS	- 6- - S	- 64- 2	SMM6	dDw
ZqpdnComb	: S71	N4E-	N1- 6	N12N	N2- :	2MME	dDw
ZqpdnComb	: 171	1N2E	1N- 4	10N4	1N14	1MN	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd: 1	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d &be q dpe	2072	12- a2- S	11: - aSu	12SSa4:	12S: 06-	1Rua	Ol l
d. iqe C. E	12171	u: 2	1Sau	1S60	1SS6	: Ru2	Ol l
dll p. qO	0a72	- 20u	- 1: 0	- 120	- 2SS	2R 6	Ol l
Bwldpe	1- a71	11S44u	11Sa1u	11222:	111S6a	SR 1	Ol l
Bwldpe	1- 071	1: 0016	1: u: aS	1: : 12u	1: ua: u	SR :	Ol l
BplE&&pe	: 71	6u4	602	6a1	66:	2R40	Ol l
Bdqe biG	2S: 71	6: 0011-	0S- 01- a	6u1- 0a:	6: 4266:	1R60	Ol l
Bdqe biG	2S: 72	- - a60a1	- - - 01- u	- - - : 2u6	- - 44- : 2	SR 2	Ol l
BlCe q p	u171	4: 06	a1u4	a606	a20:	6Ru1	Ol l
9 wne dpe	1Su71	42	60	au	a6	22R 1	Ol l
9 wne dpe	1S671	- 0a:	- a06	- a: 2	- 642	2R0u	Ol l
9 wne dpe	11171	a6u	a: u	61S	a: 2	- R01	Ol l
9 w&Odpe	4- 71	40ua0	40u- 0	40uS:	40u- 4	SRSa	Ol l
9 w&Odpe	4471	uS2061	uS041u	uS6: 20	uSa0S2	SR 2	Ol l
9 wlr C.	1271	2u2S- 2a	2u0a06u	2ua: uu2	2ua1: : 2	1RSS	Ol l
9 wlr C.	1272	- - : 0-	- - 6: u	- - - : 0	- - 6u:	SRu6	Ol l
9 G&Clq p	- a71	2624u20:	- S604: 0S	- - - 0: aaS	- S1SS: - -	11R 6	Ol l
9 G&Clq p	- a72	2- : S24	2- : - : 6	240: 46	242122	2RSu	Ol l
9 GlCe dpe	a272	6u: 2u	606u:	6uS4u	6u222	SR -	Ol l
9 Cr w&	a: 72	4640:	4aaS:	4a: 14	4a: 60	1RS6	Ol l
9 Ct pl	6- 72	12: 1S1	126: ua	120a01	120uu6	SRua	Ol l
TEl t lCl dpe	1a671	1Su01	12Sa6	1111-	11- 40	aRa1	Ol l
TEl t lCl dpe	1a672	aS44	4: S4	4: au	4: 6:	1R42	Ol l
Ulr dpe	16471	11640	11640	12414	11: S-	- R02	Ol l
Ulr dpe	16472	46- 1	46u1	40: u	40S-	1Ru2	Ol l
HwnC&q dpe	16S71	11: - :	11u22	110u1	11u40	SR6:	Ol l
HwnC&q dpe	16S72	a61u	a62a	aa6u	a6S-	SRaa	Ol l
KC&e dpe	16a71	: u6a: 61	1S1111a:	1S122u: u	1SS- - - - :	1R4a	Ol l
KC&e dpe	16a72	4- aaSuu	422S044	4102- ua	424: 4S6	2R2-	Ol l
& ndpe	11a71	0- 2064-	0- 414a1	0- 11: 02	0- 20S22	SR2S	Ol l
& ndpe	11a72	: 6- 4S1	: 40464	: aS12:	: a- 66a	SR S	Ol l
&C.	a472	20: 0a2-	2u11626	20a: 40-	20u: a41	SR 0	Ol l
&C.	a672	aS: u14aa	aS: S04: 1	4: 01ua: 4	aSa- au40	1R4S	Ol l
&C.	a072	12Su011	12S4u: -	11u- S4:	11: uuu4	1R1a	Ol l
glEt iC.	u- 71	2: 2	2u:	2: 2	2: 1	SR04	Ol l
Lpwn	2S671	- 4: : 2	- 46- S	- 4aS0	- 401S	SR0-	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd: 1	T&piqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u242	2u6S4	2u04:	2ua- 2	SR 1	Ol l
Lpwn	2Su71	1- aa6:	1- - 1a6	1- - : 2S	1- 421a	SR 2	Ol l
LqiGdpe	671	26aS4u4	26uSuS-	2a: 4- 02	2641uu6	1R66	Ol l
y wk. pl dpe	2472	1- a: 224	1- 20uSu	1- S42a:	1- - S4- S	2RS0	Ol l
y w. kw. pl p	aa72	a6: u- 2	aa: 2: 6	a4: 20S	aa: 466	1Ru4	Ol l
y O&Er np. be	: 471	04u6	60ua	606u	0S1-	aRu4	Ol l
y O&Er np. be	: a71	2uS:	2: 10	2u- 4	2ua-	1R :	Ol l
y O&Er np. be	: 671	4- S:	41a1	4- 60	4206	2R62	Ol l
y O&Er np. be	: 071	1: aS	10SS	10: 2	1u14	6R 0	Ol l
y O&Er np. be	: u71	4: 4-	44: -	46a1	46: a	4Ru6	Ol l
mpOnEe dpe	1aS71	14a- a	1- : 04	1446u	14- 26	2R14	Ol l
mpOnEe dpe	1aS72	4200	4141	4201	42- S	1Ru2	Ol l
mqOvp8	6S72	4aS0u	4a20a	44064	4aS- :	SRa0	Ol l
NGOl t GOlbl	- 172	1a: 2	1a10	16: 2	16SS	aR4:	Ol l
NOiwl l dpe	- : 72	a- u4-	a11u-	a2421	a24u2	2Ra4	Ol l
F GOndpe	1S- 71	0- u6S41	0- S- : - 6	01: ua- 0	02: 6101	1R2:	Ol l
F GOndpe	1S- 72	- 2: 24uu	- 2u6au:	- 26S4: -	- 20: ua6	SRa2	Ol l
DOw. ndpe	4a71	4046a60	4uS0u01	4ua- a26	4uS26aa	1R12	Ol l
DOw. ndpe	4a72	1400- 6	146u4:	14- 01u	1461S1	1R44	Ol l
Dp&p. dpe	u271	726	1S	2-	2	121aR4S	Ol l
Dp&p. dpe	0072	1-	1-	20	1u	4- R -	Ol l
Dp&p. dpe	0u72	2-	2a	- 2	20	10R02	Ol l
Dq&qC.	2u71	1- a24- - u	1- - 4u2- a	1- 2u- 006	1- - ua4aS	SR -	Ol l
Dq&pl	1S071	6: 2	6: 2	02a	0S-	2R04	Ol l
Dq&pl	1S: 71	aaS	6SS	610	au:	aRu:	Ol l
DOndpe	2- 72	4uu- 2	40u12	4u2Sa	4u2u-	1RS0	Ol l
DilC. idpe	u671	2au24	261Su	2601u	26210	1R04	Ol l
DilC. idpe	uu71	22S: a0	226- - a	222: a6	22- 416	1R22	Ol l
Db&bl	- 471	220S: -	22a: 2-	22aS4-	226S2S	SR4a	Ol l
cplr dpe	1a: 71	1S246421	1S- - 6: : -	1S11u10S	1S2- - u62	1RS0	Ol l
cplr dpe	1a: 72	424114u	4S: a- : 0	4S6S4uu	41- 2- 44	2R 2	Ol l
cGw&pe	2S- 71	060	0u-	u42	0: 0	4R 4	Ol l
cGw&pe	2Sa71	1010	10SS	10aS	1022	1R4u	Ol l
cq	11u71	26aS	2442	2a- 4	2a42	4R1	Ol l
cqiw. dpe	4071	416: 10	4S: - : 2	4144a-	41- au0	SR -	Ol l
5 lw. dpe	2- u71	14Sau	14160	1422a	141aS	SR6S	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd : 1	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
hw. wndpe	a172	0: u21	0: : : 2	0: 6S0	0: uS0	SR24	Ol l
Yiiplr dpe	10271	- 4: 2	- - a:	- 642	- 4: u	4RSa	Ol l
Yiiplr dpe	10272	1a02	1au:	10SS	162S	4R2:	Ol l
Yiiplr dpe	10671	- a06	- aS1	- - u4	- 4u0	2R00	Ol l
Yiiplr dpe	10672	121a6	12a4a	124: a	12- : :	1R01	Ol l
Yiildpe	u: 71	1- - 6- - 16	1- 4u- a44	1- 2u: - u6	1- - 0u04:	SR0-	Ol l
Yiildpe	u: 72	1- Sa6u-	1206u1S	12061- S	12u62Su	1R 1	Ol l
Zq O	6672	1u606	1u- a:	1u- 6:	1u46u	SR u	Ol l
ZdlOC. dpe	: S71	14a- -	1- a: :	1- 0: :	1- : 00	- Ra2	Ol l
ZdlOC. dpe	: 171	- 4S1	2: : 2	2: - 4	- 1S:	uR u	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	1u4SJ0	1u7602	1u7- S7	1u7S27	SR47	Ot I
d. iqe C. E	121 1	27SS	2242	2410	2- u6	7R7-	Ot I
dIl p. qO	07 2	1S41	1S- 0	1S1J	1S- 2	1R14	Ot I
Bwldpe	1- 7 1	10Su62	10S4J1	102467	10120-	SR61	Ot I
Bwldpe	1- 0 1	2J7422	- S11J7	2J07- 6	2JuS71	SR3u	Ot I
BplE8dpe	J 1	1070	16u6	10SJ	1010	2R12	Ot I
Bdqe biG	2SJ 1	66u6- 4u	64- - u- 2	6u4J4SJ	66767- S	- R17	Ot I
Bdqe biG	2SJ 2	- - - 4uJ1	- 2042- J	- - u- 4JJ	- - - Su06	1R64	Ot I
BIOe q p	u1 1	44J-	4J7J	47u4	460J	7R2J	Ot I
9 wne dpe	1Su 1	7u	01	u-	01	10R67	Ot I
9 wne dpe	1S6 1	- 642	- 606	- JS1	- 0- J	- R06	Ot I
9 wne dpe	111 1	u1J	0uJ	6u6	067	JR14	Ot I
9 w8Odpe	4- 1	- 400JS	- 4u- 44	- 47010	- 402u4	SR4S	Ot I
9 w8Odpe	44 1	7J76SS7	7J647SJ	7uuuuJ2	7J- 646u	SR0S	Ot I
9 wIr C.	12 1	26Su11S	26- 01JS	262u06-	26246uu	SR70	Ot I
9 wIr C.	12 2	- 10S1	- 161u	- Su7S	- 1- JS	1R7S	Ot I
9 G8Clq p	- 7 1	277666S-	2J- 4SJS1	- 1471J12	2u0u6402	1SR 6	Ot I
9 G8Clq p	- 7 2	220JJ0	2- 2411	2- 474-	2- 167S	1R44	Ot I
9 GIOe dpe	72 2	24077	24204	2- u2-	242u4	1R12	Ot I
9 Or w8	7J 2	JJ6S	1S4J4	1S7S0	1S- 2S	- RS2	Ot I
9 Ot t pI	6- 2	22- S4	2222u	21u10	22116	1R1J	Ot I
TEI t IOI dpe	176 1	4- 7S7	461- S	47001	471- 7	- R17	Ot I
TEI t IOI dpe	176 2	1u0u-	1u70-	1u41J	1u7J2	SR3u	Ot I
UIr dpe	164 1	- - 127	- - - 42	- - 260	- - 247	SR -	Ot I
UIr dpe	164 2	12uu-	12066	1- 200	12J07	2RS6	Ot I
HwnO8q dpe	16S 1	- JS41	- uS22	- J61u	- uuJ4	2RSu	Ot I
HwnO8q dpe	16S 2	10Ju6	1u24J	1uSSJ	1uSu1	SR01	Ot I
h O8e dpe	167 1	Ju0J026	J1J7J16	J62- 1u6	J766206	- R61	Ot I
h O8e dpe	167 2	42u7Ju6	4214J27	4- 61S77	42u0- 22	1R0S	Ot I
& ndpe	117 1	6JuS47S	6076SJ6	0S706- 6	6J- 1- J4	2R26	Ot I
& ndpe	117 2	Ju24u0	J07J1J	Ju1- 74	J0JJ2S	SR 6	Ot I
&C.	74 2	JS71u-	J12106	J1S407	JSJ20u	SR4S	Ot I
&C.	76 2	1006SJ16	1002J4- u	106JJ1S2	1002Ju1u	SR10	Ot I
&C.	70 2	41u6u-	41664J	414- - u	416770	SR72	Ot I
KIEt iC.	u- 1	- 11	2u4	- S0	- S1	4R16	Ot I
Lpwn	2S6 1	12077S	1- 107-	12u66S	12J- 21	1R6u	Ot I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	Tqbiq C. :MwOICI:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMq8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	1S747-	1S7u46	1S701u	1S7602	SR1J	Q I
Lpwn	2Su 1	4JJS1-	7S- Ju1	4JJJu0	7SSJJ4	SR7-	Q I
LqiGdpe	6 1	270241S	2- J16J2	2766S- 7	271SS46	4RSJ	Q I
y wg. pl dpe	24 2	0200uS	021- 4-	0- 2S6J	020S64	SR04	Q I
y w. gw. pl p	77 2	- 7u0- 6	- 61416	- 7JS- 1	- 7J02u	SR41	Q I
y C8Er np. be	J4 1	14707	146Su	14- JJ	14720	SR00	Q I
y C8Er np. be	J7 1	44- 4	4726	461u	4726	2RS-	Q I
y C8Er np. be	J6 1	60- 7	6u20	661S	6024	1R62	Q I
y C8Er np. be	J0 1	2J60	2JSJ	2J10	2J- 1	1RSu	Q I
y C8Er np. be	Ju 1	0S00	0100	0272	016J	1R2-	Q I
mpOnEe dpe	17S 1	uS40-	u216-	u1u62	u17SS	1R11	Q I
mpOnEe dpe	17S 2	24SJu	24J- 0	242JJ	24447	1R0J	Q I
mqOkp8	6S 2	4641	7121	71Su	4J76	7R72	Q I
NGOI t GOIbI	- 1 2	14SS	1242	1- J2	1- 47	6R6-	Q I
NOiwI dpe	- J 2	1407- 4	1466Su	146201	146uS4	SR47	Q I
F GOndpe	1S- 1	6JS6441	6uSJ447	6u627- u	6u7J407	SR01	Q I
F GOndpe	1S- 2	- 4S1- - u	- - - 0Su7	- - J1uu6	- - 0606J	1RS-	Q I
DOw. ndpe	47 1	44u170u	4- - 4S- 1	472uu07	444u161	2R2u	Q I
DOw. ndpe	47 2	140S07	14JSu-	14JS- 4	14u- J0	SR00	Q I
Dp8p. dpe	u2 1	62	40	- 4	4u	- SRS2	Q I
Dp8p. dpe	00 2	11S	1SS	1S0	1S6	4Ru2	Q I
Dp8p. dpe	0u 2	6J	u2	6S	0S	17R02	Q I
Dq8qC.	2u 1	02uuJ26	010u401	01- 7Su2	02SSu26	1R1S	Q I
Dq8vpI	1S0 1	JSS	u60	1Su-	J7S	12R2u	Q I
Dq8vpI	1SJ 1	1SSS	J42	07S	uJ0	14R7u	Q I
DOndpe	2- 2	4- 22-	4- 741	42046	4- 10S	SR1-	Q I
DiIC. idpe	u6 1	074S4	0- J6-	06S24	071- S	1R41	Q I
DiIC. idpe	uu 1	644471	672071	671J4J	64J010	SR0S	Q I
Db8bI	- 4 1	27S67J	2661JJ	20JS4S	2672JJ	7R 6	Q I
cpIr dpe	17J 1	J0147S7	J7- 020J	J000S44	J606206	1R2J	Q I
cpIr dpe	17J 2	41S0JuJ	424SJu4	424J2u0	41JJ42S	1RuJ	Q I
cGw8bpe	2S- 1	1- 10	12Su	JJ2	1102	14R12	Q I
cGw8bpe	2S7 1	2uSJ	2J42	27SS	207S	uR24	Q I
cq	11u 1	06u6	0J7-	u161	0J- -	- RSS	Q I
cqiw. dpe	40 1	20061J	206201	20- 7u0	207u26	SR04	Q I
5 Iw. dpe	2- u 1	- 2141	- - - u6	- - - 47	- 2J70	2R17	Q I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	10S44	10470	16000	10SJ-	2RS1	Ol l
Yiiplr dpe	102 1	Ju62	1SS- 0	J462	J0u0	- RS1	Ol l
Yiiplr dpe	102 2	4JS0	4647	466u	404S	- RS6	Ol l
Yiiplr dpe	106 1	04J4	0611	0400	0720	SR10	Ol l
Yiiplr dpe	106 2	14uS-	14627	140- 1	1402S	SR61	Ol l
Yiildpe	uJ 1	1- 160260	12J16- S2	1- 22u4- 4	1- 1S4SS1	1R26	Ol l
Yiildpe	uJ 2	1- 46- u1	14202u4	142JSJ7	14SSJ2S	- R0	Ol l
Zq O	66 2	- S426	2JuJu	2J11-	2Ju1-	2R22	Ol l
ZdlOC. dpe	JS 1	- 246-	- - 7u-	- 2- 22	- 20uJ	2R11	Ol l
ZdlOC. dpe	J1 1	0244	0200	0272	027u	SR24	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t N:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t N:&T:a	y h SMS7	T qbiqC. :M OCI:a	1
TI ip:A:cqe p:dOobqpn:a	2S2- S0 12:1Ja7sa-0	TI il MqN:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q qpe	20 2	10J4sJ	10020s	1s1s- s	10J7- 7	1R20	OI P
d. iqe C. E	121 1	1J7S	2S27	22- 4	2S0S	0RSJ	OI P
dIPp. qO	07 2	J7S	s71	JJ0	J- -	0RJ	OI P
BI lqpe	1- 7 1	1s1Ss0	1s41SS	1s22- 7	1s2404	SRs-	OI P
BI lqpe	1- 0 1	- 1s777	- 2J11J	- 24S2S	- 2- sJs	1R6-	OI P
BpIENqpe	J 1	1JSS	1s0S	1Js1	1J10	- RSS	OI P
BqPe biG	2SJ 1	07s2S0s	04- 2S- 4	6J7S060	0- 21626	4R7S	OI P
BqPe biG	2SJ 2	- - 7422s	- - 6JJ- s	- S4SSSs	- 274027	7R02	OI P
BICe q p	s1 1	71SJ	4s4-	7SS1	4Js4	2R6J	OI P
9 I ne qpe	1Ss 1	0J	ss	0J	s2	7Rs0	OI P
9 I ne qpe	1S6 1	41S1	4471	- J71	4160	6R16	OI P
9 I ne qpe	111 1	027	046	sS6	07J	7R7-	OI P
9 I NQqpe	4- 1	47S114	46Ss4-	47220J	474412	1R27	OI P
9 I NQqpe	44 1	07- SS- 2	0JS07- 0	06JSS67	00SJ211	2R46	OI P
9 I Ir C.	12 1	262- 1s-	20S- J24	20112- 6	260J44s	1Rs2	OI P
9 I Ir C.	12 2	- 2ss0	- 16s7	- 1626	- 2S66	2R22	OI P
9 GNCIq p	- 7 1	2746- 141	2J6J61J7	- 17s12Ss	2sJ1- 717	1SRs4	OI P
9 GNCIq p	- 7 2	2- 107J	2- 4S- 6	24S1- 7	2- 7- 1S	1Rs4	OI P
9 GICe qpe	72 2	24ss7	24sJs	27SsJ	24J70	SR46	OI P
9 Cr I N	7J 2	1S0- 0	1Ss- 4	1Ss11	1S0J4	SR40	OI P
9 Ct pI	6- 2	217sS	21706	22- 04	21s44	2R1S	OI P
TEPt ICPqpe	176 1	716J-	7S147	717- 4	71124	1R60	OI P
TEPt ICPqpe	176 2	21S2S	2SJ6S	2SJ- S	2SJ0S	SR22	OI P
UIr qpe	164 1	- 7024	- 466-	- 64s4	- 762-	2R70	OI P
UIr qpe	164 2	14611	144S7	14214	1441S	1Rs	OI P
HI nCNqqpe	16S 1	411s1	42s44	42061	42262	2R22	OI P
HI nCNqqpe	16S 2	2S42J	2S102	2S0S6	2S4- 6	1R 1	OI P
h CNe qpe	167 1	1S07- sS1	1S- 6S- S1	1S1s60- S	1S4- - 611	2R0s	OI P
h CNe qpe	167 2	4- 44S61	4- J1S01	4S1S07J	424s6- S	4Rss	OI P
& nqpe	117 1	001s- J6	06J1SS0	044S402	0616627	2RS1	OI P
& nqpe	117 2	JJSJ7-	JJ4610	sJJJs0	J61s72	7R70	OI P
&C.	74 2	s6- 2Ss	s7s64-	s0S0J6	s64216	SR01	OI P
&C.	76 2	160J047S	16sS2Js6	16J7S6Ss	16s7S- 4s	SR72	OI P
&C.	70 2	- J67J4	- J0224	- JsJ4s	- J07ss	SR 1	OI P
KIEt iC.	s- 1	- 66	- 1S	- S4	- 20	1SR74	OI P
LpI n	2S6 1	120164	12- JSJ	12sJ41	126602	2RS1	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t Np:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t Np:&T:a	y h SMS7	TdNiqC. :M OCI:a	1
TI ip:A:coe p:dOobdpn:a	2S2- S0 12:1Ja7sa-0	TI il MdNp:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
LpI n	2S0 1	Js4S7	JJSSJ	1S1- 2S	JJ70s	1R77	OI P
LpI n	2Ss 1	4s7616	4sSJs1	4sJ0- 1	4s744-	SR1S	OI P
LqGdpe	6 1	20SJS60	2660704	26S0216	26612s6	1R12	OI P
y I g. pPdpe	24 2	sSs017	sSS41S	s1242-	sS01s2	SR06	OI P
y I . gI . pPp	77 2	4S77SJ	4S0J44	411- 06	4Ss200	SR02	OI P
y CNEr np. be	J4 1	12Js1	126- J	1- S76	12sJ2	1R02	OI P
y CNEr np. be	J7 1	- - 60	- 242	- 471	- - 7-	- R1-	OI P
y CNEr np. be	J6 1	76S1	774-	4JJ-	7- 0J	6R24	OI P
y CNEr np. be	J0 1	2107	2S42	21J2	21- 6	- Rs7	OI P
y CNEr np. be	Js 1	771S	7s- 7	711s	74s0	6R74	OI P
mpOnEe dpe	17S 1	sJJ66	JSS26	J1Ss2	JS- 7s	SR6J	OI P
mpOnEe dpe	17S 2	2067J	202- 1	207Ss	20466	SR0J	OI P
mqOkpN	6S 2	4s71	4664	4J41	4s1J	2R1-	OI P
uGOPt GOIbP	- 1 2	1442	1- Ss	1- SS	1- 7S	7R3J	OI P
uOI PPdpe	- J 2	14- 00s	146s0s	14J41s	1466J1	1R1-	OI P
FGOndpe	1S- 1	0sS72- J	0627040	0- 4S7- S	07JS7S7	- RSJ	OI P
FGOndpe	1S- 2	- 4- 746s	- 4S02sJ	- S46s01	- 2J674-	6R70	OI P
DOI . ndpe	47 1	7Ss- S00	7140202	4s40s76	7S26S6J	- R14	OI P
DOI . ndpe	47 2	14s062	14JSS-	1- s774	1474- J	4R1S	OI P
DpNp. dpe	s2 1	2S	02	77	4J	74R0	OI P
DpNp. dpe	00 2	1SS	J0	12S	1S6	11R37	OI P
DpNp. dpe	0s 2	J-	61	J-	s2	22R44	OI P
DqNDC.	2s 1	0J7s- 1s	s1JJs0S	sSsJ167	sSs2471	1R7S	OI P
DqNpI	1S0 1	042	ss-	s07	s- -	JR74	OI P
DqNpI	1SJ 1	6J2	s27	6- -	010	1- R01	OI P
DOndpe	2- 2	4- s16	47740	4- 0s-	44- s2	2R20	OI P
DiIC. idpe	s6 1	s- 010	s7sss	s62J1	s72JJ	1R62	OI P
DiIC. idpe	ss 1	0- 4sS7	07SS01	0714s7	04747-	1R24	OI P
DbNbI	- 4 1	20J- J0	2sS2J1	2s- 4JS	2s1S7J	SR00	OI P
cpIr dpe	17J 1	111- 17S-	1Ss- 24JJ	1S- S0276	1S070Ss6	- Rss	OI P
cpIr dpe	17J 2	4204sJS	4- 6S0- 1	- s66471	4160- 70	6R 4	OI P
cGI NNpe	2S- 1	11- -	117S	1160	117S	1R47	OI P
cGI NNpe	2S7 1	- 110	26- 4	2ss4	2s0s	sR4S	OI P
cq	11s 1	- 202-	- - - 41	- - 607	- - 240	1R47	OI P
cqI . dpe	40 1	26227S	20SJ7-	26- 2- J	2674sS	1R0J	OI P
5 II . dpe	2- s 1	- 404S	- 6- S2	- 70J-	- 7612	2R24	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCl:a	wI P8 I N
LI r :DI e t Nb:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Nb. i:DI e t Nb:&T:a	y h SMS7	Tdbiq C. :M OCl:a	1
TI ip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja7sa-0	TI il MdbN:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	16s4S	16JsS	160s0	16s6J	SR7J	Cl P
Yiiplr dpe	102 1	1SS21	1S101	Js74	1SS17	1R7s	Cl P
Yiiplr dpe	102 2	71J6	7S4S	71S1	7112	1R7-	Cl P
Yiiplr dpe	106 1	0s1J	sS7-	s111	0JJ4	1R4-	Cl P
Yiiplr dpe	106 2	17- 2S	17SJs	14264	14sJ4	- R04	Cl P
Yiild pe	sJ 1	14711J42	14- 2212s	14SS6670	142sS242	1R0J	Cl P
Yiild pe	sJ 2	1464407	147646s	1- S0s- S	14SJ7J1	6R26	Cl P
Zq O	66 2	22s- 2	22J77	22J6J	22J1J	SR-	Cl P
ZdOC. dpe	JS 1	2sJ40	2J- JS	2Js04	2J4S4	1R7s	Cl P
ZdOC. dpe	J1 1	7J06	6J72	6s00	66S2	sR22	Cl P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUS6	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCmb	20 2	47620	44776	47716	472- -	1MS	dDw
qCTb nCh	121 1	4- -	460	6- -	711	2SM6	dDw
qpwr Cd	07 2	2E-	2NS	267	20E	7M2	dDw
Bspmb	1- 7 1	42E61	446N-	42- 27	4- - 2-	2M2	dDw
Bspmb	1- 0 1	066SS	06026	06117	064N1	SM2	dDw
Br phPmb	E 1	6N1	6N0	0- S	0SS	- M0E	dDw
Bcvb mTG	2SE 1	024S6E2	02NN244	010- 4- E	02- 4127	SMS	dDw
Bcvb mTG	2SE 2	- S1S622	2EN7644	- S402E-	- S1472S	1M-	dDw
Bpmb dCr	N1 1	44- 4	47N4	477E	4726	1M0N	dDw
5 sob mb	1SN 1	21	01	27	- E	01M4	dDw
5 sob mb	1S6 1	41N4	- E- 4	4SN4	4S60	- MSE	dDw
5 sob mb	111 1	774	4EN	766	7- E	6M2	dDw
5 sPdmb	4- 1	1- - 27S	1- 4124	1- - 07S	1- - 0SN	SM-	dDw
5 sPdmb	44 1	22E72S7	2- 7S61-	2- - 7- E6	2- 20S01	1M4-	dDw
5 spenC	12 1	2442- SE	2461- 6S	2472SS7	2471NE1	SME	dDw
5 spenC	12 2	2NE6-	2N60E	2ESS4	2NNN2	SM01	dDw
5 GPmpdCr	- 7 1	27- 00107	2E4SN076	- 1E7- 216	2NE1- S4E	11M40	dDw
5 GPmpdCr	- 7 2	2- 2S- N	2- 1466	24- 42N	2- 7644	2M6	dDw
5 Gpmb mb	72 2	- NSE	20- S	2N04	- 1- N	1NM0N	dDw
5 nesPT	7E 2	27ES	2444	20S4	270E	7M6	dDw
5 nDDr p	6- 2	7201	7- 24	7- EN	7- - 1	1ME	dDw
&hwDpnwmb	176 1	177E-	1706S	17- 26	1777E	1M41	dDw
&hwDpnwmb	176 2	6- N7	620N	64S7	6- 76	1M0	dDw
Fpemb	164 1	12276	11N- 1	11002	11E7-	2M21	dDw
Fpemb	164 2	4644	4661	4014	460-	SM0N	dDw
HsonPCmb	16S 1	1- - S0	1- - 4E	1- 6E1	1- 44E	1M70	dDw
HsonPCmb	16S 2	66NN	6267	6407	6406	- M20	dDw
y nPb mb	167 1	1S4- SS40	1S4711- 0	1S- NN4N1	1S42- 222	SM1	dDw
y nPb mb	167 2	- 07- 44E	4SS21NN	- N24122	- N7EE2S	- M2	dDw
tComb	117 1	004- EES	06N2- S7	00E7221	004S7S6	SM0-	dDw
tComb	117 2	N6E1E4	ES4N1E	NN1- SS	NN71S4	2M7	dDw
tpnC	74 2	2NE7- -	2N0404	2E477S	2ES71E	1M27	dDw
tpnC	76 2	7N207E2	762E0E1	76N7SS0	70141- S	1M0E	dDw
tpnC	70 2	1- - 20E	1- 1101	1- - ES0	1- 20N7	1M3N	dDw
KphDTnC	N- 1	2E2	272	- S7	2N-	EM0N	dDw
Lr so	2S6 1	27S41	27- S-	27- 40	272- S	SM06	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUS6	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:usb r:J	147q. FUM

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S0 1	1E706	2S4- -	1EEN2	1EEE0	2M14	dDw
Lr so	2SN 1	E617-	EN-74	E670S	E0S26	1M2S	dDw
LdTGmb	6 1	26SESE4	2702601	27N17N1	27N00N2	SM0-	dDw
9 sgOr wcmb	24 2	214712	2S6E26	2161N1	21274S	2M12	dDw
9 sOgsOr wr	77 2	2S2N41	1E717E	1EE760	1EE1NE	1M44	dDw
9 nPheor Cmb	E4 1	- ESE	42E2	404-	4- 17	EM60	dDw
9 nPheor Cmb	E7 1	1007	1N10	1E- 4	1N42	4M46	dDw
9 nPheor Cmb	E6 1	2210	2160	2- - 4	22- E	- M12	dDw
9 nPheor Cmb	E0 1	1S10	E- -	E07	E07	4M20	dDw
9 nPheor Cmb	EN 1	27N4	267E	2660	26- 6	1M04	dDw
u r nohb cmb	17S 1	274EN	260SS	26S72	26SN-	2M1	dDw
u r nohb cmb	17S 2	0N- E	0006	0ES2	0N- E	SMM1	dDw
u cdkr P	6S 2	N40	NE0	E7-	NEE	7M44	dDw
8 GhwDGhpmw	- 1 2	427	4N-	442	47S	6M6N	dDw
8 nTswwcmb	- E 2	42SE7	- EE22	4121N	41S0E	2M06	dDw
. Ghocmb	1S- 1	00- - N4E	001SNNS	06466E6	06E0142	SM7E	dDw
. Ghocmb	1S- 2	2E0- 767	- SES07S	- S- N770	- S- 42E1	1M4-	dDw
I dsCocmb	47 1	4ES1ES-	4NE4S- S	4ESSN67	4NENE- -	SM3E	dDw
I dsCocmb	47 2	12N- - 4	1- 7NE1	1- 1- 67	1- 1N6-	2MMN	dDw
I r PCcmb	N2 1	14	NS	- 2	42	N1M7	dDw
I r PCcmb	00 2	20	2-	4S	- S	2EM4S	dDw
I r PCcmb	0N 2	2N	- -	20	2E	1SM46	dDw
I dcdnC	2N 1	- 217S47	- 1E022S	- 2S2642	- 2S4E6E	SM2E	dDw
I dPr p	1S0 1	4- -	- 7S	- 10	- 60	16M1E	dDw
I dPr p	1SE 1	27N	2N-	2N-	207	7M27	dDw
I nocmb	2- 2	- 012-	- 70E7	- 771E	- 6147	2M0	dDw
I TpnCTcmb	N6 1	1N6NS	1EES6	1E422	1E- - 6	- M2S	dDw
I TpnCTcmb	NN 1	166S67	164- 7E	167SN0	16710S	SM72	dDw
I mPmp	- 4 1	2E2N27	2ES- 4S	2E- 614	2E226S	SM7N	dDw
Ar pecmb	17E 1	1S76SNE2	1S4116SN	1S4N7EN0	1S4N6162	SM01	dDw
Ar pecmb	17E 2	- 67247S	- N- 1E4-	- 6N7462	- 02- 2N7	2M70	dDw
AGsPPcmb	2S- 1	- E2	4- -	227	- 7S	- 1M7S	dDw
AGsPPcmb	2S7 1	NE2	NSN	1S10	ES6	11M7N	dDw
AdC	11N 1	2027	27E2	247E	27E2	7M14	dDw
AdsCcmb	40 1	6- 616	67N72	67471	64E0-	1MM-	dDw
RpsCcmb	2- N 1	11- 64	121- 1	11- NS	11627	- M0	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUS6	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:u sb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	71 2	- 2E0	- S- 4	- 400	- 26E	6NM2	dDw
YTTr pe omb	102 1	- N06	- N26	- NSE	- N- 0	SNMS	dDw
YTTr pe omb	102 2	1E47	16NE	1047	10E-	0M7S	dDw
YTTr pe omb	106 1	- 0N4	- 27E	- 6SE	- 771	0M7-	dDw
YTTr pe omb	106 2	11SE4	110S6	11711	114- 0	2M0-	dDw
YTTpomb	NE 1	14S76S- 1	1- 6- - E6N	14S4S6N6	1- E1S22N	1M02	dDw
YTTpomb	NE 2	117- 6E2	12N67E-	11N64E2	12SNE26	7M0-	dDw
ZdCd	66 2	11- 11	11- 4N	1122N	112E6	SM74	dDw
ZqpdnComb	ES 1	ES61	E70E	E4S-	E- 4N	2MM1	dDw
ZqpdnComb	E1 1	2- E2	2S7E	227S	22- 4	0M4E	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUN2	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r:J	146q. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb dCcmb	20 2	04S6S-	0- 470-	0277SN	0- h161	SM0-	dDw
qCTdb nCE	121 1	- SS7	- 2S7	- 172	- 1- 0	- M14	dDw
qpwr Ccd	0h 2	4N- N	4044	40- 4	4002	1M2S	dDw
Bspcmb	1- h 1	h0- 161	h71h1h	h06h17	hNS- 7N	1M6N	dDw
Bspcmb	1- 0 1	1S1472S	1S44701	1S1N664	1S261Nh	1M6S	dDw
Br pEPPmb	7 1	2670	2027	2071	20- 7	1M04	dDw
Bcvb mTG	2S7 1	6NNS172	6N74NN7	0166606	67NShN6	2M1	dDw
Bcvb mTG	2S7 2	- - 00h66	- 417hh1	- 2N070N	- - 6167N	2M8S	dDw
Bpmb dCr	N1 1	67- h	0h20	N- 17	0h74	7M1h	dDw
5 sob cmb	1SN 1	10h	172	1h4	104	1SM12	dDw
5 sob cmb	1S6 1	44- 4	4172	44h7	4- 62	- M1N	dDw
5 sob cmb	111 1	2107	2S2-	2110	21S6	- M0h	dDw
5 sPdcmb	4- 1	- 114- 1	- 2120-	- 1N- h1	- 10S1N	1M17	dDw
5 sPdcmb	44 1	h- 26S0S	hh- h1SN	h472h40	h4h1241	2M8-	dDw
5 spenC	12 1	400S421	47h7hh7	470hN00	47S17h2	2M-	dDw
5 spenC	12 2	h7h- N	hNN17	h77- 1	h7427	SM7h	dDw
5 GPmpdCr	- h 1	2h11211N	27- 2606h	- 1- - 762h	2Nh72N- 6	11M11	dDw
5 GPmpdCr	- h 2	226S2N	220716	2- Sh- S	22N1hN	SM77	dDw
5 Gpmb cmb	h2 2	47606	h1SN4	hS2hh	hS- - N	1M41	dDw
5 nesPT	h7 2	6hN62	6407S	641S4	6471N	1M6	dDw
5 nDDr p	6- 2	1h- N21	1h2117	1h2h70	1h2N46	SM10	dDw
&EwDpnwcmb	1h6 1	0- hS2	06612	0676-	0h672	2M12	dDw
&EwDpnwcmb	1h6 2	- 1474	- 1- S0	- 120-	- 1- hN	SM1N	dDw
Fpecmb	164 1	62- Sh	64NN-	6427S	6- N26	2M12	dDw
Fpecmb	164 2	261N6	247NS	2h261	2h406	2M4N	dDw
HsonPdCcmb	16S 1	666N4	6N116	67SS4	607- h	1M02	dDw
HsonPdCcmb	16S 2	- 220-	- 1712	- 1- N4	- 1Nh6	1M4S	dDw
y nPb cmb	16h 1	1SSS2S- h	77N0160	1S260617	1SSNh6S0	1M16	dDw
y nPb cmb	16h 2	44hSh12	4- 17202	4- 7- 6S1	4- N007h	1M1S	dDw
tCocmb	11h 1	0- - 6444	021h7h0	04S0SNS	0- 17N20	1M12	dDw
tCocmb	11h 2	1SShh7h	1SS074h	7NSS1h	770Nh2	1M1h	dDw
tpnC	h4 2	- Nh40- S	- 712h66	- NNh4S1	- NN42- 2	SM04	dDw
tpnC	h6 2	6770- S1h	67776S07	6N0Nh220	67hN4004	1M8S	dDw
tpnC	h0 2	1NS0h- 6	10N0S14	1006- 26	107S272	SMM7	dDw
KpEDTnC	N- 1	- - 6	- - S	- 46	- - 0	2M4-	dDw
Lr so	2S6 1	4440h4	4h6- 72	4hSS- -	4hS- 7-	1M27	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN2	&dPnTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r:J	146q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	- 677h7	- 0N164	- 06071	- 04702	1M10	dDw
Lr so	2SN 1	104- - S0	1007- hS	10602S7	106- 2N7	1N84	dDw
LdTGmb	6 1	26206S-	261SN6N	26hSh- 6	2627667	SN06	dDw
9 sgOr wcmb	24 2	N747- h	N047SN	N67h2S	N070NN	1M12	dDw
9 sOgsOr wr	hh 2	N412S7	N2h0N6	N2- 642	N- S212	1M1h	dDw
9 nPEeor Omb	74 1	2S2- 2	2S104	17- - 7	1771h	2M11	dDw
9 nPEeor Omb	7h 1	60- h	0- Nh	6074	6701	hM16	dDw
9 nPEeor Omb	76 1	1SS46	7NN0	1Shh4	1S162	- M4-	dDw
9 nPEeor Omb	70 1	4- - 4	4006	4- h7	447S	hM1-	dDw
9 nPEeor Omb	7N 1	11h40	110- 7	110- 7	1160h	SM7h	dDw
u r noEb omb	1hS 1	12S4S1	12427S	12- 10-	122622	1M4-	dDw
u r noEb omb	1hS 2	- 0- h7	- 6014	- 647S	- 6Nh4	1M12	dDw
u cdkr P	6S 2	- 6- 0S	- h71h	- 6SN6	- 6124	SM04	dDw
8 GhwDGhpmw	- 1 2	6- 1N	667-	606S	6h71	- M61	dDw
8 nTswwcmb	- 7 2	- 14SS6	- 17h4h	- 12NN7	- 1h4NS	1M1-	dDw
. Ghocmb	1S- 1	02N- 602	0- 17S1h	0- N4770	0- 2722N	SM0S	dDw
. Ghocmb	1S- 2	- 411S10	- h1Shhh	- - 16027	- 412060	2MN4	dDw
I dsCocmb	4h 1	47N2S42	40472- 4	hS7SSN1	474S4h2	- M1-	dDw
I dsCocmb	4h 2	1h20S-	1h62hh	1hSN0S	1h- 206	1M07	dDw
I r PPCmb	N2 1	207	220	204	26S	1SMN0	dDw
I r PPCmb	00 2	140	14-	1hS	140	2M20	dDw
I r PPCmb	0N 2	1- 0	1SN	12-	12-	11MN2	dDw
I dPdnC	2N 1	12h066N6	1- 14Nh46	1260- NNS	120770S4	2M17	dDw
I dPr p	1S0 1	2072	2NS7	2642	204N	- M14	dDw
I dPr p	1S7 1	2660	2hN4	2042	2664	2M10	dDw
I nocmb	2- 2	74- 6-	7- 441	74- 21	74S42	SM1h	dDw
I TpnCTcmb	N6 1	- S4Sh1	- S676S	- Sh24h	- Sh417	SM1N	dDw
I TpnCTcmb	NN 1	2071027	27S261h	2070h70	2N- S640	2M1S	dDw
I mPmp	- 4 1	- S2- N-	27N- h0	27hNNh	27NN0h	1M1S	dDw
Ar pecmb	1h7 1	1S227100	1S1hSNN1	1Sh74617	1S- 24N72	2M17	dDw
Ar pecmb	1h7 2	42111- S	4171111	41h7667	41N0- S-	SM02	dDw
AGsPPcmb	2S- 1	2672	26hS	2472	2611	4N84	dDw
AGsPPcmb	2Sh 1	6120	6020	64- h	64- S	4M60	dDw
AdC	11N 1	7N12	7hh4	1ShNN	77N4	hM17	dDw
AdSCcmb	40 1	02h26	0h0- 4	04- 4-	042S1	2M10	dDw
RpsCcmb	2- N 1	N6- 26	72274	7S4N2	N70S1	- M41	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or Tusb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN2	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r :J	146q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h1 2	Nh- S2	Nh470	Nh6- 1	Nh400	SM17	dDw
YTTr peomb	102 1	1720-	17766	17N7S	1701S	1M1-	dDw
YTTr peomb	102 2	7N26	72- 0	767N	7hN0	- M4-	dDw
YTTr peomb	106 1	1- 177	14S16	1- 2h0	1- 471	- MN	dDw
YTTr peomb	106 2	1N- 71	1N670	1060-	1N2h4	2MMN	dDw
YTTpomb	N7 1	14h- 0064	141h6621	14267- 6h	14- 212hS	1M0	dDw
YTTpomb	N7 2	1h- S02-	1h22166	14727S2	1h1h264	1M1	dDw
ZdCd	66 2	06626	0hN22	0h10h	0hN04	SM16	dDw
ZqpdnComb	7S 1	42N2h	44276	4h4SS	44104	2M12	dDw
ZqpdnComb	71 1	72- 0	7h07	7612	7406	2M17	dDw

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LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
LwrJDwe t 8pJ8TJaJ	3 - 447 S:	& l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	T8biqC. JMwOlClJa	1
TwipJAJcqe pJdOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMt8pJmwe pJa	140dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	20 2	11uS0- 7	1Su61: 6	1Su274:	1116614	4R7u	Ol l
d. iqe C. E	121 1	10: 4:	1u4uS	1u6- u	1u221	- R24	Ol l
dll p. qO	0: 2	u76:	u722	u0- u	uu0:	1R 6	Ol l
Bwldpe	1- : 1	7- - 2u1	7: 0- 76	74- - 16	74466:	1R2u	Ol l
Bwldpe	1- 0 1	102u240	1u47722	104: - uu	1004: 17	- R01	Ol l
BplE8dpe	7 1	: 6S7	: 000	: 6- :	: 604	1R 7	Ol l
Bdqe biG	2S7 1	047: Su:	02: 4- : -	01S0406	02u: 6- u	2R67	Ol l
Bdqe biG	2S7 2	- S: : S6u	- 2707- 2	- - : - 2u2	- 2- : 420	4R7S	Ol l
BlCe q p	u1 1	u0u6	u7- 6	uu7:	uu02	SRu0	Ol l
9 wne dpe	1Su 1	: SS	: 10	: S4	: S0	1R01	Ol l
9 wne dpe	1S6 1	40S7	46- 4	4u7-	404:	2RuS	Ol l
9 wne dpe	111 1	6202	6S: -	6- 46	6224	2R4:	Ol l
9 w8Odpe	4- 1	uu6S40	7S200S	uu60u6	u71u60	1RS6	Ol l
9 w8Odpe	44 1	1: 1S2- 1:	1: 4: S774	1: 2- 64u:	1: 26- 26:	1R1:	Ol l
9 wlr C.	12 1	0170624	044u: S2	06: u1S6	04- 4044	- R1S	Ol l
9 wlr C.	12 2	uuu20	uu0: 1	u7S- 6	uuu01	SR10	Ol l
9 G8Clq p	- : 1	24614- 7-	2u: - 1SS6	- SSu: - 07	2004- : 72	1SR16	Ol l
9 G8Clq p	- : 2	21uS60	221S74	226S: -	2210- u	1Ru2	Ol l
9 GlCe dpe	: 2 2	6uu: :	6u- - 2	6uS04	6u42S	SR u	Ol l
9 Cr w8	: 7 2	44S21	4- 064	4- - 6-	4- 016	SR06	Ol l
9 Ct t pl	6- 2	27u1- 6	2u0- : 7	2u0774	27116-	2RSu	Ol l
TEl t lCl dpe	1: 6 1	uS7- 0	u2771	u12- u	u1022	1R 6	Ol l
TEl t lCl dpe	1: 6 2	- - 2: 1	- 27u1	- - 07-	- - - 42	1R24	Ol l
Ulr dpe	164 1	62Suu	62604	62766	62: 06	SR01	Ol l
Ulr dpe	164 2	24710	24606	24: S7	240S1	SRu-	Ol l
HwnC8q dpe	16S 1	0S11u	0S66-	67u66	0S216	SR u	Ol l
HwnC8q dpe	16S 2	- - : - 2	- 247-	- 1664	- 2: 6-	2Ru0	Ol l
h C8e dpe	16: 1	1S0u: 062	1S: 2u7u0	1S: u0- S-	1S6- 4S10	1R20	Ol l
h C8e dpe	16: 2	- 722u01	427S: 60	4- S40: -	41020- S	: R17	Ol l
& ndpe	11: 1	0uS: S7u	0- : 7704	04: : 421	0: 4S164	- R11	Ol l
& ndpe	11: 2	u0- u70	767477	701S10	7- u1- 0	: R7-	Ol l
&C.	: 4 2	- 2uS- 7-	- 2S- u4:	- 2- 161u	- 2- u617	1R2S	Ol l
&C.	: 6 2	: u- SSS07	: u76- - 44	: 67012u:	: uS0u2- 6	1R0:	Ol l
&C.	: 0 2	1402: - :	1: - S0S-	14: 10: -	14u4770	2R06	Ol l
KlEt iC.	u- 1	- 47	- 61	- - 7	- : S	- R2-	Ol l
Lpwn	2S6 1	4Su46- 7	41060S4	41S7S41	412- 461	1R16	Ol l

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LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 - 447 S:	&l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	T8piqC. JMwOlClJa	1
TwipJAJcqe pJdOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMt8pJmwe pJa	140d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S0 1	- - 422u:	- 4S: 72:	- - 01- 64	- - 0- 171	SR74	Ol l
Lpwn	2Su 1	1: 0: 406S	1: uu4741	1: 6717u0	1: 0002- S	SR62	Ol l
LqiGdpe	6 1	262: 6- 1	26: 166-	261SS2-	26271S:	SRuS	Ol l
y wg. pl dpe	24 2	12- : 42:	12S6110	117062:	121- S: 6	1R6-	Ol l
y w. gw. pl p	: : 2	121- 1u-	11u164S	1107: S:	117144-	1R u	Ol l
y C8Er np. be	74 1	2622:	2601S	267- :	2662-	1R 6	Ol l
y C8Er np. be	7: 1	14141	14- : S	14- 71	14274	SR74	Ol l
y C8Er np. be	76 1	1u201	17S- u	1u4- u	1u: u2	2R10	Ol l
y C8Er np. be	70 1	uu7:	7- 4:	740S	72- 0	- R2u	Ol l
y C8Er np. be	7u 1	220: -	227: -	226S2	22067	SR00	Ol l
mpOnEe dpe	1: S 1	1- u6S-	1424uu	1- 71- 6	14SS06	1R S	Ol l
mpOnEe dpe	1: S 2	41440	41S7-	4S- 74	4S70u	1R 1	Ol l
mqOkp8	6S 2	2: 2: 6	2: - 6-	240- 2	2: 110	1R 4	Ol l
NGOl t GOlbl	- 1 2	u12u	0474	0: S2	00Su	4R02	Ol l
NOiwl l dpe	- 7 2	: 42222	: 26166	: - 2- 71	: - - : 7-	1R 2	Ol l
F GOndpe	1S- 1	00471u:	061u2: S	046: 627	0611S21	1Ru6	Ol l
F GOndpe	1S- 2	276uu26	- 2000- -	- - uu4S-	- 2116: 4	6R00	Ol l
DOw. ndpe	4: 1	: S022: 0	476u- 02	474S26S	477- 6- S	1R 7	Ol l
DOw. ndpe	4: 2	1- - 67-	14474u	146u77	141u46	: RS-	Ol l
Dp8p. dpe	u2 1	167	2S2	20S	214	24R12	Ol l
Dp8p. dpe	00 2	16S	1: S	1: -	1: 4	- R S	Ol l
Dp8p. dpe	0u 2	141	126	121	127	uRS:	Ol l
Dq8qOC.	2u 1	144u1020	14uS: 7: 2	1462S44-	146- 6S41	1R11	Ol l
Dq8vpl	1S0 1	7712	1SS07	1SS: 4	1SS1:	SR7S	Ol l
Dq8vpl	1S7 1	74u0	1S2- 0	704:	7u2-	- Ru	Ol l
DOndpe	2- 2	1: 2S07	14021-	14u14S	147144	1R0-	Ol l
DilC. idpe	u6 1	6u- S: 0	6u: - 00	661: 6S	60666:	1R74	Ol l
DilC. idpe	uu 1	61u4611	6170042	6S471- 7	614- u- S	1R 4	Ol l
Db8bl	- 4 1	- 41- 14	- 401: :	- 4u: 2S	- 4: 66-	1R11	Ol l
cplr dpe	1: 7 1	111S0S70	1S6- 1464	1S67- u: u	1Su1SuS6	2R 7	Ol l
cplr dpe	1: 7 2	- 6744: u	42- 4267	4- S4: u1	4S00067	uR17	Ol l
cGw8pe	2S- 1	- S60	2uS7	2642	2u- 7	0R 4	Ol l
cGw8pe	2S: 1	626u	6667	6: u:	6: S0	- R24	Ol l
cq	11u 1	uu0- S	727u-	7S: 42	7S0: 1	2R :	Ol l
cqiw. dpe	40 1	411u6u	41622S	410146	41: S0u	SR6u	Ol l
5 lw. dpe	2- u 1	02: 71	0: u44	0- S- :	0- u2-	2R 7	Ol l

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LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 - 447 S:	& l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	T qbiqC. JMwOlClJa	1
TwipJAJcqe pJdOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMqbJmwe pJa	140d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Vw. wndpe	: 1 2	714: 0	7Su46	u742S	7S: 04	1R1:	Qtl
Yiiplr dpe	102 1	174S6	177S0	1740-	17: 7:	1R7	Qtl
Yiiplr dpe	102 2	7- 2S	u072	7114	7S0:	2R7-	Qtl
Yiiplr dpe	106 1	1- 4: 0	14216	1- 624	1- 066	2R7S	Qtl
Yiiplr dpe	106 2	16221	102- 4	104S6	167: 4	- R0u	Qtl
Yiildpe	u7 1	1: 1- 2S00	146: 46u6	14- u4264	1402- 606	2R0	Qtl
Yiildpe	u7 2	1- 0- S2u	14: 0- 40	1406u42	14- : 0- 7	- Ru4	Qtl
Zq O	66 2	- - 74S1	- 2707u	- - S: - S	- - - 24-	1R6S	Qtl
ZdOC. dpe	7S 1	47: 64	477Su	4u74:	47402	SR7	Qtl
ZdOC. dpe	71 1	111uu	11422	11S- S	1121-	1R06	Qtl

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or Tu sb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN4	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdPP:u sb r:J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	20 2	0N16hS	00NN72	007N17	0NS12S	SM1N	dDw
qCTb nCE	121 1	h24-	h- Nh	h2h1	h27-	1M1S	dDw
qpwr Ccd	0h 2	6672	6N44	6hN6	60SN	1M7-	dDw
Bspcmb	1- h 1	6S- 4N7	6SS417	hNN04S	h70h47	1M1S	dDw
Bspcmb	1- 0 1	1S01N72	1S41740	1S61Sh6	1ShN27N	1M4-	dDw
Br pEPPmb	7 1	- 212	- 4Nh	- 460	- - NN	4M1S	dDw
Bcwb mTG	2S7 1	01h676-	0272211	01- 7412	017617h	1M16	dDw
Bcwb mTG	2S7 2	- - 6- 2- 6	- 2N7h74	- - 6NhhN	- - 4S46-	1M2	dDw
Bpmb cOr	N1 1	N0- 6	712S	7N4h	72- 4	6M1S	dDw
5 sob cmb	1SN 1	227	- 21	2- N	26-	17M1	dDw
5 sob cmb	1S6 1	4hS1	4- 6N	42S1	4- h6	- M4h	dDw
5 sob cmb	111 1	20S2	2712	2060	2074	- NMh	dDw
5 sPlcmb	4- 1	4h0NSS	4h66- 7	4470h1	4h40- S	SM76	dDw
5 sPlcmb	44 1	060S4S0	0044204	0hShh- 0	064SS02	1M6S	dDw
5 spenC	12 1	- 0- 6N- 7	- N407h-	- N- 1- 20	- NSh- 0-	1M10	dDw
5 spenC	12 2	4- 7hN	4hSN6	4h0NS	44741	2N8h	dDw
5 GPmpcOr	- h 1	241- 4h- 6	20N- - N6S	27N62470	20206764	1SM6h	dDw
5 GPmpcOr	- h 2	211S46	2100h-	222447	210SN2	2M64	dDw
5 Gpmb cmb	h2 2	4h7SS	4hS21	4hh12	4h40N	SM70	dDw
5 nesPT	h7 2	4- 14h	42426	4- S- 2	42N6N	SM7S	dDw
5 nDDr p	6- 2	1h6S- h	1h02SS	1hh1hN	1h61- 1	SM66	dDw
&EwDpnwcmb	1h6 1	N- N- 0	N21S-	N2N66	N27- h	1N8h	dDw
&EwDpnwcmb	1h6 2	- - 646	- 4hS4	- 41S4	- 4SNh	1M26	dDw
Fpecmb	164 1	6h476	6- S06	64706	64h16	1M70	dDw
Fpecmb	164 2	2hh- h	2h2h0	2h120	2h- S6	SM12	dDw
HsonPCcmb	16S 1	027hS	04424	024- 7	0- 201	1M41	dDw
HsonPCcmb	16S 2	- 4Sh4	- - 44h	- 4- - N	- - 74h	1M4	dDw
y nPb cmb	16h 1	1S16h606	1S2h26S6	1S- 6S626	1S2h76- 6	SM7h	dDw
y nPb cmb	16h 2	4- hhN20	427S- N2	426472N	4- S- 012	1N87	dDw
tCocmb	11h 1	01h4- hS	047274N	0hSh44N	0- N4247	2M0S	dDw
tCocmb	11h 2	76N1- 1	76Nh0-	7h76N-	76h46-	SM12	dDw
tpnC	h4 2	2NN- 716	27S6hN-	2Nh21S7	2NNSN0S	SM7h	dDw
tpnC	h6 2	h12N6- SN	hS44- 102	hS06227N	hSN- Sh7-	SMN4	dDw
tpnC	h0 2	12247N-	12S- - h7	12SSh21	12S7621	1M1	dDw
KpEDTnC	N- 1	- h4	- 40	- - 0	- 46	2M0	dDw
Lr so	2S6 1	1Sh07N7	1S44460	1S42714	1S4N4h6	SM07	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or TusbR:J	8 N
5 PR CTI sb DPP:t&:J	9 y SUN4	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdPP:usb r:J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S0 1	N67- Nh	N64h4h	Nh74N0	N64402	SM10	dDw
Lr so	2SN 1	4- 721hS	4- 0h702	426h760	4- 44670	1M1N	dDw
LdTGmb	6 1	26h- - S1	2641- 0h	26- 2142	2642202	SM4S	dDw
9 sgOr wcmb	24 2	N26161	N27S- N	N- - S11	N274S-	SM41	dDw
9 sOgsOr wr	hh 2	NN1201	N0- S00	N0- 7NN	N06112	SM11	dDw
9 nPEeor Omb	74 1	16N- 6	16- 7-	10161	16070	2M27	dDw
9 nPEeor Omb	7h 1	70N0	7NS4	772S	7N- 0	SM04	dDw
9 nPEeor Omb	76 1	12- N7	1- 17S	1267N	120h7	- M10	dDw
9 nPEeor Omb	70 1	62h2	6h1N	6h6S	644-	2M6S	dDw
9 nPEeor Omb	7N 1	1hN6N	1h6h1	16- 6S	1h76S	2M2N	dDw
u r noEb cmb	1hS 1	1402h-	1401Sh	14- N47	146S67	1M12	dDw
u r noEb cmb	1hS 2	4- 7S7	4- - N-	42N62	4- - Nh	1M21	dDw
u cdkr P	6S 2	26NN7	20SN-	261- 0	260S-	1MM0	dDw
8 GhwDGhpmw	- 1 2	- 0N4	4S- 4	- 642	- N2S	hM17	dDw
8 nTswwcmb	- 7 2	4- 02- 0	4260S7	4- - 0N-	4- 2h06	1M24	dDw
. Ghocmb	1S- 1	017- 1NS	027142h	04ShN61	0276N22	1M46	dDw
. Ghocmb	1S- 2	- 4S- 14S	- 27N4S4	- 27S0hh	- - - S066	1MM7	dDw
I dsCocmb	4h 1	4N1N7S2	4000S6h	4Nh1447	4N1hNSh	SM00	dDw
I dsCocmb	4h 2	14N147	14N06N	1406NS	14N177	SM10	dDw
I r PPCcmb	N2 1	1h6	1- 4	1- 1	14S	7MM1	dDw
I r PPCcmb	00 2	1h0	21-	140	102	2SMMN	dDw
I r PPCcmb	0N 2	11h	114	11N	116	1MMS	dDw
I dPdnC	2N 1	16S17h42	1611100-	1h0746SN	1h70h- SN	1MS2	dDw
I dPr p	1S0 1	4426	4606	4- h1	44N4	- MMS	dDw
I dPr p	1S7 1	44N4	4110	4110	424S	4M77	dDw
I nocmb	2- 2	02S12	0- Nh-	0- 2N4	0- ShS	1M27	dDw
I TpnCTcmb	N6 1	- h11h0	- h- SN-	- h1h01	- h17- 0	SM27	dDw
I TpnCTcmb	NN 1	- 2- 014h	- 20h4Sh	- 24- 226	- 2h1726	SM0-	dDw
I mPPmp	- 4 1	272S71	272hNS	27h1N6	27- 2N6	SM10	dDw
Ar pecmb	1h7 1	1S1- 2NS-	1S4607S7	1S2h6- 4S	1S2Nh6N4	1M6h	dDw
Ar pecmb	1h7 2	41hh610	41S1S71	422S210	41hN70h	1M4-	dDw
AGsPPcmb	2S- 1	2NN4	2N- 4	27- 4	2NN4	1M0-	dDw
AGsPPcmb	2Sh 1	0S20	6N- h	666S	6N41	2M6N	dDw
AdC	11N 1	- NN7N	4S24-	- 7N- 4	- 76hN	1M04	dDw
AdSCcmb	40 1	11NS67	11N7h7	114S74	110S4S	2M21	dDw
RpsCcmb	2- N 1	47hh6	hS01S	4707N	hSS21	1M22	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN4	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdP:u sb r :J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h1 2	Nh41-	N206N	N42- 6	N41- 7	1M1N	dDw
YTTr pemb	102 1	2S4hN	1N- 6-	17h6h	17462	hM4S	dDw
YTTr pemb	102 2	N6S7	N70h	N772	NNh7	2M4h	dDw
YTTr pemb	106 1	127N2	1- 1- 2	1- 447	1- 1N0	1MM1	dDw
YTTr pemb	106 2	10- 0-	1004S	10N76	10667	1M12	dDw
YTTpomb	N7 1	142071h2	142N1421	14h14- 06	14- hN- 16	SM74	dDw
YTTpomb	N7 2	14h1h67	14h2247	140SS0h	14h0764	SM02	dDw
ZdCd	66 2	71- - 6	72NNh	72174	721- N	SMM4	dDw
ZqpdnComb	7S 1	27h6h	- Sh42	27741	- SS16	1M64	dDw
ZqpdnComb	71 1	0Sh2	66Nh	6620	60NN	- M4S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 447 S0	tOwTpmb Or T.usb r:J	8 N
5 PrCTI sb DPP:t&:.J	9 y SUNh	&dPmTcnC:UsdTnp.J	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	20 2	4h2672	447440	440471	447N00	SM1N	dDw
qCTb nCE	121 1	- 6S7	- 10h	- - hS	- - 0N	6M46	dDw
qpwr Ccd	0h 2	2S67	2S60	2SN6	2S04	SM1S	dDw
Bspcmb	1- h 1	22NhSh	2- 077N	2- 4060	2- - 0h0	2M36	dDw
Bspcmb	1- 0 1	411S47	411671	41NN2h	41- Nhh	1M34	dDw
Br pEPPmb	7 1	12- 2	1- - 1	122h	126-	4M0S	dDw
Bcwb mTG	2S7 1	6N40762	67hSSN-	0SN611-	6761- N6	1M02	dDw
Bcwb mTG	2S7 2	- - 16h2S	- - h1h60	- - 61h6S	- - 4- 216	SM01	dDw
Bpmb cCr	N1 1	0S- h	0- h2	0274	0220	2M-	dDw
5 sob cmb	1SN 1	22h	10h	227	21S	14M0	dDw
5 sob cmb	1S6 1	- 0N4	- h72	- 7N4	- 0N0	hM10	dDw
5 sob cmb	111 1	26- 4	2004	2hS1	26- 6	hM17	dDw
5 sPlcmb	4- 1	401016	40644-	402744	40- 0S1	SM12	dDw
5 sPlcmb	44 1	NS6N7h1	N24h- 1h	0007- N7	NS- 121N	2M7-	dDw
5 spenC	12 1	602h- 6h	606hSS-	6N0- 0S1	60NNS2-	1M1-	dDw
5 spenC	12 2	NS- 2N	NS064	NSNN7	NS66S	SM10	dDw
5 GPhpcCr	- h 1	2- N0h- 27	20NN207h	- S- 76h- h	20- N4NN6	12M31	dDw
5 GPhpcCr	- h 2	214216	21N2N6	22110S	210N7S	1M6S	dDw
5 Gpmb cmb	h2 2	- SS4h	- S2- 2	2702N	- SSS1	SMNh	dDw
5 nesPT	h7 2	261N0	20- 2S	2660h	26020	2M12	dDw
5 nDDr p	6- 2	6242S	61466	61- 1N	610- h	SM70	dDw
&EwDpnwcmb	1h6 1	- - - 7-	- 4S20	- h1hh	- 4172	2M61	dDw
&EwDpnwcmb	1h6 2	14SS4	14- 11	141S4	1414S	1M11	dDw
Fpecmb	164 1	26- 00	20001	2N222	204h0	- M1S	dDw
Fpecmb	164 2	11- 2h	114h2	1SNNh	1122S	2M6h	dDw
HsonPCcmb	16S 1	- S11S	- 101-	- 2016	- 1h1-	4M10	dDw
HsonPCcmb	16S 2	140hh	1470N	1422N	146h4	2M4-	dDw
y nPb cmb	16h 1	70S2hS1	77Nh7- 0	1S222402	770S- S-	2M61	dDw
y nPb cmb	16h 2	42NSh- 0	4- S2761	417SS44	42h0N40	1M4S	dDw
tCocmb	11h 1	670- 21S	02016N-	04S1S- N	021h- 1S	- M34	dDw
tCocmb	11h 2	762102	7027- h	7h- 10h	762061	1M3-	dDw
tpnC	h4 2	2S1SN7-	2S1N4- N	1760N64	1777S6h	1M16	dDw
tpnC	h6 2	- 6160- 4h	- 61- S177	- h- 772SS	- hN7N71h	1M21	dDw
tpnC	h0 2	N40S26	Nh10Nh	N- 20- S	N4- N40	1M1N	dDw
KpEDTnC	N- 1	260	260	- 14	2N-	7M44	dDw
Lr so	2S6 1	1N6SS2	1N4NSS	1N- 014	1N4N- N	SM02	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S0	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUNh	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	1407S-	1477S-	1h1N1N	147N0h	1M1	dDw
Lr so	2SN 1	0S06- 1	011h7h	01471N	011- N2	SM1	dDw
LdTGmb	6 1	2h1hN01	264S24N	261- 6h-	2hN7724	2M-	dDw
9 sgOr wmb	24 2	1- 6h704	1- - 7- 20	1- - N7S4	1- 4NS6N	1Mh	dDw
9 sOgsOr wr	hh 2	- S0h0N	- S02N1	- S220N	- Sh012	SM0	dDw
9 nPEeor Omb	74 1	1S4h4	1S1h4	1S207	1S276	1M0	dDw
9 nPEeor Omb	7h 1	61Nh	62Nh	66Nh	6- Nh	4Mh	dDw
9 nPEeor Omb	76 1	0h20	0044	0061	0600	1M0S	dDw
9 nPEeor Omb	70 1	- 0h7	- 410	- hS7	- h62	4M0	dDw
9 nPEeor Omb	7N 1	7- 2S	7hh4	702S	7h- 1	2M1	dDw
u r noEb omb	1hS 1	h4702	hhS02	h4N- 7	h4761	SM21	dDw
u r noEb omb	1hS 2	16- 1S	1617S	16- 6S	162N0	SM14	dDw
u dkr P	6S 2	1Nh4h	17206	172- 6	17S17	2M6	dDw
8 GhwDGhpmw	- 1 2	44- 4	4h6N	4NN4	4627	hMSS	dDw
8 nTswwmb	- 7 2	- S10N7	27740h	277N1S	- SS- hN	SM42	dDw
. Ghomb	1S- 1	67607- 0	0SNhSS7	0- 2S162	0124- 67	2M2	dDw
. Ghomb	1S- 2	- - - 1704	- - 41h66	- - h0161	- - 4- h60	SMN	dDw
I dsComb	4h 1	4621N20	4626h14	4h0647h	46SN207	SMS	dDw
I dsComb	4h 2	14- hh0	14h2hS	14N11h	14h641	1MN	dDw
I r PCmb	N2 1	14h	166	71	1- 4	2NMM1	dDw
I r PCmb	00 2	60	0-	- -	hN	- 0MS7	dDw
I r PCmb	0N 2	h2	61	h-	hh	NM1	dDw
I dPdnC	2N 1	12S22Sh4	12Sh0N24	12S2N774	12S- 627S	SM6	dDw
I dPr p	1S0 1	220h	2610	2410	24- 6	0MSh	dDw
I dPr p	1S7 1	2Sh7	2SSS	2S72	2ShS	2M26	dDw
I nomb	2- 2	4h7- 1	4h1- 0	4h127	4h- 77	1MS2	dDw
I TpnCTmb	N6 1	107426	10062N	100h06	10N21S	SM7	dDw
I TpnCTmb	NN 1	1606S40	16h2NS-	16SN002	164hN04	2MSN	dDw
I mPmp	- 4 1	27NhN0	- Sh- SS	- S612N	- S- - - 7	1M6	dDw
Ar pemb	1h7 1	7N6SN0S	1S104S- 6	1S611hSS	1S21h467	- M7	dDw
Ar pemb	1h7 2	414hSh2	4212270	41SShNS	41h264-	1Mh	dDw
AGsPmb	2S- 1	2S10	2S42	21hS	2S0S	- M-	dDw
AGsPmb	2Sh 1	4N- 4	4- 26	4N06	4607	6Mh	dDw
AdC	11N 1	44- 4	4242	4- 7-	4- h6	2M1	dDw
AdSomb	40 1	6- N7-	6- 6SN	6- 06N	6- 0h6	SM2	dDw
RpsOmb	2- N 1	44174	442S-	44722	4444S	SM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 DrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 447 S0	tOwTpmb OrTusb r:J	8 N
5 RrCTI sb DPr:t&:J	9 y SUNh	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdPr:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h1 2	hS00S	h1hh2	hS744	h1SN7	SMMS	dDw
YTTr peomb	102 1	N011	N- 4h	N661	Nh02	2M12	dDw
YTTr peomb	102 2	- 07h	4127	- N4S	- 721	4M12	dDw
YTTr peomb	106 1	6- 00	66S2	6Nh2	661S	- MdS	dDw
YTTr peomb	106 2	14S04	142SN	14440	1424-	1M-	dDw
YTTpomb	N7 1	1- h7702h	1- h6- 406	1- N- 0711	1- 660S- 0	1N87	dDw
YTTpomb	N7 2	1- 2- 164	1- 12202	1270NN0	1- 111SN	SM70	dDw
ZdCd	66 2	hSN20	h1- h6	hS426	hSN0S	SM72	dDw
ZqpdnComb	7S 1	1N7NN	2S1h0	1N76-	17- 0S	- M12	dDw
ZqpdnComb	71 1	4h1N	41S1	42h1	427S	4M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 S:	tCl Tpmb Cr TLu wb r Ja	N:
9 8r CTL wo D8 Jt&Jal	y h SM 6	&8mTmCJMwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb cOcmb	20 2	0: 6: : .	: S- . 64	0: 6: 00	072442	1R22	dDI
qCTb nCE	121 1	- 760	4210	- 706	4S. -	- R S	dDI
qpl r Ccl	0. 2	410-	42. 6	4274	4241	1R46	dDI
Bwpcmb	1- . 1	4- 2: 76	4- . S00	4. S. 72	4- 7. 21	2R2S	dDI
Bwpcmb	1- 0 1	0. : . 02	000- 0:	07- 2: 0	006412	2R24	dDI
Br pE8cmb	7 1	2214	2271	2261	22. .	1R0-	dDI
Bdl b mTG	2S7 1	066. 24S	01: 720S	62S242-	0S1: 70:	1SR6-	dDI
Bdl b mTG	2S7 2	- 27660S	- 14. - 46	- 2S7. S0	- 210104	2R 6	dDI
Bpmb cOr	: 1 1	: . : 6	: 061	: 1: 6	: . 11	- R40	dDI
9 wob cmb	1S: 1	2: -	- S:	276	276	4R2-	dDI
9 wob cmb	1S6 1	47. 7	46- 4	41S7	4. 6:	7R 7	dDI
9 wob cmb	111 1	41: 2	4S: 2	42: 4	41: 2	2R42	dDI
9 w8lcmb	4- 1	1S- - 14:	1S. 77- 1	1S. 7: . 1	1S. S700	1R40	dDI
9 w8lcmb	44 1	10- 4S1S7	107064- -	10: 10: 24	100114. .	1R 0	dDI
9 wpenC	12 1	4. S14S4	4007201	40: - 406	46: : S. 1	- R4.	dDI
9 wpenC	12 2	. 0602	. 0161	. . S4.	. 6626	2R46	dDI
9 G8npcOr	- . 1	2- 1: . S01	202240- 2	27- 7- 644	266S1147	11R .	dDI
9 G8npcOr	- . 2	21- 1- 4	217S1-	222: : S	21: - 4-	2R2.	dDI
9 Gpmb cmb	. 2 2	. 61: S	. . 6: 1	. . 16-	. . 60.	SR71	dDI
9 new8T	. 7 2	. 4- 2-	. - 227	. 2: : 1	. - 40:	1R41	dDI
9 nDDr p	6- 2	707. 1	77- . 2	77. - 6	7: 746	SR:	dDI
&El Dpnl cmb	1. 6 1	. 6174	. : 1- 6	. 06SS	. 0- 1S	1R0.	dDI
&El Dpnl cmb	1. 6 2	240: 6	2- 7. :	2- : - .	2417-	2R14	dDI
Upecmb	164 1	46164	460S:	47160	40- 46	- R :	dDI
Upecmb	164 2	17141	1: 7: 0	1: . . S	1: : 72	1R62	dDI
Hwon8Ccmb	16S 1	. 272-	. 1416	. - 700	. 2002	2R44	dDI
Hwon8Ccmb	16S 2	2. 1. 0	24. 47	247. S	24: : 6	1R24	dDI
h n8b cmb	16. 1	11404. 2:	1S2: 4727	: 7S- S. 6	1S22S: - :	12R 7	dDI
h n8b cmb	16. 2	42: 6244	4S1S26S	4260706	41: : 16S	- R67	dDI
tCocmb	11. 1	: - : - 0. :	0410706	6. 6: 40:	04. 60- 0	12R1:	dDI
tCocmb	11. 2	766. - -	72S427	74: - 10	74. S7-	2R46	dDI
tpnC	. 4 2	- 46S2. .	- 467: 4-	- - 0S: : 4	- 4- - 661	1R 7	dDI
tpnC	. 6 2	62S2141.	62- : . 247	6222SS- :	622S: 7SS	SR27	dDI
tpnC	. 0 2	16S474:	1. 71. 04	1. : S07-	1. 724- :	SR06	dDI
KpEDTnC	: - 1	- - .	- 11	- 27	- 2.	- R07	dDI
Lr wo	2S6 1	- 2S4. 7	- 2S4- .	- 2627-	- 22- 76	1RS.	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N:
9 8r CTJ wb D8 Jt&JaJ	y h SM 6	&8mTmCJMwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
Lr wo	2S0 1	261S: 4	20S16S	20107:	2606: S	2R16	dDI
Lr wo	2S: 1	122. S: -	12. . - 4-	126: 2. :	1247. 61	1R30	dDI
LdTGmb	6 1	207: 211	26- . 71:	2- 60604	26SS6S1	: R 6	dDI
y wgCr l cmb	24 2	224- 2- 6	2224- : 4	22S744:	222. 6: 7	SR06	dDI
y wCgwCr l r	. . 2	. 67044	. 01207	. . : 12S	. 66- : 1	1R20	dDI
y n8Eeor Cmb	74 1	1- 17S	1- - 7:	1- 46.	1- - . 1	1RS:	dDI
y n8Eeor Cmb	7. 1	70: 0	7: 4.	1SS07	77S4	1R 6	dDI
y n8Eeor Cmb	76 1	11022	11: : S	121: 1	1172:	1R7.	dDI
y n8Eeor Cmb	70 1	. : 7-	61. 2	6420	61. 0	4R -	dDI
y n8Eeor Cmb	7: 1	1. 4S7	16200	1. : 1:	1. : - 4	2R04	dDI
u r noEb cmb	1. S 1	717: :	7S12:	74- 2-	72146	2R2:	dDI
u r noEb cmb	1. S 2	206S2	20201	20. 0:	204: 4	SR60	dDI
u cdkr 8	6S 2	- 6: S4	- . : . :	- . - 10	- . 77-	2RS7	dDI
NGhl DGhpml	- 1 2	4410	4- - 4	4460	44S6	1R -	dDI
NnTwl l cmb	- 7 2	- . 040-	- . 7: 72	- . - : 00	- . 0S: 1	SR .	dDI
F Ghocmb	1S- 1	: S76- 61	0- S1. 04	6- 6774:	02. . 761	11R71	dDI
F Ghocmb	1S- 2	- - 2S- . 2	- S71S- S	- 2S420-	- 2S. 217	- R :	dDI
l dwCocmb	4. 1	. 46- 7: S	4: 01. 46	4S77S06	4: 11. - 4	14R22	dDI
l dwCocmb	4. 2	140021	14S. : 1	144260	14417S	2R4:	dDI
l r 8 Ccmb	: 2 1	120	162	211	160	2. R1:	dDI
l r 8 Ccmb	00 2	00	110	1- -	1S7	26R0.	dDI
l r 8 Ccmb	0: 2	: 6	04	00	07	0R7S	dDI
l 8dnC	2: 1	112S4: . 7	1141. : : -	11. - 061-	11- : 611:	1R4:	dDI
l 8vr p	1S0 1	4226	4- 06	4- 10	4- S6	1R06	dDI
l 8vr p	1S7 1	4- 7-	4- 26	4S26	424:	4R6S	dDI
l nocmb	2- 2	: 6. S6	: 6S07	: . : 67	: 61. 1	SR :	dDI
l TpnCTcmb	: 6 1	- - 24- 0	- - 7. - 4	- 421S0	- - : S26	1R4:	dDI
l TpnCTcmb	: : 1	- S: 4- : 4	- 11. - 40	- 1. 7- 4-	- 117671	1R21	dDI
l m8mp	- 4 1	270: 0.	- S610:	- 1- - 4-	- S. 07:	2R -	dDI
Ar pecmb	1. 7 1	110. : : 14	1S- 2: 126	7S64764	1S- : - 76:	12R7:	dDI
Ar pecmb	1. 7 2	410S6- 6	- 76- 016	4S7. 10:	4S06. 1S	2R 0	dDI
AGw8mb	2S- 1	- . - 4	- . 42	- 406	- . 10	1RS-	dDI
AGw8mb	2S. 1	: 12:	: . : 6	: 40:	: - 70	2R .	dDI
AdC	11: 1	0044	: S. -	: 2- 6	: S11	- R1S	dDI
AdTwCcmb	40 1	62. 62	6410:	664- :	64- 72	- RS2	dDI
5 pwCcmb	2- : 1	6: 661	02- - 1	02121	01S- :	2R7S	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N:
9 8r CTJ wb D8 Jt&JaJ	y h SM 6	&8mTmCJMwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	. 1 2	726. 2	72. 6S	7- 12S	72000	SR 2	dDI
YTTr pecmb	102 1	1- 004	141: -	14672	14216	- R2-	dDI
YTTr pecmb	102 2	6- 6:	60S2	6- 46	6402	- RS:	dDI
YTTr pecmb	106 1	1S107	1S476	1S2. 4	1S- 1S	1R61	dDI
YTTr pecmb	106 2	1. 46.	1. S- 1	147S7	1. 1- .	1R7-	dDI
YTTpcmb	: 7 1	1. 761: 7.	1412S: SS	121- - 27-	14S01776	1- R61	dDI
YTTpcmb	: 7 2	14- . . S0	1- 47. S-	14S4S: 4	1- 76- 6.	- R12	dDI
ZdCd	66 2	66622	60: - .	66607	60S46	1RS2	dDI
ZqpdnCcmb	7S 1	2S6: -	211S:	2S1S0	2S6- -	2R44	dDI
ZqpdnCcmb	71 1	44: 4	. S: 4	. 126	4: 7:	0R -	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S20	T8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwR8p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
d8be qFdpe	20 2	21S2a1S	2S62220	2S7Ua61	2S60S77	1M67	Ol l
dFiqe . Fh	121 1	2641a04	26u61aa	207SU64	26u6246	1M6U	Ol l
dIl pFqO	0U 2	600u2	6Uu1S	60246	66a46	1MU2	Ol l
Bwldpe	17U 1	2a4S1uU	2aa6uSU	7S20102	2auuSU4	1M4u	Ol l
Bwldpe	170 1	U126S6S	U1a4S22	U2701Sa	U1uU07S	1M8u	Ol l
Bplh8Bpe	a 1	6S6ua0	61aa7S	61uUU6	61U12u	1M16	Ol l
Bdqe biE	2Sa 1	UaU4S12	672U602	6716u1u	61auu74	7M42	Ol l
Bdqe biE	2Sa 2	2au2472	2a62S0S	2aU24aS	2a6U664	SMU2	Ol l
Bl. e qFp	u1 1	4742	4226	47Sa	42a2	1M4S	Ol l
3 wne dpe	1Su 1	U2470	U771U	U4u74	U7U2a	2M20	Ol l
3 wne dpe	1S6 1	07au2	0U1u1	0uuSS	0Uauu	7M7S	Ol l
3 wne dpe	111 1	62S1u4	67UuS2	64S4ua	6721Uu	1M0u	Ol l
3 w8Qdpe	47 1	7ua002u	7aU26Ua	7aa02U4	7a4a214	1M26	Ol l
3 w8Qdpe	44 1	6211U0Su	62u4U012	62U24SUU	624aU1Uu	SMUa	Ol l
3 wlr . F	12 1	246U614	2U2Ua7u	261S400	2U74SSa	2M10	Ol l
3 wlr . F	12 2	74S4u	7262u	77aau	77UUu	2M4S	Ol l
3 E8 lqFp	7U 1	1U4U220	1US6uS4	1U174uS	1U21u70	1M7U	Ol l
3 E8 lqFp	7U 2	1S470	au0a	a02a	1SS1U	7M07	Ol l
3 El. e dpe	U2 2	0247uu	01114u	01U7Sa	016a4u	SM44	Ol l
3 . r w8	Ua 2	120u2a2	12UUuua	12u4224	1202uS2	1M10	Ol l
3 . t t pl	67 2	1S6aUU77	1S0S6au4	1S6u6uau	1S6a6401	SM3a	Ol l
Thl t l. l dpe	1U6 1	u10	6u7	0SS	077	aM41	Ol l
Thl t l. l dpe	1U6 2	7SS	2u0	727	7S7	6M12	Ol l
Glr dpe	164 1	10U	2SS	2SS	1a2	0MU7	Ol l
Glr dpe	164 2	117	US	6S	04	4UM07	Ol l
Hwn. 8qFdpe	16S 1	0a2	u77	u10	u14	2MUu	Ol l
Hwn. 8qFdpe	16S 2	4u0	US7	400	4ua	2M06	Ol l
K. 8e dpe	16U 1	a141146	aUU4120	a6u4u40	a46SS4S	7M8S	Ol l
K. 8e dpe	16U 2	41S76ua	4SS762a	4S2770U	4S47U64	1M71	Ol l
&Fndpe	11U 1	6744uU0	6U11241	664aU6a	6US1uua	2M7U	Ol l
&Fndpe	11U 2	uaU0S7	u0172u	uu4u00	uu7a6a	1M7u	Ol l
&. F	U4 2	u4S0677	u72au6u	u41u11u	u7uU2S6	SMU0	Ol l
&. F	U6 2	1U2a01ua2	1U4461a0S	1U20u6SSa	1U74S6624	SM0S	Ol l
&. F	U0 2	7a0U0U6	7u04US7	7a620U2	7a7060S	1M4S	Ol l
glht i. F	u7 1	2U0	21U	240	24S	aM26	Ol l
Lpwn	2S6 1	126U412u	12U02410	120S60Su	1264441u	SMU4	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S20	T &piq F:RwO. I:J	1
Twip:A:cœ p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwR&p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
Lpwn	2S0 1	1Sa010a7	1SuuU227	1S04Uaa6	1Su60601	1N3U	Ol l
Lpwn	2Su 1	USSU7040	US2U4U20	US4U0u62	US2UU70a	SM4S	Ol l
LqiEdpe	6 1	210u472	2711uu0	22uSS44	22U60uu	7N3a	Ol l
9 wkFpl dpe	24 2	2a1U4770	2u010600	2a2u46u7	2aSU2272	1N32	Ol l
9 wFkwFpl p	UU 2	7u766u1	7u46UUU	7u71S07	7u7u1S7	SM2S	Ol l
9 . 8hr npFbe	a4 1	auS20SU	1SS74u42	auu1076	aaS642u	1M1a	Ol l
9 . 8hr npFbe	aU 1	142047S1	14U11S14	14U12a72	1447204a	SM4U	Ol l
9 . 8hr npFbe	a6 1	1UU4176a	16S6a44u	1616u44u	1Ua26422	2M12	Ol l
9 . 8hr npFbe	a0 1	u6074US	aS462UU	a11UuuS	ua4U1aU	2M66	Ol l
9 . 8hr npFbe	au 1	22U62ua2	27124U4u	27004uu1	271U41S0	2M62	Ol l
mp. nhe dpe	1US 1	7S0	24S	7S0	2u4	17NU7	Ol l
mp. nhe dpe	1US 2	U7	67	77	US	7SNUU	Ol l
mqOvp8	6S 2	74644a	744Uu0	742162	7447aa	SM62	Ol l
NE. l t E. lbl	71 2	2S2au	1aa14	2S41U	2S2Sa	1M7S	Ol l
N. iwl l dpe	7a 2	a76a0SU	aS01aS7	aS14710	a1U1a0U	2N3u	Ol l
y E. ndpe	1S7 1	6S06107	62aUU11	67u1a46	62U121S	2NU2	Ol l
y E. ndpe	1S7 2	2a64S4u	2u66aa4	2a71u2U	2a2SaU6	1M6a	Ol l
DOwFndpe	4U 1	4Su0u4u	47U2176	472161S	42U7u6U	7M4S	Ol l
DOwFndpe	4U 2	17u214	17auUu	17U41U	170u2a	1M67	Ol l
Dp&pFdpe	u2 1	4u1S0	4u7U0	4uuS7	4u422	SM07	Ol l
Dp&pFdpe	00 2	17uS	12a0	141S	1762	4M71	Ol l
Dp&pFdpe	0u 2	4a7U	404U	4a77	4u01	2M24	Ol l
Dq&Q F	2u 1	2u1u6U17	2uuU1S41	2a10767a	2u070S6U	1M0U	Ol l
Dq&pl	1S0 1	77627a7	7U7uU77	7Uu241a	74a444u	7M77	Ol l
Dq&pl	1Sa 1	71a7762	724aU1S	7262772	727US6u	1M17	Ol l
D. ndpe	27 2	U1u26aau	US2047aS	U1u00aa0	U1726462	1M0u	Ol l
Dil. Fidpe	u6 1	1a762a2a	1a26aU2S	1a4u0SS0	1a7071U2	SNU6	Ol l
Dil. Fidpe	uu 1	16U464a4U	16ua16041	101S6642a	16u4u20SU	1M0u	Ol l
Db&bl	74 1	U67712	U60uS4	U60u74	U66710	SM46	Ol l
cplr dpe	1Ua 1	a1626au	au21UUa	a442002	a40U606	7M4a	Ol l
cplr dpe	1Ua 2	7a10167	7a11uU7	4S0106U	7a66a20	2M2a	Ol l
cEw&&pe	2S7 1	7S717S1	7SU011U	7S70071	7S42S4a	SM44	Ol l
cEw&&pe	2SU 1	0S66aa0	0S6a641	01a1Uua	01Sa4Sa	1N3S	Ol l
cqF	11u 1	22Saua0	2242264	22247u4	222UU1U	SM07	Ol l
cqwFdpe	40 1	7u4a767	7uUa46u	7u1aUU6	7u420aU	SNU4	Ol l
5 lwFdpe	27u 1	1S7uU4SU	1SU7U212	1Su12u47	1SU00u2S	2N3U	Ol l

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Lwr :Dwe t 8p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S20	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwRq8p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	U1 2	U6SU47	U6126S	UUuaS1	U6S27U	SM22	Qt l
Yiiplr dpe	102 1	210	22U	1Uu	2SS	1uM16	Qt l
Yiiplr dpe	102 2	a4	0u	u7	uU	aM46	Qt l
Yiiplr dpe	106 1	174S0	14660	14741	1417u	4M67	Qt l
Yiiplr dpe	106 2	16u44	1Ua00	161aa	1674S	2M06	Qt l
Yiildpe	ua 1	116US424	124u1164	1274u770	121Uaa0U	7M60	Qt l
Yiildpe	ua 2	1226a26	11a2462	11aaau7	12S64U0	1MUS	Qt l
ZqFO	66 2	12Uu4U7	1220S4a	124a2a7	1244a72	1M7S	Qt l
ZqlQ Fdpe	aS 1	4Uu107u	40S20U7	46uUaS2	46U60au	1M41	Qt l
ZqlQ Fdpe	a1 1	au0007	aaUa4U	1S1S2S6	aa0a04	1M14	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&nr :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maq&nr :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFUD

Parame&er	5 ass	3 Pp1	3 Pp2	3 Pp-	3 Pp5 eaC	3 Pp9 pt	RCA&s
c lumACAum	2072	2- .	1. 6	1y.	1y.	2SU1.	ql s
c C&AmnCh	12171	1Sy2	y0.	16SS	1222	20U1y	ql s
c rseCAq	0. 72	8	2	8	6	. 0U04	ql s
BarAum	1- . 71	2- -	1. 8	410	26y	4yU2	ql s
BarAum	1- 071	4. S	2. S	62.	442	42U4y	ql s
BerhlIAum	y71	186	12y	2S4	10-	22U6y	ql s
BAsmu&E	2Sy71	. . 121S8	61. 1210	6. - 2S4-	6S6. 12-	8U S	ql s
BAsmu&E	2Sy72	- 1y81- -	- 2S6060	- 160y- .	- 1ySy4.	SU64	ql s
BrnmACe	8171	42S1	41. y	4S. 1	41- 0	1U80	ql s
3 aOmAum	1S871	2.	8	- -	22	. 0U2y	ql s
3 aOmAum	1S671	2y10	- 2- 4	- Sy2	- S81	. U1.	ql s
3 aOmAum	11171	- yy	4. .	482	44.	yU4.	ql s
3 alqAum	4- 71	616	461	1S. S	0Sy	4- US4	ql s
3 alqAum	4471	48S06	4. 2S6	. 02y1	. S1y1	12U 8	ql s
3 arbnC	1271	2- . yS. .	2- 66S. 8	2- 0y268	2- 68120	SU4-	ql s
3 arbnC	1272	28028	26S24	208S2	20. 18	. USS	ql s
3 ElnrACe	- . 71	128y648	128y621	120681-	128. - 61	SU 8	ql s
3 ElnrACe	- . 72	82S-	8- 44	8- 61	8- S-	1US.	ql s
3 ErnmAum	. 272	11- 0	1140	1100	11. -	1U8S	ql s
3 nbal&	. y72	14S	6-	. -	86	. . U42	ql s
3 nI I er	6- 72	- Sy0	1y6S	188S	2- 12	2yU4-	ql s
t hsI rnsAum	1. 671	10	8	10	14	- 4U60	ql s
t hsI rnsAum	1. 672	S	S	0	2	10- U21	ql s
FrbAum	16471	. S	60	- -	. S	- - U4	ql s
FrbAum	16472	0	20	2-	1y	. 6U02	ql s
GaOnIACAum	16S71	- -	. S	60	. S	- - U4	ql s
GaOnIACAum	16S72	12-	1- 0	yS	110	2SU6S	ql s
HnImAum	16. 71	00. . 6S1	8y. y18-	y- 08- 86	86y002-	yU6y	ql s
HnImAum	16. 72	4Sy44- .	422486-	- yy. 0S.	41S. SS1	2U8S	ql s
DCOAum	11. 71	. 660411	664828S	668S01S	6- - 21- 4	yUSy	ql s
DCOAum	11. 72	y482y6	y. 6. 66	y- 10. 1	y4. . - 8	1U4	ql s
DnC	. 472	008	6y4	. 44	602	10Uy	ql s
DnC	. 672	12- - 2	6S04	1SS12	y40-	- - U4S	ql s
DnC	. 072	- 61	210	108	2. 2	- 8U6	ql s
KrhI &nC	8- 71	266	2- 0	244	24y	6US0	ql s
LeaO	2S671	21SS	16. S	2- 0-	2S41	10U8	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&nr :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maq&nr :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFUD

Parame&er	5 ass	3 Pp 1	3 Pp 2	3 Pp-	3 Pp 5 eaC	3 Pp 9 pt	RCA&s
LeaO	2S071	1061	16. 6	18y.	1001	6U06	ql s
LeaO	2S871	808.	0604	1S- 48	8y- 6	1. US-	ql s
LA&EAum	671	2Sy. 026	2- 241. 6	2- 4060-	22. . 8. 2	6U10	ql s
5 agCesAum	2472	14. S	0- -	y42	1S42	- . Uy	ql s
5 aCgaCese	. . 72	2- -	14S	1- S	168	- - Uy0	ql s
5 nIhbOeCum	y471	1842	88-	2S- 4	1. 86	- 8U8.	ql s
5 nIhbOeCum	y. 71	18y2	1142	26Sy	1881	- yUS1	ql s
5 nIhbOeCum	y671	2S10	1- 10	- 418	22. 1	40U4	ql s
5 nIhbOeCum	y071	118-	010	16. S	118-	- yU44	ql s
5 nIhbOeCum	y871	2y- 4	2SSy	4200	- S0-	- 0U11	ql s
NenOhmAum	1. S71	S	2S	0	y	114U.	ql s
NenOhmAum	1. S72	0	S	S	2	10- U21	ql s
NAqkel	6S72	8S	40	0-	60	26U4.	ql s
PEnsI Enrus	- 172	1SS	1SS	110	1S6	yU12	ql s
Pn&assAum	- y72	14866	1- . 0-	1- 6S0	14S1.	. U26	ql s
9 EnOAum	1S- 71	. 608y10	64. 4. 10	60- 68y2	62yS1S8	8U01	ql s
9 EnOAum	1S- 72	- 2. 62. 0	- 18yS28	- 14S616	- 1y. - SS	1U82	ql s
pqaCOAum	4. 71	- 6260. 2	4211SS-	422122S	4S1y6. 8	8U40	ql s
pqaCOAum	4. 72	1411- 6	14108.	1- 8- 8S	14S4- 4	1U2y	ql s
peleCAum	8271	716	711	- -	2	16SyU1.	ql s
peleCAum	0072	S	S	S	S	SUSS	ql s
peleCAum	0872	10	11	1.	14	21U1	ql s
pAAqnC	2871	1y84- 2	1y24y6	1y1y46	1y42y1	1U8.	ql s
pAver	1S071	- 42	- 10	242	- SS	10U.	ql s
pAver	1Sy71	2. S	20.	2y2	202	0U0S	ql s
pnOAum	2- 72	40- 2S	4. 28S	4- 2y8	4. 2yy	4U44	ql s
p&nC&Aum	8671	222.	1. S8	- 46S	2- y8	41U16	ql s
p&nC&Aum	8871	14286	8021	2yS- 2	10- 46	6SU1	ql s
pulfur	- 471	- S1y0-	- S- 811	- S1. . 8	- S2440	SU4S	ql s
i erbAum	1. y71	08y8- - y	8y8646y	y42y08y	8001. - 2	8Uy8	ql s
i erbAum	1. y72	4S40y- -	4S0846-	- y61. S8	4S2y- S1	1U1	ql s
i EallAum	2S- 71	1442	1410	140.	144.	2US-	ql s
i EallAum	2S. 71	- 826	- 2. y	- . 10	- . - 4	8US-	ql s
i AC	11871	11. S	1160	118-	1160	1U4-	ql s
i A&aCAum	4071	. S8	4SS	y. y	622	40Uy	ql s
RraCAum	2- 871	yS8	. . 8	1626	1S- 1	. 2U00	ql s

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Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFU0

Parame&er	5 ass	3 Pp 1	3 Pp 2	3 Pp -	3 Pp 5 eaC	3 Pp 9 pt	RCA&s
VaCaOAum	. 172	4S	2S	2-	28	- 8U 8	ql s
Y&erbAum	10271	2.	0.	60	. 6	48U22	ql s
Y&erbAum	10272	- y	28	22	- S	28U6.	ql s
Y&erbAum	10671	1S10	118-	11S8	11S-	0U 0	ql s
Y&erbAum	10672	11- - -	1148-	1Syyy	11202	2U2S	ql s
Y&&Aum	8y71	1S- - 800.	118. 8S. 2	12S062- 8	11424- . .	8U28	ql s
Y&&Aum	8y72	12. - 11S	126- 188	12- - 0- 1	12. SS1S	1U2S	ql s
ZACq	6672	18-	21-	16-	180	1- U48	ql s
ZAqnCAum	yS71	02.	. 60	y. S	040	2. U08	ql s
ZAqnCAum	y171	142	1. S	4SS	2- 1	6- U0S	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SMa0	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJ- 7JSa	&wTwMv8 :u wb r :J	1. 0qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb cCmb	20 2	. 402. 2	. 42- 2a	. 4212-	. 4- 7S1	SR-	dDI
qCTb nCE	121 1	02. 2	0S67	6. 6S	676S	. R1.	dDI
qpl r Ccl	0. 2	- . 01	- 4- 1	- 404	- 472	2RS.	dDI
Bwpcmb	1- . 1	4S61S6	- 70a46	- 7217S	- 7a014	1R06	dDI
Bwpcmb	1- 0 1	0S4- SS	0S441.	0S2140	0S- 621	SR1a	dDI
Br pE8mb	7 1	4a1.	4a. a	472-	4a6.	1R11	dDI
Bdl b mTG	2S7 1	60- 7. aa	6a- - . . a	0SS. 6a0	6a. 7611	1R70	dDI
Bdl b mTG	2S7 2	- 1- 212S	- 1. . . 10	- 1- . 1- 6	- 14S724	SR41	dDI
Bpmb cCr	a1 1	0420	01S2	aSa6	0. - a	6R6.	dDI
9 wob cmb	1Sa 1	2SS	20.	221	2- 2	16R67	dDI
9 wob cmb	1S6 1	447-	4- 26	4S. 1	427S	. R2S	dDI
9 wob cmb	111 1	2a1S	270a	2a26	2a01	- R2-	dDI
9 w8lcmb	4- 1	222S. 0	224a40	221- 27	22204.	SRa-	dDI
9 w8lcmb	44 1	- 72207-	- 74224S	- a0S206	- 711067	SR7.	dDI
9 wpenC	12 1	. SS02. S	. 2S- 762	. 21Sa- .	. 14S6a2	2R2.	dDI
9 wpenC	12 2	6207-	62- 04	62- - -	62. SS	SR41	dDI
9 G8mpCr	- . 1	11. - S- 7.	1407S07-	10404S. 4	14. 7a414	2SR 7	dDI
9 G8mpCr	- . 2	1. 1476	16S16-	166a62	1. 7. S0	4Ra-	dDI
9 Gpmb cmb	. 2 2	- S- 06	- S47-	- SSa2	- S- 10	SR0S	dDI
9 new8T	. 7 2	- 2. 01	- 2. 14	- 2474	- 2. 26	SR12	dDI
9 nDDr p	6- 2	7121a	71S6S	7S427	7S7S2	SR46	dDI
&El Dpnl cmb	1. 6 1	1S44a-	1S47. 2	1S. 2S6	1S4aaS	SR .	dDI
&El Dpnl cmb	1. 6 2	4- 00.	4- 0aa	4- 0. 1	4- 002	SRS4	dDI
Upecmb	164 1	0- a6-	04116	044. 1	04144	SR4S	dDI
Upecmb	164 2	27a20	- S14a	270S0	27a74	SR06	dDI
Hwon8Cmb	16S 1	a66SS	aaS1.	aa674	a000S	1R22	dDI
Hwon8Cmb	16S 2	41042	41- 40	41220	414- 7	SR6.	dDI
h n8b cmb	16. 1	76. 0. a7	7077041	7000- 12	7044aa1	SR0a	dDI
h n8b cmb	16. 2	411. S6a	411a101	412. 766	41170- .	SR14	dDI
tCocmb	11. 1	0S4a. 70	0S- 4- aS	0SS4S1.	0S2a770	SR 2	dDI
tCocmb	11. 2	74S142	7- . . - 0	74. 676	74S4. a	SR 4	dDI
tpnC	. 4 2	2S7a4a0	2Sa. 224	21S67. 4	2S76aaa	SR 2	dDI
tpnC	. 6 2	- 0a. 620-	- 060aS41	- a240470	- 072020S	SR00	dDI
tpnC	. 0 2	aa7S1a	a0400S	aa26aS	aa21. 6	SRa1	dDI
KpEDTnC	a- 1	- - 6	- - 1	- - 4	- - 4	SR0.	dDI
Lr wo	2S6 1	67SSa4	67. 2. .	677. 4-	674761	SR6a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 S7	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMa0	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:2SJ- 7JSa	&wTwMv8 :u wb r :J	1. 0qF UMR0

NwpwbrTrp	ywl l	9Nl 1	9Nl 2	9Nl -	9Nl yrwC	9Nl Fl &	5CdT
Lr wo	2S0 1	. 67- - -	. 647Sa	. 64- . 6	. 66177	SR4a	dDl
Lr wo	2Sa 1	20S4. - 7	20S4S62	2670242	20S174a	SR1.	dDl
LdTGmb	6 1	247262.	240S. 7S	2401067	240a- 2a	SR S	dDl
y wgCr l cmb	24 2	. 22- 77	. 16660	. 22. 62	. 2S. 42	SR6.	dDl
y wCgwCr l r	. . 2	aS66SS	a1S. 16	a1SS2S	aS7S4.	SR26	dDl
y n8Eeor Cmb	74 1	14a. a	14a60	147SS	14a0.	SR1.	dDl
y n8Eeor Cmb	7. 1	a62S	a- - 6	a7a6	a640	- R20	dDl
y n8Eeor Cmb	76 1	111. .	11S1-	1121-	11120	SR7-	dDl
y n8Eeor Cmb	70 1	. - 1a	. 206	. S26	. 2S0	- R8-	dDl
y n8Eeor Cmb	7a 1	1- 041	14266	1- 647	1- aa.	2R4S	dDl
u r noEb cmb	1. S 1	107162	1aS4- 6	10a. 66	107- aa	SR -	dDl
u r noEb cmb	1. S 2	. 4Sa.	. . . 77	. 4777	. 4a74	1R 7	dDl
u cdkr 8	6S 2	14a6.	14614	1. S11	14a- S	1R .	dDl
NGhl DGhpml	- 1 2	4a6a	40- 4	4442	46a1	4R6.	dDl
NnTwl l cmb	- 7 2	. S114S	. S2- S1	47a176	. SS. 46	SR42	dDl
F Ghocmb	1S- 1	6aSS167	0S14014	677- 04a	67- 621S	1R01	dDl
F Ghocmb	1S- 2	- 16a21a	- 21. 0S-	- 241600	- 2Sa. - -	1R16	dDl
l dwCocmb	4. 1	4. a- 0. 1	4. S77a4	46SS4aS	4. 640- a	1R8.	dDl
l dwCocmb	4. 2	14- a76	1- 7- 76	14SS16	1411S-	1R0-	dDl
l r 8 Ccmb	a2 1	210	2S1	1a6	2S2	0R0.	dDl
l r 8 Ccmb	00 2	2S0	21S	210	211	2R41	dDl
l r 8 Ccmb	0a 2	12-	142	1- S	1- 2	0R S	dDl
l c8dnC	2a 1	114- 1242	116S06. 4	11441070	1147- . 64	SRa6	dDl
l c8vr p	1S0 1	1. a06	1. 71S	1. 1. S	1. 64.	2R04	dDl
l c8vr p	1S7 1	1. 1. S	14641	14- - -	140Sa	2Ra1	dDl
l nocmb	2- 2	614- S	. 7. a7	. a. . 7	. 7a6S	2R4-	dDl
l TpnCTcmb	a6 1	161S7S	1640S6	162- 76	1620- 1	1R1-	dDl
l TpnCTcmb	aa 1	14a64S6	1. - - Sa-	1. S. - 0.	1. Sa2aa	1R 6	dDl
l m8mp	- 4 1	- 276. 4	- 1a. 46	- 14S4-	- 2S04a	2R 1	dDl
Ar pecmb	1. 7 1	7041142	1S- . 1626	1SSa- 0SS	1SS. aa2-	- R84	dDl
Ar pecmb	1. 7 2	411. 124	4S64104	4S- 6177	4S01a- 2	SR7a	dDl
AGw8cmb	2S- 1	- a60	4126	- 772	- 77.	- R2-	dDl
AGw8cmb	2S. 1	7. 0S	7407	1S1aa	7046	- R76	dDl
AdC	11a 1	2S0- -	2S247	21. S1	2Sa20	- R8-	dDl
AdTwCcmb	40 1	1a6. 1-	1aa6a7	1a60a7	1a0- - S	SR6-	dDl
5 pwCcmb	2- a 1	1S- 772	11114-	1S744.	1Sa17-	- R4.	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SMa0	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJ- 7JSa	&wTwMt8 :u wb r :J	1. 0qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	. 1 2	. 6170	. 6a06	. . 64a	. 624S	1R57	dDI
YTTr pecmb	102 1	1776.	2S- Sa	2S471	2S2. .	1R.2	dDI
YTTr pecmb	102 2	1S420	1SSa2	1S2S4	1S2- 0	1R01	dDI
YTTr pecmb	106 1	14- 66	1442.	141. S	14- 14	1R51	dDI
YTTr pecmb	106 2	100S0	16002	10. 7.	10- . a	2R74	dDI
YTTpcmb	a7 1	1- . 6a. . a	1- 67- 272	14S107a7	1- 0. 7746	1R67	dDI
YTTpcmb	a7 2	14- 16- 4	1441261	1- 41660	14S4a. 4	- R71	dDI
ZdCd	66 2	7S44S	a7072	a72. .	a7a27	SR66	dDI
ZqpdnCcmb	7S 1	2674-	26S10	20120	26676	2R2-	dDI
ZqpdnCcmb	71 1	. a7-	6S- .	6- 1S	6S07	- R47	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 1S	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTl wb D8 :t&:J	y h SMaa	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJ42JSa	&wTwMv8 :u wb r :J	1. aq F UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCcmb	20 2	42- 1aS	4- 112.	444164	4- 2a2-	2R4.	dDl
qCTb nCE	121 1	12. a1	1- S- 2	12170	126S-	- R 1	dDl
qpl r Ccl	0. 2	6071	0S1S	0- 4a	0S. S	- R7a	dDl
Bwpcmb	1- . 1	- 6a0S1	- 0a. 74	- 0. 01-	- 04- - 6	1R 6	dDl
Bwpcmb	1- 0 1	6. 7. 6.	66- 06-	66672S	66- 416	SR 6	dDl
Br pE8cmb	7 1	- 2- 4	- 220	- 222	- 22a	SR10	dDl
Bdl b mTG	2S7 1	66. 41- a	6a4aa42	6a04S16	6072- - 2	1R0	dDl
Bdl b mTG	2S7 2	- 701. 67	- 2. 1. . 1	26S1. 4a	- 204aa7	2SR7-	dDl
Bpmb cCr	a1 1	646S	6a- .	6744	6046	- R06	dDl
9 wob cmb	1Sa 1	21-	210	1aa	2S6	0R60	dDl
9 wob cmb	1S6 1	4142	- 060	4S. 7	- 77S	4R74	dDl
9 wob cmb	111 1	2- 2S	2276	2. 72	24S2	6Ra-	dDl
9 w8lcmb	4- 1	2- 6477	24S707	2- aa24	2- a060	SR74	dDl
9 w8lcmb	44 1	41- aS64	41- 1464	4S6S7- a	411S1. 6	1RS4	dDl
9 wpenC	12 1	- SS7S0-	- S26041	- SaS24S	- S- a6a.	1R22	dDl
9 wpenC	12 2	- 6- S4	- . a67	- 6- 46	- 610-	SR0-	dDl
9 G8npcCr	- . 1	1a264S27	222S0. 66	24. 4S72S	2160Sa- a	14R64	dDl
9 G8npcCr	- . 2	1aa64-	172SS7	2S4024	17. 12.	4R .	dDl
9 Gpmb cmb	. 2 2	- 6177	- 6460	- 06a6	- 60a4	2R16	dDl
9 new8T	. 7 2	2a221	2a- 1a	2a026	2a422	SR74	dDl
9 nDDr p	6- 2	1S- . 61	1S- 1. .	1Sa. SS	1S. S02	2Ra-	dDl
&El Dpnl cmb	1. 6 1	0S1S7	04- 66	01477	01771	- RS2	dDl
&El Dpnl cmb	1. 6 2	- S2- a	27aS0	- Sa22	- S2a7	1R6a	dDl
Upecmb	164 1	. SS11	47a00	47- 7-	4706S	SR6.	dDl
Upecmb	164 2	2S102	2Sa1-	22S- a	21SSa	4R 1	dDl
Hwon8Ccmb	16S 1	. 7S6.	61aa6	. 7. Sa	6S1. -	2R 2	dDl
Hwon8Ccmb	16S 2	20672	27S22	2a7a.	2a. 66	2R6.	dDl
h n8b cmb	16. 1	76a- 4SS	7622- 1a	76. S. a7	76. 21S-	SR 2	dDl
h n8b cmb	16. 2	4774S06	42a20. -	- - 1a0. 0	417a. 27	2SRS-	dDl
tCocmb	11. 1	0S1S12a	01204. 1	0101S. a	01S2a07	1R10	dDl
tCocmb	11. 2	11. 2SS6	706. aS	001762	766a47	17R60	dDl
tpnC	. 4 2	1004740	1a- . 0. 4	17S64. .	1a- 7S. 2	- R a	dDl
tpnC	. 6 2	- 2. 0. a- 2	- 262. 2- a	- - 66. S- -	- 27. . - 6a	1Ra0	dDl
tpnC	. 0 2	0. 0166	00. 4- S	aS6- 20	007641	- R17	dDl
KpEDTnC	a- 1	- S4	- 21	- S6	- 1S	- RS.	dDl
Lr wo	2S6 1	a4- 2. a	a- 7442	a4. 217	a4264S	SR .	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 1S	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMaa	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:2SJ42JSa	&wTwMv8 :u wb r :J	1. aq F UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CcT
Lr wo	2S0 1	6761. 2	02142a	0Sa101	0Sa. a4	1R0a	dDl
Lr wo	2Sa 1	- 40- . 44	- . 02772	- 472442	- . 1277-	1R S	dDl
LcTGmb	6 1	24. S712	2401- 62	2. 10- a4	2407aa6	1R 0	dDl
y wgCr l cmb	24 2	. S07. 7	. 14S24	. 24a. S	. 1. 611	1R66	dDl
y wCgwCr l r	. . 2	a. 26. 4	a0SaS.	7S660.	a06011	- R14	dDl
y n8Eeor Cmb	74 1	1. 472	1. 0. 1	1. 606	1. 64S	SRa.	dDl
y n8Eeor Cmb	7. 1	14. SS	1440.	16S- .	1. SS-	. R76	dDl
y n8Eeor Cmb	76 1	102. -	16a67	104a6	102S-	1Ra1	dDl
y n8Eeor Cmb	70 1	1S2. 4	1SS- 0	7S- 0	7006	6R64	dDl
y n8Eeor Cmb	7a 1	244a1	24. 14	24140	24- aS	SRa-	dDl
u r noEb cmb	1. S 1	124626	1264- S	12. . S7	12. . 21	SR02	dDl
u r noEb cmb	1. S 2	- a2Sa	- 7- 01	- 70a2	- 712S	2RS7	dDl
u cdkr 8	6S 2	21216	2104S	2- 1S2	22S17	4R42	dDl
NGhl DGhpml	- 1 2	260.	20SS	200.	2010	1R72	dDl
NnTwl l cmb	- 7 2	27a6. a	- S2a44	- 16140	- S. aa-	2R77	dDl
F Ghocmb	1S- 1	67aa. 11	0S. aSa6	01- 7. 2-	0S62S4S	1RS0	dDl
F Ghocmb	1S- 2	- 711S17	- - . 1640	2610a00	- 27- . 14	17R67	dDl
l dwCocmb	4. 1	4. . 0044	4. 7S1Sa	44711Sa	4. 46- 2S	1R11	dDl
l dwCocmb	4. 2	10S407	1467- .	11- - 72	14- 6S2	17R7a	dDl
l r 8 Ccmb	a2 1	7S	1S7	71	70	1SRa.	dDl
l r 8 Ccmb	00 2	1- S	11S	1S-	114	12R12	dDl
l r 8 Ccmb	0a 2	7a	11-	1S.	1S.	0R12	dDl
l c8dnC	2a 1	711aa62	717601-	72. 6S7S	717S. . .	SR0.	dDl
l c8vr p	1S0 1	12a- 1	1- 41.	1200-	1- SS6	2R0-	dDl
l c8vr p	1S7 1	12a4a	11a02	11aaS	122SS	4R6S	dDl
l nocmb	2- 2	04- 66	0. 0S.	a1S- 4	00S- .	4R a	dDl
l TpnCTcmb	a6 1	17S0a4	17- - 60	174. - 2	172a74	SR77	dDl
l TpnCTcmb	aa 1	106aa. 4	1a2a. 0-	107a64-	107a67S	1R66	dDl
l m8mp	- 4 1	- 11a62	- 1S2. 4	- S77a7	- 1S0S2	SR -	dDl
Ar pecmb	1. 7 1	7a4- 010	1S167. 06	7a026. 0	77617a-	1Ra1	dDl
Ar pecmb	1. 7 2	47- 20- -	41a- - S1	- - 2S- 6-	414. 46.	17R46	dDl
AGw8cmb	2S- 1	- S. 7	- 6S7	- 2SS	- 2a7	aR6a	dDl
AGw8cmb	2S. 1	0767	072a	0644	0a40	2R2.	dDl
AcC	11a 1	- 602.	- a- 6-	- a1a0	- 00. a	2R a	dDl
AcTwCcmb	40 1	14S7- a	14- 06a	14- S60	142. 71	1RS-	dDl
5 pwCcmb	2- a 1	674. 0	02026	0S- 2S	0Sa- 4	2R 7	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 1S	tCl Tpmb Cr T:u wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SMaa	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJ42JSa	&wTwMv8 :u wb r :J	1. aq F UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	. 1 2	. 0S7S	. 0. a7	. a000	. 0a1a	1R S	dDI
YTTr pecmb	102 1	14042	14166	147- 4	14614	2R0-	dDI
YTTr pecmb	102 2	0S- .	0SaS	0041	02a.	. R4-	dDI
YTTr pecmb	106 1	1S2- a	1S. 1-	1SS21	1S2. 0	2R4S	dDI
YTTr pecmb	106 2	1a1S2	161a2	1- 76-	16Sa2	12Raa	dDI
YTTpcmb	a7 1	1- - 70S- 2	1- 4S2- 0a	1- 4442S2	1- 414. - 0	SR17	dDI
YTTpcmb	a7 2	101- 2S2	14. 1221	1S00467	141- 764	22R6S	dDI
ZcCd	66 2	0177a	0- 217	06. . 2	0- 72-	- R17	dDI
ZcpdnCcmb	7S 1	1a. aa	17SS.	1aa. .	1aa16	1R12	dDI
ZcpdnCcmb	71 1	4S26	42- 4	41- 4	41- 1	2R 2	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t plwinI:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 - 4- - 7S4	&Cl ilbe Cpi:mwe p:J	Nu
9 8pCi:Dwe t 8p:&T :J	y sh . 2	Tq8iqnC:Mwdinl:J	1
Twip:A:cqe p: dCbdpo:J	2S2- 7S0712:2SJ4aJSa	TwiwMq8p:mwe p:J	1a. F UMR

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pwC	9 NDF DT	5 Cql
8be qCdpe	2072	242a. - .	2a61a44	24- 6. 1-	24040. .	- RS4	dt l
Cicqe nCE	12171	10aS	1060	1. aS	1u22	6RS.	dt l
Il pCqd	0a72	6. S2	0S2-	6u- S	6. 1.	1R41	dt l
Bwldpe	1- a71	20ua44	20u20-	200S- -	200. aS	SR2.	dt l
Bwldpe	1- 071	4u4- ua	4. S- - .	4. 42. 0	4u. 604	1RS2	dt l
BplE8dpe	. 71	11a2	1146	1104	11a0	1R2a	dt l
Bdqe biG	2S. 71	0S- a1uS	0Su22u-	6. 04. Sa	0S- S0u.	SR00	dt l
Bdqe biG	2S. 72	- - Sa01u	20. - a- 0	- 21aSS6	- 1S40a4	uR1S	dt l
Blne qCp	u171	40S.	a126	aSS.	4. 4u	4R a	dt l
9 woe dpe	1Su71	12.	121	0a	1Su	26R 2	dt l
9 woe dpe	1S671	4Sa.	4S10	- 0- 4	- . - 0	4R4.	dt l
9 woe dpe	11171	0S0	6aS	610	6au	6R 4	dt l
9 w8ldpe	4- 71	u- 442	u4- . 2	u- 6a6	u- u- S	SRa.	dt l
9 w8ldpe	4471	14. . 1S-	1aS0162	14. 2a2.	14. . a. u	SR4.	dt l
9 wlr nC	1271	24a14u4	2401. - 4	2a- 46. u	24u6S- .	1R04	dt l
9 wlr nC	1272	- Su41	- S4S0	- Sau2	- S61S	SR01	dt l
9 G8nlqCp	- a71	240a6- 2-	2. 24S60S	- 16u1- 4.	2uaa. 44u	12R S	dt l
9 G8nlqCp	- a72	2- u. . S	24u61a	24. 116	24aa04	2R 2	dt l
9 Glne dpe	a272	4- 14SS	4- u06S	42. 2SS	4- - 12S	1R16	dt l
9 nr w8	a. 72	1S6Sa1	1S6u- 4	1Sa- 2.	1S6S02	SR01	dt l
9 nt t pl	6- 72	204660	20u6u2	201u. 6	20aSu2	1R24	dt l
TEl t Inl dpe	1a671	21. 20	2146u	211S.	21aS1	1R 1	dt l
TEl t Inl dpe	1a672	. a. 4	. u2S	. 6S0	. 604	1R 2	dt l
Ulr dpe	16471	22- 11	2106u	22. 0S	22- aS	2R6.	dt l
Ulr dpe	16472	u. 6S	. S46	. 1a0	. Sa4	1RS.	dt l
Hwon8qCdpe	16S71	22a. a	22. 2.	22011	2204a	SR04	dt l
Hwon8qCdpe	16S72	1Su24	11S1a	1S01u	1Sua2	1R .	dt l
Kn8e dpe	16a71	1SSu2u- 4	1S2u4S6S	1S2S2260	1S1u. 02S	SR .	dt l
Kn8e dpe	16a72	4- 22460	- 614a61	41u0S1a	4S41- 4u	. R S	dt l
&Codpe	11a71	041. . u6	02012- 2	0- aSuS-	0- 40- 4S	1RS1	dt l
&Codpe	11a72	. 6u- 01	u26S2a	. 64161	. 1. a1.	uR01	dt l
&nC	a472	a10S6u4	a10a- 20	a16uu06	a10162.	SRS6	dt l
&nC	a672	. 2- . S0. 4	. a40046-	. - 41S- 00	. - 0a. a4a	1R6u	dt l
&nC	a072	242SSu-	24u- - - 2	2- u- - 40	242u. 21	2RSu	dt l
gIEt inC	u- 71	2u0	2. 2	2u.	2. S	SR S	dt l
Lpwo	2S671	221u. a	22u1- u	22u2. 6	22611S	1R61	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pl:J	LB1264S0	3 t plwinl:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 - 4- - 7S4	&Cl ilbe Cpi:mwe p:J	Nu
9 8pCi:Dwe t 8p:&T :J	y sh . 2	Tq8iqnC:Mwdinl:J	1
Twip:A:cqe p: dCbdqpo:J	2S2- 7S0712:2SJ4aJSa	TwiwMq8p:mwe p:J	1a. F UMR0

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pwC	9 NDF DT	5 Cqjl
Lpwo	2S071	1. aa1a	1. 2- S0	1. u0aa	1. aa26	1R6a	dt l
Lpwo	2Su71	u. ua42	u. 6S- 1	. S0SS2	. SSa2a	SR64	dt l
LqiGdpe	671	26- 6064	262S60a	264210.	26- - 2S6	SR42	dt l
y wkCpl dpe	2472	- 1u4a- a	- 22242u	- 166S40	- 1. 1SS4	SR.S	dt l
y wCkwCpl p	aa72	114a100	1162Suu	114ua1.	11a1. 2u	SR0u	dt l
y n8Er opCbe	. 471	11uu1	124. u	110uS	12Sa-	- R22	dt l
y n8Er opCbe	. a71	- 6S.	- u26	- 606	- 0S-	- RSS	dt l
y n8Er opCbe	. 671	auS1	611u	61a2	6S24	- R21	dt l
y n8Er opCbe	. 071	24aS	24S.	2u60	2a0a	. Ru4	dt l
y n8Er opCbe	. u71	a. 1u	66S2	64a2	6- 24	aR6u	dt l
mpnoEe dpe	1aS71	2. S02	2. S6a	2u4. 0	2uu0u	1R14	dt l
mpnoEe dpe	1aS72	. - 00	u04-	u. 4-	. S21	- Ra.	dt l
mqdvp8	6S72	126642	12. 2au	12a- 2-	120S04	1Rau	dt l
NGnl t GnIbl	- 172	210a	2aSS	2- 2a	2- - 4	6R.0	dt l
Nniwl l dpe	- . 72	1S0a. .	11S0S6	1S660a	1Su- 20	1R.a	dt l
F Gnodpe	1S- 71	01a. 462	0- . a606	0- 4- aa.	02. . a66	1R0S	dt l
F Gnodpe	1S- 72	- 2u4Su6	204046u	- 2. 626u	- 1S. 204	1SRSu	dt l
DdwCodpe	4a71	4u6- - aS	4. . 1. 64	4u441a1	4u. . u22	1R64	dt l
DdwCodpe	4a72	1a2. - .	1202a-	1a16- a	14- . 42	1SRSa	dt l
Dp8pCdpe	u271	2S	26	42	- S	- . R2a	dt l
Dp8pCdpe	0072	4S	1S	aS	- -	62R4a	dt l
Dp8pCdpe	0u72	- 2	26	- -	- S	12R4u	dt l
Dqqdn C	2u71	214S161S	21a60. . 0	22Sa0u21	2160au1S	1Ra0	dt l
Dqf pl	1S071	00a	uSu	uu-	u22	6R0a	dt l
Dqf pl	1S. 71	6au	6. 2	0- -	6. 4	aR41	dt l
Dnodpe	2- 72	0. 6SS	u2- - -	0u- S2	uSS0u	2Ra0	dt l
DiInCidpe	u671	uu0a0	. 14- 2	. 2- 02	. Sua4	2RS6	dt l
DiInCidpe	uu71	0006aa	00- 61.	0u46uu	00u6a4	SR02	dt l
Db3Vl	- 471	262u6.	26112.	2a6. - 1	26S- 1S	1R10	dt l
cplr dpe	1a. 71	1S- 11444	1S- - 4u- a	1S- 464S4	1S- - Su. a	SR10	dt l
cplr dpe	1a. 72	416- a04	- aS211u	4162461	- . 4201u	. R6u	dt l
cGw8pe	2S- 71	1aSS	14au	1260	14Su	uRu4	dt l
cGw8pe	2Sa71	2. SS	- 2a1	- 4. 2	- 214	. R26	dt l
cqC	11u71	2. 0a	2660	2. 10	2ua-	aR04	dt l
cqwCdpe	4071	6a10- 2	6a21aa	6a122a	6a10S4	SRS0	dt l
5 lwCdpe	2- u71	- 4121	- - u21	- aS66	- 4- - 6	1Ru.	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t plwinI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 4- - 7S4	&Ci ilbe Cpi:mwe p:J	Nu
9 8pCi:Dwe t 8p:&T :J	y sh . 2	Tq8piqnC:Mwdinl:J	1
Twip:A:cqe p: dCbdpo:J	2S2- 7S0712:2SJ4aJSa	TwiwMq8p:mwe p:J	1a. F UMR0

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pwC	9 NDF DT	5 Cqil
hwCwodpe	a172	144- 1-	14. S11	14aa- 6	1462u6	1R30	dt l
Yiiplr dpe	10271	62. -	6- 4-	621u	62ua	1RSS	dt l
Yiiplr dpe	10272	- 1u.	- - 0-	2. SS	- 1a4	0Raa	dt l
Yiiplr dpe	10671	aS6u	a1u4	4. a.	aS01	2R22	dt l
Yiiplr dpe	10672	1- - a0	12SSS	1- 0a0	1- S- u	0RS6	dt l
Yiildpe	u. 71	1- aS4. 41	1- . a- au2	1- u0Sua4	1- 0064a.	1R0-	dt l
Yiildpe	u. 72	1- 2. 6S.	11- 22a2	1- 2- 6S4	1261u21	uR S	dt l
ZdCd	6672	- 46u.	- 61S-	- 442a	- aS02	2Ra0	dt l
ZdqdnCdpe	. S71	2auau	262SS	26. 1u	26- 2a	2RS6	dt l
ZdqdnCdpe	. 171	aa06	au1u	6SS1	a0. .	- R3u	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll inlJa	wl P8 l N
Ll r JDl e t NpJ&TJaJ	3 - 447 S1:	&CPIlbe CpiJml e pJa	us
5 NpCiJDl e t NpJ&TJaJ	9 y SUs1:	TdNiqnCJJUl dinlJa	1
Tl ipJAJcqe pJ dCbdqpoJa	2S2- S0 12J2Sa4sa S2	Tl il UdpJml e pJa	16S: . FUMd

ul ll e pipl	9 l PP	5 uD1	5 uD2	5 uD-	5 uD9 pl C	5 uD. DT	RCdqP
: Nve qCdpe	20 2	6Sss- 0	6S0s20	6S00s2	6Ss147	SM1S	dt P
: Cicqe nCh	121 1	42s4	44- 4	4EE7	4426	- M11	dt P
: lPpCcqd	0E 2	4S2s	41E7	41S0	4S7s	1N61	dt P
Bl ldqpe	1- E 1	1E440s6	1E64271	1E6672E	1EEs660	SM0s	dt P
Bl ldqpe	1- 0 1	20671- 7	206S127	2016S6-	204s444	1N3-	dt P
BplhNNbpe	7 1	24s2	2E- E	2E2E	2E14	1M11	dt P
BqPe biG	2S7 1	677E- 6s	0S6EE- -	0S2S4SE	0S201S2	SNE1	dt P
BqPe biG	2S7 2	- 4- 7772	2s01121	27s00s0	- S776- -	7N67	dt P
Blne qCp	s1 1	0100	00E2	046S	046-	- NsE	dt P
5l oe dpe	1Ss 1	172	221	246	217	12MIE	dt P
5l oe dpe	1S6 1	40- 4	- 742	4E- 4	44S4	7MIE	dt P
5l oe dpe	111 1	244s	2EE0	2- 20	2444	4N67	dt P
5l Ndqpe	4- 1	- 17s24	- 2- 6- 0	- 2SE12	- 21- 24	SM0-	dt P
5l Ndqpe	44 1	EE6s- 0E	E46ss41	E4E04s7	E47s2- E	1M11	dt P
5l lr nC	12 1	Es01S- S	6174E0S	61S2s24	6SE6141	2N0E	dt P
5l lr nC	12 2	00S6S	06- 7S	0E012	06- s0	SNsS	dt P
5 GNlqCp	- E 1	24114- 21	207sE24-	- SSs41- 4	20- 74E66	11N3E	dt P
5 GNlqCp	- E 2	2222S2	222EEs	2- 1671	22E4s4	2M7	dt P
5 Glne dpe	E2 2	- 07- S	- 6s6s	- 0- s6	- 0- 74	1M42	dt P
5 nr l Nl	E7 2	4041E	40724	4s141	40s20	SM0s	dt P
5 nt t pl	6- 2	1s4E7E	1s4- 2-	1s71- 6	1s6S1s	1M4E	dt P
ThPt lnPdpe	1E6 1	672- 7	67047	6s- s4	67124	1N3S	dt P
ThPt lnPdpe	1E6 2	27427	277SS	276ES	2766S	SN07	dt P
Flr dpe	164 1	E40- s	E46- s	E46- S	E4667	SM11	dt P
Flr dpe	164 2	220- S	217Ss	22s0-	22ES4	2M1	dt P
Hl onNqCdpe	16S 1	61E1s	6- s11	61020	62- E2	2N3-	dt P
Hl onNqCdpe	16S 2	2742-	27162	27S7E	27220	SNE7	dt P
y nNe dpe	16E 1	7770s0E	1SSsSs7s	7671- 2-	772- - 6E	2N30	dt P
y nNe dpe	16E 2	44ssE20	- 64E0S4	- ss- - 07	4SSEs0S	1SNsE	dt P
&Codpe	11E 1	0422714	0- 7E07s	02- S024	0- 47s12	1M42	dt P
&Codpe	11E 2	1S2s2s4	s44- 26	sE77E1	71SsE4	11N2S	dt P
&nC	E4 2	- SE6E4-	- S6- 00s	- S06- 06	- S6EE66	SM-	dt P
&nC	E6 2	EEE- 241S	EE6- 6114	EE06s776	EE64Es4S	SN21	dt P
&nC	E0 2	14- 110E	1- 77s- s	14E4EEs	142sE24	1N72	dt P
Kl ht inC	s- 1	- 10	271	- E4	- 21	7N0s	dt P
Lpl o	2S6 1	47246-	4ss6S7	4sss67	4s77s1	SM44	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll inlJa	wl P8 l N
Ll r JDl e t NpJ&TJaJ	3 - 447 S1:	&CPIlbe CpiJml e pJa	us
5 NpCiJDl e t NpJ&TJaJ	9 y SUs1:	TdNbiqnCJJUl dinlJa	1
Tl ipJAJcqe pJ dCbdqpoJa	2S2- S0 12J2Sa4saS2	Tl il UdNpJml e pJa	16S: . FUMd

ul ll e pipl	9 l PP	5 uD1	5 uD2	5 uD-	5 uD9 pl C	5 uD. DT	RCdqP
Lpl o	2S0 1	4S4761	4SEE62	4S71ES	4S6EEs	SM66	dt P
Lpl o	2Ss 1	17102- E	1710170	171ss7s	1710000	SM3E	dt P
LqiGdqe	6 1	26ss022	262644E	262116E	264E444	1M42	dt P
9 l gCpPdqe	24 2	077074	07421S	071s10	07E204	SM61	dt P
9 l CgI CpPp	EE 2	0s2S41	0s6- 44	07sE10	0ss760	1M3s	dt P
9 nNNr opCbe	74 1	2ESE0	26ES1	264S1	2E7s6	- M1S	dt P
9 nNNr opCbe	7E 1	Es4-	611s	E46s	Es1S	EM02	dt P
9 nNNr opCbe	76 1	1111-	1S121	1SE21	1SEsE	4M02	dt P
9 nNNr opCbe	70 1	- 642	- 626	- 606	- 64s	SM0S	dt P
9 nNNr opCbe	7s 1	710s	722S	74S-	7260	1M27	dt P
mpnohe dqe	1ES 1	110761	12S14S	117- 61	1171E4	SM7-	dt P
mpnohe dqe	1ES 2	- 6EE6	- E7- 1	- 6Es-	- 6- E0	1M31	dt P
mqdkpN	6S 2	24s2E	2461E	2E40S	2470S	1M0s	dt P
uGnPt GnlbP	- 1 2	0s20	06s6	0EsE	0677	1M4s	dt P
unil PPdqe	- 7 2	421006	4126S2	416S77	416s26	1M11	dt P
. Gnodqe	1S- 1	041E42s	02- 627E	02s44E7	0- 12S6S	1M20	dt P
. Gnodqe	1S- 2	- EE2404	2710s7-	27E0S27	- 14246E	11M2	dt P
DdI Codqe	4E 1	4s4s642	4s7E014	4sE41sE	4s661sS	SM4-	dt P
DdI Codqe	4E 2	1E4226	127E6S	1- 2SES	1- s612	7M4S	dt P
DpNpCdqe	s2 1	2S1	2- E	2- 1	222	sM1	dt P
DpNpCdqe	00 2	140	10-	1S0	142	2- M47	dt P
DpNpCdqe	0s 2	76	124	117	11-	1- M21	dt P
DqNdnC	2s 1	1EE77Es1	1E42701s	1E- S- - 46	1E44421E	SM76	dt P
DqNpl	1S0 1	- SS7	26SS	20ES	20s6	0M41	dt P
DqNpl	1S7 1	2s2E	27S7	27SS	2s0s	1M47	dt P
Dnodqe	2- 2	626- E	6- - 6-	6222E	62041	SM72	dt P
DilnCidqe	s6 1	27- 6S7	27s2- S	27011s	276- 17	SM41	dt P
DilnCidqe	ss 1	20414EE	267612s	20- 0177	2024720	SM72	dt P
DbNbl	- 4 1	- Ss2E4	- 1S1- 4	- 1122E	- S7s01	SM4s	dt P
cplr dqe	1E7 1	1S4- ss70	1SE16s12	1S- s016E	1S44062E	SM62	dt P
cplr dqe	1E7 2	44607SE	- 026E21	- 0- 47E2	- 7064E7	1SM0S	dt P
cGI NNqe	2S- 1	2- 60	22ES	2- 72	2- - 6	- M24	dt P
cGI NNqe	2SE 1	EEE1	E01S	EE- E	EE77	1M0-	dt P
cqC	11s 1	7E07	762S	71s0	7462	2M4-	dt P
cqI Cdqe	40 1	77Es6	704- S	77E62	7ssE7	1M2E	dt P
RII Cdqe	2- s 1	0621-	00106	0E0E7	06- s-	SM7E	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll inlJa	wl P8 l N
Ll r JDl e t Nj JXTJaJ	3 - 447 S1:	&CPIlbe CpiJml e pJa	us
5 NjpCiJDl e t NjJXTJaJ	9 y SUs1:	TdjbiqnCJJl dinlJa	1
Tl ipJAJcqe pJ dCbdjpoJa	2S2- S0 12J2Sa4sa S2	Tl il UdjbJml e pJa	16S: . FUMd

ul ll e pipl	9 l PP	5 uD1	5 uD2	5 uD-	5 uD9 pl C	5 uD. DT	RCdjP
Vl Cl odpe	E1 2	6s0S1	67S62	6772-	67227	SM71	dt P
Yiiplr dpe	102 1	161sE	16S67	162S2	161E2	SM4E	dt P
Yiiplr dpe	102 2	000E	s- s6	072E	sS27	- M70	dt P
Yiiplr dpe	106 1	11014	11640	114- S	11E70	1M2s	dt P
Yiiplr dpe	106 2	16sES	1E142	1E6S7	1Es60	EM66	dt P
Yiildpe	s7 1	142111E7	1- 777s4s	141S260E	141S4E61	SM0E	dt P
Yiildpe	s7 2	1E- S124	120- 2SS	12170s-	1- 41S- E	12M0	dt P
ZdpCd	66 2	s6s14	s6406	s0Ss2	s6071	SMlE	dt P
ZdjdnCdpe	7S 1	62ESs	6271S	6- - 0s	627- 2	SM67	dt P
ZdjdnCdpe	71 1	1- - 4S	1- s41	1- 0- 2	1- 6- s	1M-	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct pIl i. IJa	wI P8 I N
LI r JDI e t NJ&TJaJ	3 3 - S27	&FFIlbe FpiJmI e pJa	u7
3 NpFiJDI e t NJ&TJaJ	3 3 - S27	TdNiq FJM O. IJa	1
TI ipJAJcpe pJdOobdpnJa	2S2 :S0:12J2Sassa4	TI il MdNJmI e pJa	16133 - Uh

ul ll e pipl	5 l PP	3 uD1	3 uD2	3 uD	3 uD5 pl F	3 uD9 DT	RFdP
dNe dFdpe	20:2	2S4y6s2	2S11646	1y0 771	2S11026	1U77	O P
dFidpe . Fh	121:1	26y 4S	2717sy4	20sy0S	20s0212	2U20	O P
dIPpFdO	0s:2	67S1	672s2	66 Ss	60s24	1Us0	O P
Bl ldpe	1 s:1	2yy 0s1	1S2y74	S267S1	S41107	1U74	O P
Bl ldpe	1 0:1	s1S 126	s 717	s110y2s	s2SSy61	US2	O P
BplhNNpe	y:1	61y774	621672	610 S0	61y624	SUs	O P
BdPe biE	2Sy:1	sy41s42	6S0s7s	64120S4	614 66	Uys	O P
BdPe biE	2Sy:2	2y 6yy0	2y064SS	2747666	2y2S677	2U24	O P
Bl. e dFp	71:1	42s1	774	4 Sy	4147	sUs6	O P
3 l ne dpe	1S7:1	s226y	s 7s1	s 0y6	s Ss	1U67	O P
3 l ne dpe	1S6:1	0 6Ss	0s 1s	06 11	0sS00	1U72	O P
3 l ne dpe	111:1	6 0067	644 41	6 y0S7	64S6S6	SUs	O P
3 l NDpe	4 :1	4S20 7	y16S66	y10014	ys 0S6	1U61	O P
3 l NDpe	44:1	620S Sy0	64s4404s	6 770770	6 011ySy	1U46	O P
3 l lr. F	12:1	26 y640	2641s26	202S204	266014y	1U0	O P
3 l lr. F	12:2	s1s1	ss1S	s 1S	s 24	SUs1	O P
3 EN.IdFp	s:1	274 742	2641yy0	26S41y6	26y6607	4U07	O P
3 EN.IdFp	s:2	166y	16600	1ss42	16 S4	4USs	O P
3 El. e dpe	s2:2	02S6 4	0171 S	0S6610	01s120	1USs	O P
3 . r l N	sy:2	12767s0	127S 1S	124 y00	120S 72	1U72	O P
3 . t t pl	6 :2	1S6y 4 1	1S67yyS4	1S1SyS21	1S4y04s2	U2S	O P
ThPt l. Pdpe	1s6:1	6	642	6s7	644	1Uy7	O P
ThPt l. Pdpe	1s6:2	27S	20	20S	2y2	1SUs	O P
Glr dpe	164:1	10s	17	160	10s	4U06	O P
Glr dpe	164:2	1S	6	y0	77	24U42	O P
Hl n. NFdpe	16S:1	0S7	0	0S7	010	2US1	O P
Hl n. NFdpe	16S:2	4yS	46S	47	407	US	O P
K. Ne dpe	16s:1	7y4442	y20 0 S	y71sy66	y 440S6	4U01	O P
K. Ne dpe	16s:2	41S 467	4Ss271y	y 77 S	4S 10S6	2USy	O P
&Fndpe	11s:1	611211	66sS0 0	6yyy210	6s70 s6	6U07	O P
&Fndpe	11s:2	7y46yS	7060S4	7sS1s0	70 7s1	2Us6	O P
&. F	s4:2	7s067y7	72741sS	714y462	7 67 0	2U62	O P
&. F	s6:2	1ss121yS	1s21 y1y2	1sSS47426	1s24 6sS0	1U60	O P
&. F	s0:2	7 y66y	yy11y7	76477S	7y7s72	2US7	O P
glht i. F	7 :1	2s0	24y	2s2	2s	1U04	O P
Lpl n	2S6:1	126746y1	12ssS010	1200 616	1266y604	SU7y	O P

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct pIl i. lJa	wl P8 l N
Ll r JDl e t Nb.&TJaJ	3 3 - S27	&FPIlbe FpiJml e pJa	u7
3 NbpFiJDl e t Nb.&TJaJ	3 3 - S27	TdNiq FJM Cl. lJa	1
Tl ipJAJcqe pJdCobdpnJa	2S2 :S0:12J2Sassa4	Tl il MdNJml e pJa	16133 - Uh

ul ll e pipl	5 l PP	3 uD1	3 uD2	3 uD	3 uD5 pl F	3 uD9 DT	RFqP
LpI n	2S0:1	1Sy4062s	1S762724	1Sy2s127	1Sy117sy	SU4S	Cl P
LpI n	2S7:1	sSsS4Ss1	sS2s17s2	s1Ss7674	sS6S4762	SU72	Cl P
LqiEdpe	6:1	220SSsy	22y746y	24S260y	2 2 0 6	USS	Cl P
5 l kFpPdpe	24:2	27y1216S	27422S71	2010Sy y	27167 y	U1y	Cl P
5 l FkI FpPp	ss:2	yS1yy	06 1s4	0261S6	0y0S74	2U44	Cl P
5 . NrnpFbe	y4:1	yy0s774	1S1S2710	y7s64S6	yy07 6y	1U2	Cl P
5 . NrnpFbe	ys:1	14 y 2ys	14s07y6y	1440s404	14472s0y	SU64	Cl P
5 . NrnpFbe	y6:1	1s6Ss7y4	16SS002s	1s77ySyS	1s7 42 6	1U S	Cl P
5 . NrnpFbe	y0:1	70074ys	707y2s1	701 6	706S 61	SU40	Cl P
5 . NrnpFbe	y7:1	2 2S 022	2 4y2S4	2 21y4ys	2 2s0404	SU 4	Cl P
mp. nhe dpe	1sS:1	240	240	240	240	SUSS	Cl P
mp. nhe dpe	1sS:2	40	6S	s0	s4	12U04	Cl P
mqOvpN	6S:2	sS06	44SsS	4267	4 S20	2U42	Cl P
uE. Pt E. IbP	1:2	2S7S0	21S16	17612	2S14s	6U61	Cl P
u. il PPdpe	y:2	yS4s 1S	ySsyyy0	76764 1	7y Ss0y	2U 0	Cl P
9 E. ndpe	1S :1	6SSS4S2	6272026	6s0s114	6276S7S	4Us0	Cl P
9 E. ndpe	1S :2	2y6y421	2yS1 s2	271y2yy	27y66y1	2U6S	Cl P
DOl Fndpe	4s:1	4112S16	4 SsySs	44y0 71	4 Ss1S1	4U47	Cl P
DOl Fndpe	4s:2	1 6Ss1	1 6 s4	1 2444	1 4ysS	1U61	Cl P
DpNbFdpe	72:1	46sy0	402S2	46sss	4607s	SU00	Cl P
DpNbFdpe	00:2	1 4S	1 7	1 yS	1 01	1Uy7	Cl P
DpNbFdpe	07:2	4676	4012	44 1	461S	U 0	Cl P
DqNbD F	27:1	2ySS6204	27y12s4s	2y41syyS	2y1116S	SUy2	Cl P
DqNbpl	1S0:1	442272	470S67	40624y	467s	SU60	Cl P
DqNbpl	1Sy:1	S2707	4 64S	20 7yy	S67S6	1USS6	Cl P
D. ndpe	2 :2	s11y7 2	s1S0S4s1	47sS7112	sS2s7y6s	USS2	Cl P
DiI. Fidpe	76:1	1y 4s74	1y0s6 2s	1y62y2S6	1ys0 02	1U11	Cl P
DiI. Fidpe	77:1	101612601	101s012y1	10S2s 4	10114s0y7	SU4s	Cl P
DbNbl	4:1	s62 72	s61 16	s6S1 2	s61200	SU2S	Cl P
cplr dpe	1sy:1	7y6240y	ys7S201	y02sS4S	y422sy0	4U S	Cl P
cplr dpe	1sy:2	y61S0S	y6y1 s	71s24s	y1s1sS	2U21	Cl P
cEl NbDpe	2S :1	2y66 02	2y7700y	S2 607	2yy2y4	SUy6	Cl P
cEl NbDpe	2Ss:1	0S6 S 1	01y67SS	021syS2	01s7s07	1U16	Cl P
cqF	117:1	22S 62S	220Sss2	22s 1SS	2242424	1Uss	Cl P
cqI Fdpe	40:1	7ySS44	7y7y60	774 66	7y1126	SU1y	Cl P
RII Fdpe	2 7:1	1S7022 7	1S07 s11	1Sy4Ss0s	1S76s441	SU02	Cl P

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LBJmbe r plJa	LB1264S0	Ct pIl i. lJa	wl P8 l N
Ll r JDl e t Nj.J&TJaJ	3 3 - S27	&FPIlbe FpiJml e pJa	u7
3 NjpFiJDl e t NjJ&TJaJ	3 3 - S27	Tdjbiq FJM Ol. lJa	1
Tl ipJAJcqe pJdOobdjpnJa	2S2 :S0:12J2Sassa4	Tl il MdjbJml e pJa	16133 - Uh

ul ll e pipl	5 l PP	3 uD1	3 uD2	3 uD	3 uD5 pl F	3 uD9 DT	RFdjP
- l Fl ndpe	s1:2	s676s	ss70s2	s4y1y2	ss7766	1U04	Ol P
Yiiplr dpe	102:1	242	210	2s7	2 y	7U07	Ol P
Yiiplr dpe	102:2	7y	107	07	11s	40U04	Ol P
Yiiplr dpe	106:1	1 616	1 441	14416	1 724	U06	Ol P
Yiiplr dpe	106:2	16SS4	1sy1S	1s 47	1s0s4	2U2s	Ol P
Yiildpe	7y:1	11 07622	12S SS01	124S14y4	11y 602y	4U4	Ol P
Yiildpe	7y:2	122 404	12146s6	11021S4	12S 411	2U27	Ol P
ZdjFO	66:2	1210 16	12201S1	11746y6	12Sy0S4	1U74	Ol P
ZdjO Fdpe	yS:1	4627 47	4061704	46S06	466sys2	1U0y	Ol P
ZdjO Fdpe	y1:1	y767y1	1SSsy4S	yyS70y	yy4s0S	1US1	Ol P

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LB:umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 3 BS2-	t. l Tpmb . r Tuwb r :J	N-
3 8r . Tl wb D8 :t&:J	3 3 BS2-	&8mTC. :MwdTCpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S27 S0 12:2SJa- Ja6	&wTwMv8 :u wb r :J	1623 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl 5 r w.	3 Nl 9 l &	R. cT
q8mb c mb	20 2	22S	a1S	- ay	a7S	6SU7y	dDl
q. Tb C. h	121 1	1610	yy2	1710	17Sy	27Uy S	dDl
qpl r . cl	0a 2	6	16	27	1a	a6Uy6	dDl
Bwpcmb	17a 1	62a	20a	10a	7a-	6aUy4	dDl
Bwpcmb	170 1	yS-	aSS	7a-	a- y	4- UaS	dDl
Br ph8&mb	y 1	211	102	11S	16a	71US4	dDl
Bdb mTE	2Sy 1	6022- 1-	6y12742	0S0- 6- 0	6yS4616	2Ua-	dDl
Bdb mTE	2Sy 2	710- 2- 4	722a2a6	7104670	71y2026	SUJ-	dDl
BpCb c r	- 1 1	7610	41y2	4742	4Sa1	yU4a	dDl
3 wob mb	1S- 1	46	2y	2a	77	77US6	dDl
3 wob mb	1S6 1	7642	74Sy	7674	7a62	7U02	dDl
3 wob mb	111 1	a1a	4a-	4- 7	4- 6	aUy4	dDl
3 w8dmb	47 1	- ay	6- 1	a1S	6- 7	2aUa2	dDl
3 w8dmb	44 1	4y40a	40- a4	42ay1	4664S	0U02	dDl
3 wpeC.	12 1	27426a6	272aa41	274a422	2770- 07	SU46	dDl
3 wpeC.	12 2	204ay	2- 7a7	20y61	20y24	1U6S	dDl
3 E8Qpc r	7a 1	2SS4742	1y- 16yS	1y24y44	1y0S72a	2US-	dDl
3 E8Qpc r	7a 2	121- S	121- S	12664	12742	2U26	dDl
3 EpCb mb	a2 2	114S	11S7	12- 0	1100	- U24	dDl
3 Cew8T	ay 2	- 7	247	760	271	61U40	dDl
3 CDDr p	67 2	1aa7	2064	7y14	2044	47US2	dDl
&hl DpCl mb	1a6 1	10	-	-	11	47U74	dDl
&hl DpCl mb	1a6 2	S	0	17	0	yyUy-	dDl
Fpemb	164 1	aS	- 7	60	60	2aUSS	dDl
Fpemb	164 2	27	27	a7	77	a1Uy0	dDl
GwoC8c mb	16S 1	- 7	60	a-	6y	1- U77	dDl
GwoC8c mb	16S 2	140	1S0	170	17S	16US1	dDl
HC8b mb	16a 1	y44y06S	ya47166	1SSaya07	y6- 4166	7U7y	dDl
HC8b mb	16a 2	4S- SS46	4S07S64	411SS2a	4S- 0012	SU4-	dDl
t. omb	11a 1	6ySaa20	0S- S2- 4	02a6S2a	0S- S612	2U4-	dDl
t. omb	11a 2	y2aS64	y76S7a	y4a746	y7a4- 2	1USy	dDl
tpC.	a4 2	6- 7	1y2-	7727	1y0-	66U0a	dDl
tpC.	a6 2	y647	721a4	a1166	7Sy- -	60US-	dDl
tpC.	a0 2	2- y	00-	17SS	0- y	64U1S	dDl
KphDTC.	- 7 1	262	21a	24S	27y	yUy7	dDl
Lr wo	2S6 1	7- 64	2a10	16ya	26y2	4SU6-	dDl

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Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 3 BS2-	t. l Tpmb . r Tuwb r :J	N-
3 8r . Tl wb D8 :t&:J	3 3 BS2-	&8mTC. :MwdTCpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S27 S0 12:2SJa- Ja6	&wTwMv8 :uwb r :J	1623 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl 5 r w.	3 Nl 9 l &	R. cT
Lr wo	2S0 1	7467	2712	12- y	27aa	46U1y	dDl
Lr wo	2S- 1	1aa1y	y- 0a	642y	1S6S-	47U26	dDl
LcIEcmb	6 1	24S7y41	27024S1	24- 2y12	241y0a1	2U7a	dDl
5 wg. r l cmb	24 2	12a-	4147	6061	4Sa4	60Uy	dDl
5 w. gw. r l r	aa 2	217	017	1770	0aa	04U6S	dDl
5 C8neor . mb	y4 1	2Say	1ySS	y60	1642	7aUy4	dDl
5 C8neor . mb	ya 1	71a1	2174	17S-	21y-	41Uyy	dDl
5 C8neor . mb	y6 1	7aS1	7S7a	16S-	201a	76U72	dDl
5 C8neor . mb	y0 1	21- 4	1a2a	y0a	1a61	7- U06	dDl
5 C8neor . mb	y- 1	4y44	7442	2a2a	7670	77Ua0	dDl
u r Cohb cmb	1aS 1	77	17	20	24	41U66	dDl
u r Cohb cmb	1aS 2	7	7	S	2	- 6U6S	dDl
u cdkr 8	6S 2	- S	00	120	y4	2yU6S	dDl
NECl DECpm	71 2	a-	0a	1S-	- 1	71U6S	dDl
NCTwl l cmb	7y 2	12722	170S0	14277	1742S	0U7a	dDl
9 ECocmb	1S7 1	0S20- S-	6- 6a466	077S4- 7	0S04a- a	7U74	dDl
9 ECocmb	1S7 2	71a- aS4	72S7711	71017- 6	7100077	SU07	dDl
l dw. ocmb	4a 1	4a27y00	44y- 270	40S7- 6S	4a0a7a-	2U4a	dDl
l dw. ocmb	4a 2	17- - 6-	17y7yS	14S1- 6	17y4- 1	SU4-	dDl
l r 8 . cmb	- 2 1	2-	aa	1	y	4- 1Uy7	dDl
l r 8 . cmb	00 2	7	S	S	1	107U21	dDl
l r 8 . cmb	0- 2	10	10	21	1-	12U6S	dDl
l 8dC.	2- 1	1yy2S7	1y7S46	1- 6214	1y2- 21	7U70	dDl
l 8vr p	1S0 1	7S-	22a	2a-	264	1aUyS	dDl
l 8vr p	1Sy 1	1- 7	242	2S-	211	17Uy6	dDl
l Cocmb	27 2	71y44	70470	42a04	7071-	14U2a	dDl
l TpC. Tcmb	- 6 1	2y06	2042	14SS	2707	7aUy4	dDl
l TpC. Tcmb	- - 1	22y17	212ay	0762	1010-	4yU02	dDl
l m8mp	74 1	7S2100	7S6S27	7Syyy1	7S6S64	1U2-	dDl
Ar pecmb	1ay 1	y600a- -	ya7a1S7	1S42y277	y- - S641	4Uy6	dDl
Ar pecmb	1ay 2	4SaaS6-	7y- 61- S	4S1ya7-	4S2S262	SUy6	dDl
AEw8mb	2S7 1	142a	17a-	y10	1277	22U4S	dDl
AEw8mb	2Sa 1	7- S1	72- 4	2410	7160	22US-	dDl
Ac	11- 1	16S-	12aS	1S- 7	1714	2SU42	dDl
AcTw. cmb	40 1	- a-	6a-	277	a- 7	a4U02	dDl
Rpw. cmb	27- 1	1yy7	1S10	410	1142	6yU66	dDl

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Inst Id :P8

LB:u mb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 3 BS2-	t. l Tpmb . r Tu wb r :J	N-
3 8r . Tl wb D8 :t&:J	3 3 BS2-	&8mTC. :MwdTCpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S27 S0 12:2SJa- Ja6	&wTwMt8 :u wb r :J	1623 3 BFlb

Nwpwb r Tr p	5 wl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Vw. wocmb	a1 2	77	127	1- S	112	6aly1	dDl
YTTr pecmb	102 1	60	2a	a-	aS	44U1S	dDl
YTTr pecmb	102 2	77	22	10	24	7aU24	dDl
YTTr pecmb	106 1	122a	1S- 7	1S77	1114	- ly7	dDl
YTTr pecmb	106 2	1S0aa	1S- yy	1Syyy	1S- - 4	1U17	dDl
YTTpcmb	- y 1	12a26Sy0	12aa4a74	171470- 1	12041401	2U04	dDl
YTTpcmb	- y 2	124S6- 2	127ya6y	127144y	1270277	SU41	dDl
Zc d	66 2	1yS	7S0	467	72S	42U6	dDl
ZqpdC. cmb	yS 1	1S60	yaS	6aS	- - y	24U1-	dDl
ZqpdC. cmb	y1 1	210	10a	1SS	164	76US0	dDl

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O3446

Test : Metals CLP MS FULL

Prepbatch ID : PB1536992

Sequence ID/Qc Batch ID: LB1094, 72

Standard ID :
MP746312MP758152MP756902MP791152MP791192MP791052MP791072MP791082MP791312MP791302MP791352MP7913
92MP790372MP790382MP790362MP7904, 2MP790412MP790402MP790432MP790442MP790452MP790472

Chemical ID :
M44, 82M49572M47, 72M47182M47982M48052M48742M48752M48792M48772M488, 2M48812M48802M48832M48842M48852
M48892M48882M48862M48612M5, 162M5, 0, 2M51842M51602M51632M50, , 2M50, 12M50042M50072M50062M503, 2M50312
M50442M50452M50862M50632M50682M53, 12M53872M54482M54502M54982M54962M54732M55012M55552M55952M55752
M55872M55672M55662M59, 32M59, 92W09, 92

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
W45	514:HCL	MP74325	04/53/9092	03/07/9092	Aa-aTet:r akl a	s onc	s onc	Nin:Hc 04/53/9092

FROM 5. 00m00000l :of:+ 9W0W6:. 00m00000l :of:M. 4. 9::=:Fina :Quantity19000m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W4	Cb s CrnCAA:APjJ w	MP7. S5.	0W59/9092	0W20/9092	Aa-aTet:r akl a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 0W52/9092

FROM 0m9. 000l :of:M475S:6:0m9. 000l :of:M47WS:6:0m9. 000l :of:M4S9. :6:0m9. 000l :of:M4S74:6:0m9. 000l :of:M4S7W6:0m9. 000l :
of:M4S77:6:0m9. 000l :of:M4SS5:6:0m9. 000l :of:M4SS. :6:0m9. 000l :of:M4SS3:6:0m9. 000l :of:M. 993:6:0m9. 000l :of:M. 920:6:
0m9. 000l :of:M. 472:6:0m0000l :of:M4W 7:6:0m0000l :of:M. 994:6:0m0000l :of:M. 9S3:6:0m0000l :of:M. . 95:6:5m9. 000l :
of:M4707:6:5m9. 000l :of:M4SS2:6:5m9. 000l :of:M4SSW6:5m9. 000l :of:M4SSS:6:5m9. 000l :of:M4S35:6:5m9. 000l :of:M. 539:6:
59m0000l :of:M. 532:6:59m0000l :of:M. 900:6:59m0000l :of:M. 905:6:59m0000l :of:M. 4WS:6:5. 5m9. 000l :of:+ 9W0W6:
9m0000l :of:M4SS4:6:9m0000l :of:M. 2S7:6:9m0000l :of:M. . . . :6:. m00000l :of:M. 93S:6:. m00000l :of:M. . 7. :6:Wm9. 000l :
of:M4S7. :6:Wm9. 000l :of:M4SS0:6:Wm9. 000l :of:M4SS9::=:Fina :Quantity19. 0m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5V3	515Hs b 2	MP7. 3V9	0W92/9092	59/50/9092	B EBc-c_:jkaaO	s onc	s onc	Aa-aTet:r akI a 0W92/9092

FROM 59. 0r00000I :of:M. . S7:6:59. 0r00000I :of:+ 9W0W:=:Fina :Quantity19. 00r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5599	jCPMA:CBLjN: NLBs J (A0/jCN/CCN)	MP7W55.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 9. r00000I :of:M. W02:6:439. r00000I :of:+ 9W0W6:. 0r00000I :of:M. . 37::=:Fina :Quantity1. 000r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9309	AS:jCPMA	MP7W55W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 5m00000l :of:M. 9S3:6:9m0000l :of:M. 905:6:9m0000l :of:M. 93S:6:. m00000l :of:M. 532:6:. m00000l :of:M. 900:6:. m00000l : of:M. 4WS:6:73m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. S	jCV(AFBM)	MP7W59.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 9m00000l :of:M. 932:6:3Sm00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5549	jCAB:jCPMA	MP7W597	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:30m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5542	jCABN:jCPMA	MP7W59S	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:50m00000l :of:M. 94. :6:S0m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
S70	jCPMA:APjJ w:Ab LrN	MP7W525	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 0r4. 000l :of:M4SS2:6:. r00000l :of:M440S:6:. r00000l :of:M. . W :6:23m. 000l :of:MP7W55. ::=:Fina :Quantity1. 0r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W0	MG:50PPM:Fb R:8Us w	MP7W529	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 0r05000l :of:M. 4WS:6:3r03000l :of:MP7W55. ::=:Fina :Quantity1500r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2S34	8Us w:900PPN	MP7W52.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM 9m00000l :of:M. 925:6:9m00000l :of:MP7W529:6:3Wm00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2302	jAA:2PPM	MP7W52W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/02/9092

FROM . m00000l :of:M. . 37:6:7. m00000l :of:M. 44S:6:570m00000l :of:MP7W55. ::=:Fina :Quantity19. 0m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2347	A7(AFBM,W090,900m6)	MP7W027	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 5m00000I :of:M4S7. :6:5m00000I :of:M4SS4:6:5m00000I :of:M4SSW6:5m00000I :of:M. 993:6:5m00000I :of:M. 920:6:5m00000I : of:M. 9S3:6:50m00000I :of:M4SSS:6:50m00000I :of:M. 539:6:50m00000I :of:M. . 33:6:9m00000I :of:M. 053:6:9m00000I :of: M. 090:6:9m0000I :of:M. 472:6:4m00000I :of:M4SS5:6:4m00000I :of:M. 2S7:6:4m00000I :of:M. 905:6:4m00000I :of:M. 93S:6: . m00000I :of:M. W0W6:. 0m00000I :of:M. 205:6:S97m00000I :of:+ 9W0W6:3m00000I :of:M4S35:6:3m00000I :of:M. 5S4:6: 3m00000I :of:M. . 95:6:3m00000I :of:M. 532:6:3m00000I :of:M. 900:6:3m00000I :of:M. 4WS::=:Fina :Quantity15000m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
234S	AW(AFBM,W090,900m6)	MP7W02S	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:4Sm0000I :of:+ 9W0W6:. 0m00000I :of:MP7W027::=:Fina :Quantity1500m000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2343	A. (AFBM,W090,900mS)	MP7W023	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:72m0000I :of:+ 9W0W6:9. m00000I :of:MP7W027::=:Fina :Quantity1500m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 4	A4(AFBM,W090,900mS)	MP7W040	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:SW00000I :of:+ 9W0W6:59m0000I :of:MP7W027::=:Fina :Quantity1500m000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 5	A2(AFBM,:W090,900n6)	MP7W945	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5n00000l :of:M. . 33:6:SSm0000l :of:+ 9W0W6:50n00000l :of:MP7W92S::=:Fina :Quantity1500n000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. .	A9Cb s C(AFBM,W090,900n6)	MP7W949	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0n0. 000l :of:M47W6:6:0n0. 000l :of:M4S9. :6:0n0. 000l :of:M4S74:6:0n0. 000l :of:M4S7W6:0n0. 000l :of:M4S77:6:0n0. 000l :of:M4SS5:6:0n0. 000l :of:M4SS. :6:0n0. 000l :of:M4SS3:6:0n0. 000l :of:M. 5S4:6:0n0. 000l :of:M. 993:6:0n0. 000l :of:M. 920:6:0n0. 000l :of:M. 4W3:6:0n50000l :of:M4W 7:6:0n50000l :of:M4S35:6:0n50000l :of:M. 994:6:0n50000l :of:M. 9S3:6:0n50000l :of:M. . 95:6:0n9. 000l :of:M4SS2:6:0n9. 000l :of:M4SSW6:0n9. 000l :of:M4SSS:6:0n9. 000l :of:M. 539:6:0n9. 000l :of:M. 997:6:0n9. 000l :of:M. 93S:6:0m0000l :of:M4SS4:6:0m0000l :of:M. 2S7:6:5n9. 000l :of:M4S7. :6:5n9. 000l :of:M4SS0:6:5n9. 000l :of:M4SS9:6:9m0000l :of:M. 532:6:9m0000l :of:M. 900:6:9m0000l :of:M. 905:6:9m0000l :of:M. 4W6:6:9m0000l :of:M. W0W6:99. n5. 000l :of:+ 9W0W6:. n00000l :of:M. . 33::=:Fina :Quantity19. 0n000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. W	A9(AFBM,W090,900mS)	MP7W942	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:3Sm00000I :of:+ 9W0W6:0m0000I :of:MP7W949::=:Fina :Quantity1500m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 7	A5(AFBM,W090,900mS)	MP7W944	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m0000I :of:M. W0W6:5m00000I :of:M. . 33:6:SSm0000I :of:+ 9W0W6:50m00000I :of:MP7W942::=:Fina :Quantity1500m000::I

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W5	CCV	MP7W94.	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m0000I :of:M4S7. :6:0m0000I :of:M4SS4:6:0m0000I :of:M4SSW6:0m0000I :of:M. 053:6:0m0000I :of:M. 993:6:0m0000I : of:M. 920:6:5m00000I :of:M. 090:6:50m00000I :of:M. . 33:6:59m4. 000I :of:M. 93S:6:59m0000I :of:M. 4W3:6:9m00000I :of: M4SS5:6:94m3. 000I :of:M. 532:6:94m3. 000I :of:M. 900:6:94m3. 000I :of:M. 905:6:94m3. 000I :of:M. 4WS:6:9. m00000I :of: M. 205:6:4m0000I :of:M4S35:6:4m0000I :of:M. 5S4:6:4m0000I :of:M. . 95:6:4m3. 000I :of:M. 9S3:6:. m00000I :of:M. 539:6: . m00000I :of:M. W0W6:S0. m60000I :of:+ 9W0W:=:Fina :Quantity15000m000::I

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W4	Cb s CrnCAA:APjJ w	MP7W947	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	Mw8BLAKPjP w88wK2:(B)	Nin:Hc 07/59/9092

FROM 0m3. 000I :of:M47WS:6:0m3. 000I :of:M4S9. :6:0m3. 000I :of:M4S74:6:0m3. 000I :of:M4S7W6:0m3. 000I :of:M4S77:6:0m3. 000I : of:M4SS5:6:0m3. 000I :of:M4SS. :6:0m3. 000I :of:M4SS3:6:0m3. 000I :of:M. 5S4:6:0m3. 000I :of:M. 993:6:0m3. 000I :of:M. 920:6: 0m3. 000I :of:M. 472:6:0m0000I :of:M4W 7:6:0m0000I :of:M. 994:6:0m0000I :of:M. 9S3:6:0m0000I :of:M. . 95:6:5m3. 000I : of:M4707:6:5m3. 000I :of:M4SS2:6:5m3. 000I :of:M4SSW6:5m3. 000I :of:M4SSS:6:5m3. 000I :of:M4S35:6:5m3. 000I :of:M. 539:6: 59m0000I :of:M. 532:6:59m0000I :of:M. 900:6:59m0000I :of:M. 905:6:59m0000I :of:M. 4WS:6:5. 5m3. 000I :of:+ 9W0W6: 9m0000I :of:M4SS4:6:9m0000I :of:M. 2S7:6:9m0000I :of:M. W0W6:. m00000I :of:M. 93S:6:. m00000I :of:M. . 33:6:W9. 000I : of:M4S7. :6:W9. 000I :of:M4SS0:6:W9. 000I :of:M4SS9::=:Fina :Quantity19. 0m000::I

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	P2-MEB683701	08/21/2023	09/25/2020 / jaswal	08/27/2019 / BIN	M4408

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	P2-V685591	12/05/2023	11/21/2020 / bin	08/21/2020 / bin	M4707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Manganese, Mn, 500 ml, 1000 PPM	070620	07/06/2023	01/14/2021 / bin	01/12/2021 / bin	M4718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Boron (B)	031921	03/19/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5229

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	073021	07/30/2024	05/08/2023 / jaswal	07/05/2022 / bin	M5230

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	R2-MEB695520	11/26/2023	11/27/2022 / jaswal	07/06/2022 / jaswal	M5231

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	05/01/2022 / jaswal	04/01/2022 / jaswal	M5301

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	S2-MEB709511	03/06/2024	03/07/2023 / jaswal	04/01/2022 / jaswal	M5448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	09/07/2023	03/26/2023 / Al-Terek	02/24/2022 / Al-Terek	M5452

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	11/26/2023	05/24/2023 / Al-Terek	02/24/2022 / Al-Terek	M5555

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/09/2023	06/09/2023 / Al-Terek	01/13/2023 / Al-Terek	M5575

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	P2-MEB683701
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**100.0 ± 0.7 µg/mL**	**Arsenic, As**	**40.00 ± 0.21 µg/mL**
Cadmium, Cd	**49.98 ± 0.22 µg/mL**	**Lead, Pb**	**20.00 ± 0.09 µg/mL**
Selenium, Se	**10.00 ± 0.06 µg/mL**	**Thallium, Tl**	**50.02 ± 0.26 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 21, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 21, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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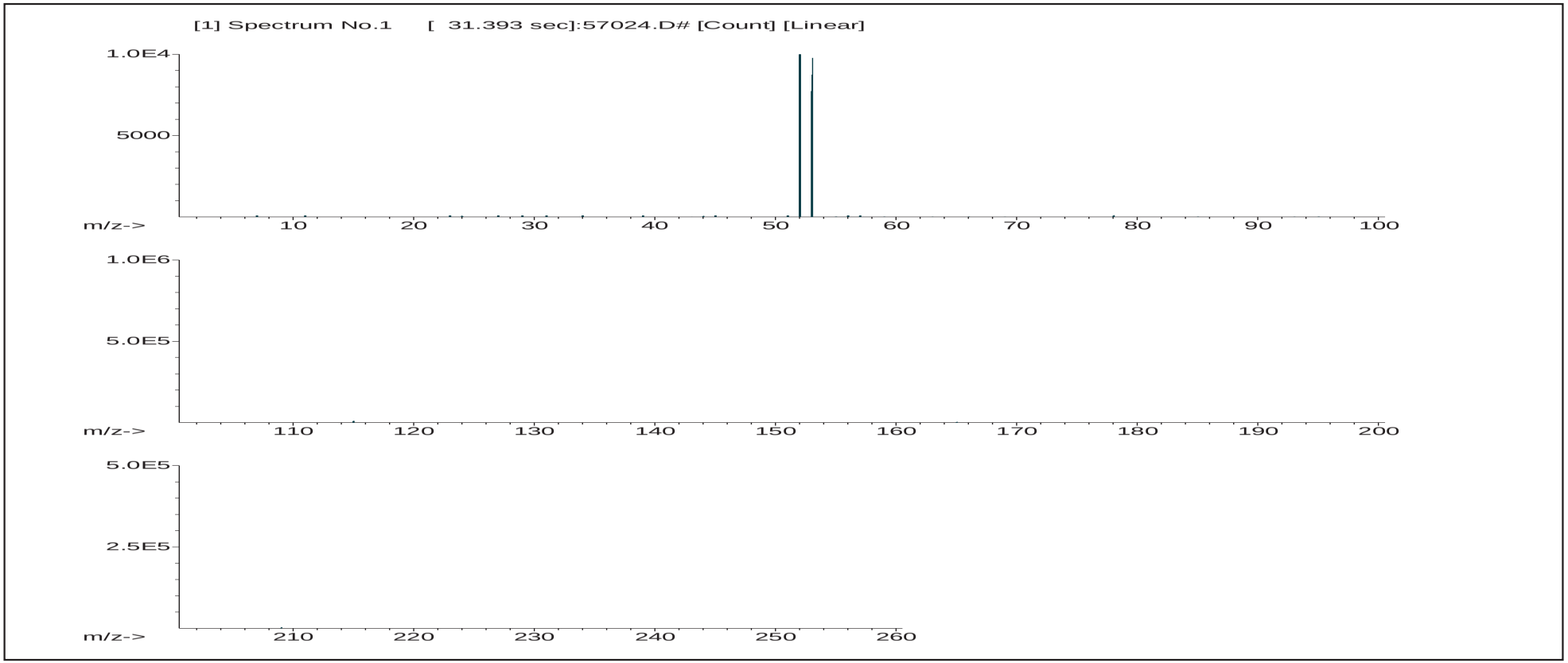
976

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	19410105	Nitric Acid	
Lot Number:	**082620**			
Description:	**Chromium (Cr)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	082623			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium (III) nitrate nonahydrate (Cr)	58124	121619	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



977

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	P2-V685591
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9939%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **1002 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000273	M	Eu	<	0.000118	O	Na		0.010915	M	Se	<	0.001167	M	Zn	<	0.006080
M	Al		0.006218	M	Fe		0.023106	M	Nb	<	0.001479	O	Si		0.036363	M	Zr	<	0.003181
M	As	<	0.000540	M	Ga	<	0.009451	M	Nd	<	0.000118	M	Sm	<	0.000118				
M	Au	<	0.000191	M	Gd	<	0.000118	M	Ni	<	0.003169	M	Sn	<	0.000733				
M	B	<	0.002950	M	Ge	<	0.000434	M	Os	<	0.000150	M	Sr		0.000060				
M	Ba	<	0.001024	M	Hf	<	0.000118	O	P	<	0.056000	M	Ta	<	0.000118				
M	Be	<	0.000118	M	Hg	<	0.000170	M	Pb		0.000241	M	Tb	<	0.000118				
M	Bi	<	0.000363	M	Ho	<	0.000118	M	Pd	<	0.000140	M	Te	<	0.002236				
O	Ca		0.011869	M	In	<	0.000118	M	Pr	<	0.000118	M	Th	<	0.000118				
M	Cd	<	0.000145	M	Ir	<	0.000118	M	Pt	<	0.000118	M	Ti		0.001386				
M	Ce	<	0.000245	M	K		0.002082	M	Rb	<	0.000118	M	Tl	<	0.000118				
M	Co	<	0.000119	M	La	<	0.000118	M	Re	<	0.000118	M	Tm	<	0.000118				
O	Cr		0.017206	M	Li	<	0.000501	M	Rh	<	0.000118	M	U	<	0.000395				
M	Cs		0.000477	M	Lu	<	0.000118	M	Ru	<	0.000118	s	V	<					
M	Cu	<	0.002021	M	Mg		0.000612	n	S	<		M	W		0.000174				
M	Dy	<	0.000118	M	Mn		0.000649	M	Sb		0.008706	M	Y	<	0.000118				
M	Er	<	0.000118	O	Mo		0.007182	M	Sc	<	0.000118	M	Yb	<	0.000118				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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M4718 R: 01/12/21 (RA)

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982

CERTIFIED WEIGHT REPORT:

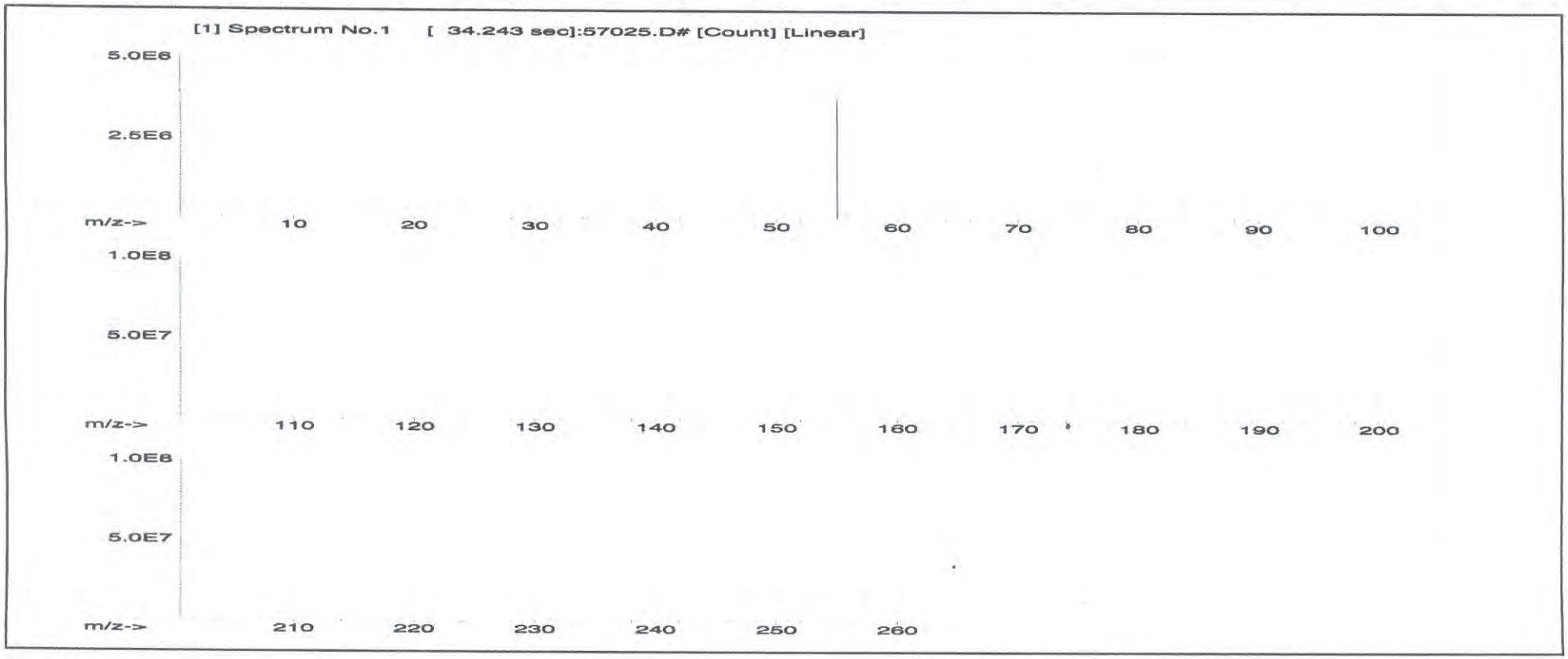
		Lot #	Solvent:
Part Number:	**58025**	19410105	Nitric Acid
Lot Number:	**070620**		
Description:	**Manganese (Mn)**		

2.0%	40.0 (mL)	Nitric Acid	

Formulated By:	Lawrence Barry	070620
Reviewed By:	Pedro L. Rentas	070620

Expiration Date: 070623
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.61 0.153 Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese (II) nitrate tetrahydrate (Mn)	58125	010720	0.1000	199.9	0.084	1000	10000.7	**1000.0**	**2.2**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



983

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M4768 R: 10/28/2020 (BH)

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984

CERTIFIED WEIGHT REPORT:

Part Number: **57028**
Lot Number: **072420**
Description: **Nickel (Ni)**

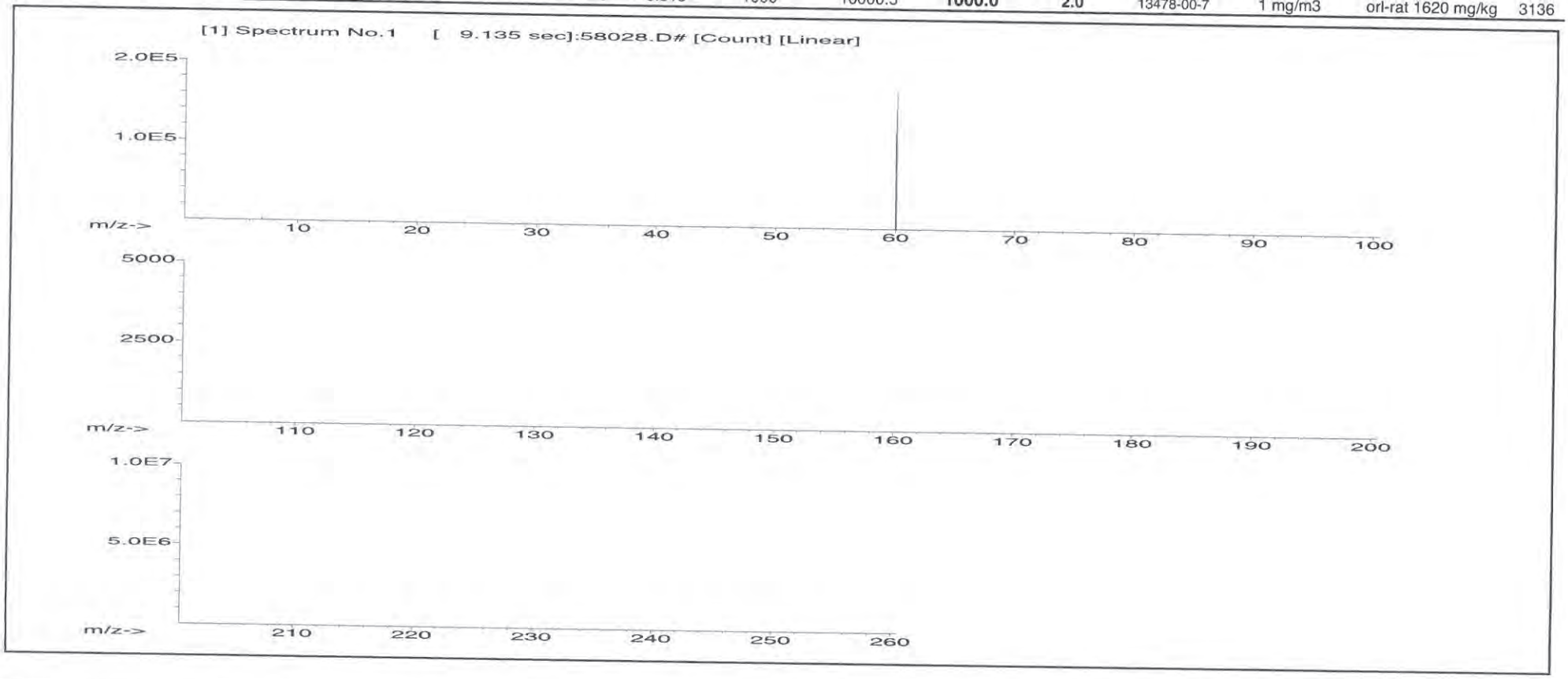
Expiration Date: 072423
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060
Volume shown below was diluted to (mL): 2000.02

	Lot #	**Solvent:**	
	19410105	Nitric Acid	
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 072420
Reviewed By: Pedro L. Rentas 072420

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Nickel (II) nitrate Hexahydrate (Ni)	58128	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



985

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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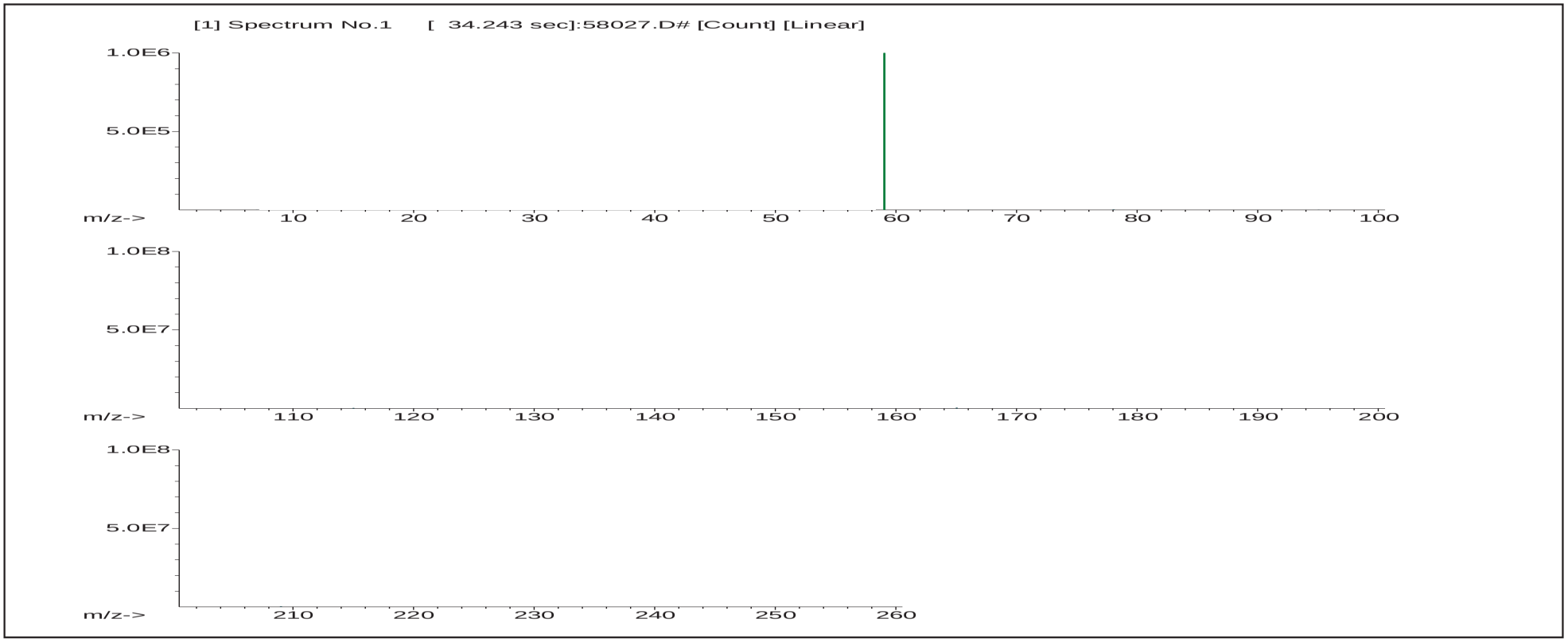
986

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57027**	19410105	Nitric Acid
Lot Number:	**020821**		
Description:	**Cobalt (Co)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	020824		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty

Formulated By:	Lawrence Barry	020821
Reviewed By:	Pedro L. Rentas	020821

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 mg/kg	3113



987

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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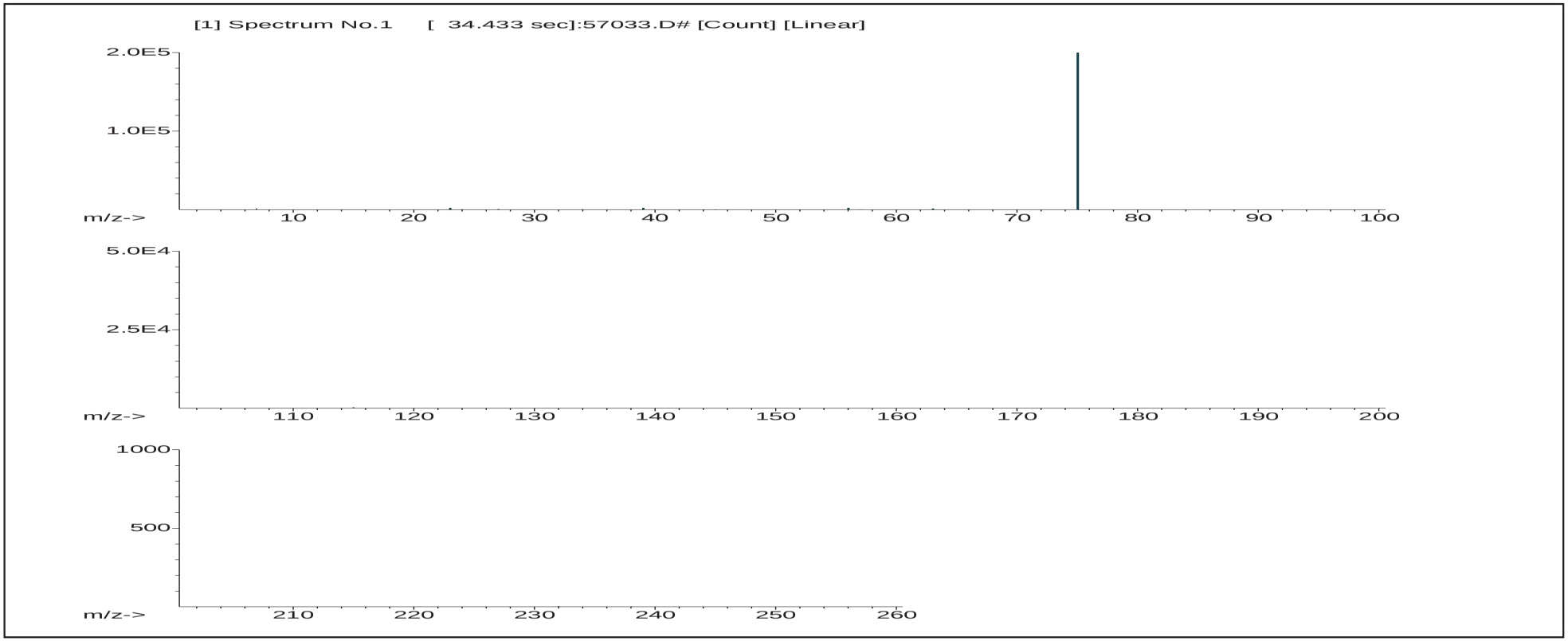
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57033**	19410105	Nitric Acid
Lot Number:	**012521**		
Description:	**Arsenic (As)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	012524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

988

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



689

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

Part Number: **57005**
Lot Number: **031921**
Description: **Boron (B)**

Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
2.0%	40.0 (mL)	Ammonium hydroxide	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

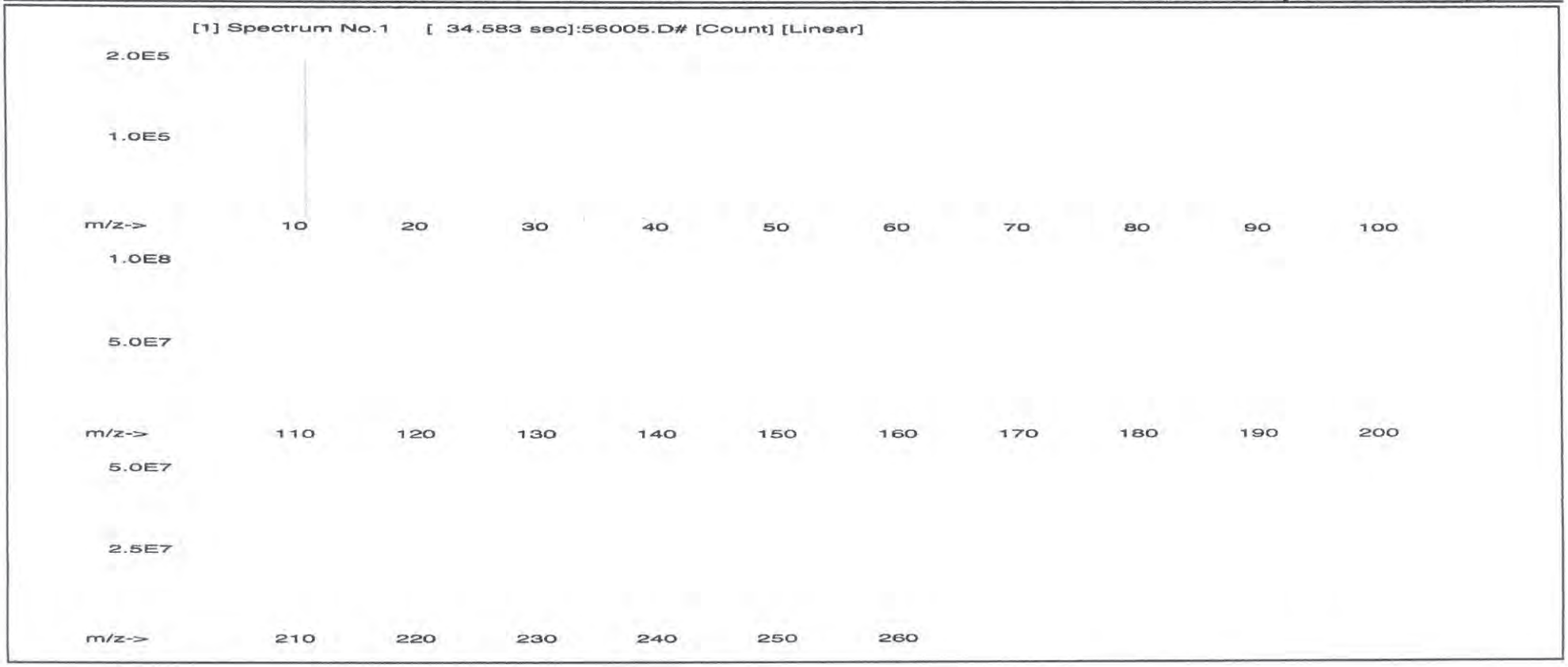
Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

066

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



T66
991

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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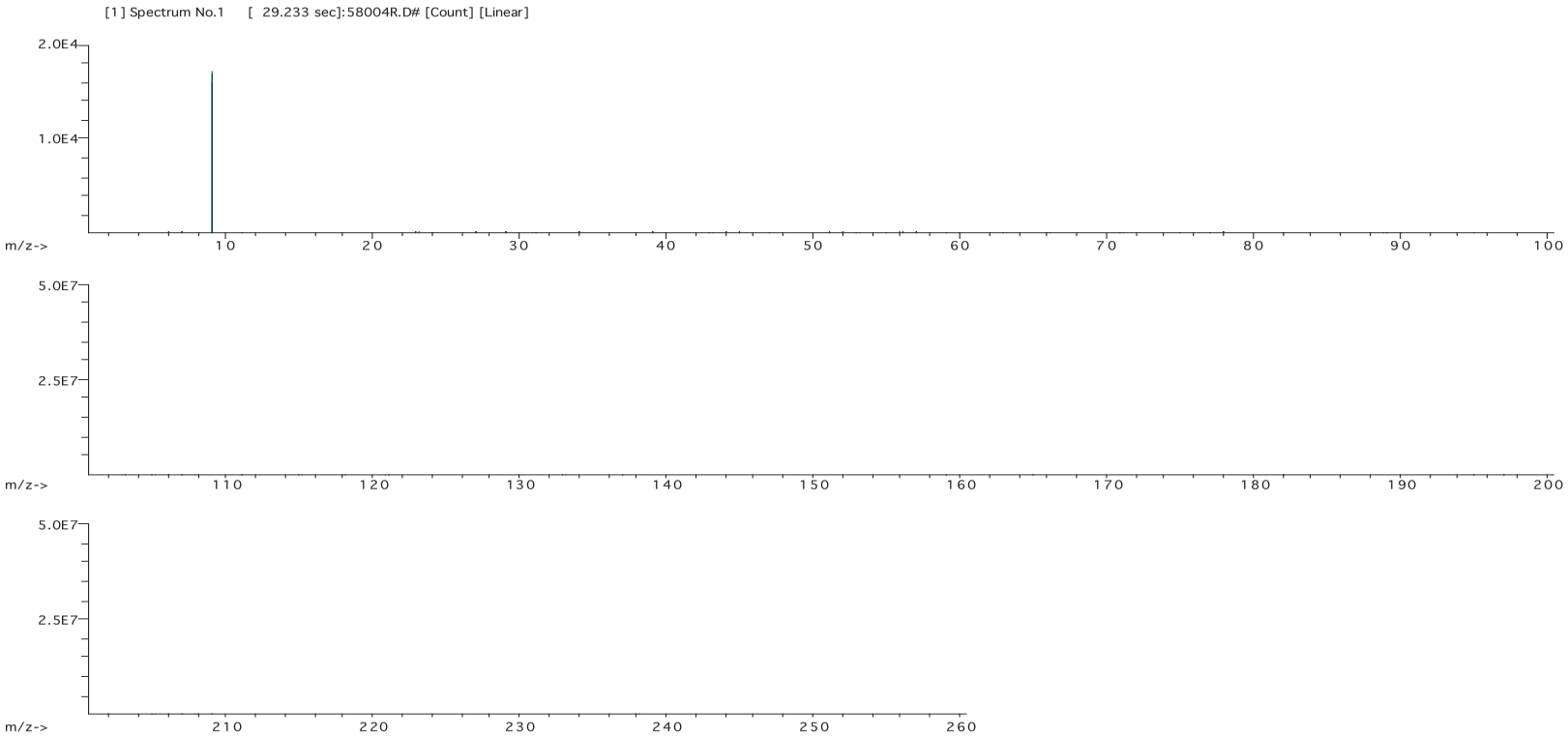
CERTIFIED WEIGHT REPORT:

992

				Lot #	**Solvent:**	
Part Number:	**57004**			19410105	Nitric Acid	
Lot Number:	**030221**					
Description:	**Beryllium (Be)**					
				2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	030224					
Recommended Storage:	Ambient (20 ºC)					
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	23060		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Beryllium acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



993

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57048**	20370011	Nitric Acid
Lot Number:	**072821**		
Description:	**Cadmium (Cd)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	072824		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

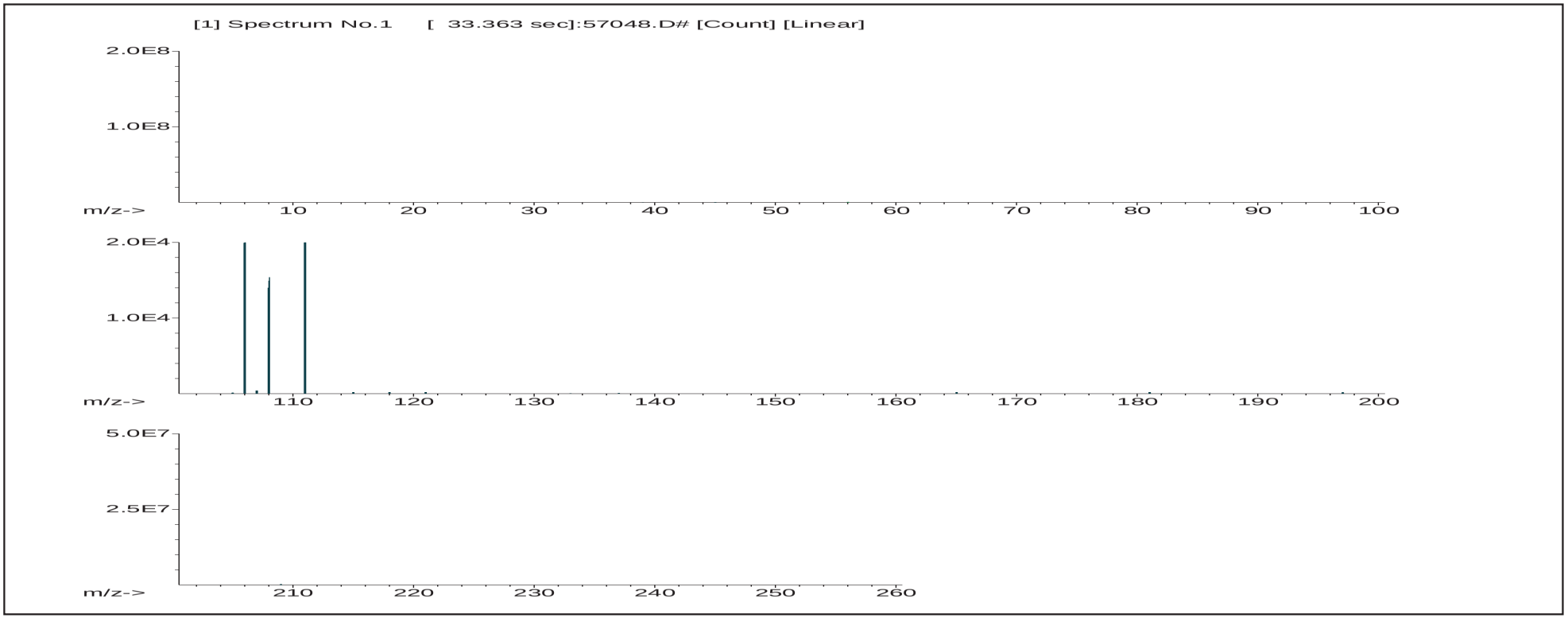
Giovanni Esposito

Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



995

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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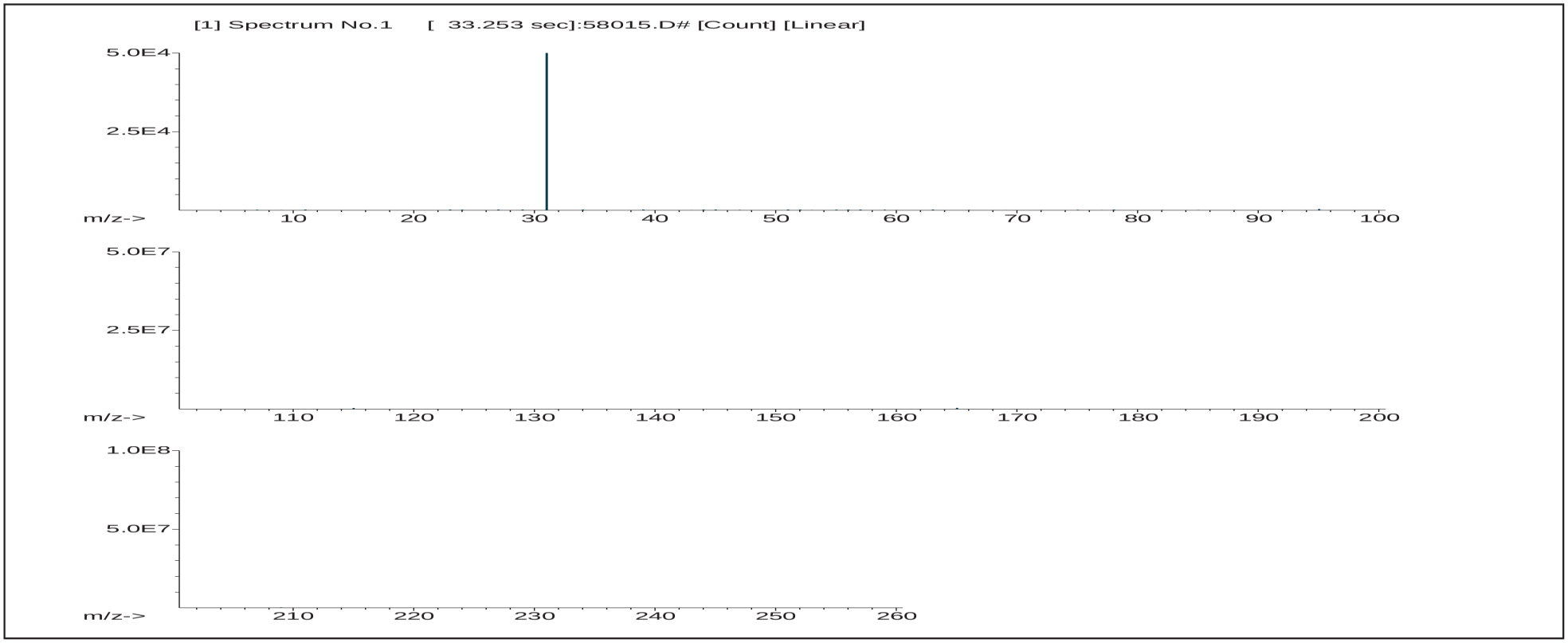
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57015**	20370011	Nitric Acid	
Lot Number:	**051121**			
Description:	**Phosphorous (P)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	051124			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	051121
Reviewed By:	Pedro L. Rentas	051121

966

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



997

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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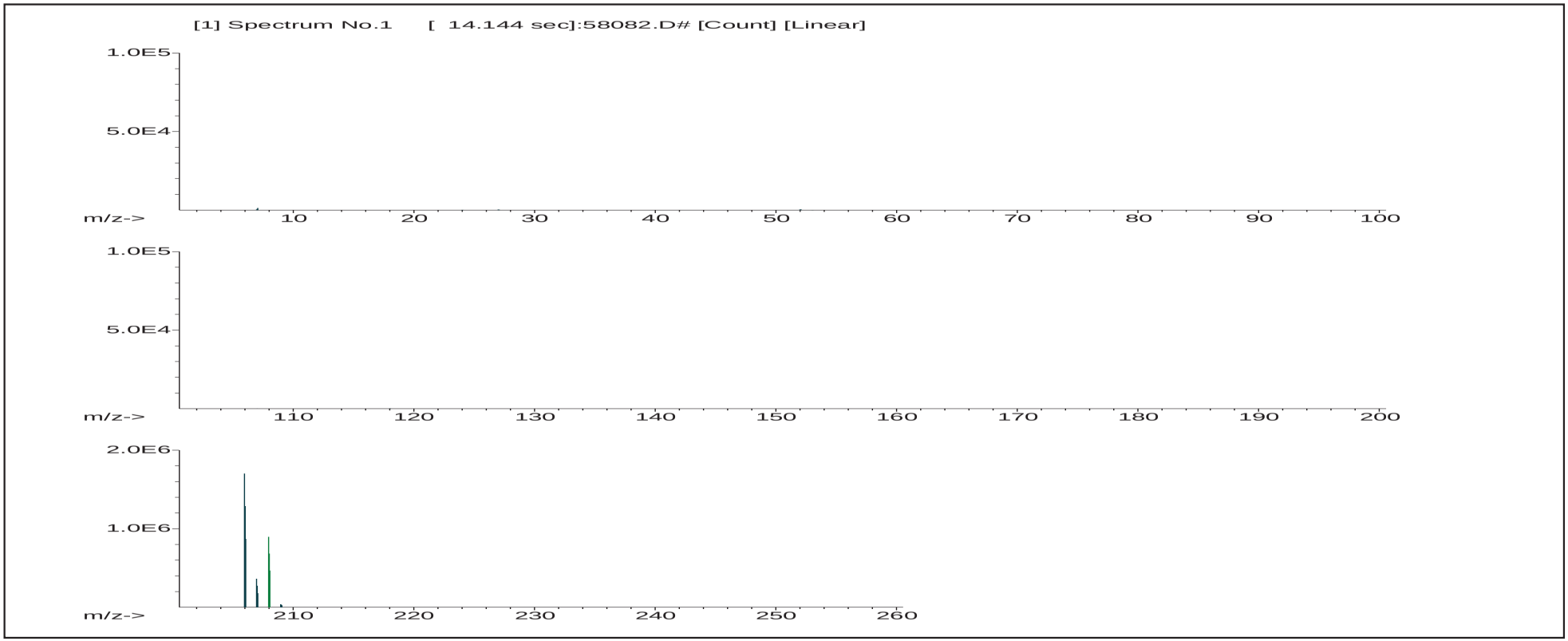
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57082**	20370011	Nitric Acid
Lot Number:	**062221**		
Description:	**Lead (Pb)**	2.0%	40.0 (mL) Nitric Acid
Expiration Date:	062224		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	062221
Reviewed By:	Pedro L. Rentas	062221

998

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



666

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

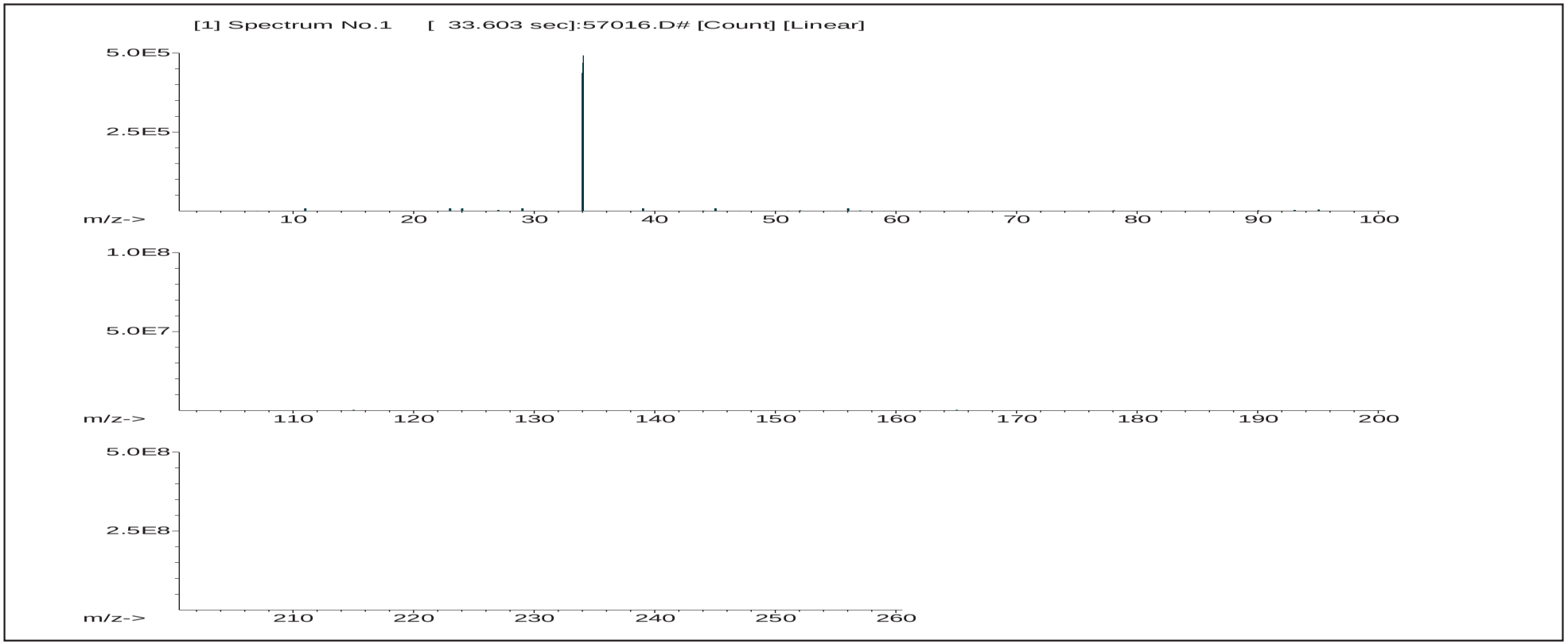
Part Number:	**57016**	**Lot #**	**Solvent:**
Lot Number:	**051721**	051721	ASTM Type 1 Water
Description:	**Sulfur (S)**		

Expiration Date: 051724
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

1000

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



1001

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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1002

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

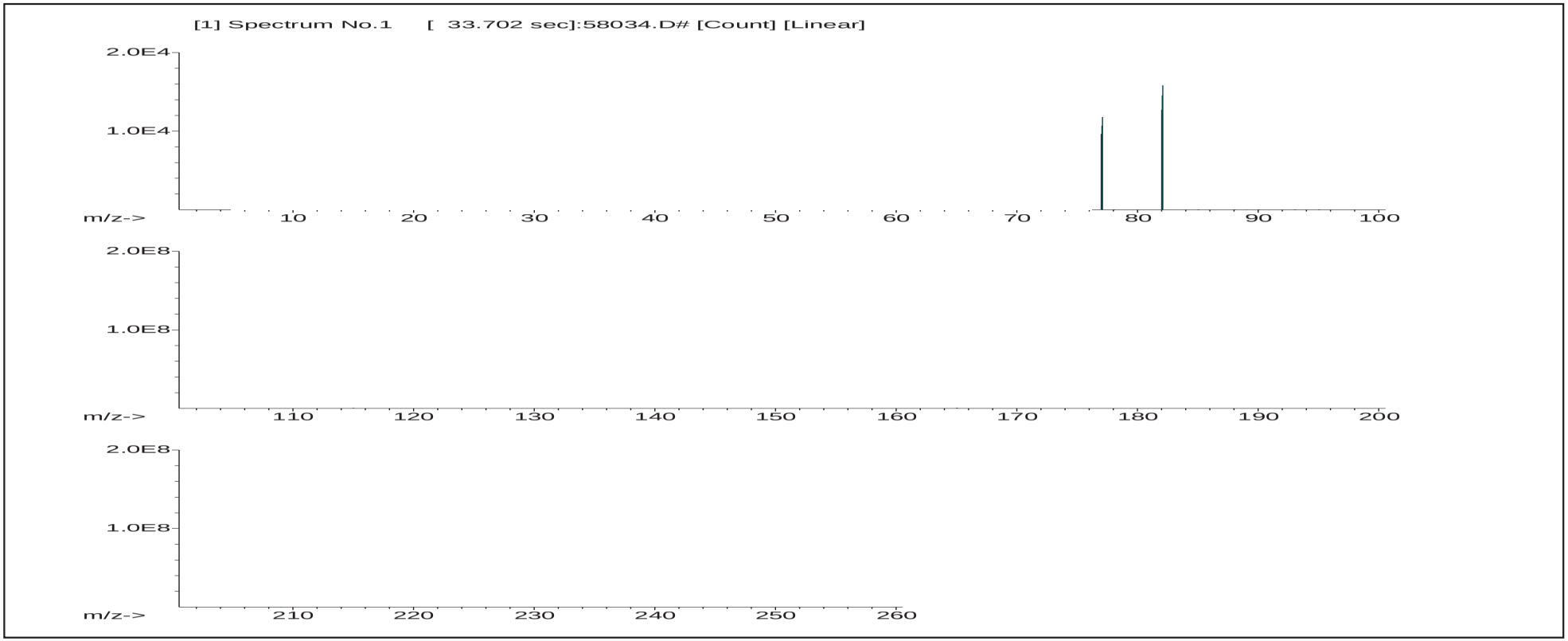
Giovanni Esposito

Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



1003

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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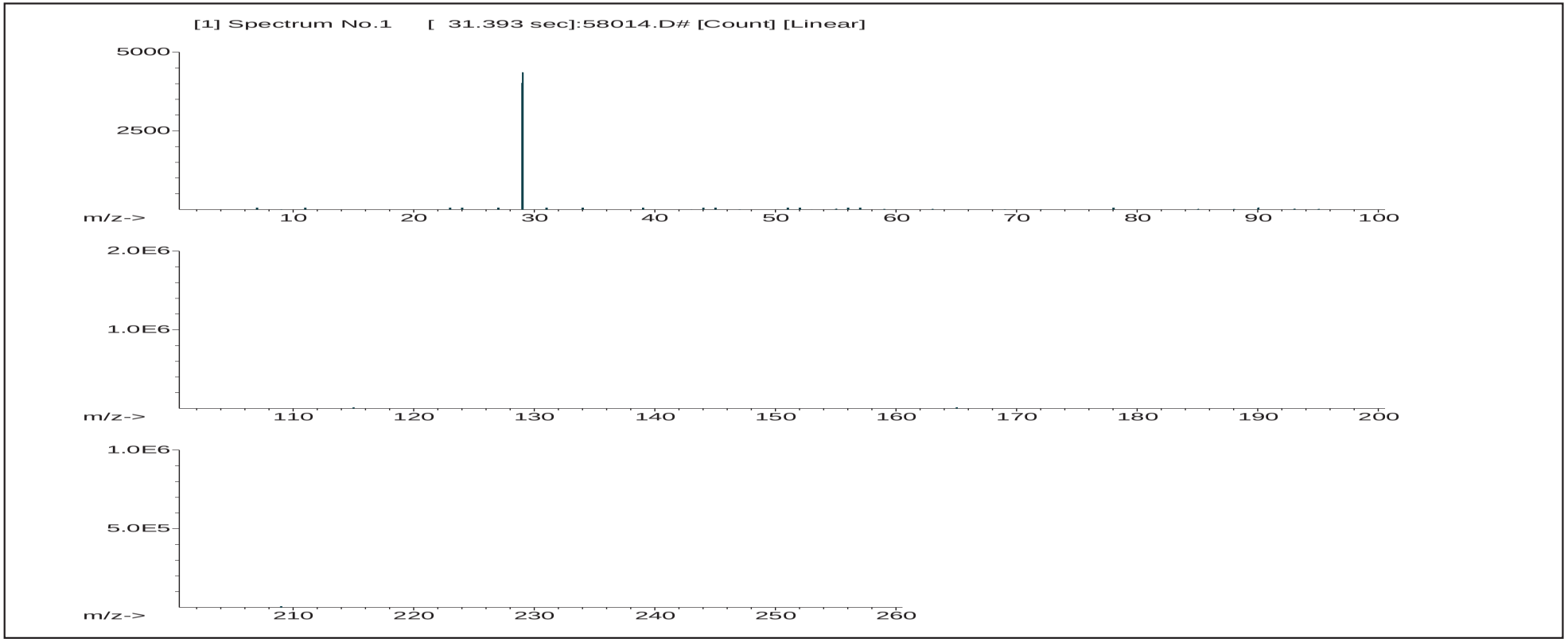
1004

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



1005

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57047**	20370011	Nitric Acid
Lot Number:	**072921**		
Description:	**Silver (Ag)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	072924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

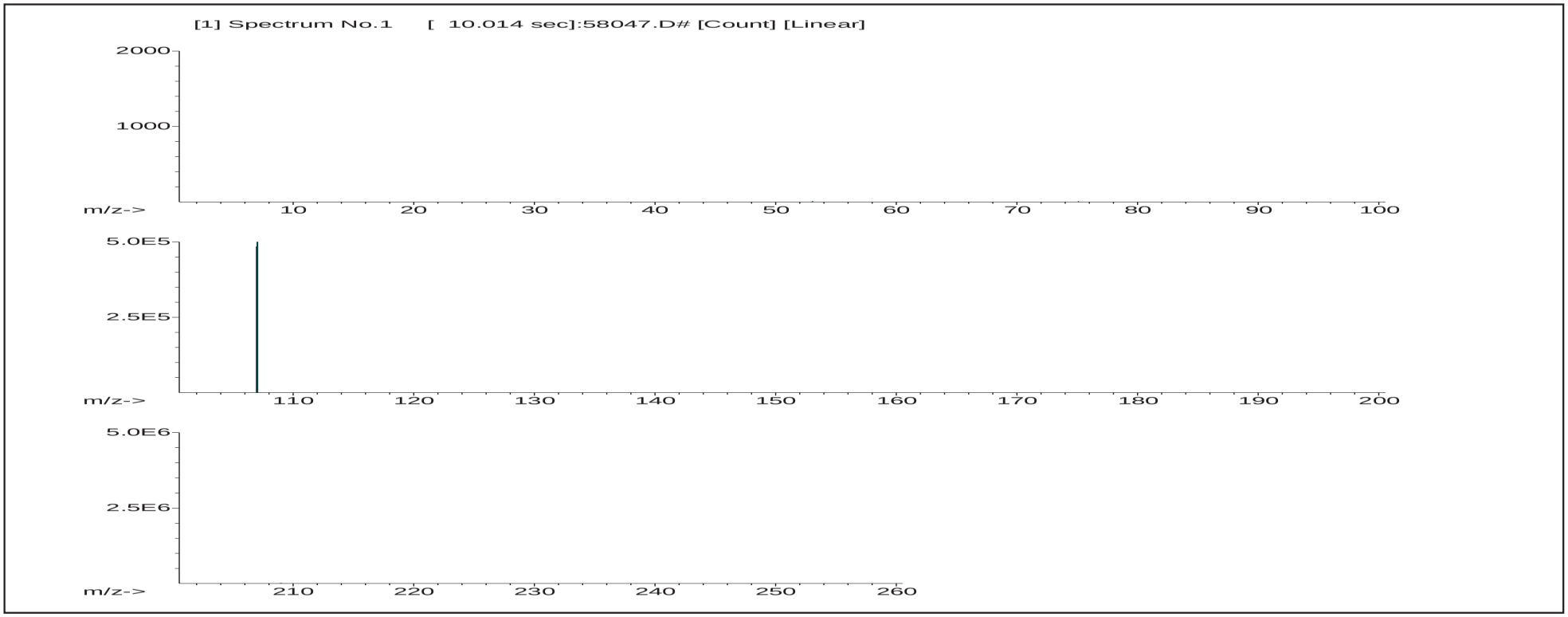
Giovanni Esposito

Formulated By:	Giovanni Esposito	072921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



1007

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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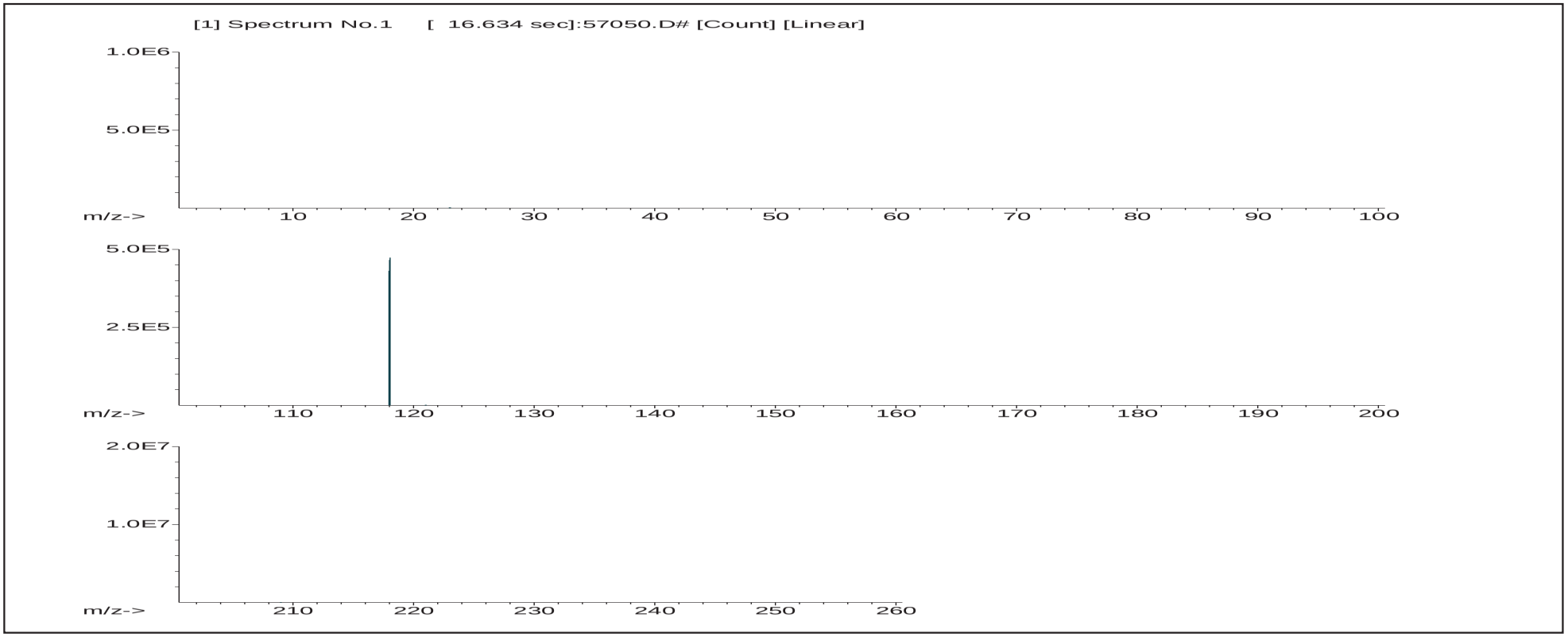
CERTIFIED WEIGHT REPORT:

				Lot #	**Solvent:**	
Part Number:	**57050**			19410105	Nitric Acid	
Lot Number:	**021121**			240241	Hydrochloric acid	
Description:	**Tin (Sn)**					
				2.0%	40.0	Nitric Acid
Expiration Date:	021124			6.0%	120.0	Hydrochloric acid
Recommended Storage:	Ambient (20 ºC)				(mL)	
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	23060		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):		1999.78	0.265	Flask Uncertainty		

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



1009

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

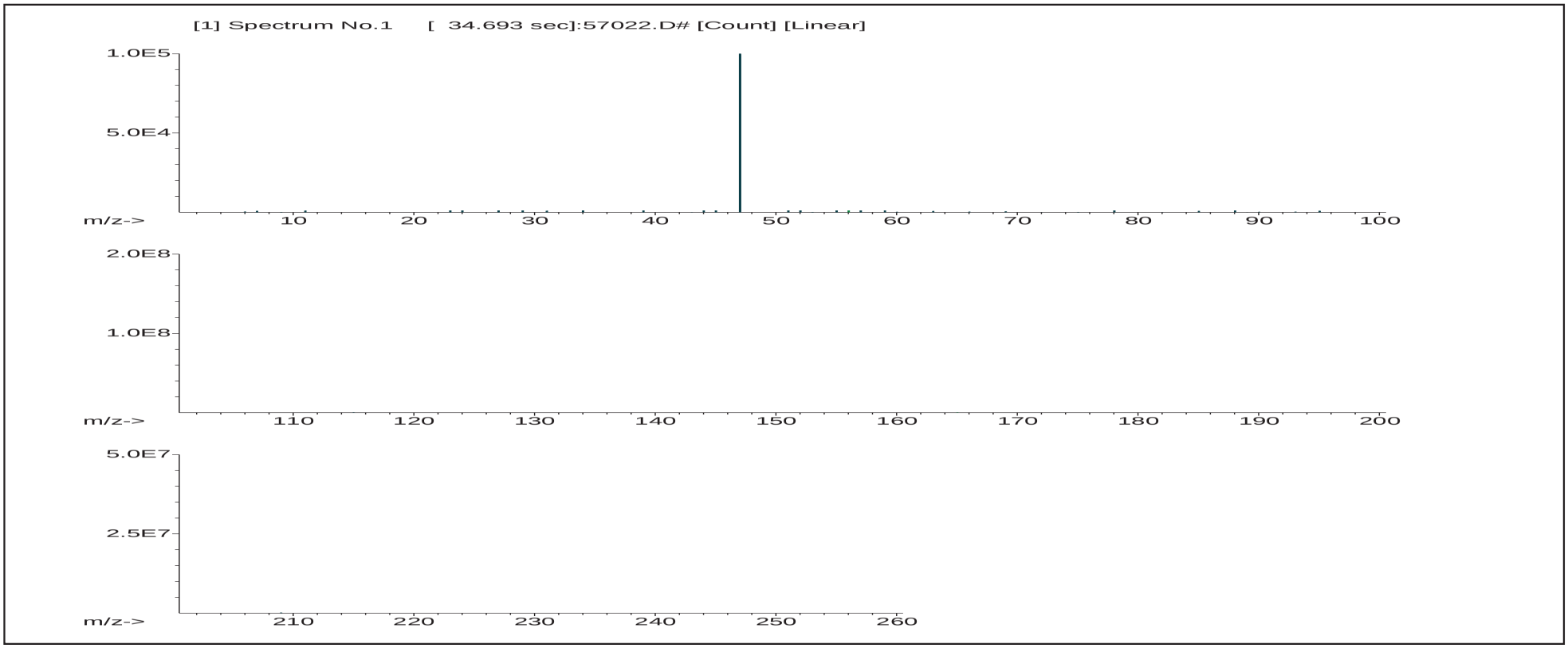
1010

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57022**	20370011	Nitric Acid
Lot Number:	**070721**		
Description:	**Titanium (Ti)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	070724		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



1011

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1012

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57081**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Thallium (Tl)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

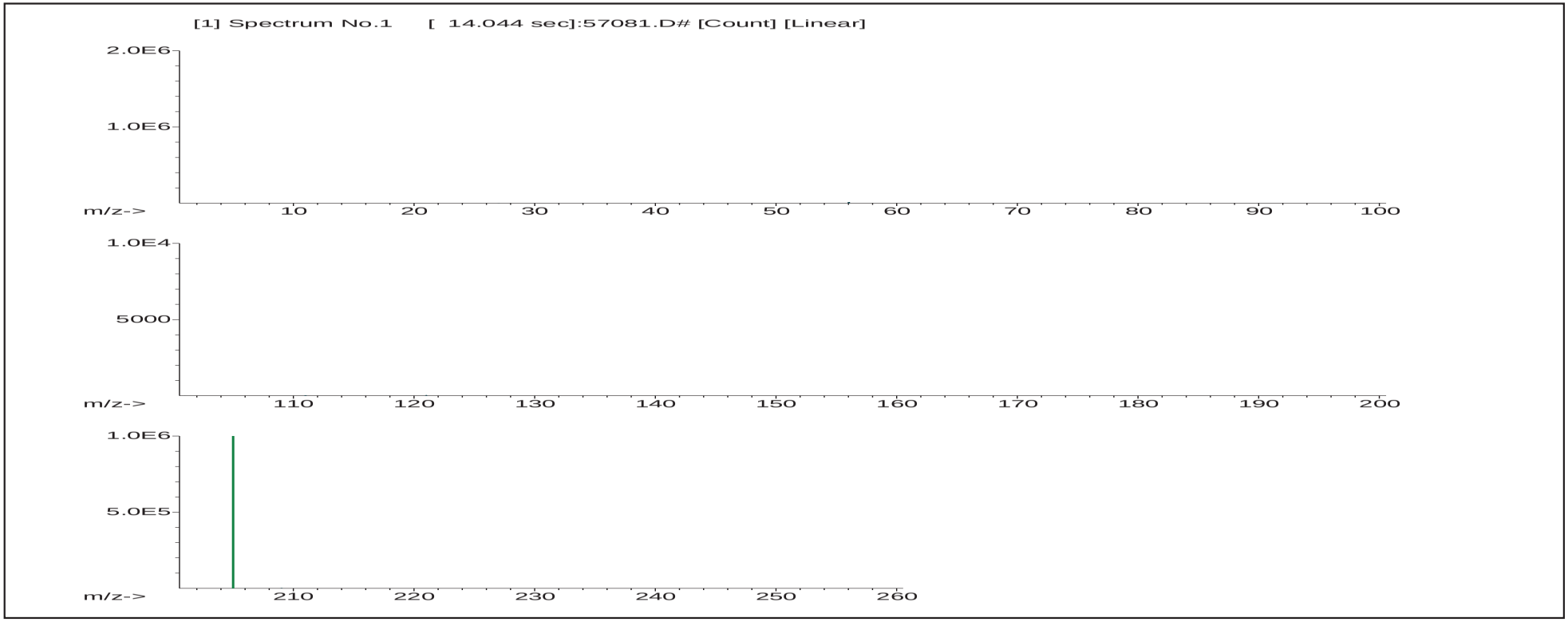
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



1013

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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1014

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58030**	20370011	Nitric Acid
Lot Number:	**031921**		
Description:	**Zinc (Zn)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

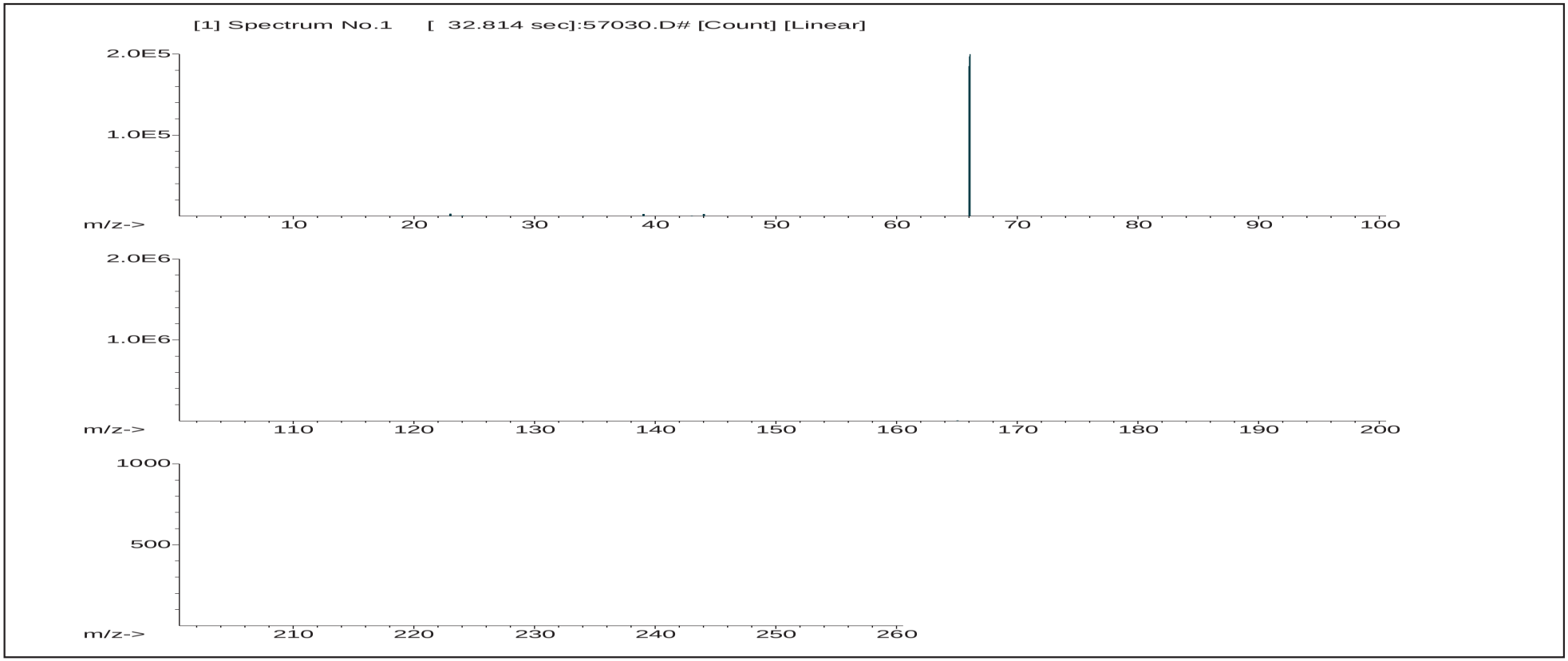
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



1015

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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CERTIFIED WEIGHT REPORT:

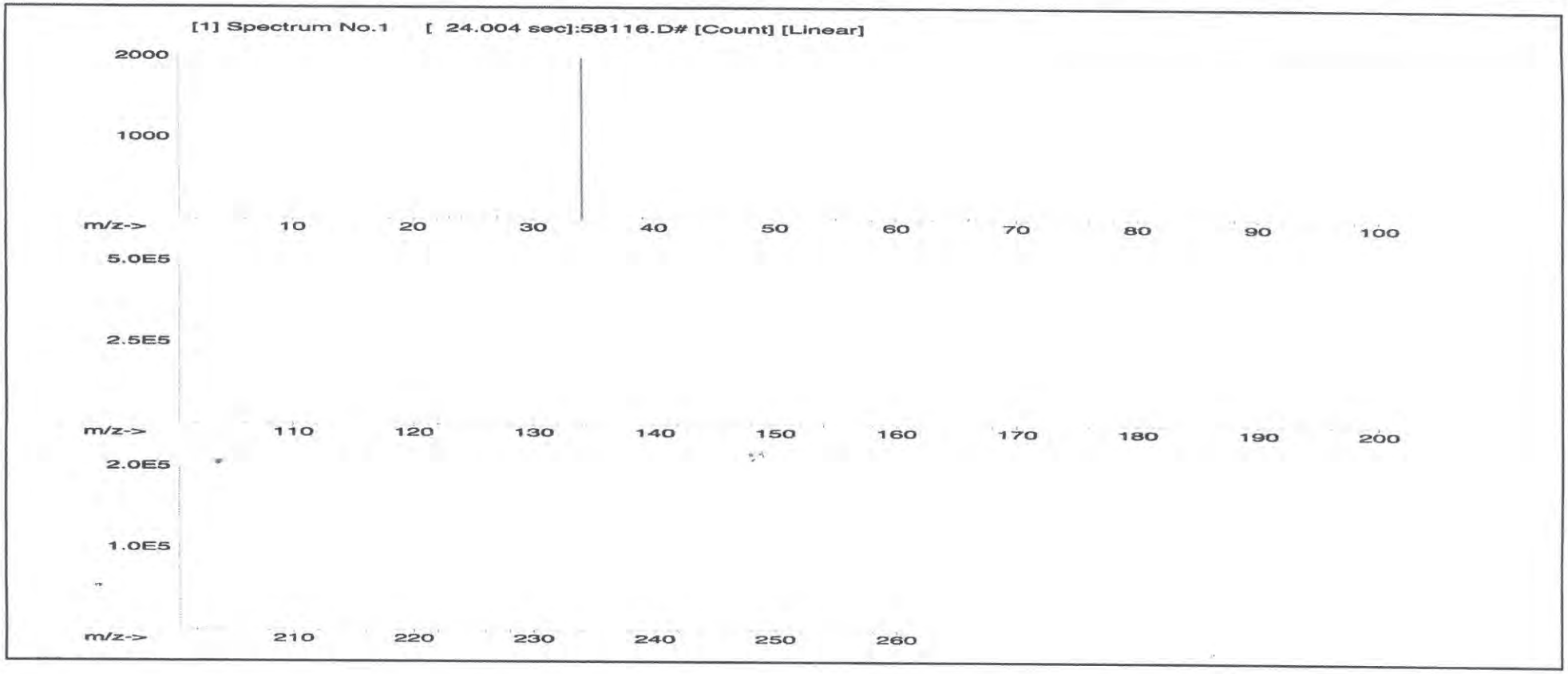
Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



1016

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1017

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BA M5020 R: 12/09/21

1018

CERTIFIED WEIGHT REPORT:

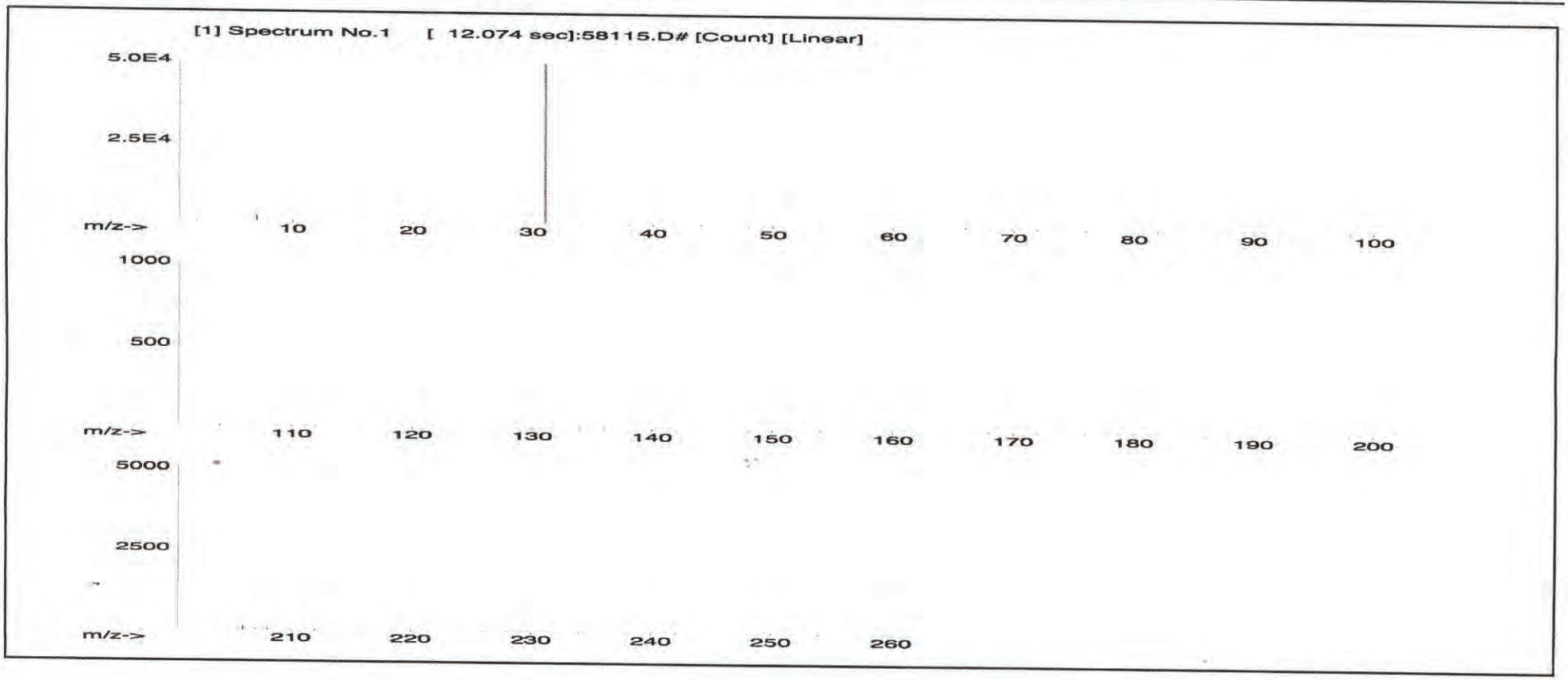
Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



1019

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 6/2/22

CERTIFIED WEIGHT REPORT:

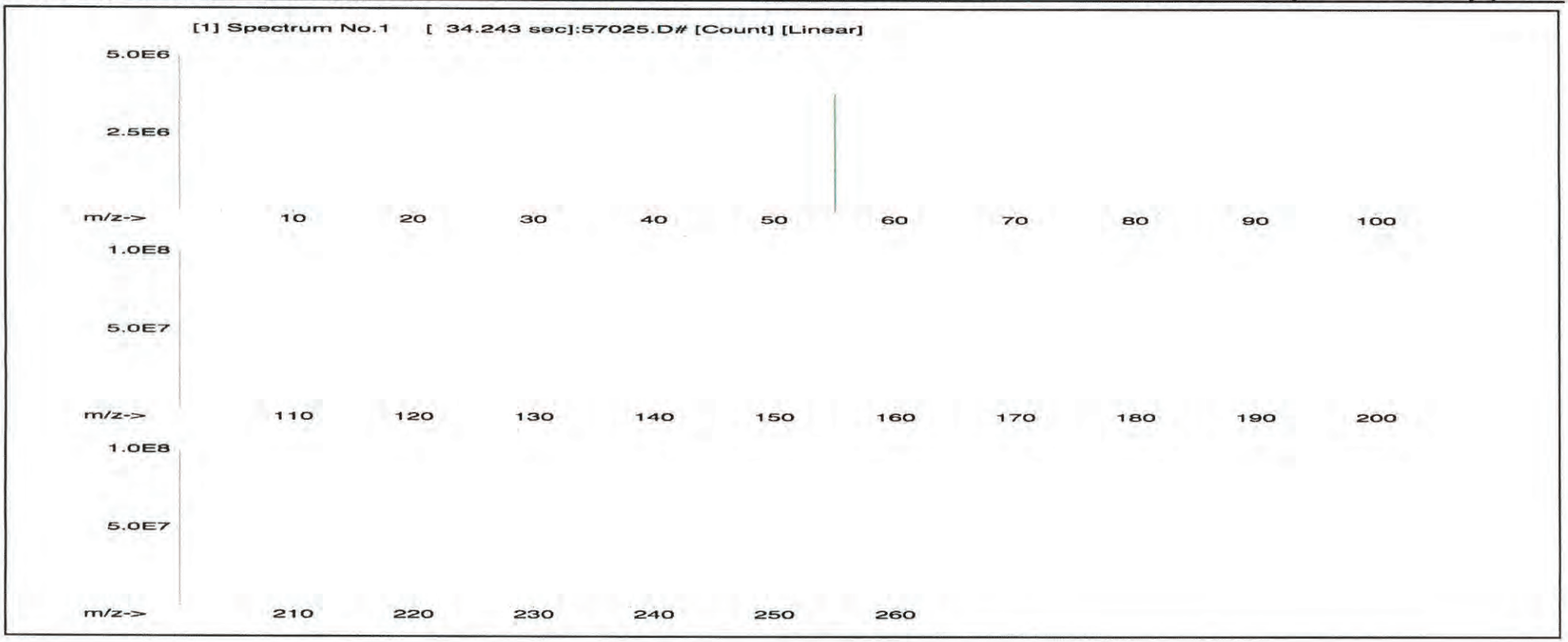
M5184

		Lot #	Solvent:
Part Number:	**58025**	20510011	Nitric Acid
Lot Number:	**060122**		
Description:	**Manganese (Mn)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	060125		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058 Flask Uncertainty	

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

1020

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



1021

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1022

CERTIFIED WEIGHT REPORT:

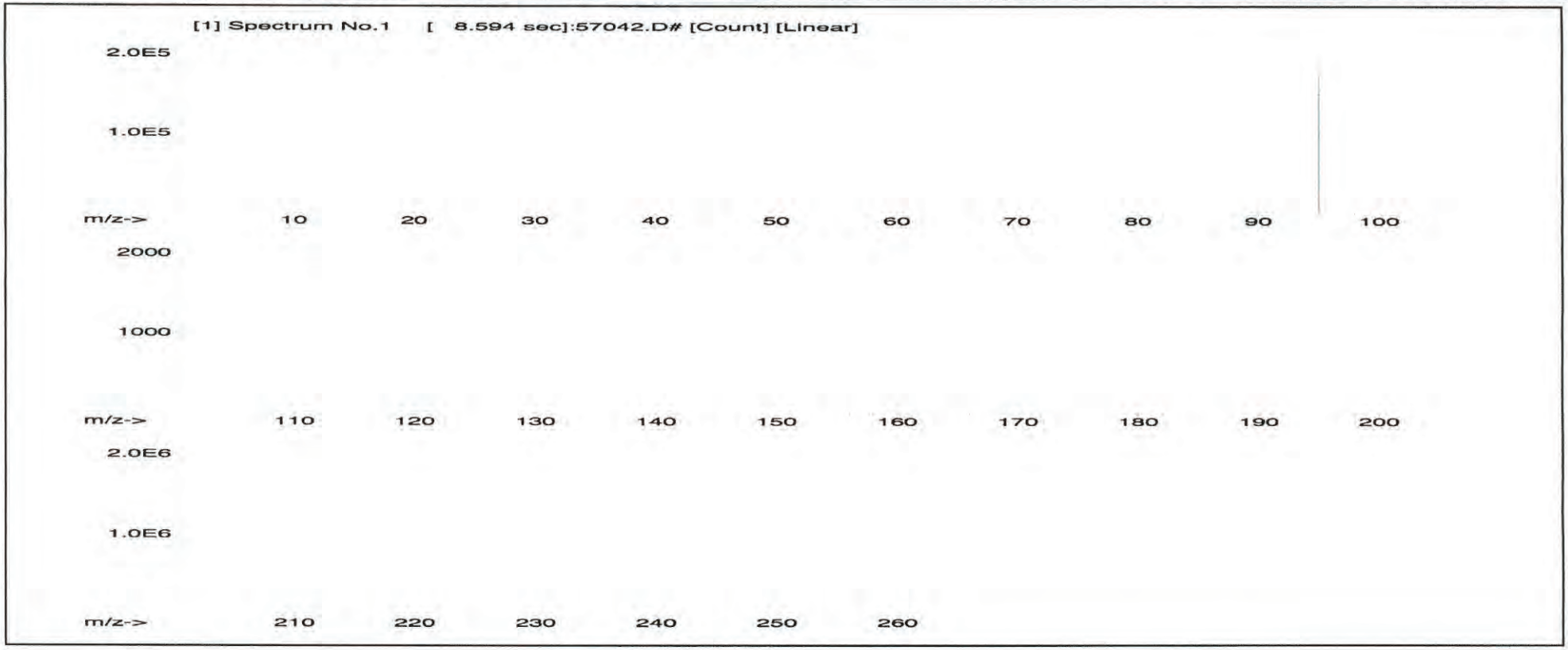
Part Number: **57042**
Lot Number: **051722**
Description: **Molybdenum (Mo)**

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



1023

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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1024

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 082021
Description: Calcium (Ca)

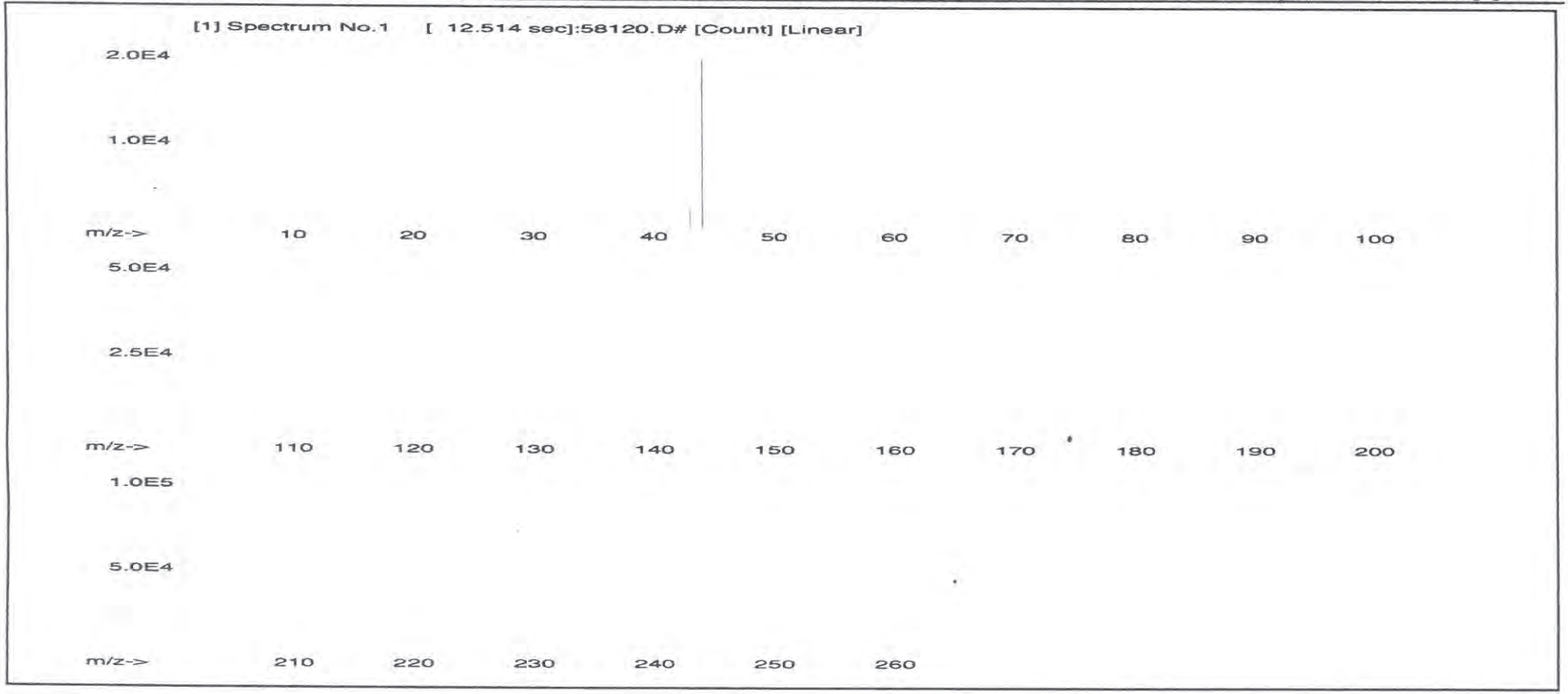
Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.4 0.058 Flask Uncertainty

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	082021
Reviewed By:	Pedro L. Rentas	082021

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1025

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1026

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #	
Solvent:	20370011	Nitric Acid
2%	60.0 (mL)	Nitric Acid
5E-05	Balance Uncertainty	
0.058	Flask Uncertainty	

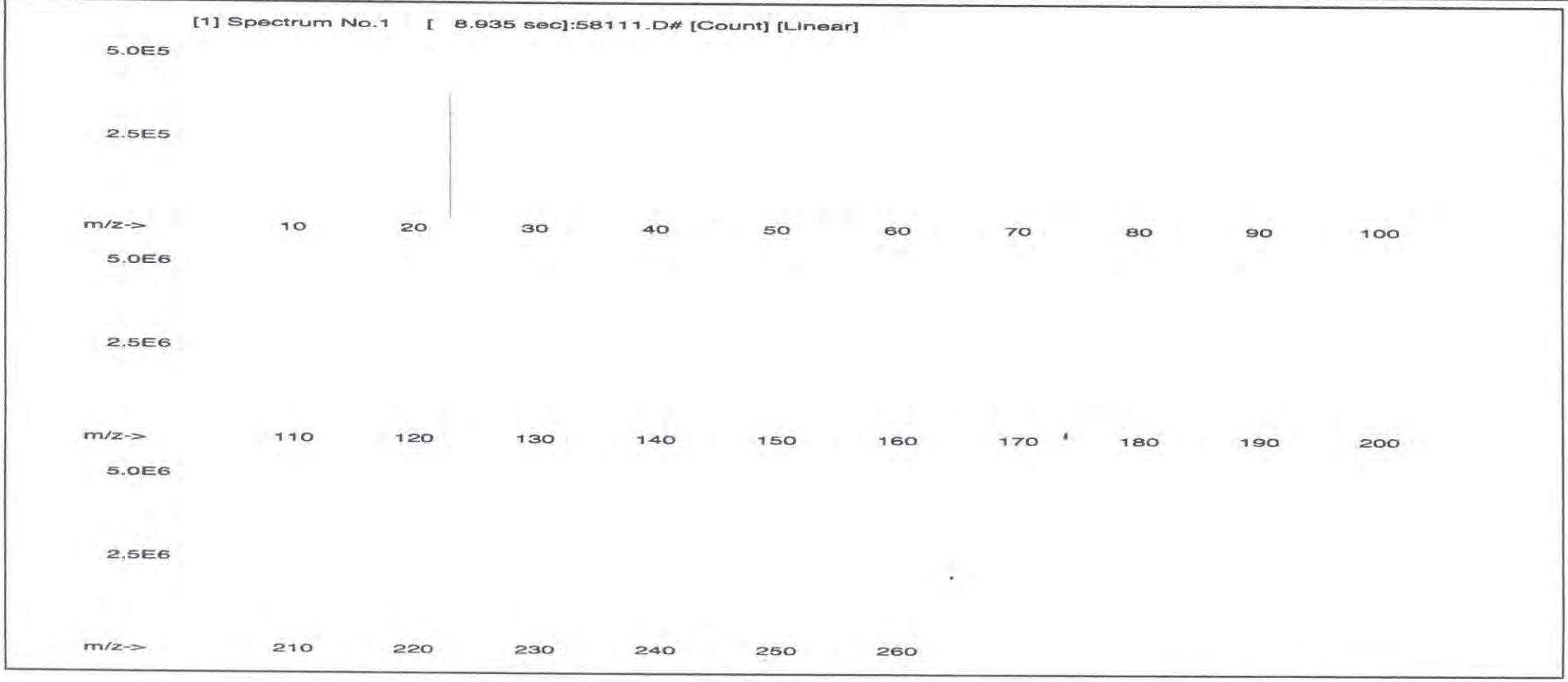
Giovanni Esposito

Formulated By: Giovanni Esposito 092121

Pedro Rentas

Reviewed By: Pedro L. Rentas 092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



1027

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

Part Number: **57119**
Lot Number: **062321**
Description: **Potassium (K)**

Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

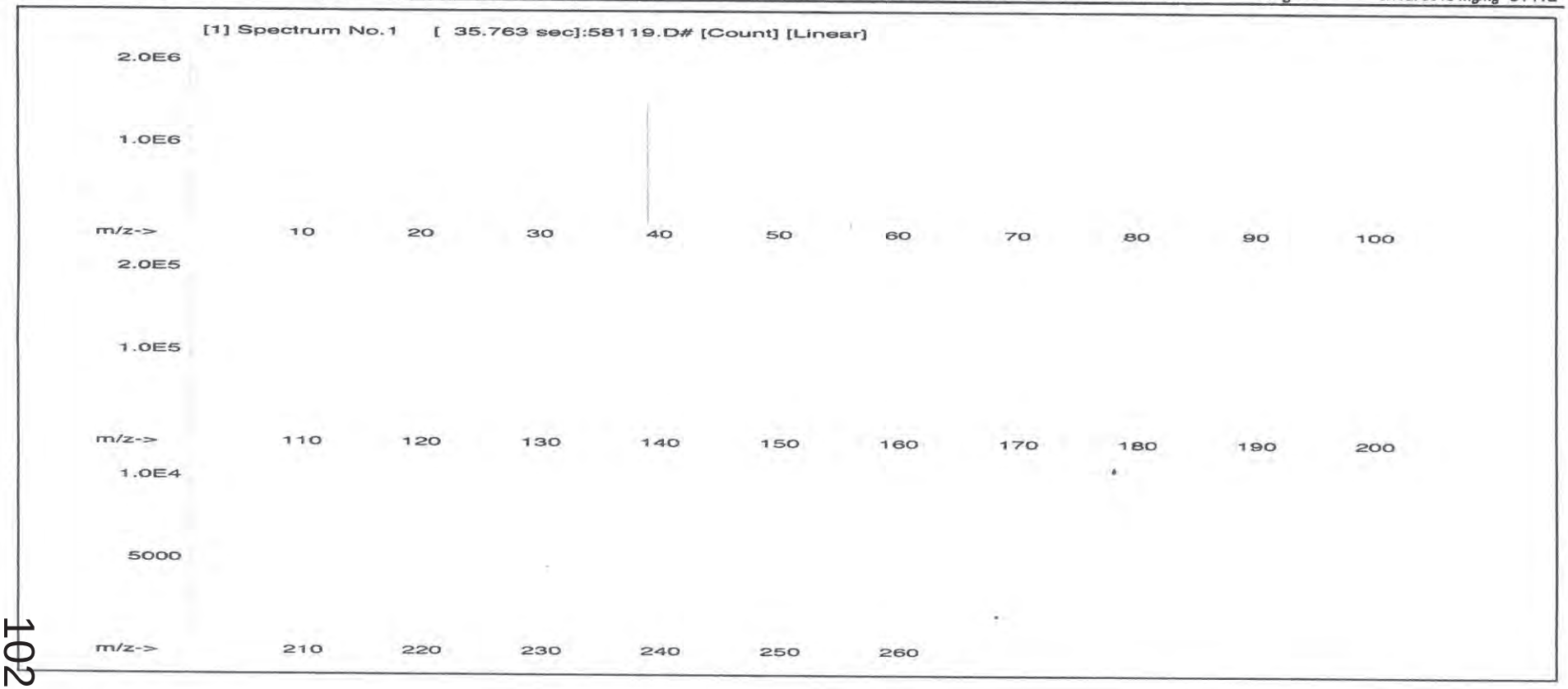
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



1028

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1029

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1030

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57051**	20370011	Nitric Acid
Lot Number:	**101521**		
Description:	**Antimony (Sb)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	101524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty

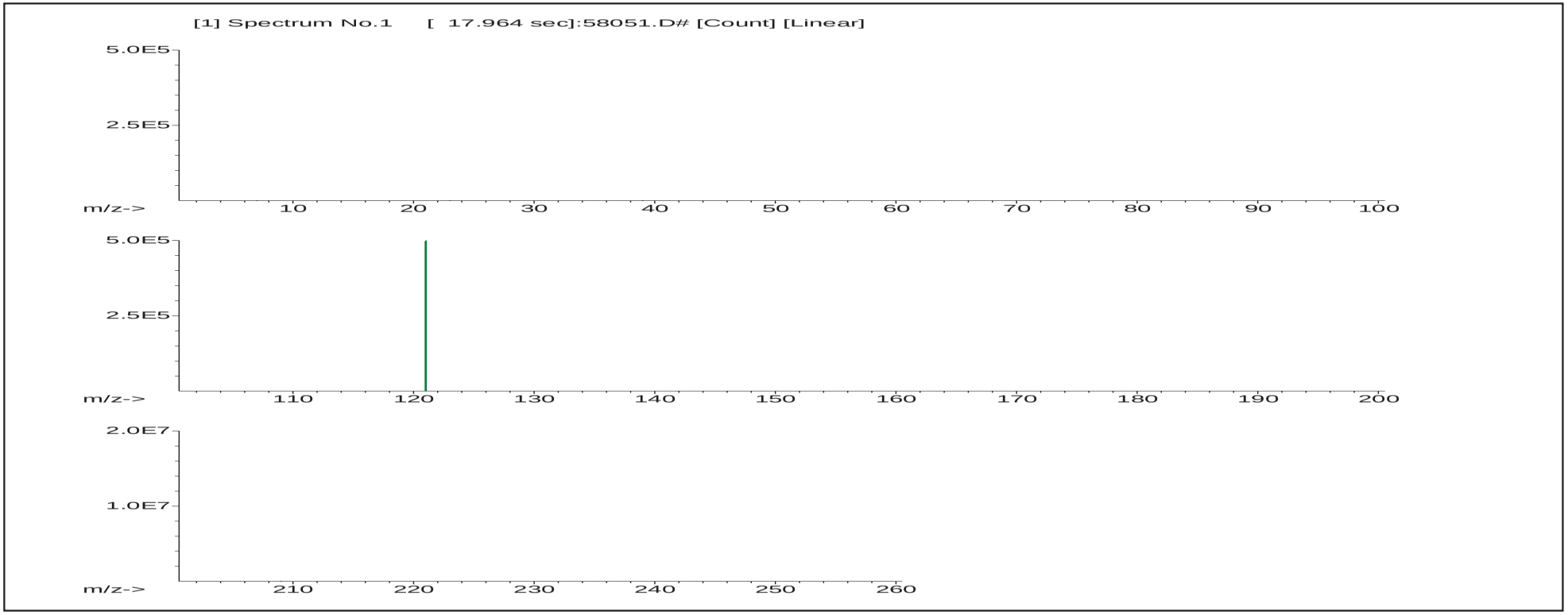
Giovanni Esposito

Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



1031

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5227 R: 10/18/2021

Absolute Standards, Inc.
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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

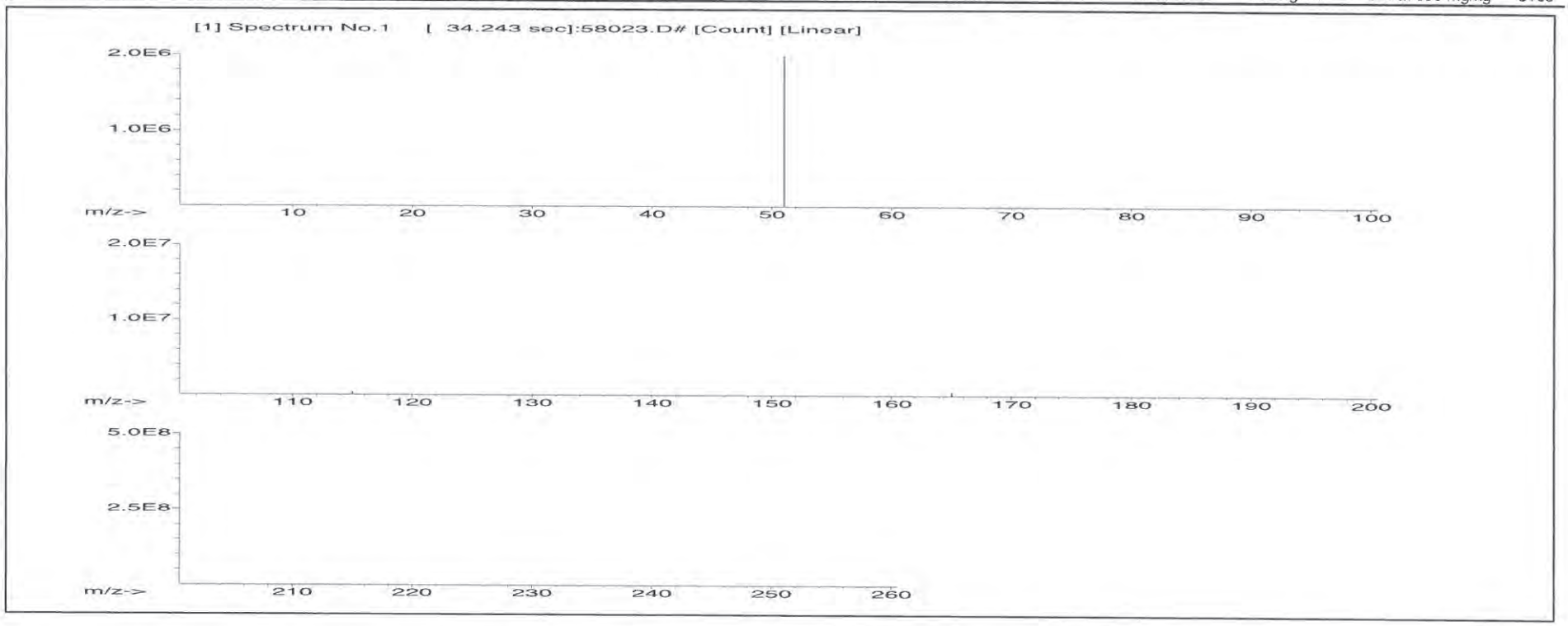
		Lot #	Solvent:
Part Number:	**57023**	20370011	Nitric Acid
Lot Number:	**100121**		
Description:	**Vanadium (V)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	100124		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	100121
Reviewed By:	Pedro L. Rentas	100121

Pedro Rentas

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



1032

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1033

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M5229 R: 07/05/22 (BP)

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1034

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57092**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Uranium (U)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

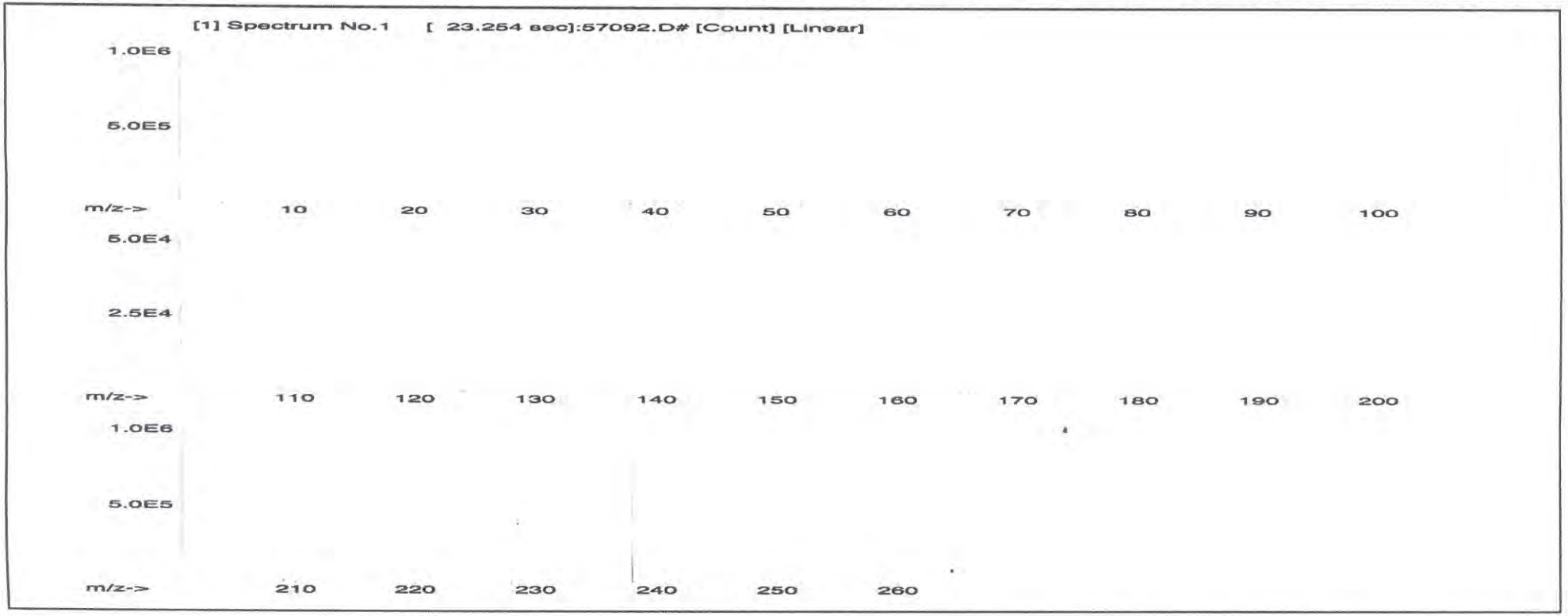
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	**2.1**	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



1035

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5230 R 07/05/22 BH

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1036

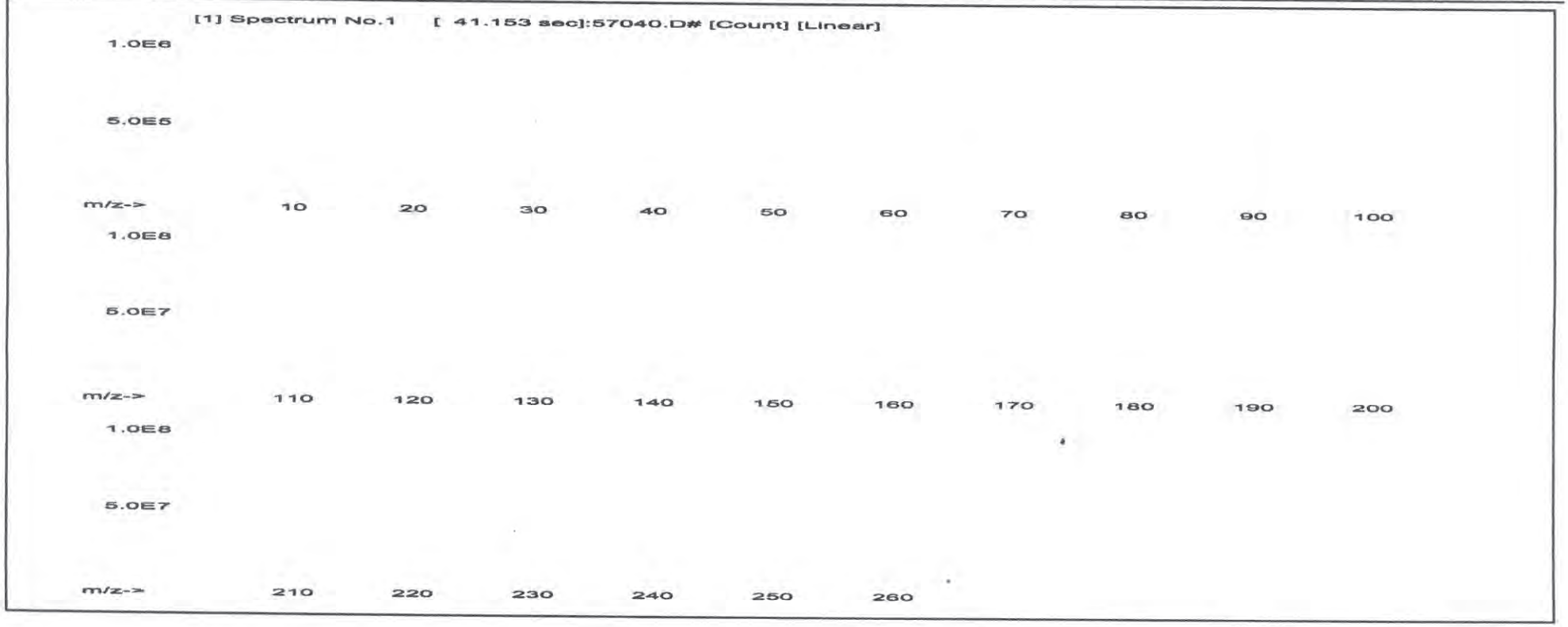
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57040**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Zirconium (Zr)**	2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	300.0	0.084	1000	10000.3	**1000.0**	**2.1**	13520-92-8	NA	NA	NA



10037

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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INORGANIC VENTURES
306 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

R: 7/6/22 M5231

tel: 800.669.6799 / 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	R2-MEB695520
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Bismuth, Cobalt, Lithium, Lead, Beryllium, Cerium, Indium, Nickel, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.05 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.04 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.00 ± 0.04 µg/mL
Nickel, Ni	10.00 ± 0.04 µg/mL	Uranium, U	10.00 ± 0.05 µg/mL

Density: 1.023 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	991212
Bi	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 04, 2024

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Wednesday, Oct 14, 2020 by utruong. Revision was made for the following reason: Added missing isotopic abundance for Uranium..

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

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www.absolutestandards.com

M5289 R: 07/12/22 (B4)

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1042

CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

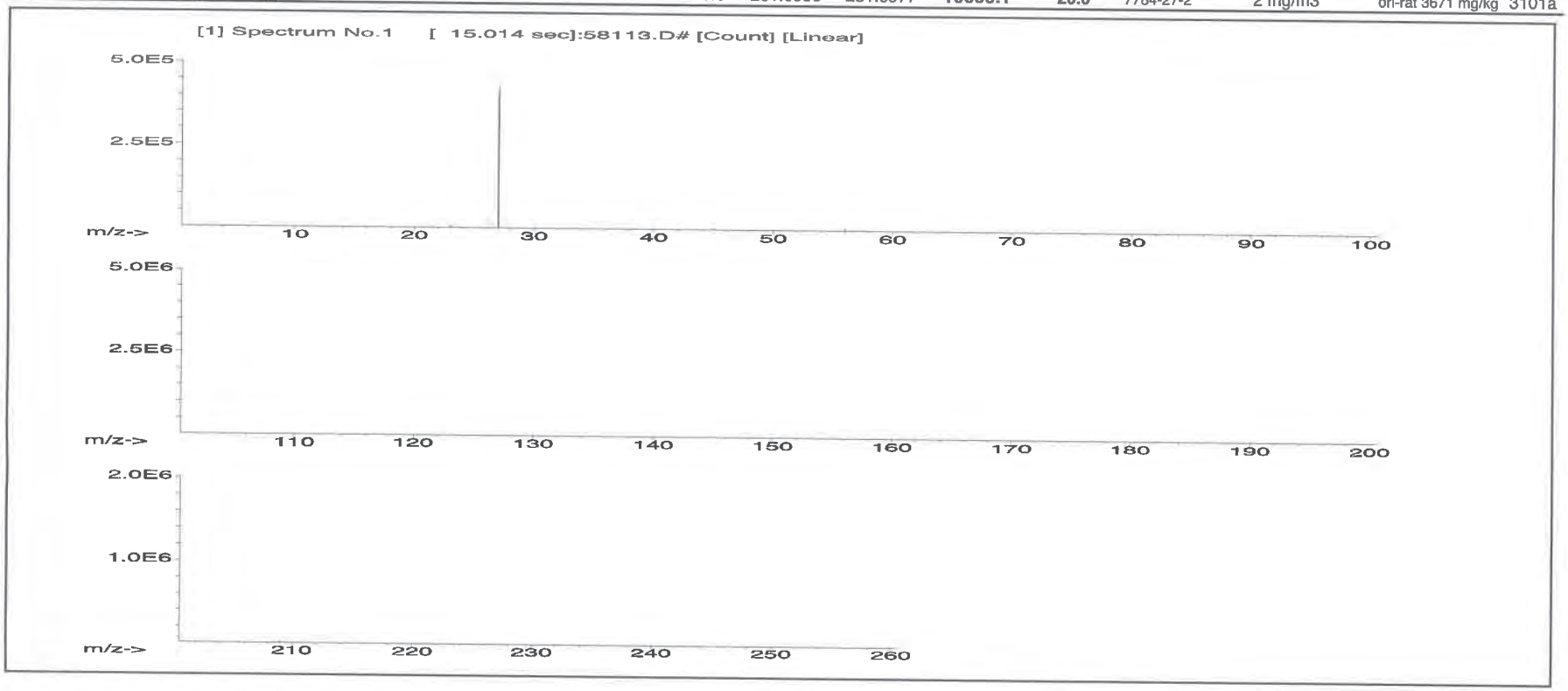
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #	
Solvent:	20370011	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Formulated By: Lawrence Barry 070622

Reviewed By: Pedro L. Rentas 070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



1043

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58126**
Lot Number: **020422** M5298
Description: **Iron (Fe)**

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB

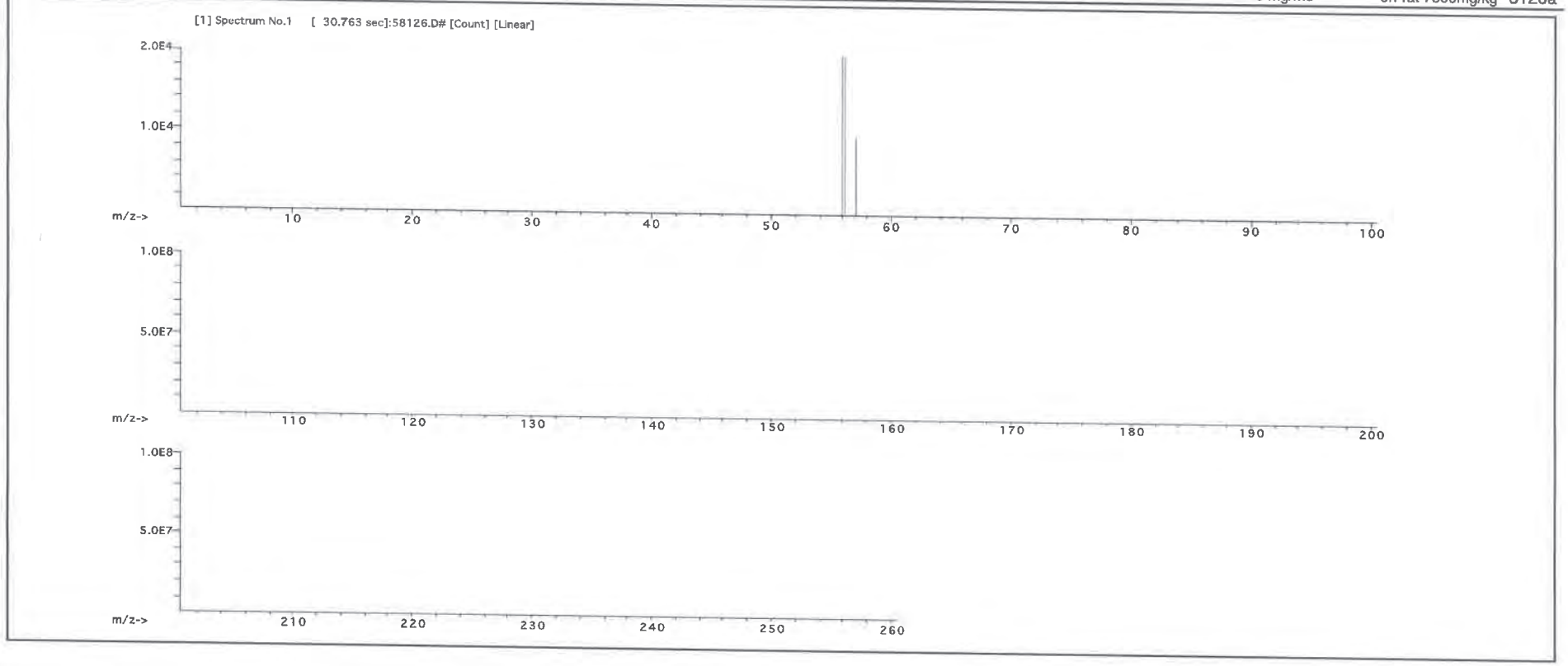
	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



1046

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1047

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1052

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

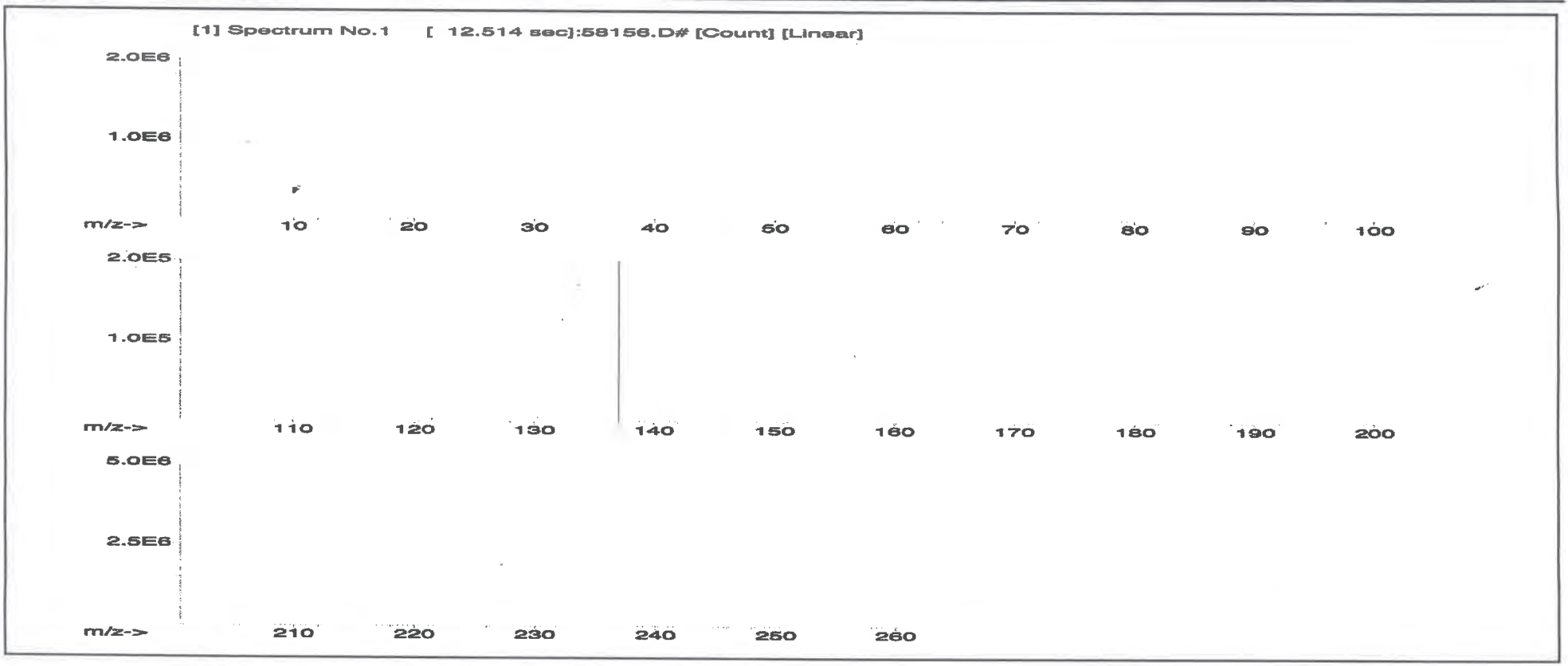
Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

	Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1053

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M5448
R: 04/01/22

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea: Bismuth, Indium, Rhodium, Terbium, Holmium, 6-Lithium, Scandium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael J. Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/14/23 M5468

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1061

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 120922
Description: Magnesium (Mg)

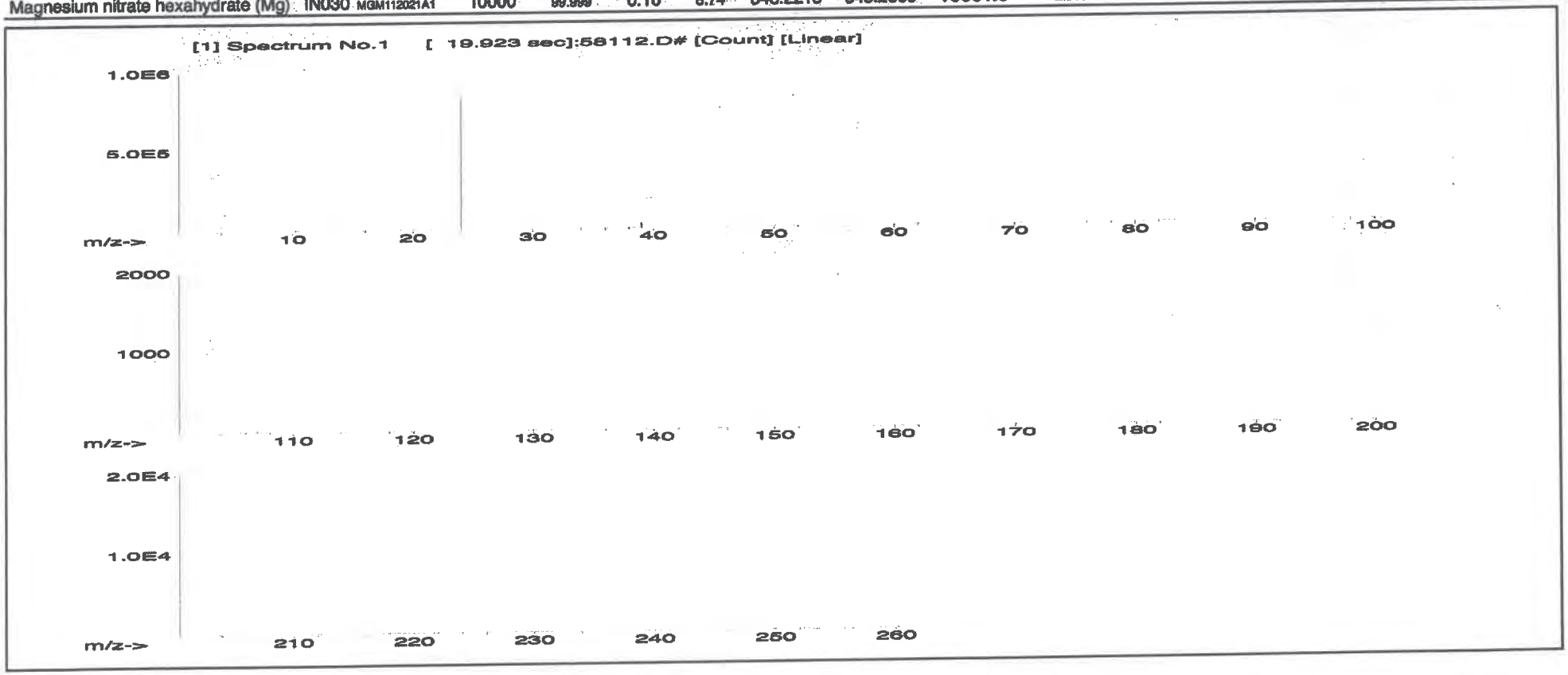
Expiration Date: 120925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid

Giovanni Esposito
Formulated By: Giovanni Esposito 120922

Pedro Rentas
Reviewed By: Pedro L. Rentas 120922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1062

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

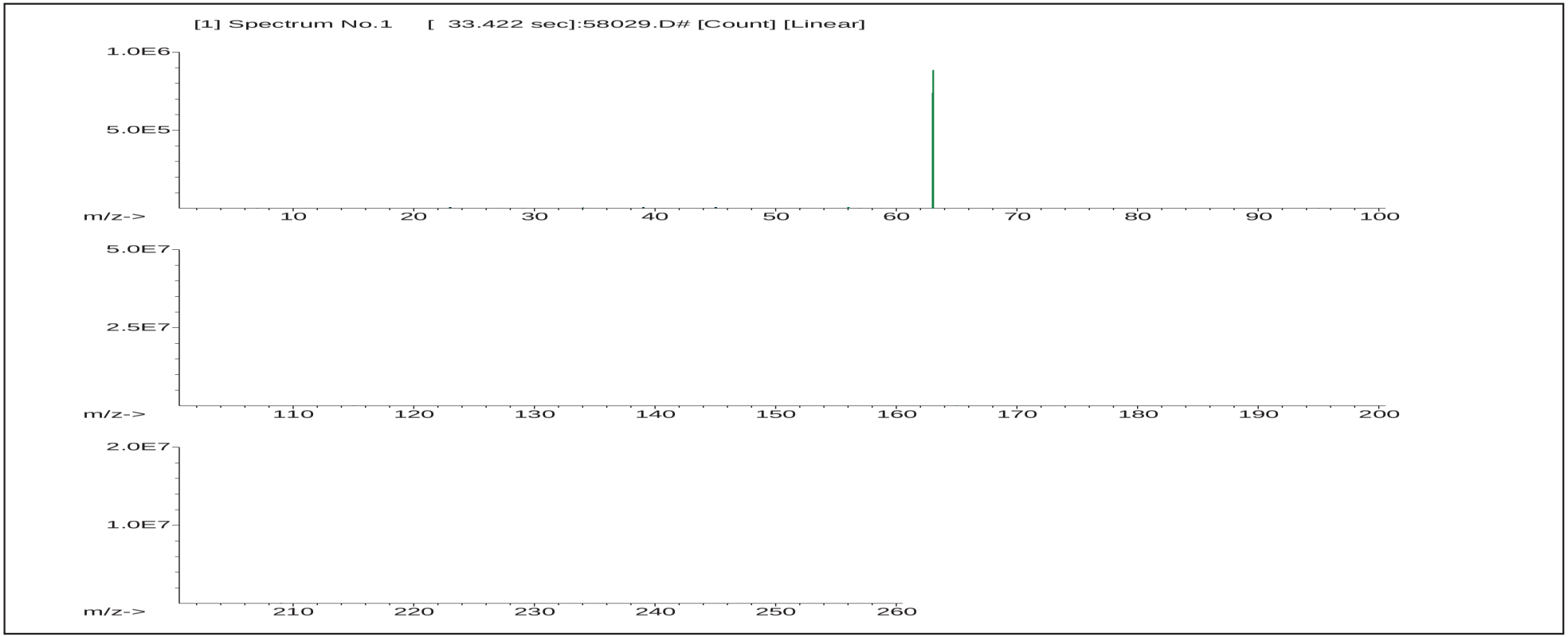
1063

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58029**	20510011	Nitric Acid
Lot Number:	**102622**		
Description:	**Copper (Cu)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	102625		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Eli Aliaga	102622
Reviewed By:	Pedro L. Rentas	102622

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



1064

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5555 M5556 M5557
M5558

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium,
	1 000 µg/mL ea: Iron,
	500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,
	250 µg/mL ea: Copper,
	200 µg/mL ea: Chromium,
	50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method I with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Nitric Acid
CMOS

M5575 M5576 M5577
M5578 M5579 M5580

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

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Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

RE 03/16/23, M5469, M5470, M5471, M5472

1090

CERTIFIED WEIGHT REPORT:

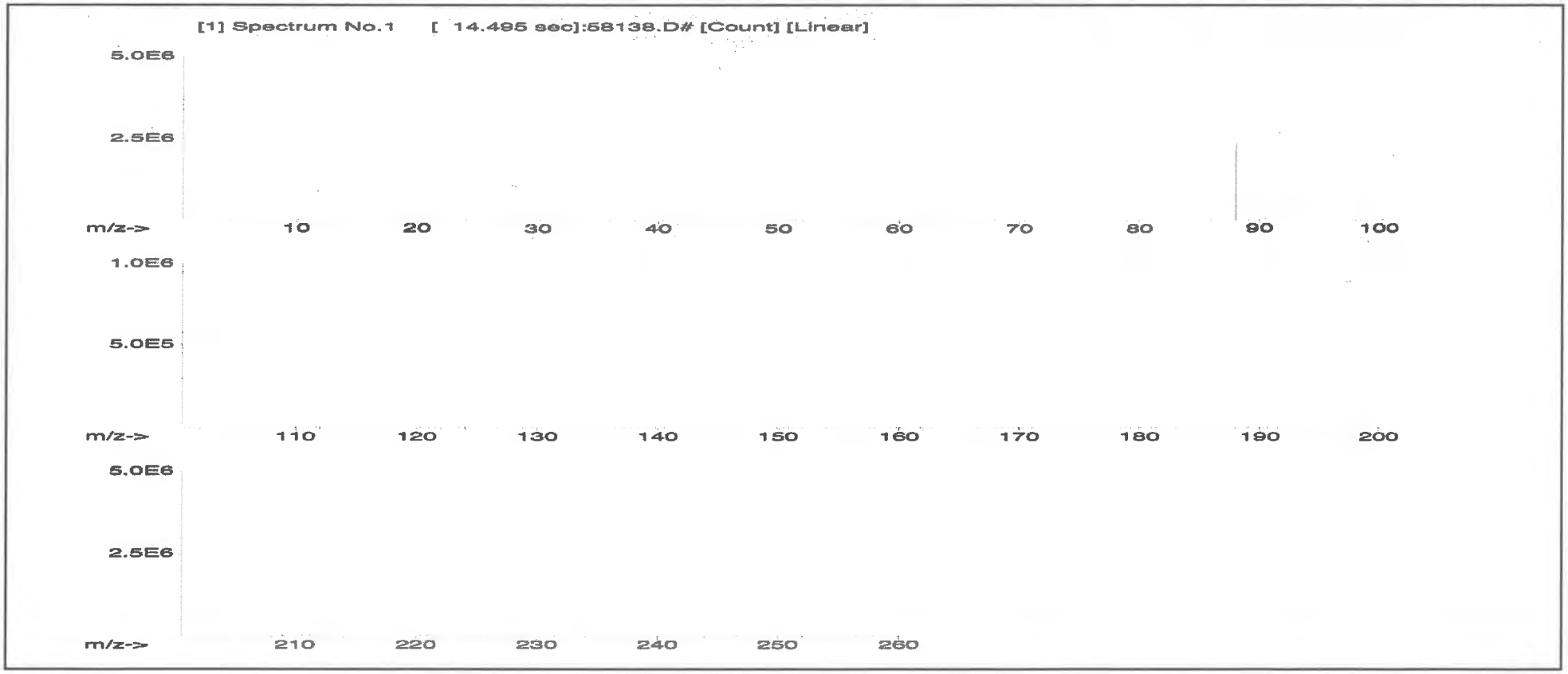
Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



1091

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1092

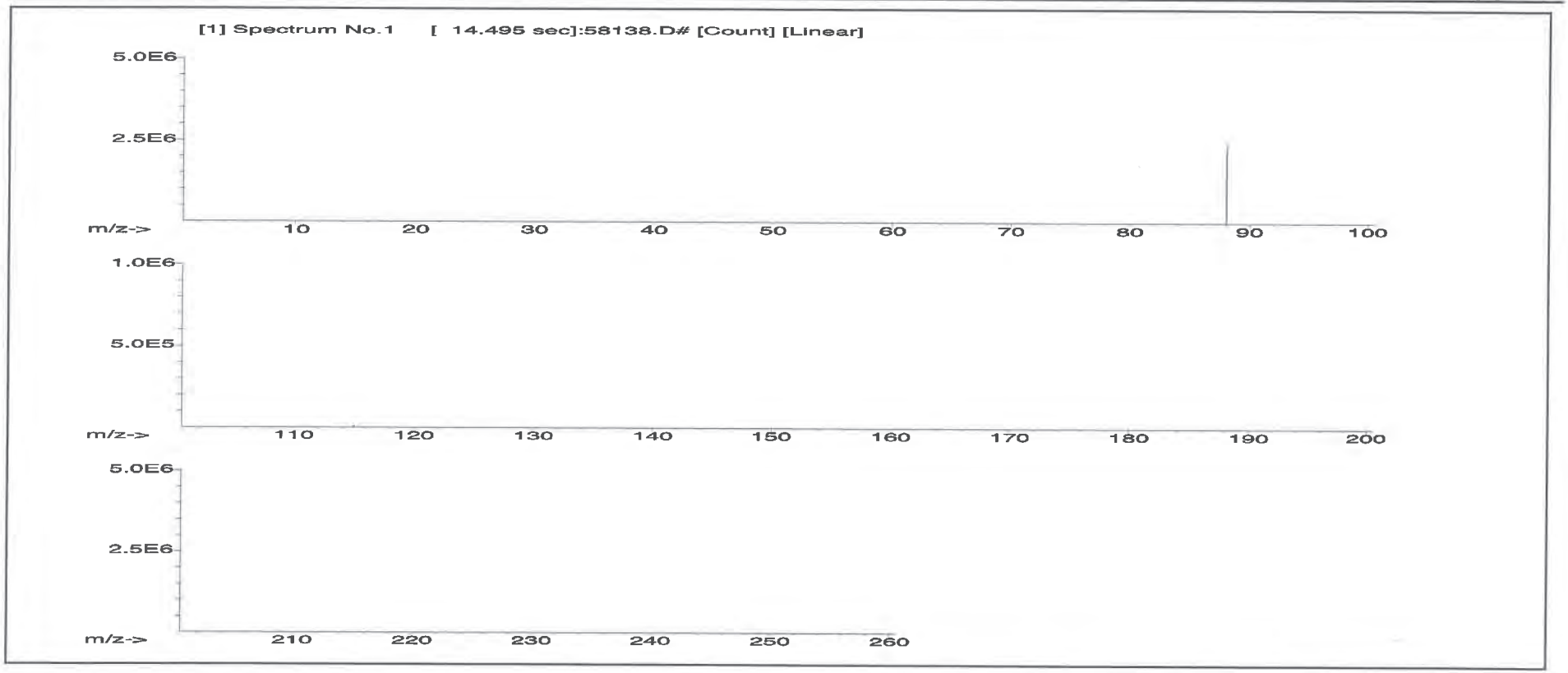
R: 03/16/23 M5473 M5474, M5475, M5476

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**56138**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**082922**			
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid
Expiration Date:	082925			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



1093

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153966

SOP ID : M200.8-Trace Elements-21, MSFAM01.1-Metals ICPMS-2

SDG No : MJVA80,MH0F81,MH0F01

Start Digest Date: 07/07/2023 **Time :** 09:30 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 07/07/2023 **Time :** 10:00 **Temp :** 95 °C

Pippete ID: ICP A

Digestion tube ID: M5593

Balance ID : M SC-2

Block thermometer ID: MET-DIG. #3

Filter paper ID : N/A

Dig Technician Signature: [illegible]

pH Strip ID : N/A

Supervisor Signature: [illegible]

Hood ID : #3

Block ID: **1.** HOT BLOCK#3 **2.** N/A

Temp : **1.** 95°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP76247
Spike Sol. B	1.00	MP76131
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP75962
1:4 HCl Solution	10.00	MP74931
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/7/23 16:10	[illegible]	[illegible]
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153966

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
O3433-01	MJVA80	N/A	1.39	500	Brown	Brown	Medium	N/A	N/A	3-1
O3433-02	MJVA90	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	2
O3433-03	MJVA91	N/A	1.08	500	Brown	Brown	Medium	N/A	N/A	3
O3433-04	MJVA92	N/A	1.27	500	Brown	Brown	Medium	N/A	N/A	4
O3433-05	MJVA92D	N/A	1.22	500	Brown	Brown	Medium	N/A	N/A	5
O3433-06	MJVA92S	N/A	1.17	500	Brown	Brown	Medium	N/A	MP76131	6
O3449-01	MH0F81	N/A	1.13	500	Brown	Brown	Medium	N/A	N/A	7
O3449-02	MH0F81D	N/A	1.22	500	Brown	Brown	Medium	N/A	N/A	8
O3449-03	MH0F81S	N/A	1.13	500	Brown	Brown	Medium	N/A	MP76131	9
O3449-04	MH0F82	N/A	1.14	500	Brown	Brown	Medium	N/A	N/A	10
O3449-05	MH0F83	N/A	1.20	500	Brown	Brown	Medium	N/A	N/A	11
O3449-06	MH0F84	N/A	1.10	500	Brown	Brown	Medium	N/A	N/A	12
O3449-07	MH0F85	N/A	1.12	500	Brown	Brown	Medium	N/A	N/A	13
O3449-08	MH0F86	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	14
O3449-09	MH0F87	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	15
O3449-10	MH0F88	N/A	1.21	500	Brown	Brown	Medium	N/A	N/A	16
O3450-01	MH0F01	N/A	1.29	500	Brown	Brown	Medium	N/A	N/A	17
O3450-02	MH0F05	N/A	1.39	500	Brown	Brown	Medium	N/A	N/A	18
O3450-03	MH0F06	N/A	1.20	500	Brown	Brown	Medium	N/A	N/A	19
O3450-04	MH0F80	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	20
O3450-05	MH0F80D	N/A	1.48	500	Brown	Brown	Medium	N/A	N/A	21
O3450-06	MH0F80S	N/A	1.49	500	Brown	Brown	Medium	N/A	MP76131	22
PB153966BL	PBS966	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	23
PB153966BS	LCS966	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP76247	24

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE075	TUNE	07/12/23 09:39		Jaswal	OK
2	S00	S0	CAL1	07/12/23 12:09		Jaswal	OK
3	S02	S02	CAL3	07/12/23 12:12		Jaswal	OK
4	S03	S03	CAL4	07/12/23 12:15		Jaswal	OK
5	S04	S04	CAL5	07/12/23 12:18		Jaswal	OK
6	S05	S05	CAL6	07/12/23 12:21		Jaswal	OK
7	S06	S06	CAL7	07/12/23 12:24		Jaswal	OK
8	S07	S07	CAL8	07/12/23 12:27		Jaswal	OK
9	S08	S08	CAL9	07/12/23 12:30		Jaswal	OK
10	ICV075	ICV075	ICV	07/12/23 13:14		Jaswal	OK
11	ICB075	ICB075	ICB	07/12/23 13:17		Jaswal	OK
12	ICSA075	ICSA075	ICSA	07/12/23 13:20		Jaswal	OK
13	ICSAB075	ICSAB075	ICSAB	07/12/23 13:23		Jaswal	OK
14	CCV023	CCV023	CCV	07/12/23 13:26	%RSD Fail For Ca	Jaswal	OK
15	CCB023	CCB023	CCB	07/12/23 13:29		Jaswal	OK
16	PB154039BL	PBW039	MB	07/12/23 13:32	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
17	PB154039BS	LCS039	LCS	07/12/23 13:35	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
18	O3524-01	MH0F96	SAM	07/12/23 13:38	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
19	O3524-02	MH0F97	SAM	07/12/23 13:41	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
20	O3524-03	MH0F97D	DUP	07/12/23 13:44	CCV023 %RSD Fail For Ca	Jaswal	Not Ok

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

21	O3524-02L	MH0F97L	SD	07/12/23 13:47	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
22	O3524-04	MH0F97S	MS	07/12/23 13:50	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
23	O3524-05	MH0F98	SAM	07/12/23 13:53	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
24	O3524-06	MH0F99	SAM	07/12/23 13:56	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
25	O3524-07	MH0FA0	SAM	07/12/23 13:59	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
26	PB153920BL	PBS920	MB	07/12/23 14:05		Jaswal	OK
27	PB153920BS	LCS920	LCS	07/12/23 14:09		Jaswal	OK
28	O3446-01	MH0F02	SAM	07/12/23 14:12		Jaswal	OK
29	O3446-02	MH0F02D	DUP	07/12/23 14:15		Jaswal	OK
30	O3446-01L	MH0F02L	SD	07/12/23 14:18		Jaswal	OK
31	O3446-03	MH0F02S	MS	07/12/23 14:21	MS Fail For AS	Jaswal	OK
32	O3446-04	MH0F03	SAM	07/12/23 14:24		Jaswal	OK
33	O3446-05	MH0F07	SAM	07/12/23 14:27		Jaswal	OK
34	O3446-06	MH0F08	SAM	07/12/23 14:30		Jaswal	OK
35	O3446-07	MH0F09	SAM	07/12/23 14:33		Jaswal	OK
36	O3446-08	MH0F10	SAM	07/12/23 14:35		Jaswal	OK
37	O3446-09	MH0F11	SAM	07/12/23 14:38		Jaswal	OK
38	O3446-10	MH0F12	SAM	07/12/23 14:41		Jaswal	OK
39	O3446-11	MH0F13	SAM	07/12/23 14:44		Jaswal	OK
40	O3446-12	MH0F14	SAM	07/12/23 14:47		Jaswal	OK
41	O3446-13	MH0F27	SAM	07/12/23 14:50		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

42	O3446-14	MH0F28	SAM	07/12/23 14:53		Jaswal	OK
43	O3446-15	MH0F29	SAM	07/12/23 14:56		Jaswal	OK
44	CCV024	CCV024	CCV	07/12/23 15:05		Jaswal	OK
45	CCB024	CCB024	CCB	07/12/23 15:08		Jaswal	OK
46	O3446-16	MH0F30	SAM	07/12/23 15:11		Jaswal	OK
47	O3446-17	MH0F31	SAM	07/12/23 15:14		Jaswal	OK
48	O3446-18	MH0F32	SAM	07/12/23 15:17		Jaswal	OK
49	O3446-19	MH0F33	SAM	07/12/23 15:20		Jaswal	OK
50	O3446-20	MH0F34	SAM	07/12/23 15:23		Jaswal	OK
51	O3446-21	MH0F35	SAM	07/12/23 15:26		Jaswal	OK
52	O3446-22	MH0F36	SAM	07/12/23 15:29		Jaswal	OK
53	O3446-01A	MH0F02A	PS	07/12/23 15:32	PS For As	Jaswal	OK
54	PB153921BL	PBS921	MB	07/12/23 15:38		Jaswal	OK
55	PB153921BS	LCS921	LCS	07/12/23 15:41		Jaswal	OK
56	O3447-01	MH0F15	SAM	07/12/23 15:44		Jaswal	OK
57	O3447-02	MH0F16	SAM	07/12/23 15:47		Jaswal	OK
58	O3447-03	MH0F17	SAM	07/12/23 15:50	INT. STD 89m(1) 2_Fail	Jaswal	Dilution
59	O3447-04	MH0F18	SAM	07/12/23 15:53	INT. STD 89m(1) 2_Fail	Jaswal	Dilution
60	O3447-05	MH0F21	SAM	07/12/23 15:56		Jaswal	OK
61	O3447-06	MH0F22	SAM	07/12/23 15:59		Jaswal	OK
62	O3447-07	MH0F23	SAM	07/12/23 16:02		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

63	O3447-08	MH0F23D	DUP	07/12/23 16:05		Jaswal	OK
64	O3447-07L	MH0F23L	SD	07/12/23 16:08		Jaswal	OK
65	O3447-09	MH0F23S	MS	07/12/23 16:11	MS Fail For Yn	Jaswal	OK
66	O3447-10	MH0F24	SAM	07/12/23 16:14		Jaswal	OK
67	O3447-11	MH0F25	SAM	07/12/23 16:17		Jaswal	OK
68	O3447-12	MH0F26	SAM	07/12/23 16:20		Jaswal	OK
69	O3447-13	MH0F37	SAM	07/12/23 16:23		Jaswal	OK
70	O3447-14	MH0F38	SAM	07/12/23 16:26		Jaswal	OK
71	O3447-15	MH0F39	SAM	07/12/23 16:29		Jaswal	OK
72	O3447-16	MH0F40	SAM	07/12/23 16:32		Jaswal	OK
73	O3447-17	MH0F45	SAM	07/12/23 16:35		Jaswal	OK
74	O3447-18	MH0F46	SAM	07/12/23 16:38		Jaswal	OK
75	CCV025	CCV025	CCV	07/12/23 16:50		Jaswal	OK
76	CCB025	CCB025	CCB	07/12/23 16:54		Jaswal	OK
77	O3447-19	MH0F47	SAM	07/12/23 16:57		Jaswal	OK
78	O3447-20	MH0F48	SAM	07/12/23 17:00		Jaswal	OK
79	O3447-21	MH0F49	SAM	07/12/23 17:03		Jaswal	OK
80	O3447-22	MH0F50	SAM	07/12/23 17:06		Jaswal	OK
81	O3447-03DL	MH0F17	SAM	07/12/23 17:09	2& For INT. STD 89m(1) 2_	Jaswal	ConZrX s
82	O3447-04DL	MH0F18	SAM	07/12/23 17:12	2& For INT. STD 89m(1) 2_	Jaswal	ConZrX s
83	O3447-07A	MH0F23A	PS	07/12/23 17:14	PS For Yn(0f0046X I X 4891-10X I saX ple_	Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
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STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

84	PB153993BL	PBS993	MB	07/12/23 17:19		Jaswal	OK
85	PB153993BS	LCS993	LCS	07/12/23 17:22		Jaswal	OK
86	O3448-12	MH0F68	SAM	07/12/23 17:26		Jaswal	OK
87	O3448-13	MH0F68D	DUP	07/12/23 17:28		Jaswal	OK
88	O3448-12L	MH0F68L	SD	07/12/23 17:31		Jaswal	OK
89	O3448-14	MH0F68S	MS	07/12/23 17:34		Jaswal	OK
90	O3448-05	MH0F57	SAM	07/12/23 17:37		Jaswal	OK
91	O3448-06	MH0F58	SAM	07/12/23 17:41		Jaswal	OK
92	O3448-07	MH0F59	SAM	07/12/23 17:44		Jaswal	OK
93	O3448-08	MH0F60	SAM	07/12/23 17:47		Jaswal	OK
94	O3448-09	MH0F61	SAM	07/12/23 17:50		Jaswal	OK
95	O3448-10	MH0F62	SAM	07/12/23 17:52		Jaswal	OK
96	O3448-11	MH0F63	SAM	07/12/23 17:55		Jaswal	OK
97	O3448-01	MH0F51	SAM	07/12/23 17:58		Jaswal	OK
98	O3448-02	MH0F54	SAM	07/12/23 18:01		Jaswal	OK
99	O3448-03	MH0F55	SAM	07/12/23 18:04		Jaswal	OK
100	O3448-04	MH0F56	SAM	07/12/23 18:07		Jaswal	OK
101	O3448-15	MH0F69	SAM	07/12/23 18:10		Jaswal	OK
102	O3448-16	MH0F70	SAM	07/12/23 18:13		Jaswal	OK
103	O3448-17	MH0F71	SAM	07/12/23 18:16		Jaswal	OK
104	O3448-18	MH0F72	SAM	07/12/23 18:19		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

105	O3448-19	MH0F73	SAM	07/12/23 18:22		Jaswal	OK
106	CCV026	CCV026	CCV	07/12/23 18:44		Jaswal	OK
107	CCB026	CCB026	CCB	07/12/23 18:48		Jaswal	OK
108	O3448-20	MH0F74	SAM	07/12/23 18:51		Jaswal	OK
109	O3448-21	MH0F75	SAM	07/12/23 18:54		Jaswal	OK
110	O3448-22	MH0F76	SAM	07/12/23 18:56		Jaswal	OK
111	PB153966BL	PBS966	MB	07/12/23 19:01		Jaswal	OK
112	PB153966BS	LCS966	LCS	07/12/23 19:04		Jaswal	OK
113	O3433-04	MJVA92	SAM	07/12/23 19:07		Jaswal	OK
114	O3433-05	MJVA92D	DUP	07/12/23 19:10		Jaswal	OK
115	O3433-04L	MJVA92L	SD	07/12/23 19:13		Jaswal	OK
116	O3433-06	MJVA92S	MS	07/12/23 19:16		Jaswal	OK
117	O3450-04	MH0F80	SAM	07/12/23 19:19		Jaswal	OK
118	O3450-05	MH0F80D	DUP	07/12/23 19:22		Jaswal	OK
119	O3450-04L	MH0F80L	SD	07/12/23 19:25		Jaswal	OK
120	O3450-06	MH0F80S	MS	07/12/23 19:28		Jaswal	OK
121	O3449-01	MH0F81	SAM	07/12/23 19:31		Jaswal	OK
122	O3449-02	MH0F81D	DUP	07/12/23 19:34		Jaswal	OK
123	O3449-01LRE	MH0F81L	SD	07/12/23 19:37	Not Use	Jaswal	Not Ok
124	O3449-03	MH0F81S	MS	07/12/23 19:40	MS Fail For Ba	Jaswal	OK
125	O3449-01L	MH0F81L	SD	07/12/23 19:43		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

126	O3433-01	MJVA80	SAM	07/12/23 19:46		Jaswal	OK
127	O3433-02	MJVA90	SAM	07/12/23 19:49		Jaswal	OK
128	O3433-03	MJVA91	SAM	07/12/23 19:52		Jaswal	OK
129	O3450-01	MH0F01	SAM	07/12/23 19:55		Jaswal	OK
130	O3450-02	MH0F05	SAM	07/12/23 19:58		Jaswal	OK
131	O3450-03	MH0F06	SAM	07/12/23 20:01		Jaswal	OK
132	O3449-04	MH0F82	SAM	07/12/23 20:04		Jaswal	OK
133	O3449-05	MH0F83	SAM	07/12/23 20:07		Jaswal	OK
134	O3449-06	MH0F84	SAM	07/12/23 20:10		Jaswal	OK
135	O3449-07	MH0F85	SAM	07/12/23 20:13		Jaswal	OK
136	O3449-08	MH0F86	SAM	07/12/23 20:16		Jaswal	OK
137	CCV027	CCV027	CCV	07/12/23 20:32		Jaswal	OK
138	CCB027	CCB027	CCB	07/12/23 20:36		Jaswal	OK
139	O3449-09	MH0F87	SAM	07/12/23 20:39		Jaswal	OK
140	O3449-10	MH0F88	SAM	07/12/23 20:42		Jaswal	OK
141	O3433-04A	MJVA92A	PS	07/12/23 20:45	Not Required	Jaswal	Not Ok
142	O3449-01A	MH0F81A	PS	07/12/23 20:48	PS For Ba(0f0082X I X 5387-10X I saX ple_	Jaswal	OK
143	CCV028	CCV028	CCV	07/12/23 20:55		Jaswal	OK
144	CCB028	CCB028	CCB	07/12/23 20:58		Jaswal	OK

1103

ORIGIN ID:DENH (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 50.40 LB
CAD: 6754017/SSFO2422
DIMS: 24x14x14 IN
BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092

6/27/23
13:30
19:1

Part # 156297-4865 RAD82 RRB 05/24

FedEx Express

TUE - 27 JUN 4:30P
** 2DAY **

6 of 6
MPS# 7802 8789 1560
0263
Mstr# 7802 8789 1515
0201

TE KBCA

07092
NJ-US EWR

Copy
Original Document to be included in CAF

Signature

6/27/23
Date

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3449	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Sohil
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	6/30/2023 9:46:40 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3449-01	MH0F81	Solid	06/13/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-02	MH0F81D	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-03	MH0F81S	Solid	06/13/2023						
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-04	MH0F82	Solid	06/13/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-05	MH0F83	Solid	06/12/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-06	MH0F84	Solid	06/12/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-07	MH0F85	Solid	06/12/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-08	MH0F86	Solid	06/12/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-09	MH0F87	Solid	06/12/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3449-10	MH0F88	Solid	06/12/2023		DUP				
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153966 **WorkList ID :** 171571 **Department :** Digestion **Date :** 07-07-2023 08:54:07

1105

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3433-01	MJVA80	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-02	MJVA90	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-03	MJVA91	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-04	MJVA92	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-05	MJVA92D	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-06	MJVA92S	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3450-03	MH0F06	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-04	MH0F80	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-05	MH0F80D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-06	MH0F80S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3449-07	MH0F85	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3449-08	MH0F86	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3449-09	MH0F87	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3449-10	MH0F88	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3450-01	MH0F01	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-02	MH0F05	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3449-01	MH0F81	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-02	MH0F81D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-03	MH0F81S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-04	MH0F82	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-05	MH0F83	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS

Date/Time 7/7/23 8:55

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 7/7/23 9:45

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153966 **WorkList ID :** 171571 **Department :** Digestion **Date :** 07-03-2023 10:54:07

1106

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3449-06	MH0F84	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS

Date/Time 7/7/23 8:55
Raw Sample Received by: AHBig. Lab
Raw Sample Relinquished by: CP SM

Date/Time 7/7/23 9:45
Raw Sample Received by: CP SM
Raw Sample Relinquished by: AHBig. Lab

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0F01

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0F01	O3450-01		X	X	
MH0F05	O3450-02		X	X	
MH0F06	O3450-03		X	X	
MH0F80	O3450-04		X	X	
MH0F80D	O3450-05		X	X	
MH0F80S	O3450-06		X	X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name: APPROVED

By Nimisha Pandya QA/QC Supervisor at 4:28 pm, Jul 17, 2023

Date: 7/17/2023 Title:

68HERH20D0011 SDG # MH0F01

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-132923-0001

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SD-08	MH0F01	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1004, 1005 (2)	8	06/13/2023 15:22	
HWY-SD-06	MH0F05	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1020, 1021 (2)	06B	06/13/2023 16:20	
HWY-SD-09	MH0F06	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1024, 1025 (2)	9	06/13/2023 14:21	
HWY-SD-08-DUP	MH0F80	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1214, 1215 (2)	8	06/13/2023 15:22	
HWY-SW-06	MH0F91	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1236 (HNO3), 1237 (HNO3), 1238 (HNO3), 1251 (HNO3) (4)	06B	06/13/2023 16:15	
HWY-SW-08-DUP	MH0F92	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1239 (HNO3), 1240 (HNO3), 1241 (HNO3), 1253 (HNO3) (4)	8	06/13/2023 15:18	
HWY-SW-08	MH0F93	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1242 (HNO3), 1243 (HNO3), 1244 (HNO3), 1252 (HNO3) (4)	8	06/13/2023 15:16	MS/MSD
HWY-SW-09	MH0F94	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1245 (HNO3), 1246 (HNO3), 1247 (HNO3), 1254 (HNO3) (4)	9	06/13/2023 14:14	

Sample(s) to be used for Lab QC: HWY-SW-FB-1 Tag 1248, HWY-SW-FB-1 Tag 1249, HWY-SW-FB-1 Tag 1250, HWY-SW-FB-1 Tag 1255 Dissolved Metals SW samples filtered in field. use extra volume of HWY-SW-08 for MS/MSD.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury, Hardness=CLP Hardness, ICP-MS-D=CLP ICP-MS Metals (Dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		1330 6/27/23	Tf Gun #1 18.3°C
					Custody Seal Intact
					no temp Blank

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 1
Received By (Print Name) Cassandra Rara		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F01	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891526 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	18.3 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH0F01	N/A	1004,1005	O3450-01	Intact
2	MH0F05	N/A	1020,1021	O3450-02	Intact
3	MH0F06	N/A	1024,1025	O3450-03	Intact
4	MH0F80	N/A	1214,1215	O3450-04	Intact
5	MH0F80D	N/A	1214,1215	O3450-05	Intact
6	MH0F80S	N/A	1214,1215	O3450-06	Intact
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0F01**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	2	✓	
3 . Sample Log-In Sheet (DC-1)	3	3	✓	
4 . CSF Inventory Sheet (DC-2)	4	6	✓	
5 . SDG Narrative	7	10	✓	
6 . Communication Logs	11	24	✓	
7 . Percent Solids Log	25	26	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	27	30	✓	
18 . Instrument raw data by instrument in analysis order	31	898	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	899	1035	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1036	1037	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1038	1044	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	1045	1048	✓	
27. Instrument raw data by instrument in analysis order	1049	1051	✓	
Other Data				
28. Standard and Reagent Preparation Logs	1052	1078	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1079	1080	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1081	1085	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	1086	1086	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1087	1087	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1088	1090	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab) N. N. Pandya (Signature) | Nimisha Pandya, Document Control Officer (Print Name & Title) | 7/17/2023 (Date)

Audited by: (EPA) (Signature) | (Print Name & Title) | (Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0F01
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3450

A. Number of Samples and Date of Receipt

04 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Metals CLP MS Full = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc & Hg.

C. Cooler Temp

Indicator Bottle**:** Presence**/Absence**
Cooler: 18.3^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.

Issue 4: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 4: Per Region 8, please note the issue in the SDG Narrative and proceed with MS/MSD analysis using sample MH0F80.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0F01 For Barium:

If C = 141.28 ppb
Vf = 500 ml
W = 1.29 g
S = 0.779 (77.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 141.28 \times \frac{500}{1.29 \times 0.779} \times 1 / 1000$$

$$= 70.2948 \text{ mg/kg}$$

$$= 70 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation :

If C = 2.6049 ppb
Vf = 100 mL
W = 0.54 g
S = 1.0(100/100)
DF = 1

$$\text{Concentration (mg/kg)} = 2.6049 \times \frac{100}{0.54 \times 1.0} \times 1 / 1000$$

$$= 0.4823 \text{ mg/kg}$$

$$= 0.48 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

	Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya Name: Nimisha Pandya

Date 7/17/2023 Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, June 30, 2023 2:23 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; epa@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

Updated Record of Communication
This updated ROC is being sent to provide an updated resolution for issue 1.

Good afternoon,

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.
Resolution 1: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis using samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with MS/MSD analysis using sample MH0F80.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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Information Technology

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, June 30, 2023 1:19 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

[External: Use caution with links & attachments]

Hi Samantha, the change from MH0F82 to MH0F81 for lab QC is acceptable for Issue 1.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, June 30, 2023 11:04 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Good morning,

Please advise on the update to Issue 1. The laboratory has changed one of the samples that they want to use for laboratory QC, from MH0F82 to MH0F81.

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F81 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with MS/MSD analysis using sample MH0F80.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, June 30, 2023 10:13 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Can you please update below ROC as I sent you the updated issue1 earlier today morning?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: sohil@chemtech.net sohil@chemtech.net
Sent: Friday, June 30, 2023 9:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: deepak@CHEMTECH.NET
Subject: RE: Region 8 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Samantha,

Please see below updated issue1,

Issue1: Lab has received 70 soil samples for ICP-MS and Hg analysis and eight samples are designated for Lab QC on the COC. However, one Lab QC is required for every 20 samples therefore lab would like to confirm that lab will use sample MH0F02,MHOF23,MH0F68 and MH0F81 for Lab QC for this SDG"s .

Isuue2: Lab has received four sediment sample Qc sample are not designated for Lab QC on the COC lab like to use sample MH0F80 lab QC. This sample is not a PE, blank, or rinsate sample.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, June 30, 2023 10:07 AM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net; epa@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

Good morning,

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F82 for laboratory QC.
Resolution 1: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis using samples MH0F02, MHOF23, MH0F68 and MH0F82 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with MS/MSD analysis using sample MH0F80.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate

GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, June 29, 2023 5:43 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

[External: Use caution with links & attachments]

Sounds good, thanks Matt.

Samantha, please proceed and use the MS/MSD samples as recommended by the lab for Issues 1 and 2.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, June 29, 2023 1:13 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Okay, let's go with those suggestions. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, June 29, 2023 1:05:08 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

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We really should get an answer out to the lab today. I'm fairly confident they don't need all the QC samples as request per the COC(s). My advice is going with the lab recommendations.
-dgg
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, June 29, 2023 12:55 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Don,

Thanks for following up. I'm in the field right now until tomorrow (driving back to Denver tomorrow). Is this urgent or can I get you an answer when I get back in town? I just want to check with our quality folks as well as the OSC. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, June 29, 2023 9:34:35 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

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Hi Matt, I'm good with the resolutions that were proposed by the lab but I wanted to confirm this doesn't impact what you are needing or requiring per your QAPP. Let me know if this is acceptable and I will notify Samantha.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, June 29, 2023 9:05 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC

Good morning,

Please advise on the following issues from CHM.

Issue 1: The laboratory received 70 soil samples scheduled for ICP-MS and Hg analysis and 8 samples scheduled for MS/MSD. Since Laboratory QC is only required for every 20 samples, the laboratory would like to use samples MH0F02, MHOF23, MH0F68 and MH0F82 for laboratory QC.

Issue 2: The laboratory has received 4 sediment MS/MSD samples, but they are not designated for MS/MSD on the COC. The laboratory would like to use only sample MH0F80 for MS/MSD. The laboratory has confirmed the sample MH0F80 is not a PE, blank, or rinsate sample.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Wednesday, June 28, 2023 8:34 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>
Subject: Region 8 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

Samples received under this case as below discrepancies,

Issue1: Lab has received 70 soil samples for ICP-MS and Hg analysis and eight samples are designated for Lab QC on the COC. However, one Lab QC is required for every 20 samples therefore lab would like to confirm that lab will use sample MH0F02,MHOF23,MH0F68 and MH0F82 for Lab QC for this SDG"s .

Isuue2: Lab has received four sediment sample Qc sample are not designated for Lab QC on the COC lab like to use sample MH0F80 lab QC. This sample is not a PE, blank, or rinsate sample.

Regards,

Deepak Parmar
QA/QC

CHEMTECH

PERCENT SOLID

Supervisor: Sohil
Analyst: JIGNESH
Date: 7/17/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 14:35
In Date: 06/30/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 07/01/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126273

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3450-01	MH0F01	1	1.15	8.41	9.56	7.7	77.9	
O3450-02	MH0F05	2	1.18	8.46	9.64	7.65	76.5	
O3450-03	MH0F06	3	1.12	8.86	9.98	8.12	79.0	
O3450-04	MH0F80	4	1.14	8.85	9.99	8.52	83.4	
O3450-05	MH0F80D	5	1.14	8.85	9.99	8.52	83.4	
O3450-06	MH0F80S	6	1.14	8.85	9.99	8.52	83.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

VB 126273

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-O3450 **WorkList ID :** 171520 **Department :** Wet-Chemistry **Date :** 06-30-2023 13:27:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3450-01	MH0F01	Solid	Percent Solids	Cool 4 deg C	USEP01	B13	06/13/2023	Chemtech -SO
O3450-02	MH0F05	Solid	Percent Solids	Cool 4 deg C	USEP01	B13	06/13/2023	Chemtech -SO
O3450-03	MH0F06	Solid	Percent Solids	Cool 4 deg C	USEP01	B13	06/13/2023	Chemtech -SO
O3450-04	MH0F80	Solid	Percent Solids	Cool 4 deg C	USEP01	B13	06/13/2023	Chemtech -SO
O3450-05	MH0F80D	Solid	Percent Solids	Cool 4 deg C	USEP01	B13	06/13/2023	Chemtech -SO
O3450-06	MH0F80S	Solid	Percent Solids	Cool 4 deg C	USEP01	B13	06/13/2023	Chemtech -SO

Date/Time 6/30/23 14:00
Raw Sample Received by: JR (WC)
Raw Sample Relinquished by: JT (SM)

Date/Time 6/30/23 14:40
Raw Sample Received by: JT (SM)
Raw Sample Relinquished by: JR (WC)

EPA SAMPLE NO.

MH0F01

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3450-01

% Solids: 77.9 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.21	J	07/12/2023	1955
7440-38-2	Arsenic	3.5		07/12/2023	1955
7440-39-3	Barium	70		07/12/2023	1955
7440-41-7	Beryllium	0.59		07/12/2023	1955
7440-43-9	Cadmium	0.13	J	07/12/2023	1955
7440-47-3	Chromium	7.2		07/12/2023	1955
7440-48-4	Cobalt	1.8		07/12/2023	1955
7440-50-8	Copper	4.7		07/12/2023	1955
7439-92-1	Lead	11		07/12/2023	1955
7439-96-5	Manganese	220		07/12/2023	1955
7440-02-0	Nickel	3.2		07/12/2023	1955
7782-49-2	Selenium	2.5	U	07/12/2023	1955
7440-22-4	Silver	0.060	J	07/12/2023	1955
7440-28-0	Thallium	0.085	J	07/12/2023	1955
7440-62-2	Vanadium	7.3		07/12/2023	1955
7440-66-6	Zinc	53		07/12/2023	1955

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F05

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3450-02

% Solids: 76.5 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.16	J	07/12/2023	1958
7440-38-2	Arsenic	2.9		07/12/2023	1958
7440-39-3	Barium	65		07/12/2023	1958
7440-41-7	Beryllium	0.58		07/12/2023	1958
7440-43-9	Cadmium	0.094	J	07/12/2023	1958
7440-47-3	Chromium	7.2		07/12/2023	1958
7440-48-4	Cobalt	1.8		07/12/2023	1958
7440-50-8	Copper	4.5		07/12/2023	1958
7439-92-1	Lead	9.5		07/12/2023	1958
7439-96-5	Manganese	240		07/12/2023	1958
7440-02-0	Nickel	3.1		07/12/2023	1958
7782-49-2	Selenium	2.4	U	07/12/2023	1958
7440-22-4	Silver	0.042	J	07/12/2023	1958
7440-28-0	Thallium	0.075	J	07/12/2023	1958
7440-62-2	Vanadium	6.9		07/12/2023	1958
7440-66-6	Zinc	39		07/12/2023	1958

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F06

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3450-03

% Solids: 79 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	1.1	U	07/12/2023	2001
7440-38-2	Arsenic	1.1		07/12/2023	2001
7440-39-3	Barium	18		07/12/2023	2001
7440-41-7	Beryllium	0.24	J	07/12/2023	2001
7440-43-9	Cadmium	0.53	U	07/12/2023	2001
7440-47-3	Chromium	0.80	J	07/12/2023	2001
7440-48-4	Cobalt	0.53		07/12/2023	2001
7440-50-8	Copper	1.3		07/12/2023	2001
7439-92-1	Lead	2.1		07/12/2023	2001
7439-96-5	Manganese	150		07/12/2023	2001
7440-02-0	Nickel	0.68		07/12/2023	2001
7782-49-2	Selenium	2.6	U	07/12/2023	2001
7440-22-4	Silver	0.53	U	07/12/2023	2001
7440-28-0	Thallium	0.53	U	07/12/2023	2001
7440-62-2	Vanadium	1.7	J	07/12/2023	2001
7440-66-6	Zinc	24		07/12/2023	2001

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F50

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 65HERH20D0011

Lab Code: CHM Case No.: 80586 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3480-04

% Solids: 53.4 Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.34	J	07/12/2023	1919
7440-35-2	Arsenic	3.3		07/12/2023	1919
7440-39-3	Barium	70		07/12/2023	1919
7440-41-7	Beryllium	0.62		07/12/2023	1919
7440-43-9	Cadmium	0.14	J	07/12/2023	1919
7440-47-3	Chromium	6.1		07/12/2023	1919
7440-45-4	Cobalt	1.7		07/12/2023	1919
7440-80-5	Copper	7.4		07/12/2023	1919
7439-92-1	Lead	12		07/12/2023	1919
7439-96-8	Manganese	230		07/12/2023	1919
7440-02-0	Nickel	3.8		07/12/2023	1919
7752-49-2	Selenium	2.0	U	07/12/2023	1919
7440-22-4	Silver	0.086	J	07/12/2023	1919
7440-25-0	Thallium	0.054	J	07/12/2023	1919
7440-62-2	Vanadium	7.1		07/12/2023	1919
7440-66-6	Zinc	88		07/12/2023	1919

NOTE: Hardness (total) is reported in mg/L

Comments:

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Inst Id :P8

Calibration for 160AREF.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071223 MS.b\
Analysis File: P8071223 MS.batch.bin
DA Date-Time: 2023-07-13 00:23:33
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-07-12 12:09:14
2	005CALS.d	S02	2023-07-12 12:12:16
3	006CALS.d	S03	2023-07-12 12:15:20
4	007CALS.d	S04	2023-07-12 12:18:18
5	008CALS.d	S05	2023-07-12 12:21:19
6	009CALS.d	S06	2023-07-12 12:24:17
7	010CALS.d	S07	2023-07-12 12:27:18
8	011CALS.d	S08	2023-07-12 12:30:16

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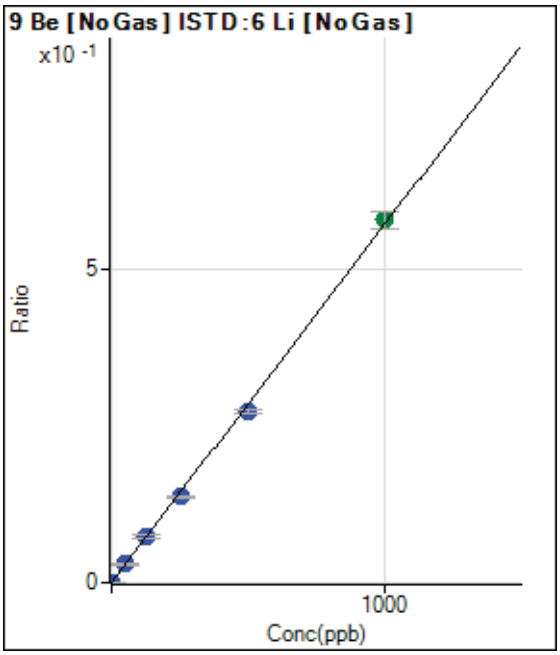
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	27.50	0.0000	P	16.3
2		1.000	0.988	1510.31	0.0006	P	1.8
3		50.000	51.041	72184.15	0.0292	P	4.5
4		125.000	129.205	170713.20	0.0739	P	8.5
5		250.000	239.879	320875.91	0.1371	P	0.9
6		500.000	476.986	610456.96	0.2726	P	2.5
7		1000.000	1013.460	1229631.46	0.5793	A	4.8
8				262.47	0.0001	P	13.9

y = 5.7157E-004 * x + 1.0563E-005

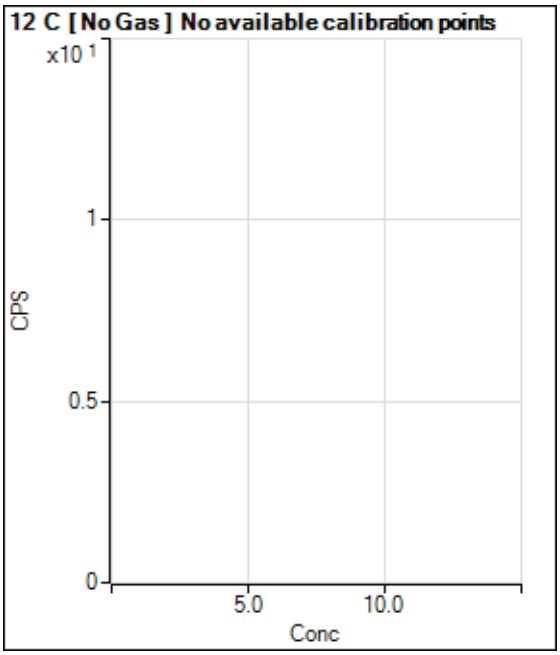
R = 0.9995

DL = 0.009038

BEC = 0.01848

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2342645.15		A	1.2
2				2315175.66		A	1.2
3				2528228.73		A	1.4
4				2481670.78		A	0.2
5				2385645.65		A	1.4
6				2442886.55		A	1.1
7				2508340.38		A	3.1
8				2363346.88		A	3.0

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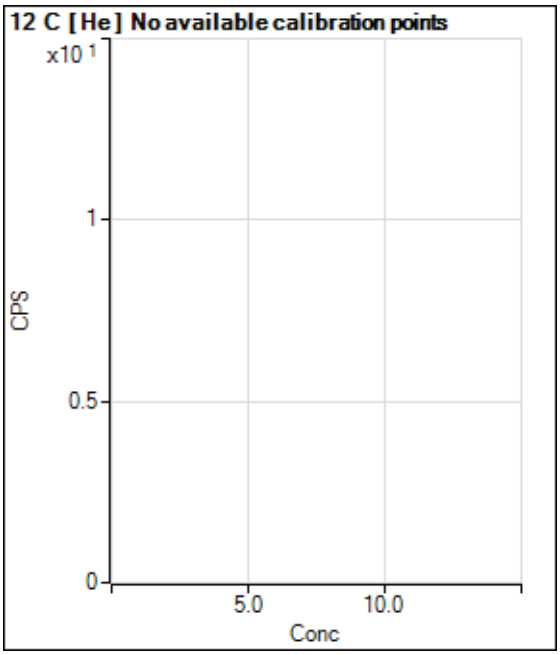
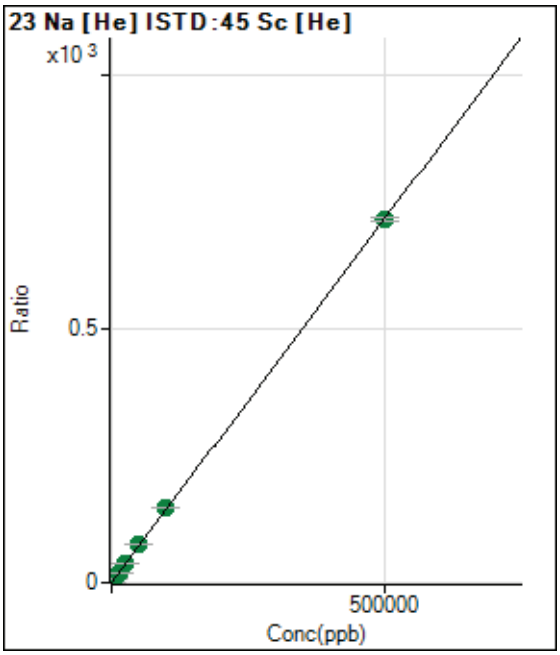
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				29591.46		P	3.4
2				29443.98		P	1.5
3				31178.06		P	0.8
4				30810.79		P	1.6
5				30621.29		P	1.4
6				32428.01		P	0.3
7				34680.43		P	3.9
8				34847.47		P	1.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	20353.51	0.1367	P	2.0
2		500.000	484.701	121660.68	0.8302	P	1.7
3		5000.000	5576.341	1136230.87	8.1148	A	1.6
4		12500.000	13568.820	2629601.60	19.5497	A	0.6
5		25000.000	25734.071	4921470.64	36.9546	A	4.9
6		50000.000	53378.812	9917915.06	76.5060	A	1.4
7		100000.00	103501.81	19873362.42	148.2173	A	1.4
8		500000.00	498892.58	95545543.11	713.9047	A	0.9

y = 0.0014 * x + 0.1367
R = 1.0000
DL = 5.722
BEC = 95.56

Weight: <None>
Min Conc: 0

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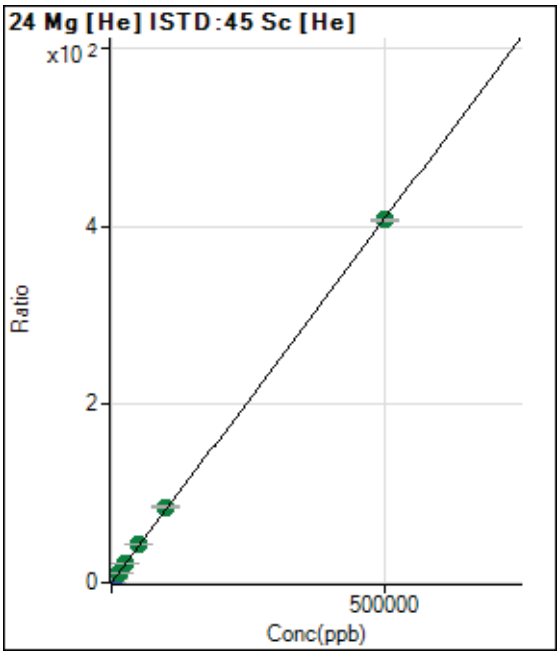
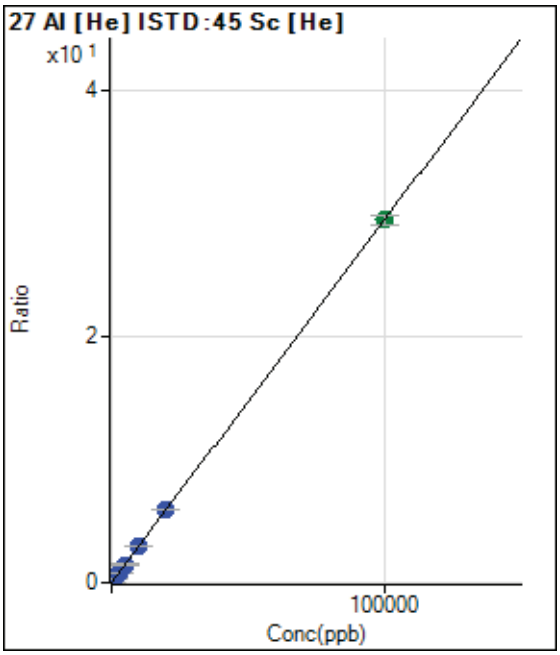


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.00	0.0005	P	68.2
2		500.000	480.583	57528.53	0.3926	P	2.1
3		5000.000	5371.637	613639.56	4.3826	P	1.8
4		12500.000	13767.603	1510656.59	11.2320	A	1.7
5		25000.000	26085.991	2834248.85	21.2812	A	4.7
6		50000.000	52833.024	5587332.41	43.1013	A	1.8
7		100000.00	103692.44	11342111.97	84.5920	A	1.6
8		500000.00	498888.52	54470326.91	406.9897	A	0.3

y = 8.1579E-004 * x + 5.0506E-004
R = 1.0000
DL = 1.266
BEC = 0.6191

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	102.91	0.0007	P	3.2
2		20.000	19.313	934.92	0.0064	P	1.8
3		1000.000	1054.996	43589.33	0.3113	P	0.6
4		2500.000	2578.388	102196.62	0.7598	P	1.2
5		5000.000	4926.850	193268.65	1.4512	P	4.8
6		10000.000	10180.422	388642.18	2.9979	P	0.8
7		20000.000	19935.137	787093.98	5.8699	P	0.6
8		100000.00	99996.078	3939917.36	29.4408	A	2.5

y = 2.9441E-004 * x + 6.9131E-004
R = 1.0000
DL = 0.2261
BEC = 2.348

Weight: <None>
Min Conc: 0

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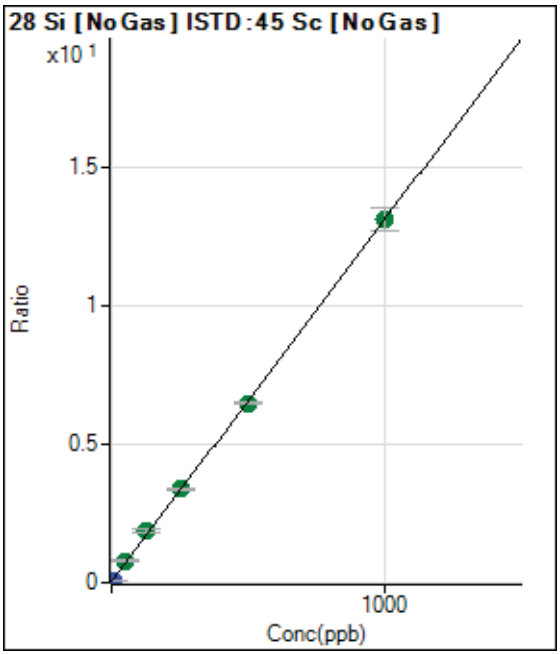
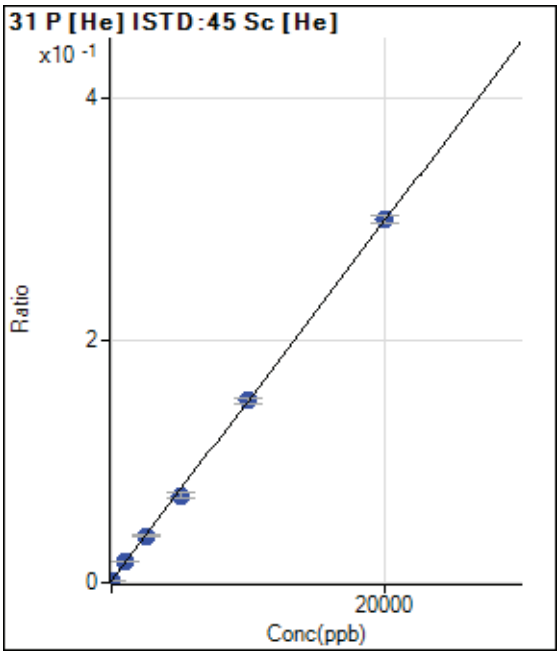
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	176439.60	0.0405	P	0.7
2		10.000	0.661	210875.84	0.0492	P	1.8
3		50.000	56.832	3120866.80	0.7825	A	7.5
4		125.000	138.468	7019926.46	1.8483	A	8.1
5		250.000	256.169	13285599.60	3.3849	A	2.5
6		500.000	493.679	25324063.93	6.4857	A	0.5
7		1000.000	999.686	49579840.35	13.0918	A	6.2
8				759609.40	0.2106	P	16.5

y = 0.0131 * x + 0.0405
R = 0.9998
DL = 0.06132
BEC = 3.104

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-8.137	252.78	0.0017	P	29.5
2		0.000	8.137	283.34	0.0019	P	21.0
3		1000.000	1032.698	2400.27	0.0171	P	1.4
4		2500.000	2457.693	5148.26	0.0383	P	4.0
5		5000.000	4726.797	9581.21	0.0720	P	5.2
6		10000.000	10017.075	19502.43	0.1504	P	3.2
7		20000.000	20063.417	40158.93	0.2995	P	2.3
8				216.67	0.0016	P	19.5

y = 1.4838E-005 * x + 0.0018
R = 0.9999
DL = 91.59
BEC = 122.5

Weight: <None>
Min Conc: 0

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On:7/14/2023 8:48:56 AM
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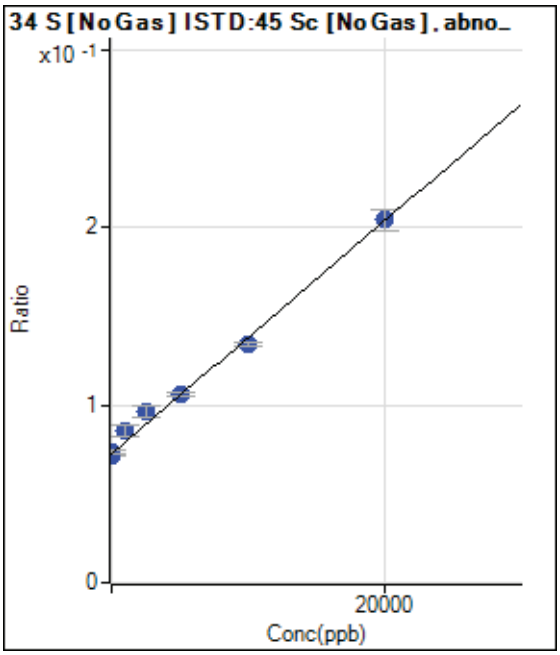
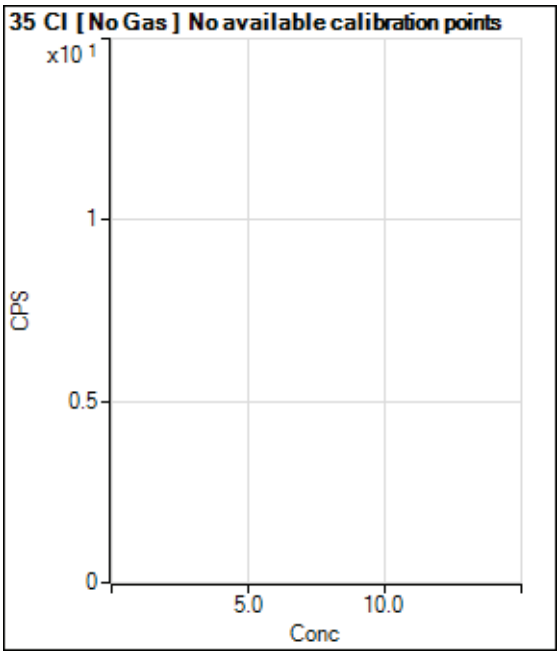


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-142.033	312135.98	0.0717	P	1.0
2		0.000	142.033	315554.01	0.0736	P	2.3
3		1000.000	1965.609	341180.05	0.0855	P	7.1
4		2500.000	3631.464	366698.86	0.0965	P	6.2
5		5000.000	5137.690	417461.67	0.1064	P	2.2
6		10000.000	9423.765	525094.67	0.1345	P	1.2
7		20000.000	20063.982	773992.49	0.2044	P	6.0
8				273045.24	0.0755	P	7.1

y = 6.5659E-006 * x + 0.0726
R = 0.9969
DL = 563.2
BEC = 1.106E+04

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				92860.89		P	3.3
2				95105.90		P	2.9
3				136610.42		P	1.0
4				131409.75		P	1.1
5				124916.40		P	0.1
6				122636.51		P	1.8
7				122238.72		P	1.7
8				136391.31		P	2.3

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On:7/14/2023 8:48:56 AM
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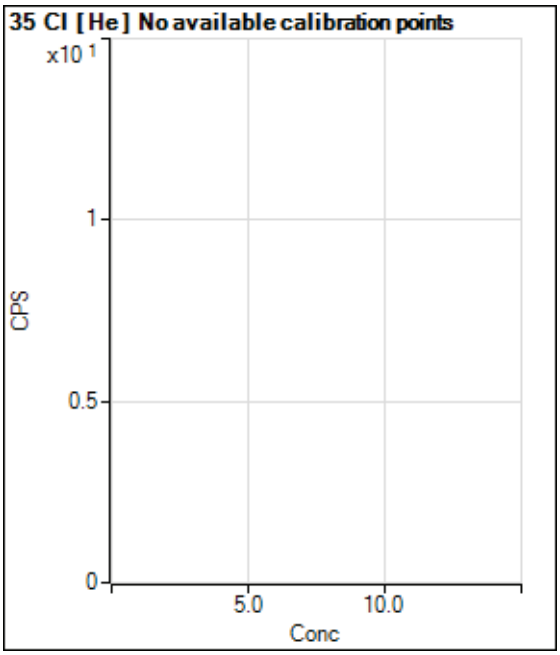
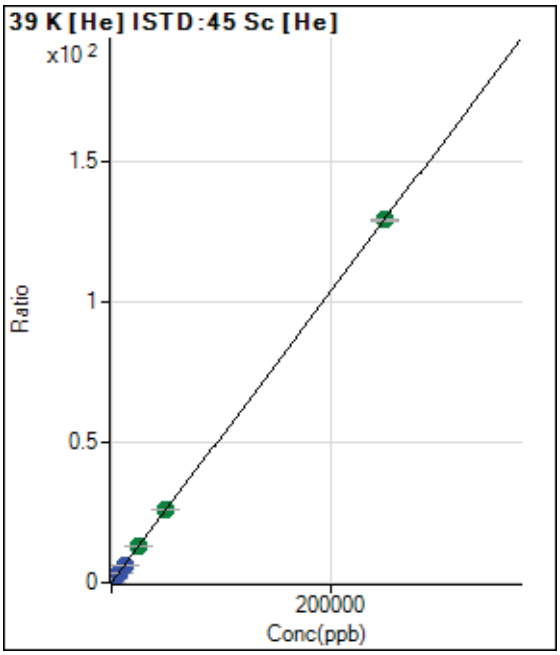


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				705.59		P	9.5
2				716.71		P	9.3
3				1044.52		P	15.4
4				933.39		P	11.8
5				952.83		P	15.8
6				850.05		P	8.5
7				986.18		P	14.0
8				1152.86		P	10.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	10262.29	0.0689	P	1.0
2		500.000	461.927	45157.58	0.3081	P	1.6
3		2500.000	2533.612	193324.52	1.3806	P	0.8
4		6250.000	6186.305	440058.14	3.2717	P	2.0
5		12500.000	11769.699	820863.53	6.1623	P	3.9
6		25000.000	25372.359	1711912.20	13.2046	A	1.8
7		50000.000	50424.732	3510249.12	26.1746	A	0.9
8		250000.00	249915.66	17325119.66	129.4540	A	0.8

y = 5.1771E-004 * x + 0.0689
R = 1.0000
DL = 4.044
BEC = 133.2

Weight: <None>
Min Conc: 0

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On:7/14/2023 8:48:56 AM
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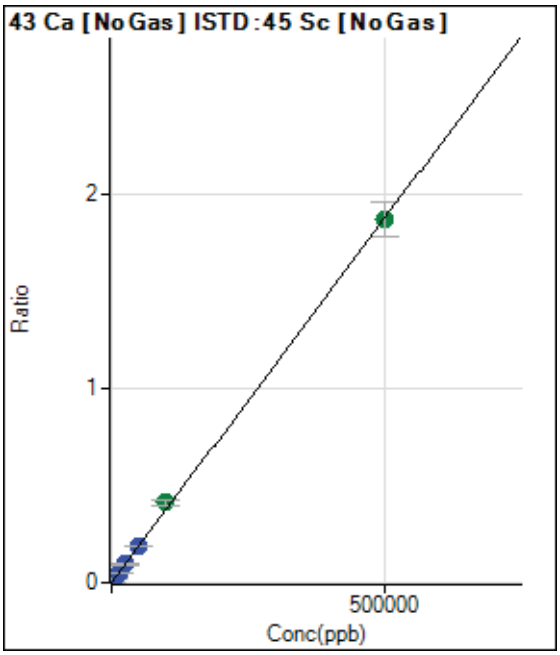
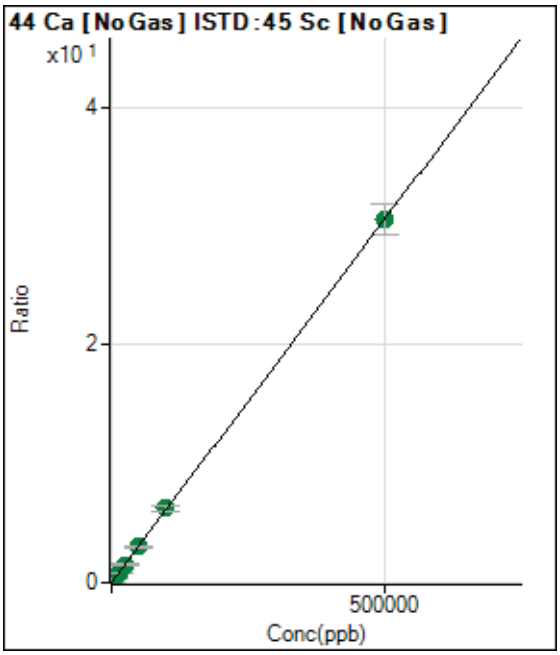


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	253.72	0.0001	P	3.7
2		500.000	432.127	7192.58	0.0017	P	3.4
3		5000.000	5468.159	81944.21	0.0205	P	6.7
4		12500.000	13663.418	194597.12	0.0512	P	8.1
5		25000.000	25147.023	369943.28	0.0942	P	2.0
6		50000.000	49372.763	722149.27	0.1850	P	2.2
7		100000.00	110031.79	1560345.02	0.4122	A	7.6
8		500000.00	498015.31	6736010.51	1.8654	A	9.4

y = 3.7455E-006 * x + 5.8285E-005
R = 0.9998
DL = 1.72
BEC = 15.56

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	28454.41	0.0065	P	1.1
2		500.000	436.588	142327.06	0.0332	P	2.8
3		5000.000	5378.982	1336026.05	0.3348	A	6.2
4		12500.000	13409.951	3133769.30	0.8249	A	7.8
5		25000.000	24830.132	5973834.85	1.5218	A	1.9
6		50000.000	49487.637	11814656.83	3.0266	A	2.6
7		100000.00	102022.80	23600225.42	6.2326	A	6.7
8		500000.00	499628.69	110160001.0	30.4969	A	8.6

y = 6.1026E-005 * x + 0.0065
R = 1.0000
DL = 3.611
BEC = 107.1

Weight: <None>
Min Conc: 0

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On:7/14/2023 8:48:56 AM
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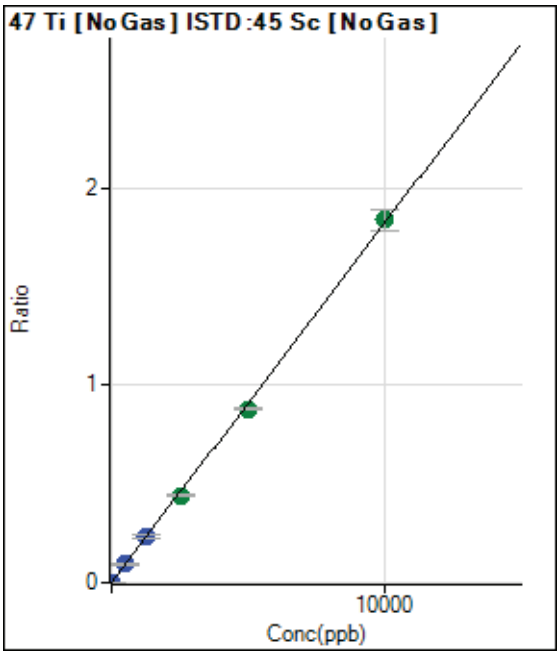
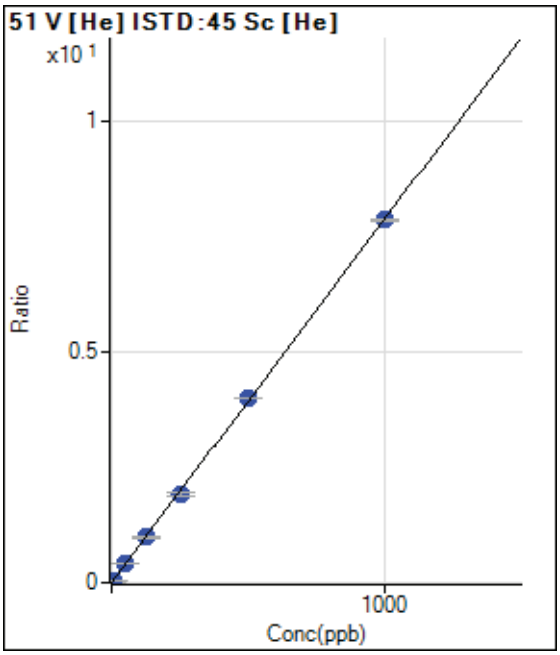


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	175.00	0.0000	P	20.3
2		5.000	4.483	3672.79	0.0009	P	1.4
3		500.000	512.003	371899.76	0.0932	P	6.1
4		1250.000	1291.335	892745.15	0.2350	P	7.6
5		2500.000	2425.947	1732609.85	0.4414	A	2.6
6		5000.000	4834.709	3434062.88	0.8796	A	1.8
7		10000.000	10095.392	6956230.54	1.8368	A	6.1
8				1897.54	0.0005	P	25.2

y = 1.8194E-004 * x + 4.0253E-005
R = 0.9997
DL = 0.1346
BEC = 0.2212

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.78	0.0001	P	29.2
2		5.000	4.719	5466.65	0.0373	P	2.5
3		50.000	51.464	56796.67	0.4056	P	1.7
4		125.000	125.873	133415.73	0.9919	P	2.7
5		250.000	243.276	255284.44	1.9170	P	5.0
6		500.000	506.333	517232.80	3.9898	P	0.0
7		1000.000	998.334	1054808.79	7.8665	P	0.8
8				374.45	0.0028	P	9.0

y = 0.0079 * x + 1.1955E-004
R = 0.9999
DL = 0.01331
BEC = 0.01517

Weight: <None>
Min Conc: 0

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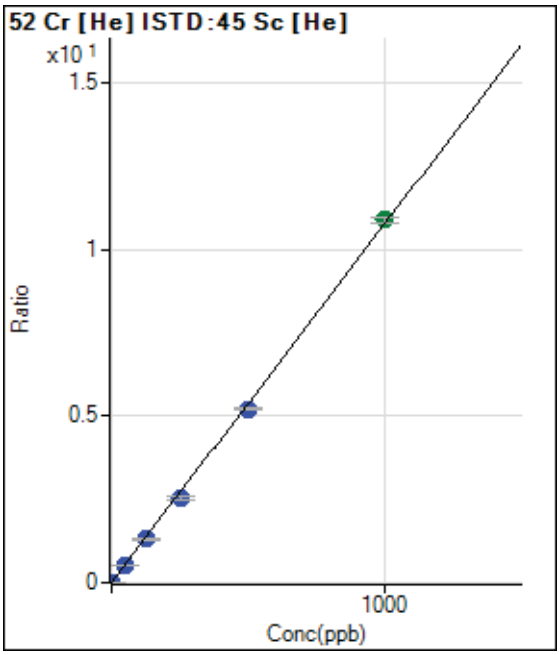
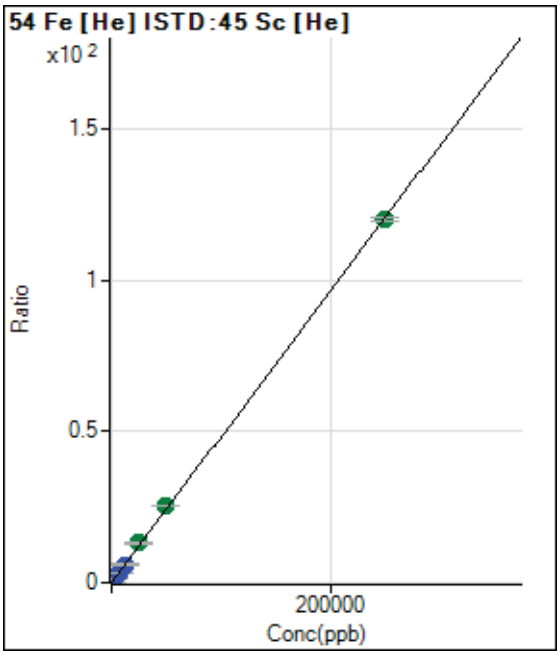


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1118.94	0.0075	P	9.7
2		2.000	1.921	4127.31	0.0282	P	1.2
3		50.000	49.532	75570.68	0.5397	P	2.2
4		125.000	120.875	175715.62	1.3063	P	2.0
5		250.000	233.952	335781.26	2.5214	P	4.8
6		500.000	485.060	676653.93	5.2195	P	0.2
7		1000.000	1012.021	1459095.62	10.8818	A	1.8
8				8626.01	0.0645	P	2.3

y = 0.0107 * x + 0.0075
R = 0.9997
DL = 0.2034
BEC = 0.6998

Weight: <None>
Min Conc: 0

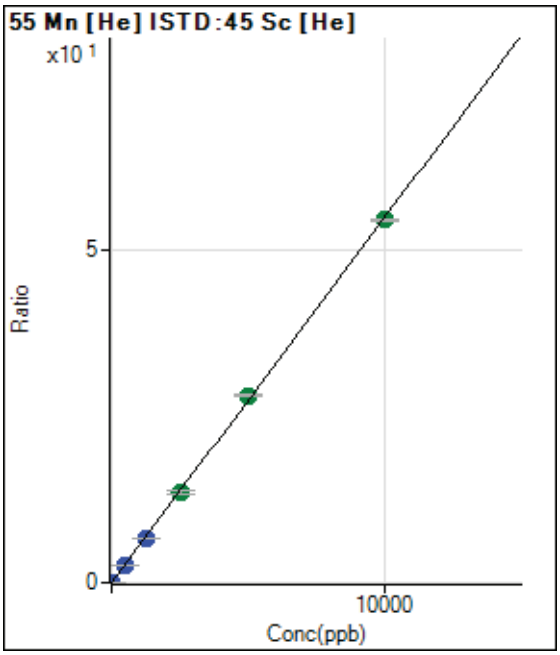


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	357.42	0.0024	P	11.6
2		50.000	49.879	3867.26	0.0264	P	4.2
3		2500.000	2599.697	175449.70	1.2531	P	1.7
4		6250.000	6472.075	419110.56	3.1160	P	1.4
5		12500.000	12386.491	793936.68	5.9613	P	4.6
6		25000.000	27210.446	1697366.40	13.0928	A	1.2
7		50000.000	52569.437	3391448.60	25.2925	A	1.0
8		250000.00	249264.19	16049717.60	119.9183	A	0.9

y = 4.8108E-004 * x + 0.0024
R = 0.9999
DL = 1.735
BEC = 4.99

Weight: <None>
Min Conc: 0

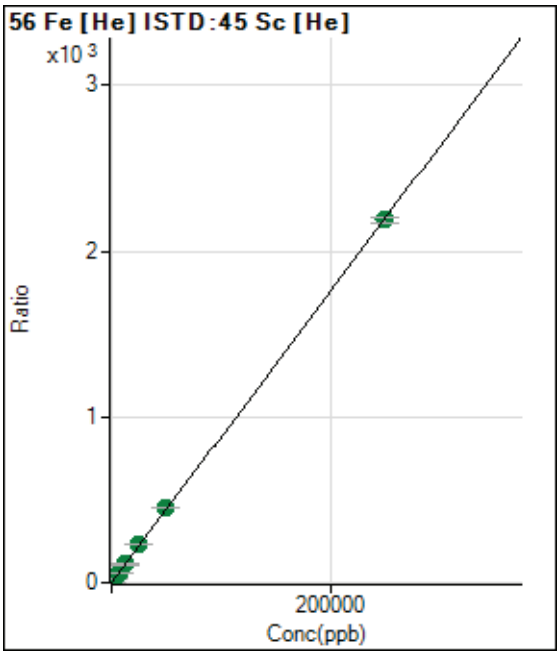
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	43.33	0.0003	P	27.4
2		1.000	0.911	773.36	0.0053	P	6.3
3		500.000	496.242	380129.22	2.7148	P	1.6
4		1250.000	1218.768	896747.82	6.6672	P	1.8
5		2500.000	2479.645	1806531.14	13.5644	A	5.0
6		5000.000	5135.452	3641977.27	28.0922	A	1.4
7		10000.000	9941.455	7292849.34	54.3819	A	0.5
8				5393.30	0.0403	P	1.4

y = 0.0055 * x + 2.9084E-004
R = 0.9999
DL = 0.04366
BEC = 0.05317

Weight: <None>
Min Conc: 0

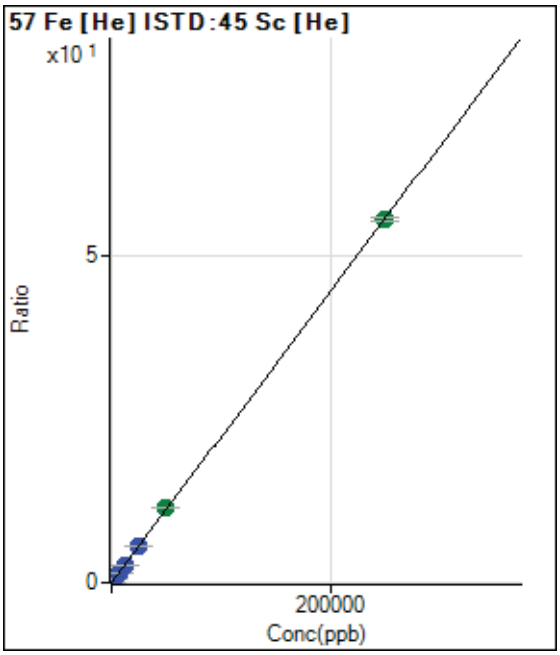


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2748.46	0.0185	P	1.6
2		50.000	48.086	64512.12	0.4402	P	2.0
3		2500.000	2721.331	3344776.52	23.8871	A	0.8
4		6250.000	6653.382	7851581.48	58.3750	A	1.2
5		12500.000	12763.257	14914576.49	111.9644	A	3.9
6		25000.000	26266.094	29867877.98	230.3971	A	1.0
7		50000.000	51507.907	60582020.80	451.7918	A	2.0
8		250000.00	249546.34	292932439.8	2,188.777	A	1.5

y = 0.0088 * x + 0.0185
R = 1.0000
DL = 0.09814
BEC = 2.105

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	120.37	0.0008	P	30.6
2		50.000	46.777	1646.42	0.0112	P	4.7
3		2500.000	2552.326	79748.26	0.5696	P	2.3
4		6250.000	6306.192	189130.31	1.4060	P	1.4
5		12500.000	12080.754	358579.58	2.6928	P	5.2
6		25000.000	25129.953	726052.24	5.6006	P	0.6
7		50000.000	51912.531	1551287.06	11.5686	A	0.8
8		250000.00	249623.53	7444441.37	55.6251	A	1.1

y = 2.2283E-004 * x + 8.0953E-004

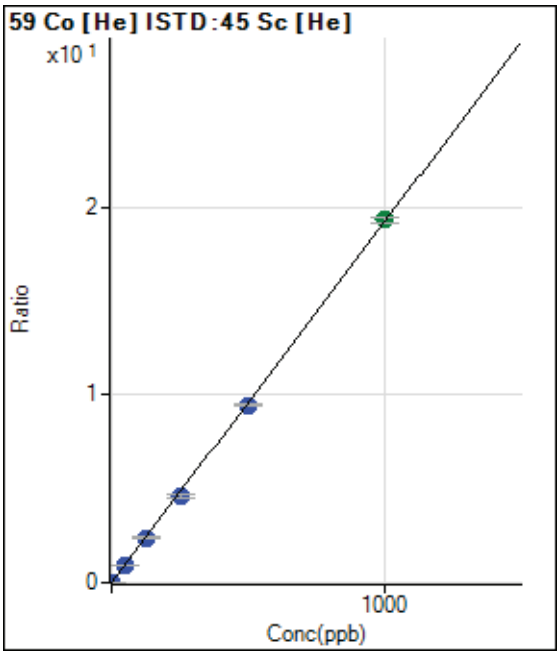
R = 1.0000

DL = 3.331

BEC = 3.633

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	51.11	0.0003	P	20.5
2		1.000	0.957	2744.74	0.0187	P	0.5
3		50.000	50.154	134951.06	0.9638	P	1.6
4		125.000	125.227	323597.15	2.4059	P	1.5
5		250.000	239.192	611853.25	4.5951	P	5.4
6		500.000	493.158	1228150.57	9.4736	P	0.6
7		1000.000	1006.087	2591334.82	19.3266	A	1.9
8				6103.58	0.0456	P	0.6

y = 0.0192 * x + 3.4311E-004

R = 0.9999

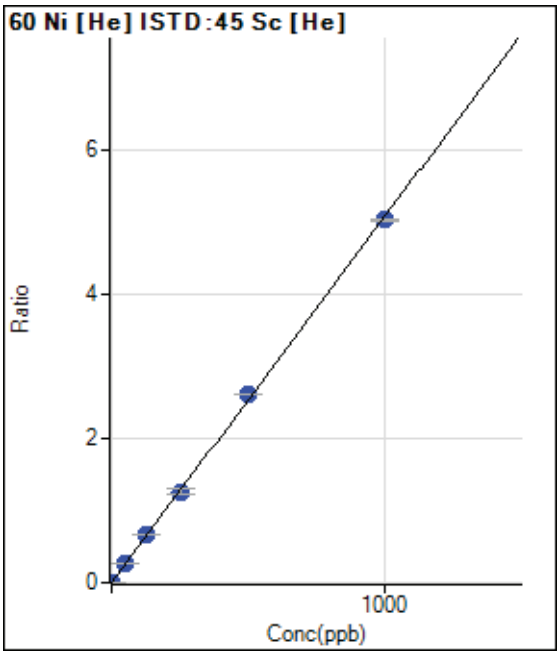
DL = 0.01096

BEC = 0.01786

Weight: <None>

Min Conc: 0

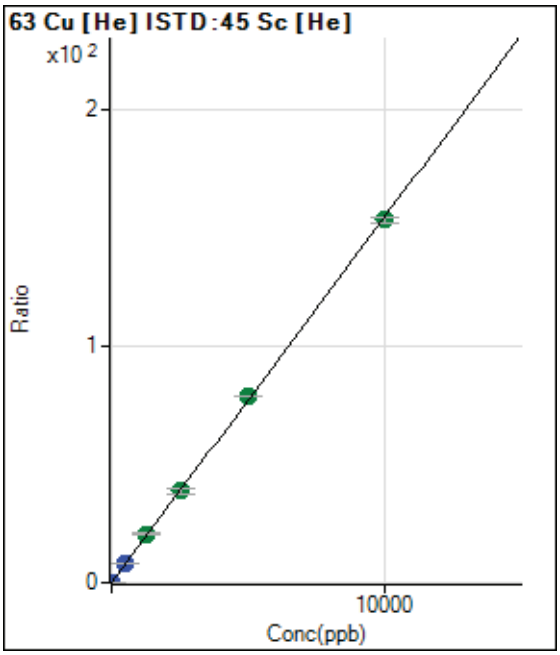
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	46.67	0.0003	P	19.1
2		1.000	1.108	870.04	0.0059	P	4.1
3		50.000	53.701	38209.02	0.2729	P	1.8
4		125.000	131.135	89563.16	0.6659	P	1.9
5		250.000	249.350	168566.02	1.2659	P	5.5
6		500.000	514.254	338421.53	2.6105	P	0.5
7		1000.000	992.083	675257.45	5.0359	P	0.7
8				3362.65	0.0251	P	3.2

y = 0.0051 * x + 3.1358E-004
R = 0.9998
DL = 0.03546
BEC = 0.06178

Weight: <None>
Min Conc: 0

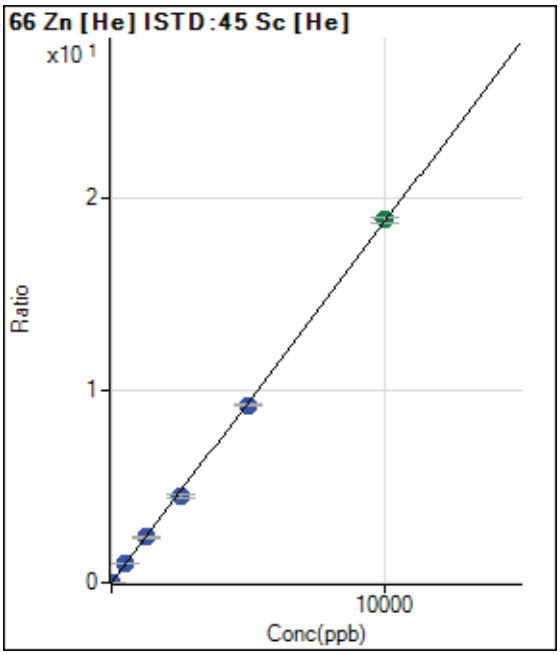


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	486.68	0.0033	P	13.6
2		2.000	1.866	4703.05	0.0321	P	2.1
3		500.000	506.527	1095803.45	7.8262	P	1.5
4		1250.000	1326.137	2755233.88	20.4844	A	3.2
5		2500.000	2503.925	5149760.38	38.6743	A	5.4
6		5000.000	5120.236	10251899.99	79.0811	A	0.3
7		10000.000	9929.057	20561382.75	153.3493	A	1.4
8				7277.51	0.0544	P	0.8

y = 0.0154 * x + 0.0033
R = 0.9999
DL = 0.08633
BEC = 0.2117

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	130.00	0.0009	P	3.1
2		2.000	2.231	741.13	0.0051	P	6.8
3		500.000	514.977	135465.48	0.9675	P	1.8
4		1250.000	1255.301	317041.67	2.3571	P	1.4
5		2500.000	2396.977	599312.34	4.5001	P	4.8
6		5000.000	4925.858	1198747.77	9.2469	P	0.4
7		10000.000	10061.415	2532381.87	18.8865	A	1.4
8				2828.08	0.0211	P	1.5

y = 0.0019 * x + 8.7341E-004

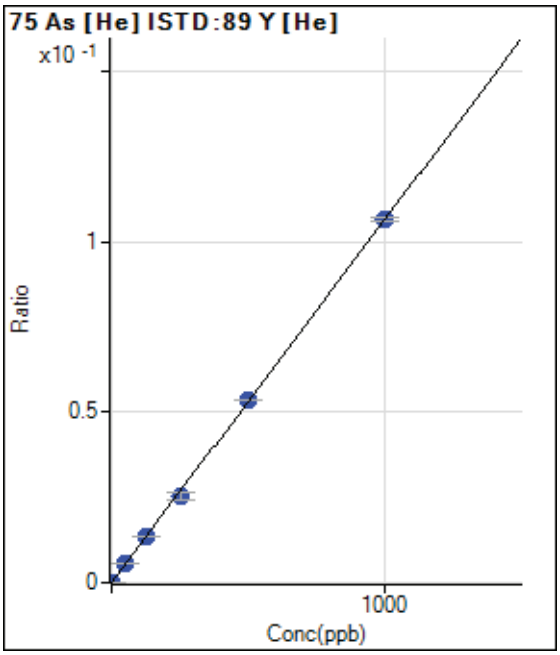
R = 0.9999

DL = 0.04371

BEC = 0.4653

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.67	0.0000	P	91.9
2		1.000	1.052	145.35	0.0001	P	11.7
3		50.000	52.675	6876.38	0.0056	P	2.0
4		125.000	127.998	16015.34	0.0136	P	1.6
5		250.000	240.627	30547.58	0.0256	P	9.3
6		500.000	502.940	61851.86	0.0535	P	0.6
7		1000.000	1000.365	126555.21	0.1064	P	1.1
8				58.68	0.0000	P	22.7

y = 1.0633E-004 * x + 1.3078E-006

R = 0.9999

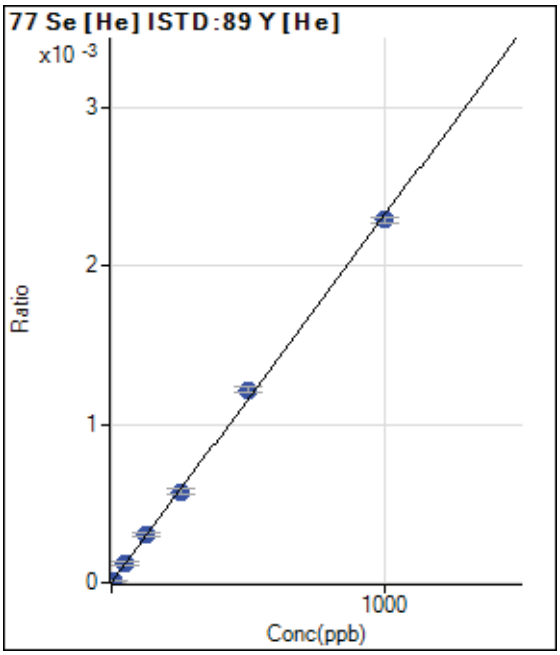
DL = 0.0339

BEC = 0.0123

Weight: <None>

Min Conc: 0

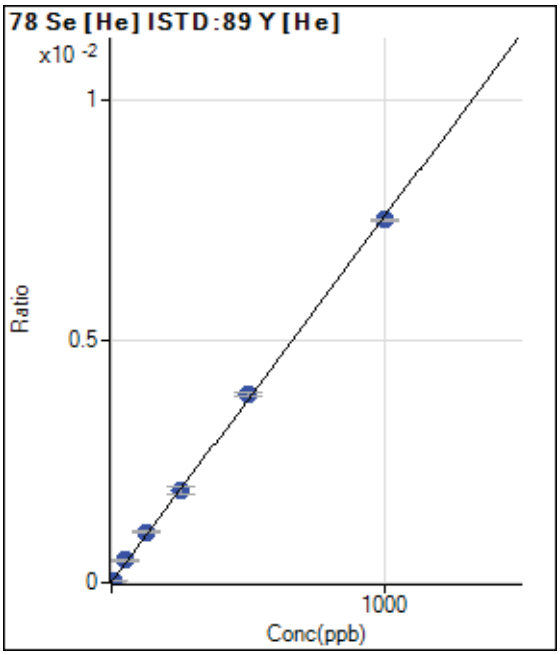
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1.11	0.0000	P	173.
2		5.000	4.478	14.44	0.0000	P	35.8
3		50.000	52.489	151.12	0.0001	P	21.8
4		125.000	130.787	357.79	0.0003	P	10.8
5		250.000	247.575	687.80	0.0006	P	5.8
6		500.000	525.330	1410.09	0.0012	P	3.2
7		1000.000	987.096	2724.74	0.0023	P	1.3
8				13.33	0.0000	P	24.6

y = 2.3191E-006 * x + 8.7432E-007
R = 0.9995
DL = 1.959
BEC = 0.377

Weight: <None>
Min Conc: 0

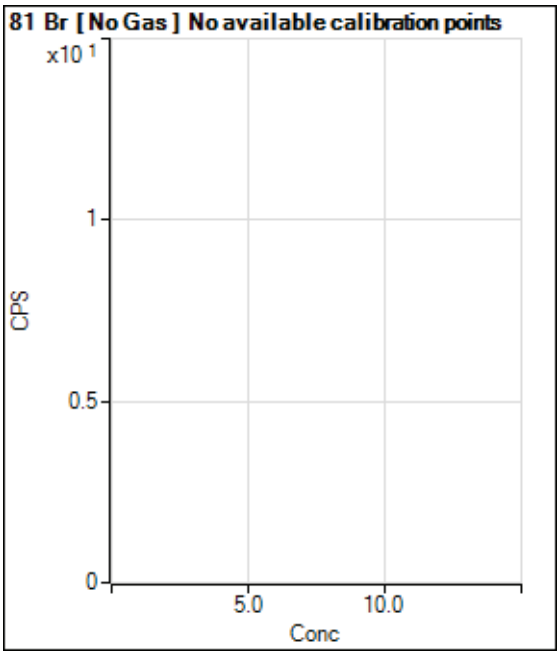


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14.33	0.0000	P	17.4
2		5.000	4.761	60.68	0.0000	P	18.3
3		50.000	59.240	563.74	0.0005	P	7.2
4		125.000	137.081	1234.18	0.0010	P	2.9
5		250.000	250.451	2277.42	0.0019	P	8.9
6		500.000	513.939	4512.85	0.0039	P	1.8
7		1000.000	990.947	8939.08	0.0075	P	0.6
8				69.68	0.0001	P	27.9

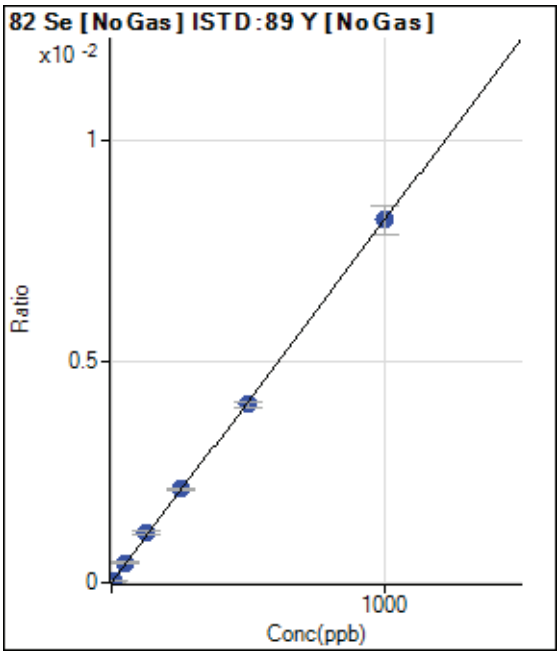
y = 7.5705E-006 * x + 1.1230E-005
R = 0.9998
DL = 0.7727
BEC = 1.483

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				4448.05		P	2.8
2				4359.13		P	4.5
3				4164.61		P	1.7
4				4006.24		P	4.2
5				3642.23		P	1.2
6				3442.18		P	6.4
7				3036.52		P	4.3
8				6890.81		P	16.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	17.91	0.0000	P	133.
2		5.000	4.764	480.38	0.0000	P	9.6
3		50.000	55.470	5059.55	0.0005	P	8.4
4		125.000	138.267	12061.39	0.0011	P	7.0
5		250.000	258.057	23293.85	0.0021	P	2.7
6		500.000	491.094	44487.68	0.0040	P	2.5
7		1000.000	1000.508	88921.33	0.0082	P	7.6
8				461.63	0.0000	P	11.5

y = 8.2046E-006 * x + 1.4905E-006

R = 0.9998

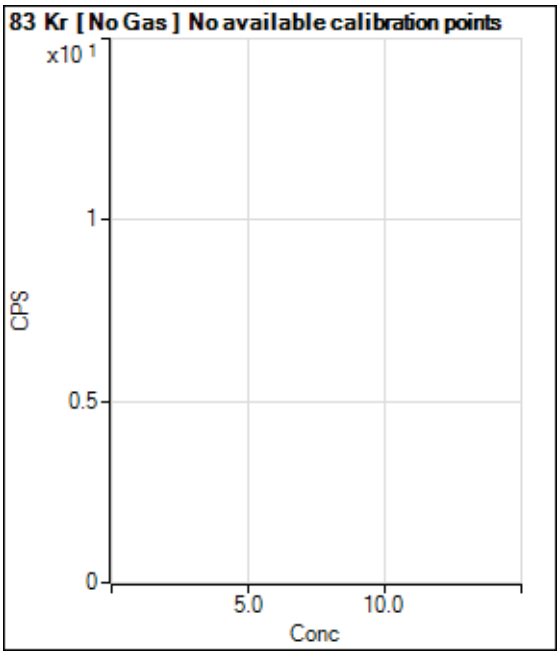
DL = 0.73

BEC = 0.1817

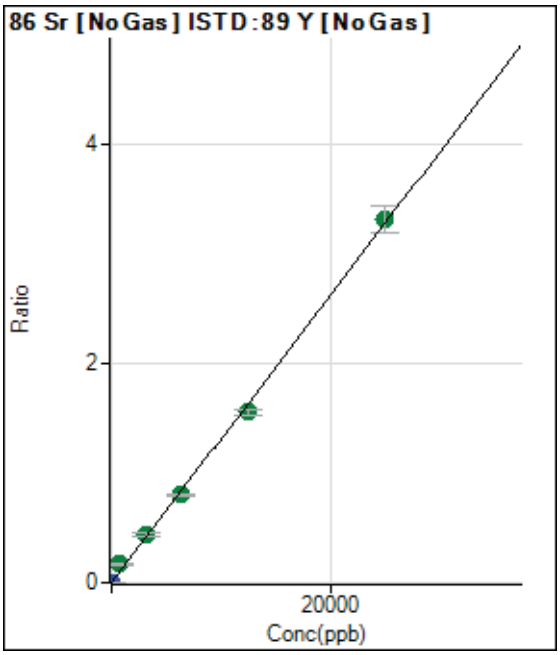
Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				230.39		P	11.8
2				244.97		P	5.4
3				244.97		P	1.4
4				238.30		P	1.1
5				247.47		P	8.9
6				231.22		P	2.5
7				232.47		P	4.6
8				236.22		P	7.4

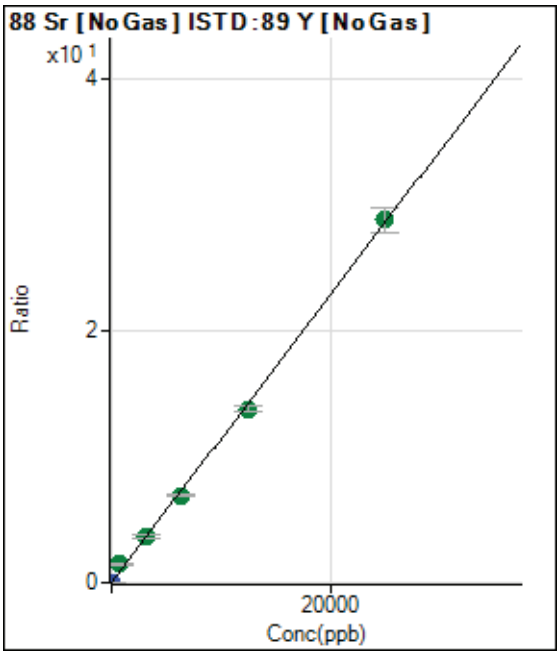


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	450.02	0.0000	P	7.5
2		1.000	0.864	1775.16	0.0001	P	1.3
3		625.000	1300.834	1883127.97	0.1699	A	7.6
4		3125.000	3329.086	4613793.07	0.4349	A	8.8
5		6250.000	6125.626	8796843.42	0.8001	A	2.5
6		12500.000	11885.792	17132254.72	1.5525	A	3.3
7		25000.000	25295.791	35787979.96	3.3039	A	7.3
8				10237.76	0.0010	P	10.3

y = 1.3061E-004 * x + 3.7081E-005
R = 0.9991
DL = 0.06414
BEC = 0.2839

Weight: <None>
Min Conc: 0

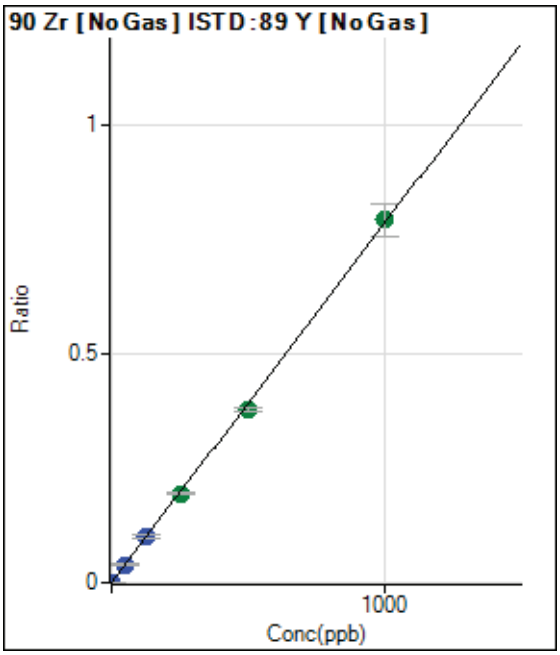
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	788.93	0.0001	P	21.7
2		1.000	0.904	12992.48	0.0011	P	3.6
3		625.000	1277.881	16171663.03	1.4592	A	7.5
4		3125.000	3234.830	39199335.95	3.6936	A	8.6
5		6250.000	6072.428	76217399.62	6.9336	A	3.6
6		12500.000	12049.721	151835599.2	13.7585	A	3.2
7		25000.000	25239.482	312222651.4	28.8187	A	6.9
8				75894.10	0.0072	P	16.8

y = 0.0011 * x + 6.4918E-005
R = 0.9993
DL = 0.03699
BEC = 0.05686

Weight: <None>
Min Conc: 0

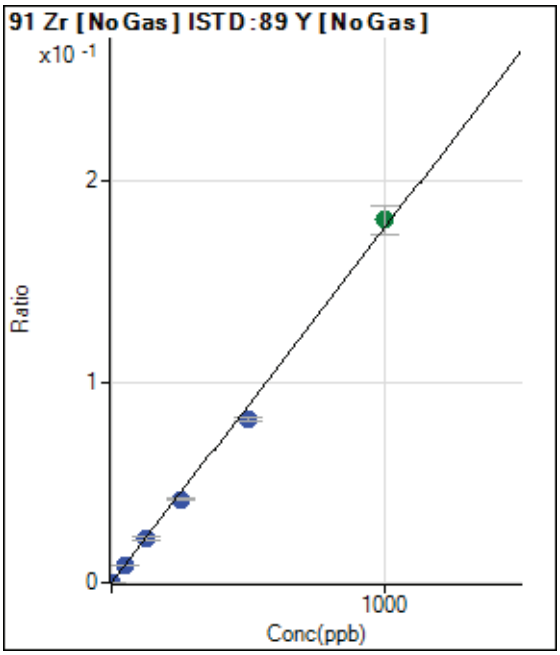


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	452.80	0.0000	P	3.3
2		1.000	0.802	7919.14	0.0007	P	9.3
3		50.000	49.731	434056.38	0.0392	P	6.9
4		125.000	126.812	1059009.83	0.0998	P	8.4
5		250.000	247.429	2140380.41	0.1947	A	2.4
6		500.000	481.359	4180522.06	0.3787	A	2.9
7		1000.000	1009.750	8598622.33	0.7943	A	8.8
8				5023.34	0.0005	P	8.1

y = 7.8663E-004 * x + 3.7318E-005
R = 0.9997
DL = 0.004753
BEC = 0.04744

Weight: <None>
Min Conc: 0

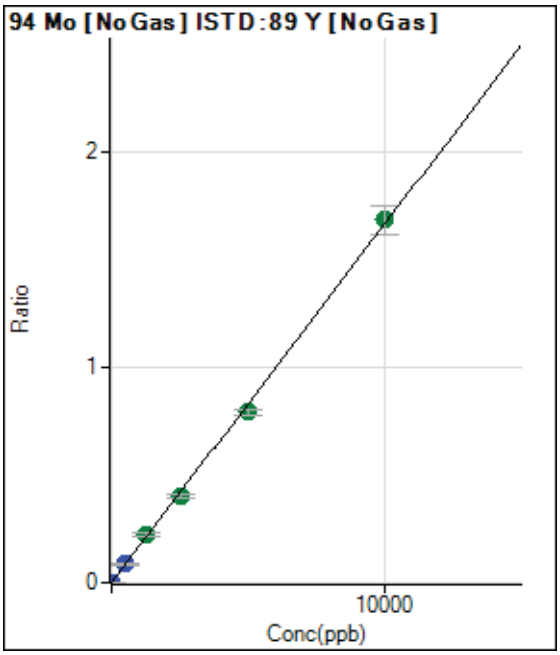
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.22	0.0000	P	57.1
2		1.000	0.816	1802.94	0.0002	P	7.4
3		50.000	49.482	96953.49	0.0088	P	8.0
4		125.000	125.772	236011.86	0.0222	P	7.6
5		250.000	234.074	454871.33	0.0414	P	1.9
6		500.000	460.982	899111.55	0.0815	P	2.5
7		1000.000	1023.420	1958471.09	0.1808	A	7.8
8				1166.76	0.0001	P	3.3

y = 1.7670E-004 * x + 8.0205E-006
R = 0.9987
DL = 0.07771
BEC = 0.04539

Weight: <None>
Min Conc: 0

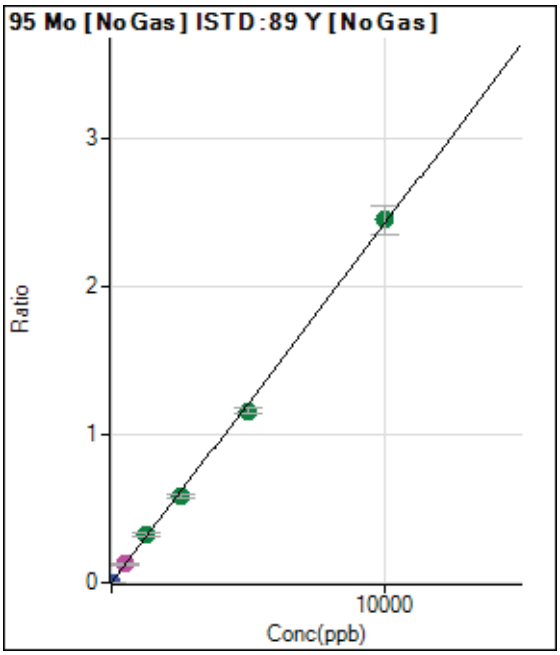


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	97.23	0.0000	P	39.3
2		5.000	5.135	10198.48	0.0009	P	3.1
3		500.000	514.489	947503.25	0.0855	P	7.6
4		1250.000	1338.814	2361455.72	0.2225	A	8.0
5		2500.000	2421.745	4424382.08	0.4025	A	3.2
6		5000.000	4765.724	8739875.11	0.7920	A	3.5
7		10000.000	10124.876	18219974.71	1.6826	A	8.0
8				7583.45	0.0007	P	12.0

y = 1.6618E-004 * x + 7.9901E-006
R = 0.9995
DL = 0.05667
BEC = 0.04808

Weight: <None>
Min Conc: 0

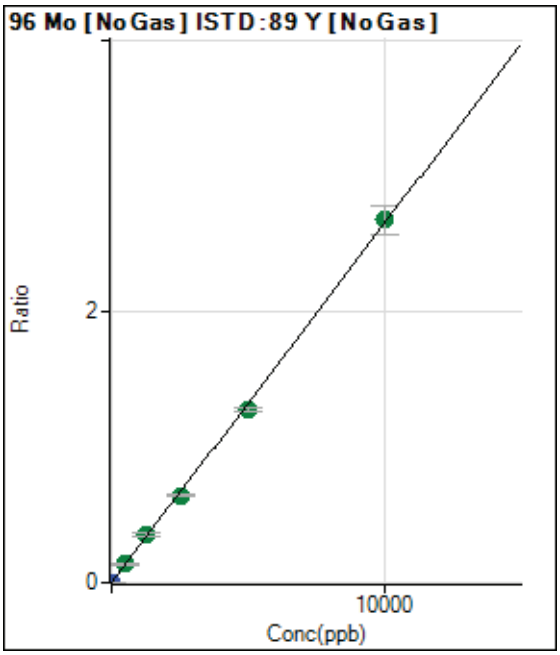
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	64.5
2		5.000	4.346	12492.05	0.0011	P	2.0
3		500.000	521.958	1402829.65	0.1265	M	5.9
4		1250.000	1331.530	3424512.99	0.3227	A	8.2
5		2500.000	2417.113	6439236.69	0.5857	A	3.1
6		5000.000	4793.704	12820952.98	1.1617	A	3.0
7		10000.000	10112.581	26540351.46	2.4506	A	7.8
8				9697.12	0.0009	P	7.1

y = 2.4233E-004 * x + 1.5982E-006
R = 0.9996
DL = 0.01275
BEC = 0.006595

Weight: <None>
Min Conc: 0

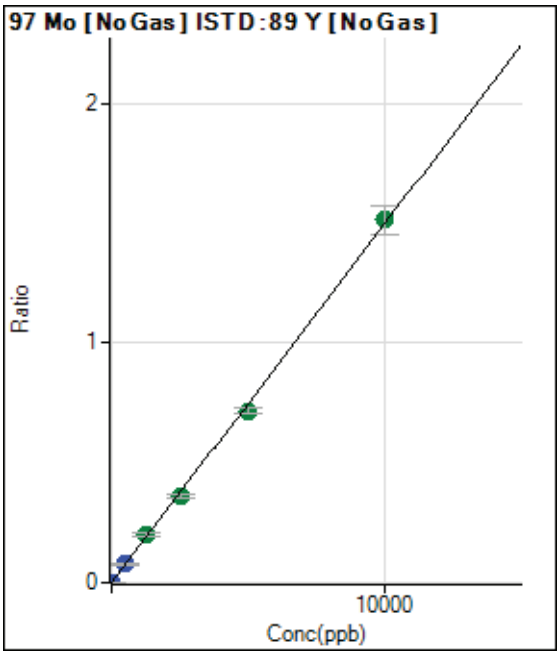


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	52.6
2		5.000	4.424	13951.80	0.0012	P	1.5
3		500.000	526.939	1546705.06	0.1396	A	7.5
4		1250.000	1331.101	3741091.10	0.3526	A	8.6
5		2500.000	2424.997	7061547.99	0.6423	A	2.6
6		5000.000	4813.106	14069251.88	1.2748	A	2.9
7		10000.000	10100.714	28974517.66	2.6753	A	7.7
8				11468.58	0.0011	P	8.8

y = 2.6486E-004 * x + 6.4040E-006
R = 0.9996
DL = 0.03812
BEC = 0.02418

Weight: <None>
Min Conc: 0

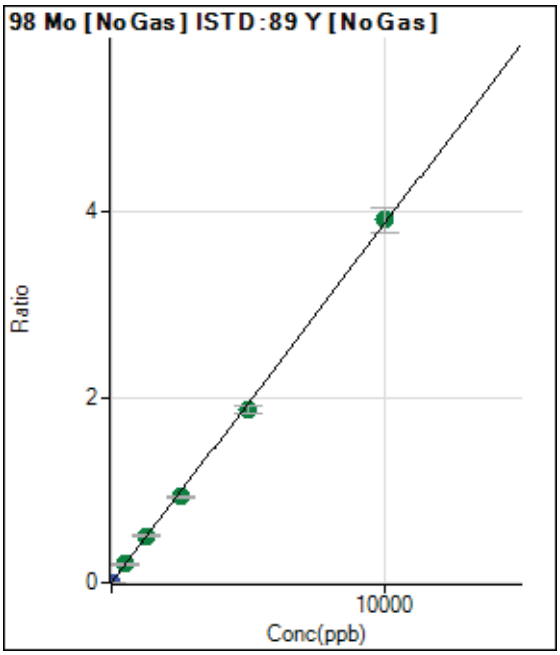
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	13.89	0.0000	P	173.
2		5.000	4.289	7618.97	0.0006	P	2.1
3		500.000	515.462	855123.19	0.0772	P	8.2
4		1250.000	1323.875	2103208.38	0.1983	A	9.0
5		2500.000	2413.645	3973036.85	0.3614	A	3.9
6		5000.000	4788.550	7914238.37	0.7171	A	2.9
7		10000.000	10117.307	16408439.60	1.5151	A	7.7
8				6179.89	0.0006	P	7.9

y = 1.4975E-004 * x + 1.1623E-006
R = 0.9996
DL = 0.04033
BEC = 0.007762

Weight: <None>
Min Conc: 0

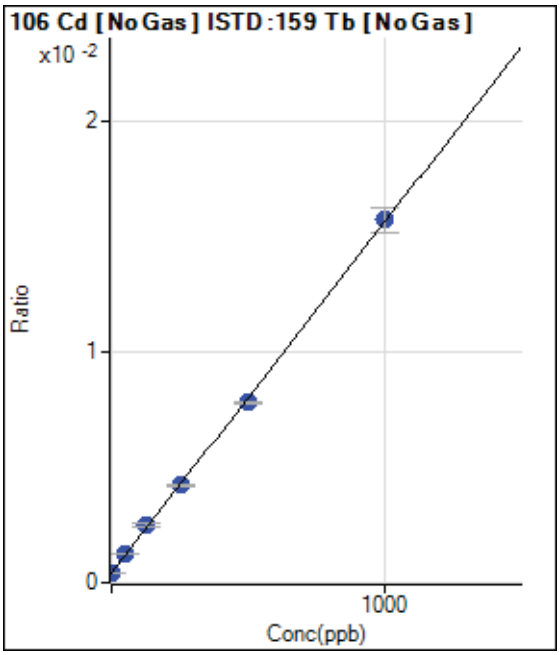


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	41.67	0.0000	P	52.7
2		5.000	4.403	20254.15	0.0017	P	3.8
3		500.000	524.856	2254053.00	0.2035	A	8.4
4		1250.000	1309.056	5387929.72	0.5075	A	7.6
5		2500.000	2399.565	10227669.85	0.9304	A	3.1
6		5000.000	4815.017	20600312.96	1.8669	A	3.8
7		10000.000	10108.976	42464659.98	3.9194	A	7.0
8				15731.31	0.0015	P	16.9

y = 3.8772E-004 * x + 3.4356E-006
R = 0.9996
DL = 0.01401
BEC = 0.008861

Weight: <None>
Min Conc: 0

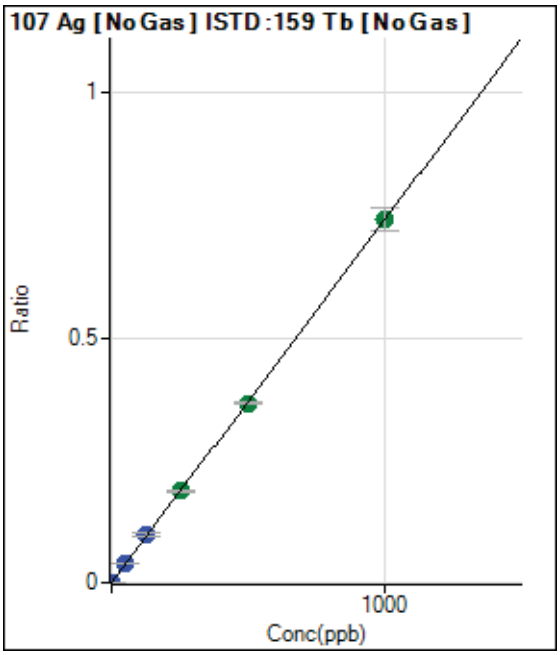
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	4056.27	0.0004	P	5.6
2		1.000	-0.389	4006.24	0.0004	P	8.5
3		50.000	51.945	10787.84	0.0012	P	2.3
4		125.000	137.207	21086.11	0.0025	P	7.8
5		250.000	249.627	36774.93	0.0042	P	1.9
6		500.000	484.423	68914.30	0.0078	P	1.8
7		1000.000	1006.260	136160.71	0.0157	P	6.9
8				3356.06	0.0004	P	4.0

y = 1.5172E-005 * x + 4.3926E-004
R = 0.9997
DL = 4.821
BEC = 28.95

Weight: <None>
Min Conc: 0

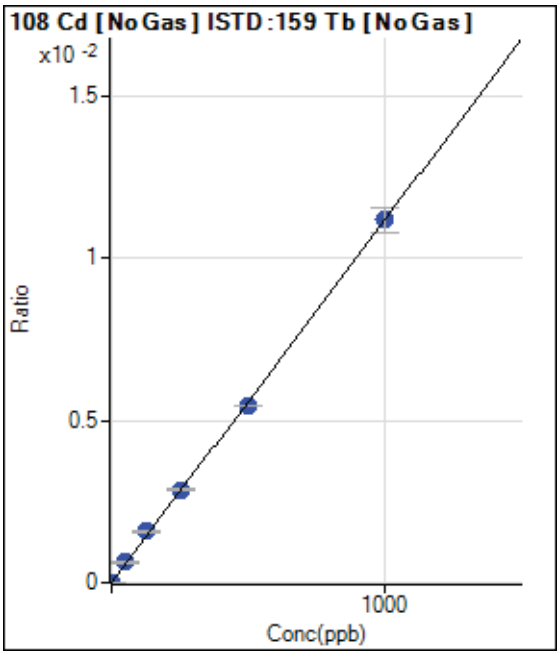


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	77.78	0.0000	P	41.0
2		1.000	0.956	6621.19	0.0007	P	3.0
3		50.000	52.715	342870.51	0.0391	P	5.0
4		125.000	132.985	824751.23	0.0985	P	6.2
5		250.000	253.191	1632364.13	0.1876	A	2.2
6		500.000	495.488	3248248.51	0.3671	A	1.1
7		1000.000	1000.325	6426623.15	0.7412	A	6.4
8				1161.19	0.0001	P	17.4

y = 7.4091E-004 * x + 8.3755E-006
R = 0.9999
DL = 0.01392
BEC = 0.0113

Weight: <None>
Min Conc: 0

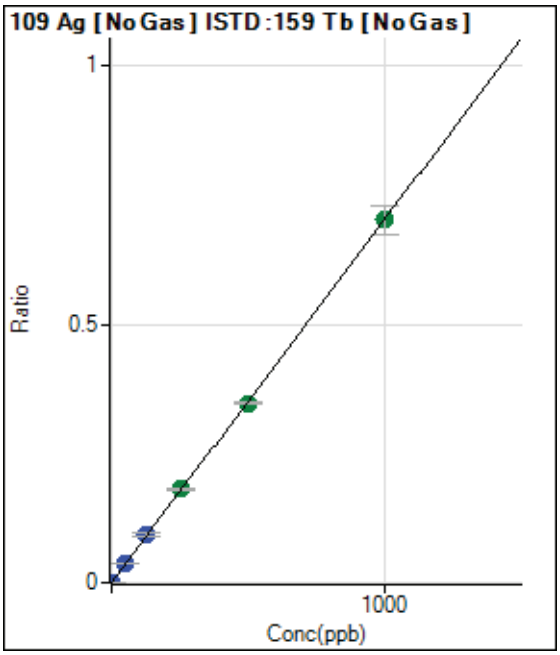
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	18.06	0.0000	P	13.9
2		1.000	0.981	119.45	0.0000	P	15.0
3		50.000	55.750	5478.93	0.0006	P	7.7
4		125.000	140.731	13178.68	0.0016	P	5.6
5		250.000	256.009	24900.42	0.0029	P	2.8
6		500.000	489.309	48387.62	0.0055	P	0.2
7		1000.000	1001.589	97036.29	0.0112	P	6.6
8				95.84	0.0000	P	7.8

y = 1.1172E-005 * x + 1.9565E-006
R = 0.9998
DL = 0.07316
BEC = 0.1751

Weight: <None>
Min Conc: 0

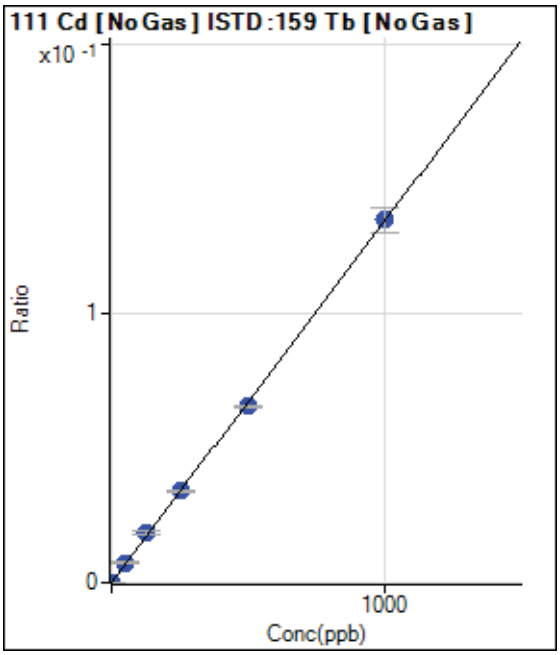


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	38.89	0.0000	P	33.3
2		1.000	0.934	6104.30	0.0007	P	2.9
3		50.000	52.232	321974.90	0.0367	P	6.6
4		125.000	133.677	785630.96	0.0939	P	8.1
5		250.000	258.033	1577344.48	0.1813	A	2.7
6		500.000	494.477	3074513.85	0.3475	A	0.8
7		1000.000	999.557	6086561.16	0.7024	A	8.1
8				1075.07	0.0001	P	10.0

y = 7.0267E-004 * x + 4.2142E-006
R = 0.9999
DL = 0.005998
BEC = 0.005997

Weight: <None>
Min Conc: 0

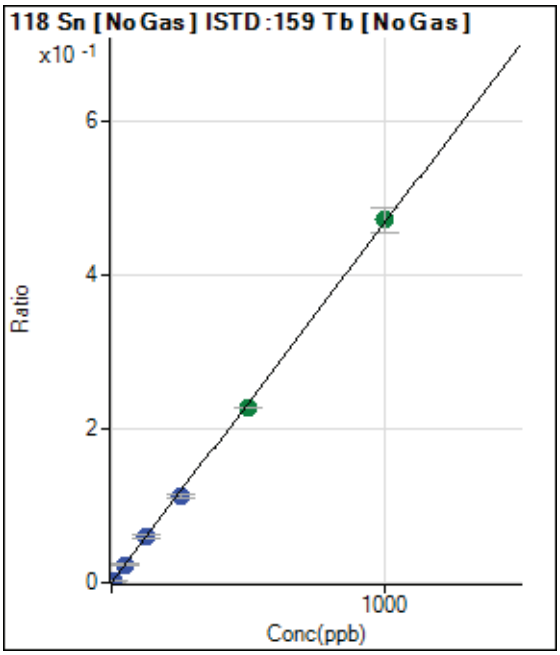
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	399.93	0.0000	P	4.8
2		1.000	0.910	1529.59	0.0002	P	5.0
3		50.000	54.070	64106.60	0.0073	P	5.5
4		125.000	138.137	155500.79	0.0186	P	8.5
5		250.000	253.951	297086.91	0.0341	P	2.6
6		500.000	487.127	579234.42	0.0655	P	1.1
7		1000.000	1003.603	1168861.51	0.1348	P	7.0
8				925.49	0.0001	P	5.3

y = 1.3430E-004 * x + 4.3302E-005
R = 0.9998
DL = 0.04613
BEC = 0.3224

Weight: <None>
Min Conc: 0

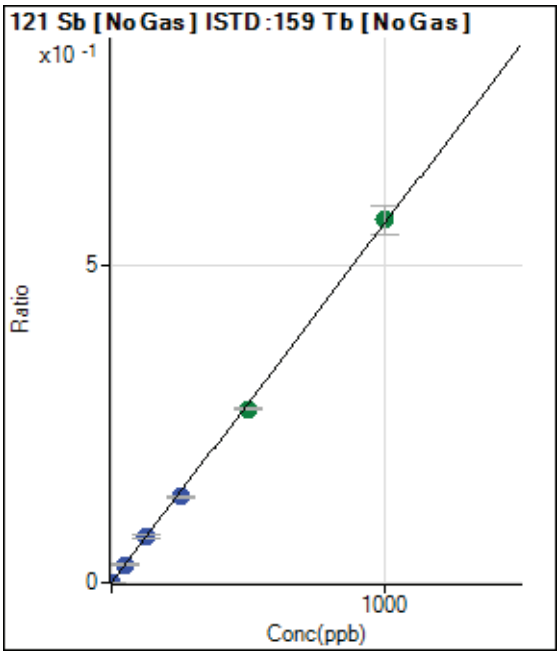


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1150.08	0.0001	P	5.9
2		5.000	4.367	19998.44	0.0022	P	1.4
3		50.000	50.468	207905.42	0.0237	P	6.2
4		125.000	128.767	503778.28	0.0603	P	9.7
5		250.000	241.551	982390.00	0.1130	P	4.1
6		500.000	485.149	2006356.34	0.2267	A	0.2
7		1000.000	1009.047	4087329.43	0.4715	A	6.9
8				3325.72	0.0004	P	1.0

y = 4.6711E-004 * x + 1.2451E-004
R = 0.9998
DL = 0.0468
BEC = 0.2666

Weight: <None>
Min Conc: 0

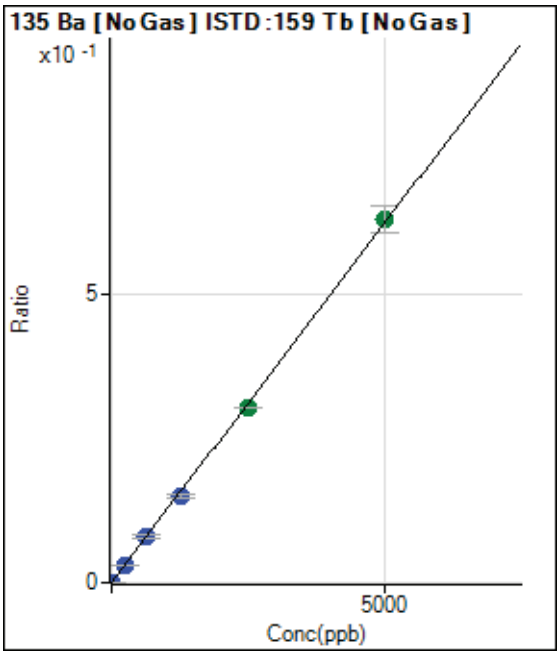
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	8.33	0.0000	P	98.7
2		2.000	1.772	9289.49	0.0010	P	4.4
3		50.000	49.584	246587.72	0.0281	P	6.8
4		125.000	127.626	605171.75	0.0724	P	8.2
5		250.000	239.823	1182853.35	0.1360	P	2.9
6		500.000	483.180	2423906.59	0.2740	A	1.1
7		1000.000	1010.647	4965539.91	0.5730	A	8.1
8				3156.07	0.0004	P	20.9

y = 5.6697E-004 * x + 8.9398E-007
R = 0.9997
DL = 0.004667
BEC = 0.001577

Weight: <None>
Min Conc: 0

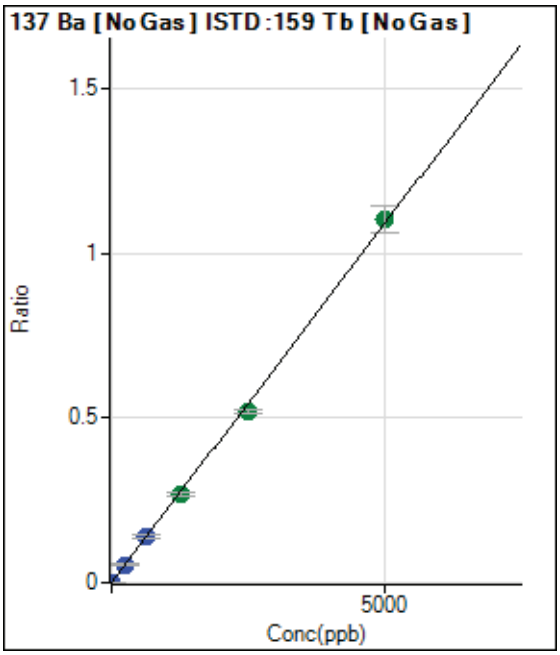


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.45	0.0000	P	8.7
2		10.000	8.678	10001.29	0.0011	P	3.8
3		250.000	246.750	269003.97	0.0306	P	4.8
4		625.000	638.835	663448.28	0.0793	P	8.4
5		1250.000	1205.523	1302285.81	0.1497	P	3.2
6		2500.000	2423.922	2663568.10	0.3010	A	0.1
7		5000.000	5047.594	5433437.58	0.6268	A	7.4
8				3792.41	0.0005	P	4.0

y = 1.2418E-004 * x + 4.8070E-006
R = 0.9998
DL = 0.01013
BEC = 0.03871

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	58.33	0.0000	P	15.6
2		10.000	9.221	18641.14	0.0020	P	6.2
3		250.000	249.862	478092.41	0.0545	P	5.4
4		625.000	645.538	1177185.99	0.1407	P	7.9
5		1250.000	1235.843	2343625.90	0.2694	A	3.5
6		2500.000	2391.120	4612181.27	0.5213	A	2.0
7		5000.000	5055.421	9553340.06	1.1022	A	7.5
8				6891.35	0.0008	P	6.7

y = 2.1802E-004 * x + 6.3265E-006

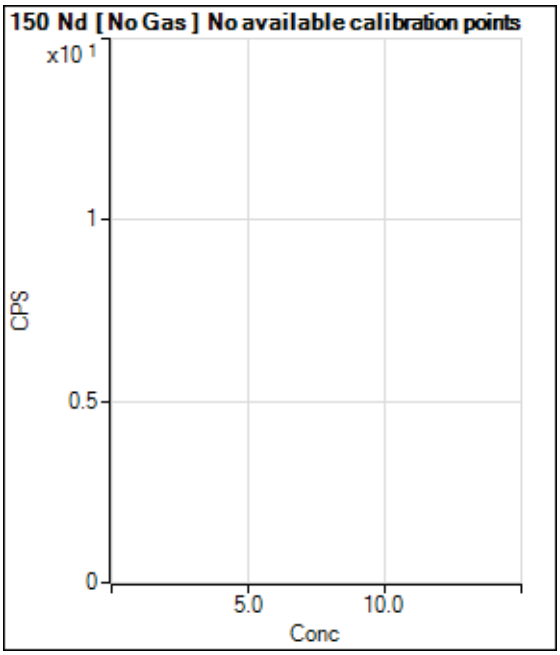
R = 0.9996

DL = 0.01361

BEC = 0.02902

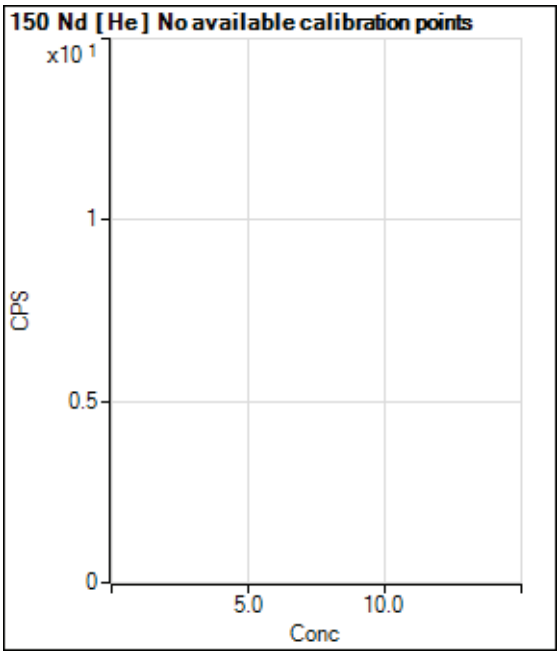
Weight: <None>

Min Conc: 0

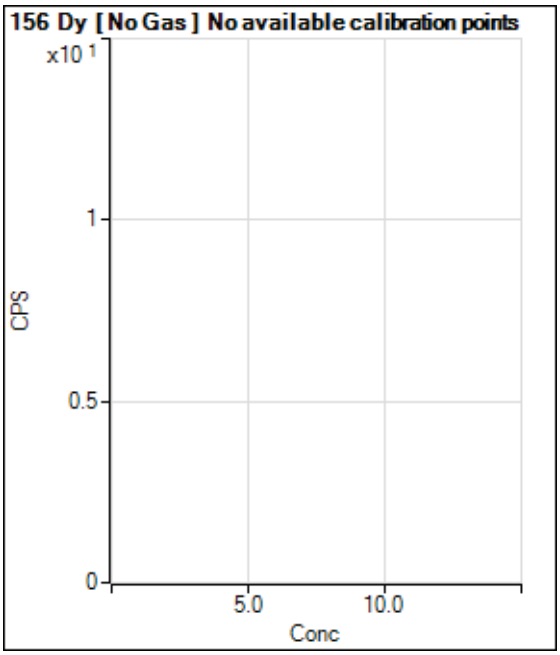


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				8.89		P	114.
2				15.55		P	24.8
3				24.44		P	31.5
4				71.11		P	46.3
5				102.23		P	7.5
6				177.78		P	13.2
7				320.01		P	9.5
8				200.01		P	NaN

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

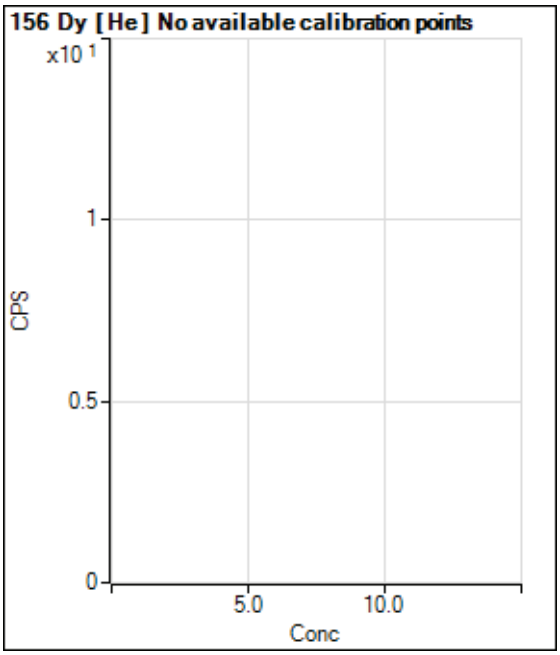


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	173.
2				3.33		P	0.0
3				4.44		P	43.4
4				8.89		P	21.6
5				10.00		P	33.3
6				12.22		P	15.7
7				48.89		P	19.7
8				53.33		P	33.1

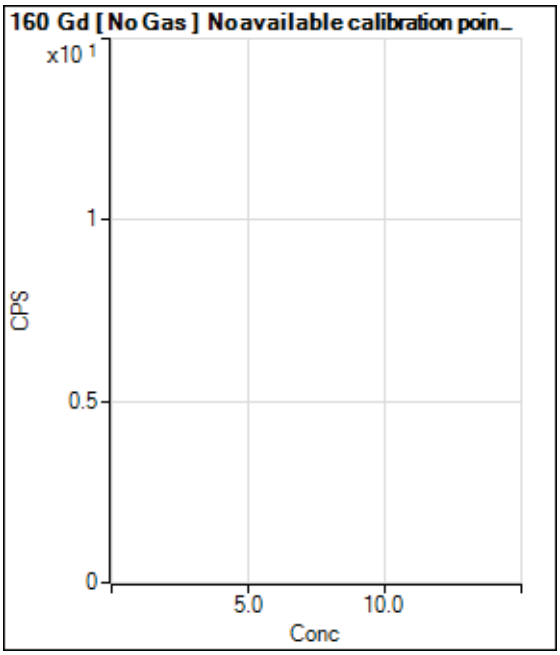


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				13.89		P	34.7
2				5.56		P	173.
3				19.45		P	24.7
4				86.12		P	24.4
5				111.11		P	11.5
6				175.01		P	36.0
7				363.90		P	25.7
8				1055.63		P	4.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	86.6
2				4.44		P	114.
3				10.00		P	66.7
4				26.67		P	45.1
5				32.22		P	6.0
6				77.78		P	17.8
7				180.00		P	18.8
8				497.79		P	0.4



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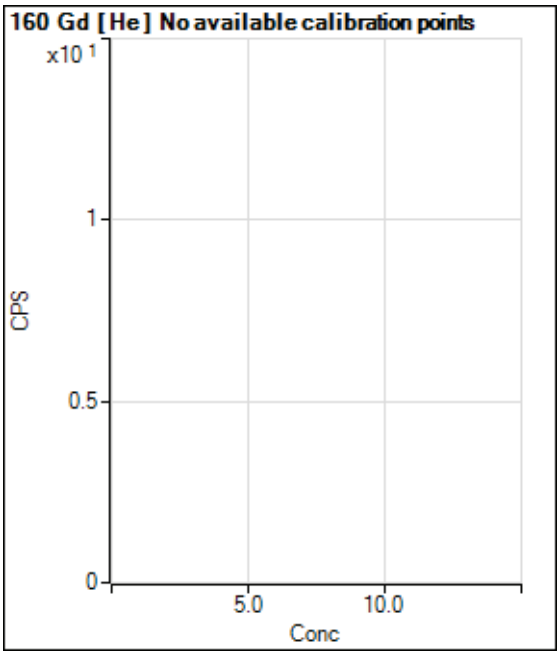
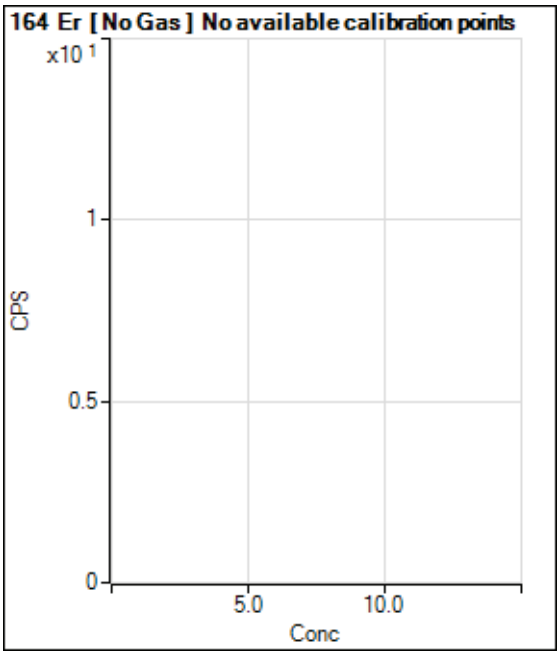
1				111.11		P	8.7
2				86.11		P	31.1
3				77.78		P	48.3
4				102.78		P	20.4
5				186.12		P	24.7
6				225.01		P	14.8
7				325.01		P	13.6
8				1183.42		P	10.2

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				130.00		P	9.2
2				100.00		P	23.3
3				114.45		P	8.9
4				161.12		P	12.1
5				147.78		P	14.7
6				196.67		P	11.1
7				291.12		P	15.8
8				796.70		P	9.1



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1				55.56		P	17.3
2				55.56		P	48.2
3				61.11		P	41.7
4				66.67		P	12.5
5				77.78		P	16.4
6				125.01		P	17.6
7				200.01		P	23.2
8				194.45		P	20.3

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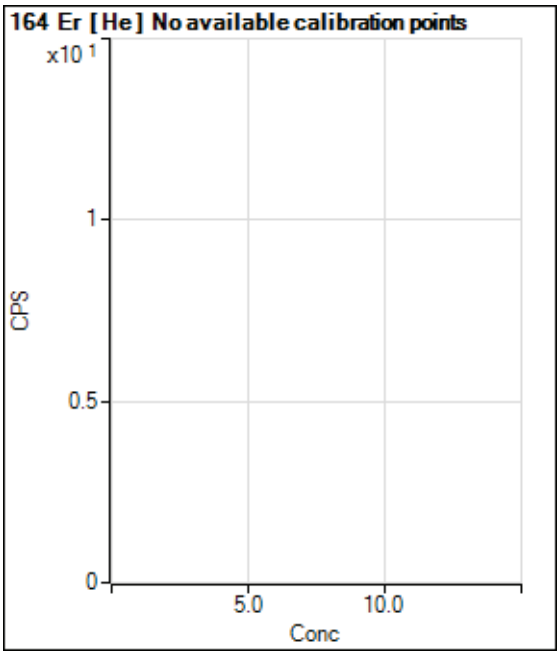
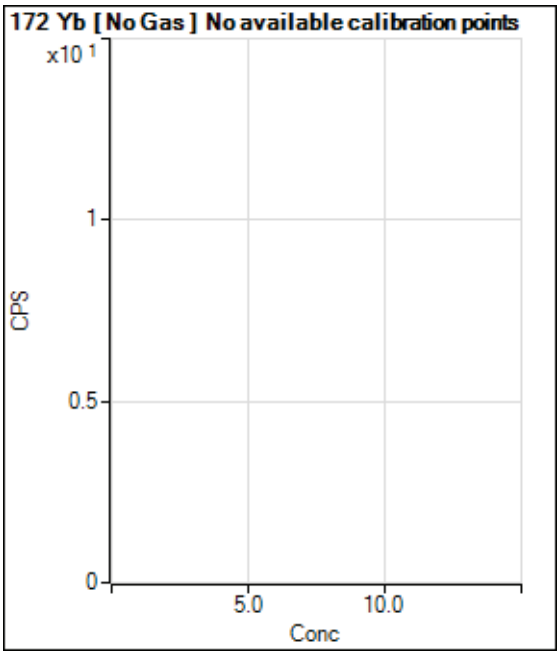
On:7/14/2023 8:48:56 AM
Inst Id :P8

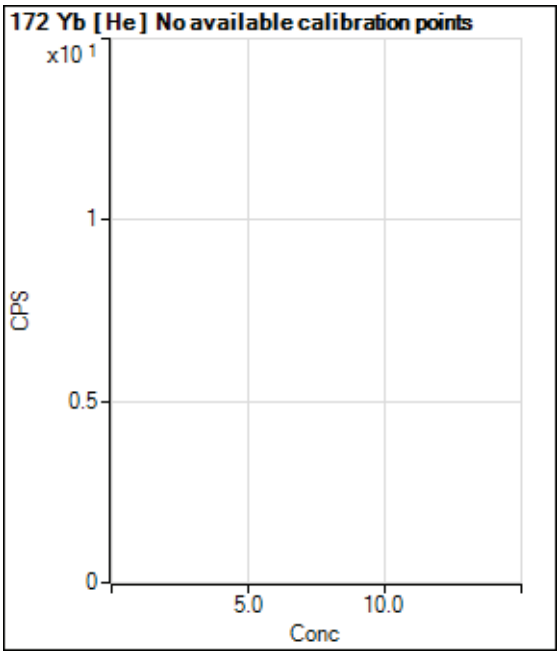


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				20.00		P	57.7
2				24.45		P	28.4
3				21.11		P	59.8
4				25.56		P	32.8
5				33.33		P	17.3
6				44.45		P	35.4
7				56.67		P	17.6
8				107.78		P	44.2

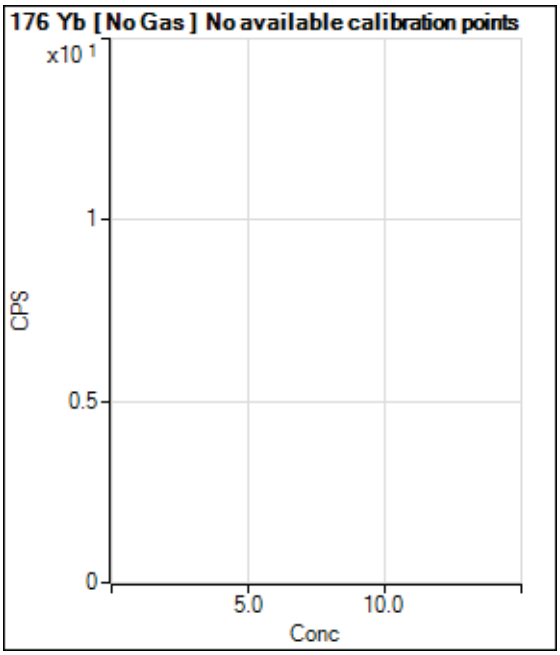


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				58.34		P	37.8
2				66.67		P	12.5
3				66.67		P	12.5
4				72.23		P	26.7
5				100.01		P	14.4
6				150.00		P	5.6
7				191.67		P	15.7
8				155.56		P	38.8

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

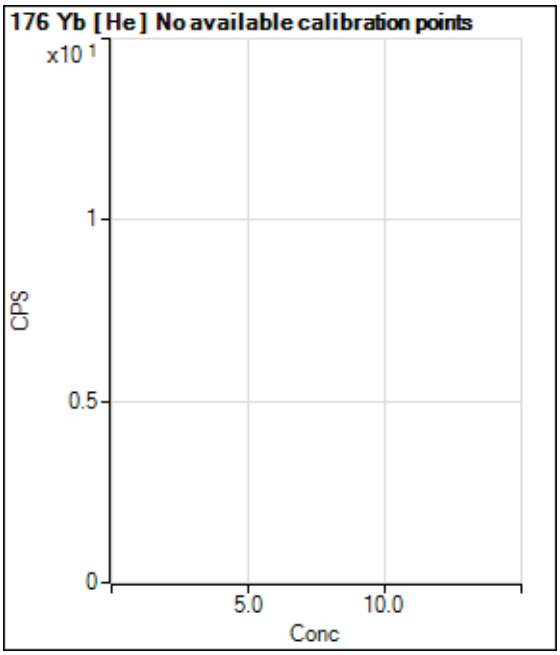


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				37.04		P	22.9
2				18.52		P	62.4
3				29.63		P	10.8
4				61.11		P	36.4
5				50.00		P	11.1
6				85.19		P	30.1
7				122.23		P	16.4
8				66.67		P	14.4

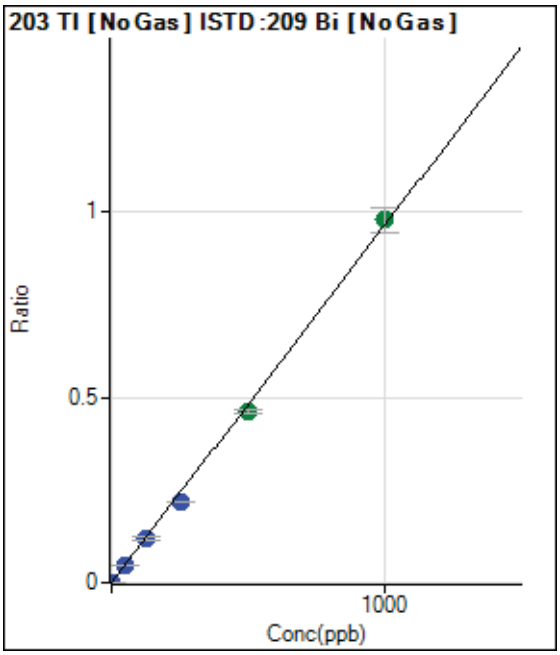


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1450.12		P	2.5
2				1450.13		P	14.5
3				2361.40		P	9.0
4				4248.01		P	4.8
5				7079.84		P	3.9
6				12828.78		P	3.5
7				25639.48		P	2.0
8				1391.78		P	11.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				10070.66		P	3.1
2				9731.51		P	4.5
3				9627.73		P	1.8
4				9879.79		P	1.0
5				11697.98		P	4.0
6				14224.54		P	1.4
7				19459.03		P	1.7
8				9679.61		P	1.5

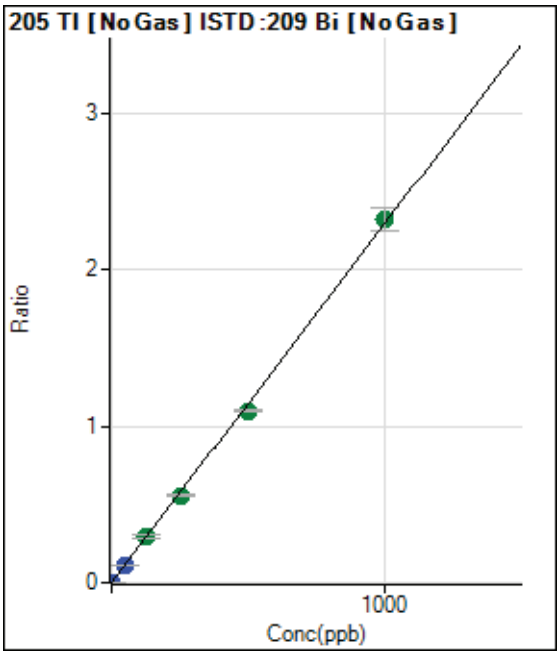


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.44	0.0000	P	22.0
2		1.000	0.841	5198.41	0.0008	P	4.5
3		50.000	48.050	278594.21	0.0463	P	8.5
4		125.000	123.877	694183.61	0.1192	P	7.0
5		250.000	226.963	1345888.70	0.2185	P	1.4
6		500.000	480.048	2840542.45	0.4620	A	2.1
7		1000.000	1015.973	5774780.03	0.9778	A	6.8
8				1614.06	0.0003	P	4.8

y = 9.6246E-004 * x + 6.9558E-006
R = 0.9994
DL = 0.004776
BEC = 0.007227

Weight: <None>
Min Conc: 0

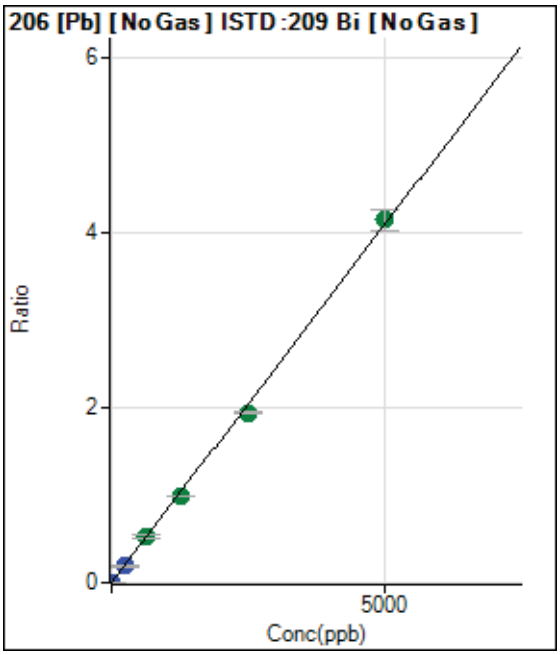
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	186.12	0.0000	P	16.6
2		1.000	0.883	13070.91	0.0021	P	1.2
3		50.000	47.993	662478.07	0.1101	P	9.8
4		125.000	130.521	1741112.63	0.2993	A	8.7
5		250.000	243.467	3439669.87	0.5582	A	0.5
6		500.000	478.942	6750475.50	1.0980	A	1.4
7		1000.000	1011.573	13698404.82	2.3191	A	6.5
8				4131.52	0.0008	P	5.4

y = 0.0023 * x + 2.9099E-005
R = 0.9996
DL = 0.006323
BEC = 0.01269

Weight: <None>
Min Conc: 0

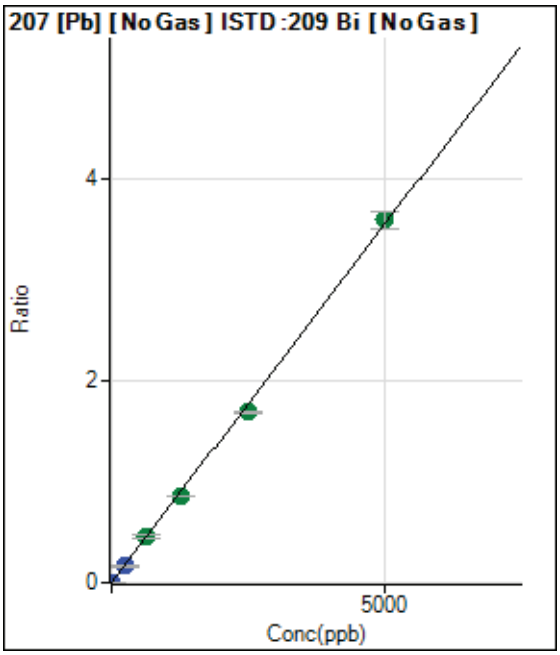


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	651.88	0.0001	P	8.2
2		1.000	0.849	5069.59	0.0008	P	1.3
3		250.000	234.630	1156358.40	0.1920	P	8.6
4		625.000	653.547	3112666.16	0.5346	A	6.8
5		1250.000	1210.719	6101427.05	0.9903	A	0.6
6		2500.000	2373.779	11935490.31	1.9414	A	1.4
7		5000.000	5070.131	24500926.01	4.1466	A	5.5
8				12600.47	0.0024	P	3.2

y = 8.1783E-004 * x + 1.0194E-004
R = 0.9995
DL = 0.03081
BEC = 0.1247

Weight: <None>
Min Conc: 0

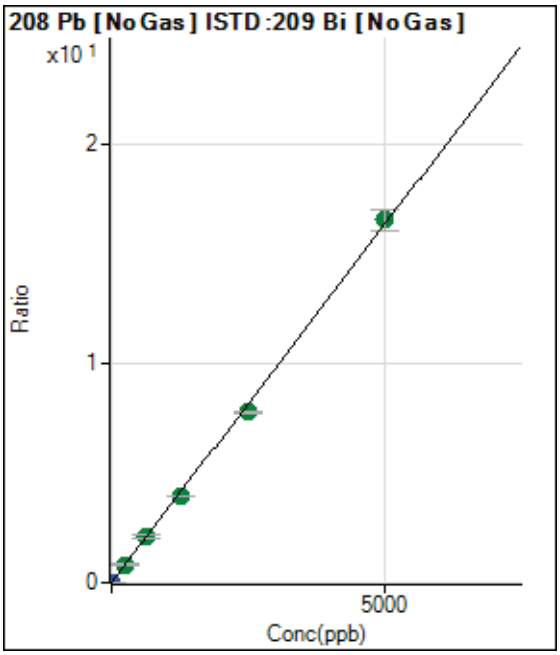
Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	557.43	0.0001	P	5.9
2		1.000	0.854	4404.54	0.0007	P	3.9
3		250.000	235.112	1004484.19	0.1667	P	7.4
4		625.000	648.938	2675715.48	0.4599	A	8.7
5		1250.000	1208.510	5276119.73	0.8564	A	1.1
6		2500.000	2383.559	10383160.88	1.6889	A	1.5
7		5000.000	5066.345	21214783.34	3.5897	A	5.1
8				10896.18	0.0020	P	8.7

y = 7.0853E-004 * x + 8.7189E-005
R = 0.9995
DL = 0.02174
BEC = 0.1231

Weight: <None>
Min Conc: 0

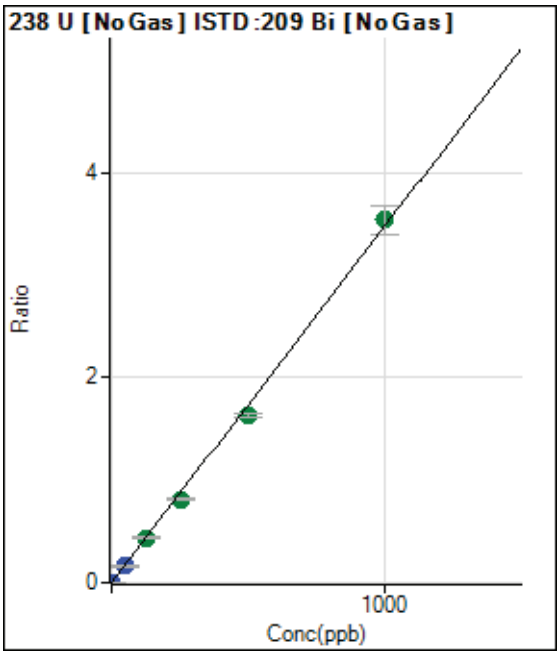


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2594.60	0.0004	P	2.1
2		1.000	0.841	20074.96	0.0032	P	2.2
3		250.000	246.724	4857126.80	0.8063	A	8.2
4		625.000	645.757	12276075.94	2.1096	A	8.2
5		1250.000	1209.189	24336955.29	3.9499	A	0.7
6		2500.000	2379.131	47777896.90	7.7712	A	1.0
7		5000.000	5068.207	97811839.22	16.5543	A	5.6
8				50987.96	0.0096	P	4.7

y = 0.0033 * x + 4.0581E-004
R = 0.9995
DL = 0.007974
BEC = 0.1242

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	19.44	0.0000	P	49.7
2		1.000	0.833	18416.62	0.0029	P	4.2
3		50.000	46.996	982838.76	0.1631	P	8.1
4		125.000	126.287	2552268.22	0.4384	A	7.1
5		250.000	234.390	5012756.10	0.8136	A	1.4
6		500.000	470.288	10037671.84	1.6325	A	2.3
7		1000.000	1018.748	20872726.85	3.5364	A	8.3
8				4078.86	0.0008	P	7.7

y = 0.0035 * x + 3.0456E-006

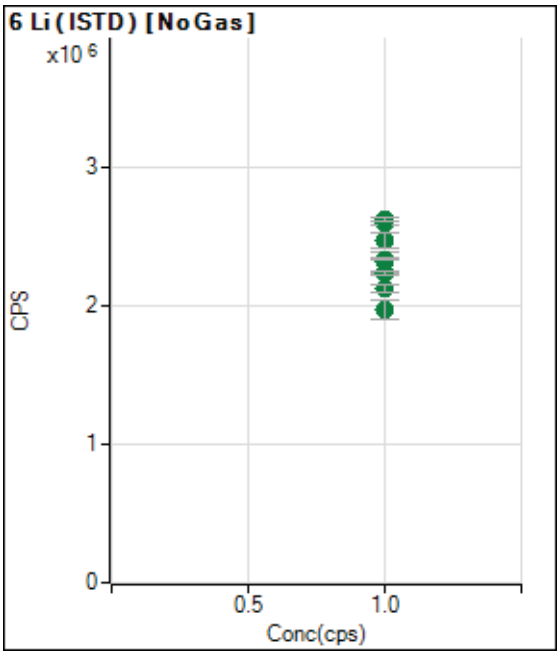
R = 0.9992

DL = 0.001309

BEC = 0.0008774

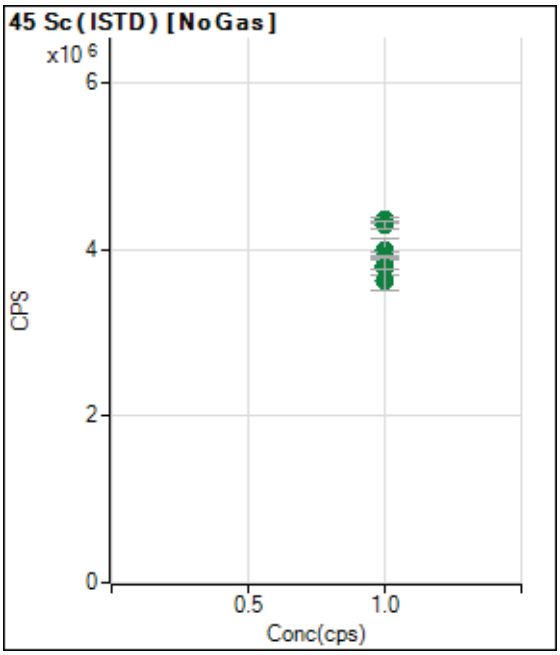
Weight: <None>

Min Conc: 0

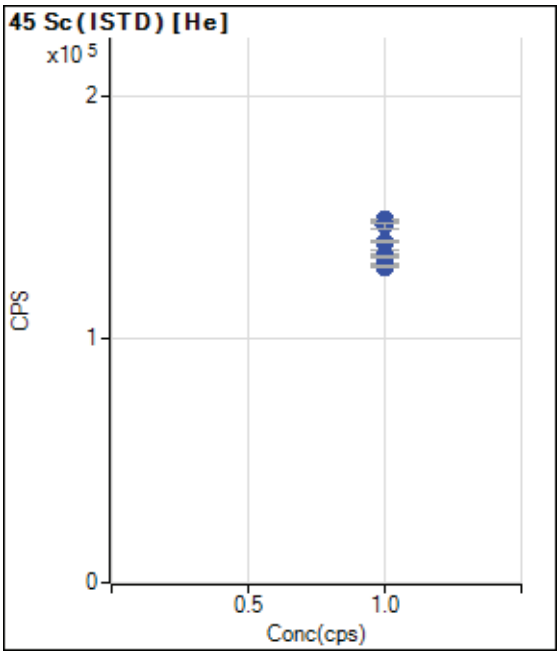


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2603032.20		A	1.0
2		1.000		2623846.94		A	0.9
3		1.000		2476707.42		A	4.4
4		1.000		2320087.36		A	6.7
5		1.000		2340265.67		A	0.9
6		1.000		2239711.47		A	1.8
7		1.000		2124741.75		A	3.0
8		1.000		1974910.39		A	7.0

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

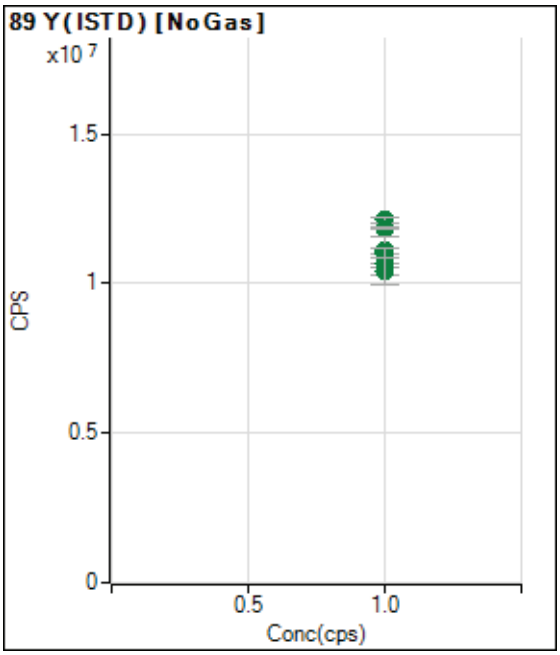


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4354339.21		A	1.6
2		1.000		4291225.14		A	1.9
3		1.000		4000697.19		A	6.2
4		1.000		3811369.08		A	6.4
5		1.000		3926135.50		A	1.8
6		1.000		3904489.28		A	1.3
7		1.000		3795074.73		A	5.1
8		1.000		3627130.68		A	7.2

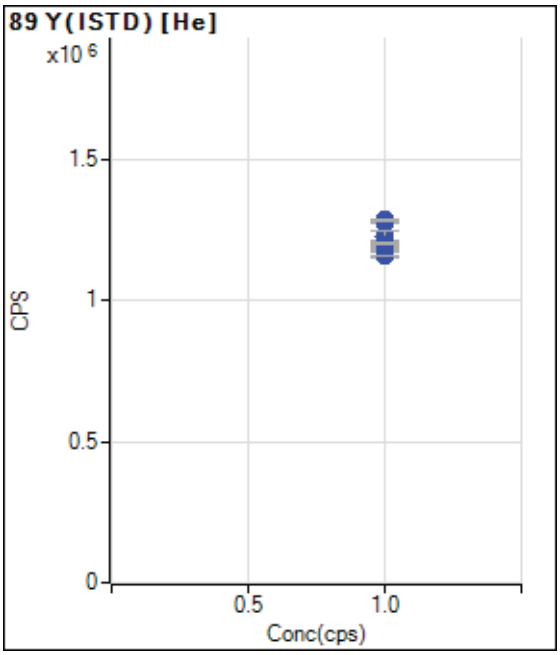


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		148863.48		P	0.6
2		1.000		146575.32		P	1.7
3		1.000		140030.43		P	0.9
4		1.000		134510.23		P	0.9
5		1.000		133351.78		P	4.1
6		1.000		129639.02		P	0.4
7		1.000		134098.09		P	1.3
8		1.000		133836.89		P	0.7

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

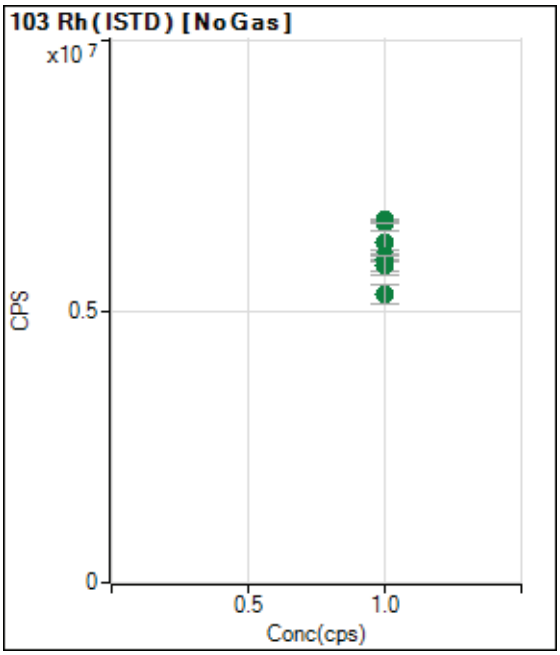


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		12130107.46		A	1.4
2		1.000		11841834.96		A	0.5
3		1.000		11123813.31		A	7.6
4		1.000		10651010.88		A	6.6
5		1.000		10999835.60		A	2.9
6		1.000		11042027.68		A	2.7
7		1.000		10865748.59		A	6.4
8		1.000		10413027.97		A	8.1

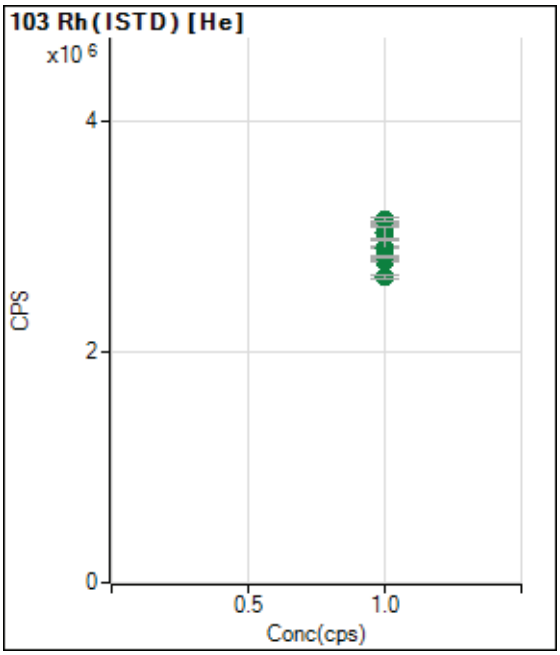


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1275974.76		P	0.5
2		1.000		1284286.62		P	0.5
3		1.000		1227872.11		P	2.7
4		1.000		1176561.98		P	0.5
5		1.000		1199825.75		M	8.1
6		1.000		1156567.87		P	0.1
7		1.000		1189821.89		P	0.6
8		1.000		1199068.12		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

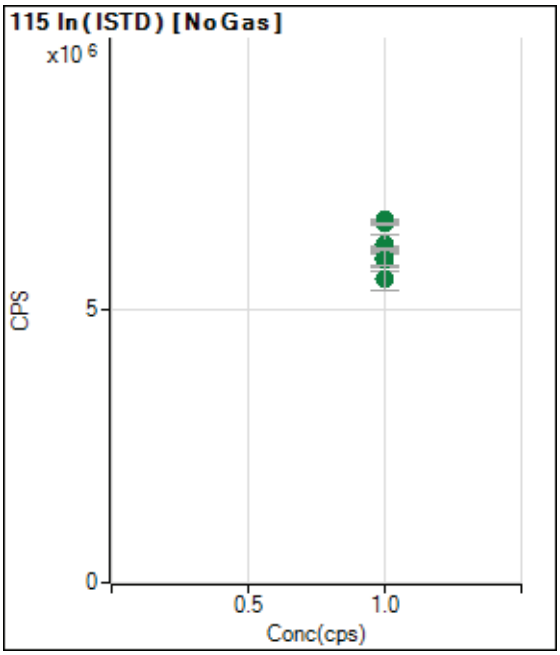


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6679451.49		A	0.8
2		1.000		6622575.97		A	0.3
3		1.000		6263544.67		A	6.3
4		1.000		5938899.09		A	6.6
5		1.000		6005473.66		A	1.6
6		1.000		5958188.50		A	2.1
7		1.000		5837414.06		A	5.9
8		1.000		5306734.97		A	6.8

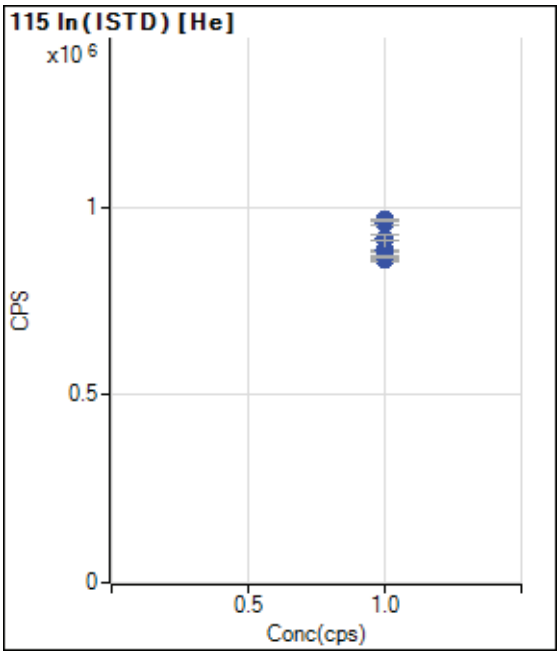


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3114670.75		A	0.6
2		1.000		3146957.73		A	1.2
3		1.000		3034344.64		A	3.1
4		1.000		2905751.49		A	0.4
5		1.000		2903493.64		A	4.9
6		1.000		2792840.93		A	0.8
7		1.000		2827706.45		A	1.0
8		1.000		2656534.92		A	1.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

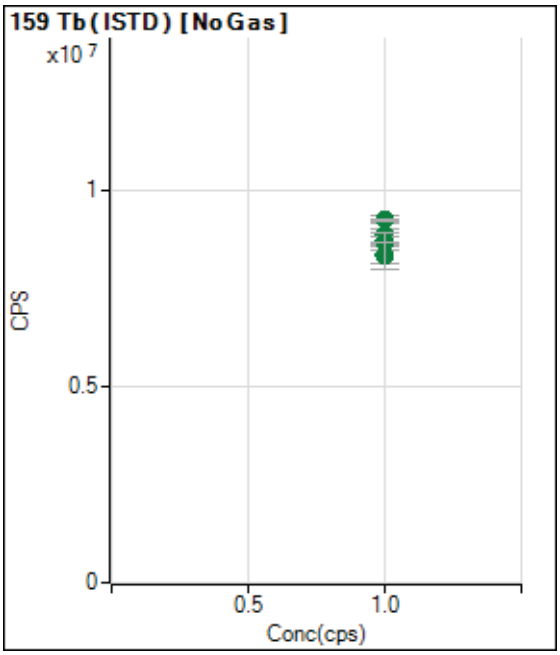


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6660958.81		A	0.7
2		1.000		6587001.59		A	0.7
3		1.000		6204830.67		A	5.6
4		1.000		5959874.15		A	5.2
5		1.000		6141761.97		A	0.7
6		1.000		6097470.25		A	0.6
7		1.000		5933258.15		A	6.7
8		1.000		5593864.69		A	7.7

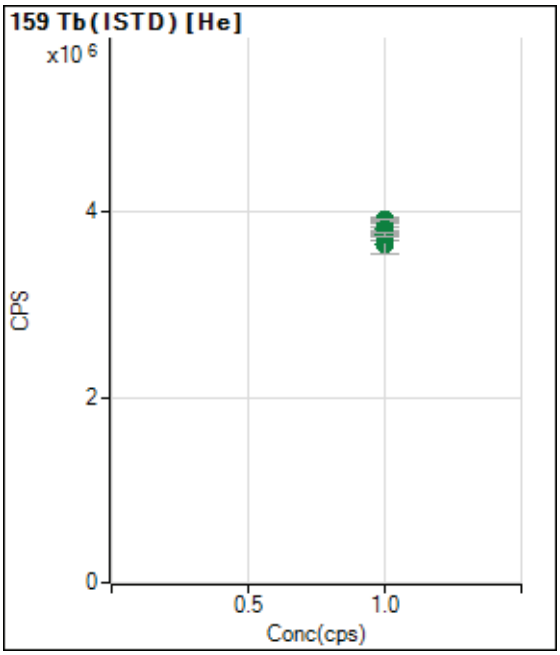


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		959068.76		P	0.6
2		1.000		967323.42		P	0.2
3		1.000		919145.54		P	1.5
4		1.000		884820.23		P	0.4
5		1.000		886993.07		P	5.5
6		1.000		860787.32		P	0.6
7		1.000		871186.62		P	0.2
8		1.000		871080.35		P	0.5

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

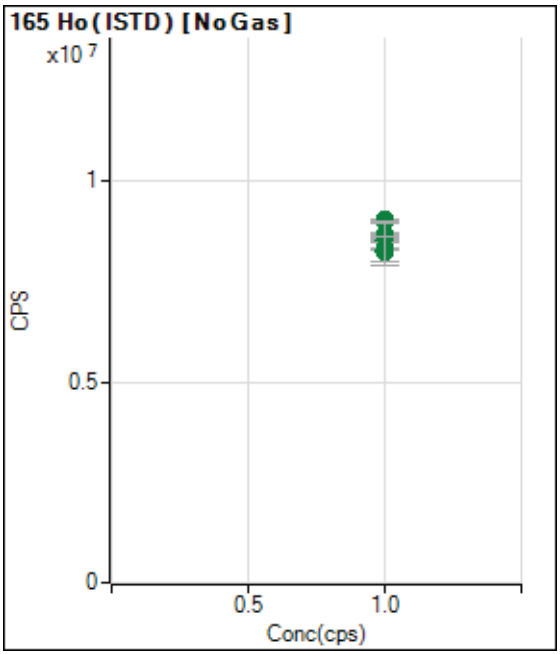


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9235681.18		A	2.1
2		1.000		9240800.70		A	0.8
3		1.000		8792578.13		A	5.4
4		1.000		8390581.40		A	6.0
5		1.000		8704279.11		A	3.1
6		1.000		8848541.12		A	1.1
7		1.000		8690576.96		A	5.3
8		1.000		8319441.61		A	8.3

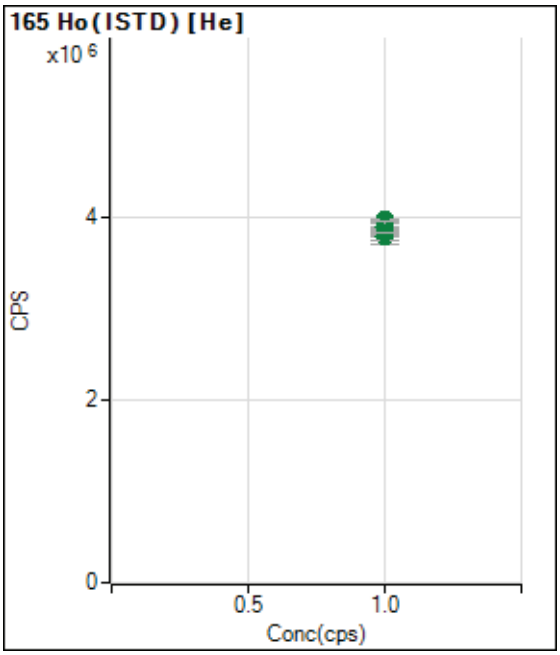


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3919389.80		A	1.4
2		1.000		3916865.43		A	0.7
3		1.000		3819436.40		A	0.8
4		1.000		3734282.48		A	1.4
5		1.000		3662839.39		A	5.6
6		1.000		3757439.94		A	1.2
7		1.000		3793328.80		A	0.5
8		1.000		3766357.38		A	1.1

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

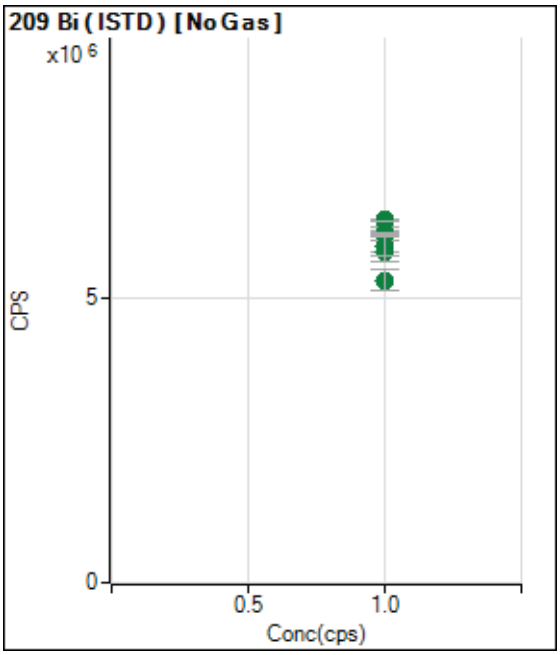


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		9043296.91		A	0.6
2		1.000		8998541.69		A	0.3
3		1.000		8503689.25		A	5.0
4		1.000		8266835.43		A	6.7
5		1.000		8545550.63		A	0.9
6		1.000		8690898.20		A	0.7
7		1.000		8639384.05		A	7.4
8		1.000		8271170.32		A	8.3

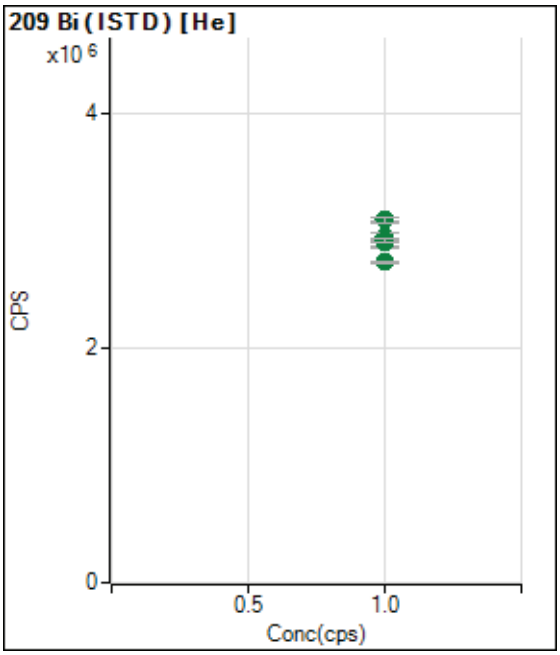


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3980551.61		A	0.4
2		1.000		3971211.16		A	1.0
3		1.000		3874259.84		A	1.0
4		1.000		3810003.21		A	0.8
5		1.000		3804769.63		A	4.4
6		1.000		3793520.43		A	1.5
7		1.000		3911079.87		A	2.7
8		1.000		3841472.68		A	0.3

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6393530.67		A	0.5
2		1.000		6365132.34		A	0.2
3		1.000		6048848.52		A	7.5
4		1.000		5838978.53		A	6.2
5		1.000		6161777.20		A	1.7
6		1.000		6148096.02		A	0.8
7		1.000		5921521.92		A	5.9
8		1.000		5332219.29		A	7.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3093564.29		A	1.0
2		1.000		3095061.59		A	1.4
3		1.000		2956754.16		A	1.7
4		1.000		2896746.13		A	1.3
5		1.000		2923960.93		A	4.4
6		1.000		2907002.56		A	0.7
7		1.000		2919972.60		A	1.3
8		1.000		2731748.68		A	0.4

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8071223 MS.b
Acq. Date-Time	2023-07-12 09:39:12
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		9014	90140.09			2.552	5.000
24		368357	3683569.46			2.338	5.000
25		48006	480058.03			2.199	5.000
26		56968	569677.38			2.515	5.000
59		72216	722163.49			3.971	5.000
113		8162	81623.54			1.946	5.000
115		105309	1053092.38			2.916	5.000
206		27278	272775.17			2.065	5.000
207		24422	244220.42			2.541	5.000
208		59663	596630.07			2.043	5.000
220		0	1.80			31.672	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

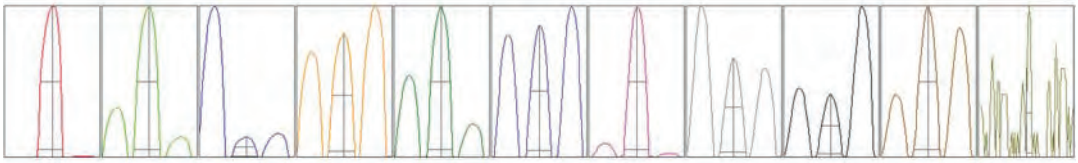
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9329	9125	8726	9007	8883
24	375525	371893	353426	369828	371113
25	49498	48063	46537	47781	48150
26	59211	56844	55207	56788	56789
59	76893	72374	69150	71455	71209
113	8336	8173	7924	8268	8110
115	109675	105847	101060	105202	104762
206	27668	27261	26333	27736	27390
207	24889	24259	23408	24687	24867
208	60223	60011	57550	59869	60663

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14938.29	9.05	8.90 - 9.10	
24	603107.28	24.00	23.90 - 24.10	
25	79799.58	25.00	24.90 - 25.10	
26	94110.22	26.00	25.90 - 26.10	
59	126702.00	59.00	58.90 - 59.10	
113	15450.12	113.05	112.90 - 113.10	
115	196437.37	115.05	114.90 - 115.10	
206	50983.21	206.00	205.90 - 206.10	
207	45744.55	207.00	206.90 - 207.10	
208	109964.61	208.00	207.90 - 208.10	
220	0.35	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.65	0.831	0.900	
25	0.64	0.792	0.900	
26	0.64	0.830	0.900	
59	0.60	0.780	0.900	
113	0.55	0.771	0.900	
115	0.55	0.775	0.900	
206	0.55	0.826	0.900	
207	0.55	0.794	0.900	
208	0.56	0.814	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16458	164584.20			3.791	
89		39407	394074.21			3.812	
205		21515	215146.59			3.059	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16651	16919	15781	17123	15819
89	39846	40389	38099	41105	37597
205	21824	21756	20499	22216	21278

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	3.8 V

US EPA Tune Check Report

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8
ClientSampleId :TUNE075

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm

EM

Discriminator	4.5 mV	Analog HV	2324 V	Pulse HV	1643 V

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r &p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RC&w
c P b A C A b	2072	7SF5N	SF50	SF51	SFSS	u 5c	l l e
c C&b nC/	12171	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
c pwr C A q	0y72	7SF51	SF51	SFSS	SFSS	u 5c	l l e
B sp A b	1- y71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
B sp A b	1- 071	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
B r p/ P A b	J71	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
B A b m&a	2SJ71				1SS		%
B A b m&a	2SJ72				1SS		%
B pmb A O r	N171						ql w
. sO b A b	1SN71	SF5-	7SF51	7SF52	SFSS	u 5c	l l e
. sO b A b	1S671	1FNy	7SFJN	7SFNN	SFSS	u 5c	l l e
. sO b A b	11171	SF52	7SF51	SFSS	SFSS	u 5c	l l e
. sP q A b	4- 71	7SF66	SF- y	SF- 1	SFSS	u 5c	l l e
. sP q A b	4471	71F- 2	1F54	SF2N	SFSS	u 5c	l l e
. spenC	1271						ql w
. spenC	1272						ql w
. hP pA O r	- y71						ql w
. hP pA O r	- y72						ql w
. hpmb A b	y272	7SF56	7SF52	SF50	SFSS	u 5c	l l e
. nesP&	yJ72	SFSS	SFSS	SFSS	SFSS	u 5c	l l e
. nl l r p	6- 72	SF5-	7SF5-	SFSS	SFSS	u 5c	l l e
t / wl pnw A b	1y671						ql w
t / wl pnw A b	1y672						ql w
E pe A b	16471						ql w
E pe A b	16472						ql w
G s O nF A C A b	16S71						ql w
G s O nF A C A b	16S72						ql w
H nP b A b	16y71				1SS		%
H nP b A b	16y72				1SS		%
D O O A b	11y71				1SS		%
D O O A b	11y72				1SS		%
D pnC	y472	7SF2N	SF60	7SF- N	SFSS	u 5c	l l e
D pnC	y672	7SF5-	SF54	7SF51	SFSS	u 5c	l l e
D pnC	y072	71F1-	SF5y	1F5J	SFSS	u 5c	l l e
Kp/ l &a C	N- 71						ql w
L r s O	2S671	SFSS	7SF51	SF51	SFSS	u 5c	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nOvr l 1	. nOvr l 2	. nOvr l -	cgMF. nOqF	. nOqv 3t	RCA&w
LrsO	2S071	SFSS	SFS1	SFSS	SFSS	u5c	l l e
LrsO	2SN71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
LA&nAmb	671				1SS		%
9 sMOr wAmb	2472	7SF21	7SF2N	SF4J	SFSS	u5c	l l e
9 sOMsOr wr	yy72	SFSS	SFS1	7SFS2	SFSS	u5c	l l e
9 nP eOr Omb	J471	SFS2	7SFS1	7SFS1	SFSS	u5c	l l e
9 nP eOr Omb	Jy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
9 nP eOr Omb	J671	7SFS1	7SFS1	SFS1	SFSS	u5c	l l e
9 nP eOr Omb	J071	7SFS1	SFS2	7SFS1	SFSS	u5c	l l e
9 nP eOr Omb	JN71	SFSS	SFSS	SFS1	SFSS	u5c	l l e
u r nO b Amb	1yS71						ql w
u r nO b Amb	1yS72						ql w
u Aqkr P	6S72	SFSS	7SFS1	SFS1	SFSS	u5c	l l e
8hnwl hnpmw	- 172	16F46	yF6y	746Fy2	7NF14		l l e
8 n&swwAmb	- J72	71F41	SF14	1F20	SFSS	u5c	l l e
v hnOAmb	1S- 71				1SS		%
v hnOAmb	1S- 72				1SS		%
3 qsCOAmb	4y71				1SS		%
3 qsCOAmb	4y72				1SS		%
3 r P CAmb	N271	7SF2N	SF14	SF14	SFSS	u5c	l l e
3 r P CAmb	0072	7SF- N	SF0y	7SF- N	SFSS	u5c	l l e
3 r P CAmb	0N72	SF2N	7SF2-	7SFS4	SFSS	u5c	l l e
3 AAqnC	2N71	SFSS	SFS2	7SFS2	SFSS	u5c	l l e
3 A gr p	1S071	SFSS	SFSS	SFS1	SFSS	u5c	l l e
3 A gr p	1SJ71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
3 nOAmb	2- 72	2F2S	71FSy	71F1y	SFSS	u5c	l l e
3 &nC&Amb	N671	SFSS	7SFS2	SFS2	SFSS	u5c	l l e
3 &nC&Amb	NN71	SFS1	7SFS1	SFSS	SFSS	u5c	l l e
3 mPmp	- 471	71J6FJS	711F00	7210F42	7142FS-		l l e
i r pe Amb	1yJ71				1SS		%
i r pe Amb	1yJ72				1SS		%
i hsPAmb	2S- 71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i hsPAmb	2Sy71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
i AC	11N71	7SFS2	SFS1	SFS1	SFSS	u5c	l l e
i A&sCAmb	4071	SFSS	SFSy	7SFS4	SFSS	u5c	l l e
RpsCAmb	2- N71	SFSS	SFSS	SFSS	SFSS	u5c	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D Dw&pmb Cr &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm r O:	2S2- 7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	9 sww	. nCvr l 1	. nCvr l 2	. nCvr l -	cgMF. nCqF	. nCqv 3t	RC&w
VsCsOAmb	y172	SFSS	SFSS	SFSS	SFSS	u5c	l l e
Y&pe Amb	10271						ql w
Y&pe Amb	10272						ql w
Y&pe Amb	10671						ql w
Y&pe Amb	10672						ql w
Y&p Amb	NJ71				1SS		%
Y&p Amb	NJ72				1SS		%
ZACq	6672	7SFS1	SFSS	SFS1	SFSS	u5c	l l e
ZAqnCAmb	JS71	SFSS	SFSS	SFSS	SFSS	u5c	l l e
ZAqnCAmb	J171	SFS2	SFS1	7SFS-	SFSS	u5c	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
i wNu TbTNu	2072	1MGSn	1MGD6	1MG12	1MG 1	2GS2	r r m
i oDDu Coy	12171	1GP6	1GD1	1GDn	1GD0	4G 0	r r m
i eeaboTA	0n72	1G1-	1G12	SGM1	1GSn	11GP6	r r m
BJeTNu	1- n71	MGS6	PGD4	PG44	PG6P	- GP1	r r m
BJeTNu	1- 071	PGD2	MGPn	MG1S	MG22	6G22	r r m
Bbeywi TNu	M71	SGM0	1GS1	SGMM	SGMM	1GPn	r r m
BTau NDn	2SM71				1SS		%
BTau NDn	2SM72				1SS		%
BeOu Tbb	P171						A r a
5 Jqu TNu	1SP71	SGPS	1G1n	SGMM	SGMP	10G60	r r m
5 Jqu TNu	1S671	72G11	2G M	71G4n	7SG M		r r m
5 Jqu TNu	11171	SGP4	SGM4	SGM6	SGM1	6GDP	r r m
5 JvATNu	4- 71	414G4n	441G1P	44SGDn	4- 2G1-	- GD4	r r m
5 JvATNu	4471	41MG4P	440GPM	442G M	4- 6GDM	- G4n	r r m
5 JemOo	1271						A r a
5 JemOo	1272						A r a
5 hwDeTbb	- n71						A r a
5 hwDeTbb	- n72						A r a
5 heOu TNu	n272	1GPP	1GMh	1GM4	1GM2	1G6M	r r m
5 OmJwD	nM72	SGM6	SGM6	SGMh	SGM6	SG4P	r r m
5 Orr be	6- 72	1GPM	1GP2	1GPM	1GP0	2G S	r r m
I yar eOaTNu	1n671						A r a
I yar eOaTNu	1n672						A r a
EemTNu	16471						A r a
EemTNu	16472						A r a
GJqOwbTNu	16S71						A r a
GJqOwbTNu	16S72						A r a
HOw TNu	16n71				1SS		%
HOw TNu	16n72				1SS		%
poqTNu	11n71				MM		%
poqTNu	11n72				1S1		%
peOo	n472	nSGDM	40G20	n1GD4P	4MGPP	4G6S	r r m
peOo	n672	4PG61	46GMh	4PG6M	4PGSM	2GSn	r r m
peOo	n072	44GS6	40GP4	4PG4-	46GDP	nGS0	r r m
Keyr DDo	P- 71						A r a
LbJq	2S671	SGPn	SGP6	SGP4	SGPn	1GD4	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDJ. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
LbJq	2S071	SCPM	SCP2	SCPn	SCPn	4C44	r r m
LbJq	2SP71	SCP4	SCP6	SCP2	SCP4	2C06	r r m
LTDTNu	671				1S1		%
g JvobaTNu	2472	404C40	40nC11	4M2C10	4PSC0P	2CSM	r r m
g JovJobab	nn72	SCM6	SCM4	SCP4	SCM1	6C62	r r m
g OymqboNu	M471	nCSS	nCSM	nG 2	nC1-	- C1P	r r m
g OymqboNu	Mn71	4G P	4C41	4C2n	4G n	2CSS	r r m
g OymqboNu	M671	4C42	4C4M	4G 6	4C42	1C46	r r m
g OymqboNu	M071	4G 2	4C1M	4G 6	4C2M	2C12	r r m
g OymqboNu	MP71	4C0n	4C2-	4C4-	4C4S	- C06	r r m
8 bOqyu TNu	1nS71						A r a
8 bOqyu TNu	1nS72						A r a
8 TAkbw	6S72	1CS6	1C1S	1C16	1C11	4G -	r r m
I hOarhOaNa	- 172	4C16	710CS4	- 0G S	PC14	- - 6C00	r r m
I CDJaaTNu	- M72	40- CS1	4n6C66	4n6C11	4610C4	2CSP	r r m
UhOqTNu	1S- 71				MM		%
UhOqTNu	1S- 72				1S1		%
3 AJoqTNu	4n71				MM		%
3 AJoqTNu	4n72				MP		%
3 bwboTNu	P271	nC12	4C2-	4C04	4C06	MC06	r r m
3 bwboTNu	0072	2C00	6G P	4CSM	4C4P	- PCPS	r r m
3 bwboTNu	0P72	- C0h	6CS0	4C26	4C06	24CS4	r r m
3 TWACo	2P71	SC0M	SC02	SG60	SG66	1SC4M	r r m
3 TWbe	1S071	SC02	SC00	SC0P	SC06	- CS6	r r m
3 TWbe	1SM71	SC01	SC00	SC02	SC04	2C04	r r m
3 OqTNu	2- 72	4P0C02	40- C4n	4M2C04	4P4C0S	2CS0	r r m
3 DaOoDTNu	P671	SCPP	SCPn	SCP0	SCP6	1C0-	r r m
3 DaOoDTNu	PP71	SC04	SCPM	SCP0	SC0S	- CP4	r r m
3 NvNe	- 471	716SC0S	2MPC1-	2PPC60	142CS-	1P4C62	r r m
&bemTNu	1nM71				1SS		%
&bemTNu	1nM72				1SS		%
&hJwTNu	2S- 71	SCPM	SCP-	SCP1	SCP4	4C0P	r r m
&hJwTNu	2Sn71	SCP0	SCPP	SCPM	SCPP	1C2-	r r m
&Tb	11P71	4G 4	4G 2	4C44	4G 0	1C40	r r m
&TDJoTNu	4071	4C46	4C4-	4C06	4C4P	1C42	r r m
F eJoTNu	2- P71	SCP1	SCP0	SCP1	SCP-	4C22	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S2	poaD8Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S2	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:12:16	I JDD. Tw 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
VJoJqTNu	n172	4CPn	4C62	4C6P	4CC2	2C04	r r m
YDDbemTNu	10271						Ar a
YDDbemTNu	10272						Ar a
YDDbemTNu	10671						Ar a
YDDbemTNu	10672						Ar a
YDDbTNu	PMV71				MP		%
YDDbTNu	PMV72				1S1		%
ZTbA	6672	2C1M	2CS0	2C4-	2C2-	PC2S	r r m
ZTbACoTNu	MS71	SCC0	SCPM	SCC4	SCPS	MCPM	r r m
ZTbACoTNu	M171	SCC0	SCPS	SCPM	SCP2	0CP1	r r m

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARVC5oncC	5oncU3D	Fnits
Aluminium	2072	1S90C92	1S9M40	1S48CSS	1S99CSS	SC98	ppb
Antimony	12171	9- C49	40C28	48CS-	4MC98	6C0M	ppb
Arsenic	0972	91C9S	9- CS2	9- C9S	92C60	10CM	ppb
Barium	1- 971	26SC 2	2- 8C30	241CS6	246C09	4C08	ppb
Barium	1- 071	269C48	241C24	242C36	24MC36	9C42	ppb
Beryllium	M71	9- C68	4M4M	4MC09	91CS4	4C9S	ppb
Bismuth	2SM71				M9		%
Bismuth	2SM72				M6		%
Bromine	8171						cps
5admium	1S871	6SC66	94CS2	92C98	99C09	0C0-	ppb
5admium	1S671	9- CS6	92CM	4MC0M	91C04	- C9M	ppb
5admium	11171	90C28	91C 6	9- C90	94CS0	9C9-	ppb
5alcium	4- 71	98M2C 9	92- - C16	9208C0	9468C16	6C0-	ppb
5alcium	4471	9062C9-	9114C6M	929MC02	9- 08C08	6C 2	ppb
5arbon	1271						cps
5arbon	1272						cps
5hlorine	- 971						cps
5hlorine	- 972						cps
5hromium	9272	9SC S	9SCS9	48C29	4MC9-	2C26	ppb
5obalt	9M72	91CS0	4MC32	4MC90	9SC19	1C6S	ppb
5opper	6- 72	912C26	9SMC6-	4MC06M	9S6C9-	1C9-	ppb
Dysprosium	19671						cps
Dysprosium	19672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16S71						cps
Gadolinium	16S72						cps
Holmium	16971				M4		%
Holmium	16972				M0		%
Indium	11971				M4		%
Indium	11972				M6		%
Iron	9472	26S- C26	2641C6-	2994C2S	29MMC0S	1C6M	ppb
Iron	9672	2010C31	2049C0S	20SSC4M	2021C-	SC34	ppb
Iron	9072	2618C 4	29- 1C6M	29S6C09	2992C-	2C2M	ppb
Krypton	8- 71						cps
Lead	2S671	2906C6M	22SCS9	226C19	2- 4C6-	8C61	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	Fnits
Lead	2S071	299CS8	224C04	229C92	2- 9C11	0C6	ppb
Lead	2S871	26M8-	2- 2C29	2- 8CSM	246C02	8C2S	ppb
Lithium	671				M9		%
g avnesium	2472	94- M026	941- C4-	9262C22	9- 01C64	1C08	ppb
g anvanese	9972	9S- C09	4M6C49	488C2	4M6C24	1C90	ppb
g olybdenum	M471	99M62	480C89	4M9C1M	914C4M	0C64	ppb
g olybdenum	M971	996C69	4M0C19	912CS0	921C06	9C04	ppb
g olybdenum	M671	901C01	4M0C6M	911C42	926C04	0C40	ppb
g olybdenum	M071	96- C6S	484C8S	4M0C1M	919C46	8C1M	ppb
g olybdenum	M871	909C4-	4M- C14	9S6CSS	924C86	8C4-	ppb
Neodymium	19S71						cps
Neodymium	19S72						cps
Nickel	6S72	94C09	9- C9-	92C82	9- C0S	1C82	ppb
Phosphorus	- 172	1S10C21	1S- 2C2S	1S48C6M	1S- 2C0S	1C92	ppb
Potassium	- M72	2990C2M	2926C09	2916C9M	29- - C61	SC8-	ppb
Uhodium	1S- 71				M4		%
Uhodium	1S- 72				M0		%
3candium	4971				M2		%
3candium	4972				M4		%
3elenium	8271	6SC0S	9- C0M	91C02	99C40	8C42	ppb
3elenium	0072	69C6S	40C86	44CSS	92C4M	21C09	ppb
3elenium	0872	94C00	9M4S	6- C96	9M24	0C42	ppb
3ilicon	2871	61C09	9- C61	94C04	96C8-	0C88	ppb
3ilRer	1S071	99C01	9SC84	91C9M	92C02	4C00	ppb
3ilRer	1SM71	96C1M	9SCS-	9SC40	92C2-	6C98	ppb
3odium	2- 72	9669C00	998SC98	9482C60	9906C4	1C64	ppb
3trontium	8671	1419C16	12- 9C64	1291C0S	1- SSC8-	0C64	ppb
3trontium	8871	1- 80C08	1226CS6	121M8S	1200C88	0C49	ppb
3ulfur	- 471	- S29C4-	1- M9C2-	1406C10	1M69C61	46C04	ppb
Terbium	19M71				M9		%
Terbium	19M72				M0		%
Thallium	2S- 71	92C06	49C49	49C04	48CS9	8C9S	ppb
Thallium	2S971	9- C9	44C91	46C12	40C0M	M81	ppb
Tin	11871	94C12	48C4M	48C0M	9SC40	6C28	ppb
Titanium	4071	940C8S	4M2C8	4M9C8-	912CSS	6CS6	ppb
Franium	2- 871	91C8	44C44	49C18	40CSS	8C11	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S-	Instrumnet Name :	P8
5lient 3ample ID :	3S-	Dilution . actor :	1
Date & Time Acquired :	2S2- 7S0712 12:19:2S	Data. ile Name :	SS65 AL3 Cl

Parameter	g ass	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncU3D	F nits
Vanadium	9172	91C2S	92C42	9SC00	91C46	1C66	ppb
Ytterbium	10271						cps
Ytterbium	10272						cps
Ytterbium	10671						cps
Ytterbium	10672						cps
Yttrium	8M71				M2		%
Yttrium	8M72				M6		%
Zinc	6672	921CSS	91M48	9S4C49	9140M8	1C08	ppb
Zirconium	MS71	9- C6M	40C M	48C12	4MC0-	6C04	ppb
Zirconium	M171	9- C0	46C44	48CS-	4MC48	8CS2	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNEbq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTb
i lNu TbTNu	2072	26S45- 2	2g4- 524	2g9056S	2g095- M	1522	r r m
i oDu Coy	12171	116569	1- 05- M	129591	12056-	951g	r r m
i esboTA	0g72	1- S5- S	126592	126599	1295SS	15g6	r r m
BaeTNu	1- g71	g92511	69M5SS	64g5- M	6- 9594	9541	r r m
BaeTNu	1- 071	gM- 560	6M65S-	6465M1	64g5g4	05M-	r r m
BbeylITNu	M71	11M5- 9	14155S1	12052-	12M52S	9540	r r m
BTsu NDn	2SM71				M1		%
BTsu NDn	2SM72				M4-		%
BeOu Tbb	9171						Ar s
n aqu TNu	1S971	1- - 5SS	1495MS	14S52M	14S50-	g566	r r m
n aqu TNu	1S671	12456M	1gS564	1- 652M	1- 0521	M540	r r m
n aqu TNu	11171	12g5- 2	1495- 2	14S500	1- 9514	954M	r r m
n alATNu	4- 71	126SM5- S	1492252-	1- gg9502	1- 66- 542	951-	r r m
n alATNu	4471	122915MM	14- 9S52g	1- g60562	1- 4SM5Mg	059M	r r m
n aemOo	1271						Ar s
n aemOo	1272						Ar s
n hlOeTbb	- g71						Ar s
n hlOeTbb	- g72						Ar s
n heOu TNu	g272	12- 560	11M51M	11M500	12S590	25S1	r r m
n OmalD	gM72	1265M1	12- 516	12g5SS	12g52-	15g2	r r m
n Or r be	6- 72	1- 02526	1290512	1- 1M5S-	1- 26514	- 524	r r m
I ysr eOs TNu	1g671						Ar s
I ysr eOs TNu	1g672						Ar s
EemTNu	16471						Ar s
EemTNu	16472						Ar s
GaqOTbTNu	16S71						Ar s
GaqOTbTNu	16S72						Ar s
HOlu TNu	16g71				M1		%
HOlu TNu	16g72				M6		%
poqTNu	11g71				9M		%
poqTNu	11g72				M2		%
peOo	g472	6g4051S	6- 01520	64M0596	64025S9	154S	r r m
peOo	g672	60S2544	6g6S5- 9	66M05- -	66g- 5- 9	1521	r r m
peOo	g072	64SM524	626- 52S	624651-	6- S651M	1542	r r m
Keyr DDo	9- 71						Ar s
Lbaq	2S671	61- 5M0	0S1591	644596	6g- 5gg	6592	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	gM454M	0S052g	64g5S0	6495M4	950S	r r m
Lbaq	2S971	gM0540	0S256g	6- 051g	64g506	9522	r r m
LTDbTNu	671				9M		%
v aRobsTNu	2472	1- 022509	1- ggg529	14S24506	1- 06056S	150-	r r m
v aoRaobsb	gg72	12- 65M4	11M4599	122454M	12195 00	1500	r r m
v Clymqboi Nu	M471	12g259-	14g9506	1- S459g	1- - 9591	95SS	r r m
v Clymqboi Nu	Mg71	12- g512	144M5M2	1- SM5gg	1- - 15g-	951M	r r m
v Clymqboi Nu	M671	122M544	14g450g	1- SM512	1- - 151S	95g9	r r m
v Clymqboi Nu	M071	12295g4	14g955S2	129g5S0	1- 2- 599	M5S-	r r m
v Clymqboi Nu	M971	12295gM	141M5g1	120M5S6	1- SM5S6	05g6	r r m
8 bOqyu TNu	1gS71						Ar s
8 bOqyu TNu	1gS72						Ar s
8 TAkbl	6S72	1- 156g	129542	1- - 5- 4	1- 1514	15M1	r r m
PhOsr hOaNs	- 172	244M594	2- g95- S	2g645M4	24g056M	4521	r r m
PODassTNu	- M72	6- 10596	6S6- 560	61005- 9	61965- 1	25S6	r r m
F hOqTNu	1S- 71				9M		%
F hOqTNu	1S- 72				M4		%
3 AaoqTNu	4g71				99		%
3 AaoqTNu	4g72				M5		%
3 blboTNu	9271	1- S521	14M5S0	1- g5g-	1- 9520	05S-	r r m
3 blboTNu	0072	124506	12S561	1465M9	1- S50M	1S594	r r m
3 blboTNu	0972	1- 45- 1	141562	1- g5- 1	1- 05S9	259M	r r m
3 TTAOo	2971	1205- 1	1gS5- -	1- 0500	1- 9540	95- 2	r r m
3 TUbe	1S071	12- 596	1- M5M9	1- g512	1- 25M9	6522	r r m
3 TUbe	1SM71	12150M	14- 5S1	1- 6524	1- - 569	9511	r r m
3 OqTNu	2- 72	1- 6g454-	1- 4965M5	1- g6g51-	1- g6959 2	S562	r r m
3 DaOoDTNu	9671	- SM150M	- 6g452g	- 241522	- - 2M5SM	950g	r r m
3 DaOoDTNu	9971	2Mg652-	- g11590	- 2- 65- M	- 2- 459-	95gM	r r m
3 NifNe	- 471	29gM51g	46- 6522	- - MM5S2	- 6- 1546	2g5SM	r r m
&bemTNu	1gM71				M1		%
&bemTNu	1gM72				Mg		%
&hallTNu	2S- 71	116542	1- - 5- 9	1215 9-	12- 599	65MM	r r m
&hallTNu	2Sg71	11M5MM	1425g4	12M5S-	1- S5g2	950S	r r m
&Tb	1197 1	1145M0	1- M5- M	1- 15M4	129500	M502	r r m
&DaoTNu	4071	11MS50M	1- 9g59-	12M05- 9	12M15- -	05g6	r r m
. eaoTNu	2- 971	1105MM	1- g50-	12g514	12652M	05S0	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S4	posDeNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S4	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2- 7S0712 12:19:19	I aDaCTb 8 au b :	SS0n i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	g172	1295M4	122520	12654S	12g590	2560	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDeTNu	9M71				99		%
YDDeTNu	9M72				M2		%
ZTbA	6672	120S529	12- 654-	12gM52S	12gg5- S	15- 0	r r m
ZTeACoTNu	MS71	1105Ig	1- 952S	12g5S9	12659 1	95- 9	r r m
ZTeACoTNu	M171	1165DS	1- g50M	1245 92	12g500	0561	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA 5&3sb l Pr:D :9	3S-	t Ar&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
cPmb A5Amb	20 2	-111.-1	-SS6.4J	4662.-6	4J26.N-	4.00	l l e
c5&b n5y	121 1	240.J0	276.S1	27-.4J	27J.N2	2.J4	l l e
cpwr 5Aq	0- 2	26S.JS	244.24	216.04	24S.67	J.20	l l e
BspAmb	17- 1	124J.1J	11NJ.6-	1100.07	12S-.-2	7.1N	l l e
BspAmb	170 1	12N4.2J	1227.64	11JJ.-J	127-.N4	7.-7	l l e
Br pyPAmb	J 1	24S.-1	270.--	241.-N	27J.NN	S.N0	l l e
BAwb m&a	2SJ 1				J6		%
BAwb m&a	2SJ 2				J-		%
Bpmb A5r	N1 1						ql w
CsOb Amb	1SN 1	267.44	24J.20	2--.77	2-6.S1	2.0N	l l e
CsOb Amb	1S6 1	2--.02	24-.42	240.04	24J.67	2.16	l l e
CsOb Amb	111 1	261.66	2-S.7J	24J.N1	2-7.J-	2.67	l l e
CsPqAmb	47 1	2-664.00	2-111.S1	2466-.2J	2-140.S2	1.JJ	l l e
CsPqAmb	44 1	2-1NJ.JJ	2-S16.S1	242N4.7J	24N7S.17	1.J4	l l e
Cspen5	12 1						ql w
Cspen5	12 2						ql w
ChPmp5r	7- 1						ql w
ChPmp5r	7- 2						ql w
Chpmb Amb	-2 2	241.N6	27J.S-	22S.J-	277.J-	4.N-	l l e
CnesP&	-J 2	24J.6J	247.S7	224.N6	27J.1J	-.70	l l e
CnI l r p	67 2	2620.NS	2-27.6J	276S.2J	2-S7.J7	-.7J	l l e
t ywl pnwAmb	1-6 1						ql w
t ywl pnwAmb	1-6 2						ql w
EpeAmb	164 1						ql w
EpeAmb	164 2						ql w
GsOnP5Amb	16S 1						ql w
GsOnP5Amb	16S 2						ql w
HnPb Amb	16- 1				J4		%
HnPb Amb	16- 2				J6		%
D5OAmb	11- 1				J2		%
D5OAmb	11- 2				J2		%
Dpn5	-4 2	120N0.6-	12647.70	1102N.4-	127N6.4J	4.64	l l e
Dpn5	-6 2	171SS.6N	17SS2.N-	121N6.24	12067.26	7.J7	l l e
Dpn5	-0 2	12627.0J	12222.-1	117J-.J6	12SNS.0-	-.1N	l l e
Kpyl &a5	N7 1						ql w
LrsO	2S6 1	1210.22	1212.7S	12S2.64	121S.02	S.61	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	o l r ps&mp:9	aswl sP
Lse:3sb l Pr:D :9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA5&3sb l Pr:D :9	3S-	t Pr&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219IJ	t s&sFAr:u sb r :9	SSNCcL3.O

8sp sb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
LrsO	2S0 1	1221.62	12SJ.-4	11J4.70	12SN.-1	1.17	l l e
LrsO	2SN 1	1210.S-	12SJ.2N	12S1.24	12SJ.1J	S.6-	l l e
LA&mAmb	6 1				JS		%
Msg5rwAmb	24 2	20126.-N	267NN.77	24047.S0	26SN-.JJ	4.6N	l l e
Ms5gs5rwr	-- 2	2-2J.-4	2-0S.--	277N.N4	240J.64	4.JJ	l l e
MnPyeOr 5mb	J4 1	2-S6.70	27--.6N	24S7.1J	2421.0-	7.1N	l l e
MnPyeOr 5mb	J- 1	2-S2.J7	2762.S0	27N6.77	2410.11	7.12	l l e
MnPyeOr 5mb	J6 1	24J0.S2	27N7.12	27J4.N-	242-.SS	2.-N	l l e
MnPyeOr 5mb	J0 1	2-14.60	27J-.-4	277S.02	2417.64	7.N0	l l e
MnPyeOr 5mb	JN 1	24N4.42	27-4.16	276S.11	27JJ.-0	7.S0	l l e
urnOybAmb	1-S 1						ql w
urnOybAmb	1-S 2						ql w
uAqkrP	6S 2	262.4S	2-S.66	274.JJ	24J.7-	-.-2	l l e
8hnwlhnpmw	71 2	4J7-.J2	40JN.SN	4446.7J	4026.NS	-.74	l l e
8n&swwAmb	7J 2	12141.-7	11J22.S0	1124-.-S	1106J.0S	7.J0	l l e
RhnOAmb	1S7 1				JS		%
RhnOAmb	1S7 2				J7		%
3qs5OAmb	4- 1				JS		%
3qs5OAmb	4- 2				JS		%
3rP5Amb	N2 1	26-.J0	2-7.J0	2-4.27	2-N.S6	2.66	l l e
3rP5Amb	00 2	261.14	24J.12	272.46	240.-N	-.N2	l l e
3rP5Amb	0N 2	26N.J4	2-6.06	22-.66	2-S.4-	N.J1	l l e
3APqn5	2N 1	267.64	2-2.S2	2-2.N-	2-6.10	2.-7	l l e
3APrp	1S0 1	2-N.-J	240.4N	2-7.-S	2-7.1J	2.2S	l l e
3APrp	1SJ 1	266.16	2-4.4-	2-7.4J	2-N.S7	2.07	l l e
3nOAmb	27 2	26NJ0.NN	2-JS7.1S	244S1.27	2-074.S0	4.NN	l l e
3&pn5&Amb	N6 1	62JJ.6N	6S00.NN	-JJJ.71	612-.67	2.-4	l l e
3&pn5&Amb	NN 1	671-.S4	-NN2.02	6S1J.-7	6S02.47	7.64	l l e
3mPmp	74 1	--7N.N0	4JNS.70	4NJ7.N7	-170.6J	6.N1	l l e
irpeAmb	1-J 1				J4		%
irpeAmb	1-J 2				J7		%
ihsPAmb	2S7 1	27S.24	226.00	227.NN	226.J6	1.4S	l l e
ihsPAmb	2S- 1	242.N2	242.6N	244.JS	247.40	S.-1	l l e
iA5	11N 1	2-2.77	27J.26	277.S0	241.--	4.S0	l l e
iA&s5Amb	40 1	240-.76	244N.16	27-4.77	242-.J-	2.62	l l e
Ups5Amb	27N 1	274.SS	270.J2	271.2-	274.7J	1.47	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	o l r ps&mp9	aswl sP
Lse:3sb l Pr:Dr:9	3S-	D5w&pmb 5r &u sb r :9	8N
CPA5&3sb l Pr:Dr:9	3S-	t ARn&N5:Fsq&mp9	1
t s&:T:i Ao r :cqdmAr O.9	2S27 S0 12:129219 1J	t s&sFAr:u sb r :9	SSNCcL3.O

8spsb r &p	Msww	Cn5Rr l 1	Cn5Rr l 2	Cn5Rr l 7	cvg.:Cn5q.	Cn5qR3t	U5A&w
Vs5sOAmb	- 1 2	2- 7.4-	246.02	22J.66	247.2N	- .S4	l l e
Y&&pe Amb	102 1						ql w
Y&&pe Amb	102 2						ql w
Y&&pe Amb	106 1						ql w
Y&&pe Amb	106 2						ql w
Y&&pAmb	NJ 1				J1		%
Y&&pAmb	NJ 2				J4		%
ZA5q	66 2	24J0.27	242S.J4	2202.06	27J6.JN	4.06	l l e
ZAqn5Amb	JS 1	2- 4.11	247.21	244.J6	240.47	2.70	l l e
ZAqn5Amb	J1 1	27J.1J	271.2-	271.0N	274.S0	1.JS	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b :	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b :	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
i wNu TbTNu	2072	1S2010MM	1S1-2G4S	1S1-0G1	1S1PSG42	SGPP	r r m
i oDu Coy	12171	4P4GPM	400G6	4P0G-	4P-G1P	1GS0	r r m
i eeboTA	0M72	MS1GPP	MS6G10	MSSG00	MS2G04	SGM0	r r m
BJeTNu	1-M71	242MG00	242MG41	242SGn	242-G02	SG1-	r r m
BJeTNu	1-071	24-PGSS	2-4-GMS	2-n1GP6	2-n1G12	1G0P	r r m
BbeywTNu	n71	401G2n	4nSG6M	46nGS2	406G0n	2G4n	r r m
BTau NDn	2Sn71				n6		%
BTau NDn	2Sn72				n4		%
BeOu Tbb	P171						Ara
5 Jqu TNu	1SP71	4PnG6	4PPGM	4nSG22	4PnG1	SG1n	r r m
5 Jqu TNu	1S671	4P2G26	406G01	4n4G2n	4P4G42	1GPM	r r m
5 Jqu TNu	11171	4n-G22	4P-GM2	4P4G64	4P0G1-	1GSn	r r m
5 JvATNu	4-71	4P1-PG02	4nP66GSM	MS11-G2	4n-02G06	2G1P	r r m
5 JvATNu	4471	4PSS6GM0	4nnP1G2S	MS40MG14	4n4P0G64	2G64	r r m
5 JemOo	1271						Ara
5 JemOo	1272						Ara
5 hwOeTbb	-M71						Ara
5 hwOeTbb	-M72						Ara
5 heOu TNu	M272	4PMGMM	4PMG01	4P-G02	4PMGS6	SG2S	r r m
5 OmJwD	Mh72	4nSG04	4n2GS0	4n6G46	4n-G16	SGMh	r r m
5 Orr be	6-72	M1-6G1S	M1S1GM6	M12-GSM	M12SG24	SG4	r r m
I yar eOaTNu	1M671						Ara
I yar eOaTNu	1M672						Ara
EemTNu	16471						Ara
EemTNu	16472						Ara
GJqOwbTNu	16S71						Ara
GJqOwbTNu	16S72						Ara
HOw TNu	16M71				n6		%
HOw TNu	16M72				nM		%
poqTNu	11M71				n2		%
poqTNu	11M72				nS		%
peOo	M472	26Pn-GP	201PnGP4	20M4PG12	2021SG4M	1G2S	r r m
peOo	M672	26-P2GS0	2Mh0PG6-	264-0GMP	26266GSn	SG0M	r r m
peOo	M072	2MSP1G1P	2MSSSG0n	2M-S0GPP	2M12nG0M	SG6-	r r m
KeyrDDo	P-71						Ara
LbJq	2S671	2-nSG2-	2-nMG20	2--MGP4	2-0-GGP	1Gn	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3S6	poaD8Nu obD8Ju b:	I P
5 wTboD3Ju r wo pl :	3S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq:	2S2-7S0712 12:24:10	I JDJ. Tw 8Ju b:	SSn5i L3Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3I	FoTa
LbJq	2S071	2-PMSSn	2410G41	2-4PC1P	2-P-0M6	1G4M	r r m
LbJq	2SP71	2-66G26	24S6GS0	2-6MSS0	2-0nC1-	SG0P	r r m
LTDTNu	671				P6		%
g JvobaTNu	2472	M-P0SC0S	M2S20G64	M26SSG0-	M2P--GS2	1C0n	r r m
g JovJobab	MW72	MSM-G04	M1n1CM2	M16SG0S	M1-MG4M	1G41	r r m
g OymqboNu	n471	4MP2G-4	4nSMC04	4PSnG2n	406MC02	-G4P	r r m
g OymqboNu	nM71	462nG0P	4Pn2GP0	4PMPG26	40n-C0S	2G0P	r r m
g OymqboNu	n671	466MG61	4n41G66	4P-2GSM	4P1-C11	2GPn	r r m
g OymqboNu	n071	46P2GM	4n40G01	40-MGP	40PPC0M	2G0-	r r m
g OymqboNu	nP71	466SGS	MS1PGP1	406MG04	4P1MSS2	-GP-	r r m
8 bOqyu TNu	1MS71						Ara
8 bOqyu TNu	1MS72						Ara
8 TAkbw	6S72	M16G0n	M12C1M	M1-G62	M14G2M	SG4P	r r m
I hOarhOaNa	-172	1S2M-G62	n646C14	1S1M1G40	1SS10GS0	-G2M	r r m
I CDJaaTNu	-n72	24n1MG0n	2MP2SC0M6	2M-PSC0M2	2M-02G6	1C0P	r r m
UhOqTNu	1S-71				Pn		%
UhOqTNu	1S-72				nS		%
3AJoqTNu	4M71				nS		%
3AJoqTNu	4M72				P0		%
3bwoTNu	P271	400G6n	MS2G2	4n-G20	4n1GSn	2C04	r r m
3bwoTNu	0072	M1-G40	M10G0	M440CM	M2MG-	-G2S	r r m
3bwoTNu	0P72	M24C1-	M11G1	MS6G0	M1-G04	1C0P	r r m
3TWAOo	2P71	4n6G4P	4n1GS	4n-G26	4n-G6P	SC04	r r m
3TWbe	1S071	4n6G66	4PnG4	MSSG40	4nMG4n	1G14	r r m
3TWbe	1Sn71	4n6G0P	4n6G42	4nSGS-	4n4G4P	SG0P	r r m
3OqTNu	2-72	M-62MC1S	M2M12C01	M-nnPG6-	M--0PGP1	1G4M	r r m
3DaOoDTNu	P671	1140SGS-	12240GP6	11n-nG4n	11PPMC0n	-GS	r r m
3DaOoDTNu	PP71	11641C04	1241-G-	12Sn4G2n	12S4nC02	-G22	r r m
3NvNe	-471	n1P-GP6	n-nMSSS	n6n2G4-	n42-G00	2C01	r r m
&bemTNu	1Mh71				n6		%
&bemTNu	1Mh72				n6		%
&hJwTNu	2S-71	400C01	4n1GS6	401C00	4PSGSM	2GSP	r r m
&hJwTNu	2SM71	4P1GS0	4P4G46	401GS	40PG04	1G4-	r r m
&Tb	11P71	4P4C01	4P6GSP	4P4G6M	4PMC1M	SG10	r r m
&TDJoTNu	4071	404PG61	4P-2GS-	4n2-G4P	4P-4C01	1GP1	r r m
FeJoTNu	2-P71	4MPG24	40nG4M	40-G10	40SG2n	2G2	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beJDDe:	9Jas Jw
LJm3Ju r wo pl :	3 S6	poaD9Nu obD8 Ju b :	I P
5 wTboD3Ju r wo pl :	3 S6	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2S2- 7S0712 12:24:10	I JDJ. Two 8 Ju b :	SSn5 i L3 Gq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr -	i RvC5 CoAC	5 CoAU3 I	F oTa
VJoJqTNu	M172	MS6G 0	MS6G2P	MS6G M	MS6G -	SGS1	r r m
YDDbemTNu	10271						Ar a
YDDbemTNu	10272						Ar a
YDDbemTNu	10671						Ar a
YDDbemTNu	10672						Ar a
YDDbTNu	Pn71				n1		%
YDDbTNu	Pn72				n1		%
ZTbA	6672	4n4MG10	4n24G4P	4nS0G-	4n2MGP6	SG P	r r m
ZTbACoTNu	nS71	460G02	4PSG41	4nMG M	4P1G 6	2G4	r r m
ZTbACoTNu	n171	44PG2M	40SG0	464G12	46SG P	2G4n	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
i lNu TbTNu	2072	1g90g590	2SS0M52-	1g9MS5-1	1gg-M514	S561	r r m
i oDu Coy	12171	g-4590	1Sg0590	ggg52S	1S1S56M	9512	r r m
i esboTA	0M72	1SS650M	g9051-	1SS0522	1SSS5-6	151M	r r m
BaeTNu	1-M71	46g2524	M4--56M	MS1659g	MS405Mg	05-6	r r m
BaeTNu	1-071	40--5M0	M40-50-	4gM95g6	MSMM642	05MS	r r m
BbeylTNu	g71	gg1514	1S6g5M9	g0g566	1S1-546	459-	r r m
BTsu NDn	2Sg71				g-		%
BTsu NDn	2Sg72				g4		%
BeOu Tbb	9171						A r s
n aqu TNu	1S971	g-05-2	1S6g52g	gg951M	1SS15Mg	65Mg	r r m
n aqu TNu	1S671	g-0510	1S0g59g	1SS1502	1SS6526	051S	r r m
n aqu TNu	11171	g4S52g	1S09594	gg1569	1SS-56S	65g9	r r m
n alATNu	4-71	1S-S4S501	11g-415M6	1S001-511	11SS-150g	056-	r r m
n alATNu	4471	g6S2M5gg	1Sg4M15-9	1SSMg15S4	1S2S2259S	656g	r r m
n aemOo	1271						A r s
n aemOo	1272						A r s
n hlOeTbb	-M71						A r s
n hlOeTbb	-M72						A r s
n heOu TNu	M272	1S26569	1S10522	gg2510	1S1252	1506	r r m
n OmalD	Mg72	1S19510	1S16519	g9-5g1	1SS65Sg	15g1	r r m
n Or r be	6-72	g90M5S1	1SS9-5-4	g929592	gg2g5S6	15-0	r r m
I ysr eOs TNu	1M671						A r s
I ysr eOs TNu	1M672						A r s
EemTNu	16471						A r s
EemTNu	16472						A r s
GaqOTbTNu	16S71						A r s
GaqOTbTNu	16S72						A r s
HOlu TNu	16M71				g6		%
HOlu TNu	16M72				g9		%
poqTNu	11M71				9g		%
poqTNu	11M72				g1		%
peOo	M472	M290954M	M29Mg544	M1g0S542	M2M6g544	S5gg	r r m
peOo	M672	M26S954M	M1-645gS	MSMMS5-0	M1MS05g1	25S1	r r m
peOo	M072	M2-1-51M	M1g-65gS	M14905M4	M1g125M4	S59S	r r m
Keyr DDo	9-71						A r s
Lbaq	2S671	496256M	M-9956S	4gMg51M	MS0S51-	M5M2	r r m

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTebq :	2S2-7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTa
Lbaq	2S071	49- - 50M	M-44512	MS21516	MS665-M	M61S	r r m
Lbaq	2S971	494S526	M-94566	4g0g50S	MS69521	M5M9	r r m
LTbTNu	671				92		%
v aRobsTNu	2472	1S-g94501	1SM16252S	1S1g-S544	1S-6g254M	15M9	r r m
v aoRaobsb	MM72	ggM-514	g99452M	gg965g9	gg4154M	S5M-	r r m
v ClymqboNu	g471	gM26540	11SM25-4	g0gM592	1S124599	95S4	r r m
v ClymqboNu	gM71	g410560	1Sg6-521	ggM6590	1S1125M9	0506	r r m
v ClymqboNu	g671	g-g05-	1Sg-9511	gg6650S	1S1SS501	0501	r r m
v ClymqboNu	g071	g4g954-	1Sgg451g	g9Mg5-1	1S1105-1	0501	r r m
v ClymqboNu	g971	g42S561	1S9-M52g	1SS0156S2	1S1S95g9	05SS	r r m
8 bOqyu TNu	1MS71						Ar s
8 bOqyu TNu	1MS72						Ar s
8 TAkbl	6S72	gg2524	gg95g4	g9M6S0	gg25S9	S50S	r r m
PhOsr hOaNs	-172	1g6S155S4	2SM2-5g1	2SS6M5-S	2SS6-542	25-S	r r m
PODassTNu	-g72	MS4M-519	4gg-g50g	MS99152-	MS4245D-	S5g-	r r m
F hOqTNu	1S-71				90		%
F hOqTNu	1S-72				g1		%
3 AaoqTNu	4M71				90		%
3 AaoqTNu	4M72				gS		%
3 blboTNu	9271	g-9526	1S9M566	g0056S	1SSS5M1	056-	r r m
3 blboTNu	0072	g0-54S	g9059g	1SSS5SS	g9051S	15-M	r r m
3 blboTNu	0972	gg15-M	g94506	gg650-	ggS5gM	S561	r r m
3 TTAOo	2971	g42561	1S66549	g9g5g9	ggg56g	652M	r r m
3 TUbe	1S071	g46590	1S015-S	g9259S	1SSS5-2	654S	r r m
3 TUbe	1Sg71	g2059g	1S965g0	g9-591	ggg5M6	95S0	r r m
3 OqTNu	2-72	1S20S1564	1SM1- - 526	1S260S5MM	1S-MS1591	15-0	r r m
3 DaOoDTNu	9671	2-9SS54g	20-665g9	2401g5gS	2M2gM50g	05-2	r r m
3 DaOoDTNu	9971	2-9S650S	2016M51S	24046564	2M2-g549	6596	r r m
3 NfNe	-471	19-145g4	22S1M5g1	1g96151S	2SS6-5g9	g526	r r m
&bemTNu	1Mg71				g4		%
&bemTNu	1Mg72				g0		%
&hallTNu	2S-71	g665g1	1SgM540	g9M5M4	1S1M5g0	6594	r r m
&hallTNu	2SM71	g01529	1S96599	g065M6	1S115M0	654M	r r m
&Tb	11971	g4952g	1S94569	gg4516	1SSg5SM	6599	r r m
&TaoTNu	4071	g4M05gg	1S6065SM	1S1M2514	1SSgM5-g	65SM	r r m
. eaoTNu	2-971	gM05-	111450S	g94522	1S1950M	9526	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	d r beaDDe:	Jaswal
Lam3 au r lb pl :	3 S0	posDaNu obD8 au b :	P9
n lTboD3 au r lb pl :	3 S0	I TNDDCo CaADDe:	1
I aDb t &Tu b i AcNTbq :	2S2- 7S0712 12:20:19	I aDaCTb 8 au b :	S1Sn i L3 5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF 3 I	. oTs
VaoaqTNu	M172	gg45gg	1SS05g-	gg25S9	gg95-	S59M	r r m
YDDbemTNu	10271						Ar s
YDDbemTNu	10272						Ar s
YDDbemTNu	10671						Ar s
YDDbemTNu	10672						Ar s
YDDaTNu	9g71				gS		%
YDDaTNu	9g72				g-		%
ZTbA	6672	ggMM50M	1S21M55S6	1SS1- 544	1SS6154-2	15- M	r r m
ZTbAOoTNu	gS71	g4M5gg	1111500	g0154g	1SSg50M	9594	r r m
ZTbAOoTNu	g171	gM-520	111S569	1SS65- 1	1S2- 542	059-	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0e:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTs
i lNu TbTNu	20 2	g- M-150M	g- M715-2	1S2- 04566	gggg65S-	254g	r r m
i oDu Coy	121 1	S5M6	S562	S5-2	S560	2S5g6	r r m
i esboTA	0M2	S570	S54S	S5M0	S54M	2757S	r r m
BaeTNu	17M1	750g	75MS	75Mg	7567	455-	r r m
BaeTNu	170 1	756-	455 0	756S	750-	6501	r r m
Bbey/lTNu	g 1	S527	S51-	S527	S521	1M516	r r m
BTsu NDn	2Sg 1				- 7		%
BTsu NDn	2Sg 2				- -		%
BeOu Tbb	- 1 1						Ar s
n aqu TNu	1S- 1	S5g2	S500	S5-0	S5-M	g54S	r r m
n aqu TNu	1S6 1	75MM	156S	15-2	2572		r r m
n aqu TNu	111 1	S5M2	S5M4	S546	S5M1	- 502	r r m
n alATNu	47 1	46240254 4	MMSgg25-g	4- SM-S561	4g- S1M572	g57g	r r m
n alATNu	44 1	40SS7- 5-1	M4g1M15-2	40g6gM64M	4gg62- 56g	- 564	r r m
n aemOo	12 1						Ar s
n aemOo	12 2						Ar s
n hlOeTbb	7M1						Ar s
n hlOeTbb	7M2						Ar s
n heOu TNu	M2 2	M51-	M544	M52-	M57S	25MM	r r m
n OmalD	Mg 2	2574	2570	257M	2576	S561	r r m
n Or r be	67 2	757S	752g	7574	7571	S5-1	r r m
l ysr eOs TNu	1M6 1						Ar s
l ysr eOs TNu	1M6 2						Ar s
EemTNu	164 1						Ar s
EemTNu	164 2						Ar s
GaqOTbTNu	16S 1						Ar s
GaqOTbTNu	16S 2						Ar s
HOlu TNu	16M1				g1		%
HOlu TNu	16M2				g0		%
poqTNu	11M1				- 4		%
poqTNu	11M2				g1		%
peOo	M4 2	24gS675M0	2M1M-45gM	2401445S6	24g2645 1g	S5-g	r r m
peOo	M6 2	2467- 156g	2M70425-M	24- M145M1	24gM4657M	15M2	r r m
peOo	M0 2	24- 66452g	24046S562	2M204M66g	24g6275M7	1511	r r m
Keyr DDo	- 7 1						Ar s
Lbaq	2S6 1	2566	250g	25-M	2500	757M	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD0e:9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD0Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADDe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTb
Lbaq	2S0 1	755 4	25M6	2566	250M	g51S	r r m
Lbaq	2S- 1	25g6	2501	2507	25- S	45g1	r r m
LTDTNu	6 1				06		%
v aRobsTNu	24 2	4gg- M452M	4g01425D2	4gg66- 5Mg	4g- - - - 5M2	S57S	r r m
v aoRaobsb	MM2	0527	052-	0547	0571	1541	r r m
v Clymqboi Nu	g4 1	45MS	7501	450S	4571	12514	r r m
v Clymqboi Nu	gM1	4517	756S	7506	75- 7	0511	r r m
v Clymqboi Nu	g6 1	457M	750S	452g	4511	- 5- 1	r r m
v Clymqboi Nu	g0 1	75gg	7561	4522	75g4	05- 0	r r m
v Clymqboi Nu	g- 1	4576	7512	45S-	75- M	165g2	r r m
8 bOqyu TNu	1MS 1						Ar s
8 bOqyu TNu	1MS 2						Ar s
8 TAkbl	6S 2	M5S0	45- 4	4506	45- g	7520	r r m
PhOsr hOeNs	71 2	745g2	0501	12566	1752g		r r m
PODassTNu	7g 2	24- 1g- 54g	24g7S7544	2M224M5S6	24gg1M560	S5- 4	r r m
F hOqTNu	1S7 1				0g		%
F hOqTNu	1S7 2				- M		%
3 AaoqTNu	4M1				- 7		%
3 AaoqTNu	4M2				gS		%
3 blboTNu	- 2 1	M50g	M574	45MM	M527	115g4	r r m
3 blboTNu	00 2	7524	M5Mg	4541	4541	26560	r r m
3 blboTNu	0- 2	M52-	4566	- 564	651g	745MM	r r m
3 TTAOo	2- 1	1S5S4	1M51-	175- 6	175S7	2S54-	r r m
3 TUbe	1S0 1	S516	S522	S516	S51-	1- 5MM	r r m
3 TUbe	1Sg 1	S51-	S51g	S516	S51-	1S576	r r m
3 OqTNu	27 2	4gM2715 1M	MS7- 17540	4g0677517	4g- - g25M-	S5- g	r r m
3 DaOoDTNu	- 6 1	- 51S	655-	65- 0	0522	1S566	r r m
3 DaOoDTNu	- - 1	0512	M5S0	6562	6520	105SS	r r m
3 NifNe	74 1	7152S	17- 2522	- 7502	447527	1- 75g2	r r m
&bemTNu	1Mg 1				gS		%
&bemTNu	1Mg 2				g6		%
&hallTNu	2S7 1	S571	S572	S52g	S571	45g7	r r m
&hallTNu	2SM1	S574	S57S	S577	S572	M5M0	r r m
&Tb	11- 1	S56S	S5Mg	S5M-	S5Mg	15M2	r r m
&DaoTNu	40 1	25g7	15- S	7517	2562	2052g	r r m
. eaoTNu	27- 1	S527	S52S	S527	S522	056g	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	d r beaD:e9	Jaswal
Lam3 au r lb:pl :9	3 S-	posD8Nu obD8 au b:9	P-
n lTboD3 au r lb:pl :9	3 S-	l TNDCo:CaADe:9	1
l aDb:t :&Tu b:i AcNTbq:9	2S27 S0 12:1297S916	l aDaCTb:8 au b:9	S11n i L3 5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br 7	i UR5n CoA5	n CoAF 3 l	. oTs
VaoaqTNu	M1 2	S57M	S57S	S570	S574	g54M	r r m
YDDbemTNu	102 1						Ar s
YDDbemTNu	102 2						Ar s
YDDbemTNu	106 1						Ar s
YDDbemTNu	106 2						Ar s
YDDbTNu	- g 1				- 6		%
YDDbTNu	- g 2				g4		%
ZTbA	66 2	1S5g1	1S5Mg	1S5- 0	1S50g	15Mg	r r m
ZTbACoTNu	gS 1	S5M4	S5M4	S562	S5M6	- 5- 1	r r m
ZTbACoTNu	g1 1	S5M4	S561	S5M4	S5Mg	75M4	r r m

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- 8pCTDwe t 8pJ8&JaJ	3- 7 S0	&8bT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

Nwlwe pTpl	Mwl l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
q8be cCbe	2092	4y: .uy	4u2.16	4u1.Sy	4u .02	1.46	t t r
qCTe 5Ch	12191	1y0.21	1u4.6u	1u6. u	1uy.4y	: . 6	t t r
qll pCcd	0 92	2S: .1	2Sy.S0	2S6.SS	2S6.Su	1.44	t t r
Bwlcbe	1: 91	yu.: 1	y1.: 1	y4.yu	y4.u0	: .6y	t t r
Bwlcbe	1: 091	yu.y1	yS. 1	y2.10	y: .u6	4.04	t t r
Bplh8Bbe	y91	yu.16	y4. u	1SS.2u	y0.60	2.y	t t r
Bdc e bT%	2Sy91				1S1		E
Bdc e bT%	2Sy92				1S2		E
Bl5e cCp	u191						dt l
- woe cbe	1Su91	uy.21	u1.u4	u2.6S	u4.	4.0y	t t r
- woe cbe	1S691	u .0	0u.6u	04.6S	0y.6u	0.Su	t t r
- woe cbe	11191	1S4.uy	yy.y:	1SS.40	1S1.06	2.60	t t r
- w8lcbe	4: 91	1u: S.12	1001.0u	10 u.yy	10u6.y6	2.12	t t r
- w8lcbe	4491	1u: : .11	10 S.: 4	1uS4.: 2	10y .y2	2.: 4	t t r
- wlr 5C	1291						dt l
- wlr 5C	1292						dt l
- %5lcCp	: 91						dt l
- %5lcCp	: 92						dt l
- %l5e cbe	292	y .S4	y .41	y4. 1	y4.yy	S.40	t t r
- 5r w8T	y92	yu.0	y0.4S	y0. 1	y0.uu	S.00	t t r
- 5t t pl	6: 92	y6.1:	y6.Sy	y: .11	y .11	1.u2	t t r
&hl t l5l cbe	1 691						dt l
&hl t l5l cbe	1 692						dt l
Glr cbe	16491						dt l
Glr cbe	16492						dt l
Hwo58Ccbe	16S91						dt l
Hwo58Ccbe	16S92						dt l
K58e cbe	16 91				yy		E
K58e cbe	16 92				1S1		E
3Ccbe	11 91				1SS		E
3Ccbe	11 92				1S1		E
35C	492	1yu .0y	1y6 .4S	1y04.: 6	1y0 .1u	S. 2	t t r
35C	692	2S: 2.1u	2S1: .6S	2S2 .1:	2S2: .64	S.46	t t r
35C	092	1y2S.u0	1uy .y2	1y1y.y4	1y12.24	S.04	t t r
klht T5C	u: 91						dt l
Lpwo	2S691	1y4.06	1y2.4u	1y: . u	1y: .6S	S. y	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	n t plwT5lJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3Cl Tlbe CpTJmwe pJa	Nu
- 8pCTDwe t 8pJ8&JaJ	3- 7 S0	&cbT5CJFwdT5lJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFcbJmwe pJa	S1 3- 7.o

NwIwe pTpl	MwI l	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
Lpwo	2S091	1y2.: 2	1u .01	1uu.Su	1uu.01	1.00	t t r
Lpwo	2Su91	2S .61	2SS.S:	1yy.0u	2S1.u1	1.6:	t t r
LdP%cbe	691				y4		E
MwgCpl cbe	2492	11: S. u	1120.46	112u.u4	112u.y6	S.14	t t r
MwCgwCpl p	92	y: .2S	y4.10	y: .46	y: .61	S. :	t t r
M58hr opCbe	y491	S.10	S.14	S.1u	S.16	12.16	t t r
M58hr opCbe	y 91	S.11	S.1:	S.Sy	S.11	2S.S4	t t r
M58hr opCbe	y691	S.1:	S.1u	S.1u	S.16	1u.26	t t r
M58hr opCbe	y091	S.Sy	S.11	S.Sy	S.1S	14.24	t t r
M58hr opCbe	yu91	S.12	S.12	S.12	S.12	2.16	t t r
mp5ohe cbe	1 S91						dt l
mp5ohe cbe	1 S92						dt l
mcdf p8	6S92	1Sy.:	1S0.20	1S6.y2	1S0.u	1.22	t t r
N%5l t %5lbl	: 192	9S.: 2	91u.0	92: .4	914.10		t t r
N5TWl cbe	: y92	1u6y.0y	1u 4.: u	1u: S.20	1u 1.4u	1.Su	t t r
R%5ocbe	1S: 91				yy		E
R%5ocbe	1S: 92				1S2		E
DdwCocbe	4 91				yu		E
DdwCocbe	4 92				yy		E
Dp8pCcbe	u291	2Sy.11	21S.2y	2S . :	2Su.: 1	1.1y	t t r
Dp8pCcbe	0092	2S: .SS	214.yy	2S4.01	2S0. 0	: .1:	t t r
Dp8pCcbe	0u92	21: .64	21y.26	210.: u	216.06	1.: 2	t t r
Dc8d5C	2u91	S.4	S.1y	S.2:	S.2y	4u.yS	t t r
Dc8vpl	1S091	4y.u6	46.6y	40.: 0	40.y0	: .4u	t t r
Dc8vpl	1Sy91	4y.4S	46.0u	40.:	40.u4	2.uy	t t r
D5ocbe	2: 92	1y6y. u	1y S.Su	1y42.60	1y 4.11	S.01	t t r
DTT5CTbe	u691	S.44	S.21	S.24	S.: S	42.10	t t r
DTT5CTbe	uu91	S.: 1	S.2	S.24	S.20	14. 1	t t r
Db8%l	: 491	106.4y	94: S.SS	91 2.01	91: .41		t t r
Aplr cbe	1 y91				1S1		E
Aplr cbe	1 y92				1S2		E
A%w8bbe	2S: 91	2S6.6u	2S: .10	1y0.y:	2S2. y	2.10	t t r
A%w8bbe	2S 91	21: .62	21S.1	211.yS	211.uy	S.u2	t t r
AcC	11u91	S.12	S.S:	S.S1	S.S	1Su.y	t t r
AcTWCcbe	4091	S.Su	S.S	S.S4	S.S	: y.02	t t r
UlwCcbe	2: u91	S.S1	S.S1	S.S1	S.S1	: .SS	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r pIJa	LB1264S0	n t pIwT5IJa	swl Pw8
Lwr JDwe t 8pJ8&JaJ	3- 7 S0	3C1 TIbe CpTJmwe pJa	Nu
- 8pCTJDwe t 8pJ8&JaJ	3- 7 S0	&c8bT5CJFwdT5IJa	1
&wTpJ JAce pJqdCbdpoJa	2S2: 9S0912J1: a14aS:	&wTwFc8pJmwe pJa	S1 3- 7.o

NwIwe pTpI	MwI I	- 5CRpt 1	- 5CRpt 2	- 5CRpt :	qvg.J- 5Cd.	- 5CdRD&	UCdT
7wCwodbe	192	y6.4y	y0.1:	y0.6	y0.Sy	S.6S	t t r
YTTpIr dbe	10291						dt I
YTTpIr dbe	10292						dt I
YTTpIr dbe	10691						dt I
YTTpIr dbe	10692						dt I
YTTrdbe	uy91				yu		E
YTTrdbe	uy92				1S2		E
ZdCd	6692	1yS. 2	1uy.y	1u6.6S	1uy.S2	1.12	t t r
Zdcd5Cdbe	yS91	S.S2	S.S2	S.S1	S.S2	41.1:	t t r
Zdcd5Cdbe	y191	S.Su	S.Su	S.S0	S.S0	.S2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t 8p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- 8pCT9Dwe t 8p9&9J9	3- BS07	&8bT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129l Jl0Jla	&wTwUd8p9mwe p9J	S16- - B. Fo

Nwlwe pTpl	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
q8be cCbe	20:2	SF22	SF56	:SF16	SF54	40aFua	t t r
qCTe 5Ch	121:1	SF12	SF11	SF16	SF1	21F06	t t r
qll pCcd	07:2	SF5u	SF56	SF5	SF57	40Fau	t t r
Bwlcbe	1 7:1	SF51	SF5	SF5	SF52	66F67	t t r
Bwlcbe	1 0:1	SF52	SF51	SF5	SF52	77F7S	t t r
Bplh8&be	a:1	SF5	SF5	SF52	SF5	1aFu	t t r
Bdc e bT%	2Sa:1				1S2		E
Bdc e bT%	2Sa:2				1SS		E
Bl5e cCp	u1:1						dt l
- woe cbe	1Su:1	:SF51	SF1u	SF11	SF5a	1S4F0u	t t r
- woe cbe	1S6:1	:SF66	:7F42	: F5S	: F5		t t r
- woe cbe	111:1	SF52	:SF57	:SF51	:SF51		t t r
- w8lcbe	4 :1	:2Fa2	:SF S	:2Fa7	:2F56		t t r
- w8lcbe	44:1	1 F1a	17F0a	14Fa7	14F64	aF5a	t t r
- wlr 5C	12:1						dt l
- wlr 5C	12:2						dt l
- %5lcCp	7:1						dt l
- %5lcCp	7:2						dt l
- %5e cbe	72:2	:SF51	:SF52	:SF51	:SF52		t t r
- 5r w8T	7a:2	SF52	SF5S	SF52	SF51	6uF1S	t t r
- 5t t pl	6 :2	SF5u	SF56	SF50	SF50	14F47	t t r
&hl t l5l cbe	176:1						dt l
&hl t l5l cbe	176:2						dt l
. lr cbe	164:1						dt l
. lr cbe	164:2						dt l
Gwo58&Ccbe	16S:1						dt l
Gwo58&Ccbe	16S:2						dt l
H58e cbe	167:1				1SS		E
H58e cbe	167:2				1SS		E
3Ccbe	117:1				aa		E
3Ccbe	117:2				1SS		E
35C	74:2	1F61	1F2	1F00	1F7	1uF2	t t r
35C	76:2	SF74	SF u	SF 0	SF4	21F07	t t r
35C	70:2	:1F56	:SF60	:SF71	:SF04		t t r
KIht T5C	u :1						dt l
Lpwo	2S6:1	SF50	SF57	SF50	SF56	10F0	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129I J10J1a	&wTwUc&p9mwe p9J	S16- - B. Fo

NwIwe pTpI	y wl I	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
Lpwo	2S0:1	SF5S7	SF5S4	SF5S7	SF5S7	17F6u	t t r
Lpwo	2Su:1	SF5S0	SF5S0	SF5S7	SF5S6	10Fu1	t t r
LcT%cbe	6:1				a		E
y wMCpI cbe	24:2	SF17	SF 1	SF u	SF2u	4SFu6	t t r
y wCMwCpI p	77:2	SF5S	SF5S1	SF5S2	SF5S1	12 F21	t t r
y 58hr opCbe	a4:1	SF5S7	SF5S	SF5S1	SF5S	61Fu	t t r
y 58hr opCbe	a7:1	SF5S2	SF5SS	SF5SS	SF5S1	16aF 6	t t r
y 58hr opCbe	a6:1	SF5S2	SF5S2	SF5S2	SF5S2	uF2S	t t r
y 58hr opCbe	a0:1	SF5S2	SF5SS	SF5S2	SF5S1	117Fu1	t t r
y 58hr opCbe	au:1	SF5S1	SF5S1	SF5S1	SF5S1	44F60	t t r
mp5ohe cbe	17S:1						dt I
mp5ohe cbe	17S:2						dt I
mcdkp8	6S:2	SF5S2	SF5S2	:SF5S1	SF5S1	17SFa7	t t r
N%5I t %5IbI	1:2	:21Fau	26F0	:2SF60	:7F 1		t t r
N5TwI cbe	a:2	uF66	4Fu	6FaS	6FuS	2uF2	t t r
v %5ocbe	1S :1				1S1		E
v %5ocbe	1S :2				aa		E
DdwCocbe	47:1				aa		E
DdwCocbe	47:2				a0		E
Dp&pCcbe	u2:1	:SF60	SF5S1	:SF 6	:SF 4		t t r
Dp&pCcbe	00:2	SF04	:SF u	:SF u	:SF5S1		t t r
Dp&pCcbe	0u:2	SF16	SFu2	SF62	SF7	64FS2	t t r
Dc&d5C	2u:1	SF5S1	SF5S4	:SF5S0	:SF5S1		t t r
Dc&gpI	1S0:1	SF5S2	SF5S4	SF5S4	SF5S	27F67	t t r
Dc&gpI	1Sa:1	SF5S4	SF5S2	SF5S4	SF5S	7Fu4	t t r
D5ocbe	2 :2	24F S	21F4	22F60	22FuS	6F 2	t t r
DTI5CTcbe	u6:1	SF5S7	SF5Su	:SF5S1	SF5S4	1S0F10	t t r
DTI5CTcbe	uu:1	SF5S7	SF5S1	SF5S1	SF5S2	124Faa	t t r
Dbc&bI	4:1	:4uuF0	:1a1F62	:26 Fa7	: 14F00		t t r
ApIr cbe	17a:1				1SS		E
ApIr cbe	17a:2				1SS		E
A%w&bbe	2S :1	SF5Sa	SF5S0	SF5Su	SF5Su	16F7	t t r
A%w&bbe	2S7:1	SF5Su	SF5Su	SF5Su	SF5Su	FaS	t t r
AcC	11u:1	:SF5S	:SF5S	SF5SS	:SF5S2		t t r
AcTwCcbe	40:1	:SF1S	:SF5S	SF5SS	:SF5S4		t t r
RIwCcbe	2 u:1	SF5SS	SF5SS	SF5SS	SF5SS	26aF 2	t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9mbe r pI9J	LB1264S0	n t pIwT5I9J	swl Pw8
Lwr 9Dwe t &p9&9J9	3- BS07	3C1 Tlbe CpT9mwe p9J	Nu
- &pCT9Dwe t &p9&9J9	3- BS07	&cbT5C9UwdT5I9J	1
&wTp9 9Ace p9qdCbdpo9J	2S2 :S0:129I J10J1a	&wTwUc&p9mwe p9J	S16- - B. Fo

NwIwe pTpI	y wl l	- 5Cv pt 1	- 5Cv pt 2	- 5Cv pt	qgMF9- 5CdF	- 5Cdv D&	RCdT
VwCwodbe	71:2	SF5	:SF51	SF5S	SF51	S0Fu4	t t r
YTTpIr dbe	102:1						dt l
YTTpIr dbe	102:2						dt l
YTTpIr dbe	106:1						dt l
YTTpIr dbe	106:2						dt l
YTTrdbe	ua:1				aa		E
YTTrdbe	ua:2				1SS		E
ZdCd	66:2	SF57	SF50	SF27	SF12	a1F64	t t r
Zdcd5Cdbe	aS:1	SF5S	SF51	SF5S	SF51	01Fu1	t t r
Zdcd5Cdbe	a1:1	:SF52	:SF52	:SF51	:SF52		t t r

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aaa	3-7 S0:	35PTDer 5lTabl r las	um
-Nl5Ta7lrtNla&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M24SCm4	Mm16MCm0	Mm21:C49	M02SmC01	1C0:	ttp
5Tcn5y	121J1	1C4:	1C90	1C24	1C9:	0CC2	ttp
DPl5cq	0:J2	SCm	SC69	SCm	SC6S	:CS6	ttp
BlDcer	19:J1	1C4m	1C9:	1C4S	1C41	4C6	ttp
BlDcer	190J1	1C42	1C9S	1C94	1C96	4C41	ttp
BlDyNler	MJ1	SC9S	SC92	SC2m	SC9S	6C40	ttp
BcPreTn	2SMJ1				M9		%
BcPreTn	2SMJ2				M4		%
BDnrc5l	m1J1						qtP
-lOrcer	1SmJ1	10C10	14CC6	14Cm4	1:CM	mCC6	ttp
-lOrcer	1S6J1	J1C4S	J1Cmm	J:CS9	J2CC0		ttp
-lOrcer	111J1	SC6	SC6M	SC4M	SCm	1mC2M	ttp
-lNqcer	49J1	M2m4MC6S	M9m4MC69	M92:C46	M4SSmC29	1C92	ttp
-lNqcer	44J1	M2MC06CM1	M1M9CS9	M2mMmC20	M26SMC4S	SC62	ttp
-lDpn5	12J1						qtP
-lDpn5	12J2						qtP
-hNDc5l	9:J1						qtP
-hNDc5l	9:J2						qtP
-hDnrcer	:2J2	1MC4S	1MC19	1MCCS	1MC41	1C4m	ttp
-npl NT	:MJ2	1C2S	1C22	1C1m	1C2S	1C66	ttp
-nttlD	69J2	0C24	0C4S	0C12	0C2:	1CM6	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GlOnNscer	16SJ1						qtP
GlOnNscer	16SJ2						qtP
HnNlcer	16:J1				M0		%
HnNlcer	16:J2				Mm		%
35Ocer	11:J1				M2		%
35Ocer	11:J2				M9		%
3Dn5	:4J2	1SSM04C10	MMSm4C94	MMS21CS0	MM6M9CM	1C11	ttp
3Dn5	:6J2	MmM2mC64	1SS2MSCCm	Mm6m2CS9	MM9SSC4M	SCm0	ttp
3Dn5	:0J2	1S1264C42	1S9SS9C9m	1S10:SCMS	1S2SS6C29	SCmm	ttp
KDytTn5	m9J1						qtP
LlIO	2S6J1	4C9:	4C61	4Cm0	4C61	:C64	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aaa	3-7 S0:	35PTDer 5lTabl r las	um
-Nl5Ta7lrtNla&aaa	3-7 S0:	&dNTn5alqTnDas	1
&lTaiaAcr la qdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablr las	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LllO	2S0J1	4C14	4C24	4C2S	4C1M	1C22	ttp
LllO	2SmJ1	4C29	4C9M	4CCS	4C90	9CS4	ttp
LdTher	6J1				mm		%
glv5lPer	24J2	M4020CM9	M62S2C62	M S::C9M	M 92mC6:	SC01	ttp
gl5vl5lPl	::J2	0C9m	0C61	0C62	0CC9	1C01	ttp
gnNypCl5er	M4J1	1466C9S	140mCM2	14MSC10	140mC6M	SC09	ttp
gnNypCl5er	M J1	10M4CCM	101MCCM	10MCCC9	100SCCS	2CCS	ttp
gnNypCl5er	M6J1	1061CCM	10S2CMm	10:4CM9	109MCm4	1Cm4	ttp
gnNypCl5er	M0J1	10mmC62	10:1CC1	100mCm	1002CC0	1CSm	ttp
gnNypCl5er	MmJ1	1mSMCM1	1069C6M	10MMC9m	10MSCCM	1C9:	ttp
blnOyr er	1:SJ1						qtP
blnOyr er	1:SJ2						qtP
bcqklN	6SJ2	:CM6	:Cm1	6CSm	:CM	2C2:	ttp
uhnPthnDeP	91J2	M0M6SCCm	MMSS2C69	M00:4CCS	Mm29MCCS	SC6m	ttp
unTPPer	9MJ2	M 0M9C96	M4m26C9:	M611mCm	M:0MCC2	SCCS	ttp
UhnOer	1S9J1				M1		%
UhnOer	1S9J2				M9		%
7ql5Oer	4:J1				M2		%
7ql5Oer	4:J2				M1		%
7lN5er	m2J1	JSCS6	JSC24	JSCSM	JSC19		ttp
7lN5er	00J2	JSC9m	JSC9m	JSC9m	JSC9m		ttp
7lN5er	0mJ2	JSC9m	JSC61	SC10	JSC2m		ttp
7dqn5	2mJ1	2C92	2C10	2C2S	2C29	9C0:	ttp
7dRD	1S0J1	SCS2	SCS2	SCS9	SCS2	10CC0	ttp
7dRD	1SMJ1	SCS2	SCS4	SCS2	SCS2	41CS0	ttp
7nOer	29J2	1S260MC6:	1S2141C4M	1S1006C6:	1S21MMC26	SC44	ttp
7TDn5Ter	m6J1	91CM1	9SCmS	91CM9	91C:	2CS:	ttp
7TDn5Ter	mmJ1	92C60	91C4m	91C2	91CmM	2C11	ttp
7eNeD	94J1	04::C4M	04S61C4:	04MS:C42	04:S6C4:	SC0	ttp
AlDper	1:MJ1				M6		%
AlDper	1:MJ2				Mm		%
AhlNter	2S9J1	SC24	SC24	SC1M	SC22	12CS1	ttp
AhlNter	2S:J1	SC1m	SC2:	SC2S	SC21	10C90	ttp
Ac5	11mJ1	SC94	SC29	SC41	SC99	2mC4M	ttp
AcT5er	40J1	1MS6C2:	1M62C66	1M62C24	1M49CC1	1C60	ttp
FD5er	29mJ1	SCS9	SCS2	SCS9	SCS9	19C91	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDTnDas	wlP8lN
LIpa7lrtNa&aa	3-7 S0:	35PTDer 5lTabIrlas	um
-Nt5Ta7lrtNa&aa	3-7 S0:	&dNTn5alqTnDas	1
&lTiaAcrlaqdedDOas	2S29JS0J12a19s2Ss24	&lT.dNablrlas	S103-7 CC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	SC24	SC1:	SC1m	SC1M	2:CS0	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M9		%
YTDcer	mMJ2				M4		%
Zc5q	66J2	1SC4m	1SCM2	1SCS1	1SC40	4C96	ttp
ZcDqn5cer	M6J1	SCS2	SCS1	SCS9	SCS2	09C91	ttp
ZcDqn5cer	M1J1	SCS4	SCS2	SCS9	SCS9	26CGM	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otIDTnDas	wIP8IN
LIpa7IrtNa&aa	3-7 BS0:	5PTDer 5lTabIrIas	um
-N5TA7IrtNa&aa	3-7 BS0:	&dNTn5aIqTnDas	1
&ITaiaAcrIaqdedDOas	2S29JS0J12a19s29s19	&IT.dNabIrIas	S1m3-7BCC

ulDrITD	gIPP	-n5UIt1	-n5UIt2	-n5UIt9	RvGan5qC	-n5qU7&	F5dP
Ner 5cer	20J2	M644M90	M10mCS0	M4120C4M	M2:1C6:	1C22	ttp
5Tcn5y	121J1	2SC9:	1M96	2SC24	1MCMm	2C01	ttp
DPI5cq	0:J2	21CS0	2SCCM	2SCCM	2SC0m	SC00	ttp
BIDcer	19:J1	1MCM	1MCC6	2SC1:	1MCM	SCMm	ttp
BIDcer	190J1	21CS9	2SC1M	1MC09	2SC9:	9CS9	ttp
BIDyNer	MJ1	1MC6	1MC12	1MCCM	1MC9	2CS1	ttp
BcPreTn	2SMJ1				M4		%
BcPreTn	2SMJ2				M6		%
BDnr 5I	m1J1						qtP
-IOrcer	1SmJ1	9SC6m	2MC69	9SC91	9SC21	1C06	ttp
-IOrcer	1S6J1	12C12	1SC04	12CS1	11C66	6CSm	ttp
-IOrcer	111J1	2SC1S	1mCM4	1MCM	1MC4	2CM0	ttp
-INqcer	49J1	M0024C0S	M9S42C49	M9S2SC09	M4:M6CS2	2C06	ttp
-INqcer	44J1	M40:4C6m	M6mMCC10	M99:0C9m	M9SS9CSm	2C1S	ttp
-IDpn5	12J1						qtP
-IDpn5	12J2						qtP
-hNDc5I	9:J1						qtP
-hNDc5I	9:J2						qtP
-hDnrcer	:2J2	9mC1m	90C04	90CC0	90CM9	SC0	ttp
-npINT	:MJ2	2SC24	2SC9:	1MC6m	2SCSM	1CCM	ttp
-nttID	69J2	26C1S	2:C0S	2:C9m	2:CC6	1C4S	ttp
&yPtDnPcer	1:6J1						qtP
&yPtDnPcer	1:6J2						qtP
EDpcer	164J1						qtP
EDpcer	164J2						qtP
GIOnNscer	16SJ1						qtP
GIOnNscer	16SJ2						qtP
HnNcer	16:J1				M0		%
HnNcer	16:J2				1SS		%
5Ocer	11:J1				M2		%
5Ocer	11:J2				M		%
3Dn5	:4J2	1SS261C06	MM69SC91	1SS41MCC2	1SS1S9CM6	SC42	ttp
3Dn5	:6J2	1SS2m2C46	1SS40MC19	1SS62:CC:	1SS462C44	SC10	ttp
3Dn5	:0J2	1SS4m6C29	1SS261CC0	MM MC9M	1SS11:C19	SC46	ttp
KDytTn5	m9J1						qtP
LIIO	2S6J1	26CCM	24CCM	2:C26	2:C6:	9C0M	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla&aaa	3-7 BS0:	35PTDer 5lTabrlas	um
-Nt5Ta7lrtNla&aaa	3-7 BS0:	&dNTn5alqTnDas	1
&lTaiaAcrlaqdedDOas	2S29JS0J12a19s29s19	&lT.dNablrlas	S1m3-7BCC

ulDrlTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvGan5qC	-n5qU7&	F5dP
LlIO	2S0J1	2:0Mm	24G46	24Gm1	2:GSm	9Clm	ttp
LlIO	2SmJ1	2:0M4	24G46	2:GSM	2:C16	20M	ttp
LdTher	6J1				m0		%
glv5lPer	24J2	M4049G91	M966C6	M4m6Gm4	M4MmmGMS	SG9:	ttp
gl5vl5lPl	::J2	26C1	26C19	2:G20	2:0M0	2G4:	ttp
gnNypCl5er	M4J1	14M0G9	1:1MG24	1:S1G92	1:S6C16	SG06	ttp
gnNypCl5er	MJ1	10m6G24	1000Clm	1062G2M	100:G24	SG6m	ttp
gnNypCl5er	M6J1	100SG66	1096Gm0	10mmGM9	106:G4M	1CS	ttp
gnNypCl5er	M0J1	10m4G6S	1001GMm	1mS0C1:	10m0GM1	1GSS	ttp
gnNypCl5er	MmJ1	1m11GS6	1040G69	1m12Gm4	10MSC1	2GS0	ttp
blnOyrer	1:SJ1						qtP
blnOyrer	1:SJ2						qtP
bcqklN	6SJ2	240GMM	2:G2m	2:GS:	2:C1	SG6S	ttp
uhnPthnDeP	91J2	Mm24GmS	M0020G12	M14mG49	M0199G4:	1Gm2	ttp
unTPPer	9MJ2	Mm0M4Gm9	M9SSSGm1	M6S:1G0:	MM4MG19	9GS2	ttp
UhnOer	1S9J1				MS		%
UhnOer	1S9J2				M9		%
7ql5Oer	4:J1				M4		%
7ql5Oer	4:J2				M9		%
7lN5er	m2J1	1MG96	10G62	10G0:	1mG24	:G9S	ttp
7lN5er	00J2	16G2M	21G9M	2SC1	1MG4S	14GS6	ttp
7lN5er	0mJ2	21G4M	1MGS:	2SGS6	2SG2S	6GS0	ttp
7dqn5	2mJ1	2CS	2GSm	2G29	2G20	MG9m	ttp
7dRD	1S0J1	1MGS1	10G66	10Gmm	1mGlm	90Mm	ttp
7dRD	1SMJ1	1mGm4	10G09	1mG99	1mG9S	9GS4	ttp
7nOer	29J2	1SSmS:Gm9	1SS9SmG09	1SS6:9C16	1SS:mMG24	SG2:	ttp
7TDn5Ter	m6J1	99G22	910MS	99G2S	92G00	2G91	ttp
7TDn5Ter	mmJ1	92G24	91G6M	92G06	92G29	1G60	ttp
7eNeD	94J1	0MS44G2m	029mmGS	02:1SG41	04640GmS	:GlS	ttp
AlDper	1:MJ1				M0		%
AlDper	1:MJ2				Mm		%
AhlNter	2S9J1	21G49	2SG1:	2SGm	2SG02	9G1:	ttp
AhlNter	2S:J1	21G90	1MGM4	2SC4	2SG62	9G4M	ttp
Ac5	11mJ1	SG91	SG99	SG92	SG92	2G2:	ttp
AcT5er	40J1	2S16G2m	1MSG21	2SS9G16	1MmMGm	1G06	ttp
FD5er	29mJ1	SGS9	SGS2	SGS9	SGS9	mGS6	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBaber plDas	LB1264S0	otlDTnDas	wlP8lN
Llpa7lrtNla8&aaa	3-7 BS0:	35PTDer 5lTabl r las	um
-Nl5TA7lrtNla8&aaa	3-7 BS0:	&dNTn5alqTnDas	1
&lTiaAcr la qdedDOas	2S29JS0J12a19s29s19	&lT.dNlabl r las	S1m3-7BCC

ulDr lTD	glPP	-n5Ult1	-n5Ult2	-n5Ult9	RvCa n5qC	-n5qU7&	F5dP
Vl5lOcer	:1J2	1MCS	1MC26	1MCm	1MCm	1C4:	ttp
YTTDpcer	102J1						qtP
YTTDpcer	102J2						qtP
YTTDpcer	106J1						qtP
YTTDpcer	106J2						qtP
YTDcer	mMJ1				M4		%
YTDcer	mMJ2				M0		%
Zc5q	66J2	2MC0	2MC24	2mC04	2MC1m	1C49	ttp
ZcDqn5cer	M6J1	SCS2	SCS9	SCS9	SCS9	26Cm9	ttp
ZcDqn5cer	M1J1	SCS9	SCSS	SCSS	SCS1	146Cm	ttp

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb cOcmb	20 2	J21J. F46	JSJ11F74	JS612F2S	J1S. 4F77	1FN1	DDe
q CTb 5Ch	121 1	J7NF41	4. 0FJ4	4. 6F. .	J1SF. N	4F6J	DDe
q pwr Ccd	0J 2	J27F0J	J20F0J	J1JF17	J22F21	1F24	DDe
Bspcmb	17J 1	20JSFNJ	2JN0FSJ	2J71F4N	2627F17	4F7J	DDe
Bspcmb	170 1	26. SF10	2J17FJ4	2JSJF41	2J6. F01	4FS6	DDe
Br phPmb	. 1	JSJF4J	4NJF66	4NNF77	4. 7F1J	2F1N	DDe
Bcwb mT%	2S. 1				. S		E
Bcwb mT%	2S. 2				. 1		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	JJ1F1J	J17F. 7	J16FN0	J20F72	7F. 2	DDe
3 sob cmb	1S6 1	JJSF6S	JS6F4J	JS2F77	J1. F0.	JF1J	DDe
3 sob cmb	111 1	JJ7FS2	J1JF1J	J1NFNS	J2NF. .	7F. J	DDe
3 sPdcmb	47 1	26. 4S7F27	2761. 2F41	24466. F67	2JSSNNF42	6F. S	DDe
3 sPdcmb	44 1	2612J0F27	2741. SFNS	27. 0SSF7N	24JS4. F40	JFN4	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %F5pcCr	7J 1						dDw
3 %F5pcCr	7J 2						dDw
3 %p5b cmb	J2 2	4. 0F20	4NNF62	4NJF4S	4. SF47	1F2J	DDe
3 5esFT	J. 2	4NNF44	4. 2F0.	40. F16	4N6FNS	1F47	DDe
3 5DDr p	67 2	J7S4FNJ	J24SF2N	JS6NF77	J2S4F4.	2F7J	DDe
&hwDp5wcmb	1J6 1						dDw
&hwDp5wcmb	1J6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PdCcmb	16S 1						dDw
Hso5PdCcmb	16S 2						dDw
K5Pb cmb	16J 1				. 6		E
K5Pb cmb	16J 2				. N		E
tCocmb	11J 1				. S		E
tCocmb	11J 2				. 1		E
tp5C	J4 2	12667SF7S	120. N4F1S	120S6JFN2	120226F04	SFJ4	DDe
tp5C	J6 2	12N764FNS	120161FJ2	126N16F04	120440F6N	SF64	DDe
tp5C	J0 2	126447F01	12. 1. 1F06	12J0SJF16	120117FJ4	1F4J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	20SNFN7	2JSJF46	2JSSF76	2J01FJJ	4F62	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8spsb r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	20JSF26	2J70F77	24N1F0S	2JN. F06	JF40	DDe
Lr so	2SN 1	2011F44	2J42F66	2J20FN.	2J. 4FSS	7F. 7	DDe
LdP%omb	6 1				N4		E
y sMCr womb	24 2	2J0N14F26	2JS021FN2	2J4267FJ4	2J4266FJ4	1F7.	DDe
y sCMsCr wr	JJ 2	J2S0F1S	JS26F0S	JSNNF. S	J1S0FJ0	1F0.	DDe
y 5Pheor Omb	. 4 1	J47. F06	JS. 6F0N	4. S6FJ6	J140F0S	JF2J	DDe
y 5Pheor Omb	. J 1	J72NF41	J177FS6	4. SNFJ6	J127F74	4F1S	DDe
y 5Pheor Omb	. 6 1	J2N6F64	J111F. 0	4. . 0F7.	J172FSS	2FN4	DDe
y 5Pheor Omb	. 0 1	J4S2F11	JS. . F7J	JSSJFJ7	J16. FSS	4FS1	DDe
y 5Pheor Omb	. N 1	J721FJS	J171F67	4. NNF1.	J140F11	7F2J	DDe
ur 5ohb omb	1JS 1						dDw
ur 5ohb omb	1JS 2						dDw
udfr P	6S 2	JS0FJ2	JSSF6S	4. 7F02	JSSF61	1F7N	DDe
8 %5wD%5pmw	71 2	1SS. 1F2.	1S2. . FSS	1S2N2FS6	1S224F12	1F17	DDe
8 5Tswwomb	7. 2	1261. . FJS	126276F61	126JS1F1.	126712F44	SF17	DDe
v %5oomb	1S7 1				NN		E
v %5oomb	1S7 2				N.		E
I dsCoomb	4J 1				. 2		E
I dsCoomb	4J 2				. 1		E
I r PComb	N2 1	J24FSS	JS6FS7	4NJF. 0	JSJF77	7F00	DDe
I r PComb	00 2	4JJF74	J2SFJ.	JS1FJ7	4. 2F4N	6FN1	DDe
I r PComb	0N 2	J2JFJ2	J11FN4	J74F0.	J24FSJ	2F2S	DDe
I dd5C	2N 1	J6JFS.	4. 0FN1	J10FSN	J26F66	6FJN	DDe
I dgr p	1S0 1	J72F7.	JS2F77	JS1F6.	J12F14	7F47	DDe
I dgr p	1S. 1	J7NFJJ	4. 1FJ.	JS7FN6	J11F77	4F06	DDe
I 5oomb	27 2	2JN4S6F1.	2J2. 61FJ6	2J262JF6J	2J4664F40	1F20	DDe
I Tp5CTomb	N6 1	17JS. F6J	126S4F40	12147F7S	120J2F40	JF4J	DDe
I Tp5CTomb	NN 1	17217F4N	12404F17	12S7SF26	12J02F62	4F0J	DDe
I mPVmp	74 1	1117SF14	NN44F42	. J44FJS	. N7. F6.	11F. S	DDe
Ar pe omb	1J. 1				. 6		E
Ar pe omb	1J. 2				. 6		E
A%sPbmb	2S7 1	JJSF14	J12F27	JS7F60	J22FS1	4F04	DDe
A%sPbmb	2SJ 1	J47F44	J12F2S	J14F1N	J27F20	7F74	DDe
AdC	11N 1	J71FJ0	4. JF07	JS1F10	JS. F4.	7F0.	DDe
AdSOomb	40 1	J4S4FN.	4N42F70	JS01F44	J1S6F24	JFJ4	DDe
RpsOomb	27N 1	J2. F7.	JS6F74	J1SF4.	J1JF41	2F7N	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S27	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S27	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:179269SJ	&sTsUdP:u sb r :9	S1. 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	J1 2	J20FN7	J16F5.	J2SF41	J21F44	1F14	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N. 1				. 7		E
YTTpomb	N. 2				. 4		E
ZdCd	66 2	JS61F01	4. . JF. 2	4. 40F5J	JSS1FJ6	1F1J	DDe
Zqpd5Comb	. S 1	J71F4N	JSSF. J	4N7F0S	JSJF7N	4F0.	DDe
Zqpd5Comb	. 1 1	J10F02	4. JF02	4N2F02	4. NF02	7FJJ	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	2072	9.y0	2.y4	1.49	4.y-	96.99	I I b
c 5&mn5h	1217 1	S.19	S.21	S.22	S.21	y.y1	I I b
c rse5Aq	0y72	S.S8	S.S2	S.S4	S.Sy	y0.y2	I I b
BarAum	1- y71	S.2S	S.18	S.2S	S.2S	y.2y	I I b
BarAum	1- 071	S.1y	S.16	S.21	S.10	18.66	I I b
BerhllAum	971	S.S0	S.S0	S.S6	S.S0	y.- 8	I I b
BAsmu&%	2S971				1S1		E
BAsmu&%	2S972				98		E
BrnmA5e	8171						ql s
3 aOmAum	1S871	S.20	S.S6	S.S8	S.14	81.- 8	I I b
3 aOmAum	1S671	74.00	72.66	72.y1	7- .- 1		I I b
3 aOmAum	1117 1	S.Sy	S.S2	S.S8	S.Sy	61.69	I I b
3 alqAum	4- 71	22.24	2S.41	19.46	2S.01	6.82	I I b
3 alqAum	4471	86.98	6y.48	y6.6S	69.68	22.41	I I b
3 arbn5	1271						ql s
3 arbn5	1272						ql s
3 %nrA5e	- y71						ql s
3 %nrA5e	- y72						ql s
3 %nmAum	y272	S.S4	S.S-	7S.S-	S.S1	29- .y2	I I b
3 nbal&	y972	S.Sy	S.SS	S.S1	S.S2	142.61	I I b
3 nI I er	6- 72	S.92	S.yS	S.4S	S.6S	4y.60	I I b
t hsI rnsAum	1y671						ql s
t hsI rnsAum	1y672						ql s
CrbAum	1647 1						ql s
CrbAum	1647 2						ql s
GaOnlA5Aum	16S71						ql s
GaOnlA5Aum	16S72						ql s
HnlmAum	16y71				1SS		E
HnlmAum	16y72				1S1		E
D5OAum	11y71				1SS		E
D5OAum	11y72				1SS		E
Dn5	y472	1- .SS	y.20	6.18	8.1y	y1.84	I I b
Dn5	y672	12.88	- .- S	- .SS	6.4S	80.86	I I b
Dn5	y072	11.- -	y.2-	6.- S	0.62	42.09	I I b
Krhl &n5	8- 71						ql s
LeaO	2S671	S.4y	S.- 4	S.26	S.- y	20.9y	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
LeaO	2S071	S.- -	S.- 4	S.29	S.- 2	8.26	I I b
LeaO	2S871	S.- 6	S.- 1	S.28	S.- 2	12.26	I I b
LA%Aum	671				9S		E
Mag5esAum	2472	- 2.06	4.- 9	y.20	14.14	114.S9	I I b
Ma5ga5ese	yy72	S.- y	S.11	S.1y	S.2S	6- .96	I I b
MnlhbOe5um	9471	S.88	S.66	S.y6	S.0S	2- .62	I I b
MnlhbOe5um	9y71	S.86	S.04	S.68	S.06	12.S0	I I b
MnlhbOe5um	9671	S.9-	S.6y	S.60	S.0y	2S.46	I I b
MnlhbOe5um	9071	S.89	S.6-	S.69	S.04	18.01	I I b
MnlhbOe5um	9871	S.8S	S.60	S.82	S.06	1S.92	I I b
NenOhmAum	1yS71						ql s
NenOhmAum	1yS72						ql s
NAqkel	6S72	S.S4	S.S4	S.S4	S.S4	6.S8	I I b
P%nsI %nrus	- 172	7- 8.18	714.68	7- S.y9	720.81		I I b
Pn&assAum	- 972	66.84	yS.42	y1.68	y6.- 2	16.2-	I I b
R%nOAum	1S- 71				99		E
R%nOAum	1S- 72				1S1		E
pqa5OAum	4y71				90		E
pqa5OAum	4y72				94		E
pele5Aum	8271	S.yS	7S.- 9	S.- -	S.1y	- 18.01	I I b
pele5Aum	0072	7S.- 8	7S.- 8	7S.- 8	7S.- 8		I I b
pele5Aum	0872	7S.- 2	7S.yy	S.S9	7S.26		I I b
pAAqn5	2871	S.66	S.10	7S.S2	S.20	1- S.90	I I b
pAver	1S071	S.S2	S.S2	S.S-	S.S2	2S.yS	I I b
pAver	1S971	S.S-	S.S2	S.S2	S.S2	4.26	I I b
pnOAum	2- 72	142.84	1S0.98	1Sy.SS	118.61	10.04	I I b
p&n5&Aum	8671	1.26	S.0-	S.06	S.92	- 2.6y	I I b
p&n5&Aum	8871	S.86	S.02	S.08	S.09	8.0-	I I b
pulfur	- 471	9- y.8-	7- S0.y0	7814.99	762.2y		I I b
i erbAum	1y971				1SS		E
i erbAum	1y972				98		E
i %allAum	2S- 71	S.26	S.21	S.2S	S.22	1- .9-	I I b
i %allAum	2Sy71	S.2-	S.22	S.2S	S.22	0.y1	I I b
i A5	11871	S.S4	S.SS	S.Sy	S.S-	0y.20	I I b
i A&a5Aum	4071	S.4-	S.49	S.- y	S.42	16.94	I I b
Ura5Aum	2- 871	S.S4	S.S-	S.S-	S.S-	9.86	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS2-	D5s&um5e&Name :	P8
3 lAe5&pamI le D :	3 3 BS2-	t Au&n5 Faq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 1- :29:26	t a&aFAe Name :	S2S3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	y172	S.S-	S.S2	S.SS	S.S2	1S4.20	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				98		E
Y&&Aum	8972				99		E
ZA5q	6672	S.yy	S.19	S.S8	S.20	9S.- 2	I I b
ZAqn5Aum	9S71	S.S4	S.S-	S.Sy	S.S4	- 6.y1	I I b
ZAqn5Aum	9171	S.S-	S.S1	S.Sy	S.S-	0- .y8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Aluminium	2572	6.48	3.61	9.- 1	3.99	24.4-	ppb
Antimony	12171	P.11	P.12	P.P8	P.11	15.31	ppb
Arsenic	5372	P.P9	P.P6	P.P3	P.P4	99.45	ppb
Barium	19371	P.14	P.13	P.16	P.13	4.2-	ppb
Barium	19571	P.18	P.21	P.14	P.18	21.8-	ppb
Beryllium	- 71	P.P8	P.P6	P.P4	P.P6	9P.24	ppb
Bismuth	2P- 71				- -		%
Bismuth	2P- 72				- 5		%
Bromine	8171						cps
Cadmium	1P871	7P.P1	7P.P1	7P.P3	7P.P9		ppb
Cadmium	1P671	79.81	72.5-	74.13	79.38		ppb
Cadmium	11171	P.P1	P.P5	P.P1	P.P9	11P.29	ppb
Calcium	4971	23.84	24.44	16.1-	22.16	29.34	ppb
Calcium	4471	62.65	63.3-	34.25	6P.84	- .63	ppb
Carbon	1271						cps
Carbon	1272						cps
Chlorine	9371						cps
Chlorine	9372						cps
Chromium	3272	P.P-	P.P4	P.P4	P.P6	44.19	ppb
Cobalt	3- 72	P.P2	P.P2	P.P2	P.P2	- .28	ppb
Copper	6972	P.4-	P.4P	P.49	P.44	1P.24	ppb
Dysprosium	13671						cps
Dysprosium	13672						cps
Erbium	16471						cps
Erbium	16472						cps
Gadolinium	16P71						cps
Gadolinium	16P72						cps
Holmium	16371				1PP		%
Holmium	16372				- 5		%
Indium	11371				- 8		%
Indium	11372				- 6		%
Iron	3472	- .- 1	1P.- 9	4.86	8.35	95.- 6	ppb
Iron	3672	- .P4	- .3-	8.58	- .14	4.39	ppb
Iron	3572	5.8-	- .P6	3.- 3	5.64	2P.36	ppb
Krypton	8971						cps
Lead	2P671	P.9P	P.26	P.2P	P.23	18.89	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Lead	2P571	P.94	P.28	P.22	P.28	22.6-	ppb
Lead	2P871	P.9P	P.26	P.2P	P.23	1- .26	ppb
Lithium	671				- P		%
Magnesium	2472	19.4P	12.24	5.88	11.15	26.P3	ppb
Manganese	3372	P.21	P.18	P.19	P.15	29.- 6	ppb
Molybdenum	- 471	P.62	P.4-	P.95	P.4-	23.P1	ppb
Molybdenum	- 371	P.69	P.32	P.96	P.3P	26.5P	ppb
Molybdenum	- 671	P.31	P.31	P.94	P.43	21.24	ppb
Molybdenum	- 571	P.61	P.4-	P.45	P.32	14.92	ppb
Molybdenum	- 871	P.4-	P.44	P.42	P.43	8.82	ppb
Neodymium	13P71						cps
Neodymium	13P72						cps
Nickel	6P72	P.P6	P.P9	P.P3	P.P3	28.P5	ppb
0hosphorus	9172	79P.92	24.4-	26.54	6.- 5	469.6P	ppb
0otassium	9- 72	3- .81	44.48	96.48	46.- 2	23.25	ppb
Rhodium	1P971				- 8		%
Rhodium	1P972				- 5		%
Scandium	4371				- 8		%
Scandium	4372				- 4		%
Selenium	8271	P.P9	7P.P8	7P.3P	7P.18		ppb
Selenium	5572	2.P5	7P.98	P.56	P.82	14- .65	ppb
Selenium	5872	P.34	7P.32	P.P-	P.P9	134P.9-	ppb
Silicon	2871	P.12	P.14	P.P1	P.P-	58.- 1	ppb
Silver	1P571	P.P1	P.P2	P.P1	P.P1	48.- 6	ppb
Silver	1P- 71	P.PP	P.P1	P.PP	P.P1	56.56	ppb
Sodium	2972	- 5.25	88.- 3	82.33	8- .3-	8.29	ppb
Strontium	8671	P.83	1.P9	P.32	P.8P	92.81	ppb
Strontium	8871	P.88	P.56	P.62	P.53	15.51	ppb
Sulfur	9471	7255.P8	18.35	79P5.29	7188.38		ppb
Terbium	13- 71				- -		%
Terbium	13- 72				- 8		%
Thallium	2P971	P.15	P.18	P.16	P.15	3.66	ppb
Thallium	2P371	P.1-	P.16	P.19	P.16	16.4P	ppb
Tin	11871	P.P1	P.P1	P.PP	P.P1	115.49	ppb
Titanium	4571	P.63	P.49	P.42	P.3P	23.62	ppb
Uranium	29871	P.P3	P.P9	P.P2	P.P9	42.11	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	ConRep1	ConRep2	ConRep9	Avg. Conc.	ConcRSD	Units
Vanadium	3172	P.P9	P.P2	P.P4	P.P9	96.13	ppb
Ytterbium	15271						cps
Ytterbium	15272						cps
Ytterbium	15671						cps
Ytterbium	15672						cps
Yttrium	8- 71				1PP		%
Yttrium	8- 72				- 6		%
Zinc	6672	P.98	P.16	P.15	P.24	32.55	ppb
Zirconium	- P71	P.P4	P.P9	P.P1	P.P9	63.62	ppb
Zirconium	- 171	7P.P1	7P.P2	P.P9	P.PP	2P81.49	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpla	LB1264S0	o l r pw8apla	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: S7	t A8m8A5JUwq8apla	1
t w&JTJ Ab r Jc qdmAr Qla	2S279S0912J17a7-a46	t w&WJA8 Juwb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	71FN0	74F 6	72F2S	77FS1	-F14	l l e
c5&b n5h	12191	7F7-	7F24	7F71	7F7S	1F02	l l e
cpl r 5Aq	0-92	1F64	1F 7	1F6	1F0-	NF N	l l e
BwpAmb	17-91	10FSN	1-F62	16FS-	16F2-	4F61	l l e
BwpAmb	17091	16F1-	16F70	16FS2	16F1N	1FS0	l l e
Br ph8Amb	91	1F07	1F61	1F=6	1F67	-F40	l l e
BAb m8%	2S 91						E
BAb m8%	2S 92				1S1		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F67	1F76	1F=6	1F=2	F72	l l e
CwCb Amb	1S691	91F70	SF0-	1F4-	SF2N	-2NF11	l l e
CwCb Amb	11191	1FN2	1F07	1F4	1F6N	1SF1S	l l e
Cw&pAmb	4791	064F 6	07SFN0	041F22	04-F6	2F74	l l e
Cw&pAmb	4491	N10FS6	00-F66	060F4N	0N6F07	7F7N	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	2F 0	7F7N	7F20	7F2S	6F=N	l l e
Cnew&&	- 92	1F=6	1FN1	1F6N	1F6N	0F=	l l e
CnI l r p	6792	7F4	7F0-	7F0-	7F66	4FSN	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8A5Amb	16S91						ql l
GwOn8A5Amb	16S92						ql l
Hn8b Amb	16-91				1SS		E
Hn8b Amb	16-92				1S1		E
D5OAmb	11-91				1SS		E
D5OAmb	11-92				1S1		E
Dpn5	-492	714F7N	761F2N	77NF0S	77NF12	6F 4	l l e
Dpn5	-692	71NF=0	74-F24	77 F2	774F70	4F1	l l e
Dpn5	-092	716F=-	7-7F12	740FS	77NF 2	-F0N	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F=6	1F64	1F6S	1F6S	2F41	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J17a7-a46	t w&wUA8 Juwb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F62	1F-	1F-0	1F-	1F7	l l e
Lr wO	2SN91	1F67	1F-	1F-0	1F6S	2FS1	l l e
LA&%Amb	691				1		E
y wW5r l Amb	2492	NS1F71	N NF1	N2NF2	N42F6S	-F 7	l l e
y w5Mw5r l r	- - 92	1F6S	1F66	1F6	1F6-	2F60	l l e
y n8neOr 5mb	491	NFN2	NF61	NF	NFNS	2F12	l l e
y n8neOr 5mb	-91	NFS1	0F77	0F00	0F0S	4F-7	l l e
y n8neOr 5mb	691	0F 0	0F- -	0F6N	0F04	2F0-	l l e
y n8neOr 5mb	091	0F4N	0F66	0F-	0F-N	1F22	l l e
y n8neOr 5mb	N91	0F-6	0F4-	0F67	0F- -	1F1	l l e
u r nOnb Amb	1-S91						ql l
u r nOnb Amb	1-S92						ql l
u Aqkr 8	6S92	1F0S	2FS	1FN-	1FNN	1SF-2	l l e
3 %nl l %npm	7192	9- - FN7	1-F42	94F0-	91-FS-		l l e
3 n&wl l Amb	7 92	0NSFSS	NN6FSS	N-7F06	N7 F 2	6F40	l l e
v %nOAmb	1S791						E
v %nOAmb	1S792						E
: qw5OAmb	4-91				0		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F 7	0F47	0F42	0F-	7FNS	l l e
: r 8 5Amb	0092	11FS0	1SF1	6F42	F27	26F00	l l e
: r 8 5Amb	0N92	FN	1SFN2	FN6	1SF1	-F74	l l e
: A8qn5	2N91	1F7-	1FSN	1FS1	1F1-	1-F-4	l l e
: A8gr p	1S091	1F67	1F64	1F62	1F67	SF00	l l e
: A8gr p	1S 91	1F06	1F01	1F67	1F0S	4FS0	l l e
: nOAmb	2792	N-6F42	4-F06	N 7FS0	N NF42	-FSS	l l e
: 8pn5&Amb	N691	1FN7	1F00	1FN7	1FN1	1F 7	l l e
: 8pn5&Amb	NN91	1F04	1F-6	1F66	1F66	-F26	l l e
: m8mp	7491	676F 4	1-SF0S	912SF24	222F40	102F46	l l e
i r peAmb	1- 91				1SS		E
i r peAmb	1- 92						E
i %w8Amb	2S791	1F0S	1F60	1F6S	1F66	7F2S	l l e
i %w8Amb	2S-91	1F00	1F-	1F-4	1F67	0F16	l l e
i A5	11N91	SFS2	SFS1	SFS1	SFS1	41F66	l l e
i A&w5Amb	4091	NF-6	NF-1	NF71	NF46	1F6S	l l e
Rpw5Amb	27N91	1F-1	1F4N	1F4-	1F4N	1F 1	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-4S7 B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: S7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J17a7-a46	t w&WJA8 Ju wb r Ja	S22LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	0F 1	NF60	NF40	NF7-	4F06	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				N		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	0F-	NF- -	F1-	NF47	F7-	l l e
ZAqn5Amb	S91	1F-4	1F4	1F-6	1F-7	2F71	l l e
ZAqn5Amb	191	1F6-	1F- -	1F6S	1F6S	2F -	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	- 6US7	- 6U1-	- 7U06	- 7UaJ	SU77	DDe
q5Tb n5%	121 1	SU1a	SU16	SU1a	SU1J	0UaS	DDe
qpl r 5cd	07 2	SU17	SU24	SU21	SU2S	2- U4-	DDe
Bwpcmb	1- 7 1	26US0	27U00	27U2S	27U6J	1U0-	DDe
Bwpcmb	1- 0 1	20U4J	27U6S	27U44	26U10	4UJ4	DDe
Br p%8cmb	a 1	SU11	SU1S	SU1S	SU1S	7UJ0	DDe
Bdb mTE	2Sa 1				a4		G
Bdb mTE	2Sa 2				a6		G
Bpmb d5r	J1 1						dDl
v wob cmb	1SJ 1	SUSS	SU16	SUS1	SUS7	1a1Ua6	DDe
v wob cmb	1S6 1	- U1-	2U74	4U2-	- UJS		DDe
v wob cmb	111 1	SUSS	SUS1	SUS2	SUS1		DDe
v w8dcmb	4- 1	1- 0J4U2S	1- a- - U47	1- JJ4U61	1- J60U42	SU77	DDe
v w8dcmb	44 1	14177U14	14- 4- U42	14Sa- U00	141a0U44	SUa2	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	4U1S	4U24	4U12	4U17	1UJ0	DDe
v new8T	7a 2	SU26	SU20	SU2-	SU26	0UJ1	DDe
v nDDr p	6- 2	SUJ1	SUaa	SUJ0	SUJa	aUJ1	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				a7		G
h n8b cmb	167 2				a6		G
t5ocmb	117 1				a6		G
t5ocmb	117 2				a7		G
tpn5	74 2	- 2JU0a	- 46US2	- - 7UJ7	- - 6UJa	2U70	DDe
tpn5	76 2	- 26U2-	- 4JUJa	- - 6U76	- - 0U2-	- UJ6	DDe
tpn5	70 2	- 44U70	- 7aUS6	- 72US4	- 71UJa	2US6	DDe
Kp%DTn5	J- 1						dDl
Lr wo	2S6 1	SUJJ	SUJ0	SU4S	SUJJ	- U61	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	SUJ J	SU4S	SUJ6	SUJ J	7U40	DDe
Lr wo	2SJ 1	SUJ J	SU4S	SUJ0	SUJ J	- U0J	DDe
LdTEomb	6 1				Ja		G
y wW5r l omb	24 2	2J20U46	- S16U2J	2aSaUJa	2a10U01	- U27	DDe
y w5Mw5r l r	77 2	11U66	12U1J	11U0J	11UJ0	2UJ2	DDe
y n8%eor 5mb	a4 1	1UJ1	1U2S	1UJS	1U20	4U0-	DDe
y n8%eor 5mb	a7 1	1U20	1UJ1	1U1a	1U26	7USa	DDe
y n8%eor 5mb	a6 1	1UJ-	1U2J	1U21	1U20	4U00	DDe
y n8%eor 5mb	a0 1	1U40	1U2a	1UJJ	1UJJ	6U72	DDe
y n8%eor 5mb	aJ 1	1U27	1U21	1U24	1U2-	1U0J	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	1U70	1UJa	1U0-	1U0-	aUJS	DDe
NEnl DEnpm	- 1 2	21U2S	2Ua4	10Ua2	14US2	6aU4-	DDe
NnTwl omb	- a 2	1672U22	1076UJ1	16J2US7	16a0US-	- U10	DDe
CEnoomb	1S- 1				a4		G
CEnoomb	1S- 2				a6		G
l dw5oomb	47 1				a-		G
l dw5oomb	47 2				a2		G
l r 8 5omb	J2 1	SU1S	SU64	SU12	SU14	- S7USJ	DDe
l r 8 5omb	00 2	SUJ J	2USa	SUJ J	SU44	- 2SUS0	DDe
l r 8 5omb	0J 2	SU74	1U6a	SUJ1	1US1	7aUJ6	DDe
l 8dn5	2J 1	2S2U64	212U22	2S0U1J	2S0UJ7	2UJ1	DDe
l 8gr p	1S0 1	SUS1	SUSS	SUS1	SUSS	62UJ0	DDe
l 8gr p	1Sa 1	SUS1	SUS1	SUSS	SUS1	4aU2S	DDe
l noomb	2- 2	1S62JUJJ	11107U0-	1S047U26	1SJ4aUa6	2U66	DDe
l Tpn5Tomb	J6 1	66U6S	0SU20	67U60	60U71	- U6S	DDe
l Tpn5Tomb	JJ 1	66U07	60UJ0	66Ua2	60U1J	SUaS	DDe
l m8mp	- 4 1	41J6U2-	- aJ4UaJ	4121U76	4Sa0U7a	2U71	DDe
Ar peomb	17a 1				a7		G
Ar peomb	17a 2				a0		G
AEw8omb	2S- 1	SU12	SUSa	SU11	SU1S	1- Uaa	DDe
AEw8omb	2S7 1	SUSJ	SUS0	SUS6	SUS0	1- U7a	DDe
Ad5	11J 1	SUJ1	SU2a	SU1a	SU20	2- UJJ	DDe
AdTw5omb	40 1	SUJ-	1US7	SUJ6	SUa1	1- U21	DDe
Rpw5omb	2- J 1	SUa7	SUaa	SUa-	SUa7	- U27	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 724 S1	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SFa6	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- S0 12:1- 9 J97a	&wTwFd8 :u wb r :9	S2- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMU:v n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	SU-a	SU71	SU44	SU47	1- U1S	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	Ja 1				a4		G
YTTpcmb	Ja 2				a7		G
Zd5d	66 2	16U24	16Ua0	17U-7	16U1a	7US-	DDe
Zqpdn5cmb	aS 1	SUSa	SU11	SU17	SU12	27U17	DDe
Zqpdn5cmb	a1 1	SUS7	SUSa	SU17	SUSa	74US-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	4JFJS	4- F77	44F02	47F6h	6FS4	l l b
cn&mon%	121 1	SF12	SF1-	SF12	SF12	0F1-	l l b
crwenAq	07 2	SF7S	SF- 7	SF4S	SF41	1JFh4	l l b
BsrAum	1- 7 1	4- F- 2	46FS1	47F4h	44Fh4	- F1J	l l b
BsrAum	1- 0 1	4- F2S	47F67	44FJ1	44F77	2F0h	l l b
Ber%BAum	h 1	SF14	SF16	SF17	SF17	4F61	l l b
BAumu&E	2Sh 1				1SS		G
BAumu&E	2Sh 2				1S2		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF02	SF16	SF6-	SF7S	6SF16	l l b
RsOmAum	1S6 1	- F20	- F16	- Fh0	- F40		l l b
RsOmAum	111 1	SFS1	SFSS	SFS2	SFS1		l l b
RsRqAum	4- 1	20207F60	20670F4-	2J6J0F42	20J0- F71	2F62	l l b
RsRqAum	44 1	2JhhSF1-	2J111Fh7	2h7- hF42	2JJJSF7S	2F4h	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	1FhJ	1F02	1F02	1FJ1	JF4-	l l b
RobsR&	7h 2	SF74	SF72	SF70	SF74	4F0J	l l b
Rol l er	6- 2	1FS1	SFJ4	1FS2	SFh6	1SF4h	l l b
t %w l rowAum	176 1						ql w
t %w l rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	167 1				1SS		G
y oFmAum	167 2				1S4		G
DrOAum	117 1				hJ		G
DrOAum	117 2				1S1		G
Don	74 2	JhJF16	0h1F42	J16F0h	J- 7F46	6F60	l l b
Don	76 2	JJSFS1	0h1FSS	J- hFSS	J- 6F60	7F- 2	l l b
Don	70 2	JJJF20	J- 6FS7	JJ6F60	J0SF- -	- F41	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF- -	SF- 6	SF- 4	SF- 4	7F66	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	SF- -	SF- 2	SF2h	SF- 2	6FJJ	l l b
LesO	2SJ 1	SF- -	SF- 4	SF- 1	SF- -	4Fh4	l l b
LAEAum	6 1				JJ		G
MsgnewAum	24 2	0- 4hF- -	602SFSh	0S22F10	0S- SF7-	4F4J	l l b
Msngsnewe	77 2	61FJ1	76F- -	7hF04	7hF2h	4F66	l l b
MoP%bOenum	h4 1	7F- 1	7F7J	7F11	7F- -	4F47	l l b
MoP%bOenum	h7 1	6F2S	6F74	6F1-	6F2h	- F4h	l l b
MoP%bOenum	h6 1	6F14	6F2h	6F14	6F1h	1F- 0	l l b
MoP%bOenum	h0 1	6F1J	6F24	6F47	6F2h	2F20	l l b
MoP%bOenum	hJ 1	6FS0	6F- h	6FSJ	6F1J	2FhJ	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ7	SFJJ	SFJ1	SFJ7	4F47	l l b
8EowI Eoruw	- 1 2	- SF1h	JFJ2	JhFS6	22F76	26hF4J	l l b
8o&swwAum	- h 2	2JJSFJ7	27h7F00	206SFJ1	2047FJ1	7F21	l l b
5EoOAum	1S- 1				h6		G
5EoOAum	1S- 2				1S1		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				hh		G
pe?enAum	J2 1	SF27	SF42	SF76	SF41	- 0F16	l l b
pe?enAum	00 2	SF0h	SF- J	1F0J	SF0-	140F01	l l b
pe?enAum	0J 2	SFhh	SFSh	1F1h	SF0S	hJF4h	l l b
pAqon	2J 1	- 22Fh-	- - SFSJ	- 24F26	- 27F06	1F10	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	21JF4h	l l b
pA?er	1Sh 1	SFS1	SFSS	SFS1	SFS1	1SSFJ0	l l b
poOAum	2- 2	2174- FJS	1h- 17Fh7	1h4J6F04	2S117F7S	6F16	l l b
p&on&Aum	J6 1	167F76	107F- 0	166F00	16hF2-	- F16	l l b
p&on&Aum	JJ 1	10SF67	1J1F1S	104F47	107F4S	- FS2	l l b
pulPur	- 4 1	1- S1JF4-	12h41F02	1- 106F21	1- S47F46	SFh2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				1S2		G
i EsPAum	2S- 1	SFSJ	SFS0	SFSJ	SFSJ	hF7h	l l b
i EsPAum	2S7 1	SFSh	SFS0	SFSJ	SFSJ	JFJ0	l l b
i An	11J 1	SF27	SF- 1	SF- S	SF2J	11F7J	l l b
i A&snAum	40 1	1F21	SFJJ	SFhS	1FSS	1JF07	l l b
UrsnAum	2- J 1	1Fh1	1FhJ	1Fh-	1Fh4	1F0h	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9419 7J	t s&s. Ae:Nsme:9	S24c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	SF4S	SF- 7	SF4S	SF- J	6Fh7	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				1S4		G
ZAnq	66 2	4- Fh6	- hF6J	4- F0-	42F47	7F60	l l b
ZAqonAum	hS 1	SF12	SF12	SF1S	SF11	12F62	l l b
ZAqonAum	h1 1	SF1S	SF57	SF50	SF50	- 6F- J	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	44F7J	44F21	44FS0	44F2h	SF6S	l l b
cn&mon%	121 1	SF14	SF10	SF1S	SF14	24Fh7	l l b
crwenAq	07 2	SF72	SF41	SF47	SF46	11F74	l l b
BsrAum	1- 7 1	40F26	7SF41	44F0h	40F4h	7Fh-	l l b
BsrAum	1- 0 1	46FSS	7SF2J	47Fh6	40F41	7F27	l l b
Ber%BAum	h 1	SF12	SF14	SF11	SF1-	hFh1	l l b
BAumu&E	2Sh 1				h6		G
BAumu&E	2Sh 2				h0		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	SF7J	SF- 7	SF40	SF40	24F14	l l b
RsOmAum	1S6 1	2Fh6	- F42	- F2h	- F22		l l b
RsOmAum	111 1	SFS2	SFS2	SFS1	SFSS		l l b
RsRqAum	4- 1	2JS14F44	- S1- SF4J	2J11JF11	2J074F- 4	4F17	l l b
RsRqAum	44 1	2J7S6FJ1	- 1- hJF21	2Jh26Fhh	2h61SF60	7F2J	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- 7 1						ql w
REPrAne	- 7 2						ql w
REromAum	72 2	1FJ6	1FhJ	1FJ0	1FhS	- F- J	l l b
RobsR&	7h 2	SF7h	SF62	SF72	SF7J	JF61	l l b
Rol l er	6- 2	SFJJ	SFJJ	SFh2	SFJh	2F7S	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoPhAum	16S 1						ql w
HsOoPhAum	16S 2						ql w
y oPmAum	167 1				h0		G
y oPmAum	167 2				1SS		G
DrOAum	117 1				h6		G
DrOAum	117 2				h0		G
Don	74 2	0h7F70	J2SF00	J1hF4-	J11Fh2	1F07	l l b
Don	76 2	J24F- 6	J27FJ1	J1JF2h	J22FJ2	SF4J	l l b
Don	70 2	J46F77	J- 6F- 1	J47F21	J42F6h	SF66	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	SF2h	SF- 4	SF2J	SF- S	1SF6-	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	SF2J	SF2J	SF26	SF20	- F6-	l l b
LesO	2SJ 1	SF20	SF- 1	SF26	SF2J	hF1J	l l b
LAEAum	6 1				JJ		G
MsgnewAum	24 2	044hF72	0- 01F0S	07S1F1-	044SF0J	SFJJ	l l b
Msngsnewe	77 2	61FJ2	62FJ4	61F0h	62F17	SFh6	l l b
MoP%bOenum	h4 1	7F17	7F- 6	7F- 1	7F20	2FSh	l l b
MoP%bOenum	h7 1	6FSJ	6F- h	6F- S	6F27	2F70	l l b
MoP%bOenum	h6 1	6FS4	6F76	7Fh4	6F1J	7F- 6	l l b
MoP%bOenum	h0 1	6F1S	6F7h	7FJS	6F16	6F46	l l b
MoP%bOenum	hJ 1	6F2J	6F0S	7Fh1	6F- S	6F- -	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	SFJ6	SFh0	SF00	SFJ0	11F- 7	l l b
8 EowI Eoruw	- 1 2	hF42	1JF04	14F77	4F74		l l b
8 o&swwAum	- h 2	2J02F47	2J77Fh-	2J44F66	2J70F6J	SF4h	l l b
5 EoOAum	1S- 1				h4		G
5 EoOAum	1S- 2				h0		G
pqsnOAum	47 1				h4		G
pqsnOAum	47 2				h4		G
pe?enAum	J2 1	SF42	SFJS	1FS2	SF07	4SF67	l l b
pe?enAum	00 2	SF- J	- F1S	- F1-	1Fh7	1S- F- 2	l l b
pe?enAum	0J 2	SF- S	SF44	1F- 1	SF6J	JSF14	l l b
pAqon	2J 1	- 22FJS	- 47F- S	- 14FJ6	- 20F67	4FJ2	l l b
pA?er	1S0 1	SFSS	SFSS	SFS1	SFSS	217F11	l l b
pA?er	1Sh 1	SFSS	SFS1	SFSS	SFSS	h4F64	l l b
poOAum	2- 2	211h1F06	2Sh60Fh4	21442F41	212SSF0S	1F12	l l b
p&on&Aum	J6 1	166F7-	1JSF4J	160F11	101F- 0	4F61	l l b
p&on&Aum	JJ 1	101F66	1J0FJJ	100F1h	10JFh1	4F61	l l b
pu?ur	- 4 1	12h60FJS	147- 4F0-	124h0F40	1- - - - F- -	JFSS	l l b
i erbAum	17h 1				h6		G
i erbAum	17h 2				hh		G
i EsP?Aum	2S- 1	SFS0	SFS7	SFSJ	SFS6	27FS4	l l b
i EsP?Aum	2S7 1	SFS7	SFS6	SFS7	SFS7	1- F2J	l l b
i A?n	11J 1	SF2-	SF21	SF1h	SF21	JF66	l l b
i A&snAum	40 1	SFJ0	SFhS	SF0J	SFJ7	6FhS	l l b
UrsnAum	2- J 1	1Fh2	2FS0	1Fh4	1FhJ	4F12	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S-	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0t	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 9449 7J	t s&s. Ae:Nsme:9	S27c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	71 2	SF71	SF- -	SF- 7	SF- h	24Fh6	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h7		G
Y&&Aum	Jh 2				h0		G
ZAnq	66 2	42F0J	4- F- 1	4- F61	4- F2-	SFh0	l l b
ZAqonAum	hS 1	SF50	SF50	SF50	SF50	7F71	l l b
ZAqonAum	h1 1	SF50	SF50	SF50	SF50	7F40	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Aluminium	23X2	8.81	9.8O	9.66	9.4-	0.66	ppb
Antimony	121X1	O.O-	O.O-	O.O4	O.O-	23.O2	ppb
Arsenic	30X2	O.1O	O.O3	O.O3	O.O3	2O.3O	ppb
Barium	1- 0X1	9.1O	9.O9	9.36	9.- 2	4.11	ppb
Barium	1- 3X1	8.99	9.11	9.62	9.24	- .6O	ppb
Beryllium	9X1	O.O4	O.O4	O.O0	O.O4	- .92	ppb
Bismuth	2O9X1				1O2		%
Bismuth	2O9X2				1O2		%
Bromine	81X1						cps
Cadmium	1O8X1	O.- 4	O.10	O.01	O.- -	04.81	ppb
Cadmium	1O6X1	X2.0-	X1.48	X1.03	X1.86		ppb
Cadmium	111X1	XO.O4	XO.O1	XO.O-	XO.O-		ppb
Calcium	4- X1	0489.16	0323.03	08O- .21	063- .- 1	2.89	ppb
Calcium	44X1	0398.18	6O44.4O	6180.30	6OO9.44	- .26	ppb
Carbon	12X1						cps
Carbon	12X2						cps
Chlorine	- 0X1						cps
Chlorine	- 0X2						cps
Chromium	02X2	O.- 0	O.4-	O.- 9	O.- 9	1O.66	ppb
Cobalt	09X2	O.12	O.O9	O.12	O.11	16.99	ppb
Copper	6- X2	O.28	O.- -	O.- 4	O.- 2	11.41	ppb
Dysprosium	106X1						cps
Dysprosium	106X2						cps
Erbium	164X1						cps
Erbium	164X2						cps
Gadolinium	16OX1						cps
Gadolinium	16OX2						cps
Holmium	160X1				1O2		%
Holmium	160X2				1O4		%
Indium	110X1				1O2		%
Indium	110X2				1O2		%
Iron	04X2	166.01	166.03	163.28	166.39	O.26	ppb
Iron	06X2	166.- 4	169.40	16- .48	166.42	1.39	ppb
Iron	03X2	136.32	191.- 4	132.- 6	18O.14	0.02	ppb
Krypton	8- X1						cps
Lead	2O6X1	O.O8	O.O9	O.O9	O.O8	0.- -	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Lead	2O3X1	O.O0	O.O3	O.O0	O.O6	2O.82	ppb
Lead	2O8X1	O.O3	O.O6	O.O3	O.O3	0.90	ppb
Lithium	6X1				92		%
Magnesium	24X2	1438.11	1484.20	141- .8-	1408.3-	2.63	ppb
Manganese	00X2	12.41	12.1-	11.34	12.O9	2.38	ppb
Molybdenum	94X1	1.19	1.19	1.O4	1.14	3.01	ppb
Molybdenum	90X1	1.O8	1.14	1.2-	1.10	6.- 0	ppb
Molybdenum	96X1	1.14	1.22	1.- 2	1.2-	3.- 6	ppb
Molybdenum	93X1	1.13	1.20	1.4O	1.23	9.- -	ppb
Molybdenum	98X1	1.13	1.22	1.- O	1.2-	0.4O	ppb
Neodymium	10OX1						cps
Neodymium	10OX2						cps
Nickel	6OX2	O.21	O.10	O.21	O.19	13.98	ppb
Phosphorus	- 1X2	X13.8O	X- 4.O1	X26.98	X26.23		ppb
Potassium	- 9X2	084.- 4	084.16	003.- 8	030.29	2.3O	ppb
Rhodium	1O- X1				1OO		%
Rhodium	1O- X2				1O-		%
Scandium	40X1				98		%
Scandium	40X2				98		%
Selenium	82X1	O.2-	XO.- 0	XO.22	XO.11		ppb
Selenium	33X2	XO.- 8	XO.- 8	XO.- 8	XO.- 8		ppb
Selenium	38X2	O.44	O.O0	O.O3	O.19	118.0-	ppb
Silicon	28X1	62.18	60.6O	63.08	60.12	4.2O	ppb
Silver	1O3X1	O.OO	O.OO	O.O1	O.OO	18- .6-	ppb
Silver	1O9X1	O.OO	O.OO	O.OO	O.OO		ppb
Sodium	2- X2	4210.O4	4140.10	41O2.OO	4104.O6	1.- 3	ppb
Strontium	86X1	- - .82	- 4.18	- 4.18	- 4.O6	O.62	ppb
Strontium	88X1	- 2.64	- 4.O2	- - .21	- - .29	2.O9	ppb
Sulfur	- 4X1	1630.83	2O98.11	2216.04	1996.84	14.2-	ppb
Terbium	109X1				1O1		%
Terbium	109X2				1O-		%
Thallium	2O- X1	O.O4	O.O4	O.O0	O.OO	16.14	ppb
Thallium	2OOX1	O.O4	O.O4	O.O4	O.O4	11.22	ppb
Tin	118X1	O.12	O.O6	O.O6	O.O8	41.03	ppb
Titanium	43X1	O.14	O.14	O.13	O.10	12.29	ppb
Uranium	2- 8X1	O.- 8	O.- 8	O.- 9	O.- 8	1.4O	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Units
Vanadium	01X2	O.O8	O.O8	O.O0	O.O3	19.86	ppb
Ytterbium	132X1						cps
Ytterbium	132X2						cps
Ytterbium	136X1						cps
Ytterbium	136X2						cps
Yttrium	89X1				1OO		%
Yttrium	89X2				1O1		%
Zinc	66X2	9.28	9.46	8.94	9.2-	2.84	ppb
Zirconium	9OX1	O.OO	O.O2	O.O1	O.O1	1O1.91	ppb
Zirconium	91X1	O.OO	O.O1	O.OO	O.OO	2693.40	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	210hFh1	220SFS4	224- F- 1	22- 1FSh	2FS0	l l b
cn&mon%	121 1	hhF0S	hhF1S	1SSF6h	hhFJ-	SFJ1	l l b
crwenAq	07 2	41F- -	42F07	41F67	41Fh1	1F0h	l l b
BsrAum	1- 7 1	2- 2JF4J	2- - 6FJJ	2242FJ7	2- S2F0-	2F26	l l b
BsrAum	1- 0 1	226SF26	22- 4FJh	22S0F- 4	22- 4F16	1F1J	l l b
Ber%BAum	h 1	7- FS4	77FSS	77F11	74F- J	2F14	l l b
BAumu&E	2Sh 1				hJ		G
BAumu&E	2Sh 2				hJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	41F44	47F10	47F- 0	4- Fhh	7FS4	l l b
RsOmAum	1S6 1	- hFS7	- JF21	- hF- h	- JFJJ	1F70	l l b
RsOmAum	111 1	7- F- 4	72F1J	7SFhJ	72F10	2F26	l l b
RsRqAum	4- 1	2061SF6S	20h17F0h	2J- 0SF72	20h67F64	1F- 0	l l b
RsRqAum	44 1	2J40- F46	2J6- hFJh	2Jh40FS1	2J6J6F0h	SFJ4	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- 7 1						ql w
REFrAne	- 7 2						ql w
REromAum	72 2	216F64	227F04	221F6-	221F- -	2FS6	l l b
RobsR&	7h 2	700FS1	611F4S	611F6S	6SSFSS	- F- 2	l l b
Rol l er	6- 2	20SFS4	2JSF64	206F21	207F6-	1Fh-	l l b
t %wl rowAum	176 1						ql w
t %wl rowAum	176 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	167 1				hh		G
y oPmAum	167 2				hh		G
DnOAum	117 1				hJ		G
DnOAum	117 2				h0		G
Don	74 2	16- 7Fh1	16hJFJ7	167SF46	1661F04	1FhJ	l l b
Don	76 2	176- FJ2	1642FS6	1614F1S	16S6F66	2F40	l l b
Don	70 2	1407F21	17JSF44	17- 4F0J	17- SF14	- F47	l l b
Kr%l &on	J- 1						ql w
LesO	2S6 1	1JFS6	1JF64	1JF2-	1JF- 1	1F62	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. h0p	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	1JF41	1JF74	1JF46	1JF40	SF-0	l l b
LesO	2SJ 1	1JF1h	1JF77	1JF76	1JF4-	1F14	l l b
LAEAum	6 1				hS		G
MsgnewAum	24 2	0140F26	046SF0J	04S1F64	0- - 6F76	2F20	l l b
Msngsnewe	77 2	70JFS1	612F0J	7h2F2-	7h4F-4	2Fh4	l l b
MoP%bOenum	h4 1	7F2J	7F7S	7F22	7F-4	2F0-	l l b
MoP%bOenum	h7 1	6F16	6FS0	6FS4	6FSh	1FS-	l l b
MoP%bOenum	h6 1	6F14	6F2-	7Fh0	6F11	2F22	l l b
MoP%bOenum	h0 1	6FS-	6F41	6FS-	6F17	- F77	l l b
MoP%bOenum	hJ 1	6FS2	6F-0	7FhJ	6F12	- F77	l l b
NeoO%mAum	17S 1						ql w
NeoO%mAum	17S 2						ql w
NAqkeP	6S 2	700F4J	7h6F12	7h7F-0	7JhF67	1F0h	l l b
8EowI Eoruw	- 1 2	2JF0-	hFS1	7F-6	1SF0h		l l b
8o&swwAum	- h 2	200SF2-	2J42F4h	2J40FSh	2J1hFh4	1F7-	l l b
5EoOAum	1S- 1				h7		G
5EoOAum	1S- 2				hJ		G
pqsnOAum	47 1				h6		G
pqsnOAum	47 2				h7		G
peRenAum	J2 1	h7F7h	1SSF12	h6F47	h0F-h	2F40	l l b
peRenAum	00 2	114F4J	1S0FS2	J4F77	1S2FS2	17F20	l l b
peRenAum	0J 2	1S6F0S	1S7F71	1S6F22	1S6F14	SF76	l l b
pARqon	2J 1	- 21F0S	- 2JF40	- - 4F27	- 2JF14	1Fh1	l l b
pARer	1S0 1	4- FJ7	4- Fh6	42Fh-	4- F7J	1F2h	l l b
pARer	1Sh 1	4- F42	42FhJ	4- FJS	4- F4S	SFh7	l l b
poOAum	2- 2	2S0- 6FS2	217S0F6S	21116F2h	2111hFh0	1FJ-	l l b
p&ona&Aum	J6 1	167FS6	10- FS-	167F4h	160FJ6	2F60	l l b
p&ona&Aum	JJ 1	102F44	104F1S	104F42	10- F66	SF61	l l b
puRur	- 4 1	12010F64	12J- JF07	1- S72FJ4	12J6hF04	1F-2	l l b
i erbAum	17h 1				hh		G
i erbAum	17h 2				hh		G
i EsRAum	2S- 1	44FhJ	46F21	46F21	47FJS	1F77	l l b
i EsRAum	2S7 1	46F27	46FJ7	40F17	46F07	SFhJ	l l b
i An	11J 1	SF21	SF2J	SF-4	SF2J	2- F2h	l l b
i A&snAum	40 1	1FS1	1F17	1F1-	1F1S	6Fh4	l l b
UrsnAum	2- J 1	1FJJ	1FhS	1Fh0	1Fh2	2F4-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 724 S4	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. h0p	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:1- 97S97J	t s&s. Ae:Nsme:9	S20c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	71 2	76JF4h	7JJF20	7JSF40	70hFSJ	1F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	Jh 1				h6		G
Y&&Aum	Jh 2				hJ		G
ZAnq	66 2	7JSF10	6SJF76	7h4F20	7h4F- -	2F- h	l l b
ZAqonAum	hS 1	SF5J	SF5J	SF5J	SF5J	- Fh2	l l b
ZAqonAum	h1 1	SF1-	SF12	SF5J	SF11	2- F- 0	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	44F61	46F1-	48F86	46F7-	4F6-	I I b
c n&Amon%	121 1	SF2S	SF21	SF18	SF2S	hFS1	I I b
c rsenAq	07 2	SF- 8	SF46	SF48	SF44	1SF8-	I I b
BarAum	1- 7 1	47F17	47F14	4SF60	4- F67	7Fh2	I I b
BarAum	1- 0 1	47F41	46FS7	4SF44	4- Fh0	6Fh8	I I b
Ber%lAum	h 1	SF14	SF14	SF17	SF17	- F8S	I I b
BAsmu&E	2Sh 1				1S2		G
BAsmu&E	2Sh 2				1SS		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SF24	SF4-	SFSS	SF22	h7F80	I I b
RaOmAum	1S6 1	4F4S	4F1h	- F10	- Fh2		I I b
RaOmAum	111 1	SFS1	SFS2	SFS-	SFS1	- 4hF8S	I I b
RalqAum	4- 1	20718F0-	20- 12F1h	242- SF64	26- 7- F87	6Fhh	I I b
RalqAum	44 1	28S87FS2	20hS1F1h	246h0Fh6	268h4F02	0FS8	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
RElorAne	- 7 1						ql s
RElorAne	- 7 2						ql s
REromAum	72 2	2F48	2F78	2F7-	2F7-	2FS0	I I b
Robal&	7h 2	SF00	SF0-	SF06	SF07	2F4h	I I b
RoI I er	6- 2	SFh6	SFh7	SFh8	SFh6	1F7-	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				1S4		G
y olmAum	167 2				1S1		G
DnOAum	117 1				1S4		G
DnOAum	117 2				hh		G
Don	74 2	146F7-	14- F20	176F2S	148F60	4F7-	I I b
Don	76 2	146FS-	140F2S	146F4h	146F70	SF4S	I I b
Don	70 2	180F8S	187FS-	1h4F11	188Fh8	2F46	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	SF4-	SF48	SF41	SF44	8F87	I I b

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	SF- h	SF42	SF- 6	SF- h	8F14	l l b
LeaO	2S8 1	SF42	SF46	SF- 8	SF42	hF- 8	l l b
LA&EAum	6 1				h2		G
MagnesAum	24 2	0120F61	02S4FS7	0282F01	02S4F0h	1FS8	l l b
Manganese	77 2	6SFS-	78F62	6SF6-	7hF06	1F0-	l l b
Mol%bOenum	h4 1	7F- 2	7F- S	4F6S	7FS8	8F1S	l l b
Mol%bOenum	h7 1	6FSS	6FSh	7F48	7F36	7F61	l l b
Mol%bOenum	h6 1	7FhS	7Fh1	7F21	7F60	0FSh	l l b
Mol%bOenum	h0 1	6F16	6FS4	7F4S	7F30	0FS2	l l b
Mol%bOenum	h8 1	6F2-	7Fh8	7F- h	7F30	0F- 8	l l b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	1F44	1F71	1F7h	1F71	7FS1	l l b
PEosI Eorus	- 1 2	7F4S	2F2h	18Fh0	0F- 6		l l b
Po&assAum	- h 2	20h- Fh7	2087F- 6	2828F7S	28S2F6S	SF31	l l b
5 EoOAum	1S- 1				1S1		G
5 EoOAum	1S- 2				hh		G
pqanOAum	47 1				1S2		G
pqanOAum	47 2				h6		G
pelenAum	82 1	SF0S	SF7h	SF36	SF02	1hF18	l l b
pelenAum	00 2	SF- 8	SF06	SF- 8	SFSS	h4208F31	l l b
pelenAum	08 2	SF10	SF01	SF- 4	SF4S	68FS7	l l b
pAAqon	28 1	- 21F0h	- 18F38	281FSh	- S0F27	0F- h	l l b
pAver	1S0 1	SFSS	SFSS	SFS1	SFSS	h- F- -	l l b
pAver	1Sh 1	SFS1	SFS1	SFSS	SFS1	- 2F31	l l b
poOAum	2- 2	2S77- F31	21S72F2S	2S884F06	2S8- SF26	1F22	l l b
p&ona&um	86 1	162F2-	167F12	146Fh2	178FSh	6F1h	l l b
p&ona&um	88 1	16hF- -	102FSh	148F77	16- F- 2	0F38	l l b
pulfur	- 4 1	12- 80F20	11h01F70	h217F7S	111h1F47	17F4S	l l b
i erbAum	17h 1				1S4		G
i erbAum	17h 2				1SS		G
i EallAum	2S- 1	SFS8	SFS0	SFS6	SFS0	1SF46	l l b
i EallAum	2S7 1	SFS0	SFS6	SFS0	SFS0	6F74	l l b
i An	118 1	2Fhh	- FS8	2F6S	2F3h	8F0S	l l b
i A&anAum	40 1	SF08	SFh0	SF60	SF31	1hF27	l l b
UranAum	2- 8 1	1Fh1	1F37	1F0-	1F3-	4Fh6	l l b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. h8	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 97- 97-	t a&a. Ae:Name:9	S28c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
VanaOAum	71 2	SF76	SF4h	SF60	SF70	17F2-	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8h 1				1S2		G
Y&&Aum	8h 2				hh		G
ZAnq	66 2	40F71	47Fh6	46F02	46F0-	1F66	I I b
ZAqonAum	hS 1	SF58	SF56	SF58	SF50	16F76	I I b
ZAqonAum	h1 1	SF58	SF50	SF56	SF50	1- F16	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:1- 976974	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	46U2	40U45	44U42	46U58	-U6	I I b
c n&mon%	121 1	SU15	SU10	SU17	SU10	12U08	I I b
c rsenAq	07 2	SU47	SU47	SU71	SU40	0U18	I I b
BarAum	1-7 1	7SU17	47U71	42U55	46U22	0U36	I I b
BarAum	1-0 1	45U62	42U62	4-U87	47U6	8U27	I I b
Ber%lAum	5 1	SU17	SU1-	SU12	SU1-	5U67	I I b
BAsmu&E	2S5 1				57		G
BAsmu&E	2S5 2				1SS		G
BromAne	81 1						ql s
v aOmAum	1S8 1	SU45	SU5	SU77	SU48	16U7S	I I b
v aOmAum	1S6 1	7US	2U25	SU46	2U68		I I b
v aOmAum	111 1	SUS-	SUS4	SUS2	SUS1	474US5	I I b
v alqAum	4- 1	- - 571U0-	28- 48U50	25200US	- S726USS	5U34	I I b
v alqAum	44 1	- 4024U10	258SSU0-	- SS75U42	- 1728U11	8U05	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	-7 1						ql s
v ElorAne	-7 2						ql s
v EromAum	72 2	SU74	SU71	SU72	SU72	-U8	I I b
v obal&	75 2	SU64	SU6-	SU6S	SU62	-U7S	I I b
v ol I er	6- 2	SU52	SU3S	SU34	SU37	0U14	I I b
t %sI rosAum	176 1						ql s
t %sI rosAum	176 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	167 1				54		G
h olmAum	167 2				1S1		G
DnOAum	117 1				5-		G
DnOAum	117 2				1SS		G
Don	74 2	04U10	02U37	0SU05	02U61	2U7	I I b
Don	76 2	00U0	02U48	65U3-	0-U2-	7U22	I I b
Don	70 2	1S0U70	1S5U51	110US2	111U7S	4U42	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	SUS	SU15	SU21	SU2-	2-U34	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	SU1	SU15	SU15	SU2-	28U52	I I b
LeaO	2S8 1	SU28	SU22	SU22	SU24	14U71	I I b
LA&EAum	6 1				80		G
y aMhesAum	24 2	8287U-S	81S6US6	0574U14	8117U16	2US4	I I b
y anManese	77 2	70U66	77U08	74U-1	77U52	- USS	I I b
y ol%bOenum	54 1	8U-2	0U77	0U-5	0U06	6U41	I I b
y ol%bOenum	57 1	6U84	6U17	6U18	6U-5	6U17	I I b
y ol%bOenum	56 1	0U18	6U-2	6U44	6U64	6U50	I I b
y ol%bOenum	50 1	0US1	6U48	6US4	6U71	0U40	I I b
y ol%bOenum	58 1	0US4	6U12	6U24	6U40	0U01	I I b
NeoO%mAum	17S 1						ql s
NeoO%mAum	17S 2						ql s
NAqkel	6S 2	SU68	SU05	SU60	SU01	5U48	I I b
PEosI Eorus	- 1 2	- SU1-	- - U56	26U45	0U77		I I b
Po&assAum	- 5 2	286- US7	2002U4-	2686U66	2004US7	- U18	I I b
CEoOAum	1S- 1				5-		G
CEoOAum	1S- 2				1SS		G
pqanOAum	47 1				52		G
pqanOAum	47 2				56		G
pelenAum	82 1	1U10	1US0	SU81	1US2	10U55	I I b
pelenAum	00 2	1U51	SU00	2U52	1U80	70U06	I I b
pelenAum	08 2	SU02	SU72	SU84	SU65	2- U46	I I b
pAAqon	28 1	- 65U8-	- 17U10	- 2- U77	- - 6U18	8U06	I I b
pAger	1S0 1	SUS1	SUS1	SUSS	SUS1	6- US8	I I b
pAger	1S5 1	SUS1	SUSS	SUSS	SUSS	180U10	I I b
poOAum	2- 2	22825U76	22228U4-	22- 51U85	2248- U-S	1U-8	I I b
p&onA&um	86 1	211U7-	108U50	105U74	15SUS1	5U81	I I b
p&onA&um	88 1	210U51	181U-0	18- U22	154U10	1SU6S	I I b
pulfur	- 4 1	1584- U46	17160U86	17855U14	1650SU17	14U82	I I b
i erbAum	175 1				57		G
i erbAum	175 2				1S1		G
i EallAum	2S- 1	SUS0	SUS4	SUS7	SUS7	26U-4	I I b
i EallAum	2S7 1	SUS6	SUS4	SUS4	SUS4	22U65	I I b
i An	118 1	SU42	2U42	SU-7	1US6	11SU-	I I b
i A&anAum	40 1	1U25	1U-2	SU81	1U14	24U06	I I b
RranAum	2- 8 1	2U-7	1U55	2US-	2U12	5U24	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 724 S6	Dns&umne&Name:9	P8
v lAn&pamI le:D :9	y h SF55	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1- 9769 74	t a&aFAe:Name:9	S25c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	71 2	SU7	SU8	SU7	SU6	4U06	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	85 1				52		G
Y&&Aum	85 2				1SS		G
ZAnq	66 2	- 6U47	- 7U87	- 4U61	- 7U64	2U64	I I b
ZAqonAum	5S 1	1U76	1U7	1U0	1U4-	8U2-	I I b
ZAqonAum	51 1	1U04	1U22	1U25	1U42	15U84	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J97 2	&sTsFdP:u sb r :9	S- SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	0U76	7UJ1	6U71	6U66	12U70	DDe
q5Tb n5%	121 1	SUS0	SUS6	SUSJ	SUS0	1NUJ4	DDe
qpwr 5cd	07 2	SUS2	SUS-	SUS1	SUS2	4- USJ	DDe
Bspcmb	1- 7 1	2U6-	2UJ4	2U6S	2U7-	6U20	DDe
Bspcmb	1- 0 1	2U67	2U64	2U76	2U62	1UN-	DDe
Br p%PPmb	J 1	SUS2	SUS2	SUS1	SUS2	2- U26	DDe
Bcvb mTE	2SJ 1				J6		G
Bcvb mTE	2SJ 2				JJ		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUS7	SUS-	SUJ-	SU1S	1J1UN4	DDe
v sob cmb	1S6 1	2UJ0	- U62	6U12	4U24		DDe
v sob cmb	111 1	SUS1	SUS2	SUSN	SUS4		DDe
v sPdcmb	4- 1	67UJ0	6JU1J	64U4-	66U7-	- U67	DDe
v sPdcmb	44 1	11- UN7	117U14	1SJUJ-	112UJ0	2U4S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	1UJ1	1UJ4	1U06	1UN0	7US2	DDe
v nesPT	7J 2	SU16	SU12	SU1-	SU14	12UN7	DDe
v nDDr p	6- 2	SU40	SU71	SU41	SU46	1SU2J	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				J6		G
h nPb cmb	167 2				1SS		G
t5ocmb	117 1				J7		G
t5ocmb	117 2				J0		G
tpn5	74 2	404U11	406USJ	40- U61	404U6S	SU2N	DDe
tpn5	76 2	401U0-	4N6USO	40- UJS	400U2-	1U62	DDe
tpn5	70 2	407U7S	4JSU76	476U06	404U20	- U70	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	SUJN	SUJ-	SUJN	SUJ0	0UJ-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdPP:u sb r :9	S- SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	SUJ4	SUJ1	SU4S	SUJ7	12U4-	DDe
Lr so	2SN 1	SUJ6	SUJ4	SUJ0	SUJ6	- UJJ	DDe
LdEomb	6 1				N7		G
y sM5r womb	24 2	0U02	JUJ6	6U44	0UN4	1NU6N	DDe
y s5Ms5r wr	77 2	- U7N	- U0N	- U4-	- U6S	4UJ4	DDe
y nP%eor 5mb	J4 1	SUS-	SUSJ	SU1-	SUSN	7NUJ0	DDe
y nP%eor 5mb	J7 1	SUS0	SUS-	SUSJ	SUS6	42U64	DDe
y nP%eor 5mb	J6 1	SUS7	SU11	SUS6	SUS0	4- USN	DDe
y nP%eor 5mb	J0 1	SUS6	SUS6	SUS4	SUS7	22U74	DDe
y nP%eor 5mb	JN 1	SUS4	SUS6	SUS0	SUS6	- 2U17	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u cdkr P	6S 2	1U07	1U04	1U02	1U04	1US0	DDe
8 EnwDEnpmw	- 1 2	0UJS	JU6-	JUJ7	2U04		DDe
8 nTswwomb	- J 2	40U61	72UN0	44U7J	4NUJ6	NU66	DDe
CEnoomb	1S- 1				J7		G
CEnoomb	1S- 2				JN		G
I ds5oomb	47 1				J4		G
I ds5oomb	47 2				J6		G
I r P5omb	N2 1	SU11	SU0-	SU14	SU2-		DDe
I r P5omb	00 2	SUJN	SUJN	1UJS	SUJN	- 44U7-	DDe
I r P5omb	0N 2	SU7-	SU72	SU1-	SUJ1	121U00	DDe
I dBdn5	2N 1	1U7S	1UJ-	1UJ2	1UJN	0U24	DDe
I dBgr p	1S0 1	SUSS	SUS1	SUS1	SUSS	102U12	DDe
I dBgr p	1SJ 1	SUSS	SUSS	SUSS	SUSS		DDe
I noomb	2- 2	266UNN	267U42	26SU76	264U2N	1U27	DDe
I Tpm5Tomb	N6 1	SU26	SU22	SU2-	SU24	NU72	DDe
I Tpm5Tomb	NN 1	SU21	SU21	SU22	SU22	1U67	DDe
I mPmp	- 4 1	22U27	26NU7-	44NUJ4	246UJ0		DDe
Ar peomb	17J 1				J0		G
Ar peomb	17J 2				JN		G
AEs PBmb	2S- 1	SUS7	SUS4	SUS7	SUS7	JUJ6	DDe
AEs PBmb	2S7 1	SUS4	SUS-	SUS2	SUS-	1JUSN	DDe
Ad5	11N 1	SUJ0	SUJ4	SUJ6	SUJ6	- U64	DDe
AdS5omb	40 1	1UJ4	1U62	1U42	1U46	1SUS4	DDe
Rps5omb	2- N 1	SUSS	SUSS	SUSS	SUSS	- 4UJ4	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DPP:t&:9	3 - 724 S0	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SFqS	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- S0 12:1- 97J972	&sTsFdP:u sb r :9	S- SqC. Fub

8 sspsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	SUS4	SUS7	SUS7	SUS7	10U66	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	NJ 1				J7		G
YTTpomb	NJ 2				JN		G
Zc5d	66 2	NU0S	NU7-	NU60	NU64	1US7	DDe
Zqpdn5omb	JS 1	SUS1	SUS2	SUSS	SUS1	NNU0S	DDe
Zqpdn5omb	J1 1	SUS4	SUS1	SUS2	SUS2	17NU41	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	:SF11	:SF5-	SF50	:SF57		I I b
c5&Amn5h	121:1	SF51	SF51	SF51	SF51	74F0-	I I b
crwe5Aq	0-:2	SF57	SF5S	SF51	SF51	1S7F 6	I I b
BsrAum	17-:1	SF5S	SF51	SF5S	SF5S	181F04	I I b
BsrAum	170:1	SF5S	SF51	:SF51	SF5S	1---F41	I I b
BerhFAum	:1	SF5S	SF51	SF5S	SF51	1- F40	I I b
BAumu&%	2S :1				1S2		E
BAumu&%	2S :2				1S7		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF74	SF-7	SF14	SF74	-8F00	I I b
CsOmAum	1S6:1	:7F6-	:2F52	:7F88	:7F18		I I b
CsOmAum	111:1	:SF5-	:SF5-	:SF54	:SF5-		I I b
CsRqAum	47:1	SF7	:SF8	:1F57	:SF-1		I I b
CsRqAum	44:1	28F88	26F68	20F1	20F-8	4F18	I I b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	:SF51	SF5-	:SF56	:SF51		I I b
CnbsR&	- :2	:SF51	:SF51	SF5S	:SF51		I I b
CnI I er	67:2	SF50	SF50	SF14	SF5	78F82	I I b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S1		E
HnRmAum	16-:2				1S4		E
D5OAum	11-:1				1S1		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	SF22	:SF52	SF14	SF11	111F22	I I b
Dn5	-6:2	SF5	SF54	SF2S	SF11	04F2	I I b
Dn5	-0:2	:1F22	:SF-S	:SF74	:SF6		I I b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF51	SF5S	:SF51	SF5S	70-F	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:12914JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5S1	SF5S1	SF5S2	SF5S1	4-F1S	I I b
LesO	2S8:1	SF5S2	SF5SS	SF5SS	SF5S1	6F84	I I b
LA&%Aum	6:1				7		E
y sM5ewAum	24:2	SF24	SF1	:SF5-	SF17	127F-2	I I b
y s5Ms5ewe	- - :2	SF54	SF52	SF54	SF57	40F1-	I I b
y nPbOe5um	4:1	SF51	SF5-	SF5-	SF54	-6F1-	I I b
y nPbOe5um	- :1	SF5S	SF51	SF51	SF51	70F24	I I b
y nPbOe5um	6:1	SF51	SF52	SF51	SF51	-4F71	I I b
y nPbOe5um	0:1	SF5S	SF54	SF5S	SF51	1-8F2	I I b
y nPbOe5um	8:1	SF51	SF5S	SF5S	SF51	7F78	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF51	SF51	SF5S	SF51	- -F21	I I b
3%nwl %nruw	71:2	:7 F26	SF14	:44F46	:20F86		I I b
3n&swwAum	7 :2	4F60	6F8S	1SF8-	0F44	42F21	I I b
v %nOAum	1S7:1				1S1		E
v %nOAum	1S7:2				1S-		E
pqs5OAum	4- :1				1S1		E
pqs5OAum	4- :2				1S1		E
pefe5Aum	82:1	:SF61	:SF20	:SF1	:SF76		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	:SF-0	:SF10	SF48	:SF5		I I b
pAAqn5	28:1	SF22	SF57	SF58	SF11	SF58	I I b
pAger	1S0:1	SF51	SF51	SF5S	SF51	0F27	I I b
pAger	1S :1	SF5S	SF51	SF51	SF5S	81F6S	I I b
pnOAum	27:2	72F42	70F74	48F41	7 F7	2SF8S	I I b
p&n5&Aum	86:1	:SF57	SF50	:SF51	SF51	4-8F21	I I b
p&n5&Aum	88:1	SF57	SF57	SF5S	SF52	6F4S	I I b
pufur	74:1	:-S6F-6	:8- -F-2	:4-4F 2	:6S-F60		I I b
i erbAum	1- :1				1S2		E
i erbAum	1- :2				1S7		E
i %sPAum	2S7:1	SF57	SF54	SF54	SF54	18F7S	I I b
i %sPAum	2S-:1	SF52	SF52	SF54	SF57	24F52	I I b
i A5	118:1	:SF51	SF5S	SF1-	SF5-	1 6F21	I I b
i A&5Aum	40:1	SF5S	:SF5-	SF52	:SF51		I I b
Rrs5Aum	278:1	SF5S	SF5S	SF5S	SF5S	2F48	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 2SBL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 2S	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 4JS-J-	t s&sUAe9Nsme9J	S72CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	-1:2	:SF5S1	SF5SS	:SF5S1	SF5SS		l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S2		E
Y&&Aum	8 :2				1S8		E
ZA5q	66:2	:SF5S8	:SF5S0	SF5S7	:SF5S4		l l b
ZAqn5Aum	S:1	:SF5S1	SF5S1	SF5SS	SF5SS	1-86F4-	l l b
ZAqn5Aum	1:1	SF5SS	:SF5S1	:SF5S1	:SF5S1		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J14aS a14	t w&WJA8 Juwb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	77F6	74F-S	4SF-0	76F2-	1SF70	l l e
c5&b n5h	12191	7F1N	7F2-	7F2N	7F27	1F-4	l l e
cpl r 5Aq	0-92	1FNS	1F 1	1F62	1F0N	NF7S	l l e
BwpAmb	17-91	1-F76	16F41	16F72	16FS7	7F62	l l e
BwpAmb	17091	1-F6N	16F7-	16F10	16FS0	2F16	l l e
Br ph8Amb	91	1F62	1F6S	1F-1	1F-N	7F6-	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S-		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	2FSN	1F 0	2FN4	2F2	2SF-	l l e
CwCb Amb	1S691	SF1-	9-F4N	SF74	91F66		l l e
CwCb Amb	11191	1F S	1F00	1F64	1F00	0F2N	l l e
Cw&pAmb	4791	04SF02	024FN2	02NF-0	071F70	1F14	l l e
Cw&pAmb	4491	0-4F06	07 F61	062F01	0-2F76	1F-6	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&npA5r	7-91						ql l
C%&npA5r	7-92						ql l
C%pmb Amb	-292	7F27	7F1N	7F21	7F21	SF0N	l l e
Cnew&&	- 92	1F6N	1F6	1F6	1F6	SF7S	l l e
CnI l r p	6792	7F6S	7F67	7F6S	7F61	SF-7	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8A5Amb	16S91						ql l
GwOn8A5Amb	16S92						ql l
Hn8b Amb	16-91				1S7		E
Hn8b Amb	16-92				1S-		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S7		E
Dpn5	-492	774F0N	742F70	776FN2	770F	1F16	l l e
Dpn5	-692	774FN4	77 F-N	772F2-	77-F-6	1F11	l l e
Dpn5	-092	726F0-	726F-N	720FS4	726F0	SFS0	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F4	1F-2	1F4N	1F-S	1F42	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 2SB:	D5l &pmb 5r &uwb r Ja	3N
C&A5&J wb l &JD JaJ	LC: 2S	t A&m&A5JJwq&apJa	1
t w&JTJ A&r Jc qdmA&r QJa	2S279S0912J14aS a14	t w&wJA&JuwbrJa	S77LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F-	1F40	1F4	1F- S	2F06	l l e
Lr wO	2SN91	1F4	1F- 1	1F40	1F4	1F7	l l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	N- 7F- 1	N- 2F14	N7NF76	N4NFSS	SF	l l e
y w5Mw5r l r	- - 92	1F02	1FN6	2FSS	1FN6	0F4	l l e
y n8neOr 5mb	491	NFNS	NF- 1	NF6-	NF0	1F- 2	l l e
y n8neOr 5mb	- 91	0F71	0F7S	0F- 6	0F7	1F 6	l l e
y n8neOr 5mb	691	0F46	0F- 1	0F6-	0F- 4	1F7S	l l e
y n8neOr 5mb	091	0FS4	0F6N	0F7	0F70	4F76	l l e
y n8neOr 5mb	N91	0F4S	0F2-	0F40	0F70	1F- 0	l l e
u r nOhb Amb	1- S91						ql l
u r nOhb Amb	1- S92						ql l
u Aqkr 8	6S92	1FN6	2F1S	2FS6	2FSS	6F74	l l e
3 %nl l %npm	7192	920FN-	916FN2	971F6	92- F4-		l l e
3 n&wl l Amb	7 92	N12F N	N2 F-	NS0F- N	N16F0S	1F4S	l l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4- 91				1S1		E
: qw5OAmb	4- 92				1S1		E
: r & 5Amb	N291	NFSN	NF- 4	NF- 0	NF4S	7F2	l l e
: r & 5Amb	0092	12F66	1SF62	4F00	F7-	47FNS	l l e
: r & 5Amb	0N92	F4S	1SF- 4	NFS0	F74	17F2-	l l e
: A&qn5	2N91	1F22	SF 4	1F11	1FS	17FS7	l l e
: A&gr p	1S091	1F4	1F64	1F01	1F61	6F N	l l e
: A&gr p	1S 91	1F64	1F67	1F62	1F67	SF6S	l l e
: nOAmb	2792	NN7FNN	S1F4N	N- SF7	N0NF- N	2F -	l l e
: &m5&Amb	N691	1F02	1F- 6	1F6S	1F67	- F1-	l l e
: &m5&Amb	NN91	1F6S	1F- 4	1F- 4	1F- 6	2FS0	l l e
: m&mp	7491	9476FS0	956- F2N	9470F27	9- 12FN6		l l e
i r peAmb	1- 91				1S2		E
i r peAmb	1- 92				1S4		E
i %w&Amb	2S791	1F- 0	1F- 0	1F- N	1F- 0	SF2N	l l e
i %w&Amb	2S- 91	1F- -	1F- 2	1F- 6	1F- 4	1F2N	l l e
i A5	11N91	SFS4	9SFS2	SFS2	SFS1	24SF- 0	l l e
i A&w5Amb	4091	NF7S	0FN2	0F64	0F 2	4F71	l l e
Rpw5Amb	27N91	1F47	1F46	1F46	1F4-	1F26	l l e

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Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 2SB:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 2S	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J14aS a14	t w&WJA8 Ju wb r Ja	S77LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	- 192	NF74	NF- N	NF- 7	NF4N	1F4N	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pA mb	N 91				1S2		E
Y8&pA mb	N 92				1S-		E
ZA5q	6692	NF S	F41	NF42	NF 1	- F- 0	l l e
ZAqn5Amb	S91	1F41	1F4N	1F40	1F4-	2F61	l l e
ZAqn5Amb	191	1F- -	1F- S	1F47	1F4	7F 0	l l e

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 896Fh1	1- 0h9F96	1- 2hhF88	1- 69SF08	2F24	l l b
cn&Amon%	12171	SF0-	SF81	SF81	SF0h	9F68	l l b
crsenAq	0972	28F89	26F98	26F- 6	20F26	9FS6	l l b
BarAum	1- 971	- 0hF4S	- 88F28	- h0F24	- 88F- 1	2F- S	l l b
BarAum	1- 071	- 00F2S	- 86Fhh	- hhFS-	- 80F04	2F82	l l b
Ber%lAum	h71	1F81	1F86	1F08	1F82	2FS4	l l b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	2FS8	- F16	1F0S	2F- 2	- 2F60	l l b
RaOmAum	1S671	7SF91	1FSh	7SF- 2	SFSh	h84F69	l l b
RaOmAum	11171	1F90	1F44	1F90	1F9-	9FSS	l l b
RalqAum	4- 71	1819SF4-	189h- FS4	1h- - 0F60	186h- F01	- F21	l l b
RalqAum	4471	18880F86	1h6- 1FS2	1h4S6F- 2	1h- S8F4S	1Fh0	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22F- 0	22F64	21F2S	22FS0	- F46	l l b
Robal&	9h72	16F98	10FS0	16FS1	16F99	- F2S	l l b
Rol l er	6- 72	09F9h	06F41	01F22	04F41	- F09	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S9		G
y olmAum	16972				1S6		G
DnOAum	11971				1S9		G
DnOAum	11972				1S4		G
Don	9472	4- 2S4Fh-	4- Sh2FSS	4S611F06	42- S2FhS	- F46	l l b
Don	9672	424- 4F48	422S4F80	4S262F41	416- - Fh2	2F80	l l b
Don	9072	42- - 0F6h	42814F20	4S2- 0F00	410h6F90	- F28	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	89F44	89Fh8	88Fh1	86F00	2F19	l l b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	82F4S	8- F9-	84F6S	8- F91	1F- 1	I I b
LeaO	2S871	84F99	89F90	80F14	89F09	1F92	I I b
LA&EAum	671				h-		G
MagnesAum	2472	6691F91	66S4F88	6- 69FS-	694SF40	2F- 9	I I b
Manganese	9972	1S21F61	1S1SF14	h90FS9	hh6F20	- F46	I I b
Mol%bOenum	h471	12F14	12F29	12F99	12F- 1	1F0-	I I b
Mol%bOenum	h971	1F66	1F04	1FB1	1F0-	4F- 0	I I b
Mol%bOenum	h671	2FB4	2FBS	2Fh-	2FB6	2F20	I I b
Mol%bOenum	h071	1F01	1FB9	1F06	1F00	- FB4	I I b
Mol%bOenum	h871	1F08	1F09	1FB1	1F08	1Fh4	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- - F29	- - F10	- 1F22	- 2F94	- F9-	I I b
PEosI Eorus	- 172	- 62SFh2	- 208F4h	- 496F- S	- 491FhS	4Fh6	I I b
Po&assAum	- h72	9- 01FS-	9- 4SF- 8	9S84Fh6	9269F46	2Fh8	I I b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S2		G
pelenAum	8271	2FSh	1F92	1F9h	1F0-	18FS2	I I b
pelenAum	0072	49FB8	- 0F- 1	4- F66	42F28	1SF91	I I b
pelenAum	0872	hF1h	0Fh1	8F- 0	8F4h	0F60	I I b
pAAqon	2871	2- 6FB4	242Fh4	29SFS2	24- F26	2F01	I I b
pAver	1S071	SF- 0	SF- 0	SF- 6	SF- 0	SF- 6	I I b
pAver	1Sh71	SF- 4	SF- 4	SF- h	SF- 6	hF29	I I b
poOAum	2- 72	22SF4h	22- Fh8	2ShFS-	210FB-	- F9h	I I b
p&ona&um	8671	101F40	166F04	16hF64	16hF28	1F41	I I b
p&ona&um	8871	109F- 2	10- F68	108F4S	109FBS	1F- 6	I I b
pulfur	- 471	718SF91	7216F48	7168Fh9	7188F64		I I b
i erbAum	19h71				1S0		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 6	SF- 6	SF- 9	SF- 6	SF69	I I b
i EallAum	2S971	SF- -	SF- 9	SF- 9	SF- 4	- FB2	I I b
i An	11871	1F98	1F62	1F09	1F69	9F- S	I I b
i A&anAum	4071	116F28	12SF- h	124F6S	12SF42	- F46	I I b
UranAum	2- 871	- F29	- F- -	- F42	- F- -	2F98	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S1	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S2	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:12:19	t a&a. Ae Name :	S- 4c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	9hFS1	98F49	99F8-	90F06	2Fh4	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S8		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 21F8h	- 21F92	- S2F04	- 19F- h	- F40	l l b
ZAqonAum	hS71	6F11	6FSh	6F- 9	6F18	2F- 9	l l b
ZAqonAum	h171	6F11	6FS2	6FS1	6FS9	SF86	l l b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	1- 6S4F14	19S61F84	1- 619F80	14Sh- Fh9	9Fh9	l l b
cn&Amon%	12171	SF82	SF08	SF08	SF8S	- F2-	l l b
crsenAq	0972	29FhS	- 1F49	29Fh1	20F09	11F9-	l l b
BarAum	1- 971	- h- F- 6	- 6hF26	- h2F96	- 89FS6	- F96	l l b
BarAum	1- 071	- hSF68	- 04F19	4SSF8-	- 88F96	- F40	l l b
Ber%lAum	h71	1F01	1F04	1F0S	1F02	1F11	l l b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	2FS9	2FS9	2F14	2FS8	2F49	l l b
RaOmAum	1S671	1F29	1F82	7SF42	SF88	1- 1F61	l l b
RaOmAum	11171	1F9S	1F46	1F48	1F48	1F- 6	l l b
RalqAum	4- 71	1821SF44	184S- F01	18102F90	18262F24	SF68	l l b
RalqAum	4471	1hS- 6F8S	18614F40	18689F09	1800hFSS	1F2S	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	22FS4	24FS4	21F99	22F94	9F89	l l b
Robal&	9h72	16F84	18F02	16F61	10F- h	6F68	l l b
Rol l er	6- 72	02Fh1	81F42	0- F96	09Fh6	6F2-	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1Sh		G
y olmAum	16972				1S9		G
DnOAum	11971				1Sh		G
DnOAum	11972				1S-		G
Don	9472	4126- F- -	46S82F9-	418S0F44	4- S91F1S	6F1-	l l b
Don	9672	41826F18	49- 11F8S	41- h4F- h	42844F12	9FS1	l l b
Don	9072	4268- F49	46- - 2F1h	41614F91	4- 94- F- 8	9F68	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	86F96	89F96	80F60	86F6S	1F22	l l b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	8- F4h	82F86	84F99	8- F6-	1FS2	I I b
LeaO	2S871	89F01	84F4-	89F0h	89F- 1	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	694- F88	02S8F6-	649hF2h	60- 0F20	6FSh	I I b
Manganese	9972	h89F81	1S8- F81	hhSFh-	1S2SF18	9F41	I I b
Mol%bOenum	h471	11F04	11F49	11Fh6	11F02	2F21	I I b
Mol%bOenum	h971	1Fh-	1F02	1F00	1F81	6F12	I I b
Mol%bOenum	h671	2F09	2F01	2F89	2F00	2F64	I I b
Mol%bOenum	h071	1F84	1F04	1F66	1F09	9F19	I I b
Mol%bOenum	h871	1F06	1F09	1F00	1F06	SF99	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2F46	- 6F- 8	- 2F60	- - F8-	6F92	I I b
PEosI Eorus	- 172	- 4h4F49	- 8- 4F44	- - 48F96	- 99hF19	0FS1	I I b
Po&assAum	- h72	91h0F8h	9084F64	9169F- 0	9- 82F6-	6F48	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1Sh		G
pqanOAum	4972				1S2		G
pelenAum	8271	1F48	1F9h	1F06	1F61	8F88	I I b
pelenAum	0072	- 9F- 8	48F6S	4SF8-	41F61	19Fh0	I I b
pelenAum	0872	6F82	hFh2	6F61	0F08	2- F8-	I I b
pAAqon	2871	2- 9F8-	241F6S	2- SF04	2- 6FS9	2F- S	I I b
pAver	1S071	SF- 0	SF- 4	SF- 0	SF- 6	9F- 2	I I b
pAver	1Sh71	SF41	SF- 0	SF41	SF4S	6F- 8	I I b
poOAum	2- 72	21- F2S	249F89	212FS9	22- F0S	8F98	I I b
p&on&Aum	8671	16- F61	198F16	162F9S	161F4-	1F08	I I b
p&on&Aum	8871	101FS4	166F20	10SF21	16hF10	1F91	I I b
pulfur	- 471	7928F- h	762SFhS	78- hF0h	766- FS-		I I b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S6		G
i EallAum	2S- 71	SF- 0	SF- 2	SF41	SF- 0	12F28	I I b
i EallAum	2S971	SF- 0	SF- 9	SF- 8	SF- 0	4F41	I I b
i An	11871	1F01	1F9h	1F6h	1F60	- F80	I I b
i A&anAum	4071	119F21	118F8S	116F61	116F80	1F99	I I b
UranAum	2- 871	- F24	- F2h	- F- 0	- F- S	2FS1	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S2	Dns&umne&Name :	P8
RlAn&pamI le D :	My S. S2t	t Au&on . aq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 14:19:14	t a&a. Ae Name :	S- 9c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	96F8-	6- F14	98F- 2	9hF4-	9F94	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				114		G
ZAnq	6672	- 1- F0S	- - 8Fh4	- 12F89	- 21F8-	4F61	l l b
ZAqonAum	hS71	9F0h	9F8-	6FSS	9F80	1F89	l l b
ZAqonAum	h171	6F11	9FhS	6F1-	6FS9	2FS8	l l b

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARuminium	23O2	2944.- 4	2974.73	- 1- - .36	- O1O.J9	- .74	ppb
Antimony	12101	O.16	O.1J	O.17	O.16	3.J9	ppb
Arwenic	37O2	6.43	7.3O	6.- 6	6.1J	6.34	ppb
Bsrium	1- 701	34.63	3J.4J	3J.3J	33.- 1	2.96	ppb
Bsrium	1- 301	37.J4	39.39	J1.O6	3J.9O	- .47	ppb
BeryRRum	901	O- 6	O- 2	O.4O	O- 6	1O.J1	ppb
Biwmuth	2O901				1OJ		%
Biwmuth	2O9O2				1O4		%
Bromine	J101						cpw
Csdmium	1OJ01	O- 3	O.2-	O.23	O.29	24.46	ppb
Csdmium	1O601	04.7O	02.12	04.24	0- .62		ppb
Csdmium	11101	O.2J	O- 6	O- 6	O- -	14.- -	ppb
CsRium	4- 01	- 6O6.99	- 912.46	- J77.J2	- 391.36	4.29	ppb
CsRium	4401	- 6OJ.61	- J93.J9	- JJ1.O3	- 397.J6	4.2J	ppb
Csrbon	1201						cpw
Csrbon	12O2						cpw
ChRorine	- 701						cpw
ChRorine	- 7O2						cpw
Chromium	72O2	4.3J	4.67	4.J6	4.36	2.2J	ppb
CobsRR	79O2	- .6O	- .76	- .J3	- .63	4.79	ppb
Copper	6- O2	17.J-	17.J9	16.6J	16.14	2.94	ppb
Dywprowium	1760 1						cpw
Dywprowium	1760 2						cpw
Erbium	1640 1						cpw
Erbium	1640 2						cpw
GsdoRRnium	16O01						cpw
GsdoRRnium	16O02						cpw
HoRRnium	1670 1				1O9		%
HoRRnium	1670 2				1O4		%
Indium	1170 1				1OJ		%
Indium	1170 2				1O-		%
Iron	74O2	J726.2-	J- 1O.77	J9JJ.- -	J6OJ.- 3	4.O2	ppb
Iron	76O2	J9J- .32	J9OJ.24	9- 37.3O	9OJ9.22	2.36	ppb
Iron	73O2	J794.- 2	J2J- .41	J92J.- J	J6O2.O4	- .37	ppb
Krypton	J- 01						cpw
Lesd	2O601	13.- 6	1J.13	1J.3J	1J.1O	- .94	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.34	13.1-	13.94	13.23	- .76	ppb
Lesd	2OJ01	13.1-	13.6J	1J.2O	13.63	- .O4	ppb
Lithium	601				99		%
Msgnewium	24O2	1- 92.93	1- J6.79	17OJ.6J	1429.41	4.J1	ppb
Msngsnewe	77O2	216.O2	21- .O4	224.1O	213.32	2.6-	ppb
MoRybdenum	9401	2.61	2.62	2.62	2.62	O.26	ppb
MoRybdenum	9701	O.- 7	O.41	O.- 9	O.- J	J.11	ppb
MoRybdenum	9601	O.6O	O.77	O.6O	O.7J	4.41	ppb
MoRybdenum	9301	O.- 9	O.4J	O.4-	O.4-	1O.1-	ppb
MoRybdenum	9J01	O.- 9	O.- 9	O.4-	O.4O	4.32	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	6.39	3.O-	3.46	3.O9	4.33	ppb
8howphoruw	- 102	364.3O	314.O4	J31.94	3J- .76	1O.29	ppb
8otswwium	- 902	1161.42	1OJ6.22	1222.O4	1176.76	7.JJ	ppb
Rhodium	1O- 01				1OJ		%
Rhodium	1O- 02				1O4		%
Scsndium	4701				1O9		%
Scsndium	4702				1O1		%
SeRenium	J201	O.16	O.O3	O.O7	O.1O	73.42	ppb
SeRenium	3302	4.96	3.3J	6.- -	6.- 6	22.19	ppb
SeRenium	3J02	1.- 6	2.13	- .14	2.22	4O.O6	ppb
SiRcon	2J01	43.1J	49.43	49.J3	4J.J4	2.93	ppb
SiRver	1O301	O.O6	O.OJ	O.O3	O.O3	12.66	ppb
SiRver	1O901	O.OJ	O.O3	O.O6	O.O3	17.19	ppb
Sodium	2- 02	36.16	6J.43	J7.3-	36.39	11.26	ppb
Strontium	J601	- 7.- 9	- 6.- 3	- 6.73	- 6.11	1.34	ppb
Strontium	JJ01	- 4.22	- 7.JJ	- 7.2J	- 7.1-	2.- 9	ppb
SuRfur	- 401	021- 9.1-	01462.74	01391.J-	01393.J-		ppb
Terbium	17901				11O		%
Terbium	17902				1O4		%
ThsRium	2O- 01	O.17	O.14	O.1-	O.14	6.49	ppb
ThsRium	2O701	O.14	O.1-	O.14	O.14	7.JO	ppb
Tin	11J01	O.- 1	O.- 2	O.- 4	O.- 2	7.J2	ppb
Titsnium	4301	2- .66	27.- -	26.O1	27.OO	4.J-	ppb
Ursnium	2- J01	O.67	O.66	O.66	O.66	1.OJ	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	12.- 4	12.2O	1- .1O	12.77	- .J9	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1OJ		%
Yttrium	J90l2				1O6		%
Zinc	660l2	63.- 1	67.- 4	31.76	6J.O3	4.63	ppb
Zirconium	9O0l	1.2O	1.26	1.- O	1.27	- .67	ppb
Zirconium	910l	1.11	1.- -	1.41	1.2J	12.O9	ppb

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14401.P2	14- - 4.Sy	14y14.0P	14h0- .h6	2.SP	ppm
Aotiu Oo%	12171	1P.6h	24.P-	1P.- S	2S.hy	10.Ph	ppm
Aeaboic	0h72	- 4.S-	- 4.Sh	- h.10	- 4.42	1.Py	ppm
BJeiNu	1- h71	0P- .PP	1S6h.2P	006.- P	P0h.1P	1P.P2	ppm
BJeiNu	1- 071	P- 1.26	1Syy.01	P- S.6P	y2S.hh	16.Ph	ppm
Bbe%wiNu	y71	11.0S	14.yh	11.P1	12.P2	14.41	ppm
Biau NtE	2Sy71				1S1		G
Biau NtE	2Sy72				1S0		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1S.SS	12.yS	1S.S1	1S.y0	1h.2h	ppm
UJdu iNu	1S671	P.h-	12.24	0.PP	y.hh	24.61	ppm
UJdu iNu	11171	11.21	1h.42	11.16	12.6S	1y.42	ppm
UJwiNu	4- 71	1Phy2.P4	2h1hP.P0	1y6S4.S2	2111P.hP	16.04	ppm
UJwiNu	4471	1yh26.h2	2hP00.P4	1yP4P.6-	210h1.SS	16.4h	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	61.PS	62.2S	6h.SS	6- .SS	2.00	ppm
UOmJwv	hy72	11P.- 1	11P.- S	12- .04	12S.11	2.61	ppm
UOppbe	6- 72	126.hh	12h.41	1- S.P4	120.6S	2.2h	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5 emiNu	16471						cpa
5 emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S2		G
MOw iNu	16h72				11S		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S0		G
IeOo	h472	4261h.hS	4- - - P.12	4- yP4.64	4- - 12.0h	1.hP	ppm
IeOo	h672	41Py0.yP	4- S- S.- h	4- y4y.12	42yhy.1h	2.- y	ppm
IeOo	h072	42S- h.44	42P24.P1	440- 2.4y	4- 1y0.hP	- .21	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	yh.16	12S.10	y4.yS	1S- .41	14.S-	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	y1.hh	116.1-	y2.S2	yy.yS	14.S0	ppm
LbJd	2SP71	y- .04	110.y-	y- .2S	1S1.62	1- .yS	ppm
LitEiNu	671				yh		G
g JvobaiNu	2472	664P.0S	60- 6.- 2	606y.0S	601P.24	S.y-	ppm
g JovJobab	hh72	11S4.S2	1Syh.4P	1122.P4	11S0.4h	1.26	ppm
g O%mdboNu	y471	11.42	14.0S	12.16	12.06	1- .4P	ppm
g O%mdboNu	yh71	1.01	2.26	1.6y	1.Py	10.- 4	ppm
g O%mdboNu	y671	2.0P	- .- P	2.0S	2.y6	12.40	ppm
g O%mdboNu	y071	1.hy	2.14	1.6S	1.0P	10.h2	ppm
g O%mdboNu	yP71	1.6P	2.11	1.6-	1.P1	14.0h	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	142.0S	142.0-	146.22	14- .PP	1.41	ppm
I EOapEOeNa	- 172	- h4h.yy	- h10.S2	- 0Sh.y-	- hPy.64	2.P-	ppm
I OtJaaiNu	- y72	h- 66.04	h- 6y.S6	hh60.2S	h4- 4.- -	2.12	ppm
n EOdiNu	1S- 71				yy		G
n EOdiNu	1S- 72				1SP		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S6		G
r bwboiNu	P271	1y.h0	2h.- 0	1y.yS	21.61	1h.S0	ppm
r bwboiNu	0072	h0.SS	4y.S1	6y.h6	hP.h2	10.0S	ppm
r bwboiNu	0P72	2h.14	20.- 2	20.yP	26.P1	h.hh	ppm
r iwcOo	2P71	26S.2y	- - 1.41	262.21	2P4.64	14.2-	ppm
r iwRbe	1S071	P.hh	11.61	P.66	y.61	1P.S0	ppm
r iwRbe	1Sy71	P.hh	11.- 0	P.h-	y.4P	10.21	ppm
r OdiNu	2- 72	26S.0h	261.26	26y.- 2	26- .0P	1.P2	ppm
r teOotiNu	P671	164.- 1	221.1h	101.y2	1Ph.0y	16.61	ppm
r teOotiNu	PP71	101.S4	22P.22	1PS.y6	1y- .41	1h.PS	ppm
r NwNe	- 471	71S62.1y	224S.4h	702- .Py	1h1.46	11yy.6P	ppm
TbemiNu	1hy71				1S2		G
TbemiNu	1hy72				1SP		G
TEJwiNu	2S- 71	P.P-	11.16	P.P4	y.61	1- .y6	ppm
TEJwiNu	2Sh71	P.P0	11.1S	P.y4	y.64	1- .1P	ppm
Tio	11P71	1.y0	2.P6	2.S1	2.2P	21.P2	ppm
TitJoiNu	4071	112.hy	140.16	114.- y	124.01	1h.61	ppm
F eJoiNu	2- P71	- .44	4.- 2	- .44	- .0-	1- .hh	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCS2r	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:21:1-	DJtJCiwb 8 Ju b :	S- 0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	161.SP	162.- 1	160.S1	16- .40	1.y1	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1S0		G
YtteiNu	Py72				11y		G
Zioc	6672	42y.- y	42h.y2	4- 6.S0	4- S.46	1.2S	ppm
ZiecOoiNu	yS71	h.06	0.0S	6.1S	6.h2	1h.Ph	ppm
ZiecOoiNu	y171	h.Ph	0.4P	h.y6	6.4-	14.10	ppm

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	16849F- S	148h0F21	16289F92	1h998F81	6F42	I I b
cn&Amon%	12171	SFh-	SF49	SF46	SF49	0F- S	I I b
crsenAq	0h72	- 1F20	29F29	29Fh1	- SFS-	- F61	I I b
BarAum	1- h71	6S6F86	h22F4S	hS4F89	h44F02	1SFS1	I I b
BarAum	1- 071	618F64	h28F6h	h14F88	hh4FS6	1SF10	I I b
Ber%lAum	971	2F22	2FS4	1F9-	2FS6	0F12	I I b
BAsmu&E	2S971				1S-		G
BAsmu&E	2S972				112		G
BromAne	8171						ql s
RaOmAum	1S871	1F62	1Fh1	1F0-	1F62	6F0h	I I b
RaOmAum	1S671	71F8h	1F48	71F28	7SFhh		I I b
RaOmAum	11171	1F69	1F- 2	1F2-	1F41	10F19	I I b
RalqAum	4- 71	220- hF28	19494FS9	19140F16	2S4h8F84	9F60	I I b
RalqAum	4471	2- 662F0h	2S24- F12	19h94F18	21166F68	1SF- -	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	- SF98	20F69	29Fh8	29F42	hF62	I I b
Robal&	h972	2- F9-	21FSh	2- F41	22F09	6F04	I I b
RoI I er	6- 72	68Fhh	61F20	60FS-	6hF61	hF8h	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S4		G
y olmAum	16h72				11-		G
DnOAum	11h71				1S2		G
DnOAum	11h72				11S		G
Don	h472	h46- 8F0-	48904F84	h261hF- 2	h2S06F- S	hFh1	I I b
Don	h672	h- 6- 1F88	48488F48	h2S90F06	h14S6FS4	hF14	I I b
Don	h072	hh641F11	4096- F08	h2860F2h	h21h0F- 8	0F4h	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S4F0-	89FSh	88F8-	94F2S	9F68	I I b

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	98F2-	84F92	8hF11	89F42	8Fh-	I I b
LeaO	2S871	1S1Fh1	80F22	86F88	91F80	9FS9	I I b
LA&EAum	671				96		G
MagnesAum	2472	0h88F96	6684F66	0- 04F9h	0216F19	6Fhh	I I b
Manganese	hh72	1112F99	1SShF- 9	1S6SF22	1Sh9Fh-	hFS8	I I b
Mol%bOenum	9471	1SF82	8F84	9FhS	9F02	1SF- 8	I I b
Mol%bOenum	9h71	2F12	1F01	1F08	1F80	11F80	I I b
Mol%bOenum	9671	2F99	2Fh2	2F6-	2F01	8F96	I I b
Mol%bOenum	9071	2F2h	1F6S	1F00	1F80	10F92	I I b
Mol%bOenum	9871	2FS8	1F06	1F09	1F88	9F48	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	49F00	4- F99	40F04	40F10	6F22	I I b
PEosI Eorus	- 172	- - 19FSS	2886F89	- 194F4-	- 1- - F44	0F1S	I I b
Po&assAum	- 972	4SShF48	- h- - F42	- 862F80	- 8SSFh9	6F- 0	I I b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				112		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S9		G
pelenAum	8271	2F40	1F- 6	1F01	1F84	- SF0h	I I b
pelenAum	0072	4SF- 2	4- Fh4	2hF44	- 6F4-	26FhS	I I b
pelenAum	0872	1SF10	9F- 1	8F18	9F22	1SF84	I I b
pAAqon	2871	- 28F4-	282F80	28- F- -	298F21	8F08	I I b
pAver	1S071	SF40	SF40	SF4S	SF4h	8F69	I I b
pAver	1S971	SFh1	SF41	SF4h	SF4h	1SF08	I I b
poOAum	2- 72	42SF61	- h6F80	4S2F11	- 9- F2S	8F- 4	I I b
p&on&Aum	8671	212FSh	182F81	18hF61	19- F49	8F- 4	I I b
p&on&Aum	8871	21- F10	19SFh0	19SF19	190F98	6F6h	I I b
pulfur	- 471	7100Fh2	71h99F0-	716h8F18	7114hF14		I I b
i erbAum	1h971				1S2		G
i erbAum	1h972				111		G
i EallAum	2S- 71	SFh2	SF- 9	SF4h	SF4h	14F08	I I b
i EallAum	2Sh71	SFhS	SF4-	SF4h	SF46	8F- 8	I I b
i An	11871	1F88	1F62	1Fh0	1F69	9Fhh	I I b
i A&anAum	4071	94F88	82FS9	8SFS-	8hF60	9F- 9	I I b
UranAum	2- 871	4F8h	4F21	4F24	4F4-	8FS6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S4	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. S-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:24:S9	t a&a. Ae Name :	S- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	h172	0- F1h	6hF92	01FS4	0SFS-	hF- 1	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8971				1S9		G
Y&&Aum	8972				122		G
ZAnq	6672	29SFS6	2h4F61	20- Fh2	202F0-	6FhS	l l b
ZAqonAum	9S71	hF19	4Fh6	4Fhh	4F00	0F01	l l b
ZAqonAum	9171	hF- 6	4F46	4F- -	4F02	11F9-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJv onqU	v onqCpt	RnA&w
cRmAAum	2072	146 SU0J	14246U 1	1441JUS2	144- JU44	1U41	l l b
cn&Amon%	12171	SUJ 1	SU0	SU05	SU0J	- UJ 1	l l b
crwenAq	0 72	4SU66	- JU-1	- JU64	- 5U2S	- U2-	l l b
BsrAum	1- 71	- J6UJ0	- 54U6	- J5U25	- 5SU20	1US2	l l b
BsrAum	1- 071	- 51U2	- 5JUS0	- 54UJ-	- 54U02	SUJ6	l l b
Ber%RAum	571	2U1S	2U1S	2US5	2U1S	SU-2	l l b
BAumu&E	2S571				1SJ		G
BAumu&E	2S572				1S5		G
BromAne	J171						ql w
v sOmAum	1SJ71	1UJ4	1U50	1UJ0	1UJ5	- U45	l l b
v sOmAum	1S671	2US5	1U44	7SU0-	SU5-	1 JUJ	l l b
v sOmAum	11171	1U6	1U-	1U	1UJ	4U15	l l b
v sRqAum	4- 71	4120 U40	41 2SU14	410 1U16	41 1 U5	SU0	l l b
v sRqAum	4471	42J15U41	4242- UJ	421S- USJ	4244JU62	SUJ	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAne	- 71						ql w
v ERrAne	- 72						ql w
v EromAum	272	- - U14	- 2U22	- - U1	- 2UJ4	1U62	l l b
v obsR&	572	2SU0	2SU1J	2SUJ	2SU4-	1U44	l l b
v ol l er	6- 72	JUSS	0U1S	0U62	0UJ	SU05	l l b
t %wl rowAum	1 671						ql w
t %wl rowAum	1 672						ql w
. rbAum	16471						ql w
. rbAum	16472						ql w
HsOoRAum	16S71						ql w
HsOoRAum	16S72						ql w
hoRmAum	16 71				1S5		G
hoRmAum	16 72				11S		G
DrOAum	11 71				1S		G
DrOAum	11 72				1S0		G
Don	472	4- 20- US	425- U05	4- 650UJ	4- - S2US0	SUJJ	l l b
Don	672	4- S20US6	42 55U-	425- US1	42J - UJ0	SU-	l l b
Don	072	44S22U6	4- 6 4UJ0	42J- 4U60	4- S- U5S	1U4S	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	6JU4	65US1	6JU11	6JU2	SU66	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- 7S0712:1492209SJ	t s&sFAe:Nsme:9	S- 5c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	6 U05	6 U64	64U6-	6 U6	SU56	I I b
LesO	2SJ71	60U1J	66U52	66U54	60US1	SU22	I I b
LA&EAum	671				55		G
y sMnewAum	2472	12 JJU24	12126U21	12154U64	12- S- US-	2US-	I I b
y snMsnewe	72	21- 6U44	2S 5UJ	216 U50	212SU0	2U J	I I b
y oP%bOenum	5471	0UJ	0U56	JU26	JUS2	2U65	I I b
y oP%bOenum	5 71	- U52	- U5	4U2	4US4	4U46	I I b
y oP%bOenum	5671	4U45	4U-4	4U4	4U4-	1U01	I I b
y oP%bOenum	5071	4U16	4U26	4US	4U1	2U 2	I I b
y oP%bOenum	5J71	- U52	- UJ J	4U15	4USS	4U2S	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	44US6	4- U4J	4- U60	4- U0-	SU6J	I I b
8 EowI Eoruw	- 172	- 515U50	- 04JU-1	- 5S0U0	- J JU6J	2U4J	I I b
8 o&swwAum	- 572	J- 5U0J	665U65	5- 5U01	J16U4S	2U-	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S5		G
pqsnOAum	4 71				1S6		G
pqsnOAum	4 72				1S6		G
pe?enAum	J271	2U21	2US1	2U10	2U1-	US6	I I b
pe?enAum	0072	44UJ0	4U24	40U62	4JU51	5UJ6	I I b
pe?enAum	0J72	1SU-S	JU5S	5U-J	5U 2	0U4J	I I b
pA?qon	2J71	2 6US4	2 U6	261U2	2 0U61	1U2-	I I b
pA?ger	1S071	SU4J	SU40	SU45	SU4J	2U50	I I b
pA?ger	1S571	SU S	SU 1	SU46	SU45	U45	I I b
poOAum	2- 72	- 6JU55	- 4U4S	- 6SU	- 61U-1	2US-	I I b
p&on&Aum	J671	1J2U56	1J1U-	1J5U05	1J4U0S	2U4-	I I b
p&on&Aum	JJ71	151U25	1J6UJ6	15SU22	1J5U46	1U22	I I b
pu?ur	- 471	2454U42	26- - U2	2J1 U62	2640UJ	6USJ	I I b
i erbAum	1 571				1S5		G
i erbAum	1 572				111		G
i EsPAum	2S- 71	SU4	SU4	SU46	SU4	1U2J	I I b
i EsPAum	2S 71	SU40	SU44	SU4	SU4	- U S	I I b
i A	11J71	1SU60	1SU6-	1SU04	1SU6J	SU	I I b
i A&snAum	4071	141U S	141UJ1	144US0	142U46	SU55	I I b
RrsnAum	2- J71	U6	U4-	U40	U2	2U1-	I I b

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Lsb:psml Re:D :9	3 - 4467S	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SFS0	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:149209SJ	t s&sFAe:Nsme:9	S- 5c C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	0SU66	65U-J	0SUSJ	0SUS4	SU52	I I b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				11		G
Y&&Aum	J572				121		G
ZAnq	6672	- 02U2-	- 60U2	- 04U52	- 01U40	1US	I I b
ZAqonAum	5S71	2U	2U -	2U06	2U62	4U54	I I b
ZAqonAum	5171	2U0-	2U0S	2U6J	2U01	SU51	I I b

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	yy16.S1	y640.11	yhP1.0y	y014.y0	1.P2	ppm
Aotiu Oo%	12171	S.PS	S.06	S.0y	S.0P	2.0P	ppm
Aeaboic	0h72	2y.S-	2P.S6	20.1P	2P.Sy	- .- 1	ppm
BJeiNu	1- h71	204.- P	24y.- 1	240.PP	2h0.1y	h.PS	ppm
BJeiNu	1- 071	20y.1P	24y.14	2hS.yh	2hy.06	6.4P	ppm
Bbe%wiNu	y71	1.61	1.hh	1.h0	1.hP	1.04	ppm
Biau NtE	2Sy71				1S6		G
Biau NtE	2Sy72				1SP		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6h	1.y1	1.y1	1.P2	P.2h	ppm
UJdu iNu	1S671	S.PP	S.2-	1.2-	S.0P	64.61	ppm
UJdu iNu	11171	1.y1	1.60	1.hP	1.02	1S.S6	ppm
UJwiNu	4- 71	4214h.Sy	- P624.61	- PhS1.S0	- y0h6.y2	h.2S	ppm
UJwiNu	4471	42yS- .y1	- y2- 0.yy	4SPhy.P6	41SSS.hy	4.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- h71						cpa
UEwOeiob	- h72						cpa
UEeOu iNu	h272	22.11	21.h6	21.Sh	21.h0	2.44	ppm
UOmJw	hy72	12.00	12.S1	12.1-	12.- S	- .- -	ppm
UOppbe	6- 72	- 6.6h	- h.yP	- h.y-	- 6.1y	1.1S	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sy		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				1Sh		G
IeOo	h472	- 1SPS.2-	- 11Py.4-	- Sh16.h0	- Sy2P.04	1.10	ppm
IeOo	h672	- SPhP.- 4	- SS6S.yS	2yy40.y4	- S2Py.S6	1.64	ppm
IeOo	h072	2PyyS.6-	2P2- P.11	2P2Ph.S6	2PhS4.6S	1.4P	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	44.62	41.- 4	41.S6	42.- 4	4.6P	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	42.0h	- P.hh	- y.Py	4S.4S	h.- 1	ppm
LbJd	2SP71	4- .4h	- y.yS	4S.yy	41.4h	4.- y	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	121P4.44	12SS- .21	11y2y.- y	12S- y.S1	1.Sy	ppm
g JovJobab	hh72	1- h- .SP	1- 22.44	1- 1S.PP	1- 2P.PS	1.64	ppm
g O%mdboNu	y471	0.62	0.20	0.2S	0.- 6	- .1-	ppm
g O%mdboNu	yh71	4.0-	4.h2	4.- 6	4.h4	4.S-	ppm
g O%mdboNu	y671	4.yP	4.6y	4.0h	4.P1	- .11	ppm
g O%mdboNu	y071	4.y1	4.0y	4.hh	4.0h	- .P6	ppm
g O%mdboNu	yP71	4.0S	4.h1	4.42	4.hh	- .Sy	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	2y.4P	2P.SP	2P.1y	2P.hy	2.01	ppm
I EOapEOeNa	- 172	2y6y.46	26S0.S4	2PP- .0P	2P2S.Sy	6.02	ppm
I OtJaaiNu	- y72	- 6P2.h-	- h- - .P1	- h- P.y6	- hPh.1S	2.- h	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1Sh		G
r cJodiNu	4h71				1S6		G
r cJodiNu	4h72				1S2		G
r bwboiNu	P271	1.P4	1.P2	1.hP	1.04	P.1y	ppm
r bwboiNu	0072	2P.h-	- 4.hh	- 2.hy	- 1.Py	y.62	ppm
r bwboiNu	0P72	1S.S-	P.hy	0.y6	P.P6	11.y6	ppm
r iwcOo	2P71	1PP.SS	106.S6	104.yh	10y.60	4.S-	ppm
r iwRbe	1S071	S.41	S.42	S.4-	S.42	2.4y	ppm
r iwRbe	1Sy71	S.46	S.- P	S.42	S.42	y.yS	ppm
r OdiNu	2- 72	- P1.y4	- 60.P1	- 6S.y4	- 0S.2-	2.Py	ppm
r teOotiNu	P671	12y.1-	11y.0P	11P.01	122.h4	4.6P	ppm
r teOotiNu	PP71	1- 4.hS	124.2P	126.h0	12P.4h	4.10	ppm
r NwNe	- 471	1S06.- 6	20h.41	214.1S	h21.y6	y2.10	ppm
TbemiNu	1hy71				1S6		G
TbemiNu	1hy72				1Sy		G
TEJwiNu	2S- 71	S.- 6	S.2y	S.2y	S.- 1	12.- -	ppm
TEJwiNu	2Sh71	S.- 2	S.- 4	S.- 2	S.- -	- .4S	ppm
Tio	11P71	1.y2	1.6-	1.P1	1.0y	P.2S	ppm
TitJoiNu	4071	124.21	114.21	116.- -	11P.2h	4.46	ppm
F eJoiNu	2- P71	- .P-	- .hS	- .h6	- .6-	4.Py	ppm

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LJmr Ju pwb ID :	3 - 4467S6	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSP	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- S:S4	DJtJCiwb 8 Ju b :	S4SAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	4h.21	44.10	44.4h	44.61	1.21	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				111		G
YtteiNu	Py72				116		G
Zioc	6672	- 0- .1y	- 02.- S	- 0S.2h	- 01.y2	S.41	ppm
ZieoOoiNu	yS71	2.14	2.S4	2.SP	2.SP	2.4-	ppm
ZieoOoiNu	y171	2.2S	1.P6	2.S-	2.S-	P.4-	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	14yy- .60	1h1- P.2S	1h14- .Sy	1hSy1.6h	S.h6	ppm
Aotiu Oo%	12171	1.4S	1.2P	1.2S	1.2y	0.y6	ppm
Aeaboic	0h72	60.P4	6y.40	6P.0S	6P.60	1.1y	ppm
BJeiNu	1- h71	4Py.40	422.- 1	4S1.10	4- 0.6h	1S.h4	ppm
BJeiNu	1- 071	4y0.y0	41P.64	4S6.14	44S.y2	11.- S	ppm
Bbe%wiNu	y71	2.- S	2.SS	1.yP	2.1S	P.6-	ppm
Biau NtE	2Sy71				1S4		G
Biau NtE	2Sy72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.64	2.S2	2.4h	2.- 0	1- .- y	ppm
UJdu iNu	1S671	S.- y	1.1h	S.0-	S.06	hS.S2	ppm
UJdu iNu	11171	- .1-	2.0-	2.- y	2.0h	1- .4-	ppm
UJwiNu	4- 71	106- y.- -	14h0h.2y	1- y6P.6y	1h- y4.4-	12.0P	ppm
UJwiNu	4471	1P21h.hP	14044.1P	14- 6S.02	1h00- .hS	1- .46	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOaiob	- h71						cpa
UEwOaiob	- h72						cpa
UEeOu iNu	h272	21.y1	22.S-	21.01	21.PP	S.0-	ppm
UOmJw	hy72	1- .- 4	1- .P2	1- .- -	1- .hS	2.S6	ppm
UOppbe	6- 72	40.00	4P.1-	4P.1P	4P.S2	S.40	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S4		G
MOw iNu	16h72				1S0		G
IodiNu	11h71				1S1		G
IodiNu	11h72				1S-		G
IeOo	h472	- hS1y.hh	- h61h.2h	- h1- 4.- y	- h2h6.4S	S.yS	ppm
IeOo	h672	- 460S.6P	- hSy4.y0	- - y1S.P0	- 4hhP.P4	1.04	ppm
IeOo	h072	- 21h6.yP	- 266h.0P	- 2- 1h.- S	- 2- 0y.- h	S.PS	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21- .P1	1P6.- 0	106.P-	1y2.- 4	y.yP	ppm

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LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	2S- .00	10- .0y	10- .h4	1P- .0S	y.46	ppm
LbJd	2SP71	21y.h1	1P4.Py	1P1.yh	1yh.4h	1S.6y	ppm
LitEiNu	671				y0		G
g JvobaiNu	2472	hy26.Ph	hy10.0h	hPS- .6S	hPP2.0-	1.10	ppm
g JovJobab	hh72	12P- .h-	12y2.1y	1204.SS	12P- .24	S.01	ppm
g O%mdboNu	y471	y.SS	0.60	6.06	0.P1	14.46	ppm
g O%mdboNu	yh71	- .y0	- .1S	- .S1	- .- 6	1h.04	ppm
g O%mdboNu	y671	4.4S	- .4h	- .- 6	- .04	1h.- 6	ppm
g O%mdboNu	y071	- .h6	- .- y	- .S1	- .- 2	P.h1	ppm
g O%mdboNu	yP71	- .01	- .24	- .1-	- .- 6	y.S6	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.h2	20.6-	20.2P	20.4P	S.60	ppm
I EOapEOeNa	- 172	266h.4S	2P1S.hP	26- 6.h1	20S4.16	- .4h	ppm
I OtJaaiNu	- y72	hy41.6-	6S2P.1y	6S4S.61	6SS- .4P	S.yS	ppm
n EOdiNu	1S- 71				1S1		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4h71				1S2		G
r cJodiNu	4h72				1S-		G
r bwboiNu	P271	1.46	S.01	1.14	1.1S	- 4.20	ppm
r bwboiNu	0072	46.4y	40.4-	44.4-	46.12	- .- -	ppm
r bwboiNu	0P72	P.20	6.00	0.2S	0.41	1S.46	ppm
r iwcOo	2P71	2Ph.4-	2- 1.00	22S.h2	24h.y1	14.11	ppm
r iwRbe	1S071	1.- 6	1.14	1.12	1.21	11.S-	ppm
r iwRbe	1Sy71	1.- 4	1.1y	1.12	1.21	P.yy	ppm
r OdiNu	2- 72	220.y1	2- 2.y-	2- 2.01	2- 1.1P	1.2-	ppm
r teOotiNu	P671	120.P0	1S6.24	1S1.- 0	111.P-	12.62	ppm
r teOotiNu	PP71	1- 1.62	11S.hS	1Sh.41	11h.Ph	12.SS	ppm
r NwNe	- 471	12hh.40	71S02.14	71h10.PS	7444.P2		ppm
TbemiNu	1hy71				1Sh		G
TbemiNu	1hy72				1S6		G
TEJwiNu	2S- 71	S.h2	S.40	S.40	S.4y	6.S2	ppm
TEJwiNu	2Sh71	S.h-	S.46	S.46	S.4P	P.26	ppm
Tio	11P71	0.2y	6.- -	6.Sy	6.h0	y.62	ppm
TitJoiNu	4071	221.41	1P- .60	104.22	1y- .1S	12.y-	ppm
FeJoiNu	2- P71	- .64	- .16	- .Sy	- .- S	y.2S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 4467S0	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSCSy	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 14:- - :S-	DJtJCiwb 8 Ju b :	S41An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	62.h0	6- .Sy	62.- h	62.60	S.61	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				116		G
Zioc	6672	- hy.SP	- 6h.02	- 6h.- P	- 6- .- y	1.S-	ppm
ZiecOoiNu	yS71	- .2h	2.0P	2.hP	2.P0	12.Sh	ppm
ZiecOoiNu	y171	- .2P	2.60	2.02	2.Py	11.0y	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149 J9Ja	&wTwFd8 :u wb r :9	S42qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMb v n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1S602U2-	1SJ0 U6-	1S606U0S	1S642UJ2	SUJ2	DDe
q5Tb n5%	12171	SU0	SUa2	SU 0	SU J	UJ1	DDe
qpl r 5cd	0J72	J U6	JaU2S	J U06	J Ua4	SUJa	DDe
Bwpcmb	1- J71	206UJ-	2 2U26	2 6USS6	2 1UJJ	1U04	DDe
Bwpcmb	1- 071	20- USS1	2 JU0J	2 1U 1	2 SU1a	2UJ-	DDe
Br p%8cmb	a71	1UJa	1U4-	1U4J	1U4-	2U2a	DDe
Bdb mTE	2Sa71				1S		G
Bdb mTE	2Sa72				1S6		G
Bpmb d5r	171						dDl
v wob cmb	1S 71	2US0	2US1	2USS6	2USJ	1U62	DDe
v wob cmb	1S671	SU2S	7SU20	1U0-	SUJJ	1 aUS0	DDe
v wob cmb	11171	1Ua	2US-	1Uaa	2USS	1U22	DDe
v w8dcmb	4- 71	aJ- 6UJJ	a466U 1	a6 JUS0	aJ62U 1	1U10	DDe
v w8dcmb	4471	1SSS- U4	aa1SUa2	1S2- UJ-	1SSJSUa	1U6	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- J71						dDl
v E8hpd5r	- J72						dDl
v Epmb cmb	J272	16UJ4	16UJ-	16UJS	16UJ2	SU14	DDe
v new8T	Ja72	aUaS	aU40	aU6a	aU6a	2U2S	DDe
v nDDr p	6- 72	- aU -	- aUaa	- aUa2	- aUa1	SU1a	DDe
&%Dpnl cmb	1J671						dDl
&%Dpnl cmb	1J672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16J71				1Sa		G
h n8b cmb	16J72				1S0		G
t5ocmb	11J71				1S		G
t5ocmb	11J72				1S4		G
tpn5	J472	26- 44U 6	26Sa1UJ0	26J0SU41	26- - JUJJ	SUa1	DDe
tpn5	J672	26- 22U4S	2JJ6aUSS	26- - - U2J	26S04U	1U6	DDe
tpn5	J072	242 JU16	24S1JUJ2	24- SU24	24226Ua1	SU0	DDe
Kp%DTn5	- 71						dDl
Lr wo	2S671	1J6U61	1JaU26	162U14	1JaUJ4	1U04	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tuwb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149 J9Ja	&wTwFd8 :uwb r :9	S42qC. Flb

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S071	1J- U0	1J- U11	1J6UJ	1J4UJ2	1U1	DDe
Lr wo	2S 71	16- UJS	16JUa1	166UJ4	16JU2J	SUa-	DDe
LdEcmb	671				1SS		G
y wW5r l cmb	2472	422SU2	41J- UJ	41 1UJS	41 JU14	SUJS	DDe
y w5Mw5r l r	JJ72	4SUaa	2aU01	4SU2S	- 6Ua6	SU0J	DDe
y n8%eor 5mb	a471	4U44	4UJ0	4UJ4	4UJ2	1UJ2	DDe
y n8%eor 5mb	aJ71	1Ua6	2USS	1Ua	1Ua	SUaa	DDe
y n8%eor 5mb	a671	2UJ J	2UJ2	2U41	2UJ6	2US-	DDe
y n8%eor 5mb	a071	2U10	2U14	2USJ	2U12	- US-	DDe
y n8%eor 5mb	a 71	2USJ	1Ua6	2US	2US-	- US	DDe
u r no%b cmb	1JS71						dDl
u r no%b cmb	1JS72						dDl
u cdkr 8	6S72	21U1J	2SU2	1aUaS	2SU62	- U1J	DDe
NEnl DEnpm	- 172	1J4aUJS	1641Ua2	1J11U4S	1J60U61	4U2	DDe
NnTwl cmb	- a72	- J1- UJ J	- 4aSU22	- 410UaS	- 40- U2	1U4-	DDe
CEnocmb	1S- 71				1S		G
CEnocmb	1S- 72				1S6		G
l dw5ocmb	4J71				1Sa		G
l dw5ocmb	4J72				1S2		G
l r 8 5cmb	271	1US1	SU-	SUJ6	SUJS	2 U1S	DDe
l r 8 5cmb	0072	41UJa	4SUSS	64U0S	4 U06	2 UJ J	DDe
l r 8 5cmb	0 72	6USJ	aU6J	aU12	U20	2- U4	DDe
l c8dn5	2 71	21SU1	2SaUa4	21- U04	211U2a	1US1	DDe
l c8gr p	1S071	SU0J	SU6a	SU06	SU04	JUS	DDe
l c8gr p	1Sa71	SU0-	SU02	SU02	SU02	SU1	DDe
l nocmb	2- 72	2- 2UJ2	2- 0U6J	241U61	2- 0U1a	1Ua6	DDe
l Tpm5Tcmb	671	6- UJS	64UJa	6JUa0	64UJJ	2US	DDe
l Tpm5Tcmb	71	64U6S	64USa	64UaS	64UJ-	SU6-	DDe
l m8mp	- 471	72Sa- U01	72- 6- UJ0	72S- U12	7216JU1-		DDe
Ar pecmb	1Ja71				1Sa		G
Ar pecmb	1Ja72				1S0		G
AEw8cmb	2S- 71	SUJ-	SUJ4	SUJJ	SUJ4	- U60	DDe
AEw8cmb	2SJ71	SUJ4	SUJJ	SUJ	SUJ6	JUJ-	DDe
Ac5	11 71	- UJS	- UJ	- UJ	- UJJ	1UJ6	DDe
AcTw5cmb	4071	121USS	116UJ-	12SUJS	11aU44	2U12	DDe
Rpw5cmb	2- 71	2USS2	2USJ	2USS6	2USS4	1U22	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	N
v 8r 5Tl wb D8 :t&:9	y h SF1S	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9Ja	&wTwFd8 :u wb r :9	S42q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J172	4- U1	42Ua2	4- U46	4- U1	SU62	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	a71				11-		G
YTTpcmb	a72				11J		G
Zc5d	6672	24 U0S	240U6a	24aUSJ	24 U4	SU2	DDe
Zqcdn5cmb	aS71	1UJ0	1U S	1U0J	1U01	0U12	DDe
Zqcdn5cmb	a171	1U0S	1U6S	1U0J	1U6	4UJa	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r Tu wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	2072	1- 660UJ1	1- 6 2U-6	1- 0J1U42	1- 01- UJ6	SU44	DDe
q5Tb n5%	12171	SU-1	SU-1	SU-6	SU-	JUSS	DDe
qpl r 5cd	0a72	12U14	12U11	11UaS	11U2	- US4	DDe
Bwpcmb	1- a71	- 21U0	- 2SU12	- 20UaS	- 2- U2S	1U1	DDe
Bwpcmb	1- 071	- 1JU2J	- 2- U2-	- 2aU-6	- 22U2	1U1-	DDe
Br p%8cmb	71	1UJ	2USa	1U J	1U0	4U14	DDe
Bdb mTE	2S 71				1SJ		G
Bdb mTE	2S 72				1S4		G
Bpmb d5r	J171						dDl
v wob cmb	1SJ71	1UaS	SU4	1US6	1U10	2aU4S	DDe
v wob cmb	1S671	7SU26	72U21	71U0-	71U4S		DDe
v wob cmb	11171	1US1	SUJJ	1USS	SU6	0Ua2	DDe
v w8dcmb	4- 71	144SaUa-	1461 U20	14641U0	14aaaUa	SUS	DDe
v w8dcmb	4471	14 62U44	1a1- 0U41	14 a0U10	1aS1 US1	SU6J	DDe
v wpen5	1271						dDl
v wpen5	1272						dDl
v E8hpd5r	- a71						dDl
v E8hpd5r	- a72						dDl
v Epmb cmb	a272	1aU40	14UJ	1aUJ6	1aU41	- U10	DDe
v new8T	a 72	U44	JU-	U62	U-	- UJS	DDe
v nDDr p	6- 72	2- U40	2- UaJ	2- U61	2- Uaa	SU-	DDe
&%Dpnl cmb	1a671						dDl
&%Dpnl cmb	1a672						dDl
. pecmb	16471						dDl
. pecmb	16472						dDl
Hwon85cmb	16S71						dDl
Hwon85cmb	16S72						dDl
h n8b cmb	16a71				1SJ		G
h n8b cmb	16a72				1S-		G
t5ocmb	11a71				1S6		G
t5ocmb	11a72				1SS		G
tpn5	a472	21 a U1a	2146 UJ2	221J6Uaa	21J01UJ4	1U60	DDe
tpn5	a672	21424U00	21Sa0UJJ	21024U0	214S2Ua4	1Ua6	DDe
tpn5	a072	1 11U2J	2S14 US0	2S- 04U6S	2S144UJ	1U1a	DDe
Kp%DTn5	J- 71						dDl
Lr wo	2S671	a U41	aJU-	aJU-S	aJU0S	1USa	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&c8mTcn5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFc8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5cT
Lr wo	2S071	a6U0	a4U2-	a6U2J	aaU00	2U4-	DDe
Lr wo	2SJ71	a0U -	a6U2	a0UJ-	a0U6	1Ua0	DDe
LcTEcmb	671						G
y wW5r l cmb	2472	4aS2USJ	4aS6U21	4aa4U0S	4a21USS	SU6a	DDe
y w5Mw5r l r	aa72	J4- U4	J4SU4-	JaSU a	J4aU11	SU6-	DDe
y n8%eor 5mb	471	0US-	0U42	0UJ J	0U2J	2U a	DDe
y n8%eor 5mb	a71	SUJS	SUJ1	SUJ-	SUJ2	1UJ6	DDe
y n8%eor 5mb	671	1Ua1	1Ua2	1UaJ	1Ua-	2U1	DDe
y n8%eor 5mb	071	SU00	SU S	1US1	SUJ	1- U0	DDe
y n8%eor 5mb	J71	SUJ1	SUJ2	SUJ1	SUJ1	SUa6	DDe
u r no%b cmb	1aS71						dDl
u r no%b cmb	1aS72						dDl
u cdkr 8	6S72	1aU1	1aU4-	14U	1aUSa	- U0J	DDe
NEnl DEnpm	- 172	1421Ua	16S6U6	1614U6a	1a40Ua6	0USS0	DDe
NnTwl cmb	- 72	4142UJ	41a2UJ-	422SUJS	4102USS1	1USS2	DDe
CEnocmb	1S- 71				1S0		G
CEnocmb	1S- 72				1S-		G
l dw5ocmb	4a71				1S6		G
l dw5ocmb	4a72				J		G
l r 8 5cmb	J271	1USS	1Ua4	SU00	1U1S	- aUaa	DDe
l r 8 5cmb	0072	4 U40	a2U6	4SU22	40Ua	1- U4S	DDe
l r 8 5cmb	0J72	11UJ	1SU1-	U01	1SUaJ	1SU a	DDe
l c8dn5	2J71	246U40	2aSU6	24JUa-	24JU4a	SU0J	DDe
l c8gr p	1S071	SU26	SU22	SU24	SU24	JUaS	DDe
l c8gr p	1S 71	SU26	SU22	SU2a	SU24	0U-	DDe
l nocmb	2- 72	11SUS	1SaUJJ	11SUaJ	1SJU2	2U42	DDe
l Tpn5Tcmb	J671	UJ	1S1U1	1SSU12	1SSU44	SU06	DDe
l Tpn5Tcmb	JJ71	1SaU1S	1S4UJ	1S- UJ	1S4U66	SU64	DDe
l m8mp	- 471	71J2 UaS	716S6U04	710J6U10	7104SUJS		DDe
Ar pecmb	1a 71				1SJ		G
Ar pecmb	1a 72				1S-		G
AEw8cmb	2S- 71	SU2J	SU2J	SU2	SU2	0USJ	DDe
AEw8cmb	2Sa71	SU1	SU20	SUS	SU2	6U1a	DDe
Ac5	11J71	1U4a	1U44	1U	1U4-	2U	DDe
AcTw5cmb	4071	14SUSS	141U S	141UJ0	141U26	SU00	DDe
Rpw5cmb	2- J71	2U2S	2U1a	2U22	2U1	1U6	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4467S	t5l Tpmb 5r T:u wb r :9	NJ
v 8r 5Tl wb D8 :t&:9	y h SF11	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :q dOmpr o:9	2S2- 7S0712:149- J9aJ	&wTwFd8 :u wb r :9	S4- q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMU:v n5dU	v n5dCl &	R5dT
Vw5wocmb	a172	- a00	- 4la0	- 6U20	- ala4	2U46	DDe
YTTr pecmb	10271						dDl
YTTr pecmb	10272						dDl
YTTr pecmb	10671						dDl
YTTr pecmb	10672						dDl
YTTpcmb	J 71				11-		G
YTTpcmb	J 72				111		G
Zc5d	6672	14aUS6	14 U1S	14 US2	140U0-	1la6	DDe
Zcpdn5cmb	S71	- U0-	- UJS	- UJ4	- U0	1laS	DDe
Zcpdn5cmb	171	- U6-	- Ua	- UJS	- UJS	4U2a	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	096hF42	096SF- 6	60- SFS8	0286F62	6F61	l l b
c n&Amon%	12171	SF4S	SF4-	SF42	SF42	- F86	l l b
c rsenAq	0972	11F2h	12F06	1SF0-	11F6S	hFS4	l l b
BarAum	1- 971	169F8S	164F11	16hF44	166F49	1F64	l l b
BarAum	1- 071	160F- 4	164F0-	10SFS-	160F- 0	1F98	l l b
Ber%lAum	h71	1FS0	1F19	1FSh	1F1S	- F48	l l b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				112		G
BromAne	8171						ql s
RaOmAum	1S871	SFh-	SF90	SF6-	SF01	20F28	l l b
RaOmAum	1S671	72FS8	7- Fh2	7- F2-	7- FS8		l l b
RaOmAum	11171	SF90	SF9-	SF96	SF99	- F6h	l l b
RalqAum	4- 71	4821FS2	4861F44	48h0F21	489hF8h	SF08	l l b
RalqAum	4471	4hhSF2-	9129F6h	9S26F1S	9S40F- 4	1F- h	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	10F22	10F16	19F2-	16F94	6F89	l l b
Robal&	9h72	6F68	6F6h	9Fh-	6F4-	6F06	l l b
Rol l er	6- 72	1- Fh6	14F4-	1- FS6	1- F82	9FS9	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				11S		G
DnOAum	11971				1S8		G
DnOAum	11972				1S6		G
Don	9472	14S92FhS	14S1- F- 2	12912F1S	1- 926F11	6F4h	l l b
Don	9672	144- SF20	140S2F12	1- - 99F01	14162F0S	9FS-	l l b
Don	9072	1- 8S4F46	1- 818F6h	12- 04F81	1- - - 2F69	6F22	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	49F16	46F90	49F8S	49F84	1F94	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4- F89	44F5-	44F2S	44F52	SF4S	l l b
LeaO	2S871	44F49	49F4h	44Fh0	44Fh0	1F16	l l b
LA&EAum	671				h6		G
MagnesAum	2472	1h12F4h	1h26F86	1014F6h	1891F- 9	6F4S	l l b
Manganese	9972	401FhS	40- F98	421F88	499F08	6F44	l l b
Mol%bOenum	h471	- F89	4F12	4F22	4F56	4F0-	l l b
Mol%bOenum	h971	1F59	1F54	1F10	1F58	6F89	l l b
Mol%bOenum	h671	1F- -	1F44	1F42	1F4S	4F41	l l b
Mol%bOenum	h071	1F19	1F1-	1F50	1F11	- F62	l l b
Mol%bOenum	h871	1F29	1F12	1F26	1F21	6F42	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	12F- 6	12F44	1SF89	11F88	0F94	l l b
PEosI Eorus	- 172	980F- 6	984F91	486Fh8	992Fh9	1SF- 4	l l b
Po&assAum	- h72	189- F02	1848F04	16S4F10	1068F88	8F50	l l b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S8		G
pqanOAum	4971				1S9		G
pqanOAum	4972				1S4		G
pelenAum	8271	SFh4	SF- 1	SF92	SF9h	9- F68	l l b
pelenAum	0072	- 0F40	- 9F66	- hF2S	- 0F44	4F02	l l b
pelenAum	0872	9F8-	6Fhh	4F- S	9F01	2- F62	l l b
pAAqon	2871	11hF16	11hF49	12SF14	11hF98	SF42	l l b
pAver	1S071	SF1h	SF10	SF21	SF1h	1SF- 2	l l b
pAver	1Sh71	SF1h	SF2S	SF22	SF2S	6F14	l l b
poOAum	2- 72	8hF2h	h9F- 2	06F00	80F1-	1SF86	l l b
p&ona&um	8671	4SF02	42F80	42F42	42F5S	2F0S	l l b
p&ona&um	8871	41F4-	42F9-	42F64	42F2S	1F98	l l b
pulfur	- 471	72964F6-	72401Fh2	72- 09F6h	7240SF09		l l b
i erbAum	19h71				1S6		G
i erbAum	19h72				1Sh		G
i EallAum	2S- 71	SF1h	SF22	SF21	SF21	6F2h	l l b
i EallAum	2S971	SF2S	SF2S	SF21	SF21	2F48	l l b
i An	11871	2F9S	2F46	2F9-	2F9S	1F4h	l l b
i A&anAum	4071	h8F26	1S1F2S	1S- F- 4	1SSFh-	2F9-	l l b
UranAum	2- 871	1F42	1F40	1F4S	1F4-	2F94	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 44671S	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 12	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:41:96	t a&a. Ae Name :	S44c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	26F6-	20F- 1	24F21	26FS9	6F29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				112		G
Y&&Aum	8h72				116		G
ZAnq	6672	60F49	0SF96	62F48	66FB-	6F1S	l l b
ZAqonAum	hS71	1F0-	1F08	1FB6	1F0h	- F62	l l b
ZAqonAum	h171	1F66	1FB1	1F66	1F01	4Fn-	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	19194F96	1426hF10	141h0F00	1494SF9S	- F60	I I b
cn&Amon%	12171	SF46	SF91	SF40	SF48	9F0h	I I b
crsenAq	0972	11F48	11F12	1SF86	11F19	2F0h	I I b
BarAum	1- 971	- S- F4S	2h0F80	2h8Fh1	- SSFS6	SFh8	I I b
BarAum	1- 071	- S2F62	- S1F11	- S4F00	- S2F8-	SF61	I I b
Ber%lAum	h71	2F1-	2F12	2F1-	2F1-	SF26	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F48	1F92	1Fh4	1F69	19F1h	I I b
RaOmAum	1S671	SF6S	7SFS9	7SF91	SFS1	922- FSS	I I b
RaOmAum	11171	1F- 9	1F41	1F- -	1F- 6	- F28	I I b
RalqAum	4- 71	88h6F68	88- 0F61	h1- 1F4h	8h99F26	1F04	I I b
RalqAum	4471	h22- F4S	h14hF21	h694F4S	h- 42F- 4	2Fh2	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	18F2-	10Fh2	10FS2	10F02	- F96	I I b
Robal&	9h72	12F6S	11F84	11F02	12FS6	- Fh4	I I b
Rol I er	6- 72	28F98	20F9-	20F- 8	20F8-	2F- 4	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S9		G
DnOAum	11971				1S6		G
DnOAum	11972				1S2		G
Don	9472	- 4h96F19	- - 0h2F64	- - 119Fh1	- - h94FhS	2F04	I I b
Don	9672	- 9129FhS	- - - SSF18	- 282SF1-	- - 048F04	- F6S	I I b
Don	9072	- 2h89FhS	- 1109F- 4	- 11ShF60	- 1096Fh0	- F- 9	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	6- FSS	61F6h	64F90	6- FSh	2F2h	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	9hF80	98F0h	61F-9	6SFSS	2F14	l l b
LeaO	2S871	61Fh6	6SF6S	62F00	61F08	1F00	l l b
LA&EAum	671				hh		G
MagnesAum	2472	496SF86	4420F9S	44S0FS1	4469F12	1F80	l l b
Manganese	9972	h8hFS1	h9SFh9	h-4Fhh	h98F-1	2FhS	l l b
Mol%bOenum	h471	0F-6	0F-6	0F2h	0F-4	SF9S	l l b
Mol%bOenum	h971	1F8h	2FSS	1Fh1	1Fh4	-FSS	l l b
Mol%bOenum	h671	2F98	2F96	2F40	2F94	2F9S	l l b
Mol%bOenum	h071	1F89	2F12	2F14	2FS4	0Fh0	l l b
Mol%bOenum	h871	1Fh-	2FSS	2FS9	1Fhh	-FS9	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	-6F01	-4F14	- -F0S	-4F89	4F60	l l b
PEosI Eorus	-172	1696F8-	1496F-S	1900F06	196-F6-	6F46	l l b
Po&assAum	-h72	6128F90	909SF06	90-0F68	9802F-4	-F08	l l b
5 EoOAum	1S-71				1S0		G
5 EoOAum	1S-72				1S4		G
pqanOAum	4971				1S0		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F-4	1F4h	1F0S	1F91	12FS8	l l b
pelenAum	0072	90F18	91F1-	6SF86	96F-h	8F02	l l b
pelenAum	0872	1-F09	1SF-9	hF86	11F-2	18F01	l l b
pAAqon	2871	180F60	186F94	1h4Fh6	18hF02	2F41	l l b
pAver	1S071	SF22	SF24	SF26	SF24	1SF2-	l l b
pAver	1Sh71	SF2-	SF20	SF20	SF26	8FS1	l l b
poOAum	2-72	11SF6-	1S4F-9	1S9F0-	1S6FhS	-FSh	l l b
p&ona&um	8671	91F2-	48F6h	9SF00	9SF2-	2F6h	l l b
p&ona&um	8871	9SF4h	48F6h	9SF01	4hFh0	2F21	l l b
pulfur	-471	72S81F29	72-40F4S	72S1-F86	72140F91		l l b
i erbAum	19h71				1S8		G
i erbAum	19h72				1S-		G
i EallAum	2S-71	SF42	SF-8	SF48	SF42	12FS1	l l b
i EallAum	2S971	SF4-	SF41	SF-h	SF41	4F42	l l b
i An	11871	2FS4	2FS1	2F12	2FS9	2F68	l l b
i A&anAum	4071	-16F0S	-10F-	-18F44	-10F4h	SF28	l l b
UranAum	2-871	2F46	2F46	2F9S	2F40	SFh2	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446711	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 1-	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:44:90	t a&a. Ae Name :	S49c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	42F29	4SF42	- hF02	4SF8S	- F21	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				110		G
Y&&Aum	8h72				110		G
ZAnq	6672	216F28	2S0FS-	2S4F6-	2ShF- 2	2Fh4	l l b
ZAqonAum	hS71	- F2-	- F26	- F- 0	- F2h	2F28	l l b
ZAqonAum	h171	- F2h	- FS-	- F- 1	- F21	4F86	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	18- 11Fh8	1844- F4h	18281F21	18- 49F96	SF40	I I b
c n&Amon%	12171	SF- 1	SF- 2	SF- 9	SF- -	6F12	I I b
c rsenAq	0972	12FS6	11F40	11F04	11F06	2F4h	I I b
BarAum	1- 971	- 04FS1	- 61F- -	- 68F14	- 60FB-	1F0-	I I b
BarAum	1- 071	- 6hF22	- 64F00	- 68Fh8	- 60F66	SF68	I I b
Ber%lAum	h71	2F09	2F01	2F01	2F02	1FSS	I I b
BAsmu&E	2Sh71				1S6		G
BAsmu&E	2Sh72				1S9		G
BromAne	8171						ql s
RaOmAum	1S871	1F2S	1F- S	1F68	1F- h	18F2-	I I b
RaOmAum	1S671	7SFS4	SF4h	71FS4	7SF1h		I I b
RaOmAum	11171	1F21	1F19	1F1h	1F18	2F- 9	I I b
RalqAum	4- 71	11SS6FS-	1S000F28	1S08SF- S	1S894F9-	1F21	I I b
RalqAum	4471	11498F6-	11- 1SF66	11- 49F11	11- 01F40	SF68	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	26F19	26F21	26F10	26F18	SF11	I I b
Robal&	9h72	19FS2	14FB8	19F14	19FS1	SFB4	I I b
RoI I er	6- 72	28FBh	28Fh2	2hF46	2hFSh	1F1S	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S0		G
DnOAum	11971				1S8		G
DnOAum	11972				1S2		G
Don	9472	42h8hF48	4- 9- 4F4-	4- 124F06	4- 216F22	SF66	I I b
Don	9672	42h62F4-	42288F14	42982FS8	4261SFB8	SF0h	I I b
Don	9072	4- 0h4FB2	44122F0-	4- 400Fh6	4- 0h8F9S	SF04	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	90Fh8	98F14	90F6S	90Fh1	SF40	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	96F28	96F9h	99F2S	96FS-	1F- S	I I b
LeaO	2S871	98F18	90F04	90F16	90F6h	SF8h	I I b
LA&EAum	671				h8		G
MagnesAum	2472	9- 14F88	929hF44	9290F82	9200F- 8	SF62	I I b
Manganese	9972	1260F26	1262F80	120hF16	126hF06	SF66	I I b
Mol%bOenum	h471	9F00	9F0h	9F90	9F01	2FSh	I I b
Mol%bOenum	h971	2F- 6	2F2S	2F22	2F26	- F81	I I b
Mol%bOenum	h671	2F64	2F92	2F94	2F90	2F4h	I I b
Mol%bOenum	h071	2F1h	2F- S	2F22	2F24	2F46	I I b
Mol%bOenum	h871	2F- -	2F4-	2F22	2F- -	4F94	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- SFh4	- SFS6	2hF88	- SF- S	1F88	I I b
PEosI Eorus	- 172	1441FS6	1929F44	1- - 8F88	14- 9F1-	6F91	I I b
Po&assAum	- h72	626- F2S	6102F90	61S1FS4	6108Fh-	1F- 2	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S8		G
pqanOAum	4972				1S1		G
pelenAum	8271	1F06	1F- -	1F18	1F4-	21F2h	I I b
pelenAum	0072	0- FSh	06F- 6	61F94	0SF- -	11FS0	I I b
pelenAum	0872	19Fh9	14F41	16F0-	19F0S	0F9-	I I b
pAAqon	2871	240F99	248FS8	244F4-	246F6h	SF8S	I I b
pAver	1S071	SF24	SF22	SF2S	SF22	8FS1	I I b
pAver	1Sh71	SF28	SF2S	SF26	SF29	10F28	I I b
poOAum	2- 72	122F6-	12- F28	12SF62	122F18	1F1-	I I b
p&ona&um	8671	61F88	61F28	90F62	6SF26	- F8-	I I b
p&ona&um	8871	6SF06	6SF- h	98F- -	9hF8-	2F1h	I I b
pulfur	- 471	72618F22	72862F29	7204- FS1	72041F16		I I b
i erbAum	19h71				11S		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF9S	SF99	SF4h	SF91	9F90	I I b
i EallAum	2S971	SF40	SF40	SF91	SF48	4F89	I I b
i An	11871	- F- 4	- F12	- F41	- F2h	4F99	I I b
i A&anAum	4071	200F- 4	206F0h	20hFh6	208FS-	SF61	I I b
UranAum	2- 871	2F84	2Fh0	- FS1	2Fh4	2Fh8	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 446712	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 14	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:40:99	t a&a. Ae Name :	S46c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	9SF2S	4hF08	4hF9h	4hF86	SF62	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				121		G
Y&&Aum	8h72				12S		G
ZAnq	6672	2S8Fh6	211FSh	211F-4	21SF40	SF62	l l b
ZAqonAum	hS71	2F2h	2F20	2F21	2F26	1F86	l l b
ZAqonAum	h171	2F- -	2F24	2F14	2F24	4F2-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	2S909F16	1h620F90	2SS98F11	2SS86Fh9	2F- 6	l l b
cn&Amon%	12171	2F29	2F- 1	2F1h	2F29	2F98	l l b
crsenAq	0972	46FS6	46FSS	44F92	49F9-	1Fh2	l l b
BarAum	1- 971	6- 4F2-	616FhS	614F61	621Fh1	1F02	l l b
BarAum	1- 071	6- 4F- 6	622F81	62- F96	626Fh1	1FS-	l l b
Ber%lAum	h71	- F21	- FSS	- F21	- F14	- F09	l l b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	- F66	- F44	- F92	- F94	- F10	l l b
RaOmAum	1S671	- F81	1F80	71FS6	1F94	19hF10	l l b
RaOmAum	11171	- F- S	- F91	- F- -	- F- 8	- F- 4	l l b
RalqAum	4- 71	41S48F- 1	41912F88	4S44- F- 4	41SS1F91	1F- 1	l l b
RalqAum	4471	42996FhS	42h84F44	418h6F61	4240hF- 2	1F2h	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	- - F82	- 2Fhh	- - FSh	- - F- S	1F- 6	l l b
Robal&	9h72	12F6-	11FhS	12F- h	12F- 1	- FS-	l l b
Rol l er	6- 72	h9F99	hSFh0	h4FSS	h- F9S	2F4h	l l b
t %sl rosAum	19671						ql s
t %sl rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S8		G
y olmAum	16972				1S6		G
DnOAum	11971				1S0		G
DnOAum	11972				1S-		G
Don	9472	- 6206F96	- 499- F09	- 99- - F91	- 9494F6S	2F44	l l b
Don	9672	- 6299F62	- - 04SF8-	- 6- 99FS4	- 949SF9S	4F18	l l b
Don	9072	- - 648F12	- 2406FS0	- - - 29F04	- - 14hFh0	1F8-	l l b
Kr%l &on	8- 71						ql s
LeaO	2S671	9h1F8-	9h- F64	909Fh0	980F19	1F66	l l b

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On:7/14/2023 8:48:56 AM
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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	969Fh1	968F6h	999F6-	96- F41	1F22	l l b
LeaO	2S871	969F1h	90- F80	99hF40	966F18	1F28	l l b
LA&EAum	671				h6		G
MagnesAum	2472	0886F28	0910F69	0696F91	0686F81	2F42	l l b
Manganese	9972	1222F49	110- F98	11h4F84	11h6Fh6	2FS9	l l b
Mol%bOenum	h471	hF2S	hF42	hF= 0	hF= -	1F24	l l b
Mol%bOenum	h971	- F28	- F1-	- F= 1	- F24	2Fh6	l l b
Mol%bOenum	h671	- F80	- F02	- F82	- F8S	2FS-	l l b
Mol%bOenum	h071	- F29	- FS4	- FS8	- F12	- F90	l l b
Mol%bOenum	h871	- F29	- F2-	- F= 4	- F20	1F8h	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	20F02	29F0h	26F90	26F6h	- F69	l l b
PEosI Eorus	- 172	208- F91	2011F6-	20h4FS4	206- FS6	1F62	l l b
Po&assAum	- h72	96hhF6S	9412FS1	966hFS8	99h- F96	2F82	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S9		G
pqanOAum	4971				1S6		G
pqanOAum	4972				1SS		G
pelenAum	8271	1F96	1F44	1F84	1F62	12F08	l l b
pelenAum	0072	- hF8-	- 0F92	- 8F19	- 8F9S	- F11	l l b
pelenAum	0872	8F9h	8F41	8F08	8F9h	2F11	l l b
pAAqon	2871	2- 2F= 0	2- SF04	226F= 6	22hF82	1F= 9	l l b
pAver	1S071	1F12	1F11	1F1S	1F11	SFh4	l l b
pAver	1Sh71	1F11	1F18	1F1S	1F1-	- Fh2	l l b
poOAum	2- 72	990F= S	942F46	998F18	992F69	1F6S	l l b
p&ona&um	8671	- S9F16	- SSF1h	- S1FS9	- S2F1-	SF88	l l b
p&ona&um	8871	- S9F26	- S6F84	- 11F90	- S0F8h	1FS0	l l b
pulfur	- 471	7606F= 0	7- 46F24	76- 0F= 4	799- F= 2		l l b
i erbAum	19h71				1Sh		G
i erbAum	19h72				1S0		G
i EallAum	2S- 71	SF= 0	SF= 9	SF= -	SF= 9	6F0-	l l b
i EallAum	2S971	SF= -	SF= -	SF= 1	SF= 2	2F00	l l b
i An	11871	12F6-	12F61	1- FS2	12F09	1F81	l l b
i A&anAum	4071	416FS8	42- FS8	4ShFS1	416FS6	1F6h	l l b
UranAum	2- 871	2F= 0	2F94	2F40	2F46	- F92	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44671-	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 20	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:9S:94	t a&a. Ae Name :	S40c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	6- F29	6SF96	61F2S	61F60	2F28	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				114		G
Y&&Aum	8h72				11-		G
ZAnq	6672	1SS1F08	h6SF69	h6hFS4	h00F16	2F22	l l b
ZAqonAum	hS71	- F06	- F98	- F04	- F6h	2F60	l l b
ZAqonAum	h171	- F84	- F89	- F9S	- F0-	9F- 8	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5Tl sb DPP t&:	y h SF2N	&dPmTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdPP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	1JS49U26	1J1S1U24	1J2SJUN-	1J11NU00	SU44	DDe
q5Tb n5%	12171	SUJ1	SUNN	SUNS	SUN0	6UJN	DDe
qpwr 5cd	0972	46U62	49UNS	46U10	46U2S	SUNN	DDe
Bspcmb	1- 971	4JSU1S	4J1UJN	40JU64	4N0U24	1UJ6	DDe
Bspcmb	1- 071	4J- U60	4N0U29	406U0S	4N9UN0	1U06	DDe
Br p%PPmb	J71	2U94	2U41	2U4-	2U46	2U0S	DDe
Bcvb mTE	2SJ71				1S6		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U11	1UJS	1U92	1UN9	16U2S	DDe
v sob cmb	1S671	71U14	SUJN	7- US6	71U20		DDe
v sob cmb	11171	1UJ4	1UN0	1UN4	1UNN	2U6-	DDe
v sPdcmb	4- 71	269NSUN1	26S69U1N	26902USN	264S6US2	1U12	DDe
v sPdcmb	4471	20069U2S	26N00U2N	20SN6U96	2024- US1	1U0S	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- 971						dDw
v EPmpc5r	- 972						dDw
v Epmb cmb	9272	20U6-	20UJS	2NU26	20UJ-	1U1-	DDe
v nesPT	9J72	19UJ6	19U99	19U66	19U92	SUJJ	DDe
v nDDr p	6- 72	0SU0J	0SU96	01U9S	0SUJ9	SU6J	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1S0		G
h nPb cmb	16972				1S9		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1S2		G
tpn5	9472	41S16U22	4SJ60UJ6	42101UN1	41- N9U1-	1U69	DDe
tpn5	9672	4S2J9U9S	4S222UJ4	4144NU9S	4S699U49	1U6J	DDe
tpn5	9072	4S092US1	- N- S- U96	- JS- NUJ4	- J- 64U64	- U1J	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	2S2U0-	1J4U22	1J4U4-	1J0U1-	2U46	DDe

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5Tl sb DP t&:	y h SF2N	&dPmTm5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	1J4USS	1N6U94	1JSU2-	1JSU29	1UJ6	DDe
Lr so	2SN71	2SJU9-	1JJU69	2S- U4J	2S4U22	2U44	DDe
LdEcmb	671				JN		G
y sM5r wcmb	2472	02J0UJ4	0- 10UJ	0- 1NU26	0- 11U2S	SU16	DDe
y s5Ms5r wr	9972	114SUJ-	11- 0U2J	119JU6S	1149UJ4	1US4	DDe
y nP%eor 5mb	J471	NUSS	NU12	0U01	0UJ4	2U64	DDe
y nP%eor 5mb	J971	- U11	- US-	2UJ6	- US-	2U42	DDe
y nP%eor 5mb	J671	- U4N	- U9N	- U9-	- U9-	1UJ4	DDe
y nP%eor 5mb	J071	2UN6	2UJ0	2UN9	2UNU	2U42	DDe
y nP%eor 5mb	JN71	2UNU	- US0	2U0N	2UJ1	4UJ0	DDe
u r no%b cmb	19S71						dDw
u r no%b cmb	19S72						dDw
u cdkr P	6S72	- 6U10	- 6U64	- 0U2N	- 6U0S	1U92	DDe
8 EnwDEnpmw	- 172	101- U20	1NJ4US2	10N4U20	10J0UJ	9US0	DDe
8 nTswwcmb	- J72	9NS6UN2	9J4NUN	9J- 0U04	9NJ0U64	1UJ4	DDe
CEnocmb	1S- 71				1S9		G
CEnocmb	1S- 72				1S-		G
l ds5ocmb	4971				1S0		G
l ds5ocmb	4972				1S1		G
l r P 5cmb	N271	2USN	1UJ6	1UJ4	1U9J	26U9N	DDe
l r P 5cmb	0072	- 0UJ6	9SU2J	44UJ1	44UJJ	1- UJ-	DDe
l r P 5cmb	0N72	1SUJN	NU69	1SUS1	JUNN	11UN9	DDe
l dcdn5	2N71	2- 9US-	2- SUJ-	2- JU9S	2- 4UJ9	1UJ9	DDe
l dgr p	1S071	SU66	SU01	SU02	SU0S	9US-	DDe
l dgr p	1SJ71	SU02	SU69	SU09	SU01	0UJ1	DDe
l nocmb	2- 72	2J- UN9	- S0UNS	- S9U10	- S2U20	2U49	DDe
l Tpm5Tcmb	N671	2S1U24	2S9U9N	1JJUJN	2S2U20	1U49	DDe
l Tpm5Tcmb	NN71	21SUJS	212U60	2SJUS1	21SUN6	SUN0	DDe
l mPmp	- 471	71964UJ0	71N1SUN6	714- 2US9	716S2U42		DDe
Ar pecmb	19J71				1SJ		G
Ar pecmb	19J72				1S9		G
AEs Pbmb	2S- 71	SU4N	SU4S	SU4S	SU4-	11UJ6	DDe
AEs Pbmb	2S971	SU44	SU41	SU4-	SU4-	- U2S	DDe
Ad5	11N71	NU2-	NU21	NU24	NU2-	SU16	DDe
Ad5 5cmb	4071	1- 9U92	12JU69	1- 4U60	1- - U2N	2UJN	DDe
Rps5cmb	2- N71	2U2S	2USJ	2U21	2U10	- U1S	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse I sb DPP t&:	3 - 446714	t5wTpmb 5r Tu sb r :	8 N
v Pr 5TI sb DPP t&:	y h SF2N	&dPmTcn5 FsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:9- :4J	&sTsFdP u sb r :	S4NqC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	09U2J	00U4-	09U1J	09UJ0	1U66	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11-		G
YTTpomb	NJ72				114		G
Zc5d	6672	- 4NU1S	- 44U24	- 99USJ	- 4JU14	1U90	DDe
Zqpdn5omb	JS71	- USS	- U1S	2UJ1	- USS	- USN	DDe
Zqpdn5omb	J171	2UJ9	- U19	- U16	- USJ	- UNN	DDe

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAum	2072	10SSJUS5	1042 US4	10222U06	1021JU6-	1U21	l l b
cn&mon%	12171	SU42	SUJ	SU5	SU4S	U0J	l l b
crwenAq	0 72	1 U5	1 US	1 UJJ	1 U2	2US1	l l b
BsrAum	1- 71	- S U0J	- 11U21	- S- U20	- S6U0	1U2	l l b
BsrAum	1- 071	- S5UJS	- 12U52	- S2U	- SJU42	1U0-	l l b
Ber%RAum	571	2U11	2U11	2US1	2USJ	2U0J	l l b
BAumu&E	2S571				1S0		G
BAumu&E	2S572				1S4		G
BromAne	J171						ql w
v sOmAum	1SJ71	SU01	SU54	SU55	SUJJ	10U25	l l b
v sOmAum	1S671	72U25	2U0S	72U1	7SU6-		l l b
v sOmAum	11171	SU0	SUJ5	SUJS	SUJ1	5US2	l l b
v sRqAum	4- 71	121- 6U5S	12- 6SU1J	12SJ5U0-	1215 U6S	1U1J	l l b
v sRqAum	4471	1255- U51	12021U2-	12651U4	12JS2U2-	1UJS	l l b
v srbon	1271						ql w
v srbon	1272						ql w
v ERrAne	- 71						ql w
v ERrAne	- 72						ql w
v EromAum	272	1JU5-	15UJ-	15U64	15U40	2U4-	l l b
v obsR&	572	12U65	12UJ-	12UJ0	12U05	SU0-	l l b
v ol l er	6- 72	2JU5	- SUJ1	25U00	25U6J	2UJS	l l b
t %w l rowAum	1 671						ql w
t %w l rowAum	1 672						ql w
. rbAum	16471						ql w
. rbAum	16472						ql w
HsOoRAum	16S71						ql w
HsOoRAum	16S72						ql w
hoRmAum	16 71				1S5		G
hoRmAum	16 72				1S4		G
DnOAum	11 71				1SJ		G
DnOAum	11 72				1SS		G
Don	472	- 14- - U6	- - 1SJU4	- 2 0- U42	- 2- 01UJ4	2U64	l l b
Don	672	- 1JJ5US6	- 26- 1U0S	- 2S6JUSJ	- 2156U2J	1U2S	l l b
Don	072	- S- 26U-	- S- SJU22	25512U65	- S1J2U4J	SU00	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	05U04	J- U41	JSU40	J1U21	2UJ5	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I ers&or:9	aswl sP
Lsb:psmI Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psmI Re:D :9	y h SF25	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S071	06U14	JSU1S	00U0	0JUSS	2U	I I b
LesO	2SJ71	0JU42	J1USS	0JU05	05U41	1U06	I I b
LA&EAum	671				5J		G
y sMnewAum	2472	220US4	4JSU-	4JJUS6	- 5JU4J	2U0	I I b
y snMsnewe	72	656U5J	011U-	0S US	0S4U2	1US-	I I b
y oP%bOenum	5471	U1J	U2	U5	US	1U5J	I I b
y oP%bOenum	5 71	1U10	1U2J	1U15	1U21	4U60	I I b
y oP%bOenum	5671	1U6	1U6-	1U2	1U6S	4U16	I I b
y oP%bOenum	5071	1U20	1U1	1U24	1U22	US0	I I b
y oP%bOenum	5J71	1U2-	1U21	1U2J	1U24	- US6	I I b
NeoO%mAum	1 S71						ql w
NeoO%mAum	1 S72						ql w
NAqkeP	6S72	26U50	2JUSJ	20U40	20US	2US1	I I b
8EowI Eoruw	- 172	5 1UJ4	J15USS	J0- U21	JJ1UJ	0UJ	I I b
8o&swwAum	- 572	4JJ- U02	45J UJ-	4562UJ1	454- U0J	1USJ	I I b
CEoOAum	1S- 71				1S6		G
CEoOAum	1S- 72				1S-		G
pqsnOAum	4 71				1S0		G
pqsnOAum	4 72				5J		G
pe&enAum	J271	SU55	SU	1US-	SUJ6	- 1U21	I I b
pe&enAum	0072	4 UJ0	1U1S	64U4J	- UJ2	10UJ-	I I b
pe&enAum	0J72	1SUJ2	1SU2S	11U22	1SU0	4U0	I I b
pAqon	2J71	10 U6S	1J- U5	1J2UJ-	1JSU60	2U44	I I b
pAger	1S071	SU	SU4	SU0	SU	2UJS	I I b
pAger	1S571	SU0	SUJ	SU4	SU6	- U66	I I b
poOAum	2- 72	54U55	1SSUS	1SSUJ	5JU6-	- U22	I I b
p&on&Aum	J671	52UJS	5- U6-	51U64	52U65	1USJ	I I b
p&on&Aum	JJ71	5 U46	54U4-	5JU66	56U1J	2U25	I I b
pu&ur	- 471	72- 40UJ2	721S4U50	72251UJ4	7224JU11		I I b
i erbAum	1 571				11S		G
i erbAum	1 572				1S-		G
i EsPAum	2S- 71	SUJ0	SUJ5	SU46	SU41	11U0-	I I b
i EsPAum	2S 71	SU4S	SU4S	SUJ0	SUJ5	UJ6	I I b
i An	11J71	2U1J	2U2	2US5	2U10	- U00	I I b
i A&snAum	4071	1 1U64	1 - U2J	1 4UJ2	1 - U1	SU54	I I b
RrsnAum	2- J71	1UJS	1UJ1	1U2-	1U2J	- UJS	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 44671	Dw&umne&Nsme:9	8 J
v Ren&psml Re:D :9	y h SF25	t Ro&on:Fsq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- 7S0712:149 694J	t s&sFAe:Nsme:9	S45c C. FU0

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
VsnsOAum	172	U4	JUJ0	0U02	0UJ	2U54	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	J571				116		G
Y&&Aum	J572				111		G
ZAnq	6672	1 4U5-	1 5U1	1 0UJ5	1 0U44	1U4J	l l b
ZAqonAum	5S71	2U44	2U45	2US	2U4J	1U10	l l b
ZAqonAum	5171	2U0	2U4	2UJ1	2U40	U51	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
qPmb oCmb	20 2	9S92N.Sy	91491.07	91y12.01	912y0.91	1.70	DDe
qCTb 5Ch	121 1	4y7.S6	9S0.21	4y6.yN	4yy.SN	1.46	DDe
qpwr Ccl	09 2	922.7y	920.27	929.y1	929.10	S.4N	DDe
Bspcmb	179 1	246S.Ny	2406.yS	29S2.99	24NS.11	S.N9	DDe
Bspcmb	170 1	2429.y4	291N.16	2926.29	24yS.12	2.24	DDe
Br phPmb	y 1	4N0.S9	409.21	4y7.y9	4N9.4S	1.y9	DDe
Bcwb mT%	2Sy 1				y6		E
Bcwb mT%	2Sy 2				y7		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	9S1.24	4y9.60	4y0.7S	4yN.S0	S.9N	DDe
3 sob cmb	1S6 1	4N6.92	9S0.yN	4y1.9S	4y9.77	2.20	DDe
3 sob cmb	111 1	4y9.7y	9S1.04	9S1.1N	4yy.44	S.0S	DDe
3 sPlcmb	47 1	27NS71.46	27yS1y.y6	246y79.4S	24172N.y4	2.S2	DDe
3 sPlcmb	44 1	279909.2S	2709S7.N1	27y201.42	27049S.14	S.0N	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %P5pCr	79 1						dDw
3 %P5pCr	79 2						dDw
3 %p5b cmb	92 2	4N4.S2	4N0.69	4N6.S2	4N9.yS	S.70	DDe
3 5esPT	9y 2	4N0.47	4N4.04	4y1.S9	4N0.04	S.69	DDe
3 5DDr p	67 2	9791.06	91N7.40	9720.46	92N0.96	1.02	DDe
&hwDp5wcmb	196 1						dDw
&hwDp5wcmb	196 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PCmb	16S 1						dDw
Hso5PCmb	16S 2						dDw
K5Pb cmb	169 1				1S1		E
K5Pb cmb	169 2				1SS		E
tCocmb	119 1				y6		E
tCocmb	119 2				y2		E
tp5C	94 2	17S6S0.61	1294S2.91	126721.SN	120447.07	2.1N	DDe
tp5C	96 2	1266yS.4y	126SSN.S4	1266N0.22	126461.y1	S.71	DDe
tp5C	90 2	12y970.S9	126941.42	12091S.yN	120N67.19	1.2S	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	27y1.27	2979.67	2927.64	24N7.9S	7.27	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sT:i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sp sb r Tp	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0 1	27NN.0S	2941.17	2919.0y	24N1.N0	7.2y	DDe
Lr so	2SN 1	24S1.00	294S.61	291y.0y	24N0.7y	7.S1	DDe
LdP%mb	6 1				N6		E
MsgOr wmb	24 2	297NN2.y7	296269.79	29yNy4.22	2966NS.N7	1.1N	DDe
MsOgsOr wr	99 2	92Sy.90	9171.N1	91S7.1y	914N.1y	1.S0	DDe
M5Pheor Omb	y4 1	4y9N.20	4y07.NS	4y17.4y	4y4N.92	S.67	DDe
M5Pheor Omb	y9 1	4y2y.74	4y61.7N	4ySy.12	4y77.2N	S.97	DDe
M5Pheor Omb	y6 1	4y07.17	4y24.46	4NNS.N1	4y26.17	S.y4	DDe
M5Pheor Omb	y0 1	4N97.y0	4y29.S0	4NyN.4y	4Ny2.91	S.07	DDe
M5Pheor Omb	yN 1	4N4y.N4	9S27.40	9S66.24	4y0y.N9	2.7S	DDe
u r 5ohb omb	19S 1						dDw
u r 5ohb omb	19S 2						dDw
u dfr P	6S 2	9S4.22	4y6.NS	9S4.90	9S1.N0	S.N0	DDe
8 %5wD%5pmw	71 2	y622.07	1S2Ny.96	y02y.24	yNNS.91	7.67	DDe
8 5Tswwmb	7y 2	126y16.16	126710.9y	124722.4y	129N92.SN	1.SN	DDe
R%5omb	1S7 1				y2		E
R%5omb	1S7 2				y1		E
I dsOomb	49 1				y9		E
I dsOomb	49 2				y1		E
I rPOmb	N2 1	40y.y0	4N6.y4	400.76	4N1.42	1.S7	DDe
I rPOmb	00 2	9S6.N6	4y6.2y	94S.9N	914.9N	4.4y	DDe
I rPOmb	0N 2	910.0N	929.66	974.24	929.Ny	1.90	DDe
I dd5C	2N 1	9S9.71	9Sy.77	920.y0	914.2S	2.79	DDe
I dPr p	1S0 1	4N0.71	4N9.1S	4N2.1N	4N4.N6	S.97	DDe
I dPr p	1Sy 1	4y2.4N	4N2.N9	4yS.1S	4NN.4N	1.S7	DDe
I 5omb	27 2	29y414.N9	29N0y4.47	29y66N.1N	29y2y2.4y	S.10	DDe
I Tp5CTomb	N6 1	129S0.14	1296N.0N	121N2.19	1241y.76	1.60	DDe
I Tp5CTomb	NN 1	122N1.64	126Sy.N9	122S6.9S	12766.SS	1.07	DDe
I mPVp	74 1	y779.04	N009.29	y922.6N	y211.22	4.22	DDe
Ar pemb	19y 1				1S1		E
Ar pemb	19y 2				yy		E
A%sPmb	2S7 1	4Ny.N2	9S7.y6	911.yy	9S1.y2	2.24	DDe
A%sPmb	2S9 1	4y0.S6	9S0.4N	9S9.10	9S7.24	1.Sy	DDe
AdC	11N 1	4y2.4S	9S6.7S	4Ny.N6	4y6.1N	1.0N	DDe
AdsOomb	40 1	4y47.69	4yN7.6y	9S9S.yN	4yy2.00	1.Sy	DDe
UpsOomb	27N 1	4yS.74	9S2.62	9Sy.S6	9SS.6N	1.yS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psT5pJ	aswl sP
Lse:I sb DPP:t&:J	3 3 - S24	tOwTpmb Or T:u sb r :J	8 N
3 Pr CTI sb DPP:t&:J	3 3 - S24	&dPmT5C:FsdT5pJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:19JS9J24	&sTsFdP:u sb r :J	S923 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D7	qvg.:3 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	91 2	91N.Sy	911.yS	922.49	910.4N	1.S2	DDe
YTTr pe omb	102 1						dDw
YTTr pe omb	102 2						dDw
YTTr pe omb	106 1						dDw
YTTr pe omb	106 2						dDw
YTTpomb	Ny 1				y6		E
YTTpomb	Ny 2				y4		E
ZdCd	66 2	4yN6.67	4y76.6N	9S11.2N	4y0N.2S	S.06	DDe
Zqpd5Comb	yS 1	4y2.12	4N6.1N	4yy.y6	4y2.09	1.4S	DDe
Zqpd5Comb	y1 1	400.44	402.64	40y.N9	406.64	S.00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5&w
cRmA5Aum	2072	1.2J	- .0J	: .- 1	- .46	: J.06	l l b
c5&mn5y	12171	S.22	S.2J	S.- 1	S.20	1J.S1	l l b
crwe5Aq	0: 72	S.S-	S.Sh	S.SJ	S.S0	42.- h	l l b
BsrAum	1- : 71	S.2-	S.20	S.Sh	S.1h	4J.h0	l l b
BsrAum	1- 071	S.2-	S.2:	S.14	S.21	20.h6	l l b
BeryPAum	h71	S.11	S.11	S.S0	S.1S	24.S:	l l b
BAumu&%	2Sh71				1SS		E
BAumu&%	2Sh72				1SS		E
BrnmA5e	J171						ql w
3 sOmAum	1SJ71	S.1:	S.S-	S.1:	S.11	6: .0-	l l b
3 sOmAum	1S671	74.42	74.- 1	71.1h	7- .- 1		l l b
3 sOmAum	11171	S.S:	S.S6	S.S-	S.S:	- 1.61	l l b
3 sRqAum	4- 71	20.0h	- 6.26	11.2:	2: .1S	: S.66	l l b
3 sRqAum	4471	60.14	66.S:	4- .: 1	: J.hS	22.6:	l l b
3 srbn5	1271						ql w
3 srbn5	1272						ql w
3 %nrA5e	- : 71						ql w
3 %nrA5e	- : 72						ql w
3 %nmAum	: 272	S.S6	S.11	S.S6	S.SJ	- J.10	l l b
3 nbsR&	: h72	S.SS	S.S4	S.S4	S.S2	1SS.: 0	l l b
3 nl l er	6- 72	S.0-	S.h0	1.SS	S.hS	16.21	l l b
t ywl rnwAum	1: 671						ql w
t ywl rnwAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
GsOnP5Aum	16S71						ql w
GsOnP5Aum	16S72						ql w
HnPmAum	16: 71				1S1		E
HnPmAum	16: 72				1SS		E
D5OAum	11: 71				hh		E
D5OAum	11: 72				h6		E
Dn5	: 472	- .0S	h.S1	1S.SS	0.: 0	44.00	l l b
Dn5	: 672	- .J6	J.- h	1S.- -	0.: -	44.1-	l l b
Dn5	: 072	: .h-	J.24	1S.SJ	J.SJ	2: .01	l l b
Kryl &n5	J- 71						ql w
LesO	2S671	S.- J	S.- h	S.- 1	S.- 6	1S.h4	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsq&ar 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	cvg. 3 n5q.	3 n5qRpt	U5A&w
LesO	2S071	S.42	S.4S	S.2:	S.- 6	2: .2S	I I b
LesO	2SJ71	S.- h	S.4S	S.- 1	S.- 0	1- .SJ	I I b
LA%Aum	671				JJ		E
Msg5ewAum	2472	4.: J	1- .14	21.0S	1- .14	6: .16	I I b
Ms5gs5ewe	: : 72	S.1S	S.20	S.: :	S.- 1	0: .2J	I I b
MnPybOe5um	h471	S.h1	S.h-	S.06	S.J0	1S.6:	I I b
MnPybOe5um	h: 71	1.10	1.42	S.6h	1.1S	- - .61	I I b
MnPybOe5um	h671	1.S1	1.S1	S.6J	S.hS	21.: h	I I b
MnPybOe5um	h071	S.J0	S.J-	S.0-	S.J1	J.h1	I I b
MnPybOe5um	hJ71	S.h6	1.Sh	S.6:	S.hS	24.h:	I I b
NenOymAum	1: S71						ql w
NenOymAum	1: S72						ql w
NAqkeP	6S72	S.SS	S.S-	S.S4	S.S2	1SJ.6J	I I b
8 %nwl %nruw	- 172	76S.- 2	2.Jh	7- .S4	72S.16		I I b
8 n&swwAum	- h72	: J.1h	: J.J0	: 2.h1	: 6.66	: .06	I I b
R%nOAum	1S- 71				hJ		E
R%nOAum	1S- 72				hh		E
pqs5OAum	4: 71				h4		E
pqs5OAum	4: 72				h1		E
pere5Aum	J271	7S.- 1	7S.61	7S.S4	7S.- 2		I I b
pere5Aum	0072	7S.- J	7S.- J	7S.- J	7S.- J		I I b
pere5Aum	0J72	1.S4	S.JJ	S.24	S.02	: J.hh	I I b
pAqn5	2J71	S.60	S.4h	S.4S	S.: 2	2: .h-	I I b
pAer	1S071	S.S:	S.S4	S.S4	S.S4	16.- h	I I b
pAer	1Sh71	S.S:	S.S:	S.S4	S.S:	J.hJ	I I b
pnOAum	2- 72	1: 1.0J	16S.0:	1: 4.41	1: : .6:	2.h6	I I b
p&n5&Aum	J671	1.2J	1.- 1	S.6:	1.SJ	- 4.10	I I b
p&n5&Aum	JJ71	1.: 1	1.1S	S.6:	1.SJ	- h.00	I I b
pulur	- 471	0J.6:	7- S.h-	7124.: 2	72: .6S		I I b
i erbAum	1: h71				1SS		E
i erbAum	1: h72				hJ		E
i %sPAum	2S- 71	S.- 2	S.- 1	S.2-	S.2J	1J.2J	I I b
i %sPAum	2S: 71	S.2:	S.20	S.22	S.2:	1S.44	I I b
i A5	11J71	S.62	S.S6	S.S0	S.2:	12J.4:	I I b
i A&s5Aum	4071	S.h0	S.J4	S.- -	S.02	40.21	I I b
Urs5Aum	2- J71	S.S4	S.S0	S.S-	S.S:	- 6.Sh	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	o l ers&ar 9	aswl sP
Lsb psml Re D 9	3 3 BS24	D5w&um5e&Nsme 9	8 J
3 Re5&psml Re D 9	3 3 BS24	t Ra&n5 Fsqa&r 9	1
t s&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9SJ910	t s&sFAe Nsme 9	S: - 3 3 BC.O

8 srsme&er	Msww	3 n5Rel 1	3 n5Rel 2	3 n5Rel -	c vg. 3 n5q.	3 n5qRpt	U5A&w
Vs5sOAum	: 172	S.S2	S.S-	S.S0	S.S4	04.h0	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				hJ		E
Y&&Aum	Jh72				h6		E
ZA5q	6672	S.1J	S.- 1	S.: 6	S.- :	: : .JS	l l b
ZAqn5Aum	hS71	S.S6	S.S6	S.S-	S.S:	- - .- 0	l l b
ZAqn5Aum	h171	S.S2	S.S6	S.S-	S.S4	4J.06	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	2S0JhFJ-	2S1JJF64	2S42: FJ2	2S46JF1S	1F4J	l l b
cn&Amon%	12171	SF0h	SFhJ	SFJh	SFJh	1SF02	l l b
crwenAq	0: 72	1- F44	1- F60	1- F2h	1- F40	1F4-	l l b
BsrAum	1- : 71	- - 2FS6	- - 6F- h	- : : F2J	- 41F24	- F62	l l b
BsrAum	1- 071	- - 0F. 1	- - hF16	- : 0F0S	- 44F0h	- F2:	l l b
Ber%RAum	h71	2F. h	2F0-	2FJ1	2F01	4F1h	l l b
BAumu&E	2Sh71				1S-		G
BAumu&E	2Sh72				1SS		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFJS	SF0J	SF6h	SF06	0F12	l l b
RsOmAum	1S671	71F1h	72F41	7SFh-	71F. 1		l l b
RsOmAum	11171	SF40	SF4J	SF44	SF46	- FJ2	l l b
RsRqAum	4- 71	1J6- hF21	1h1- SFJ0	1hJJ: FJ6	1h21JF6:	- F20	l l b
RsRqAum	4471	1Jh24FhS	1h: SSF6-	2S: ShF41	1h644FhJ	4FSJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- : 71						ql w
REPrAne	- : 72						ql w
REromAum	: 272	26Fh0	26F2J	26F- h	26F. :	1F- h	l l b
RobsR&	: h72	14F46	1- F01	14F1J	14F11	2F6h	l l b
Rol l er	6- 72	26F41	2: F22	2: F. h	2: F04	2F- 0	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oFmAum	16: 71				1S:		G
y oFmAum	16: 72				1S1		G
DnOAum	11: 71				1S1		G
DnOAum	11: 72				h0		G
Don	: 472	- 6: - 0FJ4	- : S20F. 6	- : SJ1F2h	- : : 4JFhS	2F41	l l b
Don	: 672	- : 06: F6h	- 4: 01F. 2	- : 2h6Fhh	- : 211F4S	1F01	l l b
Don	: 072	- - 440Fh0	- 2020FS1	- 2h0hF. 6	- - S: 1F. 1	1F11	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	- : F1:	- 6F0S	- 0F22	- 6F- 6	2Fh6	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - S	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9119 1J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	Un&w
LesO	2S071	- 2F0S	- - F. 1	- 4F- 4	- - F. 2	2F4:	I I b
LesO	2SJ71	- - F0J	- 4Fh-	- : FJ-	- 4FJ:	2Fh:	I I b
LAEAum	671				h2		G
MsgnewAum	2472	: 2h6F- 0	: SJSF46	: 16SF01	: 10hF1J	2F11	I I b
Msngsnewe	: : 72	60hF. 4	6: 2FJh	6: 2F- :	661F. h	2F- :	I I b
MoP%bOenum	h471	: F2S	: F- -	: FJ2	: F4:	6FS2	I I b
MoP%bOenum	h: 71	1F14	1FSh	1F24	1F16	6F- J	I I b
MoP%bOenum	h671	1F6J	1F60	1F0S	1F6J	SF0J	I I b
MoP%bOenum	h071	1FSh	1F- 2	1F22	1F21	hF- J	I I b
MoP%bOenum	hJ71	1F16	1F20	1F. 6	1F- -	1: F. h	I I b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	- - F1S	- 1F6J	- 2F2-	- 2F- 4	2F21	I I b
8EowI Eoruw	- 172	4hJF. J	: 0SF46	44hF- 4	: S6F1-	12FS4	I I b
8o&swwAum	- h72	442: FJ-	4- 4hF64	44S0FJ4	4- h4F44	SFh1	I I b
5EoOAum	1S- 71				hh		G
5EoOAum	1S- 72				hh		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h4		G
pe?enAum	J271	SFJ6	1F22	1FS0	1FS:	10F10	I I b
pe?enAum	0072	64F- S	61F16	64FS1	6- F16	2F0:	I I b
pe?enAum	0J72	1: FS-	14F1h	12FS4	1- F0:	11F1J	I I b
pAAqon	2J71	242F20	24JF11	2: : FS4	24JF40	2F. 0	I I b
pA?er	1S071	SF10	SF1J	SF1J	SF1J	1F. -	I I b
pA?er	1Sh71	SF24	SF10	SF2S	SF2S	1hF- J	I I b
poOAum	2- 72	2S1F. 6	10: FJ:	1JJFJ0	1JJF06	6FJ1	I I b
p&on&Aum	J671	0hF2-	J1F0h	J: F04	J2F2:	- Fhh	I I b
p&on&Aum	JJ71	0JFh6	J2F6:	J4Fh0	J2F2S	- F6h	I I b
pufFur	- 471	71S0JF24	71162F0S	7h- 6Fh-	71S: hF2h		I I b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S2		G
i EsFAum	2S- 71	SF6:	SF6J	SF6h	SF60	- F60	I I b
i EsFAum	2S: 71	SF6:	SF6J	SF6J	SF60	2F4h	I I b
i A	11J71	2FS4	2F1-	2F16	2F11	- FS-	I I b
i A&snAum	4071	1- SF. h	12JF12	1- - F04	1- SFJ2	2F1:	I I b
UrsnAum	2- J71	1F26	1F- 1	1F- h	1F- 2	4Fh6	I I b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446716	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - S	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9119 J	t s&s. Ae Nsme 9	S: 4c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgFRonqF	Ronq5pt	UnA&w
VsnsOAum	: 172	64F4h	6- F16	6- F1S	6- F: J	1F24	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				111		G
Y&&Aum	Jh72				111		G
ZAnq	6672	11- FJ:	1ShF6h	112F- 1	111Fh:	1FJJ	l l b
ZAqonAum	hS71	2F4-	2F: 0	2F0S	2F: 0	: F- 2	l l b
ZAqonAum	h171	2F62	2F64	2F0-	2F60	2F20	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
cRmAAum	2072	JJhhFSJ	J061F1:	J611F24	J0: 0F16	1F64	l l b
cn&Amon%	12171	SF0-	SF0J	SFJ2	SF0J	: Fh1	l l b
crwenAq	0: 72	1SF2S	1SF24	1SF60	1SF- 0	2F. -	l l b
BsrAum	1- : 71	21: FJ6	22SF0J	21: F- S	210F- 1	1F- h	l l b
BsrAum	1- 071	21- F4-	22: F26	222FJ-	22SF. 1	2FJ-	l l b
Ber%BAum	h71	1F40	1F46	1F4J	1F40	SF66	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S2		G
BromAne	J171						ql w
RsOmAum	1SJ71	SFhS	1F1S	1F41	1F14	22F. :	l l b
RsOmAum	1S671	71F. 0	7- F46	7SF41	71FJ1		l l b
RsOmAum	11171	1F- 4	1F26	1F20	1F2h	- F. 2	l l b
RsRqAum	4- 71	6: h1F60	60S4FS0	60JSF0-	66h2F16	1F42	l l b
RsRqAum	4471	6hh1FhS	0S4hFSS	0Sh- F0S	0S44FJ0	SF02	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- : 71						ql w
REPrAne	- : 72						ql w
REromAum	: 272	1- Fh:	1- F. 2	1- F6S	1- F6h	1F6:	l l b
RobsR&	: h72	6F0-	6FJJ	6FJ6	6FJ2	1F2S	l l b
Rol l er	6- 72	4SFSJ	- JF0h	- hFS1	- hF2h	1F0:	l l b
t %wl rowAum	1: 671						ql w
t %wl rowAum	1: 672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oPmAum	16: 71				1S:		G
y oPmAum	16: 72				1S4		G
DrOAum	11: 71				1S2		G
DrOAum	11: 72				hh		G
Don	: 472	101SJFh0	16: 14F6J	16061Fhh	160h: F21	1F0J	l l b
Don	: 672	10J2- F04	100- JF60	10042Fh1	1006JF44	SF20	l l b
Don	: 072	16060F2:	164- 2FhS	16- 1: F40	16: S: F2S	1F42	l l b
Kr%l &on	J- 71						ql w
LesO	2S671	12hF. S	12hF- h	1- 1F- h	1- SFSh	SFJ6	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RAen&psml Re D 9	My S. - 1	t AR&on . sq&or 9	1
t s&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
LesO	2S071	12- F- 2	120F21	12JF. h	126F- 0	2F16	l l b
LesO	2SJ71	120FS2	1- 4FS6	1- SFJ0	1- SF6:	2F0S	l l b
LAEAum	671				h4		G
MsgnewAum	2472	21J4F2S	211hFJh	211hF4-	2141F1J	1F04	l l b
Msngsnewe	: : 72	4: 1F61	44: FJ4	44: FhS	440F0J	SF04	l l b
MoP%bOenum	h471	4F. 0	4F06	4F4h	4F61	- FS6	l l b
MoP%bOenum	h: 71	1F2S	1F2:	1F- S	1F2:	- FJ0	l l b
MoP%bOenum	h671	1F. h	1F02	1F62	1F64	4F2:	l l b
MoP%bOenum	h071	1F2S	1F- 4	1F- 1	1F2J	: F42	l l b
MoP%bOenum	hJ71	1F21	1F20	1F22	1F2-	2F6-	l l b
NeoO%mAum	1: S71						ql w
NeoO%mAum	1: S72						ql w
NAqkeP	6S72	1SFh0	1SF4-	1SF- 1	1SF. 0	- F- 2	l l b
8 EowI Eoruw	- 172	1J60F26	2S1hFSh	1Jh: F00	1h20F- 0	4F1h	l l b
8 o&swwAum	- h72	- 622FS:	- 6S0F6J	- 622F- -	- 610F- 6	SF2-	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1SS		G
pqsnOAum	4: 71				1S1		G
pqsnOAum	4: 72				h6		G
pe?enAum	J271	SF00	SF6h	SFh1	SF0h	14F2h	l l b
pe?enAum	0072	- 4F. 0	- 6F21	- 1F1S	- - Fh6	0F60	l l b
pe?enAum	0J72	: F00	6F- 6	0F6S	6F. J	14F10	l l b
pAqon	2J71	1J- F- 0	1J6F20	1J0F4:	1J: F0S	1F1-	l l b
pAer	1S071	SF. 0	SF. 4	SF. h	SF. 6	4F6h	l l b
pAer	1Sh71	SF. 0	SF64	SF6S	SF6S	: F- 2	l l b
poOAum	2- 72	1JSFh6	10SFh0	1JJF14	1JSFS2	4F0h	l l b
p&on&Aum	J671	JJF0:	h2Fh2	h2F44	h1F- 0	2F. S	l l b
p&on&Aum	JJ71	JhF41	h: Fh-	h: FJ2	h- F02	- FhJ	l l b
pufur	- 471	7J0- F24	7120hFJh	71S0hF20	71S00F40		l l b
i erbAum	1: h71				1S:		G
i erbAum	1: h72				1S1		G
i EsPAum	2S- 71	SF- -	SF- -	SF- -	SF- -	SF. 1	l l b
i EsPAum	2S: 71	SF- 1	SF- 1	SF- 1	SF- 1	SF0-	l l b
i A	11J71	4F- 2	4F4S	4F62	4F44	- F4-	l l b
i A&snAum	4071	12hF- S	1- 4F26	1- 4F22	1- 2F. h	2F1:	l l b
UrsnAum	2- J71	2F26	2F1h	2F- 1	2F2:	2F6h	l l b

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LB Number 9	LB1264S0	3 l ers&or 9	aswl sP
Lsb psml Re D 9	3 - 446710	Dw&umne&Nsme 9	8 J
RFen&psml Re D 9	My S. - 1	t Ro&on . sq&or 9	1
t s&e T i Ane cqduAeO 9	2S2- 7S0712 1: 9149 1J	t s&s. Ae Nsme 9	S: : c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&w
VsnsOAum	: 172	2JFh0	20F6h	20FJS	2JF1:	2F: 1	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	Jh71				1S6		G
Y&&Aum	Jh72				1S2		G
ZAnq	6672	224FS0	21hF00	22SF1h	221F- 4	1FS0	l l b
ZAqonAum	hS71	1Fh:	2F10	1Fh:	2FS2	6F4:	l l b
ZAqonAum	h171	1Fh-	2FS-	2F1J	2FS:	6F21	l l b

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Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t AR&on:. sq&or:J	1
t s&:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	9 00F-9	9h- hF09	9h- 1F-2	9h16F14	SF90	l l b
cn&mon%	12171	SF6S	SF9	SF66	SF61	6F41	l l b
crwenAq	0972	F20	F01	F4	F4h	2F61	l l b
BsrAum	1- 971	144F42	141FS	1- hF 6	141F0h	1F60	l l b
BsrAum	1- 071	146FSh	14SFS9	14SF49	142F2S	2F-0	l l b
Ber%BAum	h71	1F16	1F24	1F19	1F1	4F1h	l l b
BAumu&E	2Sh71				1S6		G
BAumu&E	2Sh72				1S4		G
BromAne	171						ql w
RsOmAum	1S 71	SF9S	SFh2	SF66	SF6h	- SF0	l l b
RsOmAum	1S671	SF0-	71F66	7- F2h	71F4S		l l b
RsOmAum	11171	SFh1	SFh2	SFh-	SFh2	SF 1	l l b
RsRqAum	4- 71	- 9hhF29	- 6S F42	- 990F1-	- 9 F20	SF06	l l b
RsRqAum	4471	- 9 1F6-	- 69SF-6	- 6S2F 1	- 611F6S	SFh0	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REPrAne	- 971						ql w
REPrAne	- 972						ql w
REromAum	9272	11F-4	11F16	11F49	11F-2	1F-S	l l b
RobsR&	9h72	9F 9	9F09	9F01	9F00	1F2-	l l b
RoI l er	6- 72	26F4-	26F- -	26F-9	26F-0	SF21	l l b
t %wl rowAum	19671						ql w
t %wl rowAum	19672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoPnAum	16S71						ql w
HsOoPnAum	16S72						ql w
y oPnAum	16971				1S4		G
y oPnAum	16972				1S-		G
DnOAum	11971				1S-		G
DnOAum	11972				1SS		G
Don	9472	122S2F6S	122S- F0S	12S92F-0	12192F h	SF02	l l b
Don	9672	12 14F6-	1- S- 9F9	1- SSSF60	12h9SF2h	SFh2	l l b
Don	9072	12S- 0F62	12S 9F-h	1212hF11	12S 4FS4	SF-	l l b
Kr%l &on	- 71						ql w
LesO	2S671	00FS4	09F92	04F6	09F04	1F9	l l b

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LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	My S. - 2	t AR&on:. sq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
LesO	2S071	0- F9h	0- F19	02F10	02Fh0	SFhh	l l b
LesO	2S 71	09F49	04F62	0- F9	04F99	1F26	l l b
LAEAum	671				h9		G
MsgnewAum	2472	1- 19F22	1- 99F66	1- - 9F- -	1- - 9F4S	1F91	l l b
Msngsnewe	9972	441F4	446F9S	442F0S	44- F96	SF9h	l l b
MoP%bOenum	h471	- F- 4	- F- S	- F19	- F26	- FS-	l l b
MoP%bOenum	h971	1F1	1FS-	SFh6	1FS6	1SF6S	l l b
MoP%bOenum	h671	1F- 6	1F2	1F- 2	1F- 2	2F00	l l b
MoP%bOenum	h071	1F2S	1FSh	1F11	1F1-	9F10	l l b
MoP%bOenum	h 71	1F14	1FS9	1FS4	1FS0	4Fhh	l l b
NeoO%mAum	19S71						ql w
NeoO%mAum	19S72						ql w
NAqkeP	6S72	0F -	F29	FSS	FS-	2F66	l l b
8 EowI Eoruw	- 172	062F9h	h- 2F9h	h14F- 2	6hF -	1SF0-	l l b
8 o&swwAum	- h72	1h SF12	2S26F 4	2S2hF 1	2S12F26	1F- h	l l b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqsnOAum	4971				1S1		G
pqsnOAum	4972				h0		G
pe?enAum	271	SF29	SF4h	SF- 2	SF- 6	- 4Fhh	l l b
pe?enAum	0072	- SFS9	- 4F1	- 4F 2	- - FS2	0F 6	l l b
pe?enAum	0 72	0F- S	6F41	9FhS	6F94	1SFhS	l l b
pAAqon	2 71	10 F26	1 1F40	106F12	10 F62	1F91	l l b
pAPer	1S071	SF- 0	SF- 2	SF- 9	SF- 9	0F0S	l l b
pAPer	1Sh71	SF- 1	SF26	SF- 2	SF- S	1SF41	l l b
poOAum	2- 72	194FhS	196FS-	199F 2	199F9h	SF- h	l l b
p&ona&Aum	671	91F0S	91F21	9SF1h	91FS-	1F91	l l b
p&ona&Aum	71	9SF1h	9SF- 9	4hFh2	9SF19	SF4-	l l b
pulPur	- 471	71622F24	719h F4-	716h0F69	716- hF44		l l b
i erbAum	19h71				1S9		G
i erbAum	19h72				1S1		G
i EsPAum	2S- 71	SF26	SF2-	SF24	SF29	9F- 1	l l b
i EsPAum	2S971	SF29	SF24	SF24	SF29	2F96	l l b
i An	11 71	2F- -	2F- S	2F46	2F- 6	- F69	l l b
i A&snAum	4071	h Fh	h Fh1	h6F26	h FS9	1F9	l l b
UrsnAum	2- 71	1F6S	1F9	1F99	1F9	1F64	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44671	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	My S. - 2	t Ro&on:. sq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:19J10J16	t s&s. Ae:Nsme:J	S96c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	9172	22F69	22F6h	22F91	22F62	SF41	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				1S6		G
Y&&Aum	h72				1S2		G
ZAnq	6672	1- - F4S	1- F12	1- 2Fhh	1- 4F -	2F11	l l b
ZAqonAum	hS71	1F- 2	1F- -	1F20	1F- 1	2F2-	l l b
ZAqonAum	h171	1F26	1F2	1F- 2	1F2h	2F00	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	11- - SU1-	1194 U9S	110N2U11	1199- U 1	1U 6	DDe
q5Tb n5%	12171	SU9	SU9 9	SU4-	SU9	1SUNN	DDe
qpwr 5cd	0972	12US1	1SU06	11U04	11U9S	9U09	DDe
Bspcmb	1- 971	240USN	290U49	296U62	29- U01	2U20	DDe
Bspcmb	1- 071	249U69	292U0	290U49	291U 6	2U 6	DDe
Br p%PPmb	71	2U11	2U14	2U1-	2U1-	SUN9	DDe
Bcvb mTE	2S 71				1S		G
Bcvb mTE	2S 72				1S-		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	1US-	1US1	1US4	1US2	1U 4	DDe
v sob cmb	1S671	7SUS0	72U41	71UNN	71U49		DDe
v sob cmb	11171	SUN0	SU6	SUN-	SUNS	11U00	DDe
v sPdcmb	4- 71	1S 14U9-	11S SU9-	11292U2-	11SN9U00	1U92	DDe
v sPdcmb	4471	1140- U2N	119N2U4S	110 NUSN	11610U 2	1U42	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpd5r	- 971						dDw
v EPmpd5r	- 972						dDw
v Epmb cmb	9272	19US	19U1	16U19	19U4N	- U00	DDe
v nesPT	9 72	11U9 2	1SUNS	11U4	11U2S	- U2S	DDe
v nDDr p	6- 72	- 1UNN	- 2U9 2	- - U 6	- 2U02	- U9 9	DDe
&%wDpnwcmb	19671						dDw
&%wDpnwcmb	19672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16971				1SN		G
h nPb cmb	16972				1S-		G
t5ocmb	11971				1S6		G
t5ocmb	11972				1SS		G
tpn5	9472	291S0U14	29640U9N	2611SUNS	29621U00	1U 6	DDe
tpn5	9672	2922SU9 4	24N40U1N	264S6U1N	294 1U24	- U1	DDe
tpn5	9072	2- 422U9 9	2- S16U61	246- NU0-	2- 6 2U96	- U96	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	64U4S	64UN6	69US1	64U09	SU4	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdPP:u sb r :J	S90qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	61UJ 1	61U1	61U64	61UJ N	SUJ N	DDe
Lr so	2SN71	6- U1N	62U91	6- U20	62U	SU66	DDe
LdEomb	671				0		G
y sM5r womb	2472	91- 4US4	9199U9S	9- 24U 9	92S4UN-	2US1	DDe
y s5Ms5r wr	9972	00SU94	000UJ 4	N19U46	0N0U0N	- US0	DDe
y nP%eor 5mb	471	9U90	9U9	9U90	9U9N	SU1	DDe
y nP%eor 5mb	971	1U1S	1U2-	1U21	1U1N	9U 4	DDe
y nP%eor 5mb	671	1U91	1U6	1U60	1U62	9U -	DDe
y nP%eor 5mb	071	1UJ 4	1U1S	1U2N	1U24	1SUS	DDe
y nP%eor 5mb	N71	1U1	1U14	1U2S	1U1N	2U9-	DDe
u r no%b omb	19S71						dDw
u r no%b omb	19S72						dDw
u dkr P	6S72	1 U12	1NJ 9	1 U04	1 US0	- U64	DDe
8 EnwDEnpmw	- 172	1269UN9	120SU	12 1U1S	1209U N	1US9	DDe
8 nTswwomb	- 72	- 6N1UJ 2	- 660U22	- 000U6	- 0SNU04	1U62	DDe
CEnoomb	1S- 71				1S6		G
CEnoomb	1S- 72				1S2		G
I ds5oomb	4971				1S6		G
I ds5oomb	4972				0		G
I r P 5omb	N271	SU0	SUN	1U90	1USN	- U26	DDe
I r P 5omb	0072	4NU12	- 1UN0	46U1N	42US6	21U1S	DDe
I r P 5omb	0N72	0U9-	NUN	NUJ S	NU24	NU20	DDe
I dPdn5	2N71	10NUS1	10- U49	1N4US2	10NU4	2U 0	DDe
I dPgr p	1S071	SU1N	SU22	SU22	SU21	1SU12	DDe
I dPgr p	1S 71	SU2S	SU21	SU22	SU21	4U40	DDe
I nomb	2- 72	10SU 6	102U91	106UJ	10- U2	1U62	DDe
I Tpm5Tomb	N671	0U6N	1SSUS2	NU6N	NUNS	1U1	DDe
I Tpm5Tomb	NN71	1S- U4-	1S- U49	1S9U9-	1S4U14	1U16	DDe
I mPmp	- 471	71NN9U 4	710- SU14	716 2UN4	7106 U64		DDe
Ar pemb	19 71				1SN		G
Ar pemb	19 72				1S-		G
AEs PPmb	2S- 71	SUJ -	SUJ 2	SUJ N	SUJ 4	U21	DDe
AEs PPmb	2S971	SUJ 6	SUJ 2	SUJ 9	SUJ 4	6US-	DDe
Ad5	11N71	- U1-	- U26	- U24	- U21	2US0	DDe
AdS5omb	4071	1US9	2U -	2UN-	2U20	1U19	DDe
Rps5omb	2- N71	2U N	- US9	- US9	- US2	1UJ S	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 44671	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SF- -	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J2SJ1	&sTsFdP:u sb r :J	S90qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	9172	- SUS6	2 UN9	- 1U6S	- SU91	- U1-	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				111		G
YTTpomb	N 72				1S6		G
Zc5d	6672	219U6	216U9	220U90	21 U9	- US1	DDe
Zqpdn5omb	S71	2U9N	2U64	2UN1	2U6N	4U26	DDe
Zqpdn5omb	171	2U69	2U9-	2U6	2U62	- U 1	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	0hS2F24	0886FS-	0821F. 8	086hFh:	SF. 4	I I b
cn&Amon%	12171	SF04	SF8:	SF0h	SF0h	6F4:	I I b
crsenAq	0: 72	hFh4	hF0:	hF68	hF0h	1F- h	I I b
BarAum	1- : 71	266F- 2	260F60	260Fh4	260F- 1	SF- 2	I I b
BarAum	1- 071	201F02	20- F46	20SF81	202FSS	SF4h	I I b
Ber%lAum	h71	1F4:	1F- 2	1F4-	1F4S	: FS1	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	1F1-	1F10	SF8-	1FS4	18FS6	I I b
RaOmAum	1S671	71F8S	71F28	71F11	71F4S		I I b
RaOmAum	11171	SF. :	SF4h	SF. -	SF. 2	: F. :	I I b
RalqAum	4- 71	16: 0- F- S	1682hF26	10S0hF. -	16820F- 6	1F. S	I I b
RalqAum	4471	101S8F. -	104- 6F66	10012F82	1041hF- 4	1F04	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	- 4F- 0	- 4F0h	- 4Fh:	- 4F0S	SF88	I I b
Robal&	: h72	11F- :	11F44	11F18	11F- -	1F18	I I b
RoI I er	6- 72	- 1F08	- 1F1-	- 1F26	- 1F- h	1F1S	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S8		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S0		G
DnOAum	11: 72				1S-		G
Don	: 472	21- - 2F41	2121- F68	21S44F64	211h6Fh1	SF68	I I b
Don	: 672	2Sh14F22	2S04SF61	2S0- 6F82	2S0h0F22	SF4h	I I b
Don	: 072	1h: 26F. 4	1h181F02	1h482F. 6	1h- h6Fh4	SFh0	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	14SF1h	1- 8FS:	1- 4F. 1	1- 0F. 8	2FS8	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	12hF2S	128F. 0	124F86	120F. 4	1F84	l l b
LeaO	2S871	1- hF88	1- 0F- 8	1- 4F88	1- 0F- 8	1F82	l l b
LA&EAum	671				h0		G
MagnesAum	2472	- 812F26	- 0h4Fhh	- 8S: F1:	- 8S4F1-	SF2-	l l b
Manganese	: : 72	2Sh: Fh-	2S46Fh0	2S24F- 1	2S: : F0-	1F08	l l b
Mol%bOenum	h471	: F06	: F0-	: F04	: F0:	SF21	l l b
Mol%bOenum	h: 71	2F20	2FS-	2F2S	2F10	: F66	l l b
Mol%bOenum	h671	2F. 8	2F. 8	2F. 2	2F. 6	1F4:	l l b
Mol%bOenum	h071	2F16	2F1-	2F- S	2F2S	4F1S	l l b
Mol%bOenum	h871	2F28	2F20	2F- :	2F- S	1Fh2	l l b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	10Fh:	18F21	18F- -	18F16	1FS8	l l b
PEosI Eorus	- 172	610F41	680FS0	6S4F68	6- 6F- h	6Fh0	l l b
Po&assAum	- h72	2S61F. :	2S- - FS4	2S: SF02	2S48F44	SF0S	l l b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S:		G
pqanOAum	4: 71				1S0		G
pqanOAum	4: 72				1SS		G
pelenAum	8271	SF6S	SF42	SF08	SF6S	2hF- -	l l b
pelenAum	0072	- 6F28	2: F. 1	- 0F2-	- - FS1	1hF0-	l l b
pelenAum	0872	: F02	: Fh-	: F8S	: F82	1F08	l l b
pAAqon	2871	100F2h	108FSS	18- F2h	10hF. -	1F82	l l b
pAver	1S071	SF21	SF2:	SF24	SF2-	1SF20	l l b
pAver	1Sh71	SF2-	SF21	SF2-	SF22	: F42	l l b
poOAum	2- 72	26- Fhh	2: 8F2:	2: 1F80	2: 8FS4	2F- :	l l b
p&ona&um	8671	11- F82	11: FS2	114F- h	114F41	SF. -	l l b
p&ona&um	8871	11hF. 2	122F66	12SF11	12SF06	1F- 8	l l b
pulfur	- 471	721h- F64	71h: : F4:	71: h0FS-	71h1: F- 8		l l b
i erbAum	1: h71				1S8		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF26	SF24	SF24	SF2:	: F8:	l l b
i EallAum	2S: 71	SF26	SF28	SF24	SF26	0F18	l l b
i An	11871	4FS4	- Fhh	4FS6	4FS-	SF88	l l b
i A&anAum	4071	h1F40	h1F40	h2Fh:	h1Fh6	SFh-	l l b
UranAum	2- 871	1F02	1F6h	1F68	1F0S	1F1-	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 44672S	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. - 4	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 92- 916	t a&a. Ae Name 9	S: 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	2: F04	26F22	2: F28	2: F0:	1F82	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11S		G
Y&&Aum	8h72				112		G
ZAnq	6672	1- 4F2h	1- 2FS1	1- 1F4:	1- 2F. h	1F1-	I I b
ZAqonAum	hS71	2F2S	2F- 6	2F2h	2F28	- F60	I I b
ZAqonAum	h171	2F21	2F24	2F42	2F2h	: FS:	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	226- 1U51	22: - 1USS	25686U22	24545U01	16U44	I I b
c n&Amon%	12171	- 0U6-	41U66	42U-1	4SU-4	6U2:	I I b
c rsenAq	0: 72	0S1U68	6: SU-5	850U2S	045U82	10U-6	I I b
BarAum	1- : 71	1016U-:	1844U22	18: - U-:	18S4U64	4U24	I I b
BarAum	1- 071	101: U-6	1818U16	185: U6:	18S5U02	: USS	I I b
Ber%IAum	571	- U01	- U50	- U08	- U82	- U-S	I I b
BAsmu&E	2S571				112		G
BAsmu&E	2S572				50		G
BromAne	8171						ql s
v aOmAum	1S871	5U00	12U48	11U40	11U24	12U15	I I b
v aOmAum	1S671	5U84	8U66	5U5-	5U48	0U48	I I b
v aOmAum	11171	5U5S	1SU66	1SU5-	1SU-S	: U12	I I b
v alqAum	4- 71	- 4S21U66	- 0S: 6U54	- 6416U65	- : 8- 1U06	4U40	I I b
v alqAum	4471	- : 2S6U22	- 8SS1USS6	- 0466U--	- 6851U2S	4USS2	I I b
v arbon	1271						ql s
v arbon	1272						ql s
v ElorAne	- : 71						ql s
v ElorAne	- : 72						ql s
v EromAum	: 272	- 0U-S	- 8U8-	: 1U1S	42U48	10U6:	I I b
v obal&	: 572	22U00	2- U64	- SU64	2: U68	16U8S	I I b
v ol I er	6- 72	12: USS8	126U2-	16: U-1	1- 8U54	16U-0	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
. rbAum	16471						ql s
. rbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
h olmAum	16: 71				112		G
h olmAum	16: 72				56		G
DnOAum	11: 71				11S		G
DnOAum	11: 72				5-		G
Don	: 472	- 84- 0USS5	- 8- 0SU6-	: 1- 0- U6-	42020U12	10U--	I I b
Don	: 672	- 0525U84	- 8: 51U52	: S25: U1S	42202U25	16U4:	I I b
Don	: 072	- : : 0- U10	- 6211U-1	40564U5S	- 5516U--	10U48	I I b
Kr%I &on	8- 71						ql s
LeaO	2S671	6: 0U-5	65- U-2	015U5:	65SU-:	4U--	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	6: SU2	601U0	65- U2	601U81	- U2S	I I b
LeaO	2S871	66- U6-	651U84	0S5US-	688U10	- U-	I I b
LA&EAum	671				1S2		G
y aMhesAum	2472	11- 26U46	11458U82	14524US2	12: 8- U1S	16U1-	I I b
y anManese	: : 72	61S: U28	6245U18	822- U05	68: 5U42	10U26	I I b
y ol%bOenum	5471	04U5	81U8S	8SU8	08U86	4U55	I I b
y ol%bOenum	5: 71	46US4	: 1US0	: SU50	45U6	: U8-	I I b
y ol%bOenum	5671	45U05	: - U:	: 4U80	: 2U04	: USS	I I b
y ol%bOenum	5071	40U8S	: 1US5	: SU62	45U84	- U0	I I b
y ol%bOenum	5871	46U0	: SU02	: SU50	45U:	: U24	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	- : U25	- : U1	40U10	- 5U26	10U4:	I I b
PEosI Eorus	- 172	6448U4	66- 4U8S	8818U68	0- SSU60	18US:	I I b
Po&assAum	- 572	865- U2-	8685US:	1144- US	56S8U-	16U4	I I b
CEoOAum	1S- 71				1S8		G
CEoOAum	1S- 72				5:		G
pqanOAum	4: 71				111		G
pqanOAum	4: 72				5-		G
pelenAum	8271	SU44	SU28	1U16	SU6-	0: U06	I I b
pelenAum	0072	6: U5S	68US5	80U-	0- U00	1: U55	I I b
pelenAum	0872	14U66	14U84	2- U2S	10U0	20U06	I I b
pAAqon	2871	160U24	182U68	105U80	106U6S	4U66	I I b
pAger	1S071	11U20	12U5	12U8	12US1	: U6	I I b
pAger	1S571	11U00	12U4:	12U66	12U25	- U08	I I b
poOAum	2- 72	11S1U2	111- US	1: S1U4-	12- 8U82	18U6	I I b
p&ona&Aum	8671	42: U6S	40SU81	4: 6U0-	4: 1US4	: U1-	I I b
p&ona&Aum	8871	4- : U0:	404U6	466U5S	4: 5US0	4U48	I I b
pulfur	- 471	72S1SU08	71261U4	71- 42U5	71: - 8U24		I I b
i erbAum	1: 571				111		G
i erbAum	1: 572				5:		G
i EallAum	2S- 71	- US4	- US4	- U2:	- U11	- U54	I I b
i EallAum	2S: 71	2U5-	- U14	- U24	- U1S	: U1:	I I b
i An	11871	1U52	2U2-	2U20	2U14	8U00	I I b
i A&anAum	4071	4S- U6-	444U46	4- 5U1:	425US8	: U10	I I b
RranAum	2- 871	11U46	12U4-	12US	12US6	4U6	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 446721	Dns&umne&Name 9	P8
v lAen&pamI le D 9	y h SF- :	t Au&on Faq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 926914	t a&aFAe Name 9	S: 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	: 172	- 40U18	- : 6U61	464U60	- 85U45	16U06	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8571				118		G
Y&&Aum	8572				1S1		G
ZAnq	6672	1865U85	1512U26	2: 16U6:	2S55U6S	10U2-	I I b
ZAqonAum	5S71	2SU15	22U6S	22U15	21U05	4U88	I I b
ZAqonAum	5171	21U42	22U6:	22U45	22U15	- US2	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2- - N: U4J	2- 1: JU0-	22J2: U6-	2- 1: 6UJ:	SUJJ	DDe
q5Tb n5%	12171	41U0-	- 0U21	41U-6	4SU10	6U-N	DDe
qpwr 5cd	0: 72	0- 2UJ0	0- : U4S	0- : USS6	0- 4U40	SU1N	DDe
Bspcmb	1- : 71	0- NUSN	6: JUSS6	0- : U00	01SUJ0	6U-2	DDe
Bspcmb	1- 071	0NNU22	0S2UN-	002U-:	0: 4U40	6USS2	DDe
Br p%PRmb	J71	4USS1	- U-S	- U06	- U06	6UNS	DDe
Bcvb mTE	2SJ71				1SJ		G
Bcvb mTE	2SJ72				1S-		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1- U-S	1SU24	12U2N	11UJ4	1- USS-	DDe
v sob cmb	1S671	NU2S	JU-4	1SUS0	JU20	1SU42	DDe
v sob cmb	11171	11U1J	1SU22	1SU46	1SU62	4U0-	DDe
v sPdcmb	4- 71	4- 662U-	- J4- : U2:	420S: U60	41J- 4U42	: U2J	DDe
v sPdcmb	4471	4460SU4-	4S4N6U-2	440N1U16	4- - 12U64	: U6:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- : 71						dDw
v EPhpc5r	- : 72						dDw
v Epmb cmb	: 272	- SUNJ	- SU-0	- SU-4	- SU6S	SUJS	DDe
v nesPT	: J72	22U-0	22U2J	22U2:	22U-1	SU20	DDe
v nDDr p	6- 72	1: NU6S	1: 6U1S	1: 0UJ-	1: 0U-4	SUN2	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonR5cmb	16S71						dDw
HsonR5cmb	16S72						dDw
h nPb cmb	16: 71				11S		G
h nPb cmb	16: 72				1S:		G
t5ocmb	11: 71				1SN		G
t5ocmb	11: 72				JN		G
tpn5	: 472	- 0140USS6	- 02S- UN-	- 62: JUNN	- 6N0SU26	1U44	DDe
tpn5	: 672	- 6- 66U44	- 61- 1UNN	- : 6: 4U-4	- 6S: SUJ:	1USS1	DDe
tpn5	: 072	- 42: 2U1S	- - 0J4U4:	- - 02NU-	- - J2: USS-	SUN4	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	6- NU1-	: : 1U66	6S4U-N	: JNU12	0U2J	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF- 6	&dPmTm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	610U6	: 46US2	: J2U42	: N: U20	6U1J	DDe
Lr so	2SN71	620UJS	: 4JUJJ	6S2UJ	: J- U4-	6U6J	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	J60SU6:	J64- U2J	JN61UJ0	J02: UJS	1U2-	DDe
y s5Ms5r wr	: : 72	6440UN:	6- - : UJ:	62NSU20	6- : 4U6J	1UJ4	DDe
y nP%eor 5mb	J471	N6UJJ	06UJJ	N2U24	N1UN0	: U0:	DDe
y nP%eor 5mb	J: 71	: NUJ2	: 2U14	: 4UN2	: : U16	: UNS	DDe
y nP%eor 5mb	J671	61U6N	: 4U42	: NU6S	: NU2-	6U26	DDe
y nP%eor 5mb	J071	: NU6N	: - U4:	: 4UN:	: : U66	4UN0	DDe
y nP%eor 5mb	JN71	: NU0:	: - U1-	: : U44	: : U00	: US6	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	- 6U0:	- : UJ2	- 6UJ-	- 6UJ-	1U1:	DDe
8 EnwDEnpmw	- 172	: : 1: U2:	: : N: U2-	: 4: SUS4	: : 16UN4	1U2-	DDe
8 nTswwcmb	- J72	NNJ4U46	JSS0U44	NN2NUSS	NJSJUJ0	1US2	DDe
CEnocmb	1S- 71				1S6		G
CEnocmb	1S- 72				1S2		G
l ds5ocmb	4: 71				1SN		G
l ds5ocmb	4: 72				JJ		G
l rP 5cmb	N271	SUJS	SU6N	1US1	SUN6	1JU2N	DDe
l rP 5cmb	0072	: 0UJ4	: 1U21	: JUJ1	: 6U22	0UN4	DDe
l rP 5cmb	0N72	1- U21	16U0J	12U6-	14U21	1: UNN	DDe
l cdn5	2N71	1J: UN2	10: U2-	1J1U1N	1N0U41	: U06	DDe
l dgr p	1S071	12USJ	1SU6-	11U4J	11U4S	6U4:	DDe
l dgr p	1SJ71	11UJ0	1SUJ:	11UJ0	11UJS	4U40	DDe
l nocmb	2- 72	1SS0UN1	1SS4U26	1SS1US0	1SS4UJN	SUJ4	DDe
l Tpm5Tcmb	N671	: : JUJ6	4NNU60	: - SU1-	: 26U26	6UNS	DDe
l Tpm5Tcmb	NN71	: 6- UJ-	: SJU66	: - NU02	: - 0U24	: USS	DDe
l mPmp	- 471	0142USN	: - 06U42	0S66U40	6: 2NUJ2	1: U2J	DDe
Ar pecmb	1: J71				1SJ		G
Ar pecmb	1: J72				1S4		G
AEs Pmb	2S- 71	2UN1	2U44	2UJ0	2U61	0U2:	DDe
AEs Pmb	2S: 71	2UN1	2U4S	2U0-	2U64	NU2J	DDe
Ad5	11N71	2USN	2U1J	2U11	2U1-	2U0-	DDe
Ad5 5cmb	4071	- 00UN6	- - : UJJ	- 60U4N	- 6SU24	6U1:	DDe
Rps5cmb	2- N71	1- US1	11U1:	12UJ-	12U16	0U06	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 446722	t5wTpmb 5r Tu sb r 9	8 N
v Rc 5Tl sb DP t& 9	y h SF- 6	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 92J9S0	&sTsFdP u sb r 9	S6SqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	- 1- UJ0	- 16U60	- 12UN0	- 14U S	SU62	DDe
YTTr pe omb	10271						dDw
YTTr pe omb	10272						dDw
YTTr pe omb	10671						dDw
YTTr pe omb	10672						dDw
YTTpomb	NJ71				114		G
YTTpomb	NJ72				1S4		G
Zc5d	6672	1N- 2U J	1N- 4UJ-	10J- U66	1N2SU4S	1U20	DDe
Zqpdn5omb	JS71	21U0:	1JU11	21U26	2SU01	6UNS	DDe
Zqpdn5omb	J171	22U44	1JU2N	21U2J	21U$S	0U J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UndTw
Pmb ondmb	2072	1- h6hFN-	1- N90F2h	1- 022FSS	1- N4hF01	SFhS	DDe
nTb on%	12171	SF09	SF06	SF0h	SF06	2F0N	DDe
pwr ndq	0972	N2FS2	N9F11	N6F46	N4F9-	2F6h	DDe
Bspdmb	1- 971	- 04F99	- N1F6S	- N- F49	- 0hFN0	1F24	DDe
Bspdmb	1- 071	- 0NF6-	- 0NFh1	- N4F4-	- NSF66	SFN6	DDe
Br p%PPmb	h71	1F69	1F6N	1F69	1F66	1F2N	DDe
Bdwb mTE	2Sh71				1S0		G
Bdwb mTE	2Sh72				1S9		G
Bpob dnr	N171						qDw
RsOb dmb	1SN71	1Fh6	1Fh4	2F1N	2FS2	6F6S	DDe
RsOb dmb	1S671	SF96	7- FS9	71FS2	71F10		DDe
RsOb dmb	11171	1F9-	1F- 9	1F- h	1F42	6F61	DDe
RsPqdmb	4- 71	1N- 1- F04	1N244Fh9	1N24- F- 6	1N260F- 9	SF22	DDe
RsPqdmb	4471	1h1- 4FNS	1hSS- F9S	1NN46F2S	1Nhh4FN-	SF06	DDe
Rspeon	1271						qDw
Rspeon	1272						qDw
REPpdnr	- 971						qDw
REPpdnr	- 972						qDw
REpob dmb	9272	22F91	22F49	22FS0	22F- 4	1FS0	DDe
RoesFT	9h72	16Fh1	10F94	16FN0	10F1S	2F1h	DDe
RoDDr p	6- 72	09F92	04FN6	04Fh2	09F1S	SF4N	DDe
&%wDpowdmb	19671						qDw
&%wDpowdmb	19672						qDw
Cpedmb	16471						qDw
Cpedmb	16472						qDw
HsOoPhdmb	16S71						qDw
HsOoPhdmb	16S72						qDw
y oPb dmb	16971				1Sh		G
y oPb dmb	16972				1S4		G
tnOdmb	11971				1S6		G
tnOdmb	11972				hh		G
tpon	9472	42NS6F21	42hS6FN9	4- S62F42	42h29F16	SF- S	DDe
tpon	9672	4264NF9N	42- 1SFNh	41N6NF02	42206FS6	SFh-	DDe
tpon	9072	42916FNN	42hN2F16	4199NF6N	42- 92F9N	1F01	DDe
Kp%DTon	N- 71						qDw
Lr sO	2S671	NhF91	N6F0h	N0Fh6	NNFSN	1F99	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 spsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UndTw
Lr sO	2S071	N9F92	N2FN2	N- FNh	N4FSN	1F62	DDe
Lr sO	2SN71	N6F4N	N4F9-	N0FS4	N6FS2	1F94	DDe
LdEomb	671				hh		G
Msgnr womb	2472	69h1FN6	6091FhS	66N9F46	6606F41	1F2S	DDe
Msngsnr wr	9972	hh6F6S	1SS1F6N	hh4F9-	hh0F6S	SF- 0	DDe
MoP%eOr nnmb	h471	12FS9	11FNh	11Fh6	11Fh0	SF66	DDe
MoP%eOr nnmb	h971	1FN6	1FNS	1F6-	1F06	6FN2	DDe
MoP%eOr nnmb	h671	2Fh1	2F06	2FN1	2FN-	2F6-	DDe
MoP%eOr nnmb	h071	1F6-	1F6N	1F01	1F60	2F29	DDe
MoP%eOr nnmb	hN71	1F04	1F0h	1F00	1F00	1F4S	DDe
u r oO%b omb	19S71						qDw
u r oO%b omb	19S72						qDw
u oqkr P	6S72	- - F24	- - F- h	- - F14	- - F26	SF- 0	DDe
8 EowDEopmw	- 172	- 62SFN-	- 4- 1F96	- - 4NF29	- 466FNN	4FS-	DDe
8 oTswwomb	- h72	92SNF- h	9- 91Fhh	9210F20	929hF22	1F9-	DDe
5 EoOomb	1S- 71				1S6		G
5 EoOomb	1S- 72				1S-		G
I qsnOomb	4971				1SN		G
I qsnOomb	4972				hh		G
I r Pnomb	N271	1Fh2	1F96	1F69	1F01	11FS0	DDe
I r Pnomb	0072	- 0F- -	4SF06	2hF94	- 9FNN	16FS2	DDe
I r Pnomb	0N72	NFN2	6F06	1SF6h	NF06	22F4h	DDe
I dqon	2N71	290F- 1	29- F0-	24SF- 2	29SF46	- F9N	DDe
I dPr p	1S071	SF- 6	SF4S	SF- 0	SF- N	9F6N	DDe
I dPr p	1Sh71	SF- h	SF- N	SF- 9	SF- 0	9FhS	DDe
I oOomb	2- 72	1hNF60	1h4F4h	1hhF02	1h0F6-	1F4S	DDe
I TponTomb	N671	162F6S	169F11	162FSh	16- F20	SFhh	DDe
I TponTomb	NN71	16NFh-	101F06	16hF20	16hFhN	SFh1	DDe
I mPmp	- 471	7h0NF4S	712N2F1N	71- 2SFNN	711h- FN2		DDe
Ar peomb	19h71				11S		G
Ar peomb	19h72				1S-		G
AEs PPomb	2S- 71	SF- 6	SF- 9	SF- 6	SF- 9	2F10	DDe
AEs PPomb	2S971	SF- 1	SF- 1	SF- 2	SF- 1	SF6S	DDe
Aon	11N71	1F46	1F94	1F91	1F9S	2F96	DDe
AdSnomb	4071	11hF46	110F- 0	119F4h	110F44	1F6h	DDe
Upsnomb	2- N71	- F- 4	- F20	- F- 9	- F- 2	1F20	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTopJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4467S1	tnwTpmb nr Tu sb r :J	8 N
RPr nTI sb DPP:t&:J	My S. S2	&dPmTon:. sqTopJ	1
&sTr :i :Adb r : qdmqpr O.J	2S2- 7S0712:19J- 2JS4	&sTs. dP:u sb r :J	S61 5 C. FO

8 sspsb r Tr p	Msww	Ron5 r D1	Ron5 r D2	Ron5 r D-	vgF:RonqF	Ronq5 I &	UndTw
VsnsOomb	9172	9hF96	9NFh1	9hF9-	9hF- -	SF62	DDe
YTTr peomb	10271						qDw
YTTr peomb	10272						qDw
YTTr peomb	10671						qDw
YTTr peomb	10672						qDw
YTTpomb	Nh71				11-		G
YTTpomb	Nh72				1SN		G
Zonq	6672	- 2- FS2	- 1hFS6	- 10F06	- 1hFh4	SFN6	DDe
Zqpqonomb	hS71	9Fh1	9FN2	9Fh-	9FNh	SFh0	DDe
Zqpqonomb	h171	9FN6	6F44	6FS-	6F11	4FN6	DDe

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Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&wUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
c&umA5Aum	20:2	1F7a	1F52	1F 1	1F47	71F71	l l b
c5&Amn5h	121:1	SF51	SF51	SF5S	SF51	4aF26	l l b
crl e5Aq	0-:2	SF52	SF57	SF52	SF52	27Fa	l l b
BwrAum	17-:1	SF1S	SF51	SF54	SF5-	a0F60	l l b
BwrAum	170:1	SF17	SF52	SF51	SF56	121F-6	l l b
Berh&Aum	:1	SF52	SF52	SF51	SF52	74F1a	l l b
BAmu&%	2S :1				1S-		E
BAmu&%	2S :2				1S2		E
BrnmA5e	a1:1						ql l
CwOmAum	1Sa:1	:SF1S	:SF1S	:SF52	:SF50		l l b
CwOmAum	1S6:1	:6F22	:0Fa7	:6F2-	:6F00		l l b
CwOmAum	111:1	:SF54	:SF5-	:SF5-	:SF5-		l l b
Cw&qAum	47:1	2F 4	1F56	:SF1S	1F7S	110F 6	l l b
Cw&qAum	44:1	10F51	12F66	1-F2-	14F 0	14F64	l l b
Cwrbn5	12:1						ql l
Cwrbn5	12:2						ql l
C%&nrA5e	7-:1						ql l
C%&nrA5e	7-:2						ql l
C%nnmAum	-2:2	SF57	:SF57	SF12	SF54	1a-F0	l l b
Cnbw&&	- :2	SF5S	SF5S	SF5S	SF5S		l l b
CnI l er	67:2	SF26	SF1-	SF22	SF21	26F -	l l b
t hl l rnl Aum	1-6:1						ql l
t hl l rnl Aum	1-6:2						ql l
. rbAum	164:1						ql l
. rbAum	164:2						ql l
GwOn&5Aum	16S:1						ql l
GwOn&5Aum	16S:2						ql l
Hn&nAum	16-:1				1S4		E
Hn&nAum	16-:2				1S4		E
D5OAum	11-:1				1S4		E
D5OAum	11-:2				1SS		E
Dn5	-4:2	1Fa-	2F7-	1F5S	1F07	7 F22	l l b
Dn5	-6:2	SF0a	2F7a	1F4S	1F-2	-7F5S	l l b
Dn5	-0:2	:SF50	7F51	2F14	1F6	4F57	l l b
Krhl &n5	a7:1						ql l
LewO	2S6:1	SF17	SF5a	SF5a	SF1S	2aF6a	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw&ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C&e5&pwml &e9D 9J9	3Bp 21	t A&u&h59Jwq&ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&wUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
LewO	2S0:1	SF14	SF5	SF5	SF11	27F16	I I b
LewO	2Sa:1	SF12	SF5a	SF5	SF1S	27F46	I I b
LA&%Aum	6:1				-		E
y wW5el Aum	24:2	SF- -	1F-4	SFa	SF	- 1F5	I I b
y w5Mw5el e	- - :2	SF11	SF16	SF40	SF2-	0aF0a	I I b
y n8nbOe5um	4:1	SF56	SF5-	SF5S	SF54	a4F06	I I b
y n8nbOe5um	- :1	SF52	SF52	SF57	SF52	7- F26	I I b
y n8nbOe5um	6:1	SF56	SF52	SF51	SF57	00F4S	I I b
y n8nbOe5um	0:1	SF57	SF52	SF5S	SF52	1S4F-4	I I b
y n8nbOe5um	a:1	SF52	SF51	SF51	SF51	0SFaa	I I b
NenOhmAum	1- S:1						ql l
NenOhmAum	1- S:2						ql l
NAqke8	6S:2	:SF52	SF52	SF51	SF5S	1S- 6F2S	I I b
3%nl l %nrul	71:2	:0SF7-	:4 F- -	:71Fa6	:- SF-		I I b
3n&wl l Aum	7 :2	:SF60	:6F44	7F52	:1F76		I I b
v %nOAum	1S7:1				1S7		E
v %nOAum	1S7:2				1S4		E
pqw5OAum	4- :1				1S2		E
pqw5OAum	4- :2				6		E
pe&e5Aum	a2:1	:SF10	:SF27	:SF14	:SF1a		I I b
pe&e5Aum	00:2	1F S	:SF7a	:SF7a	SF7a	744F50	I I b
pe&e5Aum	0a:2	SF5	:SF1-	SF62	SF1	21SF0S	I I b
pA&qn5	2a:1	SF5S	:SF12	SF5S	:SF54		I I b
pA&ger	1S0:1	SF51	SF51	SF51	SF51	40F74	I I b
pA&ger	1S :1	SF52	SF52	SF51	SF52	7SF4	I I b
pnOAum	27:2	F64	0F7S	F41	aF0a	14F0S	I I b
p&n5&Aum	a6:1	SF50	SF50	SF1S	SF5a	21F12	I I b
p&n5&Aum	aa:1	SF5	SF54	SF57	SF5-	- 1F S	I I b
pu&ur	74:1	:270SFaa	:22 6F54	:2S42F-	:2276F-S		I I b
i erbAum	1- :1				1S4		E
i erbAum	1- :2				1S7		E
i %w&Aum	2S7:1	SF54	SF56	SF56	SF5-	24F2-	I I b
i %w&Aum	2S- :1	SF5-	SF54	SF5-	SF5-	12F	I I b
i A5	11a:1	:SF57	SF5S	SF5S	:SF51		I I b
i A&w5Aum	40:1	:SF54	:SF5-	:SF52	:SF54		I I b
Rrw5Aum	27a:1	SF5S	SF5S	SF5S	SF5S	144F07	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l erw8ar9J	swl Pw8
Lwb9pwml &e9D 9J9	3B1-7 21BL	D5l &um5e&Nwme9J	3a
C8Ae5&pwml &e9D 9J9	3Bp 21	t A&u&Ah59Uwq8ar9J	1
t w&e9T9 Ame9cqduAeC9J	2S27:S0:1291-J7aJ1-	t w&WUA&e9Nwme9J	S62CCB. FO

3wrwme&er	y wl l	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&
Vw5wOAum	-1:2	SF5S1	SF5S2	SF5S1	SF5S1	41F10	l l b
Y&erbAum	102:1						ql l
Y&erbAum	102:2						ql l
Y&erbAum	106:1						ql l
Y&erbAum	106:2						ql l
Y&&Aum	a :1				1S1		E
Y&&Aum	a :2				1S4		E
ZA5q	66:2	:SF5S0	SF12	SF1S	SF5-	222F66	l l b
ZAqn5Aum	S:1	SF5S1	:SF5S1	:SF5S2	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S7	SF5SS	:SF5S1	:SF5S1		l l b

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Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 21	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1-a41a47	t w&WUA8 Juwb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	72F-2	7-F--	77F6S	77FN	4F-2	l l e
c5&b n5h	12191	7FS0	7F1S	7F17	7F1S	SF 1	l l e
cpl r 5Aq	0-92	1F01	1F00	1FN	1F0	-F12	l l e
BwpAmb	17-91	1-F 1	1-F6	1-F7S	1-F67	1F 6	l l e
BwpAmb	17091	1-F20	1-F2	1-F7	1-F72	SF4S	l l e
Br ph8Amb	91	1F66	1F-4	1F-N	1F-	4FS0	l l e
BAb m8%	2S 91				1S7		E
BAb m8%	2S 92				1S7		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1F77	1F-4	1F17	1F77	1-F67	l l e
CwCb Amb	1S691	92F74	94F74	92F71	97FSS		l l e
CwCb Amb	11191	1FNN	1F6-	1F61	1F02	NF--	l l e
Cw&pAmb	4791	00NF10	6 6F41	6 -F46	027F74	6F-6	l l e
Cw&pAmb	4491	0NNF66	0SSF-0	01NFN	076FS4	6F72	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&np5r	7-91						ql l
C%&np5r	7-92						ql l
C%pmb Amb	-292	7F76	7F40	7F16	7F77	4F0	l l e
Cnew&&	- 92	1F0S	1F0	1F6	1F07	7F2-	l l e
CnI l r p	6792	7F-7	7FN6	7F62	7F60	4F-0	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8&5Amb	16S91						ql l
GwOn8&5Amb	16S92						ql l
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S4		E
D5OAmb	11-91				1S2		E
D5OAmb	11-92				1S1		E
Dpn5	-492	722F---	776F0N	77SF 6	77SF1S	2F10	l l e
Dpn5	-692	777F62	742F10	771F4N	77-F06	1F6	l l e
Dpn5	-092	71 F1-	77-F 1	724F4N	726F-1	2F62	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F-0	1F-S	1F-7	1F-7	2F2-	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 21B:	D5l &pmb 5r &uwb r Ja	3N
C&A5&J wb l &JD JaJ	LC: 21	t A&m&A5JJwq&apJa	1
t w&JTJ A&r Jcqdm&r QJa	2S279S0912J1-a41a47	t w&wJA&JuwbrJa	S67LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-N	1F-S	1F-N	4F-	I l e
Lr wO	2SN91	1F67	1F-2	1F-S	1F-	4F20	I l e
LA&%Amb	691				4		E
y wM5r l Amb	2492	N-1F S	S6F5-	N6SFN-	N02F 7	7F77	I l e
y w5Mw5r l r	- - 92	1F64	1F04	1F62	1F60	7F S	I l e
y n8neOr 5mb	491	F22	NF6	NF1	NF0S	- F 6	I l e
y n8neOr 5mb	- 91	0FN7	0F1S	0F7S	0F41	- F5	I l e
y n8neOr 5mb	691	0F S	0F56	0F4N	0F4N	- F-0	I l e
y n8neOr 5mb	091	NF17	0F21	0F52	0F4-	0F -	I l e
y n8neOr 5mb	N91	0F67	0F22	0F2S	0F7-	7F7-	I l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1F 0	1FN2	1F 1	4F46	I l e
3 %nl l %npm	7192	914F-4	9-NF27	9-6FN7	947F2S		I l e
3 n&w l Amb	7 92	N11F17	N4NFS6	NS-F00	N21F6-	2FNS	I l e
v %nOAmb	1S791				1SS		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4-91				1S1		E
: qw5OAmb	4-92				0		E
: r 8 5Amb	N291	0F42	NF07	0F--	0F S	F1-	I l e
: r 8 5Amb	0092	NF12	1SF51	FN-	F77	11F24	I l e
: r 8 5Amb	0N92	0F4S	F52	0F 1	NF11	1SF2S	I l e
: A&qn5	2N91	1F77	SFN7	SF 4	1F57	2-F24	I l e
: A&gr p	1S091	1F60	1F-	1F-S	1F-	- F74	I l e
: A&gr p	1S 91	1F62	1F-6	1F6S	1F-	1FN-	I l e
: nOAmb	2792	N77F-	NN7FN-	N16F16	N44F-4	4F16	I l e
: &pn5&Amb	N691	1F60	1F-0	1F-7	1F-	4F-7	I l e
: &pn5&Amb	NN91	1F60	1F-4	1F-1	1F-0	- F21	I l e
: m&mp	7491	91266FSS	922N-F-	91 61F-0	91N70F02		I l e
i r peAmb	1- 91				1S4		E
i r peAmb	1- 92				1S2		E
i %w&Amb	2S791	1F-6	1F40	1F-S	1F-1	2F 0	I l e
i %w&Amb	2S-91	1F-0	1F-1	1F-6	1F-	2F50	I l e
i A5	11N91	SF5S	SF52	SF57	SF52	N2F4S	I l e
i A&w5Amb	4091	NF-4	0F7-	0F5N	0F66	1SF12	I l e
Rpw5Amb	27N91	1F-S	1F7-	1F70	1F41	- F0N	I l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 21B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 21	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J1-a41a47	t w&WJA8 Ju wb r Ja	S67LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF-N	NF4	NF-2	NF-7	SF-2	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S2		E
Y8&pAmb	N 92				1S1		E
ZA5q	6692	NF66	NFSN	NF4	NF41	7F-	l l e
ZAqn5Amb	S91	1F-4	1F4-	1F41	1F40	4F04	l l e
ZAqn5Amb	191	1F6	1F70	1F4N	1F-1	1SF-4	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 944946	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	1h26: F1S	1h- 0: F46	1hSh4F2S	1h244Fh2	SF04	I I b
c n&Amon%	12171	SF- 8	SF42	SF42	SF41	4F0:	I I b
c rsenAq	0: 72	18F0-	1hFS:	18F6:	18FB1	1F1-	I I b
BarAum	1- : 71	- : 1F6S	- 08F08	412F66	- 81FS1	8FS-	I I b
BarAum	1- 071	- 6: FB2	- 8SF66	410F0h	- 88FSh	6FhS	I I b
Ber%lAum	h71	1F16	1F28	1F- 0	1F20	8F. 4	I I b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F16	SF0:	SFh:	SFh:	21F68	I I b
RaOmAum	1S671	7- F28	74FS1	7SF01	72F60		I I b
RaOmAum	11171	SFB1	SF06	SFB:	SFB1	: F. 1	I I b
RalqAum	4- 71	- hS0SF08	42S- SFh1	4: - S1F01	421- 4F46	0F4S	I I b
RalqAum	4471	- h82hFB1	4- 164F00	46ShSFS0	4- S28F21	0F28	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	2- Fh1	22FBS	2- F11	2- F20	2F46	I I b
Robal&	: h72	1- F4S	1- F. :	1- F0h	1- F. 8	1F40	I I b
Rol I er	6- 72	- 2F. -	- 2Fh6	- 2F24	- 2F. 0	1F11	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S4		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	- 6126F1h	- 06S1Fh6	- 6242F1:	- 66: 6F00	2F24	I I b
Don	: 672	- 6: 00F0S	- 062hF- 6	- : h10FSS	- 60S8FS2	2F- :	I I b
Don	: 072	- 44S6F6:	- 4612F68	- 4146FB0	- 4- 88F0-	SF68	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	: 1F0:	: : F60	: hF0h	: : F04	0F21	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	4hFS6	: 2F62	: 6F0:	: 2FB1	0F2h	I I b
LeaO	2S871	: SF4-	: 4FS-	: 8F0-	: 4F4S	0F64	I I b
LA&EAum	671				1SS		G
MagnesAum	2472	1: 626F2:	1: 88: F46	1: h6- F21	1: 824Fh0	1F11	I I b
Manganese	: : 72	60- F06	682Fh1	66hF4-	60: F- 0	1FS2	I I b
Mol%bOenum	h471	4F0:	: F40	: F62	: F28	8F08	I I b
Mol%bOenum	h: 71	1F4h	1F6S	1FBS	1F6-	hF4h	I I b
Mol%bOenum	h671	1F00	2F1S	2F1:	2FS1	1SF42	I I b
Mol%bOenum	h071	1F. 1	1F66	1F66	1F61	: F- :	I I b
Mol%bOenum	h871	1F46	1F62	1FB6	1F6:	12FSh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	20F- 0	28FSS	20F- 1	20F. 6	1F- h	I I b
PEosI Eorus	- 172	1h8- F04	2Sh2F40	1hh0F- 0	2S24F. 2	2Fh-	I I b
Po&assAum	- h72	624hF21	62- 2FhS	6264F62	6248Fh1	SF2:	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S1		G
pqanOAum	4: 71				1Sh		G
pqanOAum	4: 72				h8		G
pelenAum	8271	SF- h	SF. 8	SFh4	SF64	44F1:	I I b
pelenAum	0072	2SF10	2: F4S	- : F. 2	20FS-	28FB8	I I b
pelenAum	0872	0F48	0F- S	4FB2	6F. -	22FB2	I I b
pAAqon	2871	21: FB1	2- 2F- S	2: 1F20	2- - F1-	0F61	I I b
pAver	1S071	SF- 1	SF24	SF20	SF28	1- F20	I I b
pAver	1Sh71	SF2h	SF2h	SF- :	SF- 1	11F00	I I b
poOAum	2- 72	4: 1FB8	40- F1h	466F1:	46- F04	2F- 4	I I b
p&ona&um	8671	- - 2F28	- 0- F- h	- 8- F1S	- 62Fh2	0F4-	I I b
p&ona&um	8871	- 41FS1	- 8SF1h	- 8hF- 0	- 0SF1h	6Fh4	I I b
pulfur	- 471	72S6hF- 0	7144hFB2	78S1F62	7144SF20		I I b
i erbAum	1: h71				112		G
i erbAum	1: h72				1S:		G
i EallAum	2S- 71	SF- 6	SF42	SF4S	SF4S	0F08	I I b
i EallAum	2S: 71	SF4S	SF4S	SF44	SF41	: FB4	I I b
i An	11871	1FS6	1F16	1F- -	1F1h	11F40	I I b
i A&anAum	4071	8hF28	h0FB-	1S1F- S	h6F14	6F4-	I I b
UranAum	2- 871	2FS0	2F1-	2F- 4	2F18	6F68	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 1:	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9449 46	t a&a. Ae Name 9	S64c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: : F- S	: : Fn:	: : F20	: : F. 1	SF68	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				11-		G
Y&&Aum	8h72				1S6		G
ZAnq	6672	168F0-	101FS1	164F. 8	168F11	1Fn4	l l b
ZAqonAum	hS71	2FS1	2F- h	2F44	2F28	1SF28	l l b
ZAqonAum	h171	2FS6	2F- 0	2F. -	2F- 2	1SF- S	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1624SF0-	1: 064FSS	1: 62: F00	1: 806F8-	2FS-	I I b
c n&Amonh	12171	SF= 4	SF4:	SF= %	SF= %	1- F2%	I I b
c rsenAq	0: 72	21F28	21F88	2SF4%	21F22	- F28	I I b
BarAum	1- : 71	- 16F2S	- 6- F6S	- 26F68	- - : F4%	0F42	I I b
BarAum	1- 071	- 18F. 4	- 64F8%	- - %F06	- 41FS0	6F8S	I I b
BerhlIAum	%71	1FS-	1F22	1FS2	1FS%	1SF6%	I I b
BAsmu&E	2S%71				1S-		G
BAsmu&E	2S%72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	SF0%	1FS2	SF04	SF8:	10F41	I I b
RaOmAum	1S671	72F%6	7SF2S	1FS4	7SF01		I I b
RaOmAum	11171	SF08	SF8:	SF06	SF8S	6F= -	I I b
RalqAum	4- 71	- 6S: %F64	4S248F= %	- 6002F8%	- 06% F64	: F%	I I b
RalqAum	4471	- 6: 80FS:	41%%%F1-	- 6%6%F0%	- 8: 18F66	0F84	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1%F: %	1%F: 0	1%F: 4	1%F: 0	SF1:	I I b
Robal&	: %72	12F08	12F%8	12F62	12F0%	1F= 8	I I b
RoI I er	6- 72	20F88	20F: 4	20F6-	20F68	SF6-	I I b
t hsI rosAum	1: 671						ql s
t hsI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1S:		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S-		G
DnOAum	11: 72				1SS		G
Don	: 472	- - : 01F01	- - 264F= 4	- 28: SF06	- - 228F%4	1FS%	I I b
Don	: 672	- - 1: 8F88	- 26%4F%	- 2: 04F24	- 28S%F= 6	SF%4	I I b
Don	: 072	- 1126F86	- 111- F41	- S1% F: %	- S811F28	1F04	I I b
Krhl &on	8- 71						ql s
LeaO	2S671	48F68	: 2F%d	: 1F= 2	: SF%0	4F2S	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	46F0%	: 1F86	4%F- %	4%F- :	: F14	I I b
LeaO	2S871	40F6%	: 2P%0	4%F- %	: SF52	: F- %	I I b
LA&EAum	671				%		G
MagnesAum	2472	122S2F02	1186- F4%	116- - F40	118%%F8%	2F41	I I b
Manganese	: : 72	6S8P%2	: %%P%6	: %6F24	6S1F01	1FS8	I I b
MolhbOenum	%471	4F66	: F- S	: FS-	: FSS	6F- 0	I I b
MolhbOenum	% 71	1F. 1	1F0-	1F6-	1F62	6F01	I I b
MolhbOenum	%671	1F88	2FS8	1P%6	1P%0	4P%4	I I b
MolhbOenum	%071	1F. -	1F82	1F. 8	1F64	%F64	I I b
MolhbOenum	%871	1F40	1F6%	1F. 6	1F. 0	6P%	I I b
NeoChmAum	1: S71						ql s
NeoChmAum	1: S72						ql s
NAqkel	6S72	20F41	26FS2	26F1S	26F. 1	2P%4	I I b
PEosI Eorus	- 172	148SF14	12%%F11	1- 0- F46	1- 84F24	6F. 0	I I b
Po&assAum	- %72	484: F22	460SF- 2	40- 0FS2	40: SF8:	1F86	I I b
5 EoOAum	1S- 71				1S-		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4: 71				1S-		G
pqanOAum	4: 72				%%		G
pelenAum	8271	SF00	SP%	SP%.	SF88	1SP%8	I I b
pelenAum	0072	28F80	- %F41	- 1F- 1	- - F1%	16F62	I I b
pelenAum	0872	0F18	: F14	: F40	: P%.	18F40	I I b
pAAqon	2871	224FS6	248F44	242F1-	2- 8F21	: F- 1	I I b
pAver	1S071	SF28	SF- 2	SF20	SF2%	%P%%	I I b
pAver	1S%71	SF- 1	SF- 4	SF- S	SF- 2	0F0S	I I b
poOAum	2- 72	442F4-	4- 2FS%	428F44	4- 4F- 2	1F60	I I b
p&on&Aum	8671	2%0F41	- 22FS0	- S- F64	- S0F01	4F10	I I b
p&on&Aum	8871	- S2F1-	- - 4F42	- 16FS0	- 10F. 4	: F1S	I I b
pulfur	- 471	71440F21	7- 0: F26	712: - F- 2	71S2: F26		I I b
i erbAum	1: %71				1S6		G
i erbAum	1: %72				1S4		G
i EallAum	2S- 71	SF- 1	SF- -	SF- 0	SF- 4	8F10	I I b
i EallAum	2S: 71	SF- -	SF- :	SF- :	SF- :	2F86	I I b
i An	11871	SP%1	1FS%	1F- 4	1F11	1%F18	I I b
i A&anAum	4071	06F- 0	8- FS8	0: F60	08F- 0	: F22	I I b
UranAum	2- 871	1F08	1P%8	1F80	1F88	: F- S	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 16	t Au&on . aq&or 9	1
t a&e T i Ane c qduAeO 9	2S2- 7S0712 1: 94094-	t a&a. Ae Name 9	S6: c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	: 172	: SF%	: 2F2:	: SF%0	: 1F- 8	1F46	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				1S0		G
Y&&Aum	8%72				1S6		G
ZAnq	6672	1- 0F88	1- SF4:	1- : F%%	1- 4F00	2F80	l l b
ZAqonAum	%S71	1F%%	2F2S	1F%	2FS:	6F: S	l l b
ZAqonAum	%171	1F%8	2F2S	1F88	2FS2	0F%4	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18h: - F- h	1818: F2:	10: 1SFh:	18216F. -	- Fh6	I I b
c n&Amon%	12171	SF- S	SF- 4	SF- 1	SF- 2	: F04	I I b
c rsenAq	0: 72	16F22	1: F26	1: F- 4	1: F61	- F41	I I b
BarAum	1- : 71	: 04F46	: 61F. :	: 6: F8h	: 60F- S	1F16	I I b
BarAum	1- 071	: 8hF. 1	: 0- F. S	: 6hF12	: 00F- 0	1F86	I I b
Ber%lAum	h71	: F1 S	4Fh2	4Fh:	4Fhh	1Fh2	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S:		G
BromAne	8171						ql s
RaOmAum	1S871	1F60	1F- 6	1FhS	1F64	16F4:	I I b
RaOmAum	1S671	: F20	6F- 4	- F. :	: FS:	20Fh-	I I b
RaOmAum	11171	1F4S	1F41	1F4-	1F41	1F1h	I I b
RalqAum	4- 71	12060F68	1- S00F80	120- 8F28	12861F28	1F46	I I b
RalqAum	4471	1- : 82F- h	1- 2: 6F6S	1- - : 1F. S	1- - h6F8-	1F2:	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- : 71						ql s
REIorAne	- : 72						ql s
REromAum	: 272	1: F2-	14Fh0	14F44	14F88	2F0S	I I b
Robal&	: h72	1- F. 8	1- F- S	12Fh4	1- F28	2F42	I I b
RoI I er	6- 72	2hF44	28FS:	20FS:	28F18	4F26	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				11S		G
y olmAum	16: 72				1S6		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1SS		G
Don	: 472	: 800hF- S	: 8668F- 2	: 4h21F2-	: 04: 6F28	- F82	I I b
Don	: 672	: hS6- F. 6	: 684hF. S	: : 1S: F- -	: 0SS6F1-	- F48	I I b
Don	: 072	6S64SFh:	: 68h8Fh:	: 6S- hF86	: 08: hFh2	4F2-	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	06FhS	0: F08	04F- 6	0: F68	1F68	I I b

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Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	02Fh0	02F01	0SF- S	02FSS	2FS4	I I b
LeaO	2S871	00F21	0: Fh-	04F86	06FSS	1F: :	I I b
LA&EAum	671				h0		G
MagnesAum	2472	: 08hF62	: 612F0S	: - hhF48	: 6SSF6S	- F4h	I I b
Manganese	: : 72	- : S8F4h	- 4- 4F44	- 206F48	- 4S6F40	- F48	I I b
Mol%bOenum	h471	4F60	4F02	4F64	4F68	SFh:	I I b
Mol%bOenum	h: 71	2F- 1	2F4S	2F21	2F- 1	4FS2	I I b
Mol%bOenum	h671	2F: 1	2F: :	2F46	2F: 1	1F8:	I I b
Mol%bOenum	h071	2F- 4	2F- h	2F2:	2F- -	- FSS	I I b
Mol%bOenum	h871	2F- 6	2F2-	2F1-	2F24	4Fhh	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	24F- h	2- F2-	22F46	2- F- 6	4F14	I I b
PEosI Eorus	- 172	1- : 0F2:	1- 88Fh4	1- 16F: 4	1- : 4F24	2F68	I I b
Po&assAum	- h72	h8- 6F40	h608F- 1	h16: F68	h: 6SF1:	- F60	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				hh		G
pelenAum	8271	2F0h	2F02	- FS1	2F84	: F28	I I b
pelenAum	0072	100F4-	101F- h	16: F: :	101F46	- F40	I I b
pelenAum	0872	- 2F64	- 6F88	- - F22	- 4F24	6F01	I I b
pAAqon	2871	2- : F- 0	2: SFh4	2- 6Fh:	241FSh	- F: :	I I b
pAver	1S071	SF2h	SF2h	SF26	SF28	6F6S	I I b
pAver	1Sh71	SF- S	SF- :	SF28	SF- 1	12F11	I I b
poOAum	2- 72	122Fh4	11- F84	1S: FS:	11- Fh:	0F8:	I I b
p&on&Aum	8671	0: F: 6	06F84	04F04	0: F01	1F4S	I I b
p&on&Aum	8871	82F11	0hFh8	00F61	0hFhS	2F82	I I b
pulfur	- 471	716- 6F64	71: 2hF1h	72SS- Fh6	7102- F26		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S6		G
i EallAum	2S- 71	SF: 1	SF: 1	SF48	SF: S	2F80	I I b
i EallAum	2S: 71	SF: -	SF: S	SF: 2	SF: 1	2F82	I I b
i An	11871	- F28	- F- :	- F1h	- F20	2F: 4	I I b
i A&anAum	4071	: 44F: S	: 60F- 4	: : SFh8	: : 4F20	2F12	I I b
UranAum	2- 871	4F- 0	4F- h	4F- :	4F- 0	SF: 1	I I b

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LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S-	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 10	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 S941	t a&a. Ae Name 9	S66c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	: 172	42F16	41F41	- 8F. 4	4SF0S	4F0S	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				14-		G
Y&&Aum	8h72				1- h		G
ZAnq	6672	- - hF4S	- - 1F11	- 22F- -	- - SFh:	2F. 8	I I b
ZAqonAum	hS71	1F6-	1F6:	1F60	1F6:	1F22	I I b
ZAqonAum	h171	1F64	1F. :	1F62	1F6S	- FS4	I I b

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LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RlAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	18: 08F28	18- : 2F- h	18284FSh	184S4Fh2	SFB4	I I b
c n&Amon%	12171	SF- S	SF2h	SF- 1	SF- S	- F- -	I I b
c rsenAq	0: 72	16FS0	16FS4	16F- 1	16F14	SFhS	I I b
BarAum	1- : 71	6S0F. 4	: h2F62	6S- F- :	6S1F10	1F28	I I b
BarAum	1- 071	612F60	6S8F18	6S0F02	6ShF. 2	SF4:	I I b
Ber%lAum	h71	: F11	4Fh6	: F10	: FS8	2F1:	I I b
BAsmu&E	2Sh71				1S0		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	1F- 1	1F42	1F- -	1F- 6	4F1:	I I b
RaOmAum	1S671	: Fh-	4F6S	6F12	: F. :	14Fh6	I I b
RaOmAum	11171	1F61	1F68	1F66	1F6:	2F42	I I b
RalqAum	4- 71	1- - S0F6:	1- 488F. h	1- 22- F- -	1- - - hFB6	1FS2	I I b
RalqAum	4471	1- 0h4F. S	1- 66: F2h	14SS4FS6	1- 821F28	1F24	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- : 71						ql s
RElorAne	- : 72						ql s
REromAum	: 272	14Fh8	1: F- 0	14FBS	1: FS:	1Fh1	I I b
Robal&	: h72	12Fhh	1- F1:	12FB0	1- FSS	1FS8	I I b
RoI I er	6- 72	20F- 0	20F12	20F1h	20F2-	SF48	I I b
t %sI rosAum	1: 671						ql s
t %sI rosAum	1: 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16: 71				1Sh		G
y olmAum	16: 72				1S8		G
DnOAum	11: 71				1S8		G
DnOAum	11: 72				1S-		G
Don	: 472	: 0: 4: F. :	: 88: 1F18	: h- 8SF- 6	: 8: h2F- 6	1F61	I I b
Don	: 672	: 8S1hF12	: 8h- : FSS	: 824hFh-	: 84S1F- :	SFB2	I I b
Don	: 072	: h664F1S	6SS- : FB:	: h6h6F24	: h0h8F0-	SF- 4	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	8SF- 6	0hFBS	08F- 2	0hF4h	1F- 2	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	06F81	04F22	04F40	0: F16	1FhS	I I b
LeaO	2S871	8SF26	08F11	08F: :	08Fh0	1F44	I I b
LA&EAum	671				h8		G
MagnesAum	2472	: - 8SF61	: - h0F62	: - 02FhS	: - 8- F01	SF24	I I b
Manganese	: : 72	- - 04F6h	- 461F- 6	- 4- SF28	- 422F11	1F28	I I b
Mol%bOenum	h471	6F- -	4F61	4Fh0	: F- S	10FS6	I I b
Mol%bOenum	h: 71	2F4S	2F- -	2F42	2F- 8	1F8:	I I b
Mol%bOenum	h671	2F: 0	2F6S	2F64	2F6S	1F2S	I I b
Mol%bOenum	h071	2F4h	2F- 6	2F2h	2F- 8	4F- 6	I I b
Mol%bOenum	h871	2F42	2F2h	2F- 6	2F- 6	2F6h	I I b
NeoO%mAum	1: S71						ql s
NeoO%mAum	1: S72						ql s
NAqkel	6S72	2- F16	2- F41	2- F1S	2- F2-	SF0S	I I b
PEosI Eorus	- 172	1- 2hF: 4	1144F: 1	12h8FS0	12: 0F- 0	0F80	I I b
Po&assAum	- h72	868- F- 6	80S0F- 6	86h: F10	86h: F- S	SF14	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4: 71				1S8		G
pqanOAum	4: 72				1S2		G
pelenAum	8271	- FS2	- F06	2F61	- F1-	18F04	I I b
pelenAum	0072	1: 8F82	1: 4F: 4	162F- 2	1: 8F: 6	2F46	I I b
pelenAum	0872	- SF86	- - F20	- 2F64	- 2F26	- F88	I I b
pAAqon	2871	264F1h	201F6S	260F4h	260F06	1F- h	I I b
pAver	1S071	SF- -	SF- 2	SF- 1	SF- 2	- F46	I I b
pAver	1Sh71	SF- :	SF- -	SF- 8	SF- :	6FhS	I I b
poOAum	2- 72	2S2F68	2S- F12	2SSF81	2S2F2S	SF61	I I b
p&ona&um	8671	8- F64	82F6h	81F00	82F0S	1F1-	I I b
p&ona&um	8871	80Fhh	84F06	84F44	8: F0-	2F2h	I I b
pulfur	- 471	72S1- F6S	72S1hF1h	72- 21F00	72118F1h		I I b
i erbAum	1: h71				1Sh		G
i erbAum	1: h72				1S8		G
i EallAum	2S- 71	SF: 6	SF: 8	SF: h	SF: 8	2F: 6	I I b
i EallAum	2S: 71	SF: h	SF: :	SF: 6	SF: 0	4FSh	I I b
i An	11871	: F2S	: FS-	: F- S	: F18	2F64	I I b
i A&anAum	4071	: h4F42	: h- F66	: 8- Fh2	: hSF60	SFhh	I I b
UranAum	2- 871	4F: :	4F42	4F4S	4F46	1F8-	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4407S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	My S. 18	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9 - 9 6	t a&a. Ae Name 9	S60c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	: 172	4SF. S	41F2:	- hF80	4SF. 4	1F0S	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				142		G
Y&&Aum	8h72				142		G
ZAnq	6672	- 4: F- 4	- - 8F. 2	- 44F- 4	- 42F04	1FS8	I I b
ZAqonAum	hS71	1F. h	1F. 8	1F62	1F6S	1F4h	I I b
ZAqonAum	h171	1F. 6	1F61	1F6S	1F. h	1F42	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1 4S8F S	1 - - F56	1 - 1- F4-	1 - 2F26	SF 2	I I b
c n&Amonh	12171	SF6	SF60	SF62	SF64	4F2S	I I b
c rsenAq	0 72	- %F1%	- %F 8	- %F58	- %F28	SF66	I I b
BarAum	1- 71	- 80F8-	4S- F0%	- %0F8-	- %6F48	2FS-	I I b
BarAum	1- 071	- 81F66	4S0F18	- %8F68	- % F84	- F28	I I b
BerhlIAum	%71	1F80	1F0%	1F04	1F8S	- F82	I I b
BAsmu&E	2S%71				111		G
BAsmu&E	2S%72				1S		G
BromAne	8171						ql s
RaOmAum	1S871	2F14	2F28	2F10	2F2S	- F 4	I I b
RaOmAum	1S671	7SF 1	71F42	71F88	71F2S		I I b
RaOmAum	11171	1F8%	1P%6	2F11	1P%%	F0S	I I b
RalqAum	4- 71	261% F2%	20444F24	260 FS2	260%8F18	2F -	I I b
RalqAum	4471	201S0F18	282S%F0-	206%2F60	2066%F86	1P%%	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 71						ql s
REIorAne	- 72						ql s
REromAum	272	2 F24	24F20	24F84	24F08	1P%	I I b
Robal&	%72	22FS1	21P%6	21F	21F84	1F16	I I b
RoI I er	6- 72	%2F6%	% F84	%2FS8	%2F80	SP%6	I I b
t hsI rosAum	1 671						ql s
t hsI rosAum	1 672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16 71				111		G
y olmAum	16 72				1S4		G
DnOAum	11 71				111		G
DnOAum	11 72				%%		G
Don	472	602- F 0	S1%F62	1%F60	0 4F22	1F 0	I I b
Don	672	88- F %F	80%P%8	4 - 2F 1	4- 1F8%	1F41	I I b
Don	072	6828F	6 86F26	6- 14F86	6 06F4%	SF4	I I b
Krhl &on	8- 71						ql s
LeaO	2S671	% F00	%4F 6	%6F18	% F S	SF8%	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69 -	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S071	%. P%0	%1P%.	%2FS8	%2F66	1F2-	I I b
LeaO	2S871	% F- 2	%. F66	%4F12	%4F- 0	SP%1	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1- 86%F86	1- 020F41	1- %. 6FS-	1- 844F44	SF00	I I b
Manganese	72	1 4SF-	1 S0P%S	1 1 P%6	1 21F4S	1F11	I I b
MolhbOenum	%471	0F12	0F62	0F 8	0F44	- F0	I I b
MolhbOenum	% 71	- F12	- F21	- F1	- F16	1F4%	I I b
MolhbOenum	%671	- F- S	- F0S	- F62	- F 4	P%.	I I b
MolhbOenum	%071	- F11	- F- S	- F1%	- F2S	2P%	I I b
MolhbOenum	%871	- F1-	- F22	- FS8	- F14	2F2	I I b
NeoChmAum	1 S71						ql s
NeoChmAum	1 S72						ql s
NAqkel	6S72	4 F0%	46F24	46FS6	46FS-	SF4%	I I b
PEosI Eorus	- 172	- - %P%4	- - 8FB6	- 6- 1FB1	- 1SF2S	- P%6	I I b
Po&assAum	- %72	0 84F 2	0 24F 1	00- %FB	0616F2%	1F46	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4 71				11S		G
pqanOAum	4 72				%8		G
pelenAum	8271	1F0-	1P%4	1FB8	1FB	F66	I I b
pelenAum	0072	SF 6	44F0-	- 6P%8	44FS%	1 F4	I I b
pelenAum	0872	8F2	1SF11	%F28	%F21	1SF11	I I b
pAAqon	2871	22%F41	24SP%4	2- P%4	2- F4-	2F4	I I b
pAver	1S071	SF 4	SF6S	SF 0	SF 0	4F 8	I I b
pAver	1S%71	SF	SF62	SF %	SF %	6F46	I I b
poOAum	2- 72	2- 8F48	228F- 1	222P%S	22%P%S	- F44	I I b
p&ona&um	8671	1 4FB4	16SF-	1 %F4	1 8F21	1FB0	I I b
p&ona&um	8871	162FB0	16 F6	16 FB4	164F0%	1FS1	I I b
pulfur	- 471	71- F16	7041F6-	71164P%0	71S80F2		I I b
i erbAum	1 %71				112		G
i erbAum	1 %72				1S4		G
i EallAum	2S- 71	SF4	SF4-	SF44	SF44	1F6-	I I b
i EallAum	2S 71	SF4S	SF46	SF42	SF4-	6F6%	I I b
i An	11871	1F 0	1F0-	1F6	1F6	4F64	I I b
i A&anAum	4071	1S0F14	11SFB8	1S0F0	1S8F %	1FB	I I b
UranAum	2- 871	2F 4	2F 4	2F 1	2F -	SF02	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 21	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:1 9 69-	t a&a. Ae:Name:9	S68c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	172	0SF- S	0SF2	0SFS0	0SF21	SF10	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8%71				116		G
Y&&Aum	8%72				111		G
ZAnq	6672	- 6- F- 8	- 61F10	- 6- F0S	- 62F0	SF- 8	I I b
ZAqonAum	%S71	2F64	2F6%	2F0S	2F68	1F1S	I I b
ZAqonAum	%171	2F 1	2F 6	2F02	2F6S	4F16	I I b

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Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y h SF22	&dPmTcm5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdPP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	11: - 4UN6	114NJU1N	11: 26UJ6	11: 10USS	SU21	DDe
q5Tb n5%	12171	SU60	SU60	SU64	SU66	- US4	DDe
qpwr 5cd	0: 72	44U0S	4- UJS	4: US-	44U4	1U1	DDe
Bspcmb	1- : 71	2J2U06	2N1US1	206U4-	2N- U4S	2UJ0	DDe
Bspcmb	1- 071	2JNUN-	20JU6-	2NSU2	2N6U-	- U0N	DDe
Br p%PPmb	J71	1U64	1U6S	1U2	1UJ	- U04	DDe
Bcvb mTE	2SJ71				1S0		G
Bcvb mTE	2SJ72				1S6		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	1U0	1UN2	2U2S	1UNS	22UJ:	DDe
v sob cmb	1S671	7SU4	SU2-	7SU24	7SU12		DDe
v sob cmb	11171	1U6N	1U06	1U60	1U0S	2UJ1	DDe
v sPdcmb	4- 71	- - S16U01	- S0- 6U41	- 126SU6:	- 1601U26	- U00	DDe
v sPdcmb	4471	- - JSSU0:	- 2- : 1U00	- 2S: 1U0N	- 206NU1S	- US-	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPmpc5r	- : 71						dDw
v EPmpc5r	- : 72						dDw
v Epmb cmb	: 272	1JU0-	1JUS:	1JU0	1JU4:	1UN1	DDe
v nesPT	: J72	2: UN2	2: U1S	2: U1:	2: U:	1UJ	DDe
v nDDr p	6- 72	N0U66	N4U6-	N6U2N	N6U1J	1U06	DDe
&%wDpnwcmb	1: 671						dDw
&%wDpnwcmb	1: 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16: 71				1S6		G
h nPb cmb	16: 72				1S6		G
t5ocmb	11: 71				1S4		G
t5ocmb	11: 72				1SS		G
tpn5	: 472	: 6621U6-	: - - 62U24	: 4- N: UJN	: 40NJUJ:	- US4	DDe
tpn5	: 672	: : S16U02	: 2N0: UJJ	: 41NSU2-	: 4S24U1	2USS	DDe
tpn5	: 072	: 0S: SU44	: - - 6: UJ:	: : S14U40	: : 14- U62	- UJ:	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	J: U0S	J1U2	J1U61	J2UNN	2U64	DDe

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LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9- S	&sTsFdP u sb r 9	S6JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JSU24	N0U1S	N0U0-	NNUJ6	1UWN	DDe
Lr so	2SN71	J- US6	NJU-6	NJUJ-	JSUW:	2U11	DDe
LdEcmb	671				J0		G
y sM5r wcmb	2472	1S104U4S	1S11SU21	1S1J0U4-	1S16SU6N	SU44	DDe
y s5Ms5r wr	: : 72	21SNUJN	2S4- UJJ	2SN2U10	2S00UJN	1U0	DDe
y nP%eor 5mb	J471	JU2S	JU1-	NUJ-	JUSN	1U6	DDe
y nP%eor 5mb	J: 71	4U6J	4UN	4U41	4U6	- U12	DDe
y nP%eor 5mb	J671	: U4-	: US:	: USN	: U1J	4US:	DDe
y nP%eor 5mb	J071	4U00	4U0S	4U6:	4U01	1U26	DDe
y nP%eor 5mb	JN71	4UWJ	4U66	4U-	4U0S	- UW0	DDe
u r no%b cmb	1: S71						dDw
u r no%b cmb	1: S72						dDw
u cdkr P	6S72	: - U40	: 2UJ4	: - U6	: - U-	SU6-	DDe
8 EnwDEnpmw	- 172	2- S4U1N	2- 6- U2J	22- 6UJ1	2- S1U46	2U0:	DDe
8 nTswwcmb	- J72	420- UJ	4S26U4	41J- U10	4164U44	- US-	DDe
CEnocmb	1S- 71				1S2		G
CEnocmb	1S- 72				1S-		G
I ds5ocmb	4: 71				1S4		G
I ds5ocmb	4: 72				JJ		G
I rP 5cmb	N271	2U22	1U04	2USJ	2US2	12U0	DDe
I rP 5cmb	0072	- 0U2N	41U01	40U2:	42USN	11UW6	DDe
I rP 5cmb	0N72	0UJ0	NU04	NU11	NU20	4UJJ	DDe
I dcdn5	2N71	1JSU1S	1N2US6	1N1UJJ	1N4U02	2U-	DDe
I dgr p	1S071	SU01	SU6-	SU66	SU60	: UW6	DDe
I dgr p	1SJ71	SU0S	SU0S	SU0S	SU0S	SU62	DDe
I nocmb	2- 72	201U46	202UJN	204UJ6	20- U1-	SU64	DDe
I Tpn5Tcmb	N671	1: NU:	1: 1US4	14JU21	1: 2UJ-	- U24	DDe
I Tpn5Tcmb	NN71	164UW:	16SUSS	1: 6UN	16SU4N	2UJ	DDe
I mPmp	- 471	NN12U06	001SU2-	N166U1N	N22JU0-	6U0-	DDe
Ar pecmb	1: J71				1SN		G
Ar pecmb	1: J72				1S-		G
AEsPmb	2S- 71	SUJN	SU4S	SUJJ	SUJJ	2UJN	DDe
AEsPmb	2S: 71	SU4S	SUJN	SUJ6	SUJN	: U2S	DDe
Ad5	11N71	1UWJ	1UW2	1U01	1UW1	: US-	DDe
AdS5cmb	4071	J- UWJ	N: U1-	NNUJJ	NJUJ4	4UJ1	DDe
Rps5cmb	2- N71	- US-	2UW:	2U0J	2UWJ	4U46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DP t& 9	3 - 4407S6	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DP t& 9	y h SF22	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9 J9-S	&sTsFdP u sb r 9	S6JqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCl &	R5dTw
Vs5soomb	: 172	62U-2	61U2N	61U-0	61U66	SUJ4	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				111		G
YTTpomb	NJ72				111		G
Zc5d	6672	2J6U4:	2JSUN4	2J- U-2	2J- U6S	SUJ6	DDe
Zqpdn5omb	JS71	- USJ	- USS	2UJ1	- USS	2UJS	DDe
Zqpdn5omb	J171	- U1S	2UJN	2UN2	2UJ6	4U00	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 4407S0	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	y0y9.S1	y06S.2S	yy11.4-	y92- .21	S.9S	ppm
Aotiu Ooh	12171	S.61	S.64	S.69	S.64	%0%	ppm
Aesboic	0%72	16.- S	1%21	1%Sy	1%%	4.29	ppm
BaeiNu	1- %71	29y.94	2yS.%6	290.02	29y.- 0	S.%1	ppm
BaeiNu	1- 071	2y- .00	2y%SS	2y1.y-	2y- .%0	S.%	ppm
BbehlliNu	y71	2.6S	2.6y	2.%4	2.61	2.yS	ppm
Bisu NtE	2Sy71				1S9		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	- .S2	- .S1	2.4-	2.92	11.y%	ppm
Uadu iNu	1S671	S.42	1.yS	- .%0	1.y6	9S.- 1	ppm
Uadu iNu	11171	1.4-	1.- y	1.- y	1.4S	1.0%	ppm
UalciNu	4- 71	2- - - S.1S	2296- .1-	2- 22%60	2- 1- y.6-	1.S6	ppm
UalciNu	4471	241- 2.y6	24- 02.- S	2- 010.yy	24S04.42	1.- 9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%272	14.S2	1- .9%	14.- %	14.S0	1.91	ppm
UOmalt	%y72	1S.- 4	1S.- S	1S.- 4	1S.- -	S.21	ppm
UOppbe	6- 72	29.S0	20.y%	29.44	29.1%	S.y2	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5 emiNu	16471						cps
5 emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				1S9		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				1S6		G
IodiNu	11%72				y9		G
IeOo	%472	26S2- .4y	26469.6-	20S- y.40	26%1S.%	1.y2	ppm
IeOo	%672	26226.y0	2614%1%	2%9S- .2y	26S%9.40	S.96	ppm
IeOo	%072	24%14.%2	244y6.41	246- y.96	24%%S.26	S.- 2	ppm
KehptOo	9- 71						cps
Lbad	2S671	y4.%2	y2.6%	yS.90	y2.69	1.y0	ppm

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Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	yS.y1	yS.49	90.14	9y.%1	2.- 1	ppm
Lbad	2S971	y2.S4	y1.91	9y.6S	y1.1%	1.49	ppm
LitEiNu	671				yy		G
g avobsiNu	2472	6292.y%	6- 64.y-	6619.6-	6422.10	2.0-	ppm
g aovaobsb	%%72	%40.4S	%%6S.y0	%%9.1-	%%2.10	S.yy	ppm
g OhmdboNu	y471	2- .1S	22.9-	22.2y	22.04	1.91	ppm
g OhmdboNu	y%71	1.- 4	1.42	1.- %	1.- 0	- .2%	ppm
g OhmdboNu	y671	- .%	- .%6	- .66	- .%9	1.y2	ppm
g OhmdboNu	y071	1.1%	1.- 0	1.4S	1.- 1	1S.%1	ppm
g OhmdboNu	y971	1.44	1.20	1.- %	1.- %	6.- 0	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	2S.19	2S.%	21.Sy	2S.6S	2.22	ppm
PEOspEOeNs	- 172	22S- .y9	2- 10.16	2- 60.%1	22y6.22	- .6%	ppm
POtassiNu	- y72	% 4- .yy	% S%- 1	% - S.4%	% 26.%9	S.- 0	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				1S9		G
r caodiNu	4%72				y0		G
r blboiNu	9271	1.S6	1.%6	1.2%	1.2y	1y.4-	ppm
r blboiNu	0072	%S.42	4S.- S	%2.1-	40.62	1- .4-	ppm
r blboiNu	0972	1S.44	9.9S	9.26	y.16	12.- 0	ppm
r ilicOo	2971	21- .Sy	2S6.94	21S.6%	21S.1y	1.%S	ppm
r ilRbe	1S071	S.%	S.%	S.%2	S.%	1.26	ppm
r ilRbe	1Sy71	S.6S	S.%6	S.%%	S.%0	4.04	ppm
r OdiNu	2- 72	1%0.%1	1%4.4S	162.%y	1%9.10	2.61	ppm
r teOotiNu	9671	112.24	1Sy.1%	1S0.91	1Sy.0-	2.S0	ppm
r teOotiNu	9971	110.%2	112.S4	114.- 1	114.62	2.4S	ppm
r NfNe	- 471	71- 24.%0	7149- .y0	711%9.%9	71- 22.- 0		ppm
TbemiNu	1%y71				1S6		G
TbemiNu	1%y72				1S-		G
TEalliNu	2S- 71	S.22	S.26	S.21	S.2-	12.S0	ppm
TEalliNu	2S%71	S.21	S.2-	S.2S	S.22	0.1S	ppm
Tio	11971	- .16	- .2%	- .4S	- .20	- .9S	ppm
TitaoiNu	4071	162.29	16S.2%	162.69	161.04	S.91	ppm
F eaoiNu	2- 971	2.0-	2.00	2.62	2.01	2.yy	ppm

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Ulibot r au plb ID :	g MSC2-	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:S2:29	DataCilb 8 au b :	S0SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%l72	- 9.66	- 9.- -	- y.%9	- 9.96	1.69	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	9y71				11-		G
YtteiNu	9y72				1Sy		G
Zioc	6672	220.91	229.y6	2- S.- 2	22y.S-	S.%%	ppm
ZieoCoiNu	yS71	12.- y	12.S2	11.y0	12.1-	1.96	ppm
ZieoCoiNu	y171	12.24	12.S6	11.02	12.S1	2.2S	ppm

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	2072	h0 2F41	h62SFh2	h0S2F4-	h0S1Fh2	SF -	l l b
cn&mon%	12171	SF61	SF6S	SF64	SF61	- F12	l l b
crwenAq	0J72	1JF2	1JFh0	1JF1h	1JF4	2F06	l l b
BsrAum	1- J71	2 - F62	26 F44	2 1F26	200F00	2Fh4	l l b
BsrAum	1- 071	2 4F 6	202FSS	2 4F00	2 SFJ4	2F64	l l b
Ber%BAum	h71	2FJJ	2F41	2FJS	2F4h	2FhS	l l b
BAumu&E	2Sh71				11S		G
BAumu&E	2Sh72				1SJ		G
BromAne	171						ql w
RsOmAum	1S 71	2F6J	2F2S	2FJ-	2F46	hFJ4	l l b
RsOmAum	1S671	1F1-	71F44	71F06	7SF6h		l l b
RsOmAum	11171	1F40	1F- 1	1F- J	1F-	JFh-	l l b
RsRqAum	4- 71	2- 1h- F00	221h4F00	2- 4SSF- J	22h2hF6-	2F 1	l l b
RsRqAum	4471	2- 0 F2-	2- 2S1F02	2- 12FJS	2- 6- SF 2	1FJ	l l b
Rsrbon	1271						ql w
Rsrbon	1272						ql w
REFrAne	- J71						ql w
REFrAne	- J72						ql w
REromAum	J272	14FS1	1- F0	1- F6-	1- F 1	1F4S	l l b
RobsR&	Jh72	1SFJ0	1SF1S	1SFJ6	1SF41	2FJ4	l l b
Rol l er	6- 72	2 F6-	2 F4S	2 F1J	2 F4S	SF J	l l b
t %wl rowAum	1J671						ql w
t %wl rowAum	1J672						ql w
CrbAum	16471						ql w
CrbAum	16472						ql w
HsOoFhAum	16S71						ql w
HsOoFhAum	16S72						ql w
y oFmAum	16J71				112		G
y oFmAum	16J72				1S6		G
DrOAum	11J71				11S		G
DrOAum	11J72				1SS		G
Don	J472	260 JFJ-	2014- FJh	26122Fh1	266 4FS1	1Fh4	l l b
Don	J672	26446F00	262- 1F40	26- 4JF60	26- 41F- S	SF41	l l b
Don	J072	24614F	24J64F6-	24- h1FJ1	24J2- F60	SF4	l l b
Kr%l &on	- 71						ql w
LesO	2S671	h- F62	hF4-	h2FJh	h1F	2F-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RAen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S071	0Fh2	6F12	hF2	0F00	1F 1	l l b
LesO	2S 71	hSF64	0F0h	hSF1h	hFJ4	1F02	l l b
LAEAum	671				1S1		G
MsgnewAum	2472	6- 00F 4	6- S2FS2	622JF- 2	6- S1F0-	1F21	l l b
Msngsnewe	JJ72	J62F1S	J4hF- 1	JJ2FSS	JJ4F40	1F22	l l b
MoP%bOenum	h471	22F- -	21F11	2- F1h	22F21	4F01	l l b
MoP%bOenum	hJ71	1F- J	1F- -	1F- J	1F- J	SF S	l l b
MoP%bOenum	h671	- FJh	- F-	- F 4	- F6S	6F-	l l b
MoP%bOenum	h071	1FJJ	1F- 2	1F4S	1F42	FS0	l l b
MoP%bOenum	h 71	1F44	1F- 0	1F- -	1F-	- Fh2	l l b
NeoO%mAum	1JS71						ql w
NeoO%mAum	1JS72						ql w
NAqkeP	6S72	2SF 6	2SF22	2SF- 4	2SF40	1F66	l l b
8 EowI Eoruw	- 172	220hF2	2- - SF41	22 6F2J	22h F6J	1F21	l l b
8 o&swwAum	- h72	J- 61F0h	J10JF- h	J2h F42	J20 FJ-	1F S	l l b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S4		G
pqsnOAum	4J71				1S		G
pqsnOAum	4J72				h		G
pe?enAum	271	1F10	SF 2	1F60	1F22	- JF14	l l b
pe?enAum	0072	4SF04	JhFSJ	4SFJ-	46F00	22F04	l l b
pe?enAum	0 72	6F 1	hFSJ	F2S	FS2	14FSh	l l b
pAqon	2 71	2S0F- 0	2SSF16	216Fhh	2S F1	4FS6	l l b
pAer	1S071	SFJS	SF4h	SFJ1	SFJS	2F10	l l b
pAer	1Sh71	SFJ2	SFJS	SFJ	SFJ-	0Fh	l l b
poOAum	2- 72	166F4	1J6F14	16- F6-	162FS	- F2h	l l b
p&on&Aum	671	1S F- 0	1S- F4	1S F6J	1S6F 4	2F02	l l b
p&on&Aum	71	111FhS	1ShF1h	11JF41	112F16	2F0	l l b
pufur	- 471	712- SF01	716- JF60	71SJ6FJ6	71- S0F6J		l l b
i erbAum	1Jh71				112		G
i erbAum	1Jh72				1S4		G
i EsPAum	2S- 71	SF2-	SF1h	SF2-	SF21	11F20	l l b
i EsPAum	2SJ71	SF22	SF22	SF2-	SF22	2F J	l l b
i An	11 71	- F10	2Fh0	- FS1	- FSJ	- F44	l l b
i A&snAum	4071	161F06	1J4F6h	1JhF60	1J F01	2F2h	l l b
UrsnAum	2- 71	2F6h	2F6S	2F0S	2F66	2F1h	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 4407S	Dw&umne&Nsme:9	8
RFen&psml Re:D :9	My S. 2- t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169SJ924	t s&s. Ae:Nsme:9	S01c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J172	- hFJ-	- F1-	- F11	- FJh	2F1S	l l b
Y&erbAum	10271						ql w
Y&erbAum	10272						ql w
Y&erbAum	10671						ql w
Y&erbAum	10672						ql w
Y&&Aum	h71				116		G
Y&&Aum	h72				11S		G
ZAnq	6672	226F- -	22hF01	224F6h	226Fh1	1F1-	l l b
ZAqonAum	hS71	12F21	11F01	12F26	12FS6	2FJ1	l l b
ZAqonAum	h171	12F 2	11FJJ	11Fh6	12F11	JF- J	l l b

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
ARminium	23O2	1J- 1.4J	1J74.2-	1969.72	1JJ7.OJ	- .9-	ppb
Antimony	1210 1	O.11	O.1-	O.14	O.1-	14.- 3	ppb
Arwenic	37O2	- .72	2.JJ	- .- 1	- .2-	1O.O9	ppb
Bsrium	1- 70 1	72.24	72.- 4	7- .JO	72.JO	1.67	ppb
Bsrium	1- 30 1	71.24	74.J9	7- .J9	7- .- 4	- .7-	ppb
BeryRRum	90 1	O.46	O.49	O.44	O.46	7.J6	ppb
Biwmuth	2O90 1				1O7		%
Biwmuth	2O9O2				1OO		%
Bromine	J10 1						cpw
Csdmium	1OJ0 1	O.7O	O.J2	O.7O	O.61	29.J9	ppb
Csdmium	1O60 1	0- .1J	0- .64	O2.13	0- .OO		ppb
Csdmium	111 0 1	O.2J	O.19	O.27	O.24	1J.- 1	ppb
CsRium	4- 0 1	4292.J4	4- 43.1O	4- 4J.32	4- 29.77	O.3-	ppb
CsRium	44 0 1	444- .69	4741.O1	4779.O9	4714.79	1.- 3	ppb
Csrbon	12 0 1						cpw
Csrbon	12O2						cpw
ChRrine	- 70 1						cpw
ChRrine	- 70 2						cpw
Chromium	72O2	2.64	2.32	- .O1	2.39	6.9O	ppb
CobsRR	79O2	1.9-	1.97	1.9J	1.97	1.4J	ppb
Copper	6- O2	7.42	7.4J	7.J3	7.79	4.47	ppb
Dywprowium	176 0 1						cpw
Dywprowium	176O2						cpw
Erbium	164 0 1						cpw
Erbium	164O2						cpw
GsdoRRnium	16O 0 1						cpw
GsdoRRnium	16O O2						cpw
HoRRnium	167 0 1				1O3		%
HoRRnium	167O2				1O1		%
Indium	117 0 1				1O6		%
Indium	117O2				96		%
Iron	74O2	4623.17	4311.O4	4937.1O	4331.1O	- .J1	ppb
Iron	76O2	4929.24	499J.OJ	7292.O6	7O3- .1-	- .JO	ppb
Iron	73O2	473- .J9	4631.33	4J9J.2J	4314.67	- .7-	ppb
Krypton	J- 0 1						cpw
Lesd	2O60 1	13.O3	13.6O	13.69	13.47	1.92	ppb

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Mswv	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Lesd	2O301	16.- 3	16.92	16.91	16.3-	1.J3	ppb
Lesd	2OJ01	16.9O	13.19	13.- 1	13.1-	1.2O	ppb
Lithium	601				97		%
Msgnewium	24O2	11J1.J1	1131.2-	129- .99	1217.6J	7.6O	ppb
Msngsnewe	77O2	1O4.O6	1O6.37	112.74	1O3.3J	4.O2	ppb
MoRybdenum	9401	4.4J	4.- 1	4.47	4.41	2.O6	ppb
MoRybdenum	9701	O.29	O.24	O.2J	O.23	J.73	ppb
MoRybdenum	9601	O.34	O.64	O.32	O.3O	3.J9	ppb
MoRybdenum	9301	O.2O	O.29	O.2J	O.26	13.J2	ppb
MoRybdenum	9J01	O.2J	O.29	O.24	O.23	1O.22	ppb
Neodymium	17O01						cpw
Neodymium	17O02						cpw
NickeP	6O02	- .J2	4.11	- .91	- .97	- .3O	ppb
8howphoruw	- 1O2	- J2.6-	- 47.- J	- 7- .O2	- 6O.- 4	7.46	ppb
8otswwium	- 9O2	994.7O	992.97	1O67.96	1O13.JO	4.1O	ppb
Rhodium	1O- 01				1O-		%
Rhodium	1O- 02				99		%
Scsndium	4701				1O-		%
Scsndium	47O2				94		%
SeRenium	J201	0O.1-	0O.7J	0O.- 2	0O.- 7		ppb
SeRenium	33O2	1- .- 9	11.9J	12.J6	12.34	7.7J	ppb
SeRenium	3JO2	1.- 6	2.O-	- .- J	2.26	47.6-	ppb
SiRcon	2J01	- J.67	- J.J2	4O.43	- 9.- 1	2.77	ppb
SiRver	1O301	O.11	O.11	O.1O	O.1O	2.22	ppb
SiRver	1O901	O.12	O.11	O.11	O.11	4.93	ppb
Sodium	2- O2	29.33	2J.3O	- 6.22	- 1.76	12.J9	ppb
Strontium	J601	2O.- -	21.27	21.29	2O.96	2.79	ppb
Strontium	JJ01	2O.- 6	2O.96	2O.J4	2O.32	1.7-	ppb
SuRfur	- 401	02OJ9.O6	02- 2O.O9	022J7.J9	022- 1.6J		ppb
Terbium	17901				1O3		%
Terbium	17902				1OO		%
ThsRium	2O- 01	O.O6	O.OJ	O.O3	O.O3	14.31	ppb
ThsRium	2O701	O.O7	O.O6	O.O7	O.O7	3.4J	ppb
Tin	11J01	O.7-	O.72	O.64	O.73	11.24	ppb
Titsnium	4301	29.4-	29.J6	29.91	29.34	O.JJ	ppb
Ursnium	2- J01	O.7O	O.72	O.72	O.71	2.39	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CIrent Ssmpre ID :	MHOF2- L	DiPtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	ConRep1	ConRep2	ConRep-	Avg. Conc.	ConcRSD	Unitw
Vsnsdium	71O2	3.44	3.44	3.J1	3.76	2.J4	ppb
Ytterbium	1320l						cpw
Ytterbium	1320l2						cpw
Ytterbium	1360l						cpw
Ytterbium	1360l2						cpw
Yttrium	J90l				1O6		%
Yttrium	J90l2				93		%
Zinc	660l2	44.43	4- .2O	46.46	44.31	- .6J	ppb
Zirconium	9O0l	2.- -	2.- 4	2.42	2.- 6	2.O7	ppb
Zirconium	910l	2.19	2.- 9	2.46	2.- 7	7.J3	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	11814F52	11 h F1S	118- 8F2h	1180SF4h	SF6h	I I b
c n&Amon%	12171	1 F6S	1 F10	1 F5S8	1 F28	1F46	I I b
c rsenAq	0h72	2- F88	24F8S	26F5S8	24F 2	4F4-	I I b
BarAum	1- h71	024F 4	01SF21	018F0S	010F h	1F5-	I I b
BarAum	1- 071	0 SF -	0h6F11	06 F16	002F50	2F28	I I b
Ber%lAum	71	1- Fh4	1- F4-	12F 4	1- F- 1	2F-	I I b
BAsmu&E	2S 71				11S		G
BAsmu&E	2S 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	11Fh	1SF4h	11F11	11F5h	hF10	I I b
RaOmAum	1S671	hF86	0F- 6	8F8-	0F- h	2SF22	I I b
RaOmAum	11171	11F00	11F62	11F64	11F68	SF0-	I I b
RalqAum	4- 71	264SSF64	26h22Fh1	2h12hF 6	26S16F- 0	2F 0	I I b
RalqAum	4471	20- 1hF0S	206 F h	2h646F64	26880F4-	4F5S6	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	h F 8	61F4S	6SF4	6SF62	1F1	I I b
Robal&	h 72	12- F- h	124F88	12- F01	12- F 8	SF64	I I b
RoI I er	6- 72	8hF4	86F68	80F54	86F41	SF 4	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16h71				1S8		G
y olmAum	16h72				1Sh		G
DnOAum	11h71				1S8		G
DnOAum	11h72						G
Don	h472	- S246Fh1	- S 14F86	- S 4SF 1	- S0SSF06	1F28	I I b
Don	h672	- S2- 1F12	- S2- 1F24	- Sh- SF18	- S- - SF8h	SFh0	I I b
Don	h072	28288Fh	28644F1h	2861SF5S8	28h14F28	SF6	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	1S6Fhh	1ShF42	1S- F11	1ShF52	1F60	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
LeaO	2S071	1S2F4-	F60	8F10	1SSFS	2F16	I I b
LeaO	2S871	1S- FnS	1S2F- 1	1S2F- 4	1S2F01	SF66	I I b
LA&EAum	671				0		G
MagnesAum	2472	0224Fh0	02hhFh	02 6FS2	02h8F0-	SF4	I I b
Manganese	hh72	0- F61	0h- F8	040F02	040FS0	SF 6	I I b
Mol%bOenum	471	24F 2	2hF41	2- F60	24F60	- F6h	I I b
Mol%bOenum	h71	1F48	1F- 6	1F41	1F42	4FS4	I I b
Mol%bOenum	671	- F86	- F 1	- F84	- F80	SF8	I I b
Mol%bOenum	071	1F48	1F- -	1F-	1F4S	hF46	I I b
Mol%bOenum	871	1F- h	1F41	1F4-	1F4S	- F12	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqkel	6S72	14- F- 4	144F4h	144F86	144F22	SFhh	I I b
PEosI Eorus	- 172	24- - F21	26S8F 4	2h28F22	2h2- F46	- F4	I I b
Po&assAum	- 72	6SS6F14	6100F60	6Sh- FS8	6S08F 0	1F46	I I b
5 EoOAum	1S- 71				1S0		G
5 EoOAum	1S- 72				1S-		G
pqanOAum	4h71				1S0		G
pqanOAum	4h72				0		G
pelenAum	8271	1 F 2	1 F04	18F06	1 F48	- F22	I I b
pelenAum	0072	0SF- S	08FS2	0SF0-	0- FS2	hF 4	I I b
pelenAum	0872	28F- 1	- - FSh	28FhS	2 F h	8F 6	I I b
pAAqon	2871	261FS0	2h1F -	2- hF0h	24 Fh8	hF14	I I b
pAver	1S071	FS4	8F86	8F0S	8F86	1F 2	I I b
pAver	1S 71	FS	8F88	FSS	8F	1F16	I I b
poOAum	2- 72	2- 6Fhh	2h2F6	2- SFh0	2- F 4	4F00	I I b
p&onA&um	8671	126FS	11 F1	121F82	122F- 0	2F84	I I b
p&onA&um	8871	1- 1F6S	128F- 2	12hF- S	128F4S	2F4h	I I b
pulfur	- 471	7 08FS-	71S- SF22	7142hF2S	71144F48		I I b
i erbAum	1h 71				11S		G
i erbAum	1h 72				1S4		G
i EallAum	2S- 71	8F8	8F61	8F46	8F6h	2F4	I I b
i EallAum	2Sh71	8F 0	8F81	8F64	8F81	1F86	I I b
i An	11871	4F14	4FS1	4F2S	4F12	2F4h	I I b
i A&anAum	4071	181F02	1 2F1-	10- F14	182F- -	hF22	I I b
UranAum	2- 871	- FS2	2F 4	2F 8	2F 8	1F42	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 4407S	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 2- p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- 7S0712:169119 22	t a&a. Ae:Name:9	S0- c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
VanaOAum	h172	1hhF88	1h0F	1h0F86	1h0F24	SF0h	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8 71				114		G
Y&&Aum	8 72				11S		G
ZAnq	6672	4h F61	401F60	408F11	46 F8S	2FSS	I I b
ZAqonAum	S71	14FS6	1- F4-	1- F1S	1- Fh-	- Fh0	I I b
ZAqonAum	171	14FS4	1- F 1	1- F- 4	1- F00	2F01	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	11yyh.- 2	1y0S2.hh	12S2h.yS	1- Sh0.20	10.- 2	ppm
Aotiu Oo%	12171	S.42	S.41	S.44	S.42	- .4y	ppm
Aeaboic	0y72	11.P-	16.PS	1- .y-	14.Sy	10.h0	ppm
BJeiNu	1- y71	2hh.2S	- S1.06	- S6.4h	- S2.4P	1.22	ppm
BJeiNu	1- 071	- S- .4y	- S- .2h	- S2.Sh	- S2.h4	S.2y	ppm
Bbe%wiNu	h71	- .4y	- .20	- .4-	- .- P	2.h0	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				h6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.P0	1.yP	1.hP	1.P1	11.6y	ppm
UJdu iNu	1S671	7S.12	S.10	1.PS	S.61	16P.Py	ppm
UJdu iNu	11171	1.S1	1.1-	1.S0	1.S0	y.06	ppm
UJwiNu	4- 71	12hP1.4P	1206S.4h	1- S1- .SP	12h1P.- y	1.S0	ppm
UJwiNu	4471	1- - y2.41	1- Sh- .4y	1- 40P.P2	1- - SP.2-	1.4P	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEWOeiob	- y71						cpa
UEWOeiob	- y72						cpa
UEeOu iNu	y272	16.h-	2- .- -	10.S4	1h.1S	1h.16	ppm
UOmJw	yh72	11.y4	1y.y4	12.S1	1- .S-	16.0h	ppm
UOppbe	6- 72	- - .SP	4- .0y	- 4.- 4	- 0.S6	1y.04	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOwoiNu	16S71						cpa
HJdOwoiNu	16S72						cpa
MOw iNu	16y71				111		G
MOw iNu	16y72				h6		G
IodiNu	11y71				1S0		G
IodiNu	11y72				h1		G
IeOo	y472	2h42- .42	- Py02.- 2	- S016.6S	- 2hS4.11	1y.Sy	ppm
IeOo	y672	2h1- 0.02	- h2P4.64	2hP- 0.61	- 20y- .- 2	10.- S	ppm
IeOo	y072	201yy.6h	- 6122.h0	2PSS4.6S	- S420.0y	16.20	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	P0.y2	Ph.Py	P4.y-	P0.- S	- .Sy	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	P4.y6	P4.P1	PS.00	P- .- P	2.02	ppm
LbJd	2SP71	Py.02	P0.- -	P2.Ph	Py.- 2	2.6-	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	y- P- .- y	0- 4y.2P	y640.06	612y.40	10.- P	ppm
g JovJobab	yy72	yyh.60	04y.y-	y0h.14	62P.11	16.26	ppm
g O%mdboNu	h471	14.6S	14.- h	14.y0	14.y2	S.0h	ppm
g O%mdboNu	hy71	S.h6	1.S1	1.S1	1.SS	- .S4	ppm
g O%mdboNu	h671	2.4y	2.y6	2.44	2.4P	2.6h	ppm
g O%mdboNu	h071	S.hh	1.S6	1.SP	1.S4	4.4-	ppm
g O%mdboNu	hP71	S.hh	1.SP	1.S2	1.S-	4.0-	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	2S.- P	2P.46	21.h4	2- .yh	1P.10	ppm
I EOapEOeNa	- 172	1624.Py	21- 6.2y	14P0.12	104h.41	1h.yy	ppm
I OtJaaiNu	- h72	4S14.46	y- 16.2S	4SP4.6-	4401.06	16.- 0	ppm
n EOdiNu	1S- 71				1SP		G
n EOdiNu	1S- 72				hy		G
r cJodiNu	4y71				1SP		G
r cJodiNu	4y72				Ph		G
r bwboiNu	P271	1.4P	1.12	1.12	1.24	16.P1	ppm
r bwboiNu	0072	40.yh	0h.- 1	62.h2	6- .20	2y.S0	ppm
r bwboiNu	0P72	1S.6P	10.42	11.1y	1- .SP	2P.0-	ppm
r iwcOo	2P71	1h0.yy	1hy.h4	1h0.- -	1h6.h4	S.44	ppm
r iwRbe	1S071	S.62	S.66	S.62	S.6-	- .- h	ppm
r iwRbe	1Sh71	S.64	S.60	S.6P	S.60	- .Sh	ppm
r OdiNu	2- 72	1y- .66	2- 0.yh	16- .0-	1P4.hh	24.00	ppm
r teOotiNu	P671	11- .60	116.y2	116.0h	11y.66	1.yS	ppm
r teOotiNu	PP71	11h.66	12y.S2	12- .S2	122.y0	2.21	ppm
r NwNe	- 471	721S6.40	722yS.1y	72SyP.y4	721- P.- h		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				h6		G
TEJwiNu	2S- 71	S.- 1	S.- 6	S.20	S.- 1	1- .hh	ppm
TEJwiNu	2Sy71	S.- 2	S.- -	S.2h	S.- 1	y.06	ppm
Tio	11P71	4.- -	4.- h	4.yy	4.42	2.yy	ppm
TitJoiNu	4071	1y2.4h	140.46	1yS.04	1yS.2-	1.0S	ppm
F eJoiNu	2- P71	- .- 1	- .41	- .24	- .- 2	2.yP	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC24	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:14:2S	DJtJCiwb 8 Ju b :	S04An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- P.- 2	yS.yh	- P.0-	42.yy	16.- h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				114		G
YtteiNu	Ph72				1S-		G
Zioc	6672	1h1.Sy	26y.- 1	2S- .h4	22S.1S	1P.S-	ppm
ZiecOoiNu	hS71	0.hS	0.Ph	0.P2	0.P0	S.y4	ppm
ZiecOoiNu	h171	0.6P	P.S2	0.yy	0.0y	- .12	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
AwNu ioiNu	2072	121SPFn4	110PhF42	11h14F26	11h- 0Fn4	1F- n	ppm
Aotiu Oo%	12171	1F1-	SFnS	1FS1	1FS1	11Fnh	ppm
Aeaboic	0n72	1- FS6	12F1h	12F- 1	12Fn2	- F0n	ppm
BJeiNu	1- n71	- 66FP2	- S4Fn0	- SSFPP	- 24F22	11F4S	ppm
BJeiNu	1- 071	- 0SFPh	- S2F0P	- SSFn-	- 24FP0	12F20	ppm
Bbe%wiNu	h71	1F64	1F44	1F- -	1F40	1SF6S	ppm
Biau NtE	2Sh71				hP		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
RJdu iNu	1SP71	2Fn6	2F1h	- F20	2FP1	1hFPn	ppm
RJdu iNu	1S671	SF0h	7SF16	72FSP	7SF4P		ppm
RJdu iNu	11171	- FSh	2F60	2F4-	2F0-	12F2h	ppm
RJwciNu	4- 71	12664FS4	1Sn62FnS	hP41F61	11S22F02	1- F- S	ppm
RJwciNu	4471	1- S42F06	11SS- F62	1S2S6Fh2	11410F00	12FP1	ppm
RJemOo	1271						cpa
RJemOo	1272						cpa
REWOeiob	- n71						cpa
REWOeiob	- n72						cpa
REeOu iNu	n272	2PF1-	20F- h	20F44	20F66	1FnS	ppm
ROmJwv	nh72	PF6h	PFnP	PFnn	PF61	SFP-	ppm
ROppbe	6- 72	41FSP	- hF6S	- hFPh	4SF1h	1Fn6	ppm
D%apeOaiNu	1n671						cpa
D%apeOaiNu	1n672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
y Ow iNu	16n71				h0		G
y Ow iNu	16n72				1S6		G
IodiNu	11n71				h0		G
IodiNu	11n72				hh		G
IeOo	n472	2n004F2n	2n20nFSS	24PPSFhn	2n- 1SFS0	1F00	ppm
IeOo	n672	2n162F60	24n24F02	241S6FP0	24nhPFSh	2F16	ppm
IeOo	n072	2- Sh1F06	22h- 0F- S	2260SF- 0	22PhhFP1	SFn-	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	21PF41	104F2P	16hF60	1P0F4n	14F- 6	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
LbJd	2S071	211F1P	160F61	16- Fn6	1PSF0P	14F61	ppm
LbJd	2SP71	222FPP	1PSF4P	102Fn4	1h2F1S	14FS1	ppm
LitEiNu	671				hS		G
MJgobaiNu	2472	- 2- - Fnh	- 1- 6F04	- 16nF4h	- 10PF04	1Fn0	ppm
MJogJobab	nn72	0nnFn4	040FPn	042F1P	04PF66	SFn2	ppm
MO%mdboNu	h471	nF0S	4FPP	4F46	nFS1	12F6S	ppm
MO%mdboNu	hn71	1FP0	1F01	1F4P	1F6h	11F4-	ppm
MO%mdboNu	h671	2F24	1Fn0	1Fn4	2FSn	PF24	ppm
MO%mdboNu	h071	2F11	1F64	1F6P	1FP1	14F- h	ppm
MO%mdboNu	hP71	1FPh	1Fn4	1Fn6	1F66	11Fn0	ppm
8 bOd%u iNu	1nS71						cpa
8 bOd%u iNu	1nS72						cpa
8 ickbw	6S72	16FPS	16F2S	1nFn-	16F1P	- Fn-	ppm
I EOapEOeNa	- 172	2- - - F42	224PF24	22S6FnP	2262F04	2FP6	ppm
I OtJaaiNu	- h72	41hPFn6	41- 4F- 1	4120FS4	41n- F- S	SFnn	ppm
5 EOdiNu	1S- 71				h6		G
5 EOdiNu	1S- 72				1S4		G
r cJodiNu	4n71				hn		G
r cJodiNu	4n72				hn		G
r bwboiNu	P271	1F2S	SFn0	SFP1	SFnh	1hF0P	ppm
r bwboiNu	0072	- PF2n	24FP1	4- F04	- nF6S	20F- n	ppm
r bwboiNu	0P72	6FP-	nF20	0Fn4	6Fnn	10F0-	ppm
r iwcOo	2P71	1hSF- n	1n6F60	140F- S	164F00	1- F04	ppm
r iwbe	1S071	2F0-	2F2P	2F10	2F- h	12F- S	ppm
r iwbe	1Sh71	2F66	2F2-	2F2h	2F- h	hF6S	ppm
r OdiNu	2- 72	144F4n	1- 4FS0	142Fnn	14SF4h	- Fnh	ppm
r teOotiNu	P671	1nPFP1	12PF42	12nF0n	1- 0F66	1- F- 4	ppm
r teOotiNu	PP71	102F2S	1- 4F20	1- SF46	14nF64	1nFPn	ppm
r NwNe	- 471	hn1Fnn	71S- nFn4	710S- FSn	7nhnF6P		ppm
TbemiNu	1nh71				hP		G
TbemiNu	1nh72				1S4		G
TEJwiNu	2S- 71	SF- 1	SF20	SF20	SF2P	hF62	ppm
TEJwiNu	2Sn71	SF- S	SF22	SF2n	SF26	1nF62	ppm
Tio	11P71	0F0n	6F- 2	6F12	6F0-	1- F2n	ppm
TitJoiNu	4071	2S- FPP	160F6n	1n4FP-	10nF4n	14FnS	ppm
UeJoiNu	2- P71	2FnS	2F- S	2F2-	2F40	14F0h	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440711	IoateNu obt 8 Ju b :	I P
Rwibot r Ju pwb ID :	My S. 2n	DiwNtiOo . JctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:10:26	DJtJ. iwb 8 Ju b :	S0nA5 C. Fd

I JeJu btbe	MJaa	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgFROocF	ROoc5 r D	Uoita
VJoJdiNu	n172	4nF06	44F4n	4nF41	4nF21	1F4h	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				1S1		G
YtteiNu	Ph72				1S4		G
Zioc	6672	- nPf64	- nnF40	- n- FP1	- nnFh0	SF6h	ppm
ZieccOoiNu	hS71	2F- P	1Fnh	1FP-	2FS0	1- Fh1	ppm
ZieccOoiNu	h171	2FnP	1FPh	1FP0	2F11	1hFSS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
c lumAnAum	2072	1S148F89	h8hhF9S	h94SFh0	h86- F11	- F1S	I I b
c n&Amon%	12171	SF99	SF94	SF92	SF9-	2F02	I I b
c rsenAq	0972	11FS4	1SFh0	1SFS8	1SF0S	9FS-	I I b
BarAum	1- 971	22- F- 1	21- F28	221F9S	21hF- 6	2F44	I I b
BarAum	1- 071	22SF- 6	211Fh-	22- F99	218F61	2F09	I I b
Ber%lAum	h71	1FS2	1FS0	1F11	1FS0	4F1h	I I b
BAsmu&E	2Sh71				1S8		G
BAsmu&E	2Sh72				1S4		G
BromAne	8171						ql s
RaOmAum	1S871	1F09	1Fh6	2F09	2F19	24F- 2	I I b
RaOmAum	1S671	72F6S	72F62	7SF1h	71FBS		I I b
RaOmAum	11171	2F41	2FS2	2F20	2F2-	8FB9	I I b
RalqAum	4- 71	6242Fh0	6111F68	6100F02	6100F46	1FS6	I I b
RalqAum	4471	6664F92	64- 6FS0	6444F2h	6914Fh6	1Fhh	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- 971						ql s
RElorAne	- 972						ql s
REromAum	9272	2- F4h	22Fh2	22F6h	2- FS-	1F08	I I b
Robal&	9h72	0F40	0F19	0FS0	0F2-	2Fh-	I I b
RoI I er	6- 72	2hFBh	2hF44	28F0-	2hF- 9	2FSS	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				1S6		G
y olmAum	16972				1S4		G
DnOAum	11971				1S6		G
DnOAum	11972				h8		G
Don	9472	18h1hF28	10h26F60	10646FS0	18164FS1	- F68	I I b
Don	9672	1h842FB6	1h911F4S	1882hFS2	1h- h4F42	2F60	I I b
Don	9072	18- 89F6S	1816SFS-	10410F21	10h80F61	2FB2	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	194F99	14hFS2	19- FB8	192F4h	1Fh8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	148F- 6	149FS9	140F29	146F8h	1F14	l l b
LeaO	2S871	161F- 4	196FS0	198F99	198F69	1F66	l l b
LA&EAum	671				h8		G
MagnesAum	2472	224hF6S	22S1F42	2Sh0F4S	2182F81	- F96	l l b
Manganese	9972	0hSF62	06- F46	049F1-	066F4S	2Fnh	l l b
Mol%bOenum	h471	- F42	- F44	- F4h	- F49	SFn8	l l b
Mol%bOenum	h971	SFnh	1FSS	1FS9	1FS1	- F1-	l l b
Mol%bOenum	h671	1F18	1F20	1F- S	1F29	4Fnh	l l b
Mol%bOenum	h071	1FS9	SFn1	SFn4	SFn0	0F08	l l b
Mol%bOenum	h871	SFnh	SF88	SFn4	SFn4	9F96	l l b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	16FS2	19F- 4	19F26	19F94	2F0S	l l b
PEosI Eorus	- 172	1- h0F94	1289F90	1189FnS	128hF60	8F21	l l b
Po&assAum	- h72	2994F04	2918F91	2- 0hF06	2484F- 4	- F02	l l b
5 EoOAum	1S- 71				1S4		G
5 EoOAum	1S- 72				1S4		G
pqanOAum	4971				1S9		G
pqanOAum	4972				h9		G
pelenAum	8271	SF6S	SFnh	SF01	SF06	26F9S	l l b
pelenAum	0072	- 4F42	- 0F41	22F40	- 1F4-	29F19	l l b
pelenAum	0872	- Fn9	9F46	4F- 2	4F98	10F2S	l l b
pAAqon	2871	2ShF91	2S2F89	2S0F16	2S6F9S	1F64	l l b
pAver	1S071	1F89	1F88	1Fn6	1FnS	- FSS	l l b
pAver	1Sh71	1Fn0	1Fn-	2FS-	1Fn0	2F40	l l b
poOAum	2- 72	1h6F66	18hF68	182FSh	18hF48	- F84	l l b
p&on&Aum	8671	86F88	86F89	88F98	80F44	1F1-	l l b
p&on&Aum	8871	80Fn9	89F4-	80F98	86Fnh	1F96	l l b
pulfur	- 471	72298F- 0	720h2F9S	72409F89	729S8FnS		l l b
i erbAum	19h71				1S6		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF1h	SF2S	SF22	SF2S	8F10	l l b
i EallAum	2S971	SF18	SF1h	SF18	SF1h	- F9-	l l b
i An	11871	4FS9	- Fn9	4FS6	4FS2	1F94	l l b
i A&anAum	4071	1S1F9S	1SSF14	1S2F80	1S1F9S	1F- 4	l l b
UranAum	2- 871	1F09	1F01	1F0-	1F0-	1F24	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 440712	Dns&umne&Name :	P8
RIAen&pamI le D) :	My S. 26	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2S:29	t a&a. Ae Name :	S06c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
VanaOAum	9172	- 0F14	- 4F96	- - FhS	- 9F2S	4F86	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				1S0		G
Y&&Aum	8h72				1S1		G
ZAnq	6672	284F10	206Fh9	20SF91	200F21	2F40	l l b
ZAqonAum	hS71	1F44	1F49	1F46	1F49	SF9-	l l b
ZAqonAum	h171	1F9-	1F94	1F42	1F4h	4F49	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1S161.- -	1S1yS.0P	1S214.Sy	1S1PP.0-	S.26	ppm
Aotiu Ooh	12171	S.4-	S.4%	S.4S	S.4-	6.6y	ppm
Aeaboic	0%72	P.P6	y.46	P.y1	y.SP	- .6P	ppm
BJeiNu	1- %71	240.- 2	242.S6	216.0P	2- %- y	6.y4	ppm
BJeiNu	1- 071	2%S.01	242.0y	222.1S	2- P.%	6.1y	ppm
BbehwiNu	y71	1.1P	1.16	1.S%	1.1-	%y1	ppm
Biau NtE	2Sy71				11%		G
Biau NtE	2Sy72				1S%		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.6y	2.S4	1.20	1.60	22.y6	ppm
UJdu iNu	1S671	71.4y	7- .01	72.12	72.44		ppm
UJdu iNu	11171	1.62	1.%P	1.%2	1.%0	- .S1	ppm
UJwiNu	4- 71	2141%2-	2124P.%0	1P%2P.22	2S- y0.- 4	0.y%	ppm
UJwiNu	4471	22S02.yS	221y%41	1ySPS.PP	21116.4S	P.- %	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- %71						cpa
UEwOeiob	- %72						cpa
UEeOu iNu	%272	2- .1y	2- .11	2- .y4	2- .42	1.y0	ppm
UOmJwv	%y72	P.1S	P.2-	P.12	P.1%	S.PP	ppm
UOppbe	6- 72	2y.22	2y.PS	- S.1%	2y.02	1.%P	ppm
DhapeOaiNu	1%671						cpa
DhapeOaiNu	1%672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiioiNu	16S71						cpa
HJdOiioiNu	16S72						cpa
MOw iNu	16%71				116		G
MOw iNu	16%72				1S4		G
IodiNu	11%71				11%		G
IodiNu	11%72				yy		G
IeOo	%472	1yy44.6y	1yPP1.S6	2S4- 6.- %	2SSP0.- 0	1.%l	ppm
IeOo	%672	1y024.y4	1y%%P.- 0	2SS%%10	1y00y.4y	1.2P	ppm
IeOo	%072	1P610.06	1P4%2.y2	1P060.0%	1P612.P1	S.P%	ppm
KehptOo	P- 71						cpa
LbJd	2S671	04.0%	02.1P	66.12	01.S1	6.24	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	02.14	6y.%l	62.- -	60.yy	0.40	ppm
LbJd	2SP71	0- .62	0S.4y	64.2-	6y.4%	6.PP	ppm
LitEiNu	671				1S1		G
g JvobaiNu	2472	%06- .Sy	%Py1.PS	%P0P.- %	%P44.41	1.21	ppm
g JovJobab	%%72	420.21	42y.20	4- 2.%l	42y.66	S.62	ppm
g OwmdboNu	y471	4.46	4.- 0	4.S4	4.2y	%SP	ppm
g OwmdboNu	y%71	S.yS	S.PP	S.06	S.P%	P.01	ppm
g OwmdboNu	y671	1.- -	1.20	1.S4	1.21	12.4-	ppm
g OwmdboNu	y071	S.yP	S.y2	S.0%	S.PP	1- .- 0	ppm
g OwmdboNu	yP71	S.P6	S.P4	S.0P	S.P-	4.P%	ppm
8 bOdhu iNu	1%S71						cpa
8 bOdhu iNu	1%S72						cpa
8 ickbw	6S72	16.P0	16.P2	10.%	10.S0	2.- 1	ppm
I EOapEOeNa	- 172	2%6.P1	2600.- -	24y2.y1	2%6y.S2	- .0%	ppm
I OtJaaiNu	- y72	%2S0.62	%14y.- 0	%2PS.y4	%212.64	1.26	ppm
n EOdiNu	1S- 71				112		G
n EOdiNu	1S- 72				1S4		G
r cJodiNu	4%71				112		G
r cJodiNu	4%72				y6		G
r bwboiNu	P271	S.PP	S.%6	1.14	S.P6	- 4.20	ppm
r bwboiNu	0072	1y.- 2	20.1-	- 1.6S	26.S1	2- .Py	ppm
r bwboiNu	0P72	6.P1	6.2S	0.S-	6.6P	6.- y	ppm
r iwcOo	2P71	14P.11	146.%P	126.- -	14S.- 4	P.66	ppm
r iwRbe	1S071	S.4y	S.4-	S.44	S.46	0.42	ppm
r iwRbe	1Sy71	S.4P	S.46	S.44	S.46	4.- 4	ppm
r OdiNu	2- 72	1%P.04	1%.0%	1%4.4S	1%%6-	1.0%	ppm
r teOotiNu	P671	22S.6P	22S.yy	1Py.11	21S.26	P.01	ppm
r teOotiNu	PP71	2- - .2S	226.%y	1y6.42	21P.0-	P.y6	ppm
r NwNe	- 471	71Py6.- 2	71P00.1-	720y4.%2	721Py.- -		ppm
TbemiNu	1%y71				11%		G
TbemiNu	1%y72				1S4		G
TEJwiNu	2S- 71	S.2%	S.21	S.1y	S.21	1%Sy	ppm
TEJwiNu	2S%71	S.24	S.21	S.10	S.21	16.4-	ppm
Tio	11P71	2.%2	2.4P	2.1P	2.- y	0.y1	ppm
TitJoiNu	4071	1S0.04	1Sy.%	y0.%S	1S4.y-	6.1y	ppm
F eJoiNu	2- P71	2.22	2.16	1.y6	2.12	6.4S	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44071-	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- 0	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:2- :22	DJtJCiwb 8 Ju b :	S00An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	%172	- S.y6	- 2.11	- 2.1y	- 1.0%	2.1P	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				116		G
YtteiNu	Py72				1S4		G
Zioc	6672	102.06	10P.- 4	10P.yP	106.6y	1.y4	ppm
ZiecOoiNu	yS71	2.1P	2.2S	1.P4	2.S0	y.00	ppm
ZiecOoiNu	y171	2.12	2.S6	1.y0	2.S%	- .%6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	112- S.Py	h6SS.2P	hh61.yP	1S264.24	P.- 4	ppm
Aotiu Oo%	12171	S.- h	S.- -	S.42	S.- P	11.P1	ppm
Aeaboic	0y72	11.- 0	h.y6	h.P-	1S.2y	h.yS	ppm
BJeiNu	1- y71	2- P.1-	2- P.- P	246.yh	241.S-	2.SS	ppm
BJeiNu	1- 071	244.00	2- P.hS	246.- 2	24- .- -	1.61	ppm
Bbe%wiNu	h71	1.16	1.1P	1.11	1.1y	- .1-	ppm
Biau NtE	2Sh71				1Sh		G
Biau NtE	2Sh72				1S-		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	1.y-	1.h-	1.2P	1.yP	2S.hS	ppm
UJdu iNu	1S671	S.1-	7- .- h	72.60	71.hP		ppm
UJdu iNu	11171	1.- 1	1.20	1.41	1.- -	y.2y	ppm
UJwiNu	4- 71	2S0hh.6P	2S444.y4	2Sh04.- S	2S0- h.y1	1.- S	ppm
UJwiNu	4471	212yP.14	2ShSS.04	21y01.1S	2124- .- -	1.yP	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEWOaiob	- y71						cpa
UEWOaiob	- y72						cpa
UEeOu iNu	y272	21.14	1P.1y	1P.02	1h.- 4	P.2-	ppm
UOmJw	yh72	P.4P	0.64	0.yh	0.hS	6.- 2	ppm
UOppbe	6- 72	26.6P	22.6-	2- .2S	24.10	h.S6	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiioiNu	16S71						cpa
HJdOiioiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S2		G
IodiNu	11y71				1SP		G
IodiNu	11y72				h6		G
IeOo	y472	2S- y- .6h	1021P.h0	104y- .44	1P- 42.S-	h.y2	ppm
IeOo	y672	2Sh41.0h	1P- S- .0S	1P0Sh.40	1h- 1P.- 2	0.- y	ppm
IeOo	y072	1h6h0.44	10Shh.P4	104SS.0-	1PS66.SS	0.P6	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	64.yy	64.22	64.y2	64.4-	S.2P	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	61.04	62.Sy	61.6P	61.P2	S.- 2	ppm
LbJd	2SP71	62.6y	62.y0	62.06	62.66	S.1y	ppm
LitEiNu	671				h0		G
g JvobaiNu	2472	4- 62.- y	- 00h.- -	- h2- .2-	4S21.64	0.yy	ppm
g JovJobab	yy72	4y0.6P	- hy.00	4Sy.- S	41h.yP	0.h4	ppm
g O%mdboNu	h471	- .P4	- .h2	4.2-	4.SS	y.14	ppm
g O%mdboNu	hy71	S.6y	S.0S	S.6h	S.6P	- .04	ppm
g O%mdboNu	h671	S.hh	1.1S	1.S4	1.S4	y.S-	ppm
g O%mdboNu	h071	S.0S	S.66	S.P4	S.0-	1- .10	ppm
g O%mdboNu	hP71	S.64	S.02	S.0S	S.6h	6.Sh	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	1y.Py	14.SS	14.2S	14.6P	6.h1	ppm
I EOapEOeNa	- 172	1- 00.P2	1SPy.- 2	1S- 6.Py	1166.66	1y.P1	ppm
I OtJaaiNu	- h72	- 62- .h-	- 1- h.4y	- 2- 6.04	- - - - .- 0	0.6h	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				1SS		G
r cJodiNu	4y71				1Sy		G
r cJodiNu	4y72				h2		G
r bwboiNu	P271	S.4S	S.00	S.6h	S.62	- S.h6	ppm
r bwboiNu	0072	2S.S0	2y.2y	22.h1	22.04	11.41	ppm
r bwboiNu	0P72	y.yh	4.21	4.6-	4.P1	14.02	ppm
r iwcOo	2P71	164.0-	162.0h	16P.16	16y.22	1.6y	ppm
r iwRbe	1S071	S.- 6	S.- h	S.- y	S.- 0	y.1P	ppm
r iwRbe	1Sh71	S.- h	S.- 0	S.- P	S.- P	2.y0	ppm
r OdiNu	2- 72	20y.hP	220.12	2- 0.Sy	246.02	1S.40	ppm
r teOotiNu	P671	2SP.00	2Sy.S0	2S- .hS	2Sy.h2	1.24	ppm
r teOotiNu	PP71	221.P0	212.y6	212.- 0	21y.6S	2.y2	ppm
r NwNe	- 471	7212P.0P	72- 46.P6	71P26.- -	721SS.66		ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S1		G
TEJwiNu	2S- 71	S.2S	S.1P	S.21	S.2S	0.P2	ppm
TEJwiNu	2Sy71	S.2S	S.1h	S.2S	S.2S	1.S6	ppm
Tio	11P71	2.61	2.- 6	2.y1	2.4h	y.S6	ppm
TitJoiNu	4071	hS.S0	hS.1h	h2.16	hS.PS	1.2h	ppm
F eJoiNu	2- P71	1.2S	1.26	1.26	1.24	2.64	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440714	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC- P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 16:26:22	DJtJCiwb 8 Ju b :	S0PAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	- 4.P-	- S.60	- S.64	- 2.Sy	0.y-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1SS		G
Zioc	6672	14S.yh	11h.14	12S.6-	126.0h	h.4y	ppm
ZiecOoiNu	hS71	1.P4	1.P-	1.P2	1.P-	S.44	ppm
ZiecOoiNu	h171	1.h4	1.P1	1.0-	1.P-	y.hP	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdPP:u sb r :9	S0JqC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	1SN 4U64	1S - 4U6-	1S- JUN4	1S N- US-	2U0	DDe
q5Tb n5%	12171	SU-	SU44	SU4-	SU40	11U02	DDe
qpwr 5cd	0 72	16USN	1 U4S	14U0	1 U	4UJ	DDe
Bspcmb	1- 71	22 U01	104U06	10SUJ	1JSU	16U12	DDe
Bspcmb	1- 071	222U N	10NU-	102U1-	1JSUJ	14U	DDe
Br p%PPmb	J71	1U24	1US	1USS	1U1S	11U21	DDe
Bcvb mTE	2SJ71				11-		G
Bcvb mTE	2SJ72				1S6		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	1UJ4	1U44	2U14	1UN4	1JU1	DDe
v sob cmb	1S671	71U2N	7SU4J	7- U1	71U64		DDe
v sob cmb	11171	2U20	1UN0	1U0	1UJ6	1- UJ2	DDe
v sPdcmb	4- 71	4041- U4	- 0664U2	- 6J4- UNS	4S60- UN6	14U N	DDe
v sPdcmb	4471	4N66- U61	- J- - - U2	- NS - U1J	42S16U00	1- U0N	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpd5r	- 71						dDw
v EPhpd5r	- 72						dDw
v Epmb cmb	272	21UJJ	21U46	21U2S	21U	1UNN	DDe
v nesPT	J72	11U N	11U1J	11USN	11U2N	2U2	DDe
v nDDr p	6- 72	- 0U4J	- 6U41	- 6UN-	- 6UJ1	1U4N	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16 71				114		G
h nPb cmb	16 72				1S6		G
t5ocmb	11 71				111		G
t5ocmb	11 72				1SS		G
tpn5	472	2JS06U1-	2J- S0US1	2NN6SU61	2JSN1U2	SU00	DDe
tpn5	672	2J6J4U0-	2N6J0U1	2N262U2-	2NNN4U06	2U4	DDe
tpn5	072	20 - U0J	20122U4N	26 - UJ4	20S06U04	1UN	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	- 0U2J	- SU2	2NUN	- 2U1-	14USN	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF- J	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:u sb r :9	S0JqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- 4U J	2NU14	20U6	- SUS-	1- U21	DDe
Lr so	2SN71	- U S	2NUJ1	2NU	- SUJ2	12UN	DDe
LdEcmb	671				1SS		G
y sM5r wcmb	2472	2S02NUJ4	2S2- 2UJ	1J66NU4J	2S21SU1-	2U6-	DDe
y s5Ms5r wr	72	64JUN2	642U1	62 UJ2	6- JUS	1UJ1	DDe
y nP%eor 5mb	J471	4UJ-	4U0	4US2	4U44	1SU6	DDe
y nP%eor 5mb	J 71	1U N	1U-	1U6	1U42	JU66	DDe
y nP%eor 5mb	J671	1UJ0	1U0	1U 1	1U04	1- UN	DDe
y nP%eor 5mb	J071	1U62	1UN	1U22	1U41	14U42	DDe
y nP%eor 5mb	JN71	1U6-	1U22	1U1	1UJ	1 U	DDe
u r no%b cmb	1 S71						dDw
u r no%b cmb	1 S72						dDw
u dkr P	6S72	20UN6	26U06	26U	20US6	2U61	DDe
8 EnwDEnpmw	- 172	46- NU6	4N2NUN	4626UJS	46JNUS	2U41	DDe
8 nTswwcmb	- J72	4S- 6UJ1	- J60U4	- J- 1U61	- J0NU66	1U	DDe
CEnocmb	1S- 71				11S		G
CEnocmb	1S- 72				1S4		G
I ds5ocmb	4 71				1SJ		G
I ds5ocmb	4 72				J0		G
I r P 5cmb	N271	2U4S	2U11	1U 0	2US2	2SUN6	DDe
I r P 5cmb	0072	20US1	- - UN	21U1N	20U1J	22U44	DDe
I r P 5cmb	0N72	0U6N	NU4-	6U0-	0U61	11U1J	DDe
I dBdn5	2N71	1J- U2N	142U20	1- 6UJN	1 0U 1	1JU04	DDe
I dBr p	1S071	SU2N	SU24	SU22	SU2	11USJ	DDe
I dBr p	1SJ71	SUS	SU22	SU21	SU2	2SU4J	DDe
I nocmb	2- 72	1N4NU24	1N10UNS	100NUS-	1N14U6J	1UJ4	DDe
I Tpm5Tcmb	N671	42JUN2	- 2UNS	- - JU01	- 04U11	1- US1	DDe
I Tpm5Tcmb	NN71	4 2U14	- 61UN0	- 4JU66	- N0UNU	14U4-	DDe
I mPmp	- 471	2S1- USJ	74 - U26	701JU04	2NSUS-	- NUSN	DDe
Ar pecmb	1 J71				114		G
Ar pecmb	1 J72				1S4		G
AEsPBmb	2S- 71	SU2J	SU2	SU22	SU2	14U6	DDe
AEsPBmb	2S 71	SU20	SU21	SU2-	SU24	12UJN	DDe
Ad5	11N71	1US-	SUN1	SU0-	SUN6	1NU N	DDe
AdS5cmb	4071	1S1U4N	NSU0J	06U4N	N6U2	1 U4J	DDe
Rps5cmb	2- N71	NUJ1	6U0J	6U6-	0U2	12U00	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tusb r :9	8 N
v Rt 5TI sb DP:t&:9	y h SF- J	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:1692J91J	&sTsFdP:usb r :9	S0JqC. Fwb

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	172	44U1N	42US6	41U64	42U6-	- U2S	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	NJ71				11		G
YTTpomb	NJ72				1S		G
Zd5d	6672	206U0	201UN-	260U-1	201UJ6	1U04	DDe
Zqpdn5omb	JS71	2U16	1UN4	1UN-	1UJ4	JU	DDe
Zqpdn5omb	J171	2U10	1UN2	1U00	1UJ2	11U10	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1122y.60	1Sy06.- 1	1119y.- S	111- 1.06	1.22	ppm
Aotiu Ooh	12171	S.26	S.4S	S.- 2	S.- -	2S.%9	ppm
Aesboic	0%72	22.29	22.%9	2- .S6	22.64	1.0%	ppm
BaeiNu	1- %71	14S.99	1y9.1%	161.10	166.0-	10.42	ppm
BaeiNu	1- 071	14- .11	2S2.y6	16S.%4	169.90	19.2-	ppm
BbehlliNu	y71	1.29	1.69	1.- 9	1.4%	14.26	ppm
Bisu NtE	2Sy71				y0		G
Bisu NtE	2Sy72				1S4		G
BeOu iob	9171						cps
Uadu iNu	1S971	1.1-	2.- 2	1.4%	1.6-	- 0.y4	ppm
Uadu iNu	1S671	7S.%y	72.- -	7S.9-	71.2%		ppm
Uadu iNu	11171	1.Sy	1.46	1.1-	1.22	16.62	ppm
UalciNu	4- 71	6626- .40	y0S%4.42	099yy.%S	9S0- y.1-	1y.10	ppm
UalciNu	4471	602- - .y1	y4999.6-	00S9%49	0y0- 6.S1	10.%9	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- %71						cps
UElOeiob	- %72						cps
UEeOu iNu	%2772	1y.0y	1y.1-	1y.4%	1y.46	1.0S	ppm
UOmalt	%y72	14.%4	14.11	14.- S	14.- 2	1.49	ppm
UOppbe	6- 72	- %%0	- 4.00	- %%0	- %- 1	1.- 1	ppm
DhspeOsiNu	1%671						cps
DhspeOsiNu	1%672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16%71				yy		G
MOlu iNu	16%72				1S4		G
IodiNu	11%71				y%		G
IodiNu	11%72				y9		G
IeOo	%472	- 0y04.10	- 0- 1S.12	- 09- y.16	- 00S0.92	S.y-	ppm
IeOo	%672	- 0142.6S	- 692%y4	- 0%14.- 6	- 016S.y0	S.y-	ppm
IeOo	%072	- 4y1%%S	- 420S.S6	- %S29.42	- 40- 0.yy	1.19	ppm
KehptOo	9- 71						cps
Lbad	2S671	- 9.9S	%%S%	44.20	46.S4	10.y6	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataCilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
Lbad	2S071	- 0.S4	%1.6S	41.%%	4- .4S	10.10	ppm
Lbad	2S971	- 9.S9	% .69	42.yy	44.y2	10.06	ppm
LitEiNu	671				99		G
g avobsiNu	2472	10yS4.42	10606.94	1060S.00	100%S.60	S.0%	ppm
g aovaobsb	%%72	- %%6S	- 4y.9-	- %9.40	- %4.6-	1.24	ppm
g OhmdboNu	y471	1S.S9	1- .%S	11.6y	11.06	14.%0	ppm
g OhmdboNu	y%71	1.- y	1.9%	1.61	1.62	14.- -	ppm
g OhmdboNu	y671	2.22	- .S0	2.66	2.6%	16.S2	ppm
g OhmdboNu	y071	1.40	1.06	1.%	1.%y	y.%0	ppm
g OhmdboNu	y971	1.- y	1.90	1.6S	1.62	14.62	ppm
8 bOdhu iNu	1%S71						cps
8 bOdhu iNu	1%S72						cps
8 ickbl	6S72	- 9.26	- 6.- 0	- 0.21	- 0.29	2.%%	ppm
PEOspEOeNs	- 172	1412.2-	14y4.%9	14S2.9S	14- 6.%	- .%1	ppm
POtassiNu	- y72	206- .21	266S.y1	2019.11	2014.S9	1.9y	ppm
n EOdiNu	1S- 71				y4		G
n EOdiNu	1S- 72				1S2		G
r caodiNu	4%71				y%		G
r caodiNu	4%72				y6		G
r blboiNu	9271	2.11	1.0-	1.60	1.94	1- .S0	ppm
r blboiNu	0072	- - .46	- - .06	2%46	- S.9y	1%2%	ppm
r blboiNu	0972	6.y4	9.S-	0.91	0.%y	0.%6	ppm
r ilicOo	2971	249.- 4	- - 9.12	20- .91	296.06	16.14	ppm
r ilRbe	1S071	S.2%	S.- 0	S.- S	S.- S	2S.%2	ppm
r ilRbe	1Sy71	S.2%	S.- 1	S.20	S.29	1S.y%	ppm
r OdiNu	2- 72	- 1- %09	- S- 2.y2	- S0%y2	- S91.%4	1.69	ppm
r teOotiNu	9671	- S- .99	42%29	- %6.Sy	- 61.0%	16.9-	ppm
r teOotiNu	9971	- 1y.0S	44- .y0	- 02.16	- 09.61	16.49	ppm
r NfNe	- 471	2140- .9y	- - 946.12	2%16%S-	26929.- %	2- .60	ppm
TbemiNu	1%y71				y9		G
TbemiNu	1%y72				1S2		G
TEalliNu	2S- 71	S.29	S.41	S.- -	S.- 4	1y.12	ppm
TEalliNu	2S%71	S.20	S.42	S.- -	S.- 4	21.%	ppm
Tio	11971	- .6y	%19	4.- %	4.41	16.y9	ppm
TitaoiNu	4071	% .1%	04.19	%9.42	61.y2	10.60	ppm
F eaoiNu	2- 971	- .0S	%1-	4.2%	4.- 6	16.62	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeatOe:	Jaswal
Lamr au plb ID :	3 - 440716	IosteNu obt 8 au b :	P9
Ulibot r au plb ID :	g MSC4S	DilNtiOo CactOe:	1
Datb & Tiu b AcqNiebd :	2S2- 7S0712 16:- 2:19	DataOilb 8 au b :	S9SAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oits
VaoadiNu	%17 2	4y.64	49.12	49.S9	49.62	1.9-	ppm
YttbemiNu	1027 1						cps
YttbemiNu	1027 2						cps
YttbemiNu	1067 1						cps
YttbemiNu	1067 2						cps
YtteiNu	9y7 1				yy		G
YtteiNu	9y7 2				1S2		G
Zioc	667 2	16- .12	1%9.- 4	166.6y	162.02	2.%0	ppm
ZiecOoiNu	yS7 1	4.99	6.y0	%00	%90	10.92	ppm
ZiecOoiNu	y17 1	%Sy	6.y2	6.S%	6.S2	1%26	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RlAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	110hhF24	12S49F58	11h6hF28	11h- 0F80	1F59	I I b
c n&Amon%	12171	SF1h	SF21	SF29	SF22	1- F2h	I I b
c rsenAq	0972	6Fh2	0F6S	8F50	0F9-	0F60	I I b
BarAum	1- 971	18hF5-	1h- F0S	221F4h	2S1F41	8F01	I I b
BarAum	1- 071	188Fhh	1h4Fh4	22SF6h	2S1F94	8F- 6	I I b
Ber%lAum	h71	1F29	1F26	1F- h	1F- S	6F22	I I b
BAsmu&E	2Sh71				1Sh		G
BAsmu&E	2Sh72				1S6		G
BromAne	8171						ql s
RaOmAum	1S871	SF92	SF4-	SF14	SF- 0	9- FhS	I I b
RaOmAum	1S671	74F- 8	71F2-	72F- 0	72F66		I I b
RaOmAum	11171	SF- 1	SF- 6	SF- 0	SF- 9	8F9h	I I b
RalqAum	4- 71	4hh8F1S	91h1F2-	981SF0S	9- - - F- 4	0Fh6	I I b
RalqAum	4471	94- SF26	948- F99	61h0F5h	90S- F64	0F91	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- 971						ql s
REIorAne	- 972						ql s
REromAum	9272	2SFh1	2SF06	2SFh-	2SF80	SF49	I I b
Robal&	9h72	0F1h	0F5h	0F22	0F16	SFh9	I I b
RoI I er	6- 72	2SF0h	2SF0S	2SFh0	2SF82	SF66	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
y olmAum	16971				11S		G
y olmAum	16972				1S6		G
DnOAum	11971				1S8		G
DnOAum	11972				1SS		G
Don	9472	22984F60	228S- Fh8	220S2F60	226h0F11	SF48	I I b
Don	9672	222S6F- 0	229- 6F4S	22Sh2F08	22208F92	1F5-	I I b
Don	9072	21S- - Fh4	21210F51	2S0h8F80	21S16F61	1F5S	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	29F19	29F26	20F40	29Fh6	9F59	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440710	Dns&umne&Name :	P8
RIAen&pamI le D :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	2- F4S	2- F0S	29F9-	24F21	4F06	I I b
LeaO	2S871	24F49	24F98	26F4h	29F18	4F9-	I I b
LA&EAum	671				hh		G
MagnesAum	2472	200SFS4	2018F-	208SF02	2096F- 6	1F21	I I b
Manganese	9972	48- F08	480FSS	482F46	484F41	SF48	I I b
Mol%bOenum	h471	2F69	2F09	- FSh	2F8-	8F29	I I b
Mol%bOenum	h971	SF00	SF60	SF81	SF09	hF29	I I b
Mol%bOenum	h671	SFh9	1FS2	1FSh	1FS2	6F69	I I b
Mol%bOenum	h071	SF0-	SF00	SFh2	SF81	12F24	I I b
Mol%bOenum	h871	SF6h	SF04	SF8S	SF04	0F2h	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	19Fh8	16FSS	16F2S	16FS6	SF0-	I I b
PEosI Eorus	- 172	921F42	9h9F8-	9- 9F48	99SFh1	0F18	I I b
Po&assAum	- h72	262hF06	26hSF- h	2019Fhh	2608F01	1F69	I I b
5 EoOAum	1S- 71				1S6		G
5 EoOAum	1S- 72				1S-		G
p qanOAum	4971				1S0		G
p qanOAum	4972				h0		G
p elenAum	8271	SF62	SF94	1F1-	SF00	41F61	I I b
p elenAum	0072	4hF- 2	40F6h	9SF6S	4hF2S	2Fh6	I I b
p elenAum	0872	0F96	0F94	0F2h	0F46	2FS2	I I b
p AAqon	2871	1h0F80	2S4F19	2- 1FS-	211FS1	8F- 9	I I b
p Aver	1S071	SFS8	SF12	SF1S	SF1S	21F11	I I b
p Aver	1Sh71	SFSh	SFSh	SF1S	SF1S	6F86	I I b
p oOAum	2- 72	61F- 9	61F90	68F- 4	6- F09	6F2-	I I b
p &on&Aum	8671	86F8-	8hFhh	h0F42	h1F41	9Fh9	I I b
p &on&Aum	8871	h1F68	h4F06	1S2FSh	h6F10	9F96	I I b
p ulfur	- 471	72- 6- Fh9	72421F- 1	71662Fh4	7214hF4S		I I b
i erbAum	19h71				11S		G
i erbAum	19h72				1S4		G
i EallAum	2S- 71	SF2-	SF24	SF20	SF29	8F12	I I b
i EallAum	2S971	SF2-	SF22	SF24	SF2-	- F44	I I b
i An	11871	1F- 1	1F40	1F0-	1F91	14F1S	I I b
i A&anAum	4071	124F9h	12hF41	144F92	1- 2F84	0F8-	I I b
UranAum	2- 871	1F41	1F44	1F9S	1F49	- FS4	I I b

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D) :	3 - 440710	Dns&umne&Name :	P8
RIAn&pamI le D) :	My S. 49	t Au&on . aq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:- 9:14	t a&a. Ae Name :	S81c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
VanaOAum	9172	- - F24	- - F1S	- - F1S	- - F19	SF29	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8h71				119		G
Y&&Aum	8h72				1S8		G
ZAnq	6672	84F9h	84FS4	89F09	84F0h	1FS-	l l b
ZAqonAum	hS71	1F24	1F- -	1F49	1F- 4	0F02	l l b
ZAqonAum	h171	1F2h	1F28	1F- 4	1F- S	2F48	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	2072	1S000. y	11- h1.61	12h16.-	116hy.2	h.42	ppm
Aotiu Oo%	12171	S.yS	S.4h	S.yS	S.4h	1.S2	ppm
Aesboic	0y72	1y.- y	16.4-	1 .h0	16.h1	1S.h	ppm
BaeiNu	1- y71	100.24	1 0.1S	1 2.S0	1 2.14	2.01	ppm
BaeiNu	1- 071	10h.00	1 - .- 1	1 4.- h	1 2.4h	1.- 2	ppm
Bbe%liNu	h71	S. 6	S. 6	S. 2	S. y	2.6S	ppm
Bisu NtE	2Sh71				11S		G
Bisu NtE	2Sh72				hh		G
BeOu iob	171						cps
Uadu iNu	1S 71	2.S2	1.0S	1.-	1.0S	1 .hh	ppm
Uadu iNu	1S671	71.yh	72.- h	72.22	72.S0		ppm
Uadu iNu	11171	1. S	1.00	1.h0	1. y	y.hS	ppm
UalciNu	4- 71	- S- 0- . -	- 1446.- 4	- S- .1h	- S0- 6.12	2.SS	ppm
UalciNu	4471	- 1- 04.24	- 2S1- .11	- 1- 12.SS	- 1y66.4y	1.2-	ppm
UaemOo	1271						cps
UaemOo	1272						cps
UElOeiob	- y71						cps
UElOeiob	- y72						cps
UEeOu iNu	y272	2S.- h	21.00	2y.14	22.4-	1S.hS	ppm
UOmalt	yh72	1S.02	11.4y	12. h	11.6h	h.4y	ppm
UOppbe	6- 72	- S. -	- 1. 1	- 6.S1	- 2.	.-	ppm
D%speOsiNu	1y671						cps
D%speOsiNu	1y672						cps
5emiNu	16471						cps
5emiNu	16472						cps
HadOlioiNu	16S71						cps
HadOlioiNu	16S72						cps
MOlu iNu	16y71				111		G
MOlu iNu	16y72				h0		G
IodiNu	11y71				1Sh		G
IodiNu	11y72				h2		G
IeOo	y472	- S0S4.- -	- - S26.- -	- 64S1.S0	- - - 00.24	.y	ppm
IeOo	y672	2h h2.1	- 1yS6.0h	- 026 .- 4	- 2 h.1S	11.0h	ppm
IeOo	y072	2 110.Sh	- S2 - . 0	- - h 4.- h	- S0hy.12	h.6-	ppm
Ke%ptOo	- 71						cps
Lbad	2S671	- - .10	- 4.2S	- - .6S	- - .66	1.y4	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S071	- 1.y4	- 2.0h	- 2.Sy	- 2.1-	1.hy	ppm
Lbad	2S 71	- 2.- 6	- - .2y	- 2.42	- 2.6	1.y2	ppm
LitEiNu	671				hh		G
g avobsiNu	2472	1- 4Sy.y0	1- 41.y	16S2 .S0	1442y.S0	h.04	ppm
g aovaobsb	yy72	411.4	4- 6.24	4h6.h4	44 .22	h. 1	ppm
g Ol%mdboNu	h471	- .h-	- .hS	- . y	- .hS	1.1S	ppm
g Ol%mdboNu	hy71	1.06	1.y0	1.6-	1.6y	y. S	ppm
g Ol%mdboNu	h671	1.h6	1.hy	1.	1.h-	2.46	ppm
g Ol%mdboNu	h071	1.y6	1.4	1.yh	1.y4	- .40	ppm
g Ol%mdboNu	h 71	1.0y	1.0h	1.04	1.06	1.4S	ppm
8 bOd%u iNu	1yS71						cps
8 bOd%u iNu	1yS72						cps
8 ickbl	6S72	2h.11	- S.- -	- - .40	- S.h0	0.20	ppm
PEOspEOeNs	- 172	21y2.6	220h.2S	2y46.60	2- 26.1	.6y	ppm
POtassiNu	- h72	- h6y.yS	426y.Sh	40 - .y1	4- - .S4	h.y4	ppm
n EOdiNu	1S- 71				1S0		G
n EOdiNu	1S- 72				h6		G
r caodiNu	4y71				1S0		G
r caodiNu	4y72				h		G
r blboiNu	271	S.	S.	S. 1	S. 6	4.y4	ppm
r blboiNu	0072	1 .yh	20.62	21.h1	22.01	2S.12	ppm
r blboiNu	0 72	4.60	6.- 4	0.60	6.2-	24.10	ppm
r ilicOo	2 71	21S.S0	21y.4h	2S .S2	211.2S	1. -	ppm
r ilRbe	1S071	S.2	S.- 2	S.2h	S.- S	0.Sh	ppm
r ilRbe	1Sh71	S.- S	S.- 2	S.- -	S.- 2	4.64	ppm
r OdiNu	2- 72	1- y.Sy	14 .4S	1 1. y	1yy.1S	1y.yy	ppm
r teOotiNu	671	h0.- 0	h- .12	h6.2S	hy.y0	2.- S	ppm
r teOotiNu	71	1S1.- 1	1SS.04	1SS.10	1SS.04	S.y6	ppm
r NfNe	- 471	71- 40.21	7h06. -	7110- .20	7116y.00		ppm
TbemiNu	1yh71				111		G
TbemiNu	1yh72				h6		G
TEalliNu	2S- 71	S.2h	S.- 4	S.- 1	S.- 1	.S0	ppm
TEalliNu	2Sy71	S.2h	S.2h	S.- S	S.2h	1.42	ppm
Tio	11 71	S.6-	S.60	S.61	S.64	4.h-	ppm
TitaoiNu	4071	0 .yS	1.46	06.- 4	0 .00	- .26	ppm
FeaoiNu	2- 71	1.h4	2.Sy	2.S	2.S2	- . S	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 44071	IosteNu obt:8 au b:9	P
Ulibot:r au plb:ID:9	g MSC46	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- 7S0712:169- 914	DataCilb:8 au b:9	S 2An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y172	46.0h	4h.1h	y4.hy	yS.- 1	.- -	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	h71				111		G
YtteiNu	h72				h4		G
Zioc	6672	1h1. 0	2S- . 1	220.yh	2S0.06	.0y	ppm
ZieoOoiNu	hS71	1.- 6	1.41	1.- 4	1.- 0	2.	ppm
ZieoOoiNu	h171	1.4-	1.-	1.2-	1.- y	0.y-	ppm

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Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8 sps b r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
qPmb oCcmb	20:2	7 1yN.27	71 N4.1N	71 77.0	71y0y. y	2.S	DDe
qCTb 5Ch	121:1	4y .44	4y2.S4	4NS.	4NN.61	1.40	DDe
qpwr Ccl	07:2	720.62	722.6y	717.62	721.yN	1.16	DDe
Bspcmb	1 7:1	24yy.yS	24yS.27	24N4.N	24y1.66	S. 1	DDe
Bspcmb	1 0:1	24NN.7N	240N.2N	241S.66	247y.10	1.02	DDe
Br phPmb	y:1	47y.N7	404.N2	460.02	460.46	1.6S	DDe
Bcwb mT%	2Sy:1				yN		E
Bcwb mT%	2Sy:2				y		E
Bp5b cCr	N1:1						dDw
3 sob cmb	1SN:1	4yS. 2	4yS.SS	4y0.22	4y2.71	S.N	DDe
3 sob cmb	1S6:1	4yN.12	4N .y2	402.N6	4N4.y0	2.61	DDe
3 sob cmb	111:1	4Ny.7N	4N6.S2	400.17	4N4.27	1. 2	DDe
3 sPlcmb	4 :1	2714y .02	24y1N1.1y	24 N4S.S	24N101.67	1.7N	DDe
3 sPlcmb	44:1	24SySy.N7	241S21.	24S40y.S4	24SNS .41	S.12	DDe
3 spe5C	12:1						dDw
3 spe5C	12:2						dDw
3 %P5pcCr	7:1						dDw
3 %P5pcCr	7:2						dDw
3 %p5b cmb	72:2	4yy.1y	4y .47	4N0.y6	4y .7	1.14	DDe
3 5esPT	7y:2	4yy.N4	4y4.7N	4yS.y4	4y7.12	S.yS	DDe
3 5DDr p	6 :2	72y0. N	7 SN. 1	7 26.26	7 1S.67	S.20	DDe
&hwDp5wcmb	176:1						dDw
&hwDp5wcmb	176:2						dDw
Gpecmb	164:1						dDw
Gpecmb	164:2						dDw
Hso5PlCcmb	16S:1						dDw
Hso5PlCcmb	16S:2						dDw
K5PP cmb	167:1				1S2		E
K5PP cmb	167:2				yN		E
tCocmb	117:1				y0		E
tCocmb	117:2				Ny		E
tp5C	74:2	1 S010.6N	12y70S. 4	12N7N0.47	12y627.16	S.N2	DDe
tp5C	76:2	1 S1y4.61	1 1217.	12yS24.2N	1 S144.04	S.N4	DDe
tp5C	70:2	1 10N. 1	1 16y .06	1244S1. S	12y070.0y	.62	DDe
k phDT5C	N :1						dDw
Lr so	2S6:1	2402.	24 6.y	247y.y4	2476.4S	S.0	DDe

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Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 Pr CT9l sb DP9l&9J9	3 3 - S27	&dPmT5C9FsdT5p9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
Lr so	2S0:1	24y2. N	246S.07	24N .yS	240y.S1	S.66	DDe
Lr so	2SN:1	24yS.Ny	24y0. y	27S0. 4	24yN.74	S.	DDe
LdP%mb	6:1				NN		E
MsgOr wmb	24:2	26444N.y4	261727.1y	26S077.26	26224 .1	S.04	DDe
MsOgsOr wr	77:2	72y1. 7	7260.6y	7207.SS	720N.S2	S.2	DDe
M5Pheor Omb	y4:1	4N44.21	4N .N1	4y 2.N1	4N0S.2N	1.12	DDe
M5Pheor Omb	y7:1	4N2N.S0	4N71.26	7S2N.1y	4yS2.71	2.2	DDe
M5Pheor Omb	y6:1	406y.44	4y21.Ny	7S 4.N1	4ySN.01	2.01	DDe
M5Pheor Omb	y0:1	4N47.7	4yS7. 0	7SS4.2N	4y1N. y	1.6	DDe
M5Pheor Omb	yN:1	4yS7.N	4y22.S6	7S7 .06	4y6S.77	1.64	DDe
ur 5ohb omb	17S:1						dDw
ur 5ohb omb	17S:2						dDw
udfr P	6S:2	7S0.2	7SN.71	7SN.S1	7S0.y2	S.1	DDe
8 %5wD%5pmw	1:2	yy2y.y0	y6 1.21	y0yy.4y	y0N6.Ny	1.7	DDe
8 5Tswwmb	y:2	1202Sy.17	12N1y .yy	126S7y.74	120174.2	S.N4	DDe
R%5omb	1S :1				y2		E
R%5omb	1S :2				Ny		E
I dsOomb	47:1				y4		E
I dsOomb	47:2				NN		E
I rPOmb	N2:1	462.44	46y.67	4N6.40	402.N7	2.61	DDe
I rPOmb	00:2	4yy. 7	7SS.2y	711.76	7S .0	1. 7	DDe
I rPOmb	0N:2	720.76	7SN.N4	7S0.N1	714.04	2.16	DDe
I dd5C	2N:1	722.7S	71N.7N	712.0N	710.y7	S.y4	DDe
I dPr p	1S0:1	4N0.0	402.60	406.N2	40y.S0	1.62	DDe
I dPr p	1Sy:1	4N6.44	404.N4	40y.7S	4NS.26	1.22	DDe
I 5omb	2 :2	20SSNy.7	264276.y4	264 2.20	266226.27	1.26	DDe
I Tp5CTomb	N6:1	1220 .41	12170.S7	120 1.67	12 N0. 0	2.47	DDe
I Tp5CTomb	NN:1	12SN0. 0	12Sy2.10	12260.10	1214N.yS	S.N4	DDe
I mPVp	4:1	y000.NS	y211.12	NN24.6y	y201.2S	7.10	DDe
Ar pemb	17y:1				1S		E
Ar pemb	17y:2				y0		E
A%sPmb	2S :1	71 .24	4yy. 7	4y0.20	7S .2y	1.0	DDe
A%sPmb	2S7:1	7S0.6S	4y4.24	7S1.24	7S1.S	1.	DDe
AdC	11N:1	40N.yy	7S2.1y	4N1.y2	4N0.0S	2.7y	DDe
AdsOomb	40:1	7S47.42	7S6 .72	4y00.77	7S2N.N	S.yS	DDe
UpsOomb	2 N:1	7S1.S4	7SS.2S	710.y	7S6. y	1.yN	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	n Dr psT5p9J	aswl sP
Lse9l sb DrP9l&9J9	3 3 - S27	tOwTpmb Or T9u sb r 9J	8 N
3 RrCT9l sb DrP9l&9J9	3 3 - S27	&drmT5C9FsdT5p9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2 :S0:129l6J7SJ77	&sTsFdrP9u sb r 9J	SN43 3 - .o

8spsb r Tr p	Msww	3 5CRr D1	3 5CRr D2	3 5CRr D	qvg.93 5Cd.	3 5CdRI &	UCdTw
- sCsoomb	71:2	72N.N6	724.7y	722.66	727. 0	S.6S	DDe
YTTr peomb	102:1						dDw
YTTr peomb	102:2						dDw
YTTr peomb	106:1						dDw
YTTr peomb	106:2						dDw
YTTpomb	Ny:1				yN		E
YTTpomb	Ny:2				y1		E
ZdCd	66:2	7S00.42	4yy4.y6	7S14.16	7S2N.N7	S.N6	DDe
Zqpd5Comb	yS:1	400. N	4y .yS	4y0.N4	4Ny.01	2.22	DDe
Zqpd5Comb	y1:1	461.S0	466.S6	40N.yN	46N.01	1.y0	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&n5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
c lumA5Aum	20 2	1.y7	2.S6	1.- y	1.86	17.2S	I I b
c 5&mn5h	121 1	S.1y	S.21	S.26	S.22	1- .70	I I b
c rse5Aq	0- 2	S.S2	S.S7	S.S2	S.S2	21.46	I I b
BarAum	17- 1	S.1-	S.14	S.1-	S.14	7.47	I I b
BarAum	170 1	S.17	S.16	S.27	S.10	28.21	I I b
BerhllAum	y 1	S.S0	S.S6	S.S0	S.S0	6.y8	I I b
BAsmu&%	2Sy 1				1S-		E
BAsmu&%	2Sy 2				1S4		E
BrnmA5e	81 1						ql s
3 aOmAum	1S8 1	S.10	S.1S	S.S6	S.SS	7111.14	I I b
3 aOmAum	1S6 1	- .S8	- .2S	- .64	- .71		I I b
3 aOmAum	111 1	S.S7	S.S6	S.S1	S.S7	6y.82	I I b
3 alqAum	47 1	16.y2	16.Sy	12.81	1- .28	14.24	I I b
3 alqAum	44 1	26.- S	7S.46	27.- -	26.84	12.y1	I I b
3 arbn5	12 1						ql s
3 arbn5	12 2						ql s
3 %nrA5e	7- 1						ql s
3 %nrA5e	7- 2						ql s
3 %nmAum	- 2 2	S.S1	S.S-	S.S0	S.S4	64.y2	I I b
3 nbal&	- y 2	S.S2	S.SS	S.SS	S.S1	11S.21	I I b
3 nI I er	67 2	S.62	S.6S	S.- 0	S.6S	4.- 6	I I b
t hsI rnsAum	1- 6 1						ql s
t hsI rnsAum	1- 6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
GaOnIA5Aum	16S 1						ql s
GaOnIA5Aum	16S 2						ql s
HnImAum	16- 1				1S-		E
HnImAum	16- 2				1S7		E
D5OAum	11- 1				1S7		E
D5OAum	11- 2				y0		E
Dn5	- 4 2	- .78	7.27	6.22	4.y4	71.16	I I b
Dn5	- 6 2	- .Sy	7.yS	4.77	4.44	17.- 8	I I b
Dn5	- 0 2	6.46	4.88	4.4y	- .28	1y.06	I I b
Krhl &a5	87 1						ql s
LeaO	2S6 1	S.2S	S.21	S.18	S.2S	y.0-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
LeaO	2S0 1	S.24	S.21	S.22	S.22	- .- -	I I b
LeaO	2S8 1	S.24	S.22	S.2S	S.22	0.- S	I I b
LA%Aum	6 1				y7		E
Mag5esAum	24 2	0.- 8	0.72	8.S4	0.6-	4.04	I I b
Ma5ga5ese	- - 2	S.22	S.2S	S.22	S.21	6.4S	I I b
MnlhbOe5um	y4 1	S.- y	S.- 6	S.- 1	S.- -	0.60	I I b
MnlhbOe5um	y- 1	S.67	S.- 8	S.- S	S.- 0	11.60	I I b
MnlhbOe5um	y6 1	S.64	S.- 8	S.- 2	S.- 8	1S.10	I I b
MnlhbOe5um	y0 1	S.64	S.6S	S.- 2	S.- 8	1S.88	I I b
MnlhbOe5um	y8 1	S.60	S.- -	S.- S	S.- 8	1- .S1	I I b
NenOhmAum	1- S 1						ql s
NenOhmAum	1- S 2						ql s
NAqkel	6S 2	S.S7	S.S1	S.S8	S.S4	8- .18	I I b
P%nsI %nrus	71 2	71.- S	- 7.Sy	4- .10	47.2-		I I b
Pn&assAum	7y 2	28.yy	22.6-	7- .76	2y.SS	21.yS	I I b
R%nOAum	1S7 1				1S1		E
R%nOAum	1S7 2				1S2		E
pqa5OAum	4- 1				1SS		E
pqa5OAum	4- 2				y2		E
pele5Aum	82 1	S.22	S.S6	S.21	S.12		I I b
pele5Aum	00 2	S.78	S.78	S.0y	S.S1	- 2y0.S0	I I b
pele5Aum	08 2	S.7S	S.07	S.- 2	S.- 2		I I b
pAAqn5	28 1	S.10	S.26	S.14	S.1y	71.24	I I b
pAver	1S0 1	S.S4	S.S4	S.S7	S.S4	14.0S	I I b
pAver	1Sy 1	S.S4	S.S7	S.S7	S.S4	1y.64	I I b
pnOAum	27 2	08.S7	0S.- 8	07.41	04.S1	- .S8	I I b
p&n5&Aum	86 1	S.y8	S.86	S.60	S.84	1y.S0	I I b
p&n5&Aum	88 1	S.y2	S.04	S.0-	S.8S	12.64	I I b
pulfur	74 1	12y7.28	8SS.S1	1S28.88	1S4S.02		I I b
i erbAum	1- y 1				1S4		E
i erbAum	1- y 2				1S1		E
i %allAum	2S7 1	S.1y	S.1y	S.10	S.18	0.64	I I b
i %allAum	2S- 1	S.1y	S.1y	S.18	S.18	7.07	I I b
i A5	118 1	S.SS	S.S1	S.S7	S.SS		I I b
i A&a5Aum	40 1	S.77	S.77	S.42	S.76	14.- 1	I I b
Ura5Aum	278 1	S.S4	S.S7	S.S2	S.S7	20.16	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	o l era&ar:9	Jaswal
Lab:pamI le:D :9	3 3 BS2-	D5s&um5e&Name:9	P8
3 lAe5&pamI le:D :9	3 3 BS2-	t Au&A5:Faq&ar:9	1
t a&e:T:i Ame:c qduAeO.9	2S27 S0 12:169-4911	t a&aFAe:Name:9	S8- 3 3 BC.O

Parame&er	Mass	3 n5Rel 1	3 n5Rel 2	3 n5Rel 7	c vg.:3 n5q.	3 n5qRpt	U5A&s
Va5aOAum	- 1 2	S.S1	S.SS	S.S1	S.S1	40.46	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8y 1				1S1		E
Y&&Aum	8y 2				y6		E
ZA5q	66 2	S.12	S.20	S.70	S.2-	48.y-	I I b
ZAqn5Aum	yS 1	S.S-	S.S2	S.S4	S.S4	42.42	I I b
ZAqn5Aum	y1 1	S.S7	S.S1	S.S7	S.S2	67.2S	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPP:u sb r :9	SN6qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMU:v n5dU	v n5dCI &	R5dTw
qPmb c5cmb	2072	12 4- US-	1- 2 1U1N	12 06U2	1- S0SU10	1U40	DDe
q5Tb n5%	12171	SUJ J	SU6S	SUJ6	SUJ0	4U2N	DDe
qpwr 5cd	0J72	21UN4	2SU24	21U02	21U20	4U2S	DDe
Bspcmb	1- J71	2J2U2S	2J2U-0	2641U6S	2J6U	2U00	DDe
Bspcmb	1- 071	2J6U4S	2JJUN-	2641U0	2J USS1	1U 4	DDe
Br p%PPmb	71	1U12	1US	1U1-	1U11	1UN0	DDe
Bcwb mTE	2S 71				1S6		G
Bcwb mTE	2S 72				1S4		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	2U26	1U42	1U 2	1UN0	22U44	DDe
v sob cmb	1S671	72USS	71U J	71U4N	71UN1		DDe
v sob cmb	11171	1UN-	1UN6	1U -	1UN0	2U01	DDe
v sPdcmb	4- 71	J20S0U21	J1N- 0U2J	J1 - 4U44	J21J U6-	SU 1	DDe
v sPdcmb	4471	J- 04 UN2	J- 4NU	J44 1UJJ	J4S6- U4J	SU01	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- J71						dDw
v EPhpc5r	- J72						dDw
v Epmb cmb	J272	21UJ6	21U0	21UJ6	21U64	SU61	DDe
v nesPT	J 72	1- U 1	14U-1	14U10	14U1-	1U46	DDe
v nDDr p	6- 72	- 2U22	- 2U02	- 1U -	- 2U2	1U24	DDe
&%wDpnwcmb	1J671						dDw
&%wDpnwcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
h nPb cmb	16J71				1SN		G
h nPb cmb	16J72				1S4		G
t5ocmb	11J71				1S-		G
t5ocmb	11J72						G
tpn5	J472	- J J- UJS	- 6SN6U2	- J4 NU00	- JN46U1	SUN6	DDe
tpn5	J672	- 62N0US-	- J461U0J	- J- 0- UJJ	- J0S0U44	1U41	DDe
tpn5	J072	- - - 2- US1	- - - J1UN2	- - 1 2US-	- - 2NNU J	SU26	DDe
Kp%DTn5	N- 71						dDw
Lr so	2S671	4SU6	- U4	- U6	4SU2	1U4J	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr psTnp:9	aswl sP
Lse:I sb DPP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DPP:t&:9	y h SF40	&dPmTm5:FsdTnp:9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdPP:u sb r :9	SN6qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMUv n5dU	v n5dCI &	R5dTw
Lr so	2S071	- NUJ0	- 0UNN	- NUJ6	- NU2S	SU0-	DDe
Lr so	2SN71	- UJ-	- NU0S	- U11	- US4	SUN2	DDe
LdEomb	671				6		G
y sM5r womb	2472	1- 16JUN4	1- 00- UJ0	1- 2N- USN	1- 4S0U4-	2U4S	DDe
y s5Ms5r wr	JJ72	4 0U6	JS- U06	4 NUJ0	JSSUS1	SU66	DDe
y nP%eor 5mb	471	JUS1	4U06	4U00	4UNJ	2U 0	DDe
y nP%eor 5mb	J71	2UN-	2UJ-	2UJS	2U62	6U -	DDe
y nP%eor 5mb	671	- US6	2UNJ	2UJ	2UN-	NUJS	DDe
y nP%eor 5mb	071	2U0	2U6N	2U44	2U64	6U00	DDe
y nP%eor 5mb	N71	2U -	2U62	2U40	2U60	NU0S	DDe
u r no%b omb	1JS71						dDw
u r no%b omb	1JS72						dDw
u dkr P	6S72	- JU4J	- JUN1	- JUNN	- JU01	SU66	DDe
8 EnwDEnpmw	- 172	1201U02	12J U60	1241U	12J0U0	1U1	DDe
8 nTswwomb	- 72	- 10SUS-	- 2- 2U41	- 1N6U0J	- 1 6U4S	1US1	DDe
CEnoomb	1S- 71				1S1		G
CEnoomb	1S- 72				1S2		G
I ds5oomb	4J71				1S-		G
I ds5oomb	4J72				6		G
I r P 5omb	N271	1UJ-	SU02	SUJ6	1USS	- SU64	DDe
I r P 5omb	0072	- JU2S	24UJ1	2 U4S	2 U0S	1NUS-	DDe
I r P 5omb	0N72	JUS6	JUJ	JUJ1	JUJ1	NU1S	DDe
I dPdn5	2N71	2- 2UJ-	226UJ4	22 US4	22 UJS	1U4S	DDe
I dPgr p	1S071	SUJ	SUJ0	SUJN	SUJN	- U14	DDe
I dPgr p	1S 71	SUJ0	SUJ0	SUJ	SUJN	- UJ	DDe
I nomb	2- 72	2N0U4J	2 6U6S	20JUNS	2N6U61	- U64	DDe
I Tpm5Tomb	N671	1J1US-	14NU1J	14JUJN	14NU1	1U 1	DDe
I Tpm5Tomb	NN71	1J6USS	1J4U0N	1J1U64	1J4U14	1U46	DDe
I mPmp	- 471	7 J0USJ	71S41U01	71SJ6U0J	71S1NUJS		DDe
Ar peomb	1J 71				1S0		G
Ar peomb	1J 72				1S-		G
AEsPPmb	2S- 71	SUJ4	SUJ-	SUJ1	SUJ-	2UJ6	DDe
AEsPPmb	2SJ71	SUJ0	SUJ6	SUJ4	SUJ6	2U	DDe
Ad5	11N71	SU02	SU04	SU02	SU0-	1U01	DDe
AdS5omb	4071	JJUJ1	JJUN4	JJU61	JJUJN	SU4N	DDe
Rps5omb	2- N71	2U41	2UJ4	2UJ-	2UJ6	1U02	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse:I sb DP:t&:9	3 - 44071	t5wTpmb 5r Tu sb r :9	8 N
v Pr 5TI sb DP:t&:9	y h SF40	&dPmTcn5:FsdTnp9	1
&sTr :i :Adb r :qdOmpr o:9	2S2- 7S0712:169J091-	&sTsFdP:u sb r :9	SN6qC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	J172	J6UJ	JNUJ	J6U14	J0U11	2U2N	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N 71				1S0		G
YTTpomb	N 72				1S4		G
Zd5d	6672	16NU0S	101UJ	160U0J	16 U40	1US	DDe
Zqpdn5omb	S71	1U4N	1U64	1UJJ	1UJ6	JU22	DDe
Zqpdn5omb	171	1UJ	1UJ6	1U40	1U40	JU0	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1yP06.- -	1yh22.1S	1yh2P.P6	1yhSh.1S	S.1P	ppm
Aotiu Oo%	12171	1.1-	1.10	1.1-	1.14	1.06	ppm
Aeaboic	0y72	- 0.6S	- h.66	4S.Sh	- h.12	- .4S	ppm
BJeiNu	1- y71	46- .4P	46P.h0	4Py.1-	402.y-	2.- P	ppm
BJeiNu	1- 071	40S.2P	40S.62	4P6.62	40y.P4	1.h6	ppm
Bbe%wiNu	h71	2.SS	1.h2	1.Ph	1.h4	- .S-	ppm
Biau NtE	2Sh71				11S		G
Biau NtE	2Sh72				1S6		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	- .0h	2.04	- .24	- .26	16.11	ppm
UJdu iNu	1S671	7S.1S	71.2-	S.P1	7S.1P		ppm
UJdu iNu	11171	2.00	- .SP	- .Sh	2.hP	6.1y	ppm
UJwiNu	4- 71	4yP0- .2P	4P- 4P.1S	4601h.y1	46hPS.2h	2.6P	ppm
UJwiNu	4471	4P114.y1	yS- - y.1h	4P1hP.S-	4PPP2.y0	2.y0	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEwOeiob	- y71						cpa
UEwOeiob	- y72						cpa
UEeOu iNu	y272	- S.2y	- S.y1	- S.S6	- S.20	S.04	ppm
UOmJw	yh72	14.4-	14.66	14.0y	14.61	1.11	ppm
UOppbe	6- 72	01.S2	01.1P	0S.62	0S.h4	S.41	ppm
D%apeOaiNu	1y671						cpa
D%apeOaiNu	1y672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16y71				11S		G
MOw iNu	16y72				1S6		G
IodiNu	11y71				1SP		G
IodiNu	11y72				hh		G
IeOo	y472	- y260.60	- yh1P.64	- y0h6.- 4	- y66S.PP	S.h0	ppm
IeOo	y672	- ySS6.2h	- 464S.2P	- y141.S1	- 4h2h.1h	S.04	ppm
IeOo	y072	- 20S- .S6	- 204h.41	- - - h1.SP	- 2h40.Py	1.10	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	- PP.6P	- 0P.44	- h2.26	- P6.46	1.P6	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	- 0- .yh	- yh.06	- 6h.1y	- 60.yS	1.h2	ppm
LbJd	2SP71	- 06.16	- 6h.- y	- 0h.Py	- 0y.12	1.42	ppm
LitEiNu	671				hP		G
g JvobaiNu	2472	h02y.S6	h000.41	1SS46.00	hP4h.0y	1.0y	ppm
g JovJobab	yy72	12S6.h6	121h.- y	122- .01	1216.60	S.01	ppm
g O%mdboNu	h471	0.- 0	0.hh	P.1y	0.P4	y.2y	ppm
g O%mdboNu	hy71	2.2h	2.44	2.20	2.- -	- .hP	ppm
g O%mdboNu	h671	- .S4	- .S-	2.0S	2.h2	6.06	ppm
g O%mdboNu	h071	2.- y	2.- h	2.46	2.4S	2.- S	ppm
g O%mdboNu	hP71	2.- 0	2.- 0	2.41	2.- P	S.h1	ppm
8 bOd%u iNu	1yS71						cpa
8 bOd%u iNu	1yS72						cpa
8 ickbw	6S72	- S.yP	- S.4y	- 1.2P	- S.00	1.46	ppm
I EOapEOeNa	- 172	y422.16	y4S1.Py	y20P.Sh	y- 60.- 0	1.4y	ppm
I OtJaaiNu	- h72	h240.yh	h2P4.hS	hy1h.04	h- yS.04	1.yP	ppm
n EOdiNu	1S- 71				1S6		G
n EOdiNu	1S- 72				1S2		G
r cJodiNu	4y71				1S0		G
r cJodiNu	4y72				h6		G
r bwboiNu	P271	1.S1	S.64	1.- 4	1.SS	- 4.hP	ppm
r bwboiNu	0072	2P.20	- 1.12	- 0.P4	- 2.41	1y.16	ppm
r bwboiNu	0P72	0.h2	6.6S	0.hy	0.4h	1S.20	ppm
r iwcOo	2P71	2- 2.41	24S.2-	2- 4.0-	2- y.0h	1.0S	ppm
r iwRbe	1S071	1.SS	1.S2	1.Sy	1.S2	2.01	ppm
r iwRbe	1Sh71	S.h6	1.SS	S.hP	S.hP	1.h4	ppm
r OdiNu	2- 72	2- 2.4P	22y.12	222.4P	226.6h	2.2h	ppm
r teOotiNu	P671	- - 2.y1	- - h.0y	- - P.y6	- - 6.h4	1.1y	ppm
r teOotiNu	PP71	- 4P.S2	- 4P.21	- 4- .h-	- 46.02	S.0S	ppm
r NwNe	- 471	41.6-	yS6.PP	4S.y-	1h6.- 4	1- 6.h0	ppm
TbemiNu	1yh71				11S		G
TbemiNu	1yh72				1S-		G
TEJwiNu	2S- 71	S.44	S.4S	S.41	S.41	y.14	ppm
TEJwiNu	2Sy71	S.- h	S.41	S.4-	S.41	y.S6	ppm
Tio	11P71	0.yh	0.4h	0.6h	0.yh	1.- 1	ppm
TitJoiNu	4071	1P6.y0	1h0.04	1hS.- 4	1h1.yy	2.h0	ppm
F eJoiNu	2- P71	2.S0	2.Sy	2.16	2.Sh	2.0-	ppm

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Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 44072S	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4P	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:SS:12	DJtJCiwb 8 Ju b :	SP0An 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	y172	6S.hh	6S.6S	61.hh	61.1h	1.10	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Ph71				111		G
YtteiNu	Ph72				1S6		G
Zioc	6672	6SS.2P	yh- .6-	6S1.h-	yhP.61	S.0-	ppm
ZiecOoiNu	hS71	- .11	- .- 0	- .- 1	- .26	4.12	ppm
ZiecOoiNu	h171	- .- h	- .- P	- .2-	- .- -	2.yh	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
AwNu ioiNu	2072	1- 21- .- 1	1- Shh.12	12P2y.0P	1- S- 2.04	1.4P	ppm
Aotiu Oo%	12171	S.PP	S.PS	S.P0	S.Ph	4.0-	ppm
Aeaboic	0h72	- 4.10	- 6.12	- h.44	- h.24	2.P1	ppm
BJeiNu	1- h71	42- .16	- y4.1S	- y1.21	4S2.P2	4.- y	ppm
BJeiNu	1- 071	414.P0	- yP.4S	- P0.yh	4SS.41	- .- y	ppm
Bbe%wiNu	y71	1.6-	1.02	1.02	1.6y	2.P6	ppm
Biau NtE	2Sy71				1S0		G
Biau NtE	2Sy72				1Sh		G
BeOu iob	P171						cpa
UJdu iNu	1SP71	2.- 4	2.20	2.26	2.2y	1.0h	ppm
UJdu iNu	1S671	S.P0	71.02	1.40	S.21	P24.16	ppm
UJdu iNu	11171	2.06	2.6-	2.04	2.01	2.6h	ppm
UJwiNu	4- 71	2S62y.06	1yh21.66	1y2PP.- 0	1yP1- .20	- .62	ppm
UJwiNu	4471	21h- h.P4	2S- 1- .1h	2SS14.h0	2S621.1P	- .y1	ppm
UJemOo	1271						cpa
UJemOo	1272						cpa
UEWOaiob	- h71						cpa
UEWOaiob	- h72						cpa
UEeOu iNu	h272	1y.h4	1y.66	1P.Py	1y.- 6	2.12	ppm
UOmJw	hy72	14.44	14.4S	14.2P	14.- 0	S.hh	ppm
UOppbe	6- 72	hh.16	h- .PS	h- .P0	h4.2P	1.42	ppm
D%apeOaiNu	1h671						cpa
D%apeOaiNu	1h672						cpa
5emiNu	16471						cpa
5emiNu	16472						cpa
HJdOiwoiNu	16S71						cpa
HJdOiwoiNu	16S72						cpa
MOw iNu	16h71				1S6		G
MOw iNu	16h72				1Sh		G
IodiNu	11h71				1Sh		G
IodiNu	11h72				yy		G
IeOo	h472	- SSPy.21	2yPhh.2-	2yhy4.0P	2yP46.41	S.P-	ppm
IeOo	h672	- S226.2-	2y4S1.60	2yS- P.26	2yhhh.- y	2.S6	ppm
IeOo	h072	20061.h0	20002.41	20Sy1.P-	20h41.y4	1.42	ppm
Ke%ptOo	P- 71						cpa
LbJd	2S671	20S.y0	- S- .0-	2yh.- 0	2yS.S2	h.P0	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwbot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
LbJd	2S071	262.22	266.- 6	2h- .y0	26S.Ph	2.42	ppm
LbJd	2SP71	2Ph.- 6	2y2.20	2PP.0P	2PP.PS	1.2S	ppm
LitEiNu	671				y6		G
g JvobaiNu	2472	hS2y.4P	4y0S.4y	4P44.- h	4y4P.11	1.y1	ppm
g JovJobab	hh72	1S4S.2y	1S24.6P	1SSy.1P	1S24.01	1.h2	ppm
g O%mdboNu	y471	0.26	0.- y	0.26	0.- S	1.S1	ppm
g O%mdboNu	yh71	1.P0	1.y2	1.P4	1.P0	2.16	ppm
g O%mdboNu	y671	2.40	2.41	2.h1	2.46	2.S2	ppm
g O%mdboNu	y071	1.y6	1.y1	1.y1	1.y-	1.6S	ppm
g O%mdboNu	yP71	2.S6	1.y1	1.0-	1.yS	P.P2	ppm
8 bOd%u iNu	1hS71						cpa
8 bOd%u iNu	1hS72						cpa
8 ickbw	6S72	20.6S	2P.14	20.4h	20.0-	1.- S	ppm
I EOapEOeNa	- 172	41Sy.hS	- y1S.SP	41- 4.yS	4Sh1.4y	- .S4	ppm
I OtJaaiNu	- y72	60- S.0y	6016.26	6hy2.P4	660y.y0	1.1-	ppm
n EOdiNu	1S- 71				1S4		G
n EOdiNu	1S- 72				1S-		G
r cJodiNu	4h71				1S-		G
r cJodiNu	4h72				y6		G
r bwboiNu	P271	S.y-	S.P-	1.2h	1.SS	21.06	ppm
r bwboiNu	0072	- - .0y	4- .- 0	2S.26	- 2.40	- h.00	ppm
r bwboiNu	0P72	6.- 2	6.66	h.yS	6.2y	6.S2	ppm
r iwcOo	2P71	24h.0h	2- 6.0P	2- 4.yh	2- y.16	2.42	ppm
r iwRbe	1S071	S.0-	S.01	S.06	S.0-	- .1S	ppm
r iwRbe	1Sy71	S.P1	S.04	S.06	S.00	4.6h	ppm
r OdiNu	2- 72	106.h6	106.S4	10- .1h	10h.2h	1.Sh	ppm
r teOotiNu	P671	161.Ph	1hy.y0	1h0.P4	1hy.Py	1.26	ppm
r teOotiNu	PP71	104.S2	164.- 2	16P.2y	16P.PP	2.Py	ppm
r NwNe	- 471	761h.hS	7126S.- 2	71h16.h6	711- S.0y		ppm
TbemiNu	1hy71				1S0		G
TbemiNu	1hy72				1Sh		G
TEJwiNu	2S- 71	S.- 4	S.- 2	S.- 0	S.- 4	0.46	ppm
TEJwiNu	2Sh71	S.- 4	S.- -	S.- 2	S.- -	1.P0	ppm
Tio	11P71	P.SP	0.PP	0.0y	0.y2	1.yS	ppm
TitJoiNu	4071	14y.- 1	14- .Py	14- .01	14h.64	2.1y	ppm
FeJoiNu	2- P71	2.1y	2.1S	2.11	2.1-	2.- P	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe:	LB1264S0	3 pbeJtOe:	9Jas Jw
LJmr Ju pwb ID :	3 - 440721	IoateNu obt 8 Ju b :	I P
Uwibot r Ju pwb ID :	g MSC4y	DiwNtiOo CJctOe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 10:S- :S0	DJtJCiwb 8 Ju b :	SPPAn 5 C.d

I JeJu btbe	g Jaa	UOon bp1	UOon bp2	UOon bp-	ARv. UOoc.	UOocn r D	F oita
VJoJdiNu	h172	hh.P0	h4.yy	hh.06	hh.h4	S.P6	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				1Sy		G
YtteiNu	Py72				1Sh		G
Zioc	6672	4S2.S6	- y- .SS	- yS.yP	- yh.- h	1.4y	ppm
ZiecOoiNu	yS71	- .- -	- .- y	- .- S	- .- 4	1.- h	ppm
ZiecOoiNu	y171	- .- -	- .4S	- .6-	- .4h	4.6S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
c lumAnAum	2072	12800U16	1- 104U40	1- 21- U1	1- S88U1	1U4S	I I b
c n&mon%	12171	1U1	1U42	1U4S	1U8	4U90	I I b
c rsenAq	0972	61U5-	66U9-	69U2S	64U99	- U60	I I b
BarAum	1- 971	4S- US1	440U55	490U85	4- 6U S	6U0S	I I b
BarAum	1- 071	4S5U41	461U2-	498U86	44- U10	6U6S	I I b
Ber%lAum	571	1U51	2U18	2U16	2US8	0U28	I I b
BAsmu&E	2S571				114		G
BAsmu&E	2S572				1S9		G
BromAne	8171						ql s
v aOmAum	1S871	- U29	- U95	- U6S	- U48	9U08	I I b
v aOmAum	1S671	1U21	SU19	2U40	1U28	5SU52	I I b
v aOmAum	11171	2US6	2U40	2U40	2U-	1SU2-	I I b
v alqAum	4- 71	- 8S8SU21	4- 6S2U60	42946U54	414S5U54	0US8	I I b
v alqAum	4471	- 885SU69	4401SU52	44020U20	42006U28	0U80	I I b
v arbon	1271						ql s
v arbon	1272						ql s
v ElorAne	- 971						ql s
v ElorAne	- 972						ql s
v EromAum	9272	26U15	26U91	26U69	26U49	SU85	I I b
v obal&	9572	12U5-	1- U18	1- U98	1- U2-	2U40	I I b
v ol I er	6- 72	56U46	50U28	56U40	56U0-	SU45	I I b
t %sI rosAum	19671						ql s
t %sI rosAum	19672						ql s
. rbAum	16471						ql s
. rbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
h olmAum	16971				112		G
h olmAum	16972				1S4		G
DnOAum	11971				1S5		G
DnOAum	11972				50		G
Don	9472	- 252- U41	- - 525U44	- - 6- SU8	- - 454U41	1U94	I I b
Don	9672	- - 22- U46	- - 6- 4U16	- 295- U60	- - 19SU4-	1U98	I I b
Don	9072	- S010U25	- 1950U40	- S884U60	- 1S66U40	1U9S	I I b
Kr%l &on	8- 71						ql s
LeaO	2S671	159U9S	21SU0S	224U11	21SU1S	6U81	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAen&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
LeaO	2S071	188U06	2S4U0	219U15	2S2U08	6U99	I I b
LeaO	2S871	2S4U5	22SU01	2- 9U21	22SU11	0US1	I I b
LA&EAum	671				58		G
y aMhesAum	2472	1- - S0U08	1- 45- U18	1- 152U49	1- - - 1U14	1U14	I I b
y anManese	9972	1- 20US-	1- - 9U4S	1- - 2U25	1- - 1U90	SU2	I I b
y ol%bOenum	5471	1SU41	11U9S	11U86	11U29	6U0-	I I b
y ol%bOenum	5971	- U4-	- U98	- U64	- U99	- USS	I I b
y ol%bOenum	5671	4US-	4U41	4U46	4US	9U94	I I b
y ol%bOenum	5071	- U12	- U99	- U0-	- U40	5US9	I I b
y ol%bOenum	5871	- US	- U90	- U02	- U9-	6US-	I I b
NeoO%mAum	19S71						ql s
NeoO%mAum	19S72						ql s
NAqkel	6S72	- 2U40	- 2U85	- - U2S	- 2U89	1U12	I I b
PEosI Eorus	- 172	25- 6U5S	2848U56	2610U16	28S1US1	9U5S	I I b
Po&assAum	- 572	468SU1S	4612U45	46- SU54	4641U18	SU09	I I b
CEoOAum	1S- 71				1S0		G
CEoOAum	1S- 72				1S1		G
pqanOAum	4971				1S8		G
pqanOAum	4972				54		G
pelenAum	8271	1U68	1U6	1U45	1U91	1SU8S	I I b
pelenAum	0072	44U08	- 8U44	48US1	4- U04	11U1-	I I b
pelenAum	0872	1SU1	5U22	1SU94	1SUS2	0US9	I I b
pAAqon	2871	188U84	218U55	21SUS-	2S9U59	0U92	I I b
pAger	1S071	SU5-	1U12	1US5	1US9	5U95	I I b
pAger	1S571	1US-	1U19	1U14	1U11	6US2	I I b
poOAum	2- 72	482U54	450U1S	454U9S	451U91	1U9-	I I b
p&ona&Aum	8671	21- U99	220U48	2- 2U80	224U64	4U44	I I b
p&ona&Aum	8871	22SUS0	2- 1U89	244U0	2- 2U1S	9U2-	I I b
pulfur	- 471	71698U-	7608U94	7568U0S	711S1U86		I I b
i erbAum	19571				112		G
i erbAum	19572				1S4		G
i EallAum	2S- 71	SUS	SU9	SU5	SU9	1- US5	I I b
i EallAum	2S971	SU-	SU0	SU8	SU6	0U16	I I b
i An	11871	9U1-	9U80	9U80	9U62	0U95	I I b
i A&anAum	4071	189U4-	2S0U09	2S9U05	155U66	6U15	I I b
RranAum	2- 871	- US6	- U0	- U66	- U0	8U52	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440722	Dns&umne&Name :	P8
v lAn&pamI le D :	y h SF9S	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S6:S9	t a&aFAe Name :	S85c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gMUv onqU	v onqCpt	RnA&s
VanaOAum	9172	98U22	95U64	95USS	98U59	1U21	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8571				114		G
Y&&Aum	8572				1S9		G
ZAnq	6672	925U-1	9- 2U45	920U6-	925U81	SU40	I I b
ZAqonAum	5S71	4U91	4U08	4U84	4U01	- U0-	I I b
ZAqonAum	5171	4U46	4U59	9USS1	4U81	6U20	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
APmb inimb	23O2	N69J.N1	N693.6-	N36- .26	N6J- .93	O.6J	l l e
Antib ony	12101	O.16	O.2O	O.19	O.13	14.94	l l e
ASvr nic	39O2	N.63	N.- O	N.4-	N.43	2.1J	l l e
BsSmb	1- 901	2N3.- 1	236.13	231.4N	23N.- 2	2.J2	l l e
BsSmb	1- 301	2J1.JN	23N.N1	236.9O	2N2.4-	2.J6	l l e
Br SyPmb	J01	2.- 1	2.49	2.- N	2.- N	2.JJ	l l e
Biwb mth	2OJ01				1O6		%
Biwb mth	2OJO2				1O-		%
BSob inr	N101						cl w
Csdb imb	1ON01	1.O2	O.66	O.3-	O.NO	2- .J2	l l e
Csdb imb	1O601	2.6-	01.J6	0O.41	O.ON	236N.4N	l l e
Csdb imb	11101	O.N-	O.32	O.N1	O.3N	3.34	l l e
CsPimb	4- 01	63- 2.69	644O.29	62JJ.6O	64JO.N-	- .4O	l l e
CsPimb	4401	3O- O.N9	63- 1.2-	6NO3.34	6N96.61	2.23	l l e
CsSeon	1201						cl w
CsSeon	12O2						cl w
ChPSnr	- 901						cl w
ChPSnr	- 9O2						cl w
ChSob imb	92O2	3.19	3.29	3.2O	3.2O	O.66	l l e
CoesP	9JO2	6.- 4	6.- O	6.44	6.- 6	1.19	l l e
Col l r S	6- O2	14.12	1- .JN	14.16	14.OJ	O.63	l l e
XywI Sowimb	19601						cl w
XywI Sowimb	196O2						cl w
ESeimb	16401						cl w
ESeimb	164O2						cl w
GsdoPhimb	16O01						cl w
GsdoPhimb	16OO2						cl w
HoPb imb	16901				1O6		%
HoPb imb	169O2				1O9		%
Dndimb	11901				1O-		%
Dndimb	119O2				JJ		%
DSon	94O2	23- 69.N3	2NON2.11	2N- O9.3N	23J13.J2	1.36	l l e
DSon	96O2	266OJ.66	23- J3.63	2343J.O2	23162.12	1.33	l l e
DSon	93O2	291- 2.41	2911J.21	29J62.42	294O4.6N	1.JO	l l e
KSyl ton	N- 01						cl w
Lr sd	2O601	- 3.3-	- 3.22	- 6.11	- 3.O2	2.24	l l e

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Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l IP DX :	5 - 4430O- XL7 2	DnwtSmb nr t usb r :	8 N
CIPr nt psb l IP DX :	MHOF13	XiPrtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Lr sd	2O301	- 6.26	- 9.44	- 4.94	- 9.41	2.44	l l e
Lr sd	2ON01	- 3.N4	- 3.O-	- 6.O3	- 6.JN	2.4O	l l e
Lithimb	601				J6		%
Msgnr wimb	24O2	26N1.2-	264J.9-	26N2.43	2631.ON	O.3O	l l e
Msngsnr wr	99O2	19ON.3O	1919.6J	192- .4N	1919.J6	O.4J	l l e
MoPyedr nmb	J401	2.6O	2.NN	2.61	2.3O	6.O2	l l e
MoPyedr nmb	J901	1.29	1.2N	1.26	1.26	1.22	l l e
MoPyedr nmb	J601	1.9O	1.4-	1.4-	1.49	2.NO	l l e
MoPyedr nmb	J301	1.4O	1.22	1.42	1.- 9	N.ON	l l e
MoPyedr nmb	JN01	1.- O	1.29	1.29	1.23	2.- 6	l l e
u r odyb imb	19O01						cl w
u r odyb imb	19O02						cl w
u ickr P	6O02	11.4O	11.42	11.3O	11.91	1.46	l l e
8 howl hoSmw	- 1O2	6NJ.- 9	623.6N	6O3.J-	641.69	6.62	l l e
8 otswwimb	- JO2	4949.6O	49J6.42	4992.21	4964.39	O.61	l l e
Rhodimb	1O- 01				1O2		%
Rhodimb	1O- 02				1O-		%
p csndimb	4901				1O1		%
p csndimb	49O2				J9		%
pr IPnimb	N201	1.- 2	1.3-	1.- J	1.4N	14.3J	l l e
pr IPnimb	33O2	J6.- N	NJ.O6	JN.- 3	J4.6O	9.1N	l l e
pr IPnimb	3NO2	16.- J	16.6J	13.31	16.J-	4.11	l l e
piIPcon	2N01	12N.6J	121.41	113.6N	122.9J	4.93	l l e
piPr S	1O301	O.19	O.13	O.14	O.19	N.NN	l l e
piPr S	1OJ01	O.13	O.16	O.14	O.16	11.22	l l e
podimb	2- O2	4- .J3	- J.JJ	44.41	42.3J	9.6J	l l e
ptSontimb	N601	4- .16	44.O6	42.93	4- .26	1.3-	l l e
ptSontimb	NN01	4- .2-	42.31	42.24	42.3-	1.13	l l e
pmIPmS	- 401	011O- .22	0162N.NN	01J21.42	01991.13		l l e
Tr Seimb	19J01				1O9		%
Tr Seimb	19JO2				1O-		%
ThsIPmb	2O- 01	O.- O	O.- 1	O.29	O.2J	1O.1O	l l e
ThsIPmb	2O901	O.2J	O.2N	O.26	O.2N	- .N6	l l e
Tin	11N01	1.61	1.6O	1.9N	1.6O	O.N3	l l e
Titsnimb	4301	2N- .N6	2NO.11	23O.O6	23N.O1	2.93	l l e
USsnimb	2- N01	2.13	2.1-	2.1O	2.1-	1.3-	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiSd :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	ConRr l 1	ConRr l 2	ConRr l -	Avg. Conc.	ConcRp X	Unitw
Vsnsdimb	91O2	1J.O9	1J.N3	1J.6J	1J.94	2.21	l l e
Yttr Seimb	13201						cl w
Yttr Seimb	13202						cl w
Yttr Seimb	13601						cl w
Yttr Seimb	13602						cl w
YttSmb	NJ01				11J		%
YttSmb	NJ02				12O		%
Zinc	6602	16- .23	193.JN	166.J4	162.3-	2.33	l l e
ZiSconimb	JO01	OJ6	ONJ	OJO	OJ2	4.1-	l l e
ZiSconimb	J101	OJ-	ONI4	OJ2	OJO	9.63	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
CITeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
i lumTbTum	23O2	nO38.96	n864.23	11932.83	1O131.nO	12.94	ppb
i oDTmdoy	12101	O.19	O.16	O.19	O.19	2.- 1	ppb
i rseoTA	39O2	8.68	n.99	1O.88	n.3O	11.- 8	ppb
BarTum	1- 901	236.62	23n.99	2n1.12	282.4-	2.31	ppb
BarTum	1- 301	236.9n	286.29	288.- 4	28- .3-	2.21	ppb
BerylITum	n01	2.4-	2.44	2.41	2.4-	O.4n	ppb
BTsmuDn	2Onn01				11O		%
BTsmuDn	2Onn02				n6		%
BrdmTbe	8101						Aps
CaqmTum	1O801	O.62	1.O8	O.33	O.8-	28.8-	ppb
CaqmTum	1O601	1.- 4	0O.34	0O.n2	0O.11		ppb
CaqmTum	11101	O.8O	O.36	O.83	O.81	6.6n	ppb
CalATum	4- 01	6- nn.O2	6- - 6.83	66O8.9O	6448.1-	2.21	ppb
CalATum	4401	68nO.36	6n91.n-	6839.n2	6nO6.2O	O.98	ppb
Carbdo	1201						Aps
Carbdo	1202						Aps
ChldrTbe	- 901						Aps
ChldrTbe	- 902						Aps
ChrdmTum	9202	3.- 9	3.nn	n.39	8.- 6	14.88	ppb
CdbalD	9nO2	6.48	6.nn	8.- n	3.28	1- .96	ppb
Cdpper	6- 02	1- .46	14.68	13.24	19.1-	12.39	ppb
XysprdsTum	19601						Aps
XysprdsTum	19602						Aps
ErbTum	16401						Aps
ErbTum	16402						Aps
GaqdlTbTum	16O01						Aps
GaqdlTbTum	16O02						Aps
HdlmTum	16901				111		%
HdlmTum	16902				nn		%
IoqTum	11901				1O6		%
IoqTum	11902				n2		%
Irdo	9402	2n33- .63	- 2- - - .81	- 3644.43	- - 29O.69	12.O3	ppb
Irdo	9602	2846n.- 9	- 2133.8n	- 346n.3-	- 23O9.69	1- .8-	ppb
Irdo	9302	2681- .3-	2n89n.O2	- 466O.86	- O444.94	12.nn	ppb
KrypDlo	8- 01						Aps
Leaq	2O601	- 8.O2	- 3.82	- 3.n6	- 3.n-	O.26	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
Leaq	2O301	- 9.66	- 9.1O	- 3.4n	- 6.On	- .46	ppb
Leaq	2O801	- 3.33	- 3.On	- 8.93	- 3.81	1.n9	ppb
LTDTum	601				1O1		%
MagoesTum	24O2	2688.41	2881.32	- - 99.O-	2n39.O9	11.9-	ppb
Maogaoese	99O2	1994.8-	13On.44	2O16.O1	136O.On	1- .- 4	ppb
Mdlybqeoum	n401	2.69	2.99	2.92	2.93	2.6-	ppb
Mdlybqeoum	n901	1.41	1.2-	1.- 4	1.- -	6.86	ppb
Mdlybqeoum	n601	1.4n	1.4O	1.4-	1.44	- .O9	ppb
Mdlybqeoum	n301	1.28	1.22	1.29	1.29	2.13	ppb
Mdlybqeoum	n801	1.- 1	1.2n	1.- O	1.- O	O.82	ppb
NedqymTum	19O01						Aps
NedqymTum	19O02						Aps
NTAkel	6O02	11.3O	12.8n	14.36	1- .12	11.38	ppb
Phdsphdrus	- 102	9- O.O3	6O6.4-	39O.31	62n.O3	13.81	ppb
PdDassTum	- nO2	4214.1n	46- - .36	9424.96	4393.9O	12.n2	ppb
RhdqTum	1O- 01				1O3		%
RhdqTum	1O- 02				n6		%
SAaoqTum	4901				1O3		%
SAaoqTum	49O2				8n		%
SeleoTum	8201	1.91	1.61	1.6-	1.98	4.14	ppb
SeleoTum	33O2	84.- -	88.3O	1O9.8-	n2.n9	12.2-	ppb
SeleoTum	38O2	1n.11	2O.96	24.99	21.41	1- .19	ppb
STTAdo	2801	1- 1.n1	126.3O	1- 6.69	1- 1.39	- .38	ppb
STver	1O301	O.19	O.16	O.19	O.16	9.14	ppb
STver	1On01	O.16	O.16	O.1n	O.13	11.46	ppb
SdqTum	2- 02	8- .OO	n4.21	1- 2.O6	1O- .On	24.n4	ppb
SDdoDTum	8601	49.89	44.O6	49.98	49.13	2.1-	ppb
SDdoDTum	8801	44.n2	4- .31	49.6-	44.39	2.13	ppb
Sulfur	- 401	022n2.O8	02941.13	02- n1.49	024O8.2-		ppb
&erbTum	19n01				11O		%
&erbTum	19n02				n3		%
&hallTum	2O- 01	O.2n	O.23	O.2n	O.28	- .- 8	ppb
&hallTum	2O901	O.23	O.2n	O.23	O.28	- .nn	ppb
&TD	11801	2.- 1	2.4-	2.98	2.44	9.96	ppb
&TaoTum	4301	282.3n	238.22	283.49	282.82	1.6-	ppb
UraoTum	2- 801	2.O3	2.16	2.12	2.12	2.1n	ppb

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDTio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CdoRep1	CdoRep2	CdoRep-	i vg. CdoA	CdoARSX	UoTs
VaoaqTum	91O2	1n.nn	21.4-	29.12	22.18	11.n-	ppb
YDerbTum	13201						Aps
YDerbTum	13202						Aps
YDerbTum	13601						Aps
YDerbTum	13602						Aps
YDDTum	8n01				12-		%
YDDTum	8n02				111		%
ZTbA	6602	163.23	189.12	214.92	188.n3	12.6-	ppb
ZTAdoTum	nO01	O.86	O.88	O.n1	O.8n	2.68	ppb
ZTAdoTum	n101	O.n4	O.88	O.82	O.88	6.n4	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTop:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr Tu wb r :9	Na
v 8r nTl wb D8 :t&:9	y h SF2-	&8mTon:FwqTop:9	1
&wTr :i :Adb r : qdmqpr O.9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FUD

Nwpwb r Tr p	y wl l	v onCr D1	v onCr D2	v onCr D-	gMU:v onqU	v onqCl &	RndT
8mb cncmb	2072	1S10aU46	1S245U21	1S1SaU5J	1S10aUa0	SU65	DDe
nTb on%	12171	SUJ5	SU61	SU6a	SU6-	0U02	DDe
pl r ncq	0J72	1JU0S	1JU5J	16U15	1JU5J	1UJ-	DDe
Bwpcmb	1- J71	202U06	206U0a	251Ua-	2aSU46	- UJ5	DDe
Bwpcmb	1- 071	20JU1S	205U42	25aUSJ	2a4U15	4U25	DDe
Br p%8cmb	571	2U40	2U4a	2U62	2UJ2	- U24	DDe
Bdl b mlE	2S571				11S		G
Bdl b mlE	2S572				1SJ		G
Bpob cnr	a171						qDl
v wOb cmb	1Sa71	2U02	1U54	2U6-	2U4-	10UJ0	DDe
v wOb cmb	1S671	1U-1	SU6a	7SUS0	SU64	1SaU-2	DDe
v wOb cmb	11171	1U2S	1U-0	1U2J	1U20	6U6S	DDe
v w8qcmb	4- 71	22- 0aU0a	22645Ua4	24124U26	2- SJSU56	4USa	DDe
v w8qcmb	4471	2- 4- 5UJ5	2- JJ2U16	24041U01	2- 511U1J	- US2	DDe
v wpeon	1271						qDl
v wpeon	1272						qDl
v E8pcnr	- J71						qDl
v E8pcnr	- J72						qDl
v Epob cmb	J272	14Ua1	14U6a	1JUS6	14UaJ	1U25	DDe
v oewBT	J572	1SU61	1SU-6	1SUJJ	1SUJ1	1U24	DDe
v oDDr p	6- 72	2aU0S	2aUJ1	2aUaS	2aU60	SUJ-	DDe
&%Dpol cmb	1J671						qDl
&%Dpol cmb	1J672						qDl
. pecmb	16471						qDl
. pecmb	16472						qDl
HwOo8ncmb	16S71						qDl
HwOo8ncmb	16S72						qDl
h o8b cmb	16J71				11-		G
h o8b cmb	16J72				1S4		G
tnOcmb	11J71				1Sa		G
tnOcmb	11J72				50		G
tpon	J472	20J46U10	20145U55	260- - UJ-	2014- U2-	1UJS	DDe
tpon	J672	26265U-J	20SJ1U15	26224U-1	26J14U5J	1U0J	DDe
tpon	J072	24aJ4U55	2J201U02	24515U2S	2JS1JU-S	SU5S	DDe
Kp%DTon	a- 71						qDl
Lr wO	2S671	5SU1S	52U4-	5- U52	52U1J	2US5	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTI wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O.9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FUD

NwpwbrTrp	ywll	vonCrD1	vonCrD2	vonCrD-	gMUvonqU	vonqCI &	RndT
LrwO	2S071	a6U45	a0Ua4	51U25	aaUJ4	2U05	DDe
LrwO	2Sa71	a5U11	a5UJ0	52U01	5SU40	2U10	DDe
LdEomb	671				1SS		G
ywMhrlomb	2472	6J16U16	64J-U02	640SU44	64aSU11	SUJS	DDe
ywnMwnrlr	JJ72	JJ4U1J	J61U6S	JJ2U1a	JJJU5a	SUa5	DDe
yo8%eOrnmb	5471	21U06	22UJ4	2-U0S	22U60	4U25	DDe
yo8%eOrnmb	5J71	1UJJ	1UJ5	1U40	1U4S	4UJ2	DDe
yo8%eOrnmb	5671	-UJ4	-UJ4	-U65	-UJ-	4U5-	DDe
yo8%eOrnmb	5071	1UJ4	1U21	1UJS	1UJJ	1SU6a	DDe
yo8%eOrnmb	5a71	1U24	1U26	1U4-	1UJ1	aUS2	DDe
uroO%bomb	1JS71						qDl
uroO%bomb	1JS72						qDl
uqkr8	6S72	21U12	2SU4J	21U1J	2SU51	1U51	DDe
NEolDEopml	-172	246aU5S	2462U24	2-25U02	242SU25	-U24	DDe
NoTwlomb	-572	J-S2USO	J-21U6a	J424U6-	J-45U46	1U2-	DDe
CEoOomb	1S-71				1S6		G
CEoOomb	1S-72				1S2		G
lqwnOomb	4J71				1S6		G
lqwnOomb	4J72				5J		G
lr8nomb	a271	1US1	SUa5	1UJ1	1U14	25US1	DDe
lr8nomb	0072	4SUa5	4-U1S	-6US1	4SUSS	5USO	DDe
lr8nomb	0a72	11U6J	1SUJS	5US6	1SUJ4	12UJ0	DDe
lo8qon	2a71	2SJU5S	2SaUJ0	22-U1-	212U40	4UJa	DDe
lo8grp	1S071	SUJJ	SUJS	SUJ-	SUJ2	4Ua4	DDe
lo8grp	1S571	SU4a	SU62	SUJ4	SUJJ	12U0a	DDe
loOomb	2-72	146U22	146USJ	146USS	146US5	SUSa	DDe
lTponTomb	a671	1S-USO	1S6UJ4	11-U1-	1S0UJa	4U0J	DDe
lTponTomb	aa71	1S5U5-	11SUJ4	115U05	11-U42	4Ua0	DDe
lm8mp	-471	71-a4U41	7125-U6S	7J11U45	71S6-U10		DDe
Arpeomb	1J571				111		G
Arpeomb	1J572				1S-		G
AEw8omb	2S-71	SU2S	SU2S	SU22	SU21	6USS2	DDe
AEw8omb	2SJ71	SU22	SU2S	SU22	SU21	6U2-	DDe
Aon	11a71	4UJ-	-U16	-UJ1	-U60	16U4-	DDe
AdTwnomb	4071	1J0USS	1J0U22	164U11	1J5U44	2UJ4	DDe
Rpwnomb	2-a71	2U66	2U64	2U05	2U0S	-USS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTbp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 4407S0	tnl Tpmb nr T:u wb r :9	Na
v 8r nTl wb D8 :t&:9	y h SF2-	&8mTon:FwqTbp:9	1
&wTr :i :Adb r : qdmqpr O:9	2S2- 7S0712:109149Ja	&wTwFd8 :u wb r :9	S52 C. FU0

NwpwbrTrp	y wl l	v onCr D1	v onCr D2	v onCr D-	gM:v onqU	v onqCl &	RndT
VwnwOcmb	J172	- 5U44	- 5U46	4SU46	- 5U05	1U40	DDe
YTTr pecmb	10271						qDl
YTTr pecmb	10272						qDl
YTTr pecmb	10671						qDl
YTTr pecmb	10672						qDl
YTTpcmb	a571				11-		G
YTTpcmb	a572				1S6		G
Zcnq	6672	021Ua5	0- SU14	0- 1U2-	020U0J	SU0S	DDe
Zcpqonmb	5S71	11UJ6	12USS	12Ua1	12U12	JU24	DDe
Zcpqonmb	5171	11Ua5	11U50	12U05	12U22	4U1S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129I0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	SF06	1F S	2F2S	1F62	46F81	l l b
c5&Amn5h	121:1	SF51	SF51	SF51	SF51	70F74	l l b
crwe5Aq	0-:2	SF57	:SF51	SF5S	SF51	7-SF87	l l b
BsrAum	17-:1	SF51	SF58	SF50	SF5-	06F17	l l b
BsrAum	170:1	SF56	SF51	SF56	SF54	02F 0	l l b
BerhFAum	:1	SF5S	SF51	SF51	SF51	42F 0	l l b
BAumu&%	2S :1				1S		E
BAumu&%	2S :2				-		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	:SF14	:SF1S	:SF52	:SF5		l l b
CsOmAum	1S6:1	:4F64	:6F08	: F56	:6F87		l l b
CsOmAum	111:1	:SF57	:SF50	:SF1S	:SF50		l l b
CsRqAum	47:1	:SF06	7F22	11F1	4F-	177F0-	l l b
CsRqAum	44:1	:1F 1	2F6S	F68	7F46	168F S	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	SF5-	SF20	SF1S	SF14	86F6-	l l b
CnbsR&	- :2	SF51	SF5S	SF5S	SF5S	60SF S	l l b
CnI I er	67:2	SF1-	SF74	SF10	SF22	40F62	l l b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				1S		E
HnRmAum	16-:2				4		E
D5OAum	11-:1				1S		E
D5OAum	11-:2				8		E
Dn5	-4:2	1F2-	2F1-	7F40	2F2	48F00	l l b
Dn5	-6:2	SF46	1F02	4F22	2F17	8 F0	l l b
Dn5	-0:2	:1F77	2F 8	0F7S	2F 8	144F67	l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF52	SF51	SF54	SF52	07F87	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 7BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5 2	SF5 0	SF5-	SF5 4	-4F18	I I b
LesO	2S8:1	SF5 4	SF5 7	SF5 7	SF5 7	7F8S	I I b
LA&%Aum	6:1						E
y sM5ewAum	24:2	SF6	SF-8	1F88	1F5-	68F7	I I b
y s5Ms5ewe	- - :2	SF5 6	SF14	SF18	SF17	4 F77	I I b
y nPbOe5um	4:1	SF5S	SF5 1	SF5-	SF5 2	14SF5 8	I I b
y nPbOe5um	- :1	SF5S	SF5S	SF5 7	SF5 1	127F5 8	I I b
y nPbOe5um	6:1	SF5 2	SF5S	SF5 7	SF5 2	0 F-6	I I b
y nPbOe5um	0:1	SF5 7	SF5 1	SF5 2	SF5 2	-0F-7	I I b
y nPbOe5um	8:1	SF5 1	SF5S	SF5 1	SF5S	- F-6	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	:SF5 2	SF5S	SF5 6	SF5 1	2-4F1S	I I b
3%nwl %nruw	71:2	:0SF-7	:-SF06	:4 F81	:-0F5 7		I I b
3n&swwAum	7 :2	:11F22	28F07	:8F08	2F 1	06 F72	I I b
v %nOAum	1S7:1				1S0		E
v %nOAum	1S7:2				7		E
pqs5OAum	4- :1				1S-		E
pqs5OAum	4- :2				8-		E
pe&e5Aum	82:1	:SF71	:SF28	:SF-8	:SF7		I I b
pe&e5Aum	00:2	:SF78	:SF78	SF0	SF5 1	64 2F46	I I b
pe&e5Aum	08:2	:SF41	SF78	SF12	SF5 7	1461F6-	I I b
pAqn5	28:1	:SF7S	:SF20	:SF24	:SF20		I I b
pAger	1S0:1	SF5 2	SF5 2	SF5 1	SF5 2	48F8S	I I b
pAger	1S :1	SF5 1	SF5 1	SF5 1	SF5 1	14F54	I I b
pnOAum	27:2	:14F-8	10F-1	:14F6-	:7F S		I I b
p&n5&Aum	86:1	:SF5 4	SF5 7	SF17	SF5 4	21 F84	I I b
p&n5&Aum	88:1	SF5 2	SF5 2	SF5-	SF5 7	02F	I I b
pufur	74:1	:2 61F60	:2678F1-	:2448F5 7	:2682F62		I I b
i erbAum	1- :1				1S8		E
i erbAum	1- :2				2		E
i %sPAum	2S7:1	SF5 4	SF5 2	SF5-	SF5 4	78F12	I I b
i %sPAum	2S-:1	SF5 2	SF5 7	SF5 7	SF5 7	14F2S	I I b
i A5	118:1	:SF5 7	SF5S	SF5S	:SF5 1		I I b
i A&5Aum	40:1	SF5S	SF5 1	:SF5	:SF5 2		I I b
Rrs5Aum	278:1	SF5S	SF5S	SF5S	SF5S	2 1F64	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1- 7 7BL	D5w&um5e&Nsme9J	3 8
CFe5&psml Re9D 9J9	3Bp 7	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:129l0J1 J-4	t s&sUAe9Nsme9J	S 7CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	- 1:2	:SF5S2	SF5S1	SF5S2	SF5S1	266F20	l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				1S6		E
Y&&Aum	8 :2				8		E
ZA5q	66:2	SF5	SF17	SF20	SF16	- F4S	l l b
ZAqn5Aum	S:1	SF5S1	SF5SS	SF5SS	SF5SS	160F2	l l b
ZAqn5Aum	1:1	:SF5S1	:SF5S2	SF5S1	SF5SS		l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J10a22a-	t w&WJA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c 8mb A5Amb	2092	77F6-	72FNS	7NF0N	7-FSN	F22	l l e
c 5&b n5h	12191	7F4S	2F 7	7F10	7F10	0F71	l l e
cpl r 5Aq	0-92	1F07	1F0N	1FN2	1F0N	2F64	l l e
BwpAmb	17-91	10F4S	1-F40	16F-N	16F4N	-FNN	l l e
BwpAmb	17091	10F14	1-F42	1-FN2	16F17	-F-N	l l e
Br ph8Amb	91	1F0-	1F64	1F-4	1F64	6F47	l l e
BAb m8%	2S 91				1S2		E
BAb m8%	2S 92				1S4		E
Bpmb A5r	N191						qll
CwOb Amb	1SN91	1F40	1F7	1FN1	1F-6	14F4	l l e
CwOb Amb	1S691	97FS-	94FS6	97F76	97F4		l l e
CwOb Amb	11191	1FN	1F6S	1F6S	1F0S	F6-	l l e
Cw&pAmb	4791	N11F0	04NF-N	0SNFS6	0-6F20	6F 1	l l e
Cw&pAmb	4491	N7SF77	077F04	02SF6N	061F-N	0FN6	l l e
Cwpen5	1291						qll
Cwpen5	1292						qll
C%8np5r	7-91						qll
C%8np5r	7-92						qll
C%pmb Amb	-292	7F72	7F7N	7F2N	7F77	1F-	l l e
Cnew&&	- 92	1F04	1F02	1F00	1F04	1F7	l l e
CnI l r p	6792	7F64	7F66	7F0S	7F60	SFN7	l l e
t hl l pnl Amb	1-691						qll
t hl l pnl Amb	1-692						qll
. peAmb	16491						qll
. peAmb	16492						qll
GwOn8&5Amb	16S91						qll
GwOn8&5Amb	16S92						qll
Hn8b Amb	16-91				1S2		E
Hn8b Amb	16-92				1S7		E
D5OAmb	11-91				1S1		E
D5OAmb	11-92				N		E
Dpn5	-492	776F-	7-4F66	740FNS	746F74	2F64	l l e
Dpn5	-692	741F60	746F1S	74 F27	74-F60	1F1S	l l e
Dpn5	-092	74-F61	77NF1S	74-F-N	747F1S	1F26	l l e
Kphl 8a5	N791						qll
LrwO	2S691	1F04	1F-4	1F44	1F-N	F-7	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l 8pmb 5r &uwb r Ja	3N
C8A5&l wb l 8 JD JaJ	LC: 7	t A8m8A5JUwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J10a22a-	t w&wUA8 Juwb r Ja	S 4LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F66	1F-7	1F-1	1F-0	4F N	l l e
Lr wO	2SN91	1F6N	1F-7	1F4	1F-0	6F40	l l e
LA%Amb	691				4		E
y wW5r l Amb	2492	N6NF42	N61F0S	N00FS	N6 FS0	SFN	l l e
y w5Mw5r l r	- - 92	1FN6	1F0S	1F S	1FN2	- F60	l l e
y n8neOr 5mb	491	F6-	NF 6	NF16	NF 7	NF7-	l l e
y n8neOr 5mb	- 91	NFS1	0F-0	6F 4	0F-S	0F10	l l e
y n8neOr 5mb	691	NF7	0F40	0F-6	0FN1	6F4	l l e
y n8neOr 5mb	091	NF61	0F64	0F62	0F 6	0FSN	l l e
y n8neOr 5mb	N91	NF1S	0F66	0FS1	0F-	0F24	l l e
u r nOhb Amb	1- S91						ql l
u r nOhb Amb	1- S92						ql l
u Aqkr 8	6S92	1F66	1F0	1FN6	1F00	- F06	l l e
3 %nl l %npm	7192	966F42	94 F- -	904F71	967F47		l l e
3 n&wl Amb	7 92	0NSF6S	0 4F12	N2SF67	0 NF4-	2F- -	l l e
v %nOAmb	1S791				1S2		E
v %nOAmb	1S792				1S7		E
: qw5OAmb	4- 91				N		E
: qw5OAmb	4- 92				4		E
: r 8 5Amb	N291	F-2	FSN	0F00	NF0	1SF70	l l e
: r 8 5Amb	0092	NF 7	6F4N	1SF 4	NF0N	2- F41	l l e
: r 8 5Amb	0N92	0F01	FS2	- F2N	0F74	2- F S	l l e
: A8qn5	2N91	1F7-	SFN7	SF0-	SF N	77F20	l l e
: A8gr p	1S091	1F02	1F-	1F60	1F66	4FS7	l l e
: A8gr p	1S 91	1F04	1F-4	1F62	1F64	6F22	l l e
: nOAmb	2792	N2- FN6	N1NF76	N70F14	N20F12	1F14	l l e
: 8pn5&Amb	N691	1F02	1F62	1F6	1F60	7FS-	l l e
: 8pn5&Amb	NN91	1F04	1F60	1F-7	1F6-	6F61	l l e
: m8mp	7491	9126SF42	92120F2	92774F6S	91 S0F44		l l e
i r peAmb	1- 91				1S7		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F6	1F-1	1F-6	1F-	- FN	l l e
i %w8Amb	2S- 91	1F6-	1F4N	1F4N	1F-4	6F77	l l e
i A5	11N91	SFS	SFSS	9SFS7	SFS2	740F1	l l e
i A&w5Amb	4091	NF 2	0F67	0F-S	NFS2	F0N	l l e
Rpw5Amb	27N91	1F-N	1F46	1F42	1F4N	- F4N	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 7B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 7	t A8m8A5JJwq8apJa	1
t w&JTJ A8 r Jc qdmA8r QJa	2S279S0912J10a22a-	t w&WJA8 Ju wb r Ja	S 4LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	NF6S	NF-4	NFN7	NF66	1F00	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91						E
Y8&pAmb	N 92				N		E
ZA5q	6692	NF61	NFN1	NF06	NF02	1F1N	l l e
ZAqn5Amb	S91	1F64	1F4N	1F-6	1F-6	-FS0	l l e
ZAqn5Amb	191	1F60	1F-	1F-S	1F-0	-F6S	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fldl

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
AlNu ioiNu	20 2	215n6U6-	2S542U-1	21- n7U7n	2110nU27	2U65	ppm
Aotiu Oo%	121 1	SU7-	SU01	SU60	SU04	11U51	ppm
Aesboic	05 2	10U51	10U50	17U-5	10U71	2U61	ppm
BaeiNu	1- 5 1	- 4nUS1	- 2SUn5	- S7U10	- 26US4	6U41	ppm
BaeiNu	1- 0 1	- 5- U-4	- 2SU02	- 11US4	- 27U-0	6U05	ppm
Bbe%liNu	n 1	2US6	1Un0	1U74	1Un6	5U6S	ppm
Bisu NtE	2Sn 1				1S-		G
Bisu NtE	2Sn 2				1S0		G
BeOu iob	71 1						cps
v adu iNu	1S7 1	1U2S	1U17	1U14	1U10	2U72	ppm
v adu iNu	1S6 1	SU14	- U22	- U24	2U2S		ppm
v adu iNu	111 1	1U-1	1US5	1USS	1U12	15U17	ppm
v alciNu	4- 1	- 2612U50	2n- 07USS	277- - US-	- S204U54	6U05	ppm
v alciNu	44 1	- - 66nU45	2nn57U-1	2n1n0U10	- Sn41U65	0U0-	ppm
v aemOo	12 1						cps
v aemOo	12 2						cps
v ElOeiob	- 5 1						cps
v ElOeiob	- 5 2						cps
v EeOu iNu	52 2	26U77	26US5	26U57	26U5S	1U5n	ppm
v Omalt	5n 2	15U1S	14U64	15U06	15U10	- U02	ppm
v Oppbe	6- 2	- nU55	- 7US2	4SUn5	- nU51	- U0S	ppm
D%speOsiNu	156 1						cps
D%speOsiNu	156 2						cps
. emiNu	164 1						cps
. emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
h Olu iNu	165 1				1S5		G
h Olu iNu	165 2				1S5		G
IodiNu	115 1				1S-		G
IodiNu	115 2				1SS		G
IeOo	54 2	46- 71U-7	4515nU6n	40S00US2	462S6US-	2U1S	ppm
IeOo	56 2	45502U25	440S6U2n	46055U42	45600Unn	2U25	ppm
IeOo	50 2	46650U56	444S0Un6	406n0U16	46254U2-	- U6-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	6- U6-	50U1-	5- U00	57U17	7U61	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fud

Paeau btbe	y ass	v OoCbp1	v OoCbp2	v OoCbp-	AgMUv OocU	v OocCr D	Roits
Lbad	2S0 1	6SU4-	54U46	52U1n	55U6n	0U64	ppm
Lbad	2S7 1	61U57	55U7S	5- U14	56U74	0U5n	ppm
LitEiNu	6 1				nn		G
y aMobsiNu	24 2	1- S- 4U05	12222U-n	12n64U25	1204SU46	- U5-	ppm
y aoMaobsb	55 2	n1nUhn	nS4U64	n40U27	n2- Uh0	2U-4	ppm
y Ol%mdboNu	n4 1	7US1	0U1S	0U-S	0U40	6U44	ppm
y Ol%mdboNu	n5 1	2U21	2U11	2USS4	2U12	- Uh1	ppm
y Ol%mdboNu	n6 1	2U71	2U44	2U61	2U62	0U10	ppm
y Ol%mdboNu	n0 1	2U1S	1Uhn	2U14	2USS0	- U67	ppm
y Ol%mdboNu	n7 1	2U-0	1U7n	1Uh5	2USS0	12U04	ppm
8 bOd%u iNu	15S 1						cps
8 bOd%u iNu	15S 2						cps
8 ickbl	6S 2	- nUS1	- 7U44	4SUhS	- nU45	- U20	ppm
PEOspEOeNs	- 1 2	1n16U47	1015U62	1752U1S	1727USS0	5U61	ppm
POtassiNu	- n 2	6- 06U67	6122USS0	6467USS4	6- 22U26	2U74	ppm
CEOdiNu	1S- 1				1S1		G
CEOdiNu	1S- 2				1S4		G
r caodiNu	45 1				1S1		G
r caodiNu	45 2				n7		G
r blboiNu	72 1	1Uh6	2U21	1Uh4	2USS4	0U-0	ppm
r blboiNu	00 2	- 7US1	47USS7	45U1-	4- U04	11U74	ppm
r blboiNu	07 2	7U04	7U60	1SU70	nU4-	1- U2n	ppm
r ilicOo	27 1	2S- U44	17- U-n	171Uhn	17nU61	6U-	ppm
r ilgbe	1S0 1	SU-6	SU-1	SU27	SU-2	12U05	ppm
r ilgbe	1Sn 1	SU-0	SU-1	SU27	SU-2	14U60	ppm
r OdiNu	2- 2	161U17	147U-n	156U12	155U2-	4U15	ppm
r teOotiNu	76 1	1- 2U16	117U6-	115U-S	122USS-	0U-2	ppm
r teOotiNu	77 1	1- 4U14	124U70	117U-n	125U7S	6U2n	ppm
r NfNe	- 4 1	2U77	1S6- U75	1152U47	0- nU04		ppm
TbemiNu	15n 1				1S5		G
TbemiNu	15n 2				1S5		G
TEalliNu	2S- 1	SU6S	SU56	SU4n	SU55	1SU4-	ppm
TEalliNu	2S5 1	SU57	SU5-	SU5S	SU54	0U05	ppm
Tio	117 1	1Uh4	1U65	1U65	1U04	nU50	ppm
TitaoiNu	40 1	1- 0U7n	122U56	12SU5n	120USS1	0U45	ppm
ReaoiNu	2- 7 1	2U54	2U-	2U24	2U-0	6U46	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 12	IosteNu obt:8 au b:9	P7
v libot:r au plb:ID:9	y h SF67	DilNtiOo:FactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109269SS	DataFilb:8 au b:9	Sn5AC. Fld

Paeau btbe	y ass	v CoCbp1	v CoCbp2	v CoCbp-	AgMJv CocU	v CocCr D	Roits
VaoadiNu	51 2	60U65	65U-	60U07	66U12	2U56	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				1S0		G
YtteiNu	7n 2				11-		G
Zioc	66 2	250U44	247U6-	262U5S	256U1n	2U04	ppm
ZiecCoiNu	nS 1	- U64	- U12	- U57	- U27	nU45	ppm
ZiecCoiNu	n1 1	- U-0	- U17	- U56	- U2S	4U70	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ro&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
cRmAAm	20 2	2S4- 0U57	22524U60	21466U6J	216S5U00	JU07	l l b
cn&mon%	121 1	SU64	SU01	SU6S	SU6J	7U7J	l l b
crwenAq	0J 2	10U-6	2SU-1	17U47	17U02	0U5J	l l b
BsrAm	1- J 1	- SJU52	- 15U5J	- S7U40	- 11U4J	2U4S	l l b
BsrAm	1- 0 1	- S5U51	- 2JU22	- SJU4-	- 1- UJ2	- U1	l l b
Ber%RAm	5 1	1U74	1U72	1U71	1U72	SU54	l l b
BAmu&E	2S5 1				1S0		G
BAmu&E	2S5 2				1SJ		G
BromAe	71 1						ql w
v sOmAm	1S7 1	SU57	1U-1	1U2J	1U17	1JU12	l l b
v sOmAm	1S6 1	2U75	SU25	4UJ5	2U4S		l l b
v sOmAm	111 1	1US-	1US7	1US-	1USJ	2U07	l l b
v sRqAm	4- 1	27140U27	25677U76	26547U26	27261U40	4U76	l l b
v sRqAm	44 1	254JSU-7	- S02SU0-	27J- SUSS	25J60US4	- U02	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	- J 1						ql w
v ERrAe	- J 2						ql w
v EromAm	J2 2	2JU-5	27U77	20U60	20U-1	6U45	l l b
v obsR&	J5 2	14U71	16UJS	1JU6-	1JU6J	JU-5	l l b
v ol l er	6- 2	- 7U44	42UJ0	41USS0	4SU65	JU1J	l l b
t %w l rowAm	1J6 1						ql w
t %w l rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
h oRmAm	16J 1				1S5		G
h oRmAm	16J 2				1SJ		G
DrOAm	11J 1				1S7		G
DrOAm	11J 2				55		G
Don	J4 2	4J042U45	JS11SU46	47- 51U25	47S71U41	4UJ7	l l b
Don	J6 2	4- 50JU61	45J52U1J	46616U-6	46027US4	6US1	l l b
Don	J0 2	4450- USS	457- - U60	4025JU1-	40- 60U20	JU1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J6U7-	J6U1J	JJU-	J6U11	1U-4	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	J-U65	J2U77	J1U51	J2U72	1U65	l l b
LesO	2S7 1	J4U56	J4U55	J-UJ2	J4U45	1UJJ	l l b
LA&EAum	6 1				1S2		G
y sMnewAum	24 2	12S0-U5S	1-2-JU21	12652UJ2	12660U14	4UJ5	l l b
y snMsnewe	JJ 2	775U7S	1SS5U21	546U01	547UJ7	6UJS	l l b
y oP%bOenum	54 1	0U14	0US0	6U5-	0USJ	1U47	l l b
y oP%bOenum	5J 1	1U76	1U77	1U50	1U5S	-US7	l l b
y oP%bOenum	56 1	2U42	2U47	2UJ5	2UJS	-UJ-	l l b
y oP%bOenum	50 1	2US-	1U5-	1U07	1U51	6UJ1	l l b
y oP%bOenum	57 1	1U5S	2USJ	1U5-	1U56	4US4	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	-7U6-	4-U10	41UJ-	41U11	JUJ5	l l b
8EowI Eoruw	-1 2	1661U5J	17S4U76	17-5U5-	1067U51	JUJ-	l l b
8o&swwAum	-5 2	J50JUJ2	60SJU05	6467U2S	6-7-U1S	JU74	l l b
CEoOAum	1S- 1				1S4		G
CEoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				50		G
pe&enAum	72 1	1UJ-	2U02	1UJ0	1U70	-5UJS	l l b
pe&enAum	00 2	-1U02	47US6	42U64	4SU71	2SUJ5	l l b
pe&enAum	07 2	0UJ4	5UJ5	7U64	7UJ2	1SU75	l l b
pAqon	27 1	171U7S	151U5-	101U4S	171U01	JU6J	l l b
pAger	1S0 1	SUJ2	SUJ-	SU20	SUJ1	5UJ4	l l b
pAger	1S5 1	SUJ2	SUJ-	SUJS	SUJ1	4U67	l l b
poOAum	2- 2	140U5S	165U42	1J0US6	1J7U1-	6U7-	l l b
p&ona&Aum	76 1	114UJ2	11JUS7	112UJJ	114USJ	1U10	l l b
p&ona&Aum	77 1	12SU40	12-U1S	110U5S	12SU45	2U16	l l b
pulPur	-4 1	12S6U40	7SJU67	16-1U04	1214U6-		l l b
i erbAum	1J5 1				1S5		G
i erbAum	1J5 2				1SJ		G
i EsPAum	2S- 1	SUJ6	SUJ2	SUJS	SUJ-	6U11	l l b
i EsPAum	2SJ 1	SUJ-	SUJ1	SUJ-	SUJ2	2U71	l l b
i An	117 1	1UJ7	1U6J	1U66	1U6-	2U7J	l l b
i A&snAum	40 1	117U22	124U45	11-U76	117U76	4UJS	l l b
RrsnAum	2-7 1	2UJ-	2UJ7	2UJS	2UJ4	1U06	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 1-	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67t	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109279J6	t s&sFAe:Nsme:9	S56c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJv onqU	v onqCpt	RnA&w
VsnsOAum	J1 2	64U72	01U51	67UJ0	67U4-	JU15	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				11-		G
Y&&Aum	75 2				1S5		G
ZAnq	66 2	2JSUJS	207US2	26JUJ-	264U67	JU21	l l b
ZAqonAum	5S 1	- US7	- U11	- USS	- US6	1U5J	l l b
ZAqonAum	51 1	- US2	- USJ	- USS	- US2	SU0S	l l b

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpPe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Pent:SsmpPe:ID:J	H 9 O. 60L	DiPation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iPe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
APminium	23X2	R6 U4	- 616U1R	422RU33	46O- U33	26U43	ppb
Antimony	121X1	OU13	OU1	OU1	OU1	3U16	ppb
Arwenic	3 X2	U24	- U21	4UO3	4U10	24U0	ppb
Bsrium	1- X1	RU4O	6OU06	6 U2R	61U0	4UR6	ppb
Bsrium	1- 3X1	RU20	6 UOO	64U 2	62UR6	UOO	ppb
BeryPium	RX1	OU	OU3	OU4O	OU3	3U24	ppb
Biwmuth	2ORX1				1OR		%
Biwmuth	2ORX2				1O-		%
Bromine	01X1						cpw
v sdmium	1O0X1	OUOO	OU46	OUOR	OU21	1OOUR2	ppb
v sdmium	1O6X1	X4U -	X2U30	X4U21	X UO4		ppb
v sdmium	111X1	OU10	OU1	OU13	OU13	3U6	ppb
v sPium	4- X1	226UO3	342U44	33 U6R	01U63	U 1	ppb
v sPium	44X1	0- U4-	R62U22	6124U12	00RUR2	4U31	ppb
v srbon	12X1						cpw
v srbon	12X2						cpw
v hPorine	- X1						cpw
v hPorine	- X2						cpw
v hromium	2X2	3U4	4U1	U 1	U32	26U3O	ppb
v obsP	RX2	4UO	2U6O	- U13	- U6	2 U3-	ppb
v opper	6- X2	11U 1	6URO	0U2-	0UO0	26U33	ppb
Dywprowium	1 6X1						cpw
Dywprowium	1 6X2						cpw
Frbium	164X1						cpw
Frbium	164X2						cpw
GsdoPhium	16OX1						cpw
GsdoPhium	16OX2						cpw
9 oPhium	16 X1				1OR		%
9 oPhium	16 X2				1O2		%
Indium	11 X1				1O		%
Indium	11 X2				R0		%
Iron	4X2	12264UO1	3- 22UO1	03- 2UO2	R4- RUO0	26URR6	ppb
Iron	6X2	12064U14	3001UO	R166U1O	RR3OU 1	2 UR	ppb
Iron	3X2	12OO6U	32R- UR2	0611UR0	R- O4UOR	26U1-	ppb
Krypton	0- X1						cpw
Lesd	2O6X1	1OUO3	1OUO2	1OUR6	1OU62	4U43	ppb

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpPe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Pent:SsmpPe:ID:J	H9 O. 60L	DiPation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iPe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Lesd	2O3X1	RU3-	1OU2	1OU2R	1OU10	- URO	ppb
Lesd	2O0X1	RURO	1OU63	1OU32	1OU4	4UO	ppb
Lithium	6X1				RR		%
HsMhewium	24X2	- - 3- U23	2O1RU4-	242RU30	26O3UO	26U62	ppb
HsnMsnewe	X2	26OU 1	16OU4R	1R1U02	2O4U23	2 UO	ppb
HoPybdenum	R4X1	1U2	1U 2	1U43	1U41	1OU2R	ppb
HoPybdenum	R X1	OUJ O	OU4O	OUJ0	OUJ6	14U01	ppb
HoPybdenum	R6X1	OU4R	OU43	OU 4	OU O	3U31	ppb
HoPybdenum	R3X1	OU4O	OUJ4	OU 2	OU42	21U01	ppb
HoPybdenum	R0X1	OUJ3	OU4-	OU42	OU41	0U2O	ppb
Neodymium	1 OX1						cpw
Neodymium	1 OX2						cpw
NickePP	6OX2	11U3-	3U02	0U46	RU03	26U6O	ppb
8howphoruw	- 1X2	1 U3	214U -	- 20UJ6	- 2U00	4- U1O	ppb
8otswwium	- RX2	1012U4	1O10UJ0	126 U23	1- 6 UJ3	2RU36	ppb
Ehodium	1O- X1				1O6		%
Ehodium	1O- X2				1O1		%
Scsndium	4 X1				1O6		%
Scsndium	4 X2				R-		%
SePenium	02X1	OU0R	OU24	XOU0	OU0R	1 2U30	ppb
SePenium	33X2	0U36	0U66	3U 0	0UJ4	3U0	ppb
SePenium	30X2	- U04	1U 1	2U13	2U 1	43U04	ppb
SiPcon	20X1	- 2URO	- 6U03	- 6U66	- U2-	U64	ppb
SiPger	1O3X1	OU06	OU0	OU0	OU06	0U43	ppb
SiPger	1ORX1	OU03	OU00	OU00	OU00	0U31	ppb
Sodium	2- X2	2U01	X U33	1 U23	2OU33	142U0R	ppb
Strontium	06X1	21U01	2- U03	24U11	2- U26	U4-	ppb
Strontium	00X1	21URO	2- U32	24U33	2- U4R	URR	ppb
SuPur	- 4X1	X246OU0	X1R13UJ O	X1RORU0-	X2OR U46		ppb
Terbium	1 RX1				1O0		%
Terbium	1 RX2				1O-		%
ThsPrum	2O- X1	OU12	OU12	OU12	OU12	1UJ0	ppb
ThsPrum	2O X1	OU0R	OU1O	OU11	OU1O	RU6	ppb
Tin	110X1	OU26	OU20	OU2O	OU2	10U10	ppb
Titsnium	43X1	22U26	2- U21	24U12	2- U2O	4U0O	ppb
Crsnium	2- 0X1	OU42	OU46	OU46	OU4	U06	ppb

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
v Rent:SsmpRe:ID:J	H 9 O 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	v onEep1	v onEep2	v onEep-	AgMJv oncU	v oncESD	Cnitw
Vsnsdium	1X2	10U32	11U3	1- U6R	14U66	2 UD	ppb
Ytterbium	132X1						cpw
Ytterbium	132X2						cpw
Ytterbium	136X1						cpw
Ytterbium	136X2						cpw
Yttrium	0RX1				1O3		%
Yttrium	0RX2				RR		%
Zinc	66X2	34U64	44U3	1U10	6U06	23U63	ppb
Zirconium	ROX1	OU 0	OU6-	OU63	OU6-	3U06	ppb
Zirconium	R1X1	OU R	OU61	OU61	OU61	1U03	ppb

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57cC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJv onqU	v onqCpt	RnA&w
cRmAAm	20 2	2- S- 0U46	2- 11SU15	2- - J1U4J	2- 166U0	SU01	l l b
cn&mon%	121 1	17U4J	17U62	17U2S	17U42	1U14	l l b
crwenAq	0J 2	2JUJ-	2JU42	2JU6-	2JUJ-	SU42	l l b
BsrAm	1- J 1	016US6	0S5U6	010UJ1	014U1	SU61	l l b
BsrAm	1- 0 1	001U72	060U40	065U75	065U0-	SU27	l l b
Ber%RAm	5 1	12UJ6	12US5	11U70	12U10	2U75	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1SJ		G
BromAne	71 1						ql w
v sOmAm	1S7 1	5U21	5U2S	5U67	5U0	2U52	l l b
v sOmAm	1S6 1	7UJ4	7U7	0U42	7U11	0U44	l l b
v sOmAm	111 1	11US4	1SU02	11U42	11US6	-U17	l l b
v sRqAm	4- 1	27774U72	2752- U74	27727UJ7	27705US7	SU10	l l b
v sRqAm	44 1	250J6U4	2576- U47	25J4JU14	25021U66	SUJ4	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	- J 1						ql w
v ERrAne	- J 2						ql w
v EromAm	J2 2	01U4-	65U5	01U05	0SU70	1U7-	l l b
v obsR&	J5 2	122U4-	122U64	12- UJ-	122U70	SU47	l l b
v ol l er	6- 2	5- U56	54U0	5JU2S	54UJ1	SU60	l l b
t %wl rowAm	1J6 1						ql w
t %wl rowAm	1J6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
hoRmAm	16J 1				1S7		G
hoRmAm	16J 2				1S6		G
DrOAm	11J 1				1SJ		G
DrOAm	11J 2				55		G
Don	J4 2	4722- U77	40J24U54	4052- UJ4	4075SU05	SU0-	l l b
Don	J6 2	40J- 6U0-	401- JU6	47S70U40	40J76UJ2	1USS	l l b
Don	J0 2	47727U2-	47S61U6J	45S0SUS2	476J- US	1US7	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	J0U65	J7U61	J7U60	J7U2	SU54	l l b

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Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM:v onqU	v onqCpt	Rn&w
LesO	2S0 1	JJU0S	JJU45	J6U10	JJU05	SU6-	I I b
LesO	2S7 1	J0U54	J0U45	J0U66	J0U65	SU4S	I I b
LA&EAum	6 1				55		G
y sMnewAum	24 2	1270SU51	120J7U05	12540UJ0	127J5US-	SU04	I I b
y snMsnewe	JJ 2	1SJ0US0	1S45U45	1S01UJJ	1SJ5UJ0	1US6	I I b
y oP%bOenum	54 1	0U26	0US7	0U45	0U27	2U77	I I b
y oP%bOenum	5J 1	1U51	1U04	1U7-	1U7-	4U60	I I b
y oP%bOenum	56 1	2U46	2UJ6	2U6J	2UJJ	- U02	I I b
y oP%bOenum	50 1	2US4	1U70	1U57	1U56	4U62	I I b
y oP%bOenum	57 1	2US0	1U77	2USS	1U57	4U77	I I b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1J7U76	1J4UJ4	1J7U46	1J0U22	1UJ5	I I b
8 EowI Eoruw	- 1 2	1671U0-	175SUJS	17SSU42	105SU72	JU74	I I b
8 o&swwAum	- 5 2	661SU47	6452U0-	67S2U10	66- JU12	2UJJ	I I b
CEoOAum	1S- 1				1S-		G
CEoOAum	1S- 2				1SJ		G
pqsnOAum	4J 1				1SJ		G
pqsnOAum	4J 2				57		G
pe&enAum	72 1	21U4-	15UJJ	21U41	2SU7S	JU17	I I b
pe&enAum	00 2	6SU61	6- U77	J7U55	61U16	4US7	I I b
pe&enAum	07 2	24U01	24U07	27U66	26USJ	7U0S	I I b
pAqon	27 1	174UJ4	171U12	17JU24	17- U6-	1U2S	I I b
pAger	1S0 1	7U6S	7UJ5	7UJ-	7U44	1U66	I I b
pAger	1S5 1	7U6S	7UJJ	7UJ6	7UJ1	1UJS	I I b
poOAum	2- 2	22- UJ-	227U05	2- 2UJ7	227U2-	1U5J	I I b
p&on&Aum	76 1	12SU17	116UJJ	11JU6J	110U46	2US4	I I b
p&on&Aum	77 1	126U25	12- UJ1	12JU05	12JU1-	1U20	I I b
pulPur	- 4 1	0SSU70	065UJS	656US6	022US7		I I b
i erbAum	1J5 1				1S7		G
i erbAum	1J5 2				1S4		G
i EsPAum	2S- 1	7U5-	5US4	5U1-	5US-	1US7	I I b
i EsPAum	2SJ 1	5US1	5USJ	5US5	5USJ	SU44	I I b
i An	117 1	2U40	2U4J	2U46	2U46	SUJ-	I I b
i A&snAum	40 1	111U15	1SJU54	1S4U42	1S0U17	- UJ1	I I b
RrsnAum	2- 7 1	2UJ1	2U24	2U25	2U27	1U65	I I b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 14	Dw&umne&Nsme:9	8 7
v Ren&psml Re:D :9	y h SF67p	t Ra&on:Fsq&or:9	1
t s&e:T:i Ame:c qduAeO:9	2S2- S0 12:109-49J2	t s&sFAe:Nsme:9	S57c C. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgMJ:v onqU	v onqCpt	RnA&w
VsnsOAum	J1 2	105US0	10JUJJ	107U7-	100U72	1U11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	- 74U57	- 52U55	4S2USS	- 5- U2	2U10	l l b
ZAqonAum	5S 1	- U27	- U12	- U16	- U17	2U0J	l l b
ZAqonAum	51 1	- U1S	- U27	- U17	- U15	2U52	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&n&psml Re9D 9J9	y h SF: 0	t Ra&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J. S	t s&sFAe9Nsme9J	S55cC. FUD

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	Rn&w
cRmAAm	20 2	156: 6U66	17254U5S	154: 2U7:	151-4U7S	-U74	l l b
cn&mon%	121 1	SU70	SU7S	SU72	SU7-	4U41	l l b
crwenAq	0: 2	-2US:	25U-4	-SU47	-SU65	4U12	l l b
BsrAm	1-: 1	4-4U60	422US5	41SU17	422U-1	2U5S	l l b
BsrAm	1-0 1	4-1U:	426U1-	4S6U0:	421U40	-US5	l l b
Ber%RAm	5 1	1U52	1U5-	1U07	1U70	4U-	l l b
BAmu&E	2S5 1				1S7		G
BAmu&E	2S5 2				1S5		G
BromAe	71 1						ql w
v sOmAm	1S7 1	1U5S	1U55	1U-2	1U7S	1-U5:	l l b
v sOmAm	1S6 1	1US5	SU6:	1US2	SU52		l l b
v sOmAm	111 1	1U10	1US6	1US0	1U1S	:U2S	l l b
v sRqAm	4- 1	14S07U7-	141SSU57	1-52SU6S	14S--U40	SU0S	l l b
v sRqAm	44 1	1: S6: U6S	14716U07	147S-U52	1475: U4-	SU55	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAe	-: 1						ql w
v ERrAe	-: 2						ql w
v EromAm	: 2 2	-7U1S	-:U0	-6U1S	-6U2	-U76	l l b
v obsR&	: 5 2	20U21	24U55	26U42	26U21	4U27	l l b
v ol l er	6- 2	:6U24	:1U5S	: : U1:	:4U4-	4U1:	l l b
t %w l rowAm	1: 6 1						ql w
t %w l rowAm	1: 6 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRAm	16S 1						ql w
HsOoRAm	16S 2						ql w
hoRmAm	16: 1				1S0		G
hoRmAm	16: 2				1S7		G
DrOAm	11: 1				1S0		G
DrOAm	11: 2				1S2		G
Don	: 4 2	:4471US2	:1624U67	:4S: : U42	: - -70US4	2U75	l l b
Don	: 6 2	: : 247U50	:S6S: US2	: -670U04	: -17SU7	4U44	l l b
Don	: 0 2	: : 541U-2	:1620U7S	: : 1-7U1S	:42-:U04	4U2-	l l b
Kr%&on	7- 1						ql w
LesO	2S6 1	6SU-	61U-0	:5U07	6SU6-	1U47	l l b

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LB9Number9J	LB1264S0	3 I ers&br9J	aswl sP
Lsb9psmI Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Re&nA&psmI Re9D 9J9	y h SF: 0	t Re&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I0J-0J S	t s&sFAe9Nsme9J	S55cC. FUO

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
LesO	2S0 1	: 7U27	: 7U-6	: 0US2	: 0U77	1U-S	I I b
LesO	2S7 1	: 5U61	: 5U61	: 7U-0	: 5U15	1U21	I I b
LA&EAum	6 1				55		G
y sMnewAum	24 2	7661US4	0752U-2	7- 51U6	7- 1: US4	4U65	I I b
y snMsnewe	: : 2	2: 26USS	2- S- U27	24: 1U21	2426U7-	4U60	I I b
y oP%bOenum	54 1	1SU64	1SU57	1SU0:	1SU05	1U-5	I I b
y oP%bOenum	5: 1	2U22	2U27	2U-1	2U20	1U55	I I b
y oP%bOenum	56 1	- U10	- U25	- U2S	- U22	1U5S	I I b
y oP%bOenum	50 1	2U21	2U42	2U22	2U27	: U17	I I b
y oP%bOenum	57 1	2U2-	2U26	2U10	2U22	1U55	I I b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	6: U52	62USS	6: U26	64U-5	- U26	I I b
8 EowI Eoruw	- 1 2	141SU01	1- - 6U42	1: 01U14	14- 5U4-	7U-	I I b
8 o&swwAum	- 5 2	4105U-1	4S- 0U7:	4147US-	4121U0-	1U7S	I I b
CEoOAum	1S- 1				1S:		G
CEoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S0		G
pqsnOAum	4: 2				1SS		G
pe&nAum	72 1	- U61	- U4-	- U-6	- U-	2U-2	I I b
pe&nAum	00 2	- 0US5	- : U70	46U44	- 5U7S	14U-4	I I b
pe&nAum	07 2	11US7	5U2-	11U4-	1SU-7	11U10	I I b
pAqon	27 1	10SUS7	102U-5	166U-S	165U-5	1U71	I I b
pAger	1S0 1	SU20	SU26	SU26	SU26	2U6S	I I b
pAger	1S5 1	SU27	SU-S	SU24	SU20	11U64	I I b
poOAum	2- 2	1162U67	1S61U-2	112: U21	1116U40	4U-7	I I b
p&onAum	76 1	116U-7	11- U55	112U54	114U44	1U-4	I I b
p&onAum	77 1	121U6-	115U-4	12SUS4	12SU4S	SU51	I I b
pu&ur	- 4 1	00U46	14- U-	- : 5U65	141U52		I I b
i erbAum	1: 5 1				1S5		G
i erbAum	1: 5 2				1S0		G
i EsPAum	2S- 1	SU47	SU46	SU44	SU46	- U6S	I I b
i EsPAum	2S: 1	SU47	SU46	SU4:	SU46	- U:	I I b
i A	117 1	2U-:	2U22	2U21	2U26	- U40	I I b
i A&snAum	40 1	02U-S	0- U00	01U52	02U0-	1U-S	I I b
RrsnAum	2- 7 1	- U12	- U1:	- US2	- U1S	2U16	I I b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 7
v Ae na&psml Re9D 9J9	y h SF: 0	t Ae a&on9Fsqa&br9J	1
t sa&e9T9 Ame9cqduAeC9J	2S2- S0 129l0J-0J. S	t sa&sFAe9Nsme9J	S55c C. FU0

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
VsnsOAum	: 1 2	70U04	7SU2:	74U S	74U16	4U46	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	75 1				111		G
Y&&Aum	75 2				11-		G
ZAnq	66 2	212U56	156U0S	2S2U52	2S-U75	-U05	l l b
ZAqonAum	5S 1	: U7	: U2:	: U27	: U S	1U2	l l b
ZAqonAum	51 1	: U2:	: US-	: U S	: U15	2U04	l l b

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	1y411.2h	16177.4-	1yy46.76	1y01y.y2	2.64	ppm
Aotiu Oo%	121 1	S.7y	S.70	S.hS	S.70	2.60	ppm
Aesboic	0y 2	22.y-	22.hS	2- .S2	22.72	1.12	ppm
BaeiNu	1- y 1	24y.11	247.02	262.67	2y2.10	- .67	ppm
BaeiNu	1- 0 1	2y1.- 2	24h.h1	266.y0	2yy.h-	- .61	ppm
Bbe%liNu	h 1	1.yS	1.y6	1.40	1.y1	- .Sy	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1S-		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.- -	2.71	1.h0	2.- 0	10.0y	ppm
Uadu iNu	1S6 1	1.- 7	- .24	1.60	2.1S		ppm
Uadu iNu	111 1	1.76	1.0y	2.S6	1.7h	7.2h	ppm
UalciNu	4- 1	1- 601.7y	1- yh2.74	14SS4.y4	1- 0y6.41	1.yh	ppm
UalciNu	44 1	144S7.6y	14111.h2	14024.47	1441y.S2	2.1-	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	26.y0	27.S6	26.hS	20.17	2.77	ppm
UOmalt	yh 2	12.46	1- .1-	12.27	12.62	- .y7	ppm
UOppbe	6- 2	- h.22	41.46	4S.2h	4S.- 2	2.07	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1S4		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	- 0h17.h2	4S620.S6	- 0- - 2.0y	- 7626.24	4.yy	ppm
IeOo	y6 2	- 76h- .2y	- h0Sh.40	- 0y20.y0	- 764- .4-	2.7-	ppm
IeOo	y0 2	- yyS2.- 0	- 0y2y.4y	- y4- - .22	- 61y- .67	- .2h	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	67.60	67.7y	6h.02	6h.S7	S.71	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	6y.- 7	64.46	60.14	6y.66	2.S0	ppm
Lbad	2S7 1	66.- -	66.07	67.01	60.20	1.77	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	6SSS.4-	64S2.72	6162.74	6177.0S	- .20	ppm
g aovaobsb	yy 2	62- .hy	64h.2h	622.y2	6- 1.h2	2.- 7	ppm
g Ol%mdboNu	h4 1	0.yh	0.66	7.12	0.0h	- .6h	ppm
g Ol%mdboNu	hy 1	2.S2	1.hS	2.14	2.S2	y.7-	ppm
g Ol%mdboNu	h6 1	2.6y	2.y2	2.72	2.60	y.6-	ppm
g Ol%mdboNu	h0 1	2.S7	2.Sh	2.S0	2.S7	S.- 6	ppm
g Ol%mdboNu	h7 1	2.S6	2.S1	2.S6	2.S4	1.yy	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	2h.76	- 1.0h	- S.- 0	- S.60	- .2y	ppm
PEOspEOeNs	- 1 2	- - 22.1S	- - - 2.02	- 2SS.6S	- 27y.14	2.2-	ppm
POtassiNu	- h 2	647y.14	6hh6.- S	6y70.- y	667h.6S	4.S4	ppm
n EOdiNu	1S- 1				1S7		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1S0		G
r caodiNu	4y 2				hy		G
r blboiNu	72 1	1.2S	1.4-	1.hS	1.y1	2- .76	ppm
r blboiNu	00 2	- 4.26	- 6.10	4S.41	- 6.h4	7.y2	ppm
r blboiNu	07 2	7.S0	0.76	0.y-	0.72	- .4-	ppm
r ilicOo	27 1	1y4.1h	1yy.y0	164.44	1y7.S0	- .y2	ppm
r ilRbe	1S0 1	S.41	S.4h	S.y1	S.40	11.y4	ppm
r ilRbe	1Sh 1	S.yS	S.y-	S.4h	S.y1	4.h6	ppm
r OdiNu	2- 2	2S2.1-	221.0-	2S- .02	2Sh.2S	y.2S	ppm
r teOotiNu	76 1	h6.26	h- .4h	1S- .SS	h0.y7	y.S1	ppm
r teOotiNu	77 1	1S2.16	hh.42	1S7.SS	1S- .1h	4.2y	ppm
r NfNe	- 4 1	14y4.y-	1420.27	1114.y1	1- - 2.11		ppm
TbemiNu	1yh 1				1Sh		G
TbemiNu	1yh 2				1S-		G
TEalliNu	2S- 1	S.- 1	S.- 4	S.- 6	S.- 4	6.07	ppm
TEalliNu	2Sy 1	S.- -	S.- 2	S.- -	S.- -	2.20	ppm
Tio	117 1	2.y7	2.4y	2.66	2.y6	4.21	ppm
TitaoiNu	40 1	1S0.66	112.41	11y.11	111.0-	- .- 7	ppm
FeaoiNu	2- 7 1	2.y7	2.6S	2.0y	2.64	- .yS	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S6	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCy7	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109419S7	DataCilb:8 au b:9	1SSAn 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	y0.yh	yh.0h	y6.76	y7.S7	2.6-	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				1S2		G
Zioc	66 2	26h.S2	2hS.71	20y.72	207.yy	4.SS	ppm
ZieoOoiNu	hS 1	- .4h	- .46	- .07	- .y7	4.h-	ppm
ZieoOoiNu	h1 1	- .y2	- .y7	- .66	- .yh	2.S-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	17y0y.66	17446.10	17- 40.- y	174y6.- h	S.62	ppm
Aotiu Oo%	121 1	S.6h	S.02	S.72	S.04	7.60	ppm
Aesboic	0y 2	2y.y1	20.4S	26.h1	26.61	- .67	ppm
BaeiNu	1- y 1	2hh.h2	- S1.- 2	- S0.60	- S2.h0	1.- 6	ppm
BaeiNu	1- 0 1	2h7.2h	- S0.24	- 1- .0-	- S6.42	2.y-	ppm
Bbe%liNu	h 1	1.76	1.hS	1.hS	1.7h	1.1h	ppm
Bisu NtE	2Sh 1				112		G
Bisu NtE	2Sh 2				1S0		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	2.26	2.y0	2.2S	2.- 4	7.y6	ppm
Uadu iNu	1S6 1	1.27	1.41	- .S4	1.h1		ppm
Uadu iNu	111 1	2.44	2.- y	2.4y	2.41	2.1h	ppm
UalciNu	4- 1	10y46.67	17- 22.2S	172S1.12	17S2- .- -	2.- 1	ppm
UalciNu	44 1	1717S.70	17772.- 0	17610.0S	17y6S.- 2	1.h1	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	- - .S-	- 2.1S	- 1.h6	- 2.- 6	1.0h	ppm
UOmalt	yh 2	16.6h	16.hh	16.1h	16.62	2.42	ppm
UOppbe	6- 2	4S.04	4S.0S	- h.h1	4S.4y	1.1y	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5 emiNu	164 1						cps
5 emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				hh		G
IeOo	y4 2	4- 4y6.hh	4214- .26	4171S.12	4240S.12	2.Sy	ppm
IeOo	y6 2	422S0.- h	42114.4y	4S646.Sh	416yy.h7	2.1S	ppm
IeOo	y0 2	42y41.70	- h66y.7S	- 7- - y.S2	4S17S.hS	y.- y	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	72.y7	72.21	72.40	72.42	S.2-	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	7S.04	06.- h	07.- -	07.4h	2.00	ppm
Lbad	2S7 1	72.Sy	0h.7y	7S.22	7S.01	1.46	ppm
LitEiNu	6 1				1S1		G
g avobsiNu	24 2	04y1.0h	04Sh.1S	02y- .- 2	0- 01.4S	1.42	ppm
g aovaobsb	yy 2	h0S.14	h44.S7	h2- .70	h46.S-	2.4y	ppm
g Ol%mdboNu	h4 1	6.20	0.Sy	0.11	6.71	6.76	ppm
g Ol%mdboNu	hy 1	1.07	1.0-	1.77	1.7S	4.1h	ppm
g Ol%mdboNu	h6 1	2.- 7	2.4S	2.40	2.42	1.h1	ppm
g Ol%mdboNu	h0 1	1.61	2.S4	1.77	1.74	11.0y	ppm
g Ol%mdboNu	h7 1	1.04	1.7h	1.76	1.7-	4.1h	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	- 0.72	- 0.SS	- 6.20	- 0.S-	2.1S	ppm
PEOspEOeNs	- 1 2	217- .S4	2- 10.46	2221.y-	224S.60	- .Sh	ppm
POtassiNu	- h 2	y4h1.16	y44- .4-	y- 70.24	y44S.61	S.h6	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1Sy		G
r caodiNu	4y 1				1S7		G
r caodiNu	4y 2				h7		G
r blboiNu	72 1	1.y0	1.4S	1.6-	1.y-	0.7h	ppm
r blboiNu	00 2	4- .2-	44.02	4h.y-	4y.7-	0.17	ppm
r blboiNu	07 2	h.- 6	1S.7y	7.71	h.60	1S.h2	ppm
r ilicOo	27 1	1hy.46	2Sy.S0	2S- .70	2S1.40	2.6S	ppm
r ilRbe	1S0 1	S.0y	S.71	S.06	S.00	- .76	ppm
r ilRbe	1Sh 1	S.04	S.02	S.7-	S.06	0.27	ppm
r OdiNu	2- 2	447.22	447.7y	4- 0.- S	444.0h	1.46	ppm
r teOotiNu	76 1	1Sy.h0	1S7.- 2	111.S7	1S7.46	2.- 6	ppm
r teOotiNu	77 1	111.- S	11- .- 0	114.hh	11- .22	1.64	ppm
r NfNe	- 4 1	21S0.12	10h1.hS	16h6.y6	176y.1h		ppm
TbemiNu	1yh 1				11-		G
TbemiNu	1yh 2				1Sy		G
TEalliNu	2S- 1	S.- h	S.4S	S.- 0	S.- h	- .24	ppm
TEalliNu	2Sy 1	S.- 7	S.4S	S.4-	S.41	y.6S	ppm
Tio	117 1	1.h6	2.Sy	2.Sy	2.S2	2.4y	ppm
TitaoiNu	40 1	71.1y	74.- 6	74.21	7- .24	2.17	ppm
FeaoiNu	2- 7 1	2.4y	2.44	2.- h	2.4-	1.2-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S0	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyh	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:109449S7	DataCilb:8 au b:9	1S1An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	6y.S7	64.4-	6- .11	64.2S	1.y6	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				11-		G
YtteiNu	7h 2				11S		G
Zioc	66 2	2y4.- 7	24h.7h	2yS.- 0	2y1.yy	S.h7	ppm
ZieoCoiNu	hS 1	- .S-	- .S4	- .1S	- .S6	1.10	ppm
ZieoCoiNu	h1 1	2.76	2.70	- .1S	2.h4	4.y7	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1171- F2J	11762Fh6	12ShhF6-	11h2JF27	1F27	l l b
cn&mon%	121 1	1F1J	1FSh	1F22	1F1J	JF47	l l b
crwenAq	0J 2	21Fh0	21FS0	22F07	21Fh4	- FhS	l l b
BsrAum	1- J 1	27- F06	2J4F7S	- SJFS1	271F1h	7Fh6	l l b
BsrAum	1- 0 1	27- F41	261F70	- S4FhJ	27- F41	0F6S	l l b
Ber%BAum	h 1	- F10	2Fh-	- F- J	- F1J	6F67	l l b
BAumu&E	2Sh 1				111		G
BAumu&E	2Sh 2				1S0		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F7h	2F12	2F40	2F16	1- F64	l l b
RsOmAum	1S6 1	2F- S	1F1h	1F6h	1F0-		l l b
RsOmAum	111 1	1F64	1F- h	1F6J	1FJ6	hF4-	l l b
RsRqAum	4- 1	1S747FSJ	hh4hFS0	11JJSF6S	1S072FJ0	0F4J	l l b
RsRqAum	44 1	111- hF17	1S44hF7J	110S7F- -	11ShhF12	JF67	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	10F26	10FS-	10FS4	10F11	SF0J	l l b
RobsR&	Jh 2	1SF4S	1SF- -	1SF64	1SF46	1FJ7	l l b
Rol l er	6- 2	- 6F4J	- 6F60	- 6F72	- 6F6J	SFJ1	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				111		G
y oPmAum	16J 2				1S0		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				hh		G
Don	J4 2	2hS07F04	2h074Fh4	- S- 40FS1	2h0- 6FhS	2F14	l l b
Don	J6 2	27647F24	2h201F11	2h76SF64	2h26SFSS	2FS0	l l b
Don	J0 2	26JJ2FJ2	20SS6F22	2001hF0h	20Sh2F74	2F10	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	1S1F70	h0F7h	11SF2J	1S- F- 4	6F1S	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 6S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	h0FS2	h4F1h	1SJF2J	h7F72	JF72	l l b
LesO	2S7 1	1SSFh2	h6FS0	1S0F7h	1S1F6-	JF7J	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	- 0S0F1J	- 6h7F6J	- 746F27	- 0JSF0S	2F21	l l b
Msngsnewe	JJ 2	7J7F2h	76hF10	777F44	701Fh6	1F0J	l l b
MoP%bOenum	h4 1	1JF17	14FJ1	10F1J	1JF61	7F7S	l l b
MoP%bOenum	hJ 1	2F6h	2F4S	2F00	2F62	0F4J	l l b
MoP%bOenum	h6 1	- F72	- F0J	4F16	- Fh1	JF62	l l b
MoP%bOenum	h0 1	2F24	2F2S	2F4J	2F- S	JFh0	l l b
MoP%bOenum	h7 1	2FJ0	2F4J	2F67	2FJ0	4F44	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	10F0-	10F06	17F- 6	10FhJ	1Fh7	l l b
8EowI Eoruw	- 1 2	1762F44	100hF72	2S21F70	1777FS4	6FJ2	l l b
8o&swwAum	- h 2	J042F- 6	J076Fhh	J766FSS	J0h7F4J	1FS7	l l b
5EoOAum	1S- 1				1S4		G
5EoOAum	1S- 2				1S4		G
pqsnOAum	4J 1				1S0		G
pqsnOAum	4J 2				h6		G
peRenAum	72 1	1F76	1F- h	1F0J	1F60	14F66	l l b
peRenAum	00 2	4hFJS	64FSh	JSF- 2	J4F6-	1JFS1	l l b
peRenAum	07 2	11F07	1SF6J	11FhS	11F44	6FS-	l l b
pARqon	27 1	127F06	11hF61	1- JF44	120Fh-	6F21	l l b
pARer	1S0 1	1F00	1F61	1FhS	1F06	7F- -	l l b
pARer	1Sh 1	1F07	1F04	1F77	1F7S	4FSS	l l b
poOAum	2- 2	hJFS-	h2F- h	hhF21	hJFJ4	- F6S	l l b
p&on&Aum	76 1	00F4-	0- FS2	76F14	07F76	7F40	l l b
p&on&Aum	77 1	00FS4	02F07	72Fh4	00FJh	6FJ7	l l b
pufFur	- 4 1	17S- F17	24JhF6h	1- 4JF04	176hFJ4		l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsFAum	2S- 1	SF- h	SF- 4	SF41	SF- 7	hF1-	l l b
i EsFAum	2SJ 1	SF- 7	SF- 4	SF4S	SF- 0	0Fh-	l l b
i An	117 1	4FS6	- F4h	4F- 2	- FhJ	1SF00	l l b
i A&snAum	40 1	20JF0S	2J4F77	277FJh	20- FS6	6F2-	l l b
UrsnAum	2- 7 1	4F- 4	- Fhh	4F47	4F20	JFhS	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S7	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6S	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109409SJ	t s&s. Ae:Nsme:9	1S2c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	4- F02	4- Fnh	4JF21	44F- 1	1F0h	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S0		G
ZAnq	66 2	- S1FJ6	- SJF67	- SJF6-	- S4F2h	SF07	l l b
ZAqonAum	hS 1	0F71	0FS0	7F1-	0F60	0FSh	l l b
ZAqonAum	h1 1	0F4h	0F11	7F16	0FJ7	0FS1	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9u mb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	1: 7S2U2S	1: a21U4-	1: a07U6	1: 6- 4U$S	SU06	DDe
q5Tb n5%	121 1	4U6S	4U22	4U42	4U42	4U0	DDe
qpl r 5cl	0a 2	7SU$1	7SU17	72U1:	7SU0:	1UaS	DDe
Bwpcmb	1- a 1	6S6U0	a0SU27	a64U74	a7SU4:	- U7:	DDe
Bwpcmb	1- 0 1	611U$7	a71U44	a07U20	a: SU26	- U$0	DDe
Br p%8cmb	: 1	4U4	4U11	4U$a	4U10	- U07	DDe
Bdb mTE	2S: 1				11S		G
Bdb mTE	2S: 2				1Sa		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	2U-	- U21	2U07	2U0	0U2	DDe
v wob cmb	1S6 1	SU1a	SU2:	SU2S	SU$2		DDe
v wob cmb	111 1	2Ua2	2U42	2Ua4	2U4:	2UaS	DDe
v w8dcmb	4- 1	2- S07Ua6	22166U01	21: 01U:	224SaUaa	2U64	DDe
v w8dcmb	44 1	241S: Ua4	2- SSaU4	220- 2U2a	2- 272U7	- U1-	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- a 1						dDl
v E8hpd5r	- a 2						dDl
v Epmb cmb	a2 2	- : U-	- 7Ua:	- 7U07	- 7U S	1U$S	DDe
v new8T	a: 2	1aU77	1aU47	16U12	1aU72	2U$6	DDe
v nDDr p	6- 2	76U70	76U7	76U7-	76U6:	SU1	DDe
&%Dpnl cmb	1a6 1						dDl
&%Dpnl cmb	1a6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16a 1				1S:		G
h n8b cmb	16a 2				1S7		G
t5ocmb	11a 1				1S6		G
t5ocmb	11a 2				: :		G
tpn5	a4 2	4: : 7- U6-	477S6U01	4: : 71U02	4: a: SU6:	1U0	DDe
tpn5	a6 2	4: - 12U06	4: 4- SU6:	47: a1U76	4: 2- 1U00	SUa1	DDe
tpn5	a0 2	aS677U7	aS174U$-	aSa2- U0:	aS46aU4S	SUa1	DDe
Kp%DTn5	7- 1						dDl
Lr wo	2S6 1	- 40U1:	- 20U41	- 47U70	- 41U16	- UaS	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9&9J9	y h SF61	&c8mTcn59FwdTnp9J	1
&wTr 9 9Acb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFc8 9uwb r 9J	1S- qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5cT
Lr wo	2S0 1	2: 7U1:	276U4-	2: 6U71	2: - U71	2U1:	DDe
Lr wo	2S7 1	- - 1U7:	- 21U0S	- 26U6-	- 26U04	1Ua6	DDe
LcTEcmb	6 1				: 7		G
y wW5r l cmb	24 2	061- U6:	04- : US1	0aa- US0	0a- aU26	1U17	DDe
y w5Mw5r l r	aa 2	1a66U11	1a- : U2	1a6- U6:	1aa6Ua7	SU-	DDe
y n8%eor 5mb	: 4 1	21Ua	2SU7:	2SUa6	21U1-	- U4-	DDe
y n8%eor 5mb	: a 1	7US2	0U0a	0U0-	0U7-	2US4	DDe
y n8%eor 5mb	: 6 1	: Ua4	: U2S	: U7	: U0	1U74	DDe
y n8%eor 5mb	: 0 1	7US:	0U64	7U21	0U7	- U0a	DDe
y n8%eor 5mb	: 7 1	7U11	0U02	0U7a	0US	2UaS	DDe
u r no%b cmb	1aS 1						dDl
u r no%b cmb	1aS 2						dDl
u cdkr 8	6S 2	- 4U7S	- - U12	- 4US:	- 4USS	2U40	DDe
NEnl DEnpml	- 1 2	1777Ua6	100- USO	17: 2U61	17a1U41	- U60	DDe
NnTwl cmb	- : 2	64: : US6	6- 1- U7	646- U47	642aUa1	1Ua-	DDe
CEnocmb	1S- 1				1Sa		G
CEnocmb	1S- 2				1Sa		G
l dw5ocmb	4a 1				1S6		G
l dw5ocmb	4a 2				: 0		G
l r 8 5cmb	72 1	1U4	2U11	1Ua	1U7S	22U6:	DDe
l r 8 5cmb	00 2	64U42	0aU46	04U6S	01U4:	7Ua:	DDe
l r 8 5cmb	07 2	12U41	14USS	1- U4:	1- US	6US7	DDe
l c8dn5	27 1	122U6	116U0	110U10	117U6-	2U0a	DDe
l c8gr p	1S0 1	2U67	2U62	2Ua4	2U61	2U07	DDe
l c8gr p	1S: 1	2U06	2U6a	2U6-	2U67	2Ua4	DDe
l nocmb	2- 2	- 2: Ua7	- 1: U11	- 26U07	- 2aU16	1U60	DDe
l Tpn5Tcmb	76 1	10aU76	167U24	102U1	102U14	2U22	DDe
l Tpn5Tcmb	77 1	177U00	100U1a	104U27	17SUS0	4U26	DDe
l m8mp	- 4 1	12aaUa-	10- : Ua0	1604U61	1aa6Ua0		DDe
Ar pecmb	1a: 1				11S		G
Ar pecmb	1a: 2				1S6		G
AEw8cmb	2S- 1	SUa6	SUa4	SUa:	SUa6	- U67	DDe
AEw8cmb	2Sa 1	SU6S	SUa4	SU6S	SUa7	aUS7	DDe
Ac5	117 1	11U60	1SU72	1SU7S	11U1S	4Ua1	DDe
AcTw5cmb	40 1	- 14U0	2: 7U10	270Ua1	- SSUS2	4Ua1	DDe
Rpw5cmb	2- 7 1	4U76	4U62	4U76	4U07	2U2	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9umb er p9J	LB1264S0	3 Dr pwTnp9J	swl Pw8
Lwe9l wb D8 9l&9J9	3 - 447 S:	t5l Tpmb 5r T9u wb r 9J	N7
v 8r 5T9 wb D8 9l&9J9	y h SF61	&8mTm59FwdTnp9J	1
&wTr 9 9Adb r 9qdOmpr o9J	2S2- S0 129l0JaSJS4	&wTwFd8 9u wb r 9J	1S- q C. Fub

NwpwbrTrp	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dT
Vw5wocmb	a1 2	72U0	71US:	7SU4-	71U S	1U21	DDe
YTrpecmb	102 1						dDl
YTrpecmb	102 2						dDl
YTrpecmb	106 1						dDl
YTrpecmb	106 2						dDl
YTpcmb	7: 1				116		G
YTpcmb	7: 2				114		G
Zc5d	66 2	46aU06	402U66	401U0-	40SUSa	SU7S	DDe
Zcpdn5cmb	: S 1	7U6:	7USS	7U20	7U2	4U10	DDe
Zcpdn5cmb	: 1 1	7Ua0	7US0	7U47	7U0	- U10	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	22- - 1U60	2S- 7SU0	2S7JJUSJ	2117aUS-	4U7S	DDe
q5Tb n5%	121 1	1U1S	1U1J	1USO	1U11	- U7-	DDe
qpl r 5cd	0J 2	42US-	- 7U6S	42US-	4SU7a	4U7J	DDe
Bwpcmb	1- J 1	42SU7J	447U61	4- 6Ua6	4- JU40	- U2S	DDe
Bwpcmb	1- 0 1	417UJ1	4- 6U14	447U2S	4- 4U22	- U46	DDe
Br p%8cmb	a 1	2U01	2Ua0	2Ua6	2U77	4Ua4	DDe
Bdb mTE	2Sa 1				11S		G
Bdb mTE	2Sa 2				1S-		G
Bpmb d5r	71 1						dDl
v wob cmb	1S7 1	1U44	1UJ4	1U42	1U40	4UJ6	DDe
v wob cmb	1S6 1	1UaJ	1U6S	2U24	SU76		DDe
v wob cmb	111 1	1USS6	1UJ-	1U2-	1U21	11U2S	DDe
v w8dcmb	4- 1	0- 14- U1a	0J4- 2USa	04JJaU7a	04- 07UJa	1UJJ	DDe
v w8dcmb	44 1	0S00JU42	04- a4US7	04S06UaS	0- S72U14	2U04	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- J 1						dDl
v E8hpd5r	- J 2						dDl
v Epmb cmb	J2 2	- 6Ua-	- 4USS6	- - U61	- 4U70	JU10	DDe
v new8T	Ja 2	24UJ7	22U06	2- U2J	2- U46	- UJ4	DDe
v nDDr p	6- 2	J6U41	J2U4S	J- U44	J4US7	- U74	DDe
&%Dpnl cmb	1J6 1						dDl
&%Dpnl cmb	1J6 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	16J 1				114		G
h n8b cmb	16J 2				1S6		G
t5ocmb	11J 1				11S		G
t5ocmb	11J 2				a0		G
tpn5	J4 2	6124JU64	J62a1UJ2	J0- 6JU62	J7- SSUa-	4U40	DDe
tpn5	J6 2	614SaU22	J6Jaau42	J07J1U27	J761aUa0	4U26	DDe
tpn5	J0 2	61aJ7UJ1	J01- 2U14	J76- aUS0	Ja24- U10	4U10	DDe
Kp%bTn5	7- 1						dDl
Lr wo	2S6 1	0- USJ	00US4	0aU20	06U4J	4U12	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	3 Dr pwTnp:9	swl Pw8
Lwe:l wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r T:u wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&c8mTm5:FwdTnp:9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFc8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5cT
Lr wo	2S0 1	6aUaa	0- U71	04UJ1	02U00	- UJ4	DDe
Lr wo	2S7 1	01UaS	06U1S	00UJ7	0JU12	- U71	DDe
LcTEcmb	6 1				1S2		G
y wW5r l cmb	24 2	- 6aa7UaJ	- - 720U6J	- J267U6S	- J- 6JUS0	4U4a	DDe
y w5Mw5r l r	JJ 2	21J0U4J	1aa- U20	2S- 6U64	2S62U4J	4U1-	DDe
y n8%eor 5mb	a4 1	0Ua2	7U4J	7UJ1	7U2a	- U7a	DDe
y n8%eor 5mb	aJ 1	- UJa	- UJ1	- U60	- UJ-	- Ua7	DDe
y n8%eor 5mb	a6 1	4US0	4US4	- Ua7	4US-	1U22	DDe
y n8%eor 5mb	a0 1	- U4J	- UJ2	- U64	- UJ4	2U67	DDe
y n8%eor 5mb	a7 1	- UJa	- U0S	- U67	- UJa	4U7J	DDe
u r no%b cmb	1JS 1						dDl
u r no%b cmb	1JS 2						dDl
u cdkr 8	6S 2	JJUJ-	JSU0-	J2U2-	J2U06	4U44	DDe
NEnl DEnpm	- 1 2	2J7aUJa	2- J4USa	210aU22	2- 04U2-	7U60	DDe
NnTwl cmb	- a 2	6aSaUSS	6- 7aUa6	6J4JU71	6614Ua2	4US-	DDe
CEnocmb	1S- 1				1S6		G
CEnocmb	1S- 2				1S1		G
l dw5ocmb	4J 1				1S7		G
l dw5ocmb	4J 2				a6		G
l r 8 5cmb	72 1	1UJa	1U76	2U12	1U76	14US0	DDe
l r 8 5cmb	00 2	J4UJ4	J7U17	02UJ7	61U6-	1JU42	DDe
l r 8 5cmb	07 2	1SU66	1SUSS	1- US0	11U24	14UJ7	DDe
l c8dn5	27 1	176UJ-	1a4U72	1a4U02	1a2US2	2U47	DDe
l c8gr p	1S0 1	SU46	SUJ-	SUJJ	SUJ1	aUSa	DDe
l c8gr p	1Sa 1	SUJ1	SUJ0	SUJ2	SUJ4	6U42	DDe
l nocmb	2- 2	41- U2J	- 00U17	- a2U04	- a4UJa	4UJa	DDe
l Tpn5Tcmb	76 1	1J0U40	16JU22	162U7a	161U76	2U46	DDe
l Tpn5Tcmb	77 1	160UJ1	10- U07	16aU1S	10SUS6	1Ua6	DDe
l m8mp	- 4 1	6J1UJ0	1S2UJa	110U60	212US-		DDe
Ar pecmb	1Ja 1				11-		G
Ar pecmb	1Ja 2				1S4		G
AEw8cmb	2S- 1	SU47	SUJ2	SUJS	SUJS	- UaJ	DDe
AEw8cmb	2SJ 1	SU4a	SUJ2	SUJ1	SUJ1	2U07	DDe
Ac5	117 1	2U1S	2U21	2U22	2U10	- U12	DDe
AcTw5cmb	40 1	7aU2J	a2U42	a1U1S	aSUa2	1U0J	DDe
Rpw5cmb	2- 7 1	- UJ2	- U02	- U6-	- U6-	2U06	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p9	LB1264S0	3 Dr pwTnp9	swl Pw8
Lwe:I wb D8 :t&:9	3 - 447 1S	t5l Tpmb 5r Tu wb r :9	N7
v 8r 5Tl wb D8 :t&:9	y h SF62	&8mTm5:FwdTnp9	1
&wTr :i :Adb r :qdOmpr o:9	2S2- S0 12:109J29Ja	&wTwFd8 :u wb r :9	1S4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	J1 2	76UJ4	7SU7a	71UaS	7- U1 1	- U6-	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	7a 1				110		G
YTTpcmb	7a 2				11S		G
Zc5d	66 2	- 42U01	- 1SU71	- 16U7a	- 2- U40	JU24	DDe
Zqcdn5cmb	aS 1	2Ua7	2UaJ	2Uaa	2Ua0	SU60	DDe
Zqcdn5cmb	a1 1	- U16	- U-	2Ua1	- U1-	6U6-	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6-	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1666hF- J	1J002F66	1Jh- SF2S	16124FS0	2Fh0	l l b
cn&mon%	121 1	1F20	1F17	1F20	1F24	4F2J	l l b
crwenAq	0J 2	41Fh-	- hF61	4SF10	4SFJ0	2Fhh	l l b
BsrAum	1- J 1	27- F6S	2h- FhS	2h- Fh0	2hSF4h	2FSJ	l l b
BsrAum	1- 0 1	270F16	2h6F- J	2hJF74	2h- F12	1F06	l l b
Ber%BAum	h 1	1F06	1F0h	1F04	1F06	1FJ0	l l b
BAumu&E	2Sh 1				112		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F4h	1F- 6	1F4S	1F42	4F61	l l b
RsOmAum	1S6 1	SF42	1F7-	1FS7	SF7-		l l b
RsOmAum	111 1	1FS0	SFh4	1FS6	1FS2	0F2S	l l b
RsRqAum	4- 1	17J07FJ0	17604FJS	17h0SF6-	17041F24	1FSh	l l b
RsRqAum	44 1	1h- 17F71	1hJ- 1F17	1h6- SF7-	1h4h- F61	SF72	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REPrAne	- J 1						ql w
REPrAne	- J 2						ql w
REromAum	J2 2	4JFh-	42F4S	4- F11	4- F71	4F20	l l b
RobsR&	Jh 2	2SF61	1hF1-	1hF67	1hF71	- F00	l l b
Rol l er	6- 2	44FSh	41F- J	41F74	42F42	- F4J	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oPmAum	16J 1				111		G
y oPmAum	16J 2				1SJ		G
DrOAum	11J 1				1Sh		G
DrOAum	11J 2				h0		G
Don	J4 2	J2Sh4Fh7	4h0h1FJ1	4hh10F24	JS6S1F24	2FJ6	l l b
Don	J6 2	J1404FJ6	47027F16	JS14- FJ-	JS11JF42	2F04	l l b
Don	J0 2	J174SF12	4h402F- 1	JSJ- 7F67	JS610FS4	2F- 4	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	JSF6J	J1F4-	JSF4S	JSF72	1FS6	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 6-	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109JJ9JJ	t s&s. Ae:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	47F-7	47Fh4	40F0J	47F-6	1F22	l l b
LesO	2S7 1	JSF-6	J1FSh	4hF-S	JSF2J	1F07	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	726hF40	0724F2S	0772FJ1	0hh2FS6	-FS-	l l b
Msngsnewe	JJ 2	2S60F4J	1hJ4FJS	1h66F7S	1hh6F2J	-F1S	l l b
MoP%oOenum	h4 1	1-FS0	1-F6J	1-F-J	1-F-6	2F1h	l l b
MoP%oOenum	hJ 1	JF04	JF60	JFJ4	JF6J	1F74	l l b
MoP%oOenum	h6 1	6F1h	6F-6	6F21	6F2J	1F40	l l b
MoP%oOenum	h0 1	JF6S	JF0S	JF44	JFJ7	2F42	l l b
MoP%oOenum	h7 1	JFJS	JF04	JF4h	JFJ7	2F4h	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	40F07	4JF-1	4JF-h	46F16	-FS4	l l b
8EowI Eoruw	-1 2	14-4F40	1-2JF0S	1-20F16	1-62F44	4FJ7	l l b
8o&swwAum	-h 2	4S24F44	-00SF0J	-hS1F-2	-7h7F7-	-F2J	l l b
5EoOAum	1S- 1				1Sh		G
5EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				111		G
pqsnOAum	4J 2				hJ		G
peRenAum	72 1	2FSh	2F74	2FS0	2F-	17Fh4	l l b
peRenAum	00 2	JhF-4	42F4-	40F2S	4hF6J	10FJ6	l l b
peRenAum	07 2	11F61	12F0h	11F72	12FS0	JF2S	l l b
pARqon	27 1	11JFh0	12SF40	122Fh0	11hF7S	2Fh6	l l b
pARer	1S0 1	SF-6	SF-2	SF-0	SF-J	6F-6	l l b
pARer	1Sh 1	SF-1	SF-0	SF-h	SF-J	11F0-	l l b
poOAum	2- 2	274F4J	260F-J	26JF10	202F-2	-F77	l l b
p&ona&Aum	76 1	70F42	77F2h	70F11	70F61	SF0S	l l b
p&ona&Aum	77 1	hSF67	h-F26	h2F2-	h2FS6	1F41	l l b
pufRur	-4 1	6JSF-7	7S2F46	626F2J	6h-FS-		l l b
i erbAum	1Jh 1				112		G
i erbAum	1Jh 2				1S-		G
i EsRAum	2S- 1	SF-J	SF-0	SF-4	SF-6	4FS-	l l b
i EsRAum	2SJ 1	SF-4	SF-0	SF-4	SF-J	4F20	l l b
i An	117 1	2FhS	-FS0	2FhJ	2Fh0	2Fh6	l l b
i A&snAum	40 1	1S4F11	1S4FS1	1S6F-h	1S4F74	1F27	l l b
UrsnAum	2-7 1	-F40	-F44	-F44	-F4J	SF4J	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 11	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 6-	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109JJ9JJ	t s&s. Re:Nsme:9	1SJc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	02F11	60FJ2	60F74	6hF16	- F0S	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				110		G
Y&&Aum	7h 2				111		G
ZAnq	66 2	26- FJ6	246FJ1	2JSF21	2J- F4-	- FJ4	l l b
ZAqonAum	hS 1	4F0-	4Fhh	4F71	4F74	2F0h	l l b
ZAqonAum	h1 1	4F02	4F67	4Fh7	4F0h	- F42	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO:9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1046SF1S	1660JFh0	16167F0h	16067F2h	- F77	l l b
cn&mon%	121 1	1F0h	1F6J	1F70	1F00	6F20	l l b
crwenAq	0J 2	JJF0J	4hFfh	4hF71	J1F7J	6FJ1	l l b
BsrAum	1- J 1	4JSFh-	4- 1F=6	4- 6F1S	4- hF46	2F=2	l l b
BsrAum	1- 0 1	4J4F76	4- JF2S	4- - Fh2	441F=-	2F66	l l b
Ber%BAum	h 1	2FJ4	2F4-	2F=J	2F44	- F0h	l l b
BAumu&E	2Sh 1				1Sh		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F=0	- F4h	2F7J	- F24	1SFJ-	l l b
RsOmAum	1S6 1	1FS1	SF14	2F=S	1FS6	11JF0J	l l b
RsOmAum	111 1	2F7h	2FJ7	2F06	2F0J	JF62	l l b
RsRqAum	4- 1	6Sh0JF0J	J6166F6-	J61JhF=6	J0060F2J	4F71	l l b
RsRqAum	44 1	6- S- 2F64	J7242FJ0	J74hJF=1	Jhh2- FJ1	4FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	4JFh7	4- F76	42F0S	44F17	- F06	l l b
RobsR&	Jh 2	14F0S	1- Fh1	1- F07	14F1-	- FJ-	l l b
Rol l er	6- 2	hSF7J	76F2-	74F64	70F24	- F0S	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				111		G
y oFmAum	16J 2				1S6		G
DnOAum	11J 1				1S0		G
DnOAum	11J 2				h7		G
Don	J4 2	4- 41SFfh	- hJh4F64	- hh40F27	4Sh74F=S	JF1J	l l b
Don	J6 2	42- S0F66	4S- 6hFJ0	- h600F2h	4S074F74	- F=4	l l b
Don	J0 2	- 7076F70	- 7S1hF62	- 6466FJ4	- 00J0F67	- F1-	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	2- 7F24	226FS2	2- SFJ2	2- 1F6S	2F60	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. J1	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	220F6S	217F21	221F74	222FJJ	2F1-	l l b
LesO	2S7 1	247F24	2- 6F4J	242F41	242F- 6	2F4-	l l b
LAEAum	6 1				1S1		G
MsgnewAum	24 2	1J07hF40	14606Fhh	14- 7hF02	14hJ2FS6	4Fh4	l l b
Msngsnewe	JJ 2	14JhF21	1- 0SF2J	1- J4F6h	1- h4F01	4FS4	l l b
MoP%bOenum	h4 1	1JFJ7	14F06	14F62	14Fhh	- F47	l l b
MoP%bOenum	hJ 1	4F- h	- Fh1	- Fh-	4FS7	6F67	l l b
MoP%bOenum	h6 1	JF4J	JF2-	JF2S	JF- S	2FJ0	l l b
MoP%bOenum	h0 1	4F26	4F- 4	- Fh6	4F1h	4F6h	l l b
MoP%bOenum	h7 1	4F- -	4F14	- FhS	4F1-	JF22	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	- 0F00	- 4F6J	- JFJS	- JFh0	4F4h	l l b
8 EowI Eoruw	- 1 2	2- S2F70	21h0F- 6	224SF10	2246F7S	2F- 6	l l b
8 o&swwAum	- h 2	J1JhF60	4h27F70	40h4Fh2	4h61F1J	- F02	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S2		G
pqsnOAum	4J 1				1S7		G
pqsnOAum	4J 2				h6		G
pe?enAum	72 1	2FS4	1FJ-	1F70	1F71	14F2J	l l b
pe?enAum	00 2	67FJS	41F27	J- F66	J4F47	2JFS1	l l b
pe?enAum	07 2	11F7h	7F77	11F12	1SF6-	14F0S	l l b
pAqon	27 1	104F62	1J6F01	16SF12	16- F72	JF71	l l b
pA?er	1S0 1	1F1-	1F14	1F1-	1F14	SF66	l l b
pA?er	1Sh 1	1F16	1FSh	1F1-	1F1-	- F17	l l b
poOAum	2- 2	002FS1	01hF4-	02JF4S	0- 7FhJ	- FhS	l l b
p&on&Aum	76 1	266FSJ	2JJFS1	2J4FJ4	2J7FJ-	2FJ2	l l b
p&on&Aum	77 1	207FJ6	262Fh4	264F26	267FJh	- F22	l l b
pu?ur	- 4 1	12SJF42	- 7SF6h	4S- FJS	66- F2S	0SF72	l l b
i erbAum	1Jh 1				11S		G
i erbAum	1Jh 2				1S4		G
i EsPAum	2S- 1	SF41	SF4S	SF- 0	SF4S	JFh4	l l b
i EsPAum	2SJ 1	SF42	SF4S	SF- 7	SF4S	JFJ7	l l b
i An	117 1	4F74	4FJ7	4F64	4F6h	2FhJ	l l b
i A&snAum	40 1	27SFh1	2J0F7h	2J6F- h	26JFS6	JF17	l l b
UrsnAum	2- 7 1	4FS0	- F72	- Fh2	- Fh4	- F2-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S1	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J1	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:109J79J1	t s&s. Ae:Nsme:9	1S6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&w
VsnsOAum	J1 2	60FJS	64FJ0	61Fh0	64F67	4F27	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11J		G
Y&&Aum	7h 2				1S7		G
ZAnq	66 2	J- 1F06	4h7F- J	4h1FS7	JS0FS6	4F27	l l b
ZAqonAum	hS 1	0FSS	6F72	6F0h	6F70	1F64	l l b
ZAqonAum	h1 1	0F14	6F70	6F72	6Fh4	2F4J	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1hh0- F44	1hhh- F0J	22477F6S	2S717FJh	6FhJ	l l b
cn&mon%	121 1	SFh-	SF74	SF76	SF77	JFJ2	l l b
crwenAq	0J 2	1- FSJ	12F41	14F06	1- F4S	hFS6	l l b
BsrAum	1- J 1	J6JFS-	4h- FS2	4hJF24	J10F00	0Fh1	l l b
BsrAum	1- 0 1	J67FJS	4h- F- 6	4hSF60	J10FJ1	7FJ4	l l b
Ber%BAum	h 1	1F60	1F47	1F4-	1FJ2	7F- 0	l l b
BAumu&E	2Sh 1				1S0		G
BAumu&E	2Sh 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F04	1FJ2	1F4-	1FJ6	1SF1h	l l b
RsOmAum	1S6 1	1F4-	SF00	1F6S	SF- 1		l l b
RsOmAum	111 1	1FJS	1F20	1F4S	1F- h	7F4h	l l b
RsRqAum	4- 1	2- 166F71	21S44Fh2	2S47SF41	21J64FSJ	6FJ0	l l b
RsRqAum	44 1	2- hhSF7S	21676F67	2S066F2-	22140FhS	0FJS	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	2- F- 4	2- F76	20FS4	24F0J	7F1S	l l b
RobsR&	Jh 2	1- F10	1- F- 2	14F7-	1- F00	6F67	l l b
Rol l er	6- 2	- hF67	4SF7S	4JF16	41F77	6Fh1	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				1S0		G
y oFmAum	16J 2				1SJ		G
DrOAum	11J 1				1S4		G
DrOAum	11J 2				hh		G
Don	J4 2	- 7J00F04	- 72J0F4J	42J0SF- -	- h7S1F74	6FS4	l l b
Don	J6 2	- 0160FJ1	- 0246F01	417- - F- 1	- 704hF10	6F7h	l l b
Don	J0 2	- J11hF62	- J4S2F0J	- 776JF2h	- 6462FJJ	JF02	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7hFJ0	74F21	00FS7	7- F62	0FJS	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	7JF06	0hF2-	0- Fh4	0hF6J	0F4-	l l b
LesO	2S7 1	70FJJ	71F2-	06F66	71F71	6F67	l l b
LAEAum	6 1				hh		G
MsgnewAum	24 2	66- 2F4h	6014F22	04- JFJ1	6h20F41	6F- 7	l l b
Msngsnewe	JJ 2	0S2F16	0ShFhS	076F- 6	0- 2F71	6F- J	l l b
MoP%bOenum	h4 1	0FhS	7FS6	0FJJ	0F74	- F- 2	l l b
MoP%bOenum	hJ 1	1F46	1F- h	1F- 1	1F- h	JFJ2	l l b
MoP%bOenum	h6 1	2F4-	2FS0	1Fh0	2F16	11F- 4	l l b
MoP%bOenum	h0 1	1F64	1F- 0	1F- 2	1F44	11Fhh	l l b
MoP%bOenum	h7 1	1F46	1F- J	1F4-	1F41	- FhS	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	2- F- -	24F6h	26F62	24F77	6F64	l l b
8 EowI Eoruw	- 1 2	266JF64	26S4F- 0	- 2ShF0h	2726F6S	11F0h	l l b
8 o&swwAum	- h 2	66hhF00	66- 2FSh	047JF16	6h- hFSS	6F7-	l l b
5 EoOAum	1S- 1				1S-		G
5 EoOAum	1S- 2				1S-		G
pqsnOAum	4J 1				1S6		G
pqsnOAum	4J 2				h6		G
pe Re nAum	72 1	SFh0	SF7J	SFJJ	SF0h	20F- 6	l l b
pe Re nAum	00 2	22FSJ	- 7F02	44FJ2	- JF1S	- - F2-	l l b
pe Re nAum	07 2	6FJ7	6F26	JF67	6F10	0F- 2	l l b
pARqon	27 1	1h1F- 0	10hFh1	101F1S	17SF0h	JF62	l l b
pARer	1S0 1	SF2h	SF2J	SF2J	SF26	7FJS	l l b
pARer	1Sh 1	SF2h	SF2J	SF24	SF26	hFSS	l l b
poOAum	2- 2	174Fh2	17JFJJ	224F- 2	1h7F26	11F- 7	l l b
p&ona&Aum	76 1	J10F1-	472F40	474FJJ	4h4F02	- Fh-	l l b
p&ona&Aum	77 1	J- 7F- J	JS4FJ4	47- FS4	JS7F64	JF47	l l b
pu Rur	- 4 1	- 46FS-	764F- 0	1201F06	Jh6F0S		l l b
i erbAum	1Jh 1				1S7		G
i erbAum	1Jh 2				1SJ		G
i EsRAum	2S- 1	SF- -	SF20	SF27	SF- S	11FSJ	l l b
i EsRAum	2SJ 1	SF- 1	SF- S	SF- 1	SF- S	1FJ6	l l b
i An	117 1	2F46	2FS1	2F11	2F1h	1SF07	l l b
i A&snAum	40 1	11- FJ2	1S4Fh6	1S1F2J	1S6FJ7	JFhS	l l b
UrsnAum	2- 7 1	2F76	2F66	2F47	2F66	0F2-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. J4	t AR&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179S19J1	t s&s. Ae:Nsme:9	1S0c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	J7F7S	JhF0-	6JF01	61F41	6F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S7		G
Y&&Aum	7h 2				1S6		G
ZAnq	66 2	20hFJ0	277FJ6	- 16F16	2h4F06	6F40	l l b
ZAqonAum	hS 1	- FhS	- F6J	- F0S	- F0J	- FJS	l l b
ZAqonAum	h1 1	4F11	- F0S	- F4S	- F0-	hF6J	l l b

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	146- - .04	14700.67	14y16.h-	14606.12	1.2y	ppm
Aotiu Oo%	121 1	S.- 2	S.- 6	S.- 4	S.- 4	0.16	ppm
Aesboic	0y 2	1S.42	h.0h	h.44	h.77	y.Sy	ppm
BaeiNu	1- y 1	- 1h.2y	- 24.- S	- 17.SS	- 2S.y2	1.S4	ppm
BaeiNu	1- 0 1	- 22.40	- 27.04	- 16.04	- 22.6y	1.76	ppm
Bbe%liNu	h 1	1.S4	1.Sy	1.S4	1.S4	S.- 4	ppm
Bisu NtE	2Sh 1				1Sh		G
Bisu NtE	2Sh 2				1Sy		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	S.40	1.S-	S.66	S.02	- h.y-	ppm
Uadu iNu	1S6 1	- .07	- .46	y.S4	4.Sh		ppm
Uadu iNu	111 1	S.4h	S.y1	S.4y	S.47	y.h-	ppm
UalciNu	4- 1	1y244.26	1y461.S4	1y477.76	1y- h7.Sy	S.70	ppm
UalciNu	44 1	1y064.- y	1y066.2y	161- 1.- 6	1y770.- 2	1.- -	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- y 1						cps
UElOeiob	- y 2						cps
UEeOu iNu	y2 2	1y.1y	1y.72	1y.16	1y.- 7	2.y1	ppm
UOmalt	yh 2	h.4y	h.y6	h.- 0	h.46	1.S-	ppm
UOppbe	6- 2	21.01	22.1S	22.1-	21.h7	1.S0	ppm
D%speOsiNu	1y6 1						cps
D%speOsiNu	1y6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16y 1				111		G
MOlu iNu	16y 2				1Sy		G
IodiNu	11y 1				1S7		G
IodiNu	11y 2				h0		G
IeOo	y4 2	201y1.61	20S1S.71	26464.yy	2670y.66	1.- y	ppm
IeOo	y6 2	26yh2.44	26yy7.7y	2626S.04	2640S.60	S.6h	ppm
IeOo	y0 2	2462h.60	24h0h.61	24074.44	240h0.h1	S.01	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	- 0.S4	- 6.6h	- 6.hS	- 6.77	S.4h	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	- y.16	- y.- 0	- y.04	- y.42	S.7-	ppm
Lbad	2S7 1	- 6.- y	- 6.10	- 6.17	- 6.2-	S.27	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	y220.h4	y- yh.7-	y- yh.02	y- 1y.7-	1.4-	ppm
g aovaobsb	yy 2	477.h2	470.h-	47S.20	47y.01	S.h0	ppm
g Ol%mdboNu	h4 1	4.6-	4.2h	4.y7	4.yS	4.1y	ppm
g Ol%mdboNu	hy 1	S.07	S.67	S.0S	S.02	6.h1	ppm
g Ol%mdboNu	h6 1	1.17	1.16	1.1S	1.1y	- .4S	ppm
g Ol%mdboNu	h0 1	S.0y	S.6-	S.67	S.6h	7.00	ppm
g Ol%mdboNu	h7 1	S.04	S.67	S.66	S.6h	y.76	ppm
8 bOd%u iNu	1yS 1						cps
8 bOd%u iNu	1yS 2						cps
8 ickbl	6S 2	17.h4	17.1y	1h.S1	17.0S	2.y4	ppm
PEOspEOeNs	- 1 2	1S- 1.14	1S- 6.S2	h- - .06	1SSS.- 1	y.00	ppm
POtassiNu	- h 2	26h6.yS	201y.h7	2606.y6	26h6.- y	S.0-	ppm
n EOdiNu	1S- 1				1S0		G
n EOdiNu	1S- 2				1S2		G
r caodiNu	4y 1				1Sh		G
r caodiNu	4y 2				h4		G
r blboiNu	72 1	S.S0	S.1-	S.64	S.27	111.y2	ppm
r blboiNu	00 2	- 1.11	21.26	- 2.07	27.- h	21.h-	ppm
r blboiNu	07 2	6.- 0	y.64	6.4S	6.14	0.S6	ppm
r ilicOo	27 1	14S.40	147.- h	146.- 0	14y.S7	2.74	ppm
r ilRbe	1S0 1	S.11	S.12	S.1-	S.12	6.h2	ppm
r ilRbe	1Sh 1	S.1-	S.1-	S.11	S.12	h.yh	ppm
r OdiNu	2- 2	- 47.74	- yh.h7	- y1.- S	- y- .- 0	1.66	ppm
r teOotiNu	76 1	- 2h.7S	- - 4.00	- 24.7S	- 2h.0h	1.y1	ppm
r teOotiNu	77 1	- 41.y0	- 47.- 1	- - 6.12	- 42.SS	1.0h	ppm
r NfNe	- 4 1	2- S2.0-	2S04.1-	21yS.- 6	210y.04		ppm
TbemiNu	1yh 1				112		G
TbemiNu	1yh 2				1S2		G
TEalliNu	2S- 1	S.2S	S.22	S.22	S.21	0.S0	ppm
TEalliNu	2Sy 1	S.22	S.2-	S.22	S.22	2.yS	ppm
Tio	117 1	1.20	1.- 1	1.26	1.27	2.14	ppm
TitaoiNu	40 1	6y.SS	66.yy	60.Sy	66.2S	1.62	ppm
F eaoiNu	2- 7 1	1.- y	1.- y	1.4y	1.- 7	4.26	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S-	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSCyy	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S4947	DataCilb:8 au b:9	1S7An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	y1 2	- h.42	- h.h7	- h.02	- h.01	S.0S	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7h 1				112		G
YtteiNu	7h 2				hh		G
Zioc	66 2	12S.02	121.y2	11h.4-	12S.y6	S.77	ppm
ZieccOoiNu	hS 1	2.1-	2.24	2.1y	2.10	2.y6	ppm
ZieccOoiNu	h1 1	2.2y	2.- -	2.- S	2.2h	1.0-	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
AlNu ioiNu	20 2	2460- F12	2S462F62	2S- 6- F77	217- - F21	11F20	ppm
Aotiu Oo%	121 1	SFhh	SFhn	SFh4	SFh6	4F64	ppm
Aesboic	0h 2	4- F0n	- 0F6n	- - F74	- 7F44	1- FSh	ppm
BaeiNu	1- h 1	- 72F7-	- n1F- S	- 74F14	- 76FSn	1F17	ppm
BaeiNu	1- 0 1	- 74F01	- n7F4-	- n1FS1	- n1F- 7	1F06	ppm
Bbe%liNu	n 1	1F02	1F02	1F60	1F0S	1Fhn	ppm
Bisu NtE	2Sn 1				11S		G
Bisu NtE	2Sn 2				1SS		G
BeOu iob	71 1						cps
Radu iNu	1S7 1	1F2-	SFn0	SF0h	SFn7	24F72	ppm
Radu iNu	1S6 1	2Fh2	- F10	- Fh0	- FSn		ppm
Radu iNu	111 1	1FSh	SFn7	SFn7	1FSS	4F27	ppm
RalciNu	4- 1	1- 72hF7n	14S14F2-	1- nn2F62	1- n44F24	SF04	ppm
RalciNu	44 1	1406hF04	144S- F- n	142- hFn1	14467F- h	1F70	ppm
RaemOo	12 1						cps
RaemOo	12 2						cps
REIOeiob	- h 1						cps
REIOeiob	- h 2						cps
REeOu iNu	h2 2	h4F4n	4hFS7	4hF24	47F20	11F16	ppm
ROmalt	hn 2	- - Fn0	20Fnh	27F14	- SFS2	11F4S	ppm
ROppbe	6- 2	06Fn0	6- F2S	64F40	67F21	11F16	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
CemiNu	164 1						cps
CemiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
y Olu iNu	16h 1				11S		G
y Olu iNu	16h 2				1SS		G
IodiNu	11h 1				1S6		G
IodiNu	11h 2				n-		G
IeOo	h4 2	02hSSF06	hn726F27	6Sn00Fh6	644- 4F70	1SF77	ppm
IeOo	h6 2	016n- F74	hn604F0S	hnh- nF7h	6- 6- 6F1-	1SFn0	ppm
IeOo	h0 2	0- S21F20	6S7- 2Fn-	616S1FS6	6h1h1F06	1SF47	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	h6F- h	h0F07	h6FS4	h6F02	1F64	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
Lbad	2S0 1	h- F1S	h4F74	h- FS7	h- F60	1F7n	ppm
Lbad	2S7 1	h4F6n	h6F20	h4F61	hhF1n	1F01	ppm
LitEiNu	6 1				1S2		G
MagobsiNu	24 2	1- 112F04	1Sh06Fn0	1S0n1F66	114n- F0n	12F2-	ppm
Maogaobsb	hh 2	2646Fn7	2170F1n	2227Fn-	2- h4F- 0	1SF7S	ppm
MOl%mdboNu	n4 1	hF61	hF21	hF11	hF- 1	hFSS	ppm
MOl%mdboNu	nh 1	1F0h	1F06	1F77	1F0n	- Fnn	ppm
MOl%mdboNu	n6 1	2F1S	2F24	2FSn	2F14	- F74	ppm
MOl%mdboNu	n0 1	1F07	1F74	1Fn4	1F7h	4F- 1	ppm
MOl%mdboNu	n7 1	1F04	1F0h	1F7h	1F07	- FnS	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	7- FS0	67F77	60F0h	0- F2-	11F66	ppm
PEOspEOeNs	- 1 2	2277Fnh	211nF27	21n0F- 2	22S1F01	- F7h	ppm
POtassiNu	- n 2	07h- F0n	6h- hFn6	6h17F- h	6n6nF- 6	1SFnn	ppm
5 EOdiNu	1S- 1				1S0		G
5 EOdiNu	1S- 2				nn		G
r caodiNu	4h 1				1S7		G
r caodiNu	4h 2				n1		G
r blboiNu	72 1	- F12	2FnS	2F40	2F7-	11Fnn	ppm
r blboiNu	00 2	- hFn2	- 6F0-	- 6Fn4	- 6Fn-	1F40	ppm
r blboiNu	07 2	1- F24	nF0h	0F77	1SF2n	26F44	ppm
r ilicOo	27 1	21nF1h	21hFn0	214F0-	216F47	1FS7	ppm
r ilvbe	1S0 1	SF2n	SF27	SF- S	SF2n	2F2-	ppm
r ilvbe	1Sn 1	SF- 2	SF27	SF27	SF2n	7F62	ppm
r OdiNu	2- 2	h20F- 2	4- 7F07	4- 2F0-	466F27	11F- 6	ppm
r teOotiNu	76 1	11SF06	112F7S	112F22	111Fn-	SFn-	ppm
r teOotiNu	77 1	114F1h	121F16	11nFn2	117F27	- F1S	ppm
r NfNe	- 4 1	2Sh7F17	210hF4n	227hF21	2102Fn6		ppm
TbemiNu	1hn 1				11S		G
TbemiNu	1hn 2				nn		G
TEalliNu	2S- 1	SF42	SF46	SF4h	SF44	- Fn0	ppm
TEalliNu	2Sh 1	SF41	SF4h	SF41	SF42	6F1S	ppm
Tio	117 1	SFn7	1F11	1FS0	1FSh	hFn0	ppm
TitaoiNu	40 1	h0F6n	h0F74	h0FS-	h0Fn2	SF0h	ppm
UeaoiNu	2- 7 1	2F76	- FS1	2Fn4	2Fn-	2F40	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 S4	IosteNu obt:8 au b:9	P7
Rlibot:r au plb:ID:9	My S. h6	DilNtiOo:. actOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179S0947	Data. ilb:8 au b:9	1SnA5 C. Fd

Paeau btbe	Mass	ROo5 bp1	ROo5 bp2	ROo5 bp-	AvgF:ROocF	ROoc5 r D	Uoits
VaoadiNu	h1 2	1SnF0n	nSF72	nSFnn	n0F2S	11F22	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7n 1				11-		G
YtteiNu	7n 2				1S2		G
Zioc	66 2	2n7FnS	24nF- -	24hF- 6	264Ffn-	11F27	ppm
ZieoCoiNu	nS 1	2F1n	2F2-	2F24	2F22	1F1h	ppm
ZieoCoiNu	n1 1	2F14	2F2h	2F- 2	2F24	4FS4	ppm

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 6h	t Ar&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsmea&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
cRumAnAum	20 2	- 1712F- h	- 1720F41	- 24S- F6S	- 2S14F40	1FS:	l l b
cna&mon%	121 1	SF77	SF0h	SF6h	SF0h	12F40	l l b
crwenAq	0: 2	26F16	20FS1	2: F: :	26F24	2F0h	l l b
BsrAum	1- : 1	40SFhh	42: FS1	412F: :	4- 6F17	0FS6	l l b
BsrAum	1- 0 1	401FS1	422F6h	42- F7h	4- hF2S	6F20	l l b
Ber%BAum	h 1	2FhS	2F66	2F6-	2F0-	: F46	l l b
BAumu&E	2Sh 1				1S2		G
BAumu&E	2Sh 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	2FS2	1F04	1F: S	1F06	14F06	l l b
RsOmAum	1S6 1	1Fh1	SF: 2	SFh4	SF1:	1S14F44	l l b
RsOmAum	111 1	1F02	1F: -	1F: 1	1F: h	0F- 2	l l b
RsRqAum	4- 1	47- : 4F- 0	42- - - F4-	4S7- hF47	4- 742F4-	hFS0	l l b
RsRqAum	44 1	: SS- : F4:	4- 77- F47	416S7F- S	4: 10: F04	hF6:	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- : 1						ql w
REFrAne	- : 2						ql w
REromAum	: 2 2	42F- -	42F71	42F27	42F40	SF6h	l l b
RobsR&	: h 2	21F- :	22F16	22F2h	21Fh-	2F- -	l l b
RoI I er	6- 2	47F0S	4hF00	: SF: 7	4hF67	1FhS	l l b
t %wI rowAum	1: 6 1						ql w
t %wI rowAum	1: 6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16: 1				1S:		G
y oFnAum	16: 2				1S0		G
DnOAum	11: 1				1S1		G
DnOAum	11: 2				1SS		G
Don	: 4 2	62106F72	6- 44SF: 2	6- 41- FS2	6- S1SF12	1F1:	l l b
Don	: 6 2	61014FS-	6202- F: 6	6- S2SF: 7	62476FS:	1F1S	l l b
Don	: 0 2	626- SF: 1	64100F: 6	6- h: 7Fh7	6- : 7hFS2	1F- 2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	7- FSS	0- F20	0SF1:	0: F40	7F70	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenA9psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	0hFh1	6hF04	66F: S	02FS:	hF01	l l b
LesO	2S7 1	71Fh-	01F40	67F26	0- F7h	hF67	l l b
LA&EAum	6 1				h7		G
MsgnewAum	24 2	14S7: F14	14022F6h	14- 66F16	14- h1F- -	2F22	l l b
Msngsnewe	: : 2	11S1F1S	11- 4F7h	1120FS6	1121FS2	1F: 7	l l b
MoP%bOenum	h4 1	11FS-	hF64	hFS0	hFh1	1SF10	l l b
MoP%bOenum	h: 1	2Fh7	2F: h	2F: 4	2F0S	hFSS	l l b
MoP%bOenum	h6 1	- FhS	- F46	- F20	- F: 4	hF2S	l l b
MoP%bOenum	h0 1	- F1S	2FhS	2F01	2FhS	6F67	l l b
MoP%bOenum	h7 1	- FS0	2Fh1	2F6:	2F77	0F4h	l l b
NeoO%mAum	1: S 1						ql w
NeoO%mAum	1: S 2						ql w
NAqkeP	6S 2	: hF2:	: hF7h	61F12	6SFSh	1F: 7	l l b
8EowI Eoruw	- 1 2	1661F- 6	1077Fh0	1h- 4Fh-	10h: FSh	0F6-	l l b
8oa&swwAum	- h 2	6616F7h	67S6F0-	674SF2S	60: 4F6S	1F07	l l b
5EoOAum	1S- 1				1SS		G
5EoOAum	1S- 2				1S:		G
pqsnOAum	4: 1				1S2		G
pqsnOAum	4: 2				hh		G
peRenAum	72 1	- F: h	1F04	2F: h	2F64	- : F16	l l b
peRenAum	00 2	6- FhS	6SFS-	6- F61	62F: 1	- F4:	l l b
peRenAum	07 2	hF24	1SF44	12FSh	1SF: h	1- F: S	l l b
pARqon	27 1	2- 6FS-	21SF- 7	1h: F4h	21- Fh0	hF: h	l l b
pARer	1S0 1	SF- 0	SF- -	SF- 2	SF- 4	0Fh2	l l b
pARer	1Sh 1	SF- 6	SF- 2	SF- 1	SF- -	7F2-	l l b
poOAum	2- 2	20SFhS	20hF7S	27SF01	200F14	1Fh6	l l b
p&ona&Aum	76 1	10- F- 2	1: 0F61	140F64	1: hF: 2	7F11	l l b
p&ona&Aum	77 1	174FS7	161F0:	1: 7F77	167F24	7F2S	l l b
pufRur	- 4 1	221F46	1126F4:	1414Fh4	00- F- 1		l l b
i erbAum	1: h 1				1S4		G
i erbAum	1: h 2				1S0		G
i EsRAum	2S- 1	SF00	SF6h	SF6h	SF02	6F67	l l b
i EsRAum	2S: 1	SF07	SF0S	SF60	SF02	7FSS	l l b
i An	117 1	4F- 1	- F64	- FhS	- Fh:	7F: 6	l l b
i A&snAum	40 1	1S: F- 4	h- F: 7	7hF72	h6F2:	7F41	l l b
UrsnAum	2- 7 1	- F66	- F1h	- FS:	- F- S	hF64	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 6h	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J1SJ4-	t s&s. Ae9Nsme9J	11Sc 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
VsnsOAum	: 1 2	h: F0:	h: F44	h0F44	h6F21	1F11	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				111		G
Y&&Aum	7h 2				114		G
ZAnq	66 2	26- F- S	260F2S	26hF0:	266F0:	1F22	l l b
ZAqonAum	hS 1	4F07	4F2-	- Fh6	4F- 2	hF0S	l l b
ZAqonAum	h1 1	4Fhh	4F11	4F2:	4F4:	1SF: h	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179 1 - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	17JS- FJ0	10706F71	10066FS6	17172F27	- F4h	l l b
cn&mon%	121 1	1F6J	1F01	1F02	1F01	1FS2	l l b
crwenAq	0h 2	0SFJ6	60F2J	67F- 1	67F7h	2F0h	l l b
BsrAum	1- h 1	40- FJ1	461FSJ	404F4J	46JF7-	1F61	l l b
BsrAum	1- 0 1	462F42	461FJS	476FJJ	40SF44	- FSh	l l b
Ber%BAum	J 1	- F00	- F71	- F0S	- F06	1F4J	l l b
BAumu&E	2SJ 1				1S7		G
BAumu&E	2SJ 2				1S7		G
BromAne	71 1						ql w
RsOmAum	1S7 1	- F6S	4F2J	- F- 4	- F04	1- FS7	l l b
RsOmAum	1S6 1	4F1-	1FJ1	- F22	- FSJ	- 6FS2	l l b
RsOmAum	111 1	- F41	- F22	- F2S	- F27	- F6h	l l b
RsRqAum	4- 1	4SJ64Fh2	4SS06F2h	4S6S- F01	4Sh47F16	1F1S	l l b
RsRqAum	44 1	4- S6SF2-	42112FS6	421h- F46	42441FJ2	1F26	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	20F47	2hF6S	2hF44	26F10	4F- 4	l l b
RobsR&	hJ 2	16F40	1hF- 2	1hF21	1hF60	4F44	l l b
Rol l er	6- 2	6- F- 7	h7F00	h7F02	6SF2J	4F44	l l b
t %w l rowAum	1h6 1						ql w
t %w l rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16h 1				111		G
y oFnAum	16h 2				1S7		G
DnOAum	11h 1				1SJ		G
DnOAum	11h 2				1S1		G
Don	h4 2	62027FJ0	h0h42F27	h6- J- F67	h7777F- 1	hF0-	l l b
Don	h6 2	62S0hF26	h027hF4h	h062hF22	h7JJhF- 1	4Fh-	l l b
Don	h0 2	62hhhF6-	h0JS0FSS	h07J2F64	hJ4h1F06	4Fh2	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	247FhS	241F1-	24JFh4	246F- J	1F76	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 0S	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179l - 9 J	t s&s. Ae:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	242FJh	2- 2FJS	2- 0F0J	2- 0F77	2F11	l l b
LesO	2S7 1	2h0F60	2hSF7-	2hhF70	2h4F0J	1F- J	l l b
LAEAum	6 1				1S2		G
MsgnewAum	24 2	10J12FJ4	10S6- F4-	16hh1F12	1010hF7-	4FSS	l l b
Msngsnewe	hh 2	2114F74	1J0- FS0	1Jh0F62	2S1hF17	4F- S	l l b
MoP%bOenum	J4 1	12F47	11F72	12F10	12F16	2F0-	l l b
MoP%bOenum	Jh 1	hFJ4	6FS6	6FS-	6FS1	1FS7	l l b
MoP%bOenum	J6 1	6F0-	6F64	6F04	6F0S	SF7S	l l b
MoP%bOenum	J0 1	6F11	6F1-	6FSS	6FS7	1F10	l l b
MoP%bOenum	J7 1	6FSS	hFJ2	6F1S	6FS1	1F40	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 1F0S	2JF21	27F- 7	2JF06	hF71	l l b
8 EowI Eoruw	- 1 2	1J- 6FJ2	17J6Fh2	17J- F27	1JS7FJ1	1F20	l l b
8 o&swwAum	- J 2	7S0SF24	06- - F4h	06S7FSS	000SFh0	- F- 4	l l b
5 EoOAum	1S- 1				1S6		G
5 EoOAum	1S- 2				1S0		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				1S1		G
pe?enAum	72 1	1F0J	1F4J	1F04	1F60	JF74	l l b
pe?enAum	00 2	70F77	7hFS-	7SF44	74F4h	4F4h	l l b
pe?enAum	07 2	14Fh6	1- F44	1hFJJ	14F66	7F0-	l l b
pAqon	27 1	1h1F26	14JFSS	147F4S	14JFhh	1FS1	l l b
pAer	1S0 1	1F7h	1F6J	1F0J	1F07	4F62	l l b
pAer	1SJ 1	1F07	1F71	1F7-	1F71	1F- h	l l b
poOAum	2- 2	2hSF2J	2- 0F07	2- 6FJS	241F66	- F1S	l l b
p&on&Aum	76 1	147F22	1hSFSS	14JF70	14JF- 6	SF66	l l b
p&on&Aum	77 1	1h6F7J	1h0F4J	1h2F2J	1hhFhh	1F7-	l l b
pulPur	- 4 1	- JF1h	76F4S	7- F- S	14FS7		l l b
i erbAum	1hJ 1				111		G
i erbAum	1hJ 2				1S0		G
i EsPAum	2S- 1	SF6J	SF6J	SF6J	SF6J	SF1J	l l b
i EsPAum	2Sh 1	SF0S	SF67	SF66	SF67	2FJJ	l l b
i An	117 1	- F4-	- F- 0	- Fhh	- F4h	2F67	l l b
i A&snAum	40 1	462F26	447F0J	4h6F64	4hhF7J	1F47	l l b
UrsnAum	2- 7 1	6FS0	hF74	6FS4	hFJ7	2FS0	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 16	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0S	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:179 1 - 9 J	t s&s. Re:Nsme:9	111c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	60F44	6- FJS	62F74	64F02	- F02	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				117		G
ZAnq	66 2	672F21	6- 2F6-	6- JF4-	6h1F42	4F1-	l l b
ZAqonAum	JS 1	4FS7	4F1h	4F2h	4F16	2FS7	l l b
ZAqonAum	J1 1	4F- 6	4F- 1	4F20	4F- 1	1F14	l l b

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
AlNu ioiNu	20 2	21717.yy	22S4- .22	216h6.- 1	217- y.h1	S.7y	ppm
Aotiu Oo%	121 1	2.S6	2.- 2	2.2-	2.2S	6.1S	ppm
Aesboic	0h 2	71.S7	71.12	0y.7S	7S.66	S.y-	ppm
BaeiNu	1- h 1	h- h.0h	hhy.- 7	hh2.2-	h4y.12	2.21	ppm
BaeiNu	1- 0 1	h20.77	h6h.- y	hhS.1S	h40.0y	- .44	ppm
Bbe%liNu	y 1	4.S7	4.2h	4.26	4.1y	2.- y	ppm
Bisu NtE	2Sy 1				11S		G
Bisu NtE	2Sy 2				1S6		G
BeOu iob	71 1						cps
Uadu iNu	1S7 1	h.h4	4.77	h.y0	h.40	1S.S-	ppm
Uadu iNu	1S6 1	- .h2	4.40	4.1y	4.S6	12.Sy	ppm
Uadu iNu	111 1	- .y7	4.- 4	4.S0	4.1-	4.h2	ppm
UalciNu	4- 1	4- yh- .20	4h662.47	4h- 40.h6	44y70.00	2.S2	ppm
UalciNu	44 1	4h044.16	46yS2.4y	46001.22	46402.62	1.- 6	ppm
UaemOo	12 1						cps
UaemOo	12 2						cps
UElOeiob	- h 1						cps
UElOeiob	- h 2						cps
UEeOu iNu	h2 2	- 2.6-	- - .2S	- 2.6h	- 2.7-	S.yy	ppm
UOmalt	hy 2	2S.0y	21.47	2S.06	21.S1	1.y4	ppm
UOppbe	6- 2	yS.71	y2.2-	y1.76	y1.64	S.7S	ppm
D%speOsiNu	1h6 1						cps
D%speOsiNu	1h6 2						cps
5emiNu	164 1						cps
5emiNu	164 2						cps
HadOlioiNu	16S 1						cps
HadOlioiNu	16S 2						cps
MOlu iNu	16h 1				11S		G
MOlu iNu	16h 2				1S7		G
IodiNu	11h 1				1S7		G
IodiNu	11h 2				1SS		G
IeOo	h4 2	6yhyy.74	6y614.1-	67722.67	6y- 4h.hh	S.6h	ppm
IeOo	h6 2	674- 0.20	6y- S7.h-	6y110.h4	67yh4.44	S.66	ppm
IeOo	h0 2	0S- 6- .0h	0Sy7S.2h	01S4h.27	0S0y6.4-	S.h-	ppm
Ke%ptOo	7- 1						cps
Lbad	2S6 1	247.67	2h0.1h	2h4.S-	2h- .2y	1.6y	ppm

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LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169 -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
Lbad	2S0 1	24S.hS	24y.Sy	24h.14	244.y1	1.06	ppm
Lbad	2S7 1	2hy.- -	26y.S1	26h.24	264.h-	1.7h	ppm
LitEiNu	6 1				1S2		G
g avobsiNu	24 2	172y0.01	1ySy6.00	176- S.17	17604.77	2.1h	ppm
g aovaobsb	hh 2	2hy1.40	261S.76	26- h.21	2612.h1	S.74	ppm
g Ol%mdboNu	y4 1	17.S1	17.40	17.4-	17.- S	1.- y	ppm
g Ol%mdboNu	yh 1	7.S6	7.1-	7.24	7.1h	1.1-	ppm
g Ol%mdboNu	y6 1	y.2h	y.1h	y.21	y.2S	S.hh	ppm
g Ol%mdboNu	y0 1	7.Sh	7.42	7.16	7.21	2.- 4	ppm
g Ol%mdboNu	y7 1	7.2S	7.h4	0.y7	7.24	- .4S	ppm
8 bOd%u iNu	1hS 1						cps
8 bOd%u iNu	1hS 2						cps
8 ickbl	6S 2	4S.y6	42.2-	41.04	41.64	1.h4	ppm
PEOspEOeNs	- 1 2	24y0.S6	2h6S.S4	2- 2h.- S	246S.7S	4.y4	ppm
POtassiNu	- y 2	0721.h-	0y10.h1	0766.hh	0767.h-	S.61	ppm
n EOdiNu	1S- 1				1S6		G
n EOdiNu	1S- 2				1Sh		G
r caodiNu	4h 1				1Sy		G
r caodiNu	4h 2				yy		G
r blboiNu	72 1	1.yS	2.4-	2.- y	2.24	12.yy	ppm
r blboiNu	00 2	06.h1	70.71	70.S0	7- .0y	0.h4	ppm
r blboiNu	07 2	1h.44	1h.h-	1h.66	1h.h4	S.01	ppm
r ilicOo	27 1	146.21	161.S-	1h2.yS	1h- .- 7	4.74	ppm
r ilRbe	1S0 1	1.71	1.y1	1.76	1.76	2.h1	ppm
r ilRbe	1Sy 1	1.7S	2.S4	1.7h	1.yS	6.hh	ppm
r OdiNu	2- 2	- h1.27	- 6S.47	- h2.y7	- h4.y2	1.- 7	ppm
r teOotiNu	76 1	1y1.- 6	1yS.22	174.6S	177.0-	1.y2	ppm
r teOotiNu	77 1	1y2.h7	1yy.16	1yh.- 1	1yh.67	1.6y	ppm
r NfNe	- 4 1	10S.2y	ySS.h6	y60.2-	60y.- 6	6h.S7	ppm
TbemiNu	1hy 1				11S		G
TbemiNu	1hy 2				1Sh		G
TEalliNu	2S- 1	S.0y	S.71	S.00	S.0y	2.00	ppm
TEalliNu	2Sh 1	S.07	S.00	S.72	S.0y	- .0y	ppm
Tio	117 1	6.2h	6.0y	6.07	6.61	4.67	ppm
TitaoiNu	40 1	- h6.SS	- 67.0-	- 60.7y	- 64.2S	1.yh	ppm
F eaoiNu	2- 7 1	6.70	0.S6	6.y2	6.yh	1.4h	ppm

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Inst Id :P8

LB:8 Nu mbe:9	LB1264S0	3 pbeatOe:9	Jaswal
Lamr au plb:ID:9	3 - 447 10	IosteNu obt:8 au b:9	P7
Ulibot:r au plb:ID:9	g MSC01	DilNtiOo:CactOe:9	1
Datb:&:Tiu b:AcqNiebd:9	2S2- S0 12:179169- -	DataCilb:8 au b:9	112An 5 C.d

Paeau btbe	g ass	UOon bp1	UOon bp2	UOon bp-	ARv.:UOoc.	UOocn r D	F oits
VaoadiNu	h1 2	7S.72	7S.60	7S.- 4	7S.61	S.- 1	ppm
YttbemiNu	102 1						cps
YttbemiNu	102 2						cps
YttbemiNu	106 1						cps
YttbemiNu	106 2						cps
YtteiNu	7y 1				12S		G
YtteiNu	7y 2				110		G
Zioc	66 2	60- .6h	67S.60	6h7.04	601.S2	1.60	ppm
ZieoCoiNu	yS 1	6.6S	6.6-	6.h6	6.6S	S.h6	ppm
ZieoCoiNu	y1 1	6.h4	6.64	6.7-	6.60	2.2-	ppm

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1JS72Fh2	10h60FhS	1h072F2h	10400F42	JF4h	l l b
cn&mon%	121 1	- F71	4FS2	4FS4	- FJ6	- F22	l l b
crwenAq	0h 2	1S4F2h	J6F72	77F0S	J6FhJ	7FSh	l l b
BsrAum	1- h 1	h20F27	h- hF14	h1hF46	h2hFJ6	1F77	l l b
BsrAum	1- 0 1	h- SF06	h- 6FJh	h10F47	h27F4S	1F77	l l b
Ber%BAum	J 1	2FhJ	2Fhh	2F40	2Fh4	2F47	l l b
BAumu&E	2SJ 1				11-		G
BAumu&E	2SJ 2				1SJ		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1- F4J	16F16	14FJ-	14F76	7FJ0	l l b
RsOmAum	1S6 1	1SF04	11F41	1SF2J	1SF71	hF22	l l b
RsOmAum	111 1	1SF64	1SF74	1SFh2	1SF60	1Fh4	l l b
RsRqAum	4- 1	27274F2-	2JS- 2F6h	2772- FS0	2701- F- 2	1F- 4	l l b
RsRqAum	44 1	2J60SF0-	2JJ- 6FJ-	- S1SJF27	2JJShF6h	SF04	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAum	h2 2	4SF62	- 6FJ1	- - F71	- 0F12	JF1J	l l b
RobsR&	hJ 2	16F0-	1hF41	1- F62	1hF2h	1SF26	l l b
Rol l er	6- 2	177F- -	102F6h	1h6F47	102F4J	JF2-	l l b
t %wl rowAum	1h6 1						ql w
t %wl rowAum	1h6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16h 1				112		G
y oFmAum	16h 2				1S0		G
DnOAum	11h 1				112		G
DnOAum	11h 2				1S1		G
Don	h4 2	hJ424F42	h- 044F22	4746JF1S	h- 70JF2h	1SF10	l l b
Don	h6 2	h760hF7S	h4SS- F- 4	474JJFS4	h- 026FS6	JF47	l l b
Don	h0 2	hJ4h1F- S	h40- SF21	47714FJS	h4- - 2F14	JF71	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	10JJF72	10J2F44	1004F4J	1077FJ2	SF0-	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 02	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	102- Fh0	10hSF01	1064F-4	1046F21	1F1J	l l b
LesO	2S7 1	1007F60	1004FJ2	107hFS-	100JFh4	SF2J	l l b
LAEAum	6 1				1S4		G
MsgnewAum	24 2	141h0FJS	1200SFh-	11- h7F42	12062F27	1SFJ0	l l b
Msngsnewe	hh 2	222hF-S	2S4SFh2	171- FSh	2S26F2J	1SF1J	l l b
MoP%bOenum	J4 1	JFhS	JF2J	JFS1	JF20	2F61	l l b
MoP%bOenum	Jh 1	hF46	hF26	hF-2	hF-h	1F70	l l b
MoP%bOenum	J6 1	hF71	6FS7	hF71	hFJS	2F61	l l b
MoP%bOenum	J0 1	hF4h	hF6h	hF02	hF61	2F4J	l l b
MoP%bOenum	J7 1	hF46	hF44	hF-7	hF4-	SF6J	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	- 0F14	- - F62	27FJh	- - F2-	12F-6	l l b
8 EowI Eoruw	- 1 2	- 16SF- -	- 147F42	2066F00	- S2hF10	0F4S	l l b
8 o&swwAum	- J 2	1S221FS4	J21JF66	7- 21F22	J2h- FJ0	1SF20	l l b
5 EoOAum	1S- 1				1SJ		G
5 EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				111		G
pqsnOAum	4h 2				JJ		G
pe?enAum	72 1	1F6J	2FSh	1F-1	1F67	21F74	l l b
pe?enAum	00 2	6hF41	hhF72	h- FSJ	h7F1S	11F14	l l b
pe?enAum	07 2	12FJJ	JFJh	11F14	11F-6	1- F40	l l b
pAAqon	27 1	1hJF2S	16hF17	16- F00	162F02	1FJ2	l l b
pA?er	1S0 1	JFJ7	1SF1h	1SF61	1SF24	- F2S	l l b
pA?er	1SJ 1	1SF21	1SFhS	JF7-	1SF17	- F-S	l l b
poOAum	2- 2	7h1Fh4	0h7Fh6	672F1-	064FS7	11F1S	l l b
p&on&Aum	76 1	17hF7-	177F04	17hF44	176F60	SFJ0	l l b
p&on&Aum	77 1	1J7F1J	1JhFS-	1J6Fh0	1J6F6S	SF7S	l l b
pulPur	- 4 1	220- FJ7	26J6F-4	264SF47	2h- 6FJ4	JFS4	l l b
i erbAum	1hJ 1				11-		G
i erbAum	1hJ 2				1S6		G
i EsPAum	2S- 1	SFh0	SFh2	SFh0	SFhh	4Fh4	l l b
i EsPAum	2Sh 1	SFh6	SFh7	SFh0	SFh0	2F1S	l l b
i A	117 1	JFJ-	1SFhh	1SF17	1SF22	- FS7	l l b
i A&snAum	40 1	hS4FSJ	h12F-S	h1- F-J	hSJFJ-	1FSS	l l b
UrsnAum	2- 7 1	4FSJ	4FS4	4F1S	4FS7	SF06	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 17	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 02	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:179lJ92J	t s&s. Ae:Nsme:9	11- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	h1 2	07F66	01F72	6hF46	01FJ7	JF10	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7J 1				117		G
Y&&Aum	7J 2				11-		G
ZAnq	66 2	2S1JF7J	174hF20	1664FS-	174- FS6	JF6h	l l b
ZAqonAum	JS 1	2F76	2F0-	2F01	2F00	2F7-	l l b
ZAqonAum	J1 1	2F06	2F7h	2F06	2F0J	1F76	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFenaqpsml Re9D 9J9	My S. 0-	t Ar&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
cRmAmAm	20 2	1h- : 2F27	1h- 67F12	1h- 2SFS:	1h- 6SF16	SF24	l l b
cn&mon%	121 1	- F- 7	- F- :	- F26	- F- 4	2F2S	l l b
crwenAq	0h 2	: 7F67	: 4F61	1SSF44	: 0F. 1	- FS6	l l b
BsrAm	1- h 1	44: FSh	4h2F. :	44: F47	4hSFh1	SF47	l l b
BsrAm	1- 0 1	4h4F60	4h0F7S	4h1F. 4	4h4F71	SF6h	l l b
Ber%BAm	: 1	2F2:	2F27	2F2h	2F20	SF71	l l b
BAmu&E	2S: 1				111		G
BAmu&E	2S: 2				1S6		G
BromAne	71 1						ql w
RsOmAm	1S7 1	1- F67	1hF77	14F02	14F06	0F4h	l l b
RsOmAm	1S6 1	7F11	11F1:	1SFSS	: F06	1hF. 2	l l b
RsOmAm	111 1	16F41	16F- :	1hF. 6	16F2h	1Fhh	l l b
RsRqAm	4- 1	1h74SF0h	1h0- : Fhh	1h: : SF6S	1h7h6F. 0	SF7S	l l b
RsRqAm	44 1	16461Fh1	16- 1hF. 4	102- 7F1h	16601F70	2F. 0	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- h 1						ql w
REFrAne	- h 2						ql w
REromAm	h2 2	24F- h	24F40	24F66	24F4:	SF62	l l b
RobsR&	h: 2	11F70	11F60	11F7-	11F0:	SF. S	l l b
RoI I er	6- 2	14hF47	146F2S	140FS2	146F2-	SFh-	l l b
t %wI rowAm	1h6 1						ql w
t %wI rowAm	1h6 2						ql w
CrbAm	164 1						ql w
CrbAm	164 2						ql w
HsOoFhAm	16S 1						ql w
HsOoFhAm	16S 2						ql w
y oPmAm	16h 1				112		G
y oPmAm	16h 2				1S6		G
DrOAm	11h 1				111		G
DrOAm	11h 2				1SS		G
Don	h4 2	4- S76F- 4	42: - 0F7:	4274- F76	42: h6FS-	SF27	l l b
Don	h6 2	42621F4-	42216F1-	42h- 7F21	424h7Fh:	SFhS	l l b
Don	h0 2	- : 676F- 0	42: 04F11	- : - 4- F0-	4S667FS0	4F. -	l l b
Kr%I &on	7- 1						ql w
LesO	2S6 1	706F- h	777FS:	777F04	774F- :	SF0:	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RAenaqpsml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7.J22.J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsmea&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	744F60	701F46	760F-1	761F14	1F60	l l b
LesO	2S7 1	7h0F0h	77SF00	704F.1	701F14	1F-0	l l b
LA&EAum	6 1				1Sh		G
MsgnewAum	24 2	021hF7-	0116F27	0247F11	01: - F4S	SF.6	l l b
Msngsnewe	hh 2	1062F7:	1h07F.4	1027F11	167: F.7	hF07	l l b
MoP%bOenum	: 4 1	: F.S	: F61	: F.0	: F7-	1F.1	l l b
MoP%bOenum	: h 1	hF.0	6FS2	6FS-	6FS1	SFh2	l l b
MoP%bOenum	: 6 1	6F-2	6F6:	6F61	6Fh4	2F.6	l l b
MoP%bOenum	: 0 1	6F6:	6F26	6F17	6F-0	4F2:	l l b
MoP%bOenum	: 7 1	6FS4	6F2:	6F1h	6F16	2FS2	l l b
NeoO%mAum	1hS 1						ql w
NeoO%mAum	1hS 2						ql w
NAqkeP	6S 2	26F26	26FSh	26F11	26F14	SF41	l l b
8EowI Eoruw	- 1 2	1- 4- F20	14- 2F2S	1h47FS4	1441F10	0F12	l l b
8o&swwAum	- : 2	hhS1F17	h- 04FS4	h416F.0	h4- SF0-	1F1:	l l b
5EoOAum	1S- 1				1S:		G
5EoOAum	1S- 2				1Sh		G
pqsnOAum	4h 1				11S		G
pqsnOAum	4h 2				: :		G
pe?enAum	72 1	1F17	SF76	1F1h	1FS0	16F47	l l b
pe?enAum	00 2	hSFS0	41F77	42F.S	44F.h	: F.-	l l b
pe?enAum	07 2	7F.2	0F76	0F40	7FS7	: F-4	l l b
pAAqon	27 1	1- hF66	1- 0F76	1- 7F47	1- 0F- -	1FS7	l l b
pA?er	1S0 1	hFS2	hF21	hF- -	hF1:	- FS-	l l b
pA?er	1S: 1	hF16	hF2h	hF11	hF10	1F-:	l l b
poOAum	2- 2	71- F1S	7S0FS1	71hFS0	711F0-	SFh2	l l b
p&on&Aum	76 1	101FS:	167F77	10- F-4	101F1S	1F-1	l l b
p&on&Aum	77 1	171F0:	17- F.S	172F0S	172F7S	SFh7	l l b
pu?ur	- 4 1	7SF.S	- : 1F2S	hhF-6	10hF72		l l b
i erbAum	1h: 1				112		G
i erbAum	1h: 2				1Sh		G
i EsPAum	2S- 1	SF4-	SF44	SF40	SF4h	4F.1	l l b
i EsPAum	2Sh 1	SF44	SF4-	SF42	SF4-	2F66	l l b
i A	117 1	6Fh1	6F7:	6FhS	6F6-	- F-0	l l b
i A&snAum	40 1	4S1F6-	41SF42	41SFh:	4S0Fhh	1F26	l l b
UrsnAum	2- 7 1	- F6S	- F6-	- F01	- F64	1F4:	l l b

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Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 1:	Dw&umne&Nsme9J	8 7
RFAena&psml Re9D 9J9	My S. 0-	t AR&on9 sq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129I7J22J2-	t s&s. Ae9Nsme9J	114c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF9RonqF	Ronq5 pt	Un&w
VsnsOAum	h1 2	02F:	0- F46	0- F- :	0- F27	SF- 4	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7: 1				116		G
Y&&Aum	7: 2				1S:		G
ZAnq	66 2	224- F00	22- 7F46	2262F2:	2247F17	SFh6	l l b
ZAqonAum	: S 1	2F04	2F6h	2F7:	2F06	4F- 1	l l b
ZAqonAum	: 1 1	2F00	2Fh7	2F7:	2F0h	hF6-	l l b

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Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t AR&n5:. sq&ar:J	1
t s&:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5A&w
cRmA5Aum	20 2	M112MOy6	M1y66O46	MSSy4O12	M1S62O19	1O94	l l b
c5&mn5h	121 1	4y1O9y	MS1O69	MS1O16	4y9O24	1O11	l l b
crwe5Aq	0M2	M27OM6	M70Oy1	M7SOS9	M7SOM2	1O7M	l l b
BsrAum	17M1	2461O90	240yO9S	2M1yO40	2490OSM	1O1y	l l b
BsrAum	170 1	27ySOS7	2462O7y	2MS7O1S	24M1O94	2O74	l l b
BerhRAum	y 1	460OO1	460O19	469OSy	460O66	SO1S	l l b
BAumu&%	2Sy 1				y6		E
BAumu&%	2Sy 2				9y		E
BrnmA5e	91 1						ql w
3 sOmAum	1S9 1	49MOy9	4y6O40	4y0O69	4y7O79	1O7S	l l b
3 sOmAum	1S6 1	46yO9M	490Oy0	496O16	491O77	2OS0	l l b
3 sOmAum	111 1	40SOS9	4y1O97	490Oy	497O24	2O7y	l l b
3 sRqAum	47 1	27M217O62	244MS0Oy2	24M607O72	2410y9O2y	2O70	l l b
3 sRqAum	44 1	271999Oy2	24S020O16	27979yOS9	270SS1O02	1Oy7	l l b
3 srbn5	12 1						ql w
3 srbn5	12 2						ql w
3 %RrA5e	7M1						ql w
3 %RrA5e	7M2						ql w
3 %nmAum	M2 2	497O17	4y1O22	496Oy2	490OSy	SO97	l l b
3 nbsR&	My 2	496O7M	4ySO74	49yO17	499O61	SO42	l l b
3 nI l er	67 2	MSSSO90	MS6MO70	MS2MO1y	MS7SO40	SOOM	l l b
t hwI rnwAum	1M6 1						ql w
t hwI rnwAum	1M6 2						ql w
GrbAum	164 1						ql w
GrbAum	164 2						ql w
HsOnR5Aum	16S 1						ql w
HsOnR5Aum	16S 2						ql w
KnRmAum	16M1				1S4		E
KnRmAum	16M2				yM		E
D5OAum	11M1				y0		E
D5OAum	11M2				9M		E
Dn5	M4 2	1202270M0	171y1SOSM	129Sy7OS0	12yS0MOM6	1Oy7	l l b
Dn5	M6 2	12y279O14	17S74SOMM	12096MOS4	12y140Oy1	SOy6	l l b
Dn5	M0 2	12yy97O67	17SS12O9M	171606O07	17SMM0O04	SO04	l l b
krhI &a5	97 1						ql w
LesO	2S6 1	2462O79	24y6O2y	2MSyOy9	249yOMM	SOy9	l l b

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LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:cqduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3n5Uel 1	3n5Uel 2	3n5Uel 7	cRvC3n5qC	3n5qUpt	F5&w
LesO	2S0 1	2479C1S	2490C6y	2462C40	2462C06	1CS1	I I b
LesO	2S9 1	24M5CSS	2497CS1	24y40My	240MC96	SCy7	I I b
LA%Aum	6 1				99		E
g sv5ewAum	24 2	2M6000C60	2M0004Cy1	26S292C6S	2M9209C7y	SC0S	I I b
g s5vs5ewe	MM2	M19SC2S	M294CyS	M19yC64	M219C2M	1C11	I I b
g nPbOe5um	y4 1	400yC6y	4y06C26	4y70C69	49y0C99	2C17	I I b
g nPbOe5um	yM1	49MyC2S	4yy9C42	49y6Cy9	4y19C2S	1C46	I I b
g nPbOe5um	y6 1	409SC69	M5ySC7y	497SC66	4ySS0M9	7C7y	I I b
g nPbOe5um	y0 1	4096C74	M5000M2	49MM0C6	4yS60M4	7C1S	I I b
g nPbOe5um	y9 1	409S0M0	4y41CSM	4y72C6y	4994C00	1C9M	I I b
NenOhmAum	1M5 1						ql w
NenOhmAum	1M5 2						ql w
NAqfeP	6S 2	4y2Cyy	M57C06	4yyC74	4y9C67	1CS0	I I b
8%nwl %nruw	71 2	yy64C49	1S140CSM	y9yyCMy	1SSS7C01	1C29	I I b
8n&swwAum	7y 2	12yM14C7S	17S2M5CSS	129297C19	12y74yC16	SC00	I I b
U%nOAum	1S7 1				y7		E
U%nOAum	1S7 2				96		E
pqs5OAum	4M1				y6		E
pqs5OAum	4M2				94		E
pere5Aum	92 1	4M90My	407C47	404C41	469C91	1C9y	I I b
pere5Aum	00 2	M67C19	M4yCy2	M7yCM4	MM5C99	2C1M	I I b
pere5Aum	09 2	M16C19	M24C4y	M2SC1S	M2SC26	SC9S	I I b
pAAqn5	29 1	M51C27	M12C0M	M10C05	M1SC4y	1C64	I I b
pARer	1S0 1	466CSM	4yM0M	407CS4	409C21	7C22	I I b
pARer	1Sy 1	407CS6	494C14	490C42	491C04	1C06	I I b
pnOAum	27 2	2Myy72C7M	26202SC19	2699120C7	267921C6y	1C02	I I b
p&n5&Aum	96 1	12102CS2	1224M67	12241C2y	1221yC6M	SC74	I I b
p&n5&Aum	99 1	11y4yCyy	1212yC42	12724C07	12174C6M	1C04	I I b
puRVr	74 1	90020My	y269C20	yMM2CS9	y1y0C6M	4C2y	I I b
i erbAum	1My 1				1S7		E
i erbAum	1My 2				y4		E
i %sRAum	2S7 1	M5MCy6	M12C01	M12CyS	M1SC02	SC00	I I b
i %sRAum	2SM1	4y1CSS	M51CS1	M5SC21	4y0C4S	1C12	I I b
i A5	119 1	499C01	M52Cy1	49yCy0	4y7C96	1CMy	I I b
i A&5Aum	40 1	4940Cyy	4y1yC17	4y41C27	4yS2C09	SCyy	I I b
Frs5Aum	279 1	492C0M	49M0M	4y00C05	499C6S	1C6S	I I b

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Inst Id :P8

LB:Number:J	LB1264S0	o l ers&ar:J	aswl sP
Lsb:psml Re:D :J	3 3 - S26	D5w&um5e&Nsme:J	8 9
3 Re5&psml Re:D :J	3 3 - S26	t Ra&n5:. sq&ar:J	1
t s&e:T:i Ame:c qduAeO.J	2S27 S0 12:19J44JS1	t s&s. Re:Nsme:J	12S3 3 - CO

8srsme&er	g sww	3 n5Uel 1	3 n5Uel 2	3 n5Uel 7	cRvC3 n5qC	3 n5qUpt	F 5A&w
- s5sOAum	M1 2	M21Cy0	M22C24	M10C47	M2SC3M	SC3M2	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	9y 1				y9		E
Y&&Aum	9y 2				96		E
ZA5q	66 2	4912C7M	4y11Cy4	4y12CSM	4909CC9	1C19	l l b
ZAqn5Aum	yS 1	40SC64	4y7C67	494C76	492C99	2C4S	l l b
ZAqn5Aum	y1 1	4MMC7M	40MCCS	466C61	46MC9y	2C1y	l l b

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Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
AlNu iniNu	2072	- GSS	1C06	2C42	2G M	2yC0	ppm
Antiu onh	12171	SC1y	SC1M	SC2-	SC1M	21C14	ppm
Aesbnic	0y72	SGS6	SGS4	SGSM	SGS6	- 6C4M	ppm
BaeiNu	1- y71	SGS:	SGS:	SGSS	SGS6	: 1G 1	ppm
BaeiNu	1- 071	SC1S	SGS0	SGS2	SGS6	62GS2	ppm
BbehlliNu	M71	SGS0	SGS6	SGS4	SGS6	24C04	ppm
Bisu Nt%	2SM71				1Sy		E
Bisu Nt%	2SM72				M		E
Beou inb	: 171						cps
3 adu iNu	1S: 71	7SGS6	SC2M	7SGS2	SGS0	204C06	ppm
3 adu iNu	1S671	7yC :	76GS1	72C06	74C0y		ppm
3 adu iNu	11171	SGSS	SGS1	SGS4	SGS2	1S: C -	ppm
3 alciNu	4- 71	0C0:	0C1 :	2C40	yC 1	ySC1S	ppm
3 alciNu	4471	yyG S	y- C 4	y- C0y	y4G S	1G6S	ppm
3 aemon	1271						cps
3 aemon	1272						cps
3 %oeinb	- y71						cps
3 %oeinb	- y72						cps
3 %eou iNu	y272	SGS6	SGS6	SGS:	SGS0	2SG64	ppm
3 omalt	yM72	SGS-	SGS2	SGS2	SGS2	24GSy	ppm
3 oppbe	6- 72	SC0M	SC y	SC0y	SC 6	1- C 1	ppm
DhspeosiNu	1y671						cps
DhspeosiNu	1y672						cps
5 emiNu	16471						cps
5 emiNu	16472						cps
GadoliniNu	16S71						cps
GadoliniNu	16S72						cps
Holu iNu	16y71				1Sy		E
Holu iNu	16y72				M		E
IndiNu	11y71				1S4		E
IndiNu	11y72				M-		E
Ieon	y472	: Gy0	0GS2	yG 2	6C0M	2- G M	ppm
Ieon	y672	0C10	6C01	4C4y	6C1	2- C 1	ppm
Ieon	y072	1SGy:	6Gy2	6C0My	: GS2	20C -	ppm
Kehpton	: - 71						cps
Lbad	2S671	SC1M	SC1 :	SC14	SC10	1yC2S	ppm

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
Lbad	2S071	SC1M	SC1:	SC1y	SC10	12G M	ppm
Lbad	2S: 71	SC2S	SC1:	SC14	SC10	10C4S	ppm
Lit%iNu	671				M-		E
g avnbsiNu	2472	21C0-	11C12	: CS6	1- C64	y2C6-	ppm
g anvanbsb	yy72	SC1M	SG 2	SC21	SC24	2: G -	ppm
g olhmdbnNu	M471	SC4M	SC4-	SC2M	SC4S	24Cy	ppm
g olhmdbnNu	My71	SG :	SC42	SC2M	SG 6	10C00	ppm
g olhmdbnNu	M671	SC46	SG y	SC26	SG 6	20Cy	ppm
g olhmdbnNu	M071	SC46	SG 0	SC24	SG 6	- SC0S	ppm
g olhmdbnNu	M 71	SC4y	SG 6	SC26	SG 6	26Cyy	ppm
8 bodhu iNu	1yS71						cps
8 bodhu iNu	1yS72						cps
8 ickbl	6S72	SCS0	SC1S	SCS0	SCS:	22G M	ppm
P%osp%oeNs	- 172	70MC4-	700Cy2	741C62	766C1M		ppm
PotassiNu	- M72	1S6C4-	6: C6-	y0C1-	00C4S	- - G -	ppm
U%odiNu	1S- 71				1S-		E
U%odiNu	1S- 72				M0		E
r candiNu	4y71				1S1		E
r candiNu	4y72				: :		E
r blbniNu	: 271	SCS-	7SG S	7SC16	7SC14		ppm
r blbniNu	0072	7SG :	7SG :	7SG :	7SG :		ppm
r blbniNu	0: 72	SC06	7SC1M	SC0M6	SCy1	121CSy	ppm
r ilicon	2: 71	SC2:	SC21	SC2S	SC2-	1MCS-	ppm
r ilRbe	1S071	SCS4	SCS4	SCS-	SCS4	1MC4:	ppm
r ilRbe	1SM71	SCS-	SCSy	SCS1	SCS-	y: C21	ppm
r odiNu	2- 72	2S0Cy2	1yyG -	1- 4C4-	16yC06	22C01	ppm
r teontiNu	: 671	SCy1	SC4S	SC14	SG y	y- CyM	ppm
r teontiNu	: : 71	SCy1	SG y	SC1:	SG 4	40C00	ppm
r NifNe	- 471	70- yC41	7- 1yC2M	72M6Cy4	744MCS:		ppm
TbemiNu	1yM71				1Sy		E
TbemiNu	1yM72				M6		E
T%alliNu	2S- 71	SC21	SC1:	SC16	SC1:	1- C04	ppm
T%alliNu	2Sy71	SC21	SC1:	SC10	SC1M	MG 1	ppm
Tin	11: 71	7SCS0	7SCS-	7SCS1	7SCS4		ppm
TitaniNu	4071	SC1-	SC12	SCSy	SC1S	42C22	ppm
F eaniNu	2- : 71	SCS2	SCS1	SCS1	SCS1	16G M	ppm

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LB 8 Nu mbe9	LB1264S0	Opbeatoe9	Jaswal
Lamr au plb ID 9	3 3 BS26	InsteNu nbt 8 au b 9	P:
3 libnt r au plb ID 9	3 3 BS26	DilNtion . actoe9	1
Datb & Tiu b AcqNiebd 9	2S2- 7S0712 1: 94: 9S1	Data. ilb 8 au b 9	1213 3 B5 Gl

Paeau btbe	g ass	3 onUbp1	3 onUbp2	3 onUbp-	ARvC3 oncC	3 oncUr D	F nits
VanadiNu	y172	SGS2	SGS2	SGS1	SGS2	- : G 6	ppm
YttbemiNu	10271						cps
YttbemiNu	10272						cps
YttbemiNu	10671						cps
YttbemiNu	10672						cps
YtteiNu	: M71				1S-		E
YtteiNu	: M72				M2		E
Zinc	6672	SG62	SGyS	SG 0	SGyS	2y0M2	ppm
ZieconiNu	MS71	SGS1	SGSS	SGSS	SGS1	M4 G2-	ppm
ZieconiNu	M171	SGS2	7SGS1	7SGS1	SGSS	166- 2G1 :	ppm

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 04	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
cRmAAum	20 2	2J0- - F77	240- 4FJ2	27J21F44	26- 2hFhJ	0F4J	l l b
cn&Amon%	121 1	SF6-	SF0S	SF01	SF67	6F72	l l b
crwenAq	0J 2	6F- 1	6F24	0F66	6F04	11F70	l l b
BsrAum	1- J 1	J17F- 7	JS1F12	4h- F- h	JS4F2h	2FJ4	l l b
BsrAum	1- 0 1	J2hF- h	JShF6h	JSJFS-	J14F0S	2FJ1	l l b
Ber%BAum	h 1	1FhJ	1F7h	1F7-	1F7h	- F- h	l l b
BAumu&E	2Sh 1				1S6		G
BAumu&E	2Sh 2				114		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1F0h	1FJS	1F- J	1FJJ	14F- 4	l l b
RsOmAum	1S6 1	SF20	SFJS	SFh4	SFJ0		l l b
RsOmAum	111 1	SFhJ	1FS6	SFhJ	SFhh	6FJh	l l b
RsRqAum	4- 1	17hhJFhJ	1724- F47	171ShF- 7	1744hF6S	2FJh	l l b
RsRqAum	44 1	1h- hSFhJ	1h2SJF7-	1h22SF1J	1h202F- 1	SFJ-	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	16F- 2	1JF1J	10F2h	16F2J	6F6S	l l b
RobsR&	Jh 2	1SF74	1SF1J	11F6-	1SF77	6F7S	l l b
Rol l er	6- 2	- 2F- 0	2hF02	- - F4S	- 1F7-	JFh6	l l b
t %w l rowAum	1J6 1						ql w
t %w l rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFhAum	16J 1				1S7		G
y oFhAum	16J 2				116		G
DrOAum	11J 1				1SJ		G
DrOAum	11J 2				1S0		G
Don	J4 2	272h6Fh0	266h1FhS	- S- 71F02	274J6F76	6FJS	l l b
Don	J6 2	2700hFJ2	20204FJS	- S6h6F7h	27h16Fh0	JFh-	l l b
Don	J0 2	2667JF21	24070F67	27620F77	260SSF2J	0F1h	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	42F16	41F7J	41Fh-	41Fh7	SF- h	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 04	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	- hF61	- hF76	- hF7h	- hF0h	SF- h	l l b
LesO	2S7 1	41FSh	4SF64	4SF71	4SF74	SFJ6	l l b
LA&EAum	6 1				h6		G
MsgnewAum	24 2	JSh7F60	4717F62	JJ6hF10	J162F16	0F- J	l l b
Msngsnewe	JJ 2	6S2F04	J0- F42	6J- F- 0	6ShF74	6F6-	l l b
MoP%bOenum	h4 1	hF71	hF17	hF- 4	hF44	- F46	l l b
MoP%bOenum	hJ 1	1F42	1F4S	1F4J	1F42	1F0-	l l b
MoP%bOenum	h6 1	2F- 6	2F21	2F17	2F2J	4F- h	l l b
MoP%bOenum	h0 1	1F- h	1F20	1F2h	1F- 2	4F6S	l l b
MoP%bOenum	h7 1	1F4J	1F42	1F- h	1F42	2F1-	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1- FS-	12FJ6	1- F64	1- FS7	4F1J	l l b
8 EowI Eoruw	- 1 2	1602FhJ	16J6FJ6	2SS1FS2	1006F74	1SFh4	l l b
8 o&swwAum	- h 2	6SS6Fh0	J06JF06	6J02F70	611JF2S	6F00	l l b
5 EoOAum	1S- 1				1S-		G
5 EoOAum	1S- 2				111		G
pqsnOAum	4J 1				1S2		G
pqsnOAum	4J 2				1S4		G
pe?enAum	72 1	SFhh	SFhJ	1FS4	SFhh	4F- -	l l b
pe?enAum	00 2	24F20	- SF00	- 2Fh-	2hF- 2	1JF- 0	l l b
pe?enAum	07 2	0FS0	4F6J	0F42	6F- 7	2- F64	l l b
pAAqon	27 1	14hF11	14- FJ6	14SFJh	144F42	2Fhh	l l b
pA?er	1S0 1	SF24	SF21	SF22	SF22	0F2-	l l b
pA?er	1Sh 1	SF2-	SF2-	SF21	SF2-	JF77	l l b
poOAum	2- 2	J4SF12	4- 7F27	J14F02	4h0F01	1SF6J	l l b
p&on&Aum	76 1	J- 0FJ6	J14F- 1	J12F6-	J21FJS	2F60	l l b
p&on&Aum	77 1	JJJF7-	J4JF- S	J- 2F44	J44FJ2	2F1J	l l b
pu?ur	- 4 1	4JhF- S	17JF10	J26F20	74FSJ		l l b
i erbAum	1Jh 1				1S0		G
i erbAum	1Jh 2				11-		G
i EsPAum	2S- 1	SFJ7	SFJ7	SF61	SFJh	2Fh0	l l b
i EsPAum	2SJ 1	SFJ6	SFJ0	SFJ4	SFJ6	2F47	l l b
i A	117 1	1F4J	1F- 0	1F4h	1F44	4F- J	l l b
i A&snAum	40 1	hSF62	7JFJ4	74Fhh	70FSJ	- FJ0	l l b
UrsnAum	2- 7 1	2F- J	2F- 2	2F- 6	2F- 4	SF74	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 2S	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 04	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2S2- S0 12:179J19SJ	t s&s. Ae:Nsme:9	122c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	J1FJ4	47F70	JJF42	J1Fh4	6F- 4	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S7		G
Y&&Aum	7h 2				121		G
ZAnq	66 2	2S4FJS	1h2F16	216F- h	2S4F- J	JFh-	l l b
ZAqonAum	hS 1	4Fh-	4F0J	4F6S	4F06	- F4h	l l b
ZAqonAum	h1 1	4F7S	4F4h	4F07	4F6h	- F60	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0J	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	1J670F07	10J4hF44	10JS1F1J	16h12F0h	6F20	l l b
cn&mon%	121 1	SF44	SFJ-	SF61	SFJ2	1JF76	l l b
crwenAq	0J 2	7F1S	7Fh-	7F-2	7F4J	JF12	l l b
BsrAum	1- J 1	- J0F16	- 02FJ7	- 66Fh2	- 6JFJ6	2F1-	l l b
BsrAum	1- 0 1	- 66F21	- 0- F1S	- 01Fh6	- 0SF42	1FSS	l l b
Ber%BAum	h 1	1FJ1	1F61	1F4h	1FJ4	4F17	l l b
BAumu&E	2Sh 1				1S7		G
BAumu&E	2Sh 2				1S7		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1FS7	SF72	1F2S	1FS-	17F4S	l l b
RsOmAum	1S6 1	1F20	2F61	2F0-	2F2S		l l b
RsOmAum	111 1	SFJ-	SFJ4	SF47	SFJ2	6FS4	l l b
RsRqAum	4- 1	hJ27F1S	hhh7F1h	h6- SF67	h017Fhh	2FJ4	l l b
RsRqAum	44 1	1S22hF26	1S2h1F7h	1SS77F02	1S2S- F2h	1FS2	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	1JFJh	10F4S	10F1-	16F01	JF74	l l b
RobsR&	Jh 2	7F71	hFh2	hF04	hF4h	6F27	l l b
Rol l er	6- 2	22FS0	2JFS-	2JFS2	24FS4	0F11	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFhAum	16S 1						ql w
HsOoFhAum	16S 2						ql w
y oFmAum	16J 1				1Sh		G
y oFmAum	16J 2				112		G
DrOAum	11J 1				1S7		G
DrOAum	11J 2				1SJ		G
Don	J4 2	- 1471F11	- 4h66F1S	- J021F76	- 4SJ6F-6	6F64	l l b
Don	J6 2	- Sh- 2FJ7	- 47- - FhS	- 46S6F16	- - 4J0FJJ	6FJ4	l l b
Don	J0 2	2hS20F26	- 2241F10	- 2204F70	- 1171F1S	JFh7	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	- 4Fhh	- JF0J	- JF0-	- JF4h	1F22	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 0J	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
LesO	2S0 1	- - F17	- - Fh7	- - F72	- - F66	1F2J	l l b
LesO	2S7 1	- 4F2h	- 4Fh0	- 4F02	- 4F66	SFh7	l l b
LAEAum	6 1				h0		G
MsgnewAum	24 2	- 0h6FSh	42J4F- S	41h7F4h	4S72Fh6	6F12	l l b
Msngsnewe	JJ 2	62SF16	67hF0-	6h6F1h	667F6h	6F- S	l l b
MoP%bOenum	h4 1	JFJS	JF0J	JF00	JF67	2F67	l l b
MoP%bOenum	hJ 1	1F- 1	1F44	1F- S	1F- J	JFhJ	l l b
MoP%bOenum	h6 1	1F74	1Fh1	1F74	1F76	2F1J	l l b
MoP%bOenum	h0 1	1F47	1F- 0	1F4J	1F4-	4FS1	l l b
MoP%bOenum	h7 1	1F44	1F- S	1F- 7	1F- 0	4F7h	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1- Fh0	1JF7J	1JFJ4	1JF12	6F64	l l b
8 EowI Eoruw	- 1 2	1- - 6F- -	1J2JF7J	14JSF2S	14- 0F46	6F64	l l b
8 o&swwAum	- h 2	4711FS2	J- - 0F74	J- 2hF21	J 1JhF- 6	JF7J	l l b
5 EoOAum	1S- 1				1S0		G
5 EoOAum	1S- 2				112		G
pqsnOAum	4J 1				1S6		G
pqsnOAum	4J 2				1S2		G
pe?enAum	72 1	1FS1	1FS7	1FS4	1FS4	- F02	l l b
pe?enAum	00 2	- hF76	- JF07	- 7F20	- 0Fh0	JF42	l l b
pe?enAum	07 2	0F2-	6F6h	0F70	0F26	7F16	l l b
pAqon	27 1	1- hF4-	142F60	14SF7h	141FSS	1F1J	l l b
pA?er	1S0 1	SF14	SF1-	SF1J	SF14	6F01	l l b
pA?er	1Sh 1	SF1-	SF14	SF14	SF14	6F2J	l l b
poOAum	2- 2	12JF24	14JF76	141F- h	1- 0FJS	0F7h	l l b
p&on&Aum	76 1	211F76	211F16	21JF1S	212F01	SFhh	l l b
p&on&Aum	77 1	224F6J	226F21	22hF76	226Fh1	1F17	l l b
pu?ur	- 4 1	1S2hF67	hShF- 6	1S40F40	hhJFJS		l l b
i erbAum	1Jh 1				1Sh		G
i erbAum	1Jh 2				111		G
i EsPAum	2S- 1	SF4S	SF4S	SF4J	SF42	6Fhh	l l b
i EsPAum	2SJ 1	SF- h	SF4J	SF4-	SF42	0F6h	l l b
i An	117 1	1F44	1FJ4	1FJ7	1FJ2	4F0S	l l b
i A&snAum	40 1	22hF4-	2- 7Fh2	2- - F2h	2- - F77	2FS4	l l b
UrsnAum	2- 7 1	1F0h	1F07	1F71	1F0h	SF0S	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 21	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 0J	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179J49SS	t s&s. Ae:Nsme:9	12- c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	JSF46	JJFJ1	JJF77	J- FhJ	JF61	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				11-		G
Y&&Aum	7h 2				12S		G
ZAnq	66 2	14hFSS	16JF20	160F02	16SF66	6F- -	l l b
ZAqonAum	hS 1	2FJ7	2FJ-	2F6-	2FJ7	1Fh7	l l b
ZAqonAum	h1 1	2FJ2	2FJh	2F44	2FJ2	- FS1	l l b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 06	t AR&on:. sq&or:9	1
t s&:T:i Ame:cqduAeO.9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	2J- h6F4J	24741FJ0	2Jh7JFSS	2J4S0F60	2F2J	l l b
cn&mon%	121 1	SF- 6	SFJ1	SF41	SF4-	10F2S	l l b
crwenAq	0J 2	0F22	0F2J	0F- 2	0F26	SF0-	l l b
BsrAum	1- J 1	- 0- F2J	477F71	- 72FJh	414F77	1JF40	l l b
BsrAum	1- 0 1	- 67FhS	4hhF00	- 76F04	417F40	16Fh6	l l b
Ber%BAum	h 1	1F77	2F4J	2FS2	2F12	14F26	l l b
BAumu&E	2Sh 1				1S1		G
BAumu&E	2Sh 2				1S6		G
BromAne	71 1						ql w
RsOmAum	1S7 1	1FS0	1FJJ	1F0S	1F44	22Fh0	l l b
RsOmAum	1S6 1	1F24	2F04	1FS4	SF7J		l l b
RsOmAum	111 1	SF7J	1FS4	SF0S	SF76	1hF4-	l l b
RsRqAum	4- 1	16114F0S	2S0- JF4S	16262FS6	100S4FS6	14F7-	l l b
RsRqAum	44 1	16h1JFJh	21161F0S	10140F4S	174S7F2-	12Fh0	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- J 1						ql w
REFrAne	- J 2						ql w
REromAum	J2 2	16F06	16FSS	16F60	16F47	2FJ-	l l b
RobsR&	Jh 2	14F24	1- F0J	14FJS	14F16	2F60	l l b
Rol l er	6- 2	- - F1S	- 2F24	- 2F7-	- 2F02	1F- J	l l b
t %wl rowAum	1J6 1						ql w
t %wl rowAum	1J6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFnAum	16S 1						ql w
HsOoFnAum	16S 2						ql w
y oFnAum	16J 1				1S2		G
y oFnAum	16J 2				1S6		G
DnOAum	11J 1				1S1		G
DnOAum	11J 2				1S2		G
Don	J4 2	- 2146F20	- S10hF10	- 246SF4J	- 1JhJF- S	- Fh1	l l b
Don	J6 2	- 112hF11	- S470F0h	- 1671F61	- 1ShhFJS	1Fh2	l l b
Don	J0 2	27h02F41	27- hhF1-	2h274F4S	2777JF- 1	1FJJ	l l b
Kr%l &on	7- 1						ql w
LesO	2S6 1	- 4F47	4- F42	- - F7-	- 0F24	14F- h	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RAen&psml Re:D :9	My S. 06	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	2S0 1	- - F1S	41F04	- 1Fh7	- JF61	14Fhh	l l b
LesO	2S7 1	- - F22	42F46	- - FSS	- 6F2-	14Fh1	l l b
LAEAum	6 1				h-		G
MsgnewAum	24 2	J- 70F20	J21- F1-	JJ16FSS	J- 02F1-	2F7-	l l b
Msngsnewe	JJ 2	762F61	74- F70	76JFS1	7J0F16	1F- J	l l b
MoP%bOenum	h4 1	7F01	11F4S	hF- 1	hF71	14F41	l l b
MoP%bOenum	hJ 1	SFh6	1F- 2	1FSS	1FSh	10F71	l l b
MoP%bOenum	h6 1	1F00	2F4-	1Fh7	2FS6	16FJS	l l b
MoP%bOenum	h0 1	SFh-	1F- 6	1FS0	1F12	1hF6h	l l b
MoP%bOenum	h7 1	1FSS	1F- S	1FS7	1F1-	14FS2	l l b
NeoO%mAum	1JS 1						ql w
NeoO%mAum	1JS 2						ql w
NAqkeP	6S 2	1JFS0	1JF17	14Fh4	1JFS6	SF71	l l b
8EowI Eoruw	- 1 2	h6- F11	120JFJ0	116hF74	11- 6F10	1- Fhh	l l b
8o&swwAum	- h 2	4024Fh6	46S0F22	4726F1S	401hF42	2F- 2	l l b
5EoOAum	1S- 1				1S1		G
5EoOAum	1S- 2				1S6		G
pqsnOAum	4J 1				1S2		G
pqsnOAum	4J 2				h7		G
pefenAum	72 1	SFJ7	1F2-	SF0J	SF76	- hF61	l l b
pefenAum	00 2	2JFSS	- hF6h	2SF7-	27FJ1	- 4F04	l l b
pefenAum	07 2	0F66	6F07	0F- 4	0F26	6F1J	l l b
pAqon	27 1	1J6Fh2	1hhF27	162FS-	102F04	1- F- 7	l l b
pAer	1S0 1	SF16	SF24	SF22	SF21	17Fh4	l l b
pAer	1Sh 1	SF2S	SF26	SF10	SF21	2SF26	l l b
poOAum	2- 2	6J0F- 4	6JhF76	6h2F47	66hFhS	2Fh-	l l b
p&on&Aum	76 1	- 0- F4h	47JF7-	- 7SFJ0	41- F- S	1JF22	l l b
p&on&Aum	77 1	- h6FSS	JShF- J	- hhFS6	4- 4F7S	14F7J	l l b
pufur	- 4 1	16- SF06	hJJFJ7	14- 1F01	0S2F- S		l l b
i erbAum	1Jh 1				1S4		G
i erbAum	1Jh 2				1SJ		G
i EsPAum	2S- 1	SF4-	SFJ0	SF41	SF40	17F04	l l b
i EsPAum	2SJ 1	SF44	SFJ4	SF46	SF47	1SFhS	l l b
i An	117 1	1F7-	2F4J	1F70	2FSJ	16F0h	l l b
i A&snAum	40 1	64F62	07F41	6- F11	67F02	12F20	l l b
UrsnAum	2- 7 1	2F21	2F7h	2F2S	2F4-	16F- 2	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 22	Dw&umne&Nsme:9	8 7
RFen&psml Re:D :9	My S. 06	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179J69J7	t s&s. Ae:Nsme:9	124c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	J1 2	6SF61	6SFh6	6- F-4	61F64	2F41	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	7h 1				1S0		G
Y&&Aum	7h 2				11-		G
ZAnq	66 2	16SF07	1J6FSJ	162FJJ	1JhF0h	2F1S	l l b
ZAqonAum	hS 1	4FJ0	6FS6	4F0-	JF12	16FS-	l l b
ZAqonAum	h1 1	4FJS	6F1S	4FJ7	JFS6	10F7-	l l b

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LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 66BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12-CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
cRmA5Aum	20:2	7F72	1F28	1F 0	2F1	40F26	l l b
c5&Amn5h	121:1	SFS2	SFS4	SFS7	SFS7	22F 0	l l b
crwe5Aq	0-:2	SFS4	:SFS1	SFS2	SFS2	118F71	l l b
BsrAum	17-:1	SF1-	SF11	SFS8	SF11	71F00	l l b
BsrAum	170:1	SF11	SFS8	SFS-	SFS8	41FS4	l l b
BerhFAum	:1	SFS7	SFS4	SFS4	SFS7	16F78	l l b
BAumu&%	2S :1				112		E
BAumu&%	2S :2				1S8		E
BrnmA5e	81:1						ql w
CsOmAum	1S8:1	SF14	SFS4	SFS1	SFS0	1S4F- -	l l b
CsOmAum	1S6:1	:6F10	:6F12	:6F0	:6F76		l l b
CsOmAum	111:1	:SFS7	:SFS7	:SFS4	:SFS4		l l b
CsRqAum	47:1	6F27	0F02	- F67	6F- 7	16F- 4	l l b
CsRqAum	44:1	71F80	76F 4	72F47	77F0-	8F27	l l b
Csrbn5	12:1						ql w
Csrbn5	12:2						ql w
C%nrA5e	7-:1						ql w
C%nrA5e	7-:2						ql w
C%nmAum	-2:2	SF17	SF12	SFSS	SFS8	8-F20	l l b
CnbsR&	- :2	SFS1	SFS1	SFSS	SFS1	41F2-	l l b
CnI I er	67:2	SF- 6	SF76	SF20	SF4S	70F 2	l l b
t hwI rnwAum	1-6:1						ql w
t hwI rnwAum	1-6:2						ql w
. rbAum	164:1						ql w
. rbAum	164:2						ql w
GsOnF5Aum	16S:1						ql w
GsOnF5Aum	16S:2						ql w
HnRmAum	16-:1				112		E
HnRmAum	16-:2				1S8		E
D5OAum	11-:1				111		E
D5OAum	11-:2				1S4		E
Dn5	-4:2	-F07	1F 6	2F- 8	7F42	- F1S	l l b
Dn5	-6:2	-F0-	2F22	2F- 4	7F- S	- - F61	l l b
Dn5	-0:2	-F82	7FS7	1F80	7F- 0	-6F86	l l b
Krhl &n5	87:1						ql w
LesO	2S6:1	SF12	SF17	SF12	SF12	2F48	l l b

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On:7/14/2023 8:48:56 AM
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LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1-7 66BL	D5w&um5e&Nsme9J	38
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12-CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
LesO	2S0:1	SF5	SF17	SF1S	SF11	18F44	I I b
LesO	2S8:1	SF11	SF17	SF11	SF12	8F64	I I b
LA&%Aum	6:1				0		E
y sM5ewAum	24:2	1SF 4	7F48	7F74	-F 2	07F47	I I b
y s5Ms5ewe	- - :2	SF71	SF5	SF17	SF18	60F71	I I b
y nPbOe5um	4:1	SF17	SF1S	SF5	SF11	1 F62	I I b
y nPbOe5um	- :1	SF1S	SF17	SF50	SF1S	71FSS	I I b
y nPbOe5um	6:1	SF11	SF17	SF11	SF12	8FS8	I I b
y nPbOe5um	0:1	SF5	SF12	SF58	SF1S	27F48	I I b
y nPbOe5um	8:1	SF12	SF12	SF56	SF1S	71F02	I I b
NenOhmAum	1-S:1						ql w
NenOhmAum	1-S:2						ql w
NAqkeP	6S:2	SF51	SF57	SF57	SF52	46F 2	I I b
3%nwl %nruw	71:2	:07FSS	:-4F8	:81F14	:6 F68		I I b
3n&swwAum	7 :2	16F0S	1SF-	17F48	17F01	21FSS	I I b
v %nOAum	1S7:1				112		E
v %nOAum	1S7:2				1S8		E
pqs5OAum	4- :1				11S		E
pqs5OAum	4- :2				1SS		E
pefe5Aum	82:1	:SF-1	:SF22	:SF71	:SF7-		I I b
pefe5Aum	00:2	:SF78	:SF78	:SF78	:SF78		I I b
pefe5Aum	08:2	SF5-	:SF07	SF1-	:SF18		I I b
pAqn5	28:1	:SF27	:SF22	:SF20	:SF24		I I b
pAger	1S0:1	SF52	SF51	SF51	SF51	2 F04	I I b
pAger	1S :1	SF51	SF51	SF51	SF51	17F8S	I I b
pnOAum	27:2	24F87	16F-S	1 F7	2SF24	2SF 1	I I b
p&n5&Aum	86:1	SF20	SF20	SF76	SF7S	16F84	I I b
p&n5&Aum	88:1	SF72	SF67	SF1	SF78	6SF4	I I b
pufur	74:1	:2-0SF S	:2277F-0	:2-S4F7S	:2476F26		I I b
i erbAum	1- :1				111		E
i erbAum	1- :2				1S0		E
i %sPAum	2S7:1	SF56	SF58	SF54	SF56	28F87	I I b
i %sPAum	2S-:1	SF50	SF56	SF56	SF56	17F0S	I I b
i A5	118:1	:SF57	SF5S	:SF52	:SF52		I I b
i A&5Aum	40:1	SF56	SF12	SF16	SF11	4-F68	I I b
Rrs5Aum	278:1	SF51	SF51	SF5S	SF51	4SF81	I I b

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On:7/14/2023 8:48:56 AM
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LB9Number9J	LB1264S0	o l ers&ar9J	aswl sP
Lsb9psml Re9D 9J9	3B1- 7 66BL	D5w&um5e&Nsme9J	3 8
CFe5&psml Re9D 9J9	3Bp 66	t A&n59Usq&ar9J	1
t s&e9T9 Ame9cqduAeC9J	2S27:S0:1291 JS1J22	t s&sUAe9Nsme9J	12- CCB. FO

3srsme&er	y sww	Cn5v el 1	Cn5v el 2	Cn5v el 7	cgMF9Cn5qF	Cn5qv pt	R5A&w
Vs5sOAum	- 1:2	SF5S7	SF5SS	SF5S1	SF5S1	110F62	l l b
Y&erbAum	102:1						ql w
Y&erbAum	102:2						ql w
Y&erbAum	106:1						ql w
Y&erbAum	106:2						ql w
Y&&Aum	8 :1				111		E
Y&&Aum	8 :2				1S4		E
ZA5q	66:2	SF2S	SF5S8	SF1	SF1-	41F- 8	l l b
ZAqn5Aum	S:1	SF5SS	:SF5S1	SF5SS	SF5SS		l l b
ZAqn5Aum	1:1	:SF5S2	SF5S2	SF5S1	SF5S1	4SSF24	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw&apJa	swl Pw8
LweJ wb l &JD JaJ	3B1-7 66B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l &JD JaJ	LC: 66	t A8m8A5JJwq&apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&WJA8 Juwb r Ja	126LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
c8mb A5Amb	2092	70F 2	77F7N	7NF60	76F6-	0FN1	l l e
c5&b n5h	12191	7F10	7F2	7F1-	7F2S	2F42	l l e
cpl r 5Aq	0-92	2F1S	1F-	1F 4	1FN0	17F04	l l e
BwpAmb	17-91	1-F-4	1-F07	16F12	1-FNS	1FNN	l l e
BwpAmb	17091	1-FN-	16FS7	1-F---	1-FN1	1F-2	l l e
Br ph8Amb	91	1F-0	1F6N	1F66	1F64	7F-6	l l e
BAb m8%	2S 91				1S-		E
BAb m8%	2S 92				1S4		E
Bpmb A5r	N191						ql l
CwCb Amb	1SN91	1FN-	2F1S	1F7N	1F0N	2SF76	l l e
CwCb Amb	1S691	92FN2	94F70	94F0S	97F 6		l l e
CwCb Amb	11191	1F6	1F60	1FN4	1F07	-F-S	l l e
Cw&pAmb	4791	026F21	026F0-	02NF-7	020F16	SF10	l l e
Cw&pAmb	4491	04-F02	0-7FNN	04 F 6	04 FN-	SF-4	l l e
Cwpen5	1291						ql l
Cwpen5	1292						ql l
C%&mp5r	7-91						ql l
C%&mp5r	7-92						ql l
C%pmb Amb	-292	7F-7	7F1	7F64	7F46	6FN7	l l e
Cnew&&	- 92	1F 7	1F02	1FNN	1FN4	6FS1	l l e
CnI l r p	6792	7F N	7F06	4FSS	7F 1	7F42	l l e
t hl l pnl Amb	1-691						ql l
t hl l pnl Amb	1-692						ql l
. peAmb	16491						ql l
. peAmb	16492						ql l
GwOn8&5Amb	16S91						ql l
GwOn8&5Amb	16S92						ql l
Hn8b Amb	16-91				1SN		E
Hn8b Amb	16-92				1S7		E
D5OAmb	11-91				1S0		E
D5OAmb	11-92						E
Dpn5	-492	707F-S	741F2-	7-4F	7-6F-N	4F-4	l l e
Dpn5	-692	767FS2	771F--	7-1F4	74NF6	4F-0	l l e
Dpn5	-092	7- F64	72SF01	741F1N	74SF-1	-F02	l l e
Kphl &a5	N791						ql l
LrwO	2S691	1F40	1F-	1F-4	1F-7	4FS	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 66B:	D5l &pmb 5r &uwb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 66	t A8m8A5JUwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&WUA8 Juwb r Ja	126LC: . FO

3wpwb r &p	y wl	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	cgMFCn5qF	Cn5qv : t	R5A&
Lr wO	2S091	1F67	1F-	1F61	1F61	1F10	l l e
Lr wO	2SN91	1F-4	1F-0	1F-4	1F--	1F1	l l e
LA&%Amb	691				4		E
y wW5r l Amb	2492	26F0N	N-1F4	N 2F41	N SF7N	4F21	l l e
y w5Mw5r l r	- - 92	1F07	1F6N	1F0-	1F02	2FS7	l l e
y n8neOr 5mb	491	NF76	F24	NFN7	NFN1	4F N	l l e
y n8neOr 5mb	- 91	0F2S	0F72	0F46	0F77	1FN1	l l e
y n8neOr 5mb	691	0F47	0F77	0F66	0F40	2F26	l l e
y n8neOr 5mb	091	0F20	0F01	0F-4	0F-1	2F 7	l l e
y n8neOr 5mb	N91	0F-6	0F2-	0F46	0F42	2FSN	l l e
u r nOhb Amb	1-S91						q l l
u r nOhb Amb	1-S92						q l l
u Aqkr 8	6S92	1F 6	1FNS	1F -	1F 1	4F61	l l e
3 %nl l %npm	7192	962FS1	906F 0	9-1F22	967F4S		l l e
3 n&w l Amb	7 92	NN7F00	0 NF N	N6-F-6	N4 F44	- F2-	l l e
v %nOAmb	1S791				1SN		E
v %nOAmb	1S792				1S4		E
: qw5OAmb	4- 91				1SN		E
: qw5OAmb	4- 92				6		E
: r 8 5Amb	N291	NFS6	0F 0	0F21	0F04	6FS4	l l e
: r 8 5Amb	0092	6F06	0F 0	0F0S	0F4N	NF-7	l l e
: r 8 5Amb	0N92	NF6N	F-4	F--	F26	- F42	l l e
: A8Aqn5	2N91	SFNS	SF00	SF00	SF0N	2F70	l l e
: A8gr p	1S091	1F6	1F04	1F6	1F01	1F0-	l l e
: A8gr p	1S 91	1F-	1F6	1F61	1F67	7F16	l l e
: nOAmb	2792	SNF--	N-SF06	S2F0S	NN0F74	7F-N	l l e
: 8pn5&Amb	N691	1FN7	1F01	1F61	1F02	6F22	l l e
: 8pn5&Amb	NN91	1FN1	1F64	1F62	1F6	6F16	l l e
: m8mp	7491	9224SF76	92S10F2N	92S0SF2-	921S F2		l l e
i r peAmb	1- 91				1S6		E
i r peAmb	1- 92				1S2		E
i %w8Amb	2S791	1F-2	1F-N	1F-0	1F-6	2F27	l l e
i %w8Amb	2S-91	1F-4	1F-N	1F62	1F-N	2F4N	l l e
i A5	11N91	SFS4	SFS2	9SFS1	SFS2	1-2F76	l l e
i A&w5Amb	4091	NFS4	0FN	0F 7	0F -	SF	l l e
Rpw5Amb	27N91	1F7	1F4-	1F44	1F47	2F12	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	3B1-7 66B:	D5l &pmb 5r &u wb r Ja	3N
C8A5&J wb l 8 JD JaJ	LC: 66	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	2S279S0912J1 aS4a2-	t w&WJA8 Ju wb r Ja	126LC: . FO

3wpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l 7	c gMFCn5qF	Cn5qv : t	R5A&
Vw5wOAmb	-192	F-7	NF-S	FS4	FS2	-F6	l l e
Y8&pe Amb	10291						ql l
Y8&pe Amb	10292						ql l
Y8&pe Amb	10691						ql l
Y8&pe Amb	10692						ql l
Y8&pAmb	N 91				1S0		E
Y8&pAmb	N 92				1SS		E
ZA5q	6692	F-6	F1S	NF 7	F2S	7F-	l l e
ZAqn5Amb	S91	1F44	1F-7	1F42	1F46	7F 1	l l e
ZAqn5Amb	191	1F2N	1F7	1F4	1F7	0F6-	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	hh0h4F. h	h- 080F2-	hh224F22	h4: 22F14	1F8h	l l b
cn&Amon%	12171	SF- 2	SF- 2	SF- 6	SF- -	6FS-	l l b
crsenAq	0h72	46F22	4hF6h	44F64	4hFhS	1F06	l l b
BarAum	1- h71	2hhFS8	24hF82	216F. S	2- : F26	8F- 2	l l b
BarAum	1- 071	261F4-	24: FS1	218F11	242F8h	: F1:	l l b
Ber%lAum	: 71	SF88	SF08	SF06	SF81	0F. 2	l l b
BAsmu&E	2S: 71				1SS		G
BAsmu&E	2S: 72				1Sh		G
BromAne	8171						ql s
RaOmAum	1S871	1F21	SFh6	SF41	SF0-	h8F42	l l b
RaOmAum	1S671	74Fh8	72F. 2	7- F22	7- Fh0		l l b
RaOmAum	11171	SF1:	SF- S	SF10	SF22	- - F4-	l l b
RalqAum	4- 71	h4- 2F80	4: : 4Fhh	4h1: F44	4: 82F2:	: F10	l l b
RalqAum	4471	h0S8F02	h- 1: F. 1	48- hF- 2	h280F. :	8F20	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	: SF8S	88F- 2	8: F04	8: F62	1F- :	l l b
Robal&	h: 72	- 6F10	- hF86	- hF64	- hF8:	SF04	l l b
Rol l er	6- 72	116Fhh	116FS2	11hFh:	116FSh	SF41	l l b
t %sl rosAum	1h671						ql s
t %sl rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				1S4		G
KolmAum	16h72				1S8		G
DnOAum	11h71				1SS		G
DnOAum	11h72				1S2		G
Don	h472	68: 12F- 4	68- ShF02	680h0F60	686h8Fh8	SF46	l l b
Don	h672	686- 1F. h	684: 8F. h	6: 222F14	68084F- h	SFh6	l l b
Don	h072	0S46hF. 2	6: : 8: F. :	0S016F68	0S- : SF86	SFh2	l l b
kr%l &on	8- 71						ql s
LeaO	2S671	11F28	1SF41	: F4S	1SF- 6	: FSh	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
LeaO	2S071	11F14	: F: :	8F: 1	1SFS1	11F1-	I I b
LeaO	2S871	11F14	1SF1-	: F1:	1SF1h	: Fh6	I I b
LA&EAum	671				: -		G
MagnesAum	2472	2h118F4h	246: - F44	2hh01Fh8	2h120FB-	1F0h	I I b
Manganese	hh72	1- 8- Fh:	1- 6- FB2	1- 06F22	1- 04Fh4	SF0-	I I b
Mol%bOenum	: 471	hFB1	hF6:	hF1h	hFhh	6F28	I I b
Mol%bOenum	: h71	1F- S	1F- 0	1F1:	1F28	0F16	I I b
Mol%bOenum	: 671	1FB-	1F00	1F6:	1F06	4FSh	I I b
Mol%bOenum	: 071	1F- 1	1F44	1F22	1F- 2	8F42	I I b
Mol%bOenum	: 871	1F- 2	1F28	1F26	1F2:	2F- :	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	162F: 4	164F6h	161FSh	162FB8	1F11	I I b
PEosI Eorus	- 172	862Fh-	: h- F6-	8- 6F: :	884F- 8	6F: -	I I b
Po&assAum	- : 72	12S2Fh8	118SFS8	11: 6F6S	11: - FS:	SF: 8	I I b
5 EoOAum	1S- 71				1SS		G
5 EoOAum	1S- 72				1S6		G
pqanOAum	4h71				1S4		G
pqanOAum	4h72				1S1		G
pelenAum	8271	SF6h	7SF- -	SF- S	SF21	2- : F4S	I I b
pelenAum	0072	: FB6	16F4:	4F60	1SF- 4	h0F- S	I I b
pelenAum	0872	1F: 1	- FS0	1Fh0	2F18	- hF: h	I I b
pAAqon	2871	- : 0F20	- 6: F64	- - SF- 1	- 6hF04	: F2S	I I b
pAver	1S071	SF1S	SF1S	SFS8	SFS:	12FB6	I I b
pAver	1S: 71	SF1S	SF1S	SFS0	SFS:	10Fh2	I I b
poOAum	2- 72	2- 8F64	241F21	24- Fh-	241F1-	1FS1	I I b
p&ona&Aum	8671	h6F66	h4F: -	hSF62	h4FS0	hF06	I I b
p&ona&Aum	8871	h8FB4	hhFh1	4: F: h	h4F00	8F2S	I I b
pulVur	- 471	71480F12	7244- FB-	7- - h2F- 8	72420F08		I I b
i erbAum	1h: 71				1S1		G
i erbAum	1h: 72				1S6		G
i EallAum	2S- 71	SF21	SF18	SF1:	SF1:	0F- 1	I I b
i EallAum	2Sh71	SF1:	SF18	SF16	SF18	: F4-	I I b
i An	11871	SF40	SF48	SF42	SF46	0F62	I I b
i A&anAum	4071	8h0FBh	812F14	020F- 4	0: : F11	8F2:	I I b
UranAum	2- 871	1F68	1Fh2	1F- -	1Fh1	11FB4	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S4	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : 2	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9S0926	t a&a. Ae Name 9	120c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
yanaOAum	h172	12SFh8	11: F24	11: F28	11: F0S	SF64	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				1S4		G
Y&&Aum	8: 72				11S		G
ZAnq	6672	118F- 8	12SF- -	118F- 1	11: FS1	SF: 6	l l b
ZAqonAum	: S71	2F01	2Fh0	2F42	2Fh0	hF66	l l b
ZAqonAum	: 171	2F8S	2F64	2Fh6	2F60	4Fh6	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y ahq92&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1SJ2-	&sTsFdPP:u sb r :J	12NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	2072	2040U	22S4U09	496U60	- 4N2U94	- U S	DDe
q5Tb n5%	12171	SU22	SU S	SU29	SU20	16UN-	DDe
qpwr 5cd	0 72	46UN4	42U 6	4NU14	4 UN	6U 6	DDe
Bspcmb	1- 71	22- U S	21NU02	210U21	219U60	1U 9	DDe
Bspcmb	1- 071	224U 1	21NUS	216U44	219U6S	1UN9	DDe
Br p%PPmb	971	SU06	SU6N	SU04	SU02	U44	DDe
Bcvb mTE	2S971				1S0		G
Bcvb mTE	2S972				1S6		G
Bpmb d5r	N171						dDw
v sob cmb	1SN71	SU6S	SU69	SU06	SU6N	11UN4	DDe
v sob cmb	1S671	7- U 6	74U02	72U9N	7- U0		DDe
v sob cmb	11171	SU16	SU1S	SU12	SU1-	26U1N	DDe
v sPdcmb	4- 71	461SU26	4610U69	4662U40	46- SU14	SU61	DDe
v sPdcmb	4471	S USO	49- NU 1	4929U41	4904U26	1U41	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpd5r	- 71						dDw
v EPhpd5r	- 72						dDw
v Epmb cmb	272	1S2UN-	99U 0	1S4U24	1S2U21	2U 4	DDe
v nesPT	972	- 6U91	- U42	- 0U6-	- 6U6	- USO	DDe
v nDDr p	6- 72	112U90	1S9U6S	110UNS	11- U46	- U6-	DDe
&%wDpnwcmb	1 671						dDw
&%wDpnwcmb	1 672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
KnPb cmb	16 71				11S		G
KnPb cmb	16 72				1S0		G
t5ocmb	11 71				1SN		G
t5ocmb	11 72				1S1		G
tpn5	472	69N26U1	60- 00UN1	012- NU49	694NSUN2	2UN1	DDe
tpn5	672	0S046UN2	601 9U20	0S- - 1U9-	69412U60	2UN-	DDe
tpn5	072	02S62U 0	6091 USS9	010 1U 2	0S 06U26	- U20	DDe
kp%DTn5	N- 71						dDw
Lr so	2S671	9U 4	9U 0	9U1-	9U2N	1U4-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y ahq92&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1SJ2-	&sTsFdPP:u sb r :J	12NqC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S071	NUN2	NU09	NU6S	NU04	1U S	DDe
Lr so	2SN71	9US9	9US-	NU94	9US2	SUN	DDe
LdTEmb	671				1S1		G
y sM5r wmb	2472	24462U2	2- 90SU19	2 4 9U0	246- SU62	- USN	DDe
y s5Ms5r wr	72	1- - U09	1- S0U22	1- N1U	1- 40U2	2U09	DDe
y nP%eor 5mb	9471	U21	U0	U40	U	2U4	DDe
y nP%eor 5mb	9 71	1U2N	1U2	1U2N	1U S	1U9-	DDe
y nP%eor 5mb	9671	1UN-	1U04	1U01	1U06	- U69	DDe
y nP%eor 5mb	9071	1U20	1U4-	1U-	1U4	UN-	DDe
y nP%eor 5mb	9N71	1U4	1U S	1U S	1U1	1U6S	DDe
u r no%b mb	1 S71						dDw
u r no%b mb	1 S72						dDw
u dfr P	6S72	16- U0S	1 6U4N	166U16	162U11	- U1S	DDe
8 EnwDEnpmw	- 172	N9NU62	N- 2U0	94NU4-	N9- U14	6U2	DDe
8 nTswwmb	- 972	119 U61	11- 6U	1212U6	11N1U1	- U9	DDe
CEnomb	1S- 71				1S6		G
CEnomb	1S- 72				1S		G
I ds5omb	4 71				11S		G
I ds5omb	4 72				1S1		G
I rPP5mb	N271	SU0	7SUS4	7SUS4	SU1S	24- U9	DDe
I rPP5mb	0072	14U91	NU N	1- US1	12U16	26U02	DDe
I rPP5mb	0N72	1U0-	1U99	2U02	2U1	2- U9-	DDe
I dPdn5	2N71	- - - UN2	- 2NU4	- 2NU0	- - SU1N	SU96	DDe
I dPgr p	1S071	SUS0	SU1S	SUSN	SUSN	1 UN2	DDe
I dPgr p	1S971	SUS0	SUS0	SUSN	SUSN	0U6N	DDe
I nomb	2- 72	242U21	210U60	244U0	2- 4UN1	6U4	DDe
I Tpm5Tmb	N671	SU 1	SU41	49U4N	SU1-	1U1-	DDe
I Tpm5Tmb	NN71	SU41	49UN	49US6	49U61	1U42	DDe
I mPVmp	- 471	7- S 4UN9	7- 1 U1	7- - 29U94	7- - SSUS		DDe
Ar pemb	1 971				1S0		G
Ar pemb	1 972				1S4		G
AEs PPmb	2S- 71	SU14	SU11	SU16	SU14	1 U62	DDe
AEs PPmb	2S 71	SU16	SU12	SU14	SU14	1- US4	DDe
Ad5	11N71	SU2	SU6	SU6	SU4	6UNN	DDe
AdS5mb	4071	062U2S	049U9	0- NU60	0 SU1	1U0	DDe
Rps5mb	2- N71	1UN	1U6	1U6	1U0	SU94	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 4- - 7S	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y ahq 92&	&dPmTcn5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:19J1S.J2-	&sTsFdPr:u sb r :J	12NqC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
hs5soomb	172	121U6N	11 U 2	122U69	119U96	- U24	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N971				1S9		G
YTTpomb	N972				1S6		G
Zd5d	6672	119U10	110U06	126U	121U16	- U9S	DDe
Zqpdn5omb	9S71	2U9	2U42	2U44	2U42	1U16	DDe
Zqpdn5omb	9171	2U N	2U44	2U6S	2U 4	- U2	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - OO4LX7	DRw&Smb Rr &usb r J	8 N
v PA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- OO3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Uo

8ssSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23O2	1O173U31	1O133U-2	1O1N- UNN	1O132U-3	OU1-	I l e
c R&b nRy	12101	OU06	OU07	OU06	OU06	4UN2	I l e
c Sw r RAq	37O2	NU33	: U24	: UON	: UO-	2U61	I l e
Bs SAmb	1- 701	41U-3	41U3:	42U-:	41UN7	1U2-	I l e
Bs SAmb	1- 301	41U2-	41U33	42U-3	41U3:	1U-6	I l e
Br SyPAmb	: 01	OU13	OU16	OU1N	OU13	6U-	I l e
BAmb m&a	2O. 01				1O6		%
BAmb m&a	2O. O2				1O2		%
BSmb ARr	N101						ql w
v sob Amb	1ONO1	OUO.	OU1-	OU13	OU1-	- 1UNO	I l e
v sob Amb	1O601	O2U34	O4UNN	O7U7:	O4U4O		I l e
v sob Amb	11101	OUO4	OOUO1	OOUO-	OUOO		I l e
v sRqAmb	4- 01	N: 6UNO	NN7U64	NN7U71	NN: U1	OU3-	I l e
v sRqAmb	4401	: 24U2-	: OOU-6	: O- U3-	: O. U44	1U42	I l e
v sSenR	1201						ql w
v sSenR	12O2						ql w
v hPSRr	- 701						ql w
v hPSRr	- 7O2						ql w
v hSmb Amb	72O2	13U71	1NU2O	1NU12	13U4	2UON	I l e
v nesR&	7: O2	3UO-	3U14	3U1:	3U12	1U12	I l e
v nI l r S	6- O2	2- U43	22U:	2- U66	2- U3	1U4:	I l e
t ywl SnwAmb	1760 1						ql w
t ywl SnwAmb	1760 2						ql w
F SeAmb	1640 1						ql w
F SeAmb	1640 2						ql w
GsonPARAmb	16OO1						ql w
GsonPARAmb	16OO2						ql w
KnPb Amb	1670 1				1O7		%
KnPb Amb	1670 2				1O4		%
DRoAmb	1170 1				1O7		%
DRoAmb	1170 2				: :		%
DSmR	74O2	12364U61	12: 63UO-	12: - 7U1-	12NNNU2	OUN4	I l e
DSmR	76O2	1- 631U6:	1- N7: U-6	1- 63- U21	1- 3- 4U37	OU3:	I l e
DSmR	73O2	12612U-	12377UNN	12N: 7U1O	12374U64	1U11	I l e
k SyI &aR	N- 01						ql w
Lr so	2O601	1U-7	1U36	1UN3	1UN6	7U1N	I l e

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LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 4- - OO4LX7	DRw&Smb Rr &usb r J	8 N
v PA R&psb l P D J	Ha9c : 2L	t AP&AR. sq&aSJ	7
t s& T i A r cqdmAS o J	2O2- OO3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Uo

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
Lr so	2O301	1U3:	1U66	1U32	1U32	- U72	l l e
Lr so	2ON01	1UN6	1U37	1UN2	1UN1	- U2O	l l e
LA&mAmb	601				: N		%
HsMRr wAmb	24O2	43: 4U73	4363U1-	4N- 7U4	43: : U21	OU32	l l e
HsRMsRr w	77O2	263U-	26: U33	23- U62	23OU44	1UO3	l l e
H nPyeor Rmb	: 401	1UO3	1UON	1UO-	1UO6	2U42	l l e
H nPyeor Rmb	: 701	OU- O	OU26	OU26	OU23	NU74	l l e
H nPyeor Rmb	: 601	OU-	OU-	OU- 2	OU-	2UOO	l l e
H nPyeor Rmb	: 301	OU24	OU24	OU2-	OU24	- U2:	l l e
H nPyeor Rmb	: N01	OU2-	OU2N	OU27	OU27	: U17	l l e
u r noyb Amb	17O01						ql w
u r noyb Amb	17O02						ql w
u AqfrP	6OO2	- 2U- 1	- 2U37	- - U- O	- 2U:	OUN6	l l e
8hnwl hnSmw	- 1O2	: : U- 1	11: U26	114U44	111U2O	: UO6	l l e
8n&swwAmb	- : O2	247U66	246U67	244U46	247U7:	OU47	l l e
EhnoAmb	1O- 01				1O7		%
EhnoAmb	1O- O2				1O-		%
pqsRoAmb	4701				1O3		%
pqsRoAmb	47O2				: 6		%
pr P RAmb	N201	OOU6-	OOU22	OOU4O	OOU42		l l e
pr P RAmb	33O2	2U- 6	2UN:	OOU- N	1UN2	1O4U7-	l l e
pr P RAmb	3NO2	OU76	OUN2	OU1:	OU72	6OU17	l l e
pAAqnR	2N01	66UN4	6- U- N	64U47	67UO	2U- 6	l l e
pAgr S	1O301	OUO2	OUO-	OUO-	OUO-	2- UN:	l l e
pAgr S	1O: 01	OUO-	OUO2	OUO2	OUO-	3U- 3	l l e
pnoAmb	2- O2	72U- :	46U46	47UNN	4NU44	NU17	l l e
pSmR&Amb	N601	1OU4:	1OUOO	: U77	1OUO1	4U3-	l l e
pSmR&Amb	NN01	: UN7	: U61	: U33	: U34	1U2N	l l e
pmPrS	- 401	O23N: U42	0- 16- U27	0- 1NNU7:	0- O43UO		l l e
i r SeAmb	17: 01				1O3		%
i r SeAmb	17: O2				1O4		%
i hsPAmb	2O- 01	OUO7	OUO7	OUO6	OUO7	7UN4	l l e
i hsPAmb	2O701	OUO4	OUO7	OUO7	OUO7	17UN4	l l e
i AR	11N01	OUO4	OUOO	OUO7	OUO-	N6U73	l l e
i A&sRAmb	4301	144UO4	141U3N	146U- 2	144UO7	1U7N	l l e
CSsRAmb	2- N01	OU23	OU23	OU27	OU26	4U2O	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8N
v PR&psb l P D J	Ha9c : 2L	t ARn&nR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ub

8sSsb r &S	Hsww	v nRErl 1	v nRErl 2	v nRErl -	cgMUv nRqU	v nRqEpt	CRA&w
9sRsoAmb	71O2	2- UN2	2- U-6	2- U3:	2- U66	1UO2	l l e
Y&&SeAmb	13201						ql w
Y&&SeAmb	13202						ql w
Y&&SeAmb	13601						ql w
Y&&SeAmb	13602						ql w
Y&&SAmb	N: 01				1O6		%
Y&&SAmb	N: 02				1O1		%
ZARq	6602	24U34	2- U72	2- U36	24UO1	2U3O	l l e
ZASqnRAmb	: O01	O147	O14:	O143	O143	4U24	l l e
ZASqnRAmb	: 101	O146	O146	O142	O147	4U1	l l e

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 9169I:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	4: h: 8F51	h10- 4F. h	h214: F20	h116SF04	2F68	I I b
cn&Amon%	12171	1: F88	18F4h	1: Fhh	1: F- S	- F88	I I b
crsenAq	0h72	h2F0h	hhF11	h- F0S	h- F8h	2F21	I I b
BarAum	1- h71	6S1F2h	hhhF00	h: 8F4h	h8hF16	4F- 6	I I b
BarAum	1- 071	6ShF6:	h60Fh2	6S4F66	h: 2F62	- F60	I I b
Ber%lAum	: 71	11FSS	1SF- 8	1SF62	1SF60	2F. 6	I I b
BAsmu&E	2S: 71				1S8		G
BAsmu&E	2S: 72				1S-		G
BromAne	8171						ql s
RaOmAum	1S871	8FS4	0F88	: F40	8F46	1SF- 6	I I b
RaOmAum	1S671	4F24	hF42	4F28	4F6h	14F48	I I b
RaOmAum	11171	1SF24	: F20	1SF2S	: F. S	hFhh	I I b
RalqAum	4- 71	42- - F24	4SS- FS1	41- 2F0S	4122F. 8	2F8S	I I b
RalqAum	4471	4h1: F4-	410SF- h	444: FS4	4- 0: F61	4F22	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	182F68	1: 4F21	18: F8-	188F. 1	- FS8	I I b
Robal&	h: 72	146F. 6	1hhF2-	1hSF- S	1hSF8-	2F06	I I b
RoI I er	6- 72	1h6F. 4	164F1h	1h: F4:	16SF1:	2F28	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				11-		G
KolmAum	16h72				1S-		G
DnOAum	11h71				11S		G
DnOAum	11h72				: 8		G
Don	h472	0111SF- 8	02010F. 4	01S6: FS1	016- 2F44	1F- 1	I I b
Don	h672	684: hF12	02: 48F1-	0SS02FS0	0ShShF11	- F2S	I I b
Don	h072	0S100F- 4	0- - : : F- 1	02: 14F2-	0216- F6-	2F41	I I b
kr%l &on	8- 71						ql s
LeaO	2S671	12FS0	11F88	11F08	11F. 1	1F22	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9169I:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	11Fh8	11F- 6	11FhS	11F48	SF. 8	I I b
LeaO	2S871	11F80	11F4h	11Fh6	11F6-	1F86	I I b
LA&EAum	671				1S4		G
MagnesAum	2472	2- 04: F4h	240- 8Fh6	24- 12F- 6	24266F0:	2FS4	I I b
Manganese	hh72	1- hSF61	141- Fh:	1- 08F. 1	1- 81FS4	2F28	I I b
Mol%bOenum	: 471	hFhh	hFh2	hFh0	hFhh	SF4h	I I b
Mol%bOenum	: h71	1F6h	1F0h	1F68	1F6:	2F. 8	I I b
Mol%bOenum	: 671	2F1h	2F18	2F11	2F1h	1F6h	I I b
Mol%bOenum	: 071	1F. 0	1F0h	1F0:	1F84	6F20	I I b
Mol%bOenum	: 871	1F06	1F0-	1F60	1F02	2F46	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	26hF26	284F18	202F. :	204F1h	- F40	I I b
PEosI Eorus	- 172	826F88	8S4FSS	8h8F68	82: F8h	- F- 1	I I b
Po&assAum	- : 72	1114F1:	11- 0F. 1	1141F4-	11- 1F18	1F- 1	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S2		G
pqanOAum	4h71				11h		G
pqanOAum	4h72				: 0		G
pelenAum	8271	18F88	18F2-	2SF40	1: F1:	6FS2	I I b
pelenAum	0072	- 4F61	- 8FS1	- 1F60	- 4F06	: F1-	I I b
pelenAum	0872	2- FS-	2hFS-	2SF82	22F. 6	: F18	I I b
pAAqon	2871	- S2F- 2	200F1:	28: F0h	28: F06	4F- 4	I I b
pAver	1S071	8F41	0F. 1	8F- 0	8F2-	- F41	I I b
pAver	1S: 71	8F42	8FSh	8F4h	8F- 1	2F0S	I I b
poOAum	2- 72	2S8F. S	221F81	21: F86	216F86	- F21	I I b
p&on&Aum	8671	4hF- 2	4- FS2	44F81	44F- 8	2F02	I I b
p&on&Aum	8871	44F81	41F02	4- F04	4- F4-	- F61	I I b
pulVur	- 471	7- 62: F8:	741- hF64	7- 8- 4F6:	7- 866F04		I I b
i erbAum	1h: 71				11-		G
i erbAum	1h: 72				1S-		G
i EallAum	2S- 71	: FSS	8F6:	8F. S	8F80	1F81	I I b
i EallAum	2Sh71	: FS6	8F08	: F1h	: FSS	2F14	I I b
i An	11871	SF- 4	SF26	SF- 6	SF- 2	1hF4h	I I b
i A&anAum	4071	0S1F1:	6h: F84	68hF. 4	682F- -	- FS6	I I b
UranAum	2- 871	1F- S	1F2h	1F20	1F20	2FS-	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S6	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : 2p	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9169 1:	t a&a. Ae Name 9	1- Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	22: F22	24SF- S	2- 6F: 4	2- hF4:	2F41	I I b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				112		G
Y&&Aum	8: 72				: :		G
ZAnq	6672	221F01	2- SF: :	22hF46	226FS6	2FS0	I I b
ZAqonAum	: S71	2F4-	2F1-	2F28	2F28	6F44	I I b
ZAqonAum	: 171	2F26	2F10	2F40	2F- S	6F00	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPP:u sb r :J	1- 1qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb c5cmb	20 2	7242UN6	4949US7	7- 9- U 1	7197US0	4U 7	DDe
q5Tb n5%	121 1	SU9S	SU00	SUNN	SUN7	0U9S	DDe
qpwr 5cd	07 2	NU12	0U64	NU77	NU1S	7U64	DDe
Bspcmb	1- 7 1	192USS	167U14	162U00	10- U S	9U 0	DDe
Bspcmb	1- 0 1	19- U1-	166U74	164U91	104UN6	9USS6	DDe
Br p%PPmb	9 1	1U62	1U72	1U44	1U7-	7UN7	DDe
Bcvb mTE	2S9 1				1S4		G
Bcvb mTE	2S9 2				1S0		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	SUNS	SU6S	SU-	SU7N	4SU77	DDe
v sob cmb	1S6 1	1U9S	2USS1	- U4-	2U47		DDe
v sob cmb	111 1	SU4-	SU29	SU29	SU4	2- U94	DDe
v sPdcmb	4- 1	2N7NSUS0	247- 6U6	2- 477U47	2772- U96	1SU7N	DDe
v sPdcmb	44 1	2917- USS9	261S7U16	247NSUNN	2661- USS7	NU07	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- 7 1						dDw
v EPhpc5r	- 7 2						dDw
v Epmb cmb	72 2	17U2S	14U6	17U7N	17USS7	4U1-	DDe
v nesPT	79 2	4U S	4USS9	4U6	4U27	- U29	DDe
v nDDr p	6- 2	1NU62	10U7	1NU96	1NU1	4U64	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				1S7		G
h nPb cmb	167 2				1SN		G
t5ocmb	117 1				1S2		G
t5ocmb	117 2				1S-		G
tpn5	74 2	179S- U7	17S42U2	1621NU77	17021U20	- UN0	DDe
tpn5	76 2	1606- U9N	16112U6-	104SNU10	16061U79	- UN6	DDe
tpn5	70 2	17740U0S	14N62U1	1641NU6S	176S9U7-	7USS	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	- - U6S	2NUS7	2NU74	- SUS6	1SU2-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPP:u sb r :J	1- 1qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	- 1U91	27UNS	26U44	2NUS7	11U96	DDe
Lr so	2SN 1	- 2U04	20U2S	20UN2	29U26	1SU-0	DDe
LdEcmb	6 1				96		G
y sM5r wcmb	24 2	0414U71	0S- 0U6-	040- U40	0- SNU74	- U24	DDe
y s5Ms5r wr	77 2	760U6N	7- 6U21	7NSU6S	761U49	4US0	DDe
y nP%eor 5mb	94 1	NU20	0U19	0U20	0U7N	0U90	DDe
y nP%eor 5mb	97 1	2U12	1UN0	1U01	1U9S	1SUNN	DDe
y nP%eor 5mb	96 1	2UNS	2U40	2U7S	2U79	6U90	DDe
y nP%eor 5mb	90 1	2U-1	1UN-	1U94	2US-	12U10	DDe
y nP%eor 5mb	9N 1	2U21	1U91	1U0N	1U90	11U1-	DDe
u r no%b cmb	17S 1						dDw
u r no%b cmb	17S 2						dDw
u cdkr P	6S 2	NU62	NU1N	9US-	NU61	4U96	DDe
8 EnwDEnpmw	- 1 2	610U26	760U14	6N7U20	62- U22	9U71	DDe
8 nTswwcmb	- 9 2	214SU7N	2S66USN	22- 7USS	2140U22	- U94	DDe
CEnocmb	1S- 1				1S2		G
CEnocmb	1S- 2				1S0		G
I ds5ocmb	47 1				1S1		G
I ds5ocmb	47 2				99		G
I r P 5cmb	N2 1	SU70	SU67	SUNS	SU60	10U47	DDe
I r P 5cmb	00 2	4- U12	24U60	- 6U72	- 4U00	26UN9	DDe
I r P 5cmb	0N 2	NUS9	6U4S	NUS9	0U7-	1- US1	DDe
I cdn5	2N 1	144U96	12SUN9	11NU19	12NUS1	11U71	DDe
I dgr p	1S0 1	SU14	SU17	SU14	SU14	1US0	DDe
I dgr p	1S9 1	SU14	SU10	SU16	SU17	NU9N	DDe
I nocmb	2- 2	162U67	177UN7	10- U6S	164US4	7U46	DDe
I Tpm5Tcmb	N6 1	7- UNN	46U94	44U-9	4NU4S	1SU17	DDe
I Tpm5Tcmb	NN 1	72U6S	46US1	44U-4	40U67	9U16	DDe
I mPmp	- 4 1	2N- UNS	1- 29UNN	1- 6- U-0	992U-7		DDe
Ar pecmb	179 1				1S7		G
Ar pecmb	179 2				1S9		G
AEs PPmb	2S- 1	SU27	SU22	SU2-	SU2-	6U9-	DDe
AEs PPmb	2S7 1	SU22	SU2S	SU2S	SU21	7U00	DDe
Ac5	11N 1	6U19	7U24	7U41	7U61	NU90	DDe
AcS5cmb	40 1	47- US7	- 9- U91	- 06UN4	4S0U9-	9UNS	DDe
Rps5cmb	2- N 1	2U14	1UN0	1UN4	1U97	NU7S	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S4	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFNS	&dPmTm5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J19J14	&sTsFdPr:u sb r :J	1- 1q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	10U47	16UNS	1NU41	10U77	4U6S	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				1S0		G
YTTpomb	N9 2				111		G
Zd5d	66 2	1- 0U94	12NU71	141U06	1- 6USS0	7USS1	DDe
Zqpdn5omb	9S 1	- U0S	- U24	- U10	- U 0	NU6S	DDe
Zqpdn5omb	91 1	- U6S	- U2-	- U22	- U 7	6U49	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdPP:u sb r :J	1- 2qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
qPmb d5cmb	20 2	7SS0U1S	7S41U00	7S04U-2	7S41US6	SU60	DDe
q5Tb n5%	121 1	SU0-	SUNS	SU00	SU00	4U92	DDe
qpwr 5cd	07 2	0U99	0U9N	NU40	NU17	- U7S	DDe
Bspcmb	1- 7 1	17NU69	176U9N	177UN4	170U10	SU91	DDe
Bspcmb	1- 0 1	162U10	179U07	17NU40	16SU1-	1U10	DDe
Br p%PPmb	9 1	1U42	1U47	1U-6	1U41	- U-N	DDe
Bcvb mTE	2S9 1				1S9		G
Bcvb mTE	2S9 2				1SN		G
Bpmb d5r	N1 1						dDw
v sob cmb	1SN 1	SU9-	SU02	SU90	SUN0	17U47	DDe
v sob cmb	1S6 1	1U99	- UN7	2U94	2U9-		DDe
v sob cmb	111 1	SU-7	SU-2	SU29	SU-2	NU79	DDe
v sPdcmb	4- 1	2- 221U71	22N46U00	22044U1S	229- 0U46	1U1S	DDe
v sPdcmb	44 1	2- N06U94	24119US7	2- 417U07	2- NS- U91	1U7S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpd5r	- 7 1						dDw
v EPhpd5r	- 7 2						dDw
v Epmb cmb	72 2	14UN4	14U94	14U77	14U0N	1U-7	DDe
v nesPT	79 2	4U19	4U1N	4U1-	4U10	SUN6	DDe
v nDDr p	6- 2	10U62	10UN2	10U02	10U02	SU70	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				112		G
h nPb cmb	167 2				1S9		G
t5ocmb	117 1				111		G
t5ocmb	117 2				1S-		G
tpn5	74 2	17- 2SU60	17- 6SU-1	17700U01	17419U70	SU9S	DDe
tpn5	76 2	16266U02	16- 07U9-	16626U-6	1642- USS	1U12	DDe
tpn5	70 2	1710SU22	171S2U0S	17471U9S	17241U6S	1U22	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	20U92	20U-9	20U14	20U4N	1U46	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdPP:u sb r :J	1- 2qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	27U94	27U74	27U6N	27U02	SU09	DDe
Lr so	2SN 1	20U-S	26U69	26U06	26U92	1U24	DDe
LdTEomb	6 1				1S1		G
y sM5r womb	24 2	010- U9S	011SU-N	017SU17	0144UN1	SU47	DDe
y s5Ms5r wr	77 2	771US1	771U66	76- U-	777U-	1U27	DDe
y nP%eor 5mb	94 1	0U17	6U94	0US7	0US7	1U77	DDe
y nP%eor 5mb	97 1	1UN2	1UN7	1U69	1U09	4UNS	DDe
y nP%eor 5mb	96 1	2U-4	2U4S	2U-	2U-6	1U71	DDe
y nP%eor 5mb	90 1	1UN6	1U00	1U6N	1U00	7U12	DDe
y nP%eor 5mb	9N 1	1UN0	1UNS	1U06	1UN1	- US7	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	NU47	NU7N	NU2N	NU44	1U06	DDe
8 EnwDEnpmw	- 1 2	6S9US-	612U44	700U71	799U66	- U21	DDe
8 nTswwomb	- 9 2	211- U-6	2SN- U24	21SSU-4	2S9NU9N	SU02	DDe
CEnoomb	1S- 1				1S9		G
CEnoomb	1S- 2				1SN		G
I ds5oomb	47 1				111		G
I ds5oomb	47 2				1SS		G
I r P 5omb	N2 1	SU11	SU2S	SU2N	SU2S	4- U76	DDe
I r P 5omb	00 2	41U2S	2NU99	- 6U7-	- 7U70	10U-	DDe
I r P 5omb	0N 2	7UNS	4U47	6U66	7U64	19U69	DDe
I dPdn5	2N 1	11- U97	114U-6	11- U02	114US1	SU29	DDe
I dPgr p	1S0 1	SU14	SU12	SU1-	SU1-	NU16	DDe
I dPgr p	1S9 1	SU17	SU11	SU12	SU1-	17U6-	DDe
I nomb	2- 2	171U-9	17SU71	170US9	17- USS	2U-4	DDe
I Tpn5Tomb	N6 1	47UN2	42U16	42U07	4- U7N	4U7S	DDe
I Tpn5Tomb	NN 1	44U2-	4- U1-	42U14	4- U16	2U41	DDe
I mPmp	- 4 1	14N2U62	169SUNN	1644U0-	16S6USN		DDe
Ar pemb	179 1				112		G
Ar pemb	179 2				1SN		G
AEs PPmb	2S- 1	SU21	SU1N	SU2S	SU2S	6U1S	DDe
AEs PPmb	2S7 1	SU22	SU1N	SU2S	SU2S	9U01	DDe
Ad5	11N 1	7U2S	4UNS	4UN9	4U96	4U1N	DDe
AdS5omb	40 1	- 01U16	- 0SU22	- 79U9N	- 60U12	1U69	DDe
Rps5omb	2- N 1	1UN4	1UN1	1UNS	1UN2	1US2	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S7	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFNS&	&dPmTm5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J22J1-	&sTsFdPr:u sb r :J	1- 2q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	10U2	16U00	10U62	10U2-	2U7S	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				117		G
YTTpomb	N9 2				11-		G
Zd5d	66 2	1- 2U9S	1- 1U74	1- - UN	1- 2U61	SU02	DDe
Zqpdn5omb	9S 1	- US9	- USN	2U92	- US-	- U21	DDe
Zqpdn5omb	91 1	- U4	- U1N	- U12	- U22	- U49	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5-40OXO4L70	DRw&Smb Rr &usb r J	8N
v PA R&psb I P D J	H9O. NOL	t AP&AR. sq&aSJ	0
t s& T i A r cqdmAS o J	2O2-XO3X12 1: J20J11	t s&s. AP usb r J	1--cEF. Uo

8ssSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23X2	1OO3U4:	11NOUOO	1O-3U1:	1O34UO	NU0N	l l e
c R&b nRy	121X1	OU13	OU16	OU1N	OU13	0U02	l l e
c Sw r RAq	30X2	1U32	2U1O	1U6N	1UN-	12U4N	l l e
Bs SAmb	1-0X1	--U62	-1UO-	-1UN-	-2U16	4U11	l l e
Bs SAmb	1-3X1	-1U-	-1U43	-2U:	-1U3-	1UN-	l l e
Br Sy PAmb	:X1	OU2	OU2N	OU2	OU1	3U22	l l e
BAb m&a	2O. X1				1ON		%
BAb m&a	2O. X2				1O1		%
BSmb ARr	N1X1						ql w
v sob Amb	1ONX1	OU1	OU10	OUO1	OU16	:4U2	l l e
v sob Amb	1O6X1	X1U60	X-U06	X2U02	X2U0N		l l e
v sob Amb	111X1	OUO-	OUO2	OUON	OUO4	6:U1O	l l e
v sRqAmb	4-X1	4021U40	403:U4	4633U00	40:2UN	1U32	l l e
v sRqAmb	44X1	4N-4U63	4N42U1	4NN-UO1	4N0-U-	OU04	l l e
v sSenR	12X1						ql w
v sSenR	12X2						ql w
v hPSRr	-0X1						ql w
v hPSRr	-0X2						ql w
v hSmb Amb	02X2	2U4	-U60	-U1	-U2-	11U42	l l e
v nesR&	0:X2	OU1	OU:	OUNO	OUO	1OU64	l l e
v nI l r S	6-X2	-U36	4U4:	-U32	-U:	1OU0	l l e
t ywl SnwAmb	106X1						ql w
t ywl SnwAmb	106X2						ql w
F SeAmb	164X1						ql w
F SeAmb	164X2						ql w
Gson PARAmb	16OX1						ql w
Gson PARAmb	16OX2						ql w
9 nP Amb	160X1				1O.		%
9 nP Amb	160X2				1O2		%
DRo Amb	110X1				1O.		%
DRo Amb	110X2				:6		%
DSmR	04X2	-O6-U04	-6ONU:	-130U3:	-2N2U03	NU36	l l e
DSmR	06X2	--43U62	-N36U60	--N4U26	-0-6U1N	NU0	l l e
DSmR	03X2	-O3-U63	-0:3UN-	-14:U0:	-23-U3O	NU60	l l e
KSyl &aR	N-X1						ql w
Lr so	2O6X1	0U40	0U0:	0U01	0U02	1U23	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
v PA R&psb l P D J	H9O. NOL	t ARm&AR. sq&aSJ	0
t s& T i Av r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Ub

8sSsb r &S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMUv nRqU	v nRqEpt	CRA&w
Lr so	2O3X1	0U10	0U12	0U1-	0U1-	OU26	l l e
Lr so	2ONX1	0U-O	0U4O	0U-N	0U-6	OU-6	l l e
LA&mAmb	6X1				: 3		%
HsMRr wAmb	24X2	14O3U00	16NOU30	14NOUN1	102- U04	: U2N	l l e
HsRMsRr w	00X2	11OU22	123U03	112U6O	116UNO	NU00	l l e
HnPyeor Rmb	: 4X1	1U2N	1U42	1U42	1U-3	0U34	l l e
HnPyeor Rmb	: 0X1	OU46	OU-1	OU-N	OU- :	1: U13	l l e
HnPyeor Rmb	: 6X1	OU40	OU46	OU42	OU44	4U-O	l l e
HnPyeor Rmb	: 3X1	OU41	OU-3	OU-	OU-3	1OUN:	l l e
HnPyeor Rmb	: NX1	OU41	OU-O	OU-	OU-0	16U14	l l e
ur noyb Amb	10OX1						ql w
ur noyb Amb	10OX2						ql w
uAqkr P	6OX2	1U3N	1U-6	1U66	1UNO	NU43	l l e
8hnwl hnSmw	- 1X2	31U- :	110U21	64U3-	N- U33	- 2U34	l l e
8n&swwAmb	- : X2	426U14	4: 2U22	446U3-	400UO-	3U4-	l l e
EhnoAmb	1O- X1				1O.		%
EhnoAmb	1O- X2				1O1		%
pqsRoAmb	40X1				1ON		%
pqsRoAmb	40X2				: 4		%
pr P RAmb	N2X1	XOU1N	OU0-	OU0O	XOU00		l l e
pr P RAmb	33X2	0U1-	NU- :	4U11	0UNN	- NU04	l l e
pr P RAmb	3NX2	1U20	2U4-	1U01	1U3-	- 0U-4	l l e
pAAqnR	2NX1	2- U- :	2- U22	22UN2	2- U14	1U26	l l e
pAgr S	1O3X1	OU04	OU04	OU04	OU04	1U11	l l e
pAgr S	1O. X1	OU04	OU0-	OU0-	OU0-	0U-2	l l e
pnoAmb	2- X2	21U03	41UN0	24UN6	2: U4-	- 6U- :	l l e
p&mR&Amb	N6X1	NUN0	NU60	NU34	NU30	1U16	l l e
p&mR&Amb	NNX1	: U03	NU3N	NUN-	NUN:	1U3N	l l e
pmPmS	- 4X1	X1- 26U21	X1- 16U30	X12- NU2N	X12: - U30		l l e
i r SeAmb	10: X1				1O.		%
i r SeAmb	10: X2				1O1		%
i hsPAmb	2O- X1	OU00	OU03	OU03	OU06	10U04	l l e
i hsPAmb	2O0X1	OU00	OU00	OU00	OU00	0U-4	l l e
i AR	11NX1	OUNN	OU-O	1U02	OU-	NU4-	l l e
i A&sRAmb	43X1	32UN0	3- U3:	3- U22	3- U2N	OU60	l l e
CSsRAmb	2- NX1	OU-0	OU-0	OU-6	OU-0	OUN1	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse psb l P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
v PR&psb l P D J	H9O. NOL	t ARn&nR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - c EF. Uo

8sSsb r &S	Hsww	v nRErl 1	v nRErl 2	v nRErl -	cgMUv nRqU	v nRqEpt	CRA&w
VsRsoAmb	01X2	- U06	4U0-	- U46	- U6N	NU20	l l e
Y&&SeAmb	132X1						ql w
Y&&SeAmb	132X2						ql w
Y&&SeAmb	136X1						ql w
Y&&SeAmb	136X2						ql w
Y&&SAmb	N: X1				1O:		%
Y&&SAmb	N: X2				: N		%
ZARq	66X2	26U3-	- OU6-	26U6:	2NUO2	NUON	l l e
ZASqnRAmb	: OX1	OU62	OU64	OU60	OU64	2U0:	l l e
ZASqnRAmb	: 1X1	OU00	OU61	OU0N	OU0N	0U14	l l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S6	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFaSl	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19.J2aJ11	&wTwFd8 :u wb r :J	1- 4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM:v n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	49a- U64	7S67U72	7249U1S	7S99U42	2U60	DDe
q5Tb n5%	121 1	2SU6a	1aU2a	27US-	21U-	16US4	DDe
qpl r 5cd	07 2	17U76	17U2	16U06	17Uaa	4Ua7	DDe
Bwpcmb	1- 7 1	706U62	7SaUS9	0S1U6a	797U46	16U4a	DDe
Bwpcmb	1- 0 1	791U1a	711UaS	0S6Ua-	6S- U20	16U26	DDe
Br p%8cmb	9 1	12U2	11U17	14U4-	12U6-	1- U17	DDe
Bdb mTE	2S9 1				1S7		G
Bdb mTE	2S9 2				1S0		G
Bpmb d5r	a1 1						dDl
v wob cmb	1Sa 1	9US9	aU04	11UaS	9Uaa	16U96	DDe
v wob cmb	1S6 1	0U7S	6U1S	0U9S	0U16	1- U22	DDe
v wob cmb	111 1	1SU96	9U7-	1- U9	11U29	10U20	DDe
v w8dcmb	4- 1	2- 4a- U0-	2S696U4	2916- U07	24440U94	10U67	DDe
v w8dcmb	44 1	246a1U2-	2S96aUa1	- S11- U64	27274U76	1aU21	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	76U4-	76Ua7	79U07	70U6a	- U14	DDe
v new8T	79 2	116US1	110U62	121U11	11aU27	2U21	DDe
v nDDr p	6- 2	66U-	66U66	69U6a	60U76	2U0-	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				1S6		G
h n8b cmb	167 2				1S6		G
t5ocmb	117 1				1S4		G
t5ocmb	117 2				1S1		G
tpn5	74 2	1- a97U10	1- 969Ua6	1447SU12	141S7US7	2U14	DDe
tpn5	76 2	14a46US-	1491aU2a	17- 96U29	17S7- U7-	1U99	DDe
tpn5	70 2	1- a11US9	1- a26USa	14- 6SUS4	1- 999US0	2U2-	DDe
Kp%DTn5	a- 1						dDl
Lr wo	2S6 1	- 1U64	2aU71	- 9U1S	- - USa	16U44	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 47S S6	t5l Tpmb 5r Tuwb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFaSl	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J2aJ11	&wTwFd8 :uwb r :J	1- 4qC. Flb

NwpwbrTrp	ywl l	vn5Cr D1	vn5Cr D2	vn5Cr D-	qgMJvn5dU	vn5dCl &	R5dT
Lr wo	2S0 1	29U9a	26U92	- 6U61	- 1U10	17Ua9	DDe
Lr wo	2Sa 1	- 1US2	20U6S	- 0Ua7	- 2U16	16U2-	DDe
LdTEmb	6 1				96		G
y wW5rl mb	24 2	0SSaU6S	0S0- U9a	0276U0-	011- U1S	1Ua1	DDe
y w5Mw5rl r	77 2	6S4U00	614U60	6- 6U60	61aU0S	2U64	DDe
y n8%eor 5mb	94 1	0U12	7U01	aU-7	0US6	1aU04	DDe
y n8%eor 5mb	97 1	1U74	1U20	1U0a	1U7-	16U64	DDe
y n8%eor 5mb	96 1	2US-	1U09	2U7-	2U11	1aUS1	DDe
y n8%eor 5mb	90 1	1U74	1U27	1U09	1U7-	10U71	DDe
y n8%eor 5mb	9a 1	1U49	1U-1	1Uaa	1U76	1aU7a	DDe
ur no%b mb	17S 1						dDl
ur no%b mb	17S 2						dDl
ud kr 8	6S 2	127U16	126U6-	1- SU-1	120U-0	2USa	DDe
NEnl DEnpm	- 1 2	6a4US2	640U96	691U7-	604U71	- U47	DDe
NnTwl mb	- 9 2	190- U77	1909U-6	2Sa1Ua1	2S11U70	- US-	DDe
CEnomb	1S- 1				1S2		G
CEnomb	1S- 2				1S0		G
l dw5omb	47 1				1S4		G
l dw5omb	47 2				99		G
l r 8 5mb	a2 1	2SU10	10U2a	24U77	2SU66	10U01	DDe
l r 8 5mb	00 2	4- Ua6	7- Uaa	62U79	7- U44	10U7-	DDe
l r 8 5mb	0a 2	21U01	22U27	20U27	2- U04	12Ua6	DDe
l 8dn5	2a 1	140U00	1- 2U77	19SU96	170US9	19U29	DDe
l 8gr p	1S0 1	9U-1	aUSS	1SUaS	9U-0	14U94	DDe
l 8gr p	1S9 1	9U2-	0U92	1SUa2	9U-2	17U61	DDe
l nomb	2- 2	2S4U4a	211Ua2	211U-S	2S9U2S	1U96	DDe
l Tpn5Tmb	a6 1	4- U40	- 6U92	72U92	44U4-	1aU11	DDe
l Tpn5Tmb	aa 1	4- U46	- 6U97	72U17	44U19	10U26	DDe
l m8mp	- 4 1	aa1US-	19- 2U-S	1496Ua0	4- aUa2		DDe
Ar pemb	179 1				1S6		G
Ar pemb	179 2				1S7		G
AEw8mb	2S- 1	9U21	aU2-	11U4a	9U64	10U-S	DDe
AEw8mb	2S7 1	9U-	aU26	11U2a	9U62	17Ua0	DDe
Ad5	11a 1	2U2-	1Ua6	2U96	2U-7	2- Ua9	DDe
AdTw5mb	40 1	- 4- U29	299U-	426U17	- 76U27	1aUSa	DDe
Rpw5mb	2- a 1	1U0-	1U79	2U1S	1UaS	14U77	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S6	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFaSl	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :q dOmpr o:J	2S2- S0 12:19.J2aJ11	&wTwFd8 :u wb r :J	1- 4q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	1- SU6	1- 1ua9	1- 4U76	1- 2U20	1U61	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	a9 1				1S9		G
YTTpcmb	a9 2				1S9		G
Zc5d	66 2	24SUSa	24aU4a	277U27	240U9-	- USS0	DDe
Zcpdn5cmb	9S 1	- U44	2U6a	- U90	- U0	19U2S	DDe
Zcpdn5cmb	91 1	- U0-	2U67	- Ua1	- U4S	19USS9	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
c lumAnAum	20 2	1- 026U21	1- 060U6-	1- 011US-	1- 0- 4U76	SU21	I I b
c n&mon%	121 1	SU04	SU08	1U1-	SU37	24U22	I I b
c rsenAq	05 2	26U-5	26U27	26U30	26U5S	1U2S	I I b
BarAum	1- 5 1	- 28U40	- 66U16	5- SUS1	4S8U21	26U25	I I b
BarAum	1- 0 1	- 24U45	- 6- U50	5- 0U-S	4S8U44	20U04	I I b
Ber%lAum	7 1	1U40	1U65	2U2-	1U08	22U-1	I I b
BAsmu&E	2S7 1				11S		G
BAsmu&E	2S7 2				1S7		G
BromAne	81 1						ql s
v aOmAum	1S8 1	1U42	1U0-	2U4-	1U36	20U0-	I I b
v aOmAum	1S6 1	2U-	1US8	SU16	1US8		I I b
v aOmAum	111 1	1U-8	1U52	2U2-	1U01	26U36	I I b
v alqAum	4- 1	15708U-S	16048U-1	24676U5S	17141US4	25U22	I I b
v alqAum	44 1	16101U17	1084- U50	25741U74	17785U50	26U15	I I b
v arbon	12 1						ql s
v arbon	12 2						ql s
v ElorAne	- 5 1						ql s
v ElorAne	- 5 2						ql s
v EromAum	52 2	22U00	22U72	22U0S	22U07	SU48	I I b
v obal&	57 2	16U76	16U08	16U4S	16U01	1U02	I I b
v ol I er	6- 2	07U3S	81U42	82U-6	81U17	1U57	I I b
t %sI rosAum	156 1						ql s
t %sI rosAum	156 2						ql s
. rbAum	164 1						ql s
. rbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
h olmAum	165 1				1S8		G
h olmAum	165 2				1S7		G
DnOAum	115 1				1S0		G
DnOAum	115 2				1S-		G
Don	54 2	42517U2S	4268- U34	42077U54	42660U5-	SU--	I I b
Don	56 2	424S4U10	4- - 71U57	4284SU26	42808U60	1U15	I I b
Don	50 2	42847U00	42187U3-	4- 286U35	42005U48	1U27	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	02U42	08U27	117U35	7SU17	28U60	I I b

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Inst Id :P8

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Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
LeaO	2S0 1	67U7	04U7	114U26	86U5	28U0	I I b
LeaO	2S8 1	02U41	06U5S	110U44	88U07	28U55	I I b
LA&EAum	6 1				1S1		G
y aMhesAum	24 2	6470U28	6610U1-	656- U0S	6557U0	SU72	I I b
y anManese	55 2	754U54	70- U87	76- U67	76- U80	1U5-	I I b
y ol%bOenum	74 1	1SU S	11U41	16U56	12U57	24U25	I I b
y ol%bOenum	75 1	1U05	1U70	2U82	2U18	25U71	I I b
y ol%bOenum	76 1	2U06	2U81	4U7	- U2	20U71	I I b
y ol%bOenum	70 1	1U7-	2U50	2U82	2U28	2SU88	I I b
y ol%bOenum	78 1	1U84	1U78	2U01	2U18	21U44	I I b
NeoO%mAum	15S 1						ql s
NeoO%mAum	15S 2						ql s
NAqkel	6S 2	- 2U12	- - U52	- - U4-	- 2U85	2U54	I I b
PEosI Eorus	- 1 2	- 14SU0-	- - 74U52	- - 55U50	- 276U61	4U14	I I b
Po&assAum	- 7 2	5S84U71	52- 6U18	5142U12	5154U4S	1U48	I I b
CEoOAum	1S- 1				1S5		G
CEoOAum	1S- 2				1S7		G
pqanOAum	45 1				1S8		G
pqanOAum	45 2				1S1		G
pelenAum	82 1	1U2S	1U51	2U54	1U58	26U8-	I I b
pelenAum	00 2	5SU51	- 4U87	- 4U54	- 7U78	22U82	I I b
pelenAum	08 2	4U76	6U5-	7U4	6U74	- 1U74	I I b
pAAqon	28 1	212U8	22- U2	- - 2U2S	255U70	25U88	I I b
pAger	1S0 1	SU4	SU8	SU5-	SU42	2- U56	I I b
pAger	1S7 1	SU6	SU7	SU50	SU44	25U80	I I b
poOAum	2- 2	166U20	101U77	100U88	102U55	- U0	I I b
p&ona&Aum	86 1	14- U7-	152U4S	224U5	10- U56	25U46	I I b
p&ona&Aum	88 1	147U24	161U81	2- 6U67	182U58	25U87	I I b
pulfur	- 4 1	1- 0SU52	14- 5U56	2568U51	08U86		I I b
i erbAum	157 1				1S0		G
i erbAum	157 2				1S0		G
i EallAum	2S- 1	SU S	SU1	SU46	SU6	25U44	I I b
i EallAum	2S5 1	SU1	SU S	SU45	SU5	24U17	I I b
i An	118 1	1U54	1U56	2U80	1U77	- 8U57	I I b
i A&anAum	40 1	1SSU81	1S6U72	155U5S	121U58	24U05	I I b
RranAum	2- 8 1	2U80	2U71	4U47	- U42	26U70	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S1	Dns&umne&Name:9	P8
v lAn&pamI le:D :9	y h SF81	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-19S7	t a&aFAe:Name:9	1- 5c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel -	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	51 2	58U07	50U67	58U47	58U2	SU78	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				112		G
Y&&Aum	87 2				115		G
ZAnq	66 2	- S5U1-	- S- US7	- S0U66	- S5U27	SU05	I I b
ZAqonAum	7S 1	4U04	5U45	0U7-	6US4	20U68	I I b
ZAqonAum	71 1	4U78	5U42	0U08	6US6	24U86	I I b

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LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. J1t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO.9	2S2- S0 12:179-49SJ	t s&s. Ae:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF:RonqF	Ronq5 pt	Un&w
cRmAAum	20 2	14112F14	1- J17FJ6	1- 444F2-	1- 072FSJ	2F4-	l l b
cn&Amonh	121 1	SF04	SF6J	SFJS	SF04	JFS7	l l b
crwenAq	0%2	26F7%	20F%6	26F%0	20FS-	1FJ4	l l b
BsrAum	1- %1	- J%F6%	- 6JF41	- 00F6S	- 00F22	2F27	l l b
BsrAum	1- 0 1	- J4F61	- J2F22	- 0JF70	- J1F74	SF04	l l b
BerhFAum	7 1	1F60	1F66	1F60	1F60	SF- 6	l l b
BAumu&E	2S7 1				111		G
BAumu&E	2S7 2				1SJ		G
BromAne	J1 1						ql w
RsOmAum	1SJ 1	1FJ%	2F- 6	1F7S	2FS4	1- F7S	l l b
RsOmAum	1S6 1	2FS7	SF72	2F%%	SF46		l l b
RsOmAum	111 1	1F47	1F4J	1F- S	1F4-	0F%7	l l b
RsRqAum	4- 1	1J2- SFS7	10J07F16	1JS40F22	1JS%2F16	SF70	l l b
RsRqAum	44 1	17S%SF1-	1J476F0%	1J- 76F%S	1J640F07	1FJ7	l l b
Rsrbon	12 1						ql w
Rsrbon	12 2						ql w
REFrAne	- %1						ql w
REFrAne	- %2						ql w
REromAum	%2 2	2- F61	2- F21	2- F14	2- F- 2	1FS7	l l b
RobsR&	%7 2	10FS0	16FJ7	16F24	16F0-	2F61	l l b
RoI I er	6- 2	J2F- J	JSF- %	07F%.	JSF0%	1FJ1	l l b
t hwI rowAum	1%6 1						ql w
t hwI rowAum	1%6 2						ql w
CrbAum	164 1						ql w
CrbAum	164 2						ql w
HsOoFAum	16S 1						ql w
HsOoFAum	16S 2						ql w
y oFmAum	16%1				112		G
y oFmAum	16%2				1S0		G
DrOAum	11%1				11S		G
DrOAum	11%2				1S1		G
Don	%4 2	4- 261F4-	42J42F%S	4261JF6J	427S0F%.	SF06	l l b
Don	%6 2	42772F4S	4- 121F22	416%4FJ%	42%J7F47	1F71	l l b
Don	%0 2	- 7746F0%	- 702%F- 6	- J467F- %	- 7- JSF4J	2FS2	l l b
KrhI &on	J- 1						ql w
LesO	2S6 1	J0FS1	J4F2J	J4F0%	J%F- %	1F01	l l b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&br:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My S. J1t	t AR&on:. sq&br:9	1
t s&e:T:i Ame:cqduAeO:9	2S2- S0 12:179-49SJ	t s&s. Ae:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el -	cvgF:RonqF	Ronq5pt	Un&w
LesO	2S0 1	J- P%7	J2F76	JSF07	J2F44	1F0J	I I b
LesO	2SJ 1	J%F64	J- FSJ	J2F7-	J- FJ7	1FJ2	I I b
LAEAum	6 1				1S-		G
MsgnewAum	24 2	6016F6-	6664F20	6442F6J	66S0FJ6	2F2S	I I b
Msngsnewe	%%2	7J%FJS	704FJ-	742P%7	760F04	2F- 2	I I b
MoPbOenum	74 1	11F26	11F2J	11F64	11F- 7	1FJ%	I I b
MoPbOenum	7%1	1F6J	1F0J	1FJ-	1F06	4F1J	I I b
MoPbOenum	76 1	2FJ1	2F67	2FJ1	2F00	2F4J	I I b
MoPbOenum	70 1	1FJS	1F6%	1F0J	1F04	4FJ-	I I b
MoPbOenum	7J 1	1FJ2	1F0J	1F07	1FJS	SF76	I I b
NeoOhmAum	1%S 1						ql w
NeoOhmAum	1%S 2						ql w
NAqkeP	6S 2	- 4F22	- 2FJ1	- 1F77	- - FS1	- F42	I I b
8 EowI Eoruw	- 1 2	- - 74P%2	- - 10F7%	- - - 0F6-	- - %SFS4	1F17	I I b
8 o&swwAum	- 7 2	%271F11	%14JF67	%S4JF- %	%162F01	2F- 6	I I b
5 EoOAum	1S- 1				1S7		G
5 EoOAum	1S- 2				1SJ		G
pqsnOAum	4%1				11S		G
pqsnOAum	4%2				77		G
peRenAum	J2 1	1FS6	1F22	1F1S	1F12	0F21	I I b
peRenAum	00 2	- 7F2J	- %F1S	- JF06	- 0F01	6FS4	I I b
peRenAum	0J 2	7F10	7FS4	11F64	7F7%	14F0-	I I b
pARqon	2J 1	242F66	242F- J	2- 7F72	241F6%	SF62	I I b
pARer	1S0 1	SF46	SF44	SF4S	SF44	0F- 6	I I b
pARer	1S7 1	SF4-	SF4%	SF41	SF4-	4F04	I I b
poOAum	2- 2	162P%	16SF07	1%6P%0	1%7F76	1F71	I I b
p&ona&Aum	J6 1	1%JP%6	161F6%	164FS1	161F4S	1F67	I I b
p&ona&Aum	JJ 1	167F07	10SF26	102F61	10SFJ7	SFJJ	I I b
pulPur	- 4 1	11SJFS0	142JF10	144SF02	1- 2%F6%		I I b
i erbAum	1%7 1				111		G
i erbAum	1%7 2				1S0		G
i EsPAum	2S- 1	SF- 2	SF- S	SF- 2	SF- 2	4F21	I I b
i EsPAum	2S%1	SF- 1	SF- S	SF2J	SF- S	%FS6	I I b
i An	11J 1	1F62	1F6-	1F01	1F66	- F12	I I b
i A&snAum	40 1	114FS%	111F46	112F4%	112F6%	1F16	I I b
UrsnAum	2- J 1	- F24	- F17	- F24	- F22	SFJJ	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l ers&or:9	aswl sP
Lsb:psml Re:D :9	3 - 447 S2	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My S. J1t	t Ro&on:. sq&or:9	1
t s&e:T:i Ame:c qduAeO.9	2S2- S0 12:179-49SJ	t s&s. Re:Nsme:9	1- 6c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	%l 2	6SF%J	%7FSJ	%JFS0	%7F24	2F1-	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&&Aum	J7 1				116		G
Y&&Aum	J7 2				112		G
ZAnq	66 2	- 1%F66	- S6F%l	- S1F-6	- S0FJ4	2F-%	l l b
ZAqonAum	7S 1	%F4J	%F%7	%F01	%F6S	2FSJ	l l b
ZAqonAum	71 1	%F%7	%F64	%F42	%F%%	2F1%	l l b

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Inst Id :P8

LBabber Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMavEFoU	vEFo7DT	CFqP
dNer dFqer	23X2	-1J-U00	-222U64	-OJ4UrO	-14-Urn1	2U6m	ttS
dFiqEFy	121X1	OU1-	OU14	OU13	OU1J	1-U04	ttS
dIPpFqp	3JX2	6U4O	6Urn6	6U22	6U40	JU11	ttS
BIlqer	1-JX1	3OU02	3mUOO	30U2J	3JU36	6U61	ttS
BIlqer	1-3X1	31U40	30U61	30U00	33UO-	6U24	ttS
BplyNqer	0X1	OUJ2	OUJ6	OUJ0	OUJ6	0U4m	ttS
BqPreih	2O0X1				112		%
BqPreih	2O0X2				00		%
BIErdFp	m1X1						otP
vlRrqer	1OmX1	OU20	OU23	OU4-	OUJ-	26UJm	ttS
vlRrqer	1O6X1	X4UJ4	X-UJO	X4U62	X4U1J		ttS
vlRrqer	111X1	OU2J	OUJ1	OUJ1	OU20	1-U1J	ttS
vlNqer	4-X1	-4-mU0m	-6J6U01	-3J0U42	-61mU14	4UJ4	ttS
vlNqer	44X1	-4-2U60	-6-2U3m	-3J1U6m	-6OJU32	4U43	ttS
vlISEF	12X1						otP
vlISEF	12X2						otP
vhNEldFp	-JX1						otP
vhNEldFp	-JX2						otP
vhIErqer	J2X2	JUJ4	JU43	JU00	JUJO	-U61	ttS
vESINN	J0X2	-Urn-	-U03	-U63	-Urn2	-U0J	ttS
vEttpl	6-X2	1mUrn4	10U10	1mU44	1mUrn2	2UOO	ttS
TyPtIEPqer	1J6X1						otP
TyPtIEPqer	1J6X2						otP
ISqer	164X1						otP
ISqer	164X2						otP
GlRENqFqer	16OX1						otP
GlRENqFqer	16OX2						otP
9ENNqer	16JX1				112		%
9ENNqer	16JX2				1OO		%
&FRqer	11JX1				114		%
&FRqer	11JX2				0-		%
&EF	J4X2	0O3OU1m	0-44U12	mmJJU3J	0O0OU02	2U60	ttS
&EF	J6X2	06mmU06	000OUrn-	0JOOU0O	0320U0O	2UJO	ttS
&EF	J3X2	0O30U0O	010JUJ2	m3m3U62	0O2OU0J	2UJ-	ttS
KlytiEF	m-X1						otP
LplR	2O6X1	1JUJ6	13U41	13U00	16U00	3U43	ttS

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFallioiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMavEFoU	vEFo7DT	CFqP
LplR	2O3X1	1JU10	16U-m	13U-J	16U-1	6U6-	ttS
LplR	2OmX1	1JUJ2	16Uu3	13U34	16U31	6U6m	ttS
Lqihqer	6X1				1OO		%
HlMFpPqer	24X2	1401U10	1J-0U44	1413U0-	14m2UuJ	4U1-	ttS
HlFMlFpPp	JJX2	221UOO	2-OU4m	22OU24	22-U01	2UJJ	ttS
HENYSRpFer	04X1	2U14	2U-m	2U-3	2U-O	JU36	ttS
HENYSRpFer	0JX1	OU-2	OU40	OU4O	OU4O	22U1-	ttS
HENYSRpFer	06X1	OUJ4	OU66	OU6-	OU61	1OU26	ttS
HENYSRpFer	03X1	OU41	OU42	OU41	OU41	1UOO	ttS
HENYSRpFer	0mX1	OU-J	OU4-	OU44	OU41	11UJ3	ttS
bpERyrqer	1JOX1						otP
bpERyrqer	1JOX2						otP
bqpkpN	6OX2	3U2m	3U06	3U46	3UJ3	4U64	ttS
uhEPthElePP	-1X2	3JJUO2	3O-U6m	J30U2-	630U61	1-U-6	ttS
uEilPPqer	-0X2	116mUJJ	1216UuO	11-0U16	1134Uu4	-U-4	ttS
7hERqer	1O-X1				112		%
7hERqer	1O-X2				0m		%
DolFRqer	4JX1				111		%
DolFRqer	4JX2				0O		%
DpNqFqer	m2X1	OU16	OU2-	XOU11	OUOO	10JU20	ttS
DpNqFqer	33X2	11U3m	3UOO	2OU63	1-U1J	J2U3J	ttS
DpNqFqer	3mX2	2U36	2U43	1U2O	2U1J	-mU64	ttS
DqNqpEF	2mX1	4JUJ2	4mUJ-	JOU0J	4mU-4	JU62	ttS
DqNqpl	1O3X1	OUOm	OU1O	OUOm	OUOO	11UJO	ttS
DqNqpl	1OOX1	OUOO	OUOm	OU11	OUOO	1JU42	ttS
DERqer	2-X2	2muu3	-1U2-	23U-0	20U13	6U64	ttS
DilEFiqer	m6X1	-1U11	-4UOJ	-4U40	--U22	JUJ2	ttS
DilEFiqer	mmX1	-1UO6	--UOO	--Uu1	-2U02	4UOO	ttS
DeNel	-4X1	X-10OU20	X23-mU04	X24m3U-	X2mOJUJ2		ttS
cplSqer	1J0X1				11-		%
cplSqer	1J0X2				06		%
chlNqer	2O-X1	OUOJ	OUO3	OUOO	OUO3	23Uu3	ttS
chlNqer	2OJX1	OUO3	OUOm	OUOm	OUOm	mUOO	ttS
cqF	11mX1	OU2m	OU-0	OU20	OU-2	10U1J	ttS
cqlFqer	43X1	2OU01	2-U-4	2-U62	22U62	6UJ0	ttS
CIlFqer	2-mX1	OUJ3	OU6-	OU63	OU62	3Uu6	ttS

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiabl r pas	um
vNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacq paloneqpRas	2O2-XO3X12al0s-3sO4	Tlil.qNpabl r pas	1-3d7 .UR

ul llr pipl	HlPP	vEF7pt1	vEF7pt2	vEF7pt-	dgMav EFoU	vEFo7DT	CFqP
VlFlRqer	J1X2	1-U3	1-U00	1-U43	1-U61	2U43	ttS
YiiplSqer	132X1						otP
YiiplSqer	132X2						otP
YiiplSqer	136X1						otP
YiiplSqer	136X2						otP
Yiilqer	m0X1				112		%
Yiilqer	m0X2				04		%
ZqFo	66X2	60Um6	32U43	63U03	60UmO	-Um8	ttS
ZqloEFqer	0OX1	1U0m	1U16	1U2O	1U14	JU-O	ttS
ZqloEFqer	01X1	OU0m	1U06	1U1-	1U06	6Um2	ttS

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	14627F78	14480F7h	14010F18	14611F0S	SF07	I I b
c n&Amon%	121 1	18FS-	26F82	22F41	22F42	17F61	I I b
c rsenAq	0h 2	- 4F02	- 4F4h	- 0F22	- hF46	4F- 2	I I b
BarAum	1- h 1	020F4-	1111F- 4	7S0F- 8	71hF- 8	2SF78	I I b
BarAum	1- 0 1	00- F4S	116- F81	767F- 6	768F86	2SF1h	I I b
Ber%lAum	7 1	11Fh7	16F24	12F82	1- Fhh	10F8S	I I b
BAsmu&E	2S7 1				77		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	7Fh8	1- F62	11F22	11F40	10F01	I I b
RaOmAum	1S6 1	hF40	1- F14	0F41	8F60	46FSS	I I b
RaOmAum	111 1	1SF84	16F62	1- F20	1- Fh8	21F- h	I I b
RalqAum	4- 1	16h00F8-	24407F0-	2S2h7F80	2S4- 7F14	17F- h	I I b
RalqAum	44 1	10210F81	2h1ShFS6	2S77- F8-	211ShFh0	18F67	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	66F1-	66F74	66FS8	66F- 8	SF0-	I I b
Robal&	h7 2	128F41	127FSS	1- SF80	127F4-	SF77	I I b
RoI I er	6- 2	128F- 2	1- SFS1	128F- h	128F87	SF0h	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				1SS		G
y olmAum	16h 2				1S0		G
DnOAum	11h 1				77		G
DnOAum	11h 2				77		G
Don	h4 2	4- 827F- 8	42h88F06	4- 4- 8F7h	4- 28hF0S	1F40	I I b
Don	h6 2	421h1F8h	424h6F62	4- SS8F- 1	42h- 8F7-	1FS2	I I b
Don	h0 2	4- S46F07	4- - h6F8S	4- 2S1FSS	4- 2S1Fh-	SF- 6	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	07F41	121Fh7	78F8S	77F7-	21F1-	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
LeaO	2S0 1	06F8-	110F16	74F66	76F22	21FSS	I I b
LeaO	2S8 1	08F28	12SF02	7hF64	78F21	21F0-	I I b
LA&EAum	6 1				71		G
MagnesAum	24 2	66S0F1-	66S1FS-	6022F40	664- Fh4	1FS-	I I b
Manganese	hh 2	1S04F0h	1S0hFh6	1S06F88	1S0hF0-	SF1S	I I b
Mol%bOenum	74 1	7F78	14F82	12F1h	12F- 2	17F60	I I b
Mol%bOenum	7h 1	1Fhh	2F- 0	1F86	1F7-	21F2h	I I b
Mol%bOenum	76 1	2F47	- F6-	2F82	2F78	17F01	I I b
Mol%bOenum	70 1	1Fhh	2F- 1	1F7h	1F74	17F60	I I b
Mol%bOenum	78 1	1Fh-	2F44	1F72	1F76	2- F17	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	1h- F42	1h- F6S	1hhFS2	1h4FS1	SFh0	I I b
PEosI Eorus	- 1 2	- 1hSFh7	- - - 0F4-	- S88F0-	- 172F2h	4FS6	I I b
Po&assAum	- 7 2	h220F24	h28- F77	h- - SF0-	h28SF6h	SF78	I I b
5 EoOAum	1S- 1				70		G
5 EoOAum	1S- 2				1S4		G
pqanOAum	4h 1				77		G
pqanOAum	4h 2				77		G
pelenAum	82 1	17F02	28Fh-	22F01	2- F6h	18F74	I I b
pelenAum	00 2	0hF40	hSF- 2	hSF- 8	h8F02	24F67	I I b
pelenAum	08 2	28F10	28F1h	- SF68	27FSS	hFS1	I I b
pAAqon	28 1	211Fhh	- - 1FS8	204F- S	202F- 1	21F76	I I b
pAver	1S0 1	8FS2	12F22	7F87	1SFS4	2SF70	I I b
pAver	1S7 1	8F11	12F4S	1SF1h	1SF22	21FS1	I I b
poOAum	2- 2	2S6F60	217F40	214F62	21- Fh7	- FS2	I I b
p&ona&um	86 1	140F2-	217F8h	107F- 4	182F14	17F78	I I b
p&ona&um	88 1	1h- F77	227F- 6	188F84	17SF0-	17F08	I I b
pulfur	- 4 1	1870F61	1810F64	- 16F8h	1- 2F20		I I b
i erbAum	1h7 1				1SS		G
i erbAum	1h7 2				1Sh		G
i EallAum	2S- 1	8F1S	12F7S	1SF- 0	1SF46	22F74	I I b
i EallAum	2Sh 1	8F42	12F0h	1SFS7	1SF42	2SF70	I I b
i An	118 1	1F70	2F87	2F2h	2F- 0	17F7S	I I b
i A&anAum	40 1	1S7FS1	1h1F7-	12hF66	128F86	16F07	I I b
UranAum	2- 8 1	- FSh	4F08	- F72	- F72	22FS8	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 81p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:1794S9S0	t a&a. Ae:Name:9	1- 8c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	10- F40	104F4-	102FSS	10- F- S	SF01	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				1S4		G
Y&&Aum	87 2				1S7		G
ZAnq	66 2	42hF16	4- 1Fh0	4- - F6S	4- SF11	1FS2	I I b
ZAqonAum	7S 1	hFS0	0F4h	6FS1	6F18	17F48	I I b
ZAqonAum	71 1	4F7S	0F- 4	6F2-	6F16	17FB6	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PA R&psb I Pr:Dr :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Uo

8sSsb r &S	Hsww	v nREr I 1	v nREr I 2	v nREr I -	cgMJv nRqU	v nRqEpt	CRA&w
c Pmb ARAmb	23X2	23N6U40	2N2- UO-	2N24U16	2N11U2-	OU36	I I e
c R&b nRy	121X1	OU16	OU1	OU1-	OU1	12U63	I I e
c Sw r RAq	3 X2	U44	UN0	U30	U31	4U1	I I e
Bs SAmb	1- X1	N1UN-	30U-	36U -	30U24	- U	I I e
Bs SAmb	1- 3X1	N2UO-	33U2O	36U33	3NU63	- U31	I I e
Br S y PAmb	0X1	OU- 3	OU- 6	OU-	OU-	6U6O	I I e
BAmb m&a	2O0X1				1O6		%
BAmb m&a	2O0X2				1O6		%
BSmb ARr	N1X1						ql w
v sob Amb	1ONX1	OU3O	OU46	OU-	OUO	- U0	I I e
v sob Amb	1O6X1	X- UN	X4U14	X U06	X4U-		I I e
v sob Amb	111X1	OU- O	OU2	OU2	OU23	11U1	I I e
v sRqAmb	4- X1	- N0 U16	- 660U O	- 6N1U02	- 34NUN6	- U- N	I I e
v sRqAmb	44X1	- N04UNO	- 3O- U0O	- 316U04	- 331U N	2UN-	I I e
v sSenR	12X1						ql w
v sSenR	12X2						ql w
v hPnSRr	- X1						ql w
v hPnSRr	- X2						ql w
v hSmb Amb	2X2	4UN2	4UN6	4U3O	4U30	1U31	I I e
v nesR&	0X2	- U4	- U4-	- U4-	- U44	OU- O	I I e
v nI I r S	6- X2	13U4O	13U03	16UN	13U1O	1U6-	I I e
t ywI SnwAmb	1 6X1						ql w
t ywI SnwAmb	1 6X2						ql w
F SeAmb	164X1						ql w
F SeAmb	164X2						ql w
Gson PARAmb	16OX1						ql w
Gson PARAmb	16OX2						ql w
9 nP Amb	16 X1				1O3		%
9 nP Amb	16 X2				1O6		%
DRo Amb	11 X1				1O		%
DRo Amb	11 X2				1OO		%
DSmR	4X2	NO34U41	N101UN4	N- 1 U33	N104U01	1U43	I I e
DSmR	6X2	NN 6U32	N303UN6	N60NU20	N3N4U20	OU01	I I e
DSmR	3X2	N24 U3-	N2- 1UN-	N132U 6	N216U31	OU43	I I e
KSyI &aR	N- X1						ql w
Lr so	2O6X1	1NU- 2	13U4-	13U22	13U66	- U- 1	I I e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PA R&psb I Pr:Dr :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r:cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0c EF. Ud

8sSsb r&S	Hsww	v nREr l 1	v nREr l 2	v nREr l -	cgMJv nRqU	v nRqEpt	CR&w
Lr so	2O3X1	13U23	16UN-	16U3	16U0	1U6-	I l e
Lr so	2ONX1	13U04	13U00	16U0O	13U-1	- U10	I l e
LA&nAmb	6X1				0		%
HsMRr wAmb	24X2	1- - 2U1O	1- 33U13	1- - 6U03	1- 4NU4	1UN	I l e
HsRMsRr w	X2	103U42	2O2UNN	2OOU23	2OOU10	1U-6	I l e
HnPyeor Rmb	04X1	2U N	2U-0	2U10	2U-0	NU21	I l e
HnPyeor Rmb	0 X1	OU4	OU-3	OU4O	OU41	0U32	I l e
HnPyeor Rmb	06X1	OU63	OU6O	OU-0	OU62	6U6-	I l e
HnPyeor Rmb	03X1	OU-0	OU-0	OU-	OU-3	0U3	I l e
HnPyeor Rmb	0NX1	OU41	OU-3	OU4O	OU-0	U2	I l e
ur noyb Amb	1 OX1						ql w
ur noyb Amb	1 OX2						ql w
uAqkr P	6OX2	6UN4	6UNO	6U43	6U31	- UOO	I l e
8hnwl hnSnw	- 1X2	01U3-	646U21	62NU1	622U1	4U43	I l e
8n&swwAmb	- 0X2	1O3 UN6	1O 4U03	1O 4U01	1O61U01	1U14	I l e
EhnoAmb	1O- X1				1O4		%
EhnoAmb	1O- X2				1O3		%
pqsRoAmb	4 X1				1O4		%
pqsRoAmb	4 X2				03		%
pr PRAmb	N2X1	XOU1	OU11	XOU22	XOU21		I l e
pr PRAmb	33X2	4U06	14U14	NU40	0U2O	OU-6	I l e
pr PRAmb	3NX2	2U24	1U40	- U-1	2U-	- NUNO	I l e
pAAqnR	2NX1	2U-0	40U3O	40U1N	OU42	- U42	I l e
pAgr S	1O3X1	OU0N	OU1O	OU00	OU00	1OU04	I l e
pAgr S	1O0X1	OU00	OU1O	OU1O	OU1O	4U-	I l e
pnoAmb	2- X2	10U10	16U00	2OU3O	1NU66	12U61	I l e
pS&nR&Amb	N6X1	- UN2	- 4U4O	- 4UNO	- U01	2U0N	I l e
pS&nR&Amb	NNX1	- 6U14	- 4U20	- 4U-2	- 4U02	- U04	I l e
pmPmS	- 4X1	X22 U34	X23N0U4O	X23 4U04	X26OOU0-		I l e
i r SeAmb	1 0X1				1O6		%
i r SeAmb	1 0X2				1O		%
i hsPAmb	2O- X1	OU1O	OU0N	OU0N	OU00	3U06	I l e
i hsPAmb	2O X1	OU0N	OU0N	OU06	OU0N	14U41	I l e
i AR	11NX1	OU41	OU-2	OU20	OU-4	1NU43	I l e
i A&sRAmb	43X1	2- U42	22U02	2- U24	2- U10	1U1O	I l e
CSsRAmb	2- NX1	OU60	OU6	OU6-	OU66	4U	I l e

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 l r Ss&aSJ	aswl sP
Lse:psb l Pr:D :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
v PR&psb l Pr:D :J	H9 O. N1L	t ARn&nR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0c EF. Uo

8sSsb r &S	Hsww	v nRErl 1	v nRErl 2	v nRErl -	cgMJv nRqU	v nRqEpt	CR&w
VsRsoAmb	1X2	11U0N	12U4	11U0N	12U14	2U24	l l e
Y&&SeAmb	132X1						ql w
Y&&SeAmb	132X2						ql w
Y&&SeAmb	136X1						ql w
Y&&SeAmb	136X2						ql w
Y&&SAmb	N0X1				1O6		%
Y&&SAmb	N0X2				1O-		%
ZARq	66X2	64U1N	6- U12	6- U	6- U61	OUN4	l l e
ZASqnRAmb	0OX1	1U21	1U1-	1U14	1U16	- U6O	l l e
ZASqnRAmb	01X1	1U1-	1UO6	1U21	1U1-	6U-0	l l e

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LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 p t	UnA&s
c lumAnAum	2072	- 6244F4h	- 6186F00	- 66h1F0:	- 6- 61FSS	SF0S	I I b
c n&Amon%	12171	SFh4	SF4S	SF4h	SF46	1hFh-	I I b
c rsenAq	0h72	1SF4:	11F1S	1SF: S	1SF8-	2F80	I I b
BarAum	1- h71	12- F- 4	1S8FSh	1S8Fh6	11- F- 2	0F66	I I b
BarAum	1- 071	12SF: :	11SF0h	1S: F- 1	11- F68	hF6S	I I b
Ber%lAum	: 71	SF60	SFh8	SF61	SF62	0F- 2	I I b
BAsmu&E	2S: 71				1S0		G
BAsmu&E	2S: 72				1S0		G
BromAne	8171						ql s
RaOmAum	1S871	SF: 6	SF2h	SFh0	SF6S	h: F00	I I b
RaOmAum	1S671	71FS:	76F26	7- F6-	7- F66		I I b
RaOmAum	11171	SF4S	SF- S	SF- -	SF- 4	14F0h	I I b
RalqAum	4- 71	14814F- :	1- 228FS4	12: 88F40	1- 606F: 0	0F26	I I b
RalqAum	4471	1h- : : F40	141h2F: h	1- h- hF08	14- 62F04	6F61	I I b
Rarbon	1271						ql s
Rarbon	1272						ql s
REIorAne	- h71						ql s
REIorAne	- h72						ql s
REromAum	h272	02FS:	02F- 0	04F04	0- FS0	1F: :	I I b
Robal&	h: 72	- 2F- 4	- 2F- h	- - F80	- 2F8h	2F68	I I b
Rol I er	6- 72	: : F08	1SSF- 6	1S- F: 0	1S1F- 0	2F24	I I b
t %sI rosAum	1h671						ql s
t %sI rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				1S:		G
KolmAum	16h72				1S0		G
DnOAum	11h71				1Sh		G
DnOAum	11h72				: :		G
Don	h472	6128: F04	6S028F11	62- 2hF44	61440F06	1F- 2	I I b
Don	h672	6S4hSF- 6	6140SF26	61: 0- FS:	612: 0F: S	1F20	I I b
Don	h072	62h84F- 6	610: 0F21	62: 82Fh6	624h4F01	SF: 0	I I b
k r%l &on	8- 71						ql s
LeaO	2S671	1hFSh	14F44	1- F14	14F21	6F80	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	14F: 2	1- F02	12F61	1- F0h	8F41	I I b
LeaO	2S871	1hF10	1- F: -	12F: 8	14FS-	0F8h	I I b
LA&EAum	671				: :		G
MagnesAum	2472	221- - F= S	22- S0Fh1	22h- hF02	22- 2hFh1	SF: S	I I b
Manganese	hh72	11S2FS6	1S82F8-	1122FS0	11S2F= 2	1F08	I I b
Mol%bOenum	: 471	2F: 2	2F: h	2F04	2F80	- F84	I I b
Mol%bOenum	: h71	1FSS	SF84	SF81	SF88	11F42	I I b
Mol%bOenum	: 671	1F18	1F1S	1FSh	1F11	hF86	I I b
Mol%bOenum	: 071	1FS1	SF8:	SF: -	SF: 4	6F2-	I I b
Mol%bOenum	: 871	SF: 2	SF81	SF0h	SF8-	1SF16	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	118FS6	118Fh0	121Fh4	11: F= :	1Fh0	I I b
PEosI Eorus	- 172	2- 46F1:	222: F04	2- 4hF64	2- S0F1:	2F: 1	I I b
Po&assAum	- : 72	1- 8: F22	1- 80F14	144- F18	14S6Fh2	2F26	I I b
5 EoOAum	1S- 71				1Sh		G
5 EoOAum	1S- 72				1Sh		G
pqanOAum	4h71				1S8		G
pqanOAum	4h72				: :		G
pelenAum	8271	SFh4	7SF= -	SF24	SF1h	2: - F: S	I I b
pelenAum	0072	18F10	2SF16	2- F2:	2SFh4	12Fh6	I I b
pelenAum	0872	hF01	4F18	4F0-	4F88	1hF: -	I I b
pAAqon	2871	211FS0	1: SF= 4	18hF: 4	1: hF0:	6F86	I I b
pAver	1S071	SF14	SF1-	SF1-	SF1-	4F41	I I b
pAver	1S: 71	SF1h	SF11	SF14	SF1-	16FS:	I I b
poOAum	2- 72	0- 8F88	0- 1F: 4	00hF14	048F6h	- F1S	I I b
p&onA&um	8671	86F0h	8- F22	81F: :	8- F: :	2F: h	I I b
p&onA&um	8871	88FSS	81F48	0: F28	82F: 2	hF40	I I b
pulVur	- 471	718S4F1:	72: - 8F0S	7- S2SF2-	72h80F01		I I b
i erbAum	1h: 71				1S:		G
i erbAum	1h: 72				1S6		G
i EallAum	2S- 71	SF1-	SF12	SF1S	SF12	1- F80	I I b
i EallAum	2Sh71	SF1-	SF1S	SF11	SF11	1- Fh6	I I b
i An	11871	1FS-	SF: h	SF00	SF: 2	14F68	I I b
i A&anAum	4071	44- F8h	4S2FS:	- : hF0:	41- F: 1	6F= 1	I I b
UranAum	2- 871	SFh-	SFhS	SF48	SFhS	hF6-	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S1	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc 8S	t Au&on . aq&or 9	1
t a&e T i Ane c qduAeO 9	2S2- 7S0712 1: 9469S6	t a&a. Ae Name 9	14Sc 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	111F26	11SF01	112F:	111F6h	1FS6	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				1S:		G
Y&&Aum	8: 72				1S4		G
ZAnq	6672	1- 1F0h	1- 1F01	14SF28	1- 4Fh8	- F60	l l b
ZAqonAum	: S71	1F2h	1F2h	1F16	1F22	4F h	l l b
ZAqonAum	: 171	1F16	1F1-	1FS0	1F12	- F88	l l b

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Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame cqduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	cvgFRonqF	Ronq5 pt	UnA&s
clumAnAum	2072	- 816hFS8	- 66: 4F: S	- 81- 1F26	- 066- F0h	2F2-	l l b
cn&Amon%	12171	SFh-	SFh4	SF48	SFh2	hF66	l l b
crsenAq	0h72	41F1:	- 6F- -	- 0F: 4	- 8F48	6F4-	l l b
BarAum	1- h71	1h6F11	1h6F18	1h8F10	1h6FB2	SF0h	l l b
BarAum	1- 071	1h6F61	1h8F- S	16- F20	1h: F- :	2F10	l l b
Ber%lAum	: 71	SF66	SF64	SF68	SF66	2F6-	l l b
BAsmu&E	2S: 71				1S:		G
BAsmu&E	2S: 72				1S8		G
BromAne	8171						ql s
RaOmAum	1S871	SF4S	SF40	SFhh	SF40	1hF6:	l l b
RaOmAum	1S671	76F04	76F1h	7hFB2	76F24		l l b
RaOmAum	11171	SF2:	SF- 4	SF28	SF- S	1SFB:	l l b
RalqAum	4- 71	h00hF4S	h846Fh6	h: 81Fh2	h860FB2	1F08	l l b
RalqAum	4471	61ShF- 4	6- 0- F18	6- 2- F02	6260F41	2F20	l l b
Rarbon	1271						ql s
Rarbon	1272						ql s
RElorAne	- h71						ql s
RElorAne	- h72						ql s
REromAum	h272	01F10	0SF0:	02FSS	01F- 2	SFB0	l l b
Robal&	h: 72	2hF44	2hF12	2hF: 6	2hFh1	1F60	l l b
Rol l er	6- 72	: - F0S	: 1F0-	: hFh:	: - F60	2FS6	l l b
t %sl rosAum	1h671						ql s
t %sl rosAum	1h672						ql s
CrbAum	16471						ql s
CrbAum	16472						ql s
HaOolAnAum	16S71						ql s
HaOolAnAum	16S72						ql s
KolmAum	16h71				112		G
KolmAum	16h72				1S8		G
DnOAum	11h71				1S:		G
DnOAum	11h72				1S1		G
Don	h472	h16: 0F20	h16: hF: h	h- 20: F- -	h2224F18	1F0h	l l b
Don	h672	h110SF06	hS220Fh1	h2S: 2F00	h116- F68	1FB2	l l b
Don	h072	h2- - hF20	h2261FSS	h4244FS6	h2: 46F08	2F12	l l b
kr%l &on	8- 71						ql s
LeaO	2S671	2: F2S	2: F46	2: F20	2: F- 1	SF46	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 I era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RIAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
LeaO	2S071	20F81	28F4:	28F2h	28F18	1F2-	I I b
LeaO	2S871	28F62	28F61	28F- 8	28Fh4	SF40	I I b
LA&EAum	671				1S1		G
MagnesAum	2472	1h066F- 8	1h- 1: F8-	1h0h2F- :	1h612F80	1F6-	I I b
Manganese	hh72	: 22F. 8	: 1- F2-	: 44F0-	: 26F. 8	1F04	I I b
Mol%bOenum	: 471	1F. S	2F18	2F12	2FS0	0F14	I I b
Mol%bOenum	: h71	SF88	1FS8	1FS:	1FS2	12FSS	I I b
Mol%bOenum	: 671	1FS1	1F- 1	1F24	1F18	1- F- 0	I I b
Mol%bOenum	: 071	1FS2	1F1-	SF. 4	1FS-	: F22	I I b
Mol%bOenum	: 871	SF8:	1FS4	1F12	1FS2	11F06	I I b
NeoO%mAum	1hS71						ql s
NeoO%mAum	1hS72						ql s
NAqf el	6S72	86F0-	86F1:	80F8-	86F. 2	SF. 6	I I b
PEosI Eorus	- 172	8- 2F- 0	026F2:	: : 0Fh2	8h2FS6	16FS4	I I b
Po&assAum	- : 72	12hSF22	11: 0F4h	12- 6F. 1	1228F2S	2F2-	I I b
5 EoOAum	1S- 71				1S8		G
5 EoOAum	1S- 72				1S0		G
pqanOAum	4h71				11S		G
pqanOAum	4h72				1SS		G
pelenAum	8271	SF26	7SF16	7SF24	7SFS4		I I b
pelenAum	0072	: F06	11F48	1- F- -	11Fh-	1hF4:	I I b
pelenAum	0872	1Fh2	2F1h	1F01	1F0:	18FS1	I I b
pAAqon	2871	206Fh6	28SF. 4	284F61	28SF0S	1F44	I I b
pAver	1S071	SF22	SF2-	SF22	SF22	1Fh:	I I b
pAver	1S: 71	SF18	SF2h	SF22	SF22	10F40	I I b
poOAum	2- 72	h- : F- h	h4SF88	h61F0-	h40F- 2	2F28	I I b
p&ona&um	8671	4- FS8	4hFh2	46F. 2	4hF10	4F- S	I I b
p&ona&um	8871	4- F84	44F2S	4hF. 2	44F6h	2F4:	I I b
pulVur	- 471	7- - 1: FS0	7- 200F2-	7- S: 0F66	7- 2- 1F- 2		I I b
i erbAum	1h: 71				112		G
i erbAum	1h: 72				1S0		G
i EallAum	2S- 71	SF16	SF16	SF16	SF16	SF- 6	I I b
i EallAum	2Sh71	SF1h	SF16	SF16	SF16	hFSS	I I b
i An	11871	1FhS	1Fh1	1F- 0	1F46	hF48	I I b
i A&anAum	4071	h2: F0S	h- 1F24	h42F8:	h- 4F61	1F- h	I I b
UranAum	2- 871	1F- h	1F- 8	1F- -	1F- h	1F0:	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number 9	LB1264S0	3 l era&or 9	Jaswal
Lab pamI le D 9	3 - 4- - 7S2	Dns&umne&Name 9	P8
RlAen&pamI le D 9	MJyc : S	t Au&on . aq&or 9	1
t a&e T i Ame c qduAeO 9	2S2- 7S0712 1: 94: 9S1	t a&a. Ae Name 9	141c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgFRonqF	Ronq5 pt	UnA&s
yanaOAum	h172	: 8F5:	: 0F4-	1S1F4-	: 8F: 8	2F16	l l b
Y&erbAum	10271						ql s
Y&erbAum	10272						ql s
Y&erbAum	10671						ql s
Y&erbAum	10672						ql s
Y&&Aum	8: 71				111		G
Y&&Aum	8: 72				1S0		G
ZAnq	6672	1- SF20	128F20	1- - FS0	1- SFh4	1F8h	l l b
ZAqonAum	: S71	SF04	SF01	SF0h	SF0-	2F0h	l l b
ZAqonAum	: 171	SF01	SF02	SF0-	SF02	1F64	l l b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pr 5Tl sb DPP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdPP u sb r 9	142qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
qPmb c5cmb	2072	2N- : 6UN4	206S- U6	2N- 01US:	2N12- U06	1U6S	DDe
q5Tb n5%	12171	SU1J	SU1N	SU1N	SU10	1SU1-	DDe
qpwr 5cd	0J72	2- U6S	2- UJ-	2- US-	2- U:	1U-	DDe
Bspcmb	1- J71	N6U06	N6US6	N: U2N	N0U0	1U4	DDe
Bspcmb	1- 071	NNU4N	NNU2J	: SU24	NNU:	1U22	DDe
Br p%PPmb	: 71	SU4-	SU42	SU42	SU42	1U60	DDe
Bcvb mTE	2S: 71				1S:		G
Bcvb mTE	2S: 72				1SN		G
Bpmb c5r	N171						dDw
v sob cmb	1SN71	SU1:	SU4S	SU4	SU1	- JU J	DDe
v sob cmb	1S671	74U00	76U1J	7JUJJ	7JU4:		DDe
v sob cmb	11171	SUS:	SU11	SU1-	SU11	16UN4	DDe
v sPdcmb	4- 71	2606U2N	264SUN4	2614U-	264- UN2	1U1N	DDe
v sPdcmb	4471	2664U26	2644U0:	2610U2J	2642U1S	SUN:	DDe
v spen5	1271						dDw
v spen5	1272						dDw
v EPhpc5r	- J71						dDw
v EPhpc5r	- J72						dDw
v Epmb cmb	J272	42U02	42U2S	4- U0	42U06	1U0	DDe
v nesPT	J: 72	16U6	16U12	16U61	16U6	1UJ2	DDe
v nDDr p	6- 72	J6U0	JJU0N	J0U26	J6U40	1U2	DDe
&%wDpnwcmb	1J671						dDw
&%wDpnwcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
HsonP5cmb	16S71						dDw
HsonP5cmb	16S72						dDw
KnPb cmb	16J71				111		G
KnPb cmb	16J72				1S0		G
t5ocmb	11J71				11S		G
t5ocmb	11J72				: :		G
tpn5	J472	- : - J6UJ-	- : 0: - US	- : : S6UJ1	- : 6NJU6J	SU0-	DDe
tpn5	J672	- : - 42US6	- : J22U2N	- : 44SUS6	- : 4- 4UNS	SU2-	DDe
tpn5	J072	- 6012U6-	- 6N10U02	- 6: - 0U01	- 6N22U6:	SU1	DDe
kp%DTn5	N- 71						dDw
Lr so	2S671	6US1	JUN:	6US0	JU:	1U4:	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DPP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmqpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdPP u sb r 9	142qC. Fub

8 spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
Lr so	2S071	JUJ:	JU61	JUN-	JU6N	2UJ J	DDe
Lr so	2SN71	JUN2	JU60	JUN:	JUNS	1UJ N	DDe
LdTEcmb	671				1S1		G
y sM5r wcmb	2472	11200U24	11SN- U11	1112- U6:	11161UJ J	SUJ 2	DDe
y s5Ms5r wr	JJ72	0SJUS6	6: 6U2S	6: NU62	6: : UJ 6	SU6J	DDe
y nP%eor 5mb	: 471	- UJ 2	2UJ N	- US2	- U11	6US6	DDe
y nP%eor 5mb	: J71	SUN6	SUN:	SUN0	SUN0	1U46	DDe
y nP%eor 5mb	: 671	1U1:	1U14	1U22	1U1N	- U41	DDe
y nP%eor 5mb	: 071	SUJ 0	SUN-	SUN:	SUJ S	0U4S	DDe
y nP%eor 5mb	: N71	SUJ J	SUNU	SUN:	SUJ S	JU2N	DDe
u r no%b cmb	1JS71						dDw
u r no%b cmb	1JS72						dDw
u cdf r P	6S72	6SUSJ	6SU6N	61UJ S	6SU6N	1US-	DDe
8 EnwDEnpmw	- 172	6S- U01	J0- U60	60SUJ 1	616US:	NUSN	DDe
8 nTswwcmb	- : 72	J0SUNS	J4SUS0	J01UJ N	J6SU0J	- U1:	DDe
CEnocmb	1S- 71				1S:		G
CEnocmb	1S- 72				1SJ		G
I ds5ocmb	4J71				11S		G
I ds5ocmb	4J72				: N		G
I r P 5cmb	N271	7SU42	7SUS:	SUS2	7SU16		DDe
I r P 5cmb	0072	4US-	4U12	NU6-	JUJ:	40US6	DDe
I r P 5cmb	0N72	SUN4	1U1S	1UN-	1U26	4SUJ:	DDe
I dcdn5	2N71	21JU14	2S: UJJ	2S6UJ4	21SU41	2USN	DDe
I dgr p	1S071	SUSN	SUSN	SUS:	SUSN	4U2N	DDe
I dgr p	1S: 71	SUS0	SUSN	SUSN	SUSN	6UN6	DDe
I nocmb	2- 72	1- JU40	1- 2US1	1- NUNN	1- JU46	2UJ4	DDe
I Tpn5Tcmb	N671	14UJ1	14UJ4	1JU11	14U02	2U2:	DDe
I Tpn5Tcmb	NN71	14U42	14U64	14U64	14UJ0	SUN6	DDe
I mPVmp	- 471	7- 004U1S	7- : S4USJ	7- : : NUJ :	7- N: 2UJ N		DDe
Ar pecmb	1J: 71				111		G
Ar pecmb	1J: 72				1SJ		G
AEs PRcmb	2S- 71	SU11	SU11	SU12	SU11	6UJ 4	DDe
AEs PRcmb	2SJ71	SUS:	SUS:	SU1S	SU1S	- UJN	DDe
Ad5	11N71	SU2:	SU24	SU20	SU20	: U1J	DDe
AdS5cmb	4071	4N2UJ6	460UNS	46: U1-	40- U16	1U0-	DDe
Rps5cmb	2- N71	SUJN	SUJN	SU6S	SUJ:	2US:	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p9	LB1264S0	3 Dr psTnp9	aswl sP
Lse l sb DPP t& 9	3 - 4- - 7S-	t5wTpmb 5r Tu sb r 9	8 N
v Pt 5Tl sb DPP t& 9	y ahq : 1	&dPmTcn5 FsdTnp9	1
&sTr i Adb r qdOmpr o 9	2S2- 7S0712 1: 9J29S1	&sTsFdP u sb r 9	142qC. Fub

8 sp sb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dTw
hs5soomb	J172	6NJJ	6: U12	0SU2N	6: U2	1U20	DDe
YTTr peomb	10271						dDw
YTTr peomb	10272						dDw
YTTr peomb	10671						dDw
YTTr peomb	10672						dDw
YTTpomb	N: 71				11S		G
YTTpomb	N: 72				1S1		G
Zd5d	6672	66UNN	66U14	60U6-	66UNN	1U11	DDe
Zqpdn5omb	: S71	1U4	1U2-	1U20	1U2N	- U6	DDe
Zqpdn5omb	: 171	1U:	1U21	1U2S	1U20	NJJ-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DP:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DP:t&:J	y h SFS1	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdP:u sb r :J	14- q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gM:v n5dU	v n5dCI &	R5dTw
q Pmb d5cmb	20 2	4249U24	4220UN0	422SUN0	42- 2U66	SU-7	DDe
q 5Tb n5%	121 1	SU47	SU41	SU4-	SU4-	4U77	DDe
q pwr 5cd	07 2	0U26	6UN2	6U69	6U9-	4U29	DDe
Bspcmb	1- 7 1	141U79	14- U91	142US1	142U7S	SUN0	DDe
Bspcmb	1- 0 1	1- 9U46	144UN-	1- 9U76	141U2N	2U10	DDe
Br p%PRmb	9 1	1U1N	1U21	1U17	1U1N	2U91	DDe
Bcwb mTE	2S9 1				1S4		G
Bcwb mTE	2S9 2				1SN		G
Bpmb d5r	N1 1						dDw
v sob cmb	1SN 1	SU-6	SU49	SU79	SU4N	2- U77	DDe
v sob cmb	1S6 1	4U24	- U77	2U66	- U4N		DDe
v sob cmb	111 1	SU-1	SU29	SU2S	SU20	21U69	DDe
v sPdcmb	4- 1	2S0S- U7N	2144- USN	2S- 67US-	2SN- 0U2-	2U67	DDe
v sPdcmb	44 1	2160SU40	22444US2	212SSU21	21001U70	2UNN	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpd5r	- 7 1						dDw
v EPhpd5r	- 7 2						dDw
v Epmb cmb	72 2	14U96	14U47	14U1N	14U7-	2U07	DDe
v nesPT	79 2	- U71	- U67	- U67	- U6S	2U20	DDe
v nDDr p	6- 2	9U61	9U44	9U20	9U44	1UN1	DDe
&%wDpnwcmb	176 1						dDw
&%wDpnwcmb	176 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	167 1				1S6		G
h nPb cmb	167 2				1SN		G
t5ocmb	117 1				1S4		G
t5ocmb	117 2				1S2		G
tpn5	74 2	120NNU29	1201- U46	1269- UN0	120- 1UNN	SU-9	DDe
tpn5	76 2	1- 066U22	1- 776U6N	1- 7- 0UNN	1- 62SU26	SU9-	DDe
tpn5	70 2	12001U6S	127- NU29	12402U0N	12794U22	1U27	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	2- U2S	24U91	22UN4	2- U67	4U6N	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPP:t&:J	y h SFS1	&dPmTm5:FsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPP:u sb r :J	14- qC. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCI &	R5dTw
Lr so	2S0 1	22U14	2- U1S	21U66	22UJS	- U2N	DDe
Lr so	2SN 1	22U0-	2- UN6	22U22	22U94	- U67	DDe
LdTEomb	6 1				96		G
y sM5r womb	24 2	6S67U11	79- SU4N	6S2SU6-	6SS7U41	1U14	DDe
y s5Ms5r wr	77 2	447UN4	44- U12	44SUJ4	44- U1S	SU62	DDe
y nP%eor 5mb	94 1	6U61	6U06	6U7S	6U62	1U9-	DDe
y nP%eor 5mb	97 1	1UJN	1U44	1U4-	1U42	2U19	DDe
y nP%eor 5mb	96 1	1U91	1U90	1UN6	1U91	2UN6	DDe
y nP%eor 5mb	90 1	1U7S	1U7S	1U46	1U49	1U2-	DDe
y nP%eor 5mb	9N 1	1UJN	1U42	1U41	1U4S	1U6N	DDe
u r no%b omb	17S 1						dDw
u r no%b omb	17S 2						dDw
u dkr P	6S 2	6U17	6U01	6U69	6U72	4UN1	DDe
8 EnwDEnpmw	- 1 2	719U1-	4- NU9S	7S6U9-	4NNUJ2	NUN7	DDe
8 nTswwomb	- 9 2	1NS4U44	1066UJ-	1062U79	1000U09	1UJS	DDe
CEnoomb	1S- 1				1S-		G
CEnoomb	1S- 2				1SN		G
I ds5oomb	47 1				1S2		G
I ds5oomb	47 2				1SS		G
I r P5omb	N2 1	SU4S	SU20	SU1-	SU26	7SU67	DDe
I r P5omb	00 2	- 4UN7	29UN-	- 1UN1	- 2U10	0UN6	DDe
I r P5omb	0N 2	7U29	6U11	4US6	7U17	19U96	DDe
I dPdn5	2N 1	121U40	12- U06	110U70	12SU94	2U79	DDe
I dPgr p	1S0 1	SU11	SU11	SU14	SU12	12U29	DDe
I dPgr p	1S9 1	SU14	SU1-	SU1S	SU1-	17U9S	DDe
I nomb	2- 2	1S9UN7	1SNU70	1S4U92	1S0U0N	2UJN	DDe
I Tpm5Tomb	N6 1	4- U76	4- U76	4- U02	4- U61	SU21	DDe
I Tpm5Tomb	NN 1	42UN1	44U2S	4- U11	4- UJ0	1U69	DDe
I mPmp	- 4 1	2742UJ7	10S6U26	1606UN6	1907U16		DDe
Ar pemb	179 1				1S7		G
Ar pemb	179 2				1S0		G
AEs PPmb	2S- 1	SU2S	SU19	SU14	SU1N	16U42	DDe
AEs PPmb	2S7 1	SU10	SU19	SU17	SU10	12US7	DDe
Ad5	11N 1	1U4-	1U72	1U72	1U49	- U7N	DDe
AdS5omb	40 1	- 4SU26	- 7SU17	- - 1UN2	- 4SU04	2U69	DDe
Rps5omb	2- N 1	1UJN	1U49	1U4S	1U4-	4U17	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 47S S1	t5wTpmb 5r Tu sb r :J	8 N
v Pr 5TI sb DPr:t&:J	y h SFS1	&dPmTcn5:FsdTnpJ	1
&sTr:i :Adb r :qdOmpr o:J	2S2- S0 12:19J77J-6	&sTsFdPr:u sb r :J	14- q C. Fub

8 sps b r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCI &	R5dTw
Vs5soomb	71 2	14U69	14UN7	14U20	14U6S	2US4	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N9 1				1SN		G
YTTpomb	N9 2				11S		G
Zc5d	66 2	1S9U07	1S6U-N	1S- U61	1S6U7N	2UN9	DDe
Zqpdn5omb	9S 1	- US9	- U26	- US6	- U1-	- U44	DDe
Zqpdn5omb	91 1	- US0	- U14	- US6	- US9	1U71	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 47S S2	t5l Tpmb 5r T.u wb r :J	Na
v 8r 5Tl wb D8 :t&:.J	y h SFS7	&8mTm5:FwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :u wb r :J	144qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
q8mb d5cmb	20 2	4S97Ua2	4S- aU00	4477U-4	4196U64	7U-a	DDe
q5Tb n5%	121 1	SU-1	SU-	SU-a	SU-4	11U14	DDe
qpl r 5cd	07 2	6US9	7U4a	0U16	6U24	1- U7a	DDe
Bwpcmb	1- 7 1	1- SU96	1- 6Ua2	142U-	1- 6U0S	4U16	DDe
Bwpcmb	1- 0 1	1- 1U2-	1- 9U-	144U16	1- aU24	4U0-	DDe
Br p%8mb	9 1	1U21	1U21	1U-1	1U24	4U00	DDe
Bdb mTE	2S9 1				117		G
Bdb mTE	2S9 2				1S7		G
Bpmb d5r	a1 1						dDl
v wob cmb	1Sa 1	SU46	SU77	SU71	SU71	aU76	DDe
v wob cmb	1S6 1	4U60	1Ua0	- U69	- U41		DDe
v wob cmb	111 1	SU16	SU19	SU26	SU2S	24U49	DDe
v w8dcmb	4- 1	2- 626U-2	2- aa0U94	24a92U66	241- 7U64	2U00	DDe
v w8dcmb	44 1	24160U69	27S66U04	27aa6U46	27S4SU-S	- U4-	DDe
v wpen5	12 1						dDl
v wpen5	12 2						dDl
v E8hpd5r	- 7 1						dDl
v E8hpd5r	- 7 2						dDl
v Epmb cmb	72 2	14Ua0	14Ua7	16U17	17U29	4Uaa	DDe
v new8T	79 2	- U04	- U00	4US4	- Ua7	4U-0	DDe
v nDDr p	6- 2	9U1a	9U16	1SU24	9U7-	6U49	DDe
&%Dpnl cmb	176 1						dDl
&%Dpnl cmb	176 2						dDl
. pecmb	164 1						dDl
. pecmb	164 2						dDl
Hwon85cmb	16S 1						dDl
Hwon85cmb	16S 2						dDl
h n8b cmb	167 1				117		G
h n8b cmb	167 2				1S0		G
t5ocmb	117 1				114		G
t5ocmb	117 2				1SS		G
tpm5	74 2	12S76U0S	1190- U47	1- S79U19	12- 6- U11	4Ua9	DDe
tpm5	76 2	12a01U60	12a77US-	1- 946U19	1- 224U-S	4U0-	DDe
tpm5	70 2	1196SU-6	11979U94	1291aUS6	12209U46	4U7S	DDe
Kp%DTn5	a- 1						dDl
Lr wo	2S6 1	2SU-a	2SU26	22U76	21US0	6U1-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 47S S2	t5l Tpmb 5r Tuwb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFS7	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :uwb r :J	144qC. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgMJv n5dU	v n5dCl &	R5dT
Lr wo	2S0 1	1aU19	1aU6a	2SU47	19U11	6U21	DDe
Lr wo	2Sa 1	19U4a	19U69	21U47	2SU21	7U4	DDe
LdEomb	6 1				1S2		G
y wW5r l omb	24 2	666- U2-	67a4U1S	01a0USS	6a11U44	4Ua1	DDe
y w5Mw5r l r	77 2	49aU20	7SSU47	742U02	71- Ua1	4Uaa	DDe
y n8%eor 5mb	94 1	7U-	7U26	7U76	7U9	2Ua9	DDe
y n8%eor 5mb	97 1	SU97	SU9-	1US1	SU96	4U41	DDe
y n8%eor 5mb	96 1	1U4-	1U44	1U2	1U4S	4U69	DDe
y n8%eor 5mb	90 1	SU99	SU94	1US4	SU99	4U69	DDe
y n8%eor 5mb	9a 1	SU90	1US4	SU9-	SU9a	7U61	DDe
u r no%b omb	17S 1						dDl
u r no%b omb	17S 2						dDl
u dkr 8	6S 2	6U6	6U11	6U96	6U4a	6UaS	DDe
NEnl DEnpm	- 1 2	7- SU04	469U6	7S9U94	7S- U7	6U2S	DDe
NnTwl omb	- 9 2	10- - U69	100SUa7	1949Ua0	1a1aU14	6U6	DDe
CEnoomb	1S- 1				114		G
CEnoomb	1S- 2				1S6		G
l dw5oomb	47 1				117		G
l dw5oomb	47 2				9a		G
l r 8 5omb	a2 1	SUS1	SU44	SUS	SU24	96US1	DDe
l r 8 5omb	00 2	29US0	2aU24	- 9U19	- 2U10	1aU97	DDe
l r 8 5omb	0a 2	6U91	4US7	0U91	6U29	- 1Ua7	DDe
l 8dn5	2a 1	116Ua2	11aU92	124U01	12SU17	- U4S	DDe
l 8gr p	1S0 1	SUSa	SU1S	SU1S	SUS9	14US-	DDe
l 8gr p	1S9 1	SUSa	SU1S	SUSa	SUS9	1- U1	DDe
l nomb	2- 2	11SU1	11aUS9	127U1	110U9S	6U6	DDe
l Tpn5Tomb	a6 1	4- Uaa	47U6-	46Uaa	47U40	- U1	DDe
l Tpn5Tomb	aa 1	44U29	47Ua1	46U9-	47U6a	2U9S	DDe
l m8mp	- 4 1	26a9US	2060U24	2174U7-	27- 0US-		DDe
Ar peomb	179 1				116		G
Ar peomb	179 2				1S6		G
AEw8omb	2S- 1	SU17	SU17	SU10	SU16	6U29	DDe
AEw8omb	2S7 1	SU10	SU14	SU10	SU16	9US	DDe
Ad5	11a 1	6US-	6U2	6U0-	6U6	7U7-	DDe
AdTw5omb	40 1	2a- U7	2a9U11	29aU24	29SU2-	2U79	DDe
Rpw5omb	2- a 1	1U2	1U41	1U4a	1U4S	7Ua-	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:u mb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 47S S2	t5l Tpmb 5r Tu wb r :J	Na
v 8r 5Tl wb D8 :t&:J	y h SFS7	&8mTm5:FwdTnpJ	1
&wTr :i :Adb r :q dOmpr o:J	2S2- S0 12:19J7aJ-0	&wTwFd8 :u wb r :J	144q C. Fub

Nwpwb r Tr p	y wl l	v n5Cr D1	v n5Cr D2	v n5Cr D-	q gMJv n5dU	v n5dCl &	R5dT
Vw5wocmb	71 2	14U7	14U47	17U6	14U02	- U09	DDe
YTTr pecmb	102 1						dDl
YTTr pecmb	102 2						dDl
YTTr pecmb	106 1						dDl
YTTr pecmb	106 2						dDl
YTTpcmb	a9 1				11a		G
YTTpcmb	a9 2				11S		G
Zc5d	66 2	a1U S	a1U61	a0U47	a- U79	4U42	DDe
Zqcdn5cmb	9S 1	2U49	2U76	2U66	2U70	- U4-	DDe
Zqcdn5cmb	91 1	2U29	2U0S	2U0-	2U70	9U01	DDe

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	12S7F24	1111F- -	1104F72	116- F0S	4F11	I I b
c n&Amonh	121 1	SFS0	SFS8	SF1S	SFS8	21F47	I I b
c rsenAq	07 2	2F- 8	2FS-	2FS%	2F10	8F48	I I b
BarAum	1- 7 1	- 2F02	- 4F72	- 2F46	- - F2-	- F- 0	I I b
BarAum	1- 0 1	- - F24	- - F00	- - F20	- - F4-	SP%S	I I b
BerhlIAum	%1	SF44	SF47	SF48	SF47	4F- S	I I b
BAsmu&E	2S%1				11-		G
BAsmu&E	2S%2				%0		G
BromAne	81 1						ql s
RaOmAum	1S8 1	SFSS	SF4-	SFS4	SF16	171F80	I I b
RaOmAum	1S6 1	2F84	4FS7	- F28	- F- %		I I b
RaOmAum	111 1	SFS0	SFS-	SFS8	SFS6	- %F- %	I I b
RalqAum	4- 1	0241P%7	0- S1F- 2	020SF0-	0201F- -	SF41	I I b
RalqAum	44 1	0767F7S	006- F- 6	00S1F71	0606F0%	1F- 2	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
RElorAne	- 7 1						ql s
RElorAne	- 7 2						ql s
REromAum	72 2	2FS6	1F10	1F- 4	1F72	- 1F10	I I b
Robal&	7%2	1FS-	SP%2	1FS7	1FSS	0F28	I I b
Rol I er	6- 2	2F47	2F- -	2F47	2F41	2P%7	I I b
t hsI rosAum	176 1						ql s
t hsI rosAum	176 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	167 1				117		G
y olmAum	167 2				%0		G
DnOAum	117 1				116		G
DnOAum	117 2				%2		G
Don	74 2	4684F67	4- %2F- 7	4677F8-	4700F61	- F72	I I b
Don	76 2	7107F16	4021F2%	4% 1P%7	4%42F8S	4F6S	I I b
Don	70 2	4676P%6	4- 28F17	470SF86	4718F66	- F00	I I b
Krhl &on	8- 1						ql s
LeaO	2S6 1	4F1S	4F12	4F2S	4F14	1F18	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	- F6%	- F8-	- F81	- F08	1P%%	I I b
LeaO	2S8 1	- P%4	4FS1	4FSS	- P%8	SF8%	I I b
LA&EAum	6 1				%%		G
MagnesAum	24 2	2S48F- -	1867P%7	2S16F6-	1%06P%0	4P%.	I I b
Manganese	77 2	288F8%	262F4%	200F60	206F- 7	4F0%	I I b
MolhbOenum	%4 1	1F6-	1F87	1P%8	1F82	%P%6	I I b
MolhbOenum	%7 1	SF71	SF74	SF76	SF74	4F4S	I I b
MolhbOenum	%6 1	SF70	SF78	SF6S	SF78	2P%0	I I b
MolhbOenum	%0 1	SF48	SF47	SF46	SF46	2P%2	I I b
MolhbOenum	%8 1	SF40	SF4%	SF48	SF48	- FS1	I I b
NeoOhmAum	17S 1						ql s
NeoOhmAum	17S 2						ql s
NAqkel	6S 2	1F24	1F24	1F- 0	1F28	7F87	I I b
PEosI Eorus	- 1 2	1SSF07	110F20	1S4F17	1S0F- %	8F12	I I b
Po&assAum	- %2	7SSF42	4- 4F- S	402P%S	46%F2S	0FS8	I I b
5 EoOAum	1S- 1				117		G
5 EoOAum	1S- 2				%0		G
pqanOAum	47 1				11-		G
pqanOAum	47 2				8%		G
pelenAum	82 1	SFS6	SF7-	SF1S	SF1%	161F01	I I b
pelenAum	00 2	%F7%	0F44	14F16	1SF4S	- - FSS	I I b
pelenAum	08 2	1F02	1P%S	1F72	1F02	11F14	I I b
pAAqon	28 1	40F1-	46P%4	46P%7	40FS1	SF2-	I I b
pAver	1S0 1	SFS4	SFS-	SFS-	SFS4	2SF84	I I b
pAver	1S%1	SFS-	SFS-	SFS-	SFS-	6P%8	I I b
poOAum	2- 2	1S6F62	88F77	%. F42	%6F2S	%F02	I I b
p&ona&um	86 1	%F8%	1SF8%	1SF- 1	1SF- 6	4F80	I I b
p&ona&um	88 1	1SF2%	1SF7S	1SF24	1SF- 4	1F- 4	I I b
pulfur	- 4 1	1%62F6%	2S27F- 6	1%. 6F2-	1%04F06		I I b
i erbAum	17%1				114		G
i erbAum	17%2				%7		G
i EallAum	2S- 1	SFS7	SFS7	SFS-	SFS4	- 6FS0	I I b
i EallAum	2S7 1	SFS4	SFS4	SFS7	SFS4	16F14	I I b
i An	118 1	SF2%	SF20	SF24	SF26	%F0S	I I b
i A&anAum	40 1	01F11	0- F04	0- F18	02F68	1P%S	I I b
UranAum	2- 8 1	SF47	SF48	SF46	SF46	- F16	I I b

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Lab:pamI le:D :9	3 - 47S S-	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. S6	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S19-6	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	71 2	- F27	2F82	- F- 4	- F14	8F%2	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	8%1				117		G
Y&&Aum	8%2				%7		G
ZAnq	66 2	46F4%	44F52	47F50	47F1%	2F04	I I b
ZAqonAum	%S 1	SF00	SF87	SF8S	SF81	4F70	I I b
ZAqonAum	%l 1	SF%2	SF81	SF86	SF86	6F2%	I I b

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49-0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	1640SF77	1h704F12	164- SF-8	16271F8-	1F67	I I b
c n&mon%	121 1	SFh2	SFh6	SFh-	SFh-	- F0S	I I b
c rsenAq	0h 2	27F01	27F-S	27F81	27F61	SF72	I I b
BarAum	1- h 1	4h1F16	467F2S	4- 8F1h	4h2F84	- F44	I I b
BarAum	1- 0 1	4hhFS6	402F1h	44SF77	4h6FS0	- F42	I I b
Ber%lAum	7 1	1F08	1F81	1F82	1F8S	1F-2	I I b
BAsmu&E	2S7 1				1S7		G
BAsmu&E	2S7 2				1S7		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F-6	1Fh2	1F1-	1F- -	14F62	I I b
RaOmAum	1S6 1	SF-8	1F0-	1F21	1F11		I I b
RaOmAum	111 1	1F26	1F16	1F10	1F2S	4F8h	I I b
RalqAum	4- 1	1660- F81	18S4hF21	16682Fhh	101- - F86	4F61	I I b
RalqAum	44 1	1041SF72	1877SF7S	10h0hFS-	10772F28	4F8-	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	27Fh8	27F0-	- SF-S	27F80	1F28	I I b
Robal&	h7 2	22F44	21Fh0	22F1S	22FS-	1F77	I I b
RoI I er	6- 2	6hFS1	62F82	6hF28	64F-0	2FS7	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				112		G
y olmAum	16h 2				11S		G
DnOAum	11h 1				11S		G
DnOAum	11h 2				1S4		G
Don	h4 2	h2460F-h	h2S4- F8h	h- h20F47	h2607Fh6	1F4h	I I b
Don	h6 2	h2241F70	h1S01F11	h1707F1h	h1064FS0	1F17	I I b
Don	h0 2	h- 116F0h	h1- 17F00	h28- - F8h	h242- F46	1F84	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	08F72	8SF81	06F66	08F8S	2F64	I I b

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Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49-0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	0hF00	00F27	04FS8	0hF01	2F12	I I b
LeaO	2S8 1	00F4h	08F87	0hF- 0	00F24	2F27	I I b
LA&EAum	6 1				1S1		G
MagnesAum	24 2	018- F- 6	6862F74	0S64F16	0S- 6F82	2F- S	I I b
Manganese	hh 2	1SS0FS1	766FS0	770F76	77SF- 4	2F10	I I b
Mol%bOenum	74 1	8F- -	8Fh-	8F11	8F- 2	2Fh2	I I b
Mol%bOenum	7h 1	1F71	2F1h	1F76	2FSS	6F- 2	I I b
Mol%bOenum	76 1	2Fh8	2F61	2F00	2F66	- F0-	I I b
Mol%bOenum	70 1	1F78	2F2h	2FS-	2FS7	6F60	I I b
Mol%bOenum	78 1	2FS4	2F1-	2F11	2FS7	2F27	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	46F86	4hF22	40FS6	46F- 8	2F18	I I b
PEosI Eorus	- 1 2	2666FS7	2064Fh1	2870F- 0	200hF77	4F18	I I b
Po&assAum	- 7 2	- 8- 8F06	- 816F7-	- 802F02	- 842F8S	SF0-	I I b
5 EoOAum	1S- 1				11S		G
5 EoOAum	1S- 2				11S		G
pqanOAum	4h 1				11-		G
pqanOAum	4h 2				1S-		G
pelenAum	82 1	2F16	1F08	2F16	2FS-	1SF08	I I b
pelenAum	00 2	4SF74	4SF2-	42F7h	41F- 0	- F41	I I b
pelenAum	08 2	1SF- 4	0F87	7F4S	7F21	1- F42	I I b
pAAqon	28 1	17SF26	2S8F76	180F62	17hF61	hF7h	I I b
pAver	1S0 1	SF- 6	SF- 6	SF- -	SF- h	hF04	I I b
pAver	1S7 1	SF- 0	SF- 6	SF- 6	SF- 6	1F2h	I I b
poOAum	2- 2	- - 6F- 6	- 22F42	- 41F42	- - - F4S	2F7h	I I b
p&ona&um	86 1	1h7F84	16hF0-	16- FhS	16- FS2	1F82	I I b
p&ona&um	88 1	168F1-	107Fh1	101F6h	10- F1S	- F- 0	I I b
pulfur	- 4 1	1816F8h	1472F81	22S0F40	18- 7FS4		I I b
i erbAum	1h7 1				112		G
i erbAum	1h7 2				1S0		G
i EallAum	2S- 1	SF4S	SF- 7	SF- h	SF- 8	6F- 0	I I b
i EallAum	2Sh 1	SF- 8	SF41	SF- 8	SF- 7	hF27	I I b
i An	118 1	1F07	1F0h	1F80	1F8S	- Fh4	I I b
i A&anAum	40 1	07F07	80F4-	8SFS6	82F4-	hF26	I I b
UranAum	2- 8 1	- F61	- F86	- F64	- F0S	- F61	I I b

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Lab:pamI le:D :9	3 - 447 S4	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 82	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9S49 0	t a&a. Ae:Name:9	146c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
VanaOAum	h1 2	0SF88	67F4-	02FS2	0SF00	1F84	l l b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				118		G
Y&&Aum	87 2				117		G
ZAnq	66 2	266F80	2h8FSh	264F77	26- F- S	1F06	l l b
ZAqonAum	7S 1	- F0S	- F7-	4FSS	- F80	4FS6	l l b
ZAqonAum	71 1	- Fnh	- F08	- F00	- F0S	- Fn2	l l b

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LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Pr 5T9l sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9l 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
qPmb c5cmb	20 2	2777: U4N	2: 447U07	2: S- 0U4:	26N20U N	1SU26	DDe
q5Tb n5%	121 1	2U0N	- US6	- US0	2U70	: U 1	DDe
qpwr 5cd	0: 2	61U7	: 0U6	: : U6-	: NU17	: US4	DDe
Bspcmb	1- : 1	606U N	02: U12	01SU27	0S4USS	- U -	DDe
Bspcmb	1- 0 1	01- U60	07NUS7	04NU6S	0: - U4:	: U6-	DDe
Br p%PPmb	7 1	- U02	- U07	- U06	- U06	SU7N	DDe
Bcvb mTE	2S7 1				114		G
Bcvb mTE	2S7 2				1S:		G
Bpmb c5r	N1 1						dDw
v sob cmb	1SN 1	- UN:	4U10	4US4	4US2	4US1	DDe
v sob cmb	1S6 1	1US1	SU22	1U2S	SUS1		DDe
v sob cmb	111 1	- UNN	- U72	4U1S	- U70	2U7S	DDe
v sPdcmb	4- 1	46622U7	4N476U4-	407SNU62	4060: UNN	2US1	DDe
v sPdcmb	44 1	4N6N2U4	: SN: 2U0S	: S4- 1U16	477NNUNS	2U S	DDe
v spen5	12 1						dDw
v spen5	12 2						dDw
v EPhpc5r	- : 1						dDw
v EPhpc5r	- : 2						dDw
v Epmb cmb	: 2 2	40U2-	4- U10	42U4-	44U2N	: UN4	DDe
v nesPT	: 7 2	10U12	1: U0S	1: U :	16US6	: UN:	DDe
v nDDr p	6- 2	144U1N	12NU1:	126U0-	1- - US2	0U2N	DDe
&%wDpnwcmb	1: 6 1						dDw
&%wDpnwcmb	1: 6 2						dDw
. pecmb	164 1						dDw
. pecmb	164 2						dDw
HsonP5cmb	16S 1						dDw
HsonP5cmb	16S 2						dDw
h nPb cmb	16: 1				11N		G
h nPb cmb	16: 2				1S:		G
t5ocmb	11: 1				11-		G
t5ocmb	11: 2				7N		G
tpn5	: 4 2	: S77NU02	4: 74SU0	4: 02- U2:	40: : 4U1N	6U2N	DDe
tpn5	: 6 2	47016US6	46- 00U2S	4421: US-	46067U4-	: U7-	DDe
tpn5	: 0 2	4742: USN	40- N0U7-	44- 46U4	40S: - U17	: U4-	DDe
Kp%DTn5	N- 1						dDw
Lr so	2S6 1	666U24	0S- UN0	0S6U0N	672U S	- U20	DDe

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LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Pr 5T9 sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y sww	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
Lr so	2S0 1	627U2:	662U-2	667U-:	6: - U01	- U2N	DDe
Lr so	2SN 1	64- U44	60SU27	60: UN-	66- U1N	2U61	DDe
LdEcmb	6 1				1S1		G
y sM5r wcmb	24 2	11- 26U00	1S177U-:	777- USS	1S: S6U-0	6UN-	DDe
y s5Ms5r wr	: : 2	16: NUN-	147SU24	1460U07	1: - NU7:	6U07	DDe
y nP%eor 5mb	74 1	1SU-N	1SU72	11U22	1SUN4	- U72	DDe
y nP%eor 5mb	7: 1	- UN:	4US-	4U12	4USS	- U40	DDe
y nP%eor 5mb	76 1	4U-	4UNN	4UN2	4U04	- UNN	DDe
y nP%eor 5mb	70 1	- U72	4U2:	4U-7	4U17	: U07	DDe
y nP%eor 5mb	7N 1	- UN0	4US-	4US4	- U7N	2U44	DDe
u r no%b cmb	1: S 1						dDw
u r no%b cmb	1: S 2						dDw
u cdkr P	6S 2	- 0U16	- 4U41	- - U11	- 4UN7	: U72	DDe
8 EnwDEnpmw	- 1 2	- 704U67	- - 61UNN	- - 17U47	- : : 2US2	1SU-2	DDe
8 nTswwcmb	- 7 2	00SSU06	6N0NU-S	6N60U21	014NUN-	6U67	DDe
CEnocmb	1S- 1				114		G
CEnocmb	1S- 2				1S-		G
I ds5ocmb	4: 1				11:		G
I ds5ocmb	4: 2				7:		G
I r P5cmb	N2 1	1U1N	1U-S	2U11	1U6S	27U-4	DDe
I r P5cmb	00 2	47UN0	44US1	44U-7	46US7	0U12	DDe
I r P5cmb	0N 2	12USN	7U74	7U-4	1SU4:	1- UNS	DDe
I dcdn5	2N 1	21: U-7	22: U16	22- U-N	221U44	2U-2	DDe
I dgr p	1S0 1	1U17	1U20	1U26	1U24	- U2N	DDe
I dgr p	1S7 1	1U21	1U-6	1U27	1U27	6US1	DDe
I nocmb	2- 2	677U-2	614U-2	6S7U-S	641US:	0U71	DDe
I Tpm5Tcmb	N6 1	- 4: U-2	- : 0U07	- : 1UN4	- : 1U6:	1U00	DDe
I Tpm5Tcmb	NN 1	- : 0UN7	- 0SU-4	- 6NU2:	- 6: U47	1UN2	DDe
I mPmp	- 4 1	N12U-S	41NU7-	- 16U-2	: 1: UN:		DDe
Ar pecmb	1: 7 1				110		G
Ar pecmb	1: 7 2				1S4		G
AEsPRmb	2S- 1	SU42	SU4S	SU-N	SU4S	4U7-	DDe
AEsPRmb	2S: 1	SU-:	SU-7	SU-7	SU-N	: U07	DDe
Ad5	11N 1	16UN4	1NU46	10UN6	10U02	4U6-	DDe
AdS5cmb	40 1	446US7	46SU24	46- UN7	4: 6U04	2US6	DDe
Rps5cmb	2- N 1	2U07	- US1	2U76	2U72	- U70	DDe

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LB9umb er p9J	LB1264S0	3 Dr psTnp9J	aswl sP
Lse9l sb DP9l&9J9	3 - 447 S:	t5wTpmb 5r T9u sb r 9J	8 N
v Rr 5T9 sb DP9l&9J9	y h SFN-	&dPmTm59FsdTnp9J	1
&sTr 9 9Adb r 9qdOmpr o9J	2S2- S0 1292SJS0J-4	&sTsFdP9u sb r 9J	140qC. Fub

8spsb r Tr p	y swv	v n5Cr D1	v n5Cr D2	v n5Cr D-	qgM9v n5dU	v n5dCl &	R5dTw
Vs5soomb	: 1 2	N6UNS	07U-	00U24	N1U17	6U1:	DDe
YTTr peomb	102 1						dDw
YTTr peomb	102 2						dDw
YTTr peomb	106 1						dDw
YTTr peomb	106 2						dDw
YTTpomb	N7 1				121		G
YTTpomb	N7 2				11-		G
Zc5d	66 2	1- : 2US2	1211U01	117NU26	12: 4USS	6U07	DDe
Zqpdn5omb	7S 1	4U12	4U2N	4U2N	4U2-	2U24	DDe
Zqpdn5omb	71 1	4U14	4U-0	4U27	4U20	2U01	DDe

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RlAn&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&:T:i Ane:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	10718F44	1008SF8h	107- - F2-	10800FhS	SF40	I I b
c n&mon%	121 1	SF71	SF71	SF7S	SF71	SFh-	I I b
c rsenAq	0h 2	4- F- h	44F- 1	42F12	4- F26	2Fh4	I I b
BarAum	1- h 1	407Fh6	461F84	462F2S	460F86	2F16	I I b
BarAum	1- 0 1	48hF18	4h6Fh-	404F47	402FS6	- FS0	I I b
Ber%lAum	7 1	2F1S	2F27	2F27	2F2-	4F87	I I b
BAsmu&E	2S7 1				11-		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F8h	2Fh0	1F7S	2F11	17FS7	I I b
RaOmAum	1S6 1	SF- 2	1F4h	1F76	1FS-		I I b
RaOmAum	111 1	1F66	1F0h	1F67	1F0S	2F62	I I b
RalqAum	4- 1	2h- 48F21	2hhShF40	240- hF12	2h176F20	1F62	I I b
RalqAum	44 1	2h70hF07	264h0F6S	2h24- F74	2h872F44	2F- 6	I I b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	28F1-	20F46	20F78	20F86	1F26	I I b
Robal&	h7 2	1hF14	14F8-	1hF1h	1hFS4	1F22	I I b
Rol I er	6- 2	60F78	68F21	60F82	68FSS	SF27	I I b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				11-		G
y olmAum	16h 2				1S8		G
DnOAum	11h 1				111		G
DnOAum	11h 2				1S1		G
Don	h4 2	4S4h8F7S	4S6S0FS8	4S1- 7F6h	4S4S1F80	SFh7	I I b
Don	h6 2	- 7466F72	- 86h6F- 8	- 7180F66	- 71S- F66	1FSh	I I b
Don	h0 2	- 01S- F11	- 6276F20	- 6400Fh6	- 662hF64	1F16	I I b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	18SF6-	10hFS1	108F47	108FS4	1Fh7	I I b

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	101F-2	160F21	167F07	167F44	1F2-	I I b
LeaO	2S8 1	180F00	18- F6S	182F82	184F0-	1F44	I I b
LA&EAum	6 1				1S2		G
MagnesAum	24 2	68- hF14	68- SF-8	671- F0S	68h7F04	SF68	I I b
Manganese	hh 2	1S80F4S	1S02F8S	1S81F8-	1S8SF68	SF68	I I b
Mol%bOenum	74 1	0FSh	6F86	0FS0	6F77	1F64	I I b
Mol%bOenum	7h 1	2F82	2F8-	2F81	2F82	SF22	I I b
Mol%bOenum	76 1	- F2h	- F46	- F28	- F- -	- F4h	I I b
Mol%bOenum	70 1	2F72	- FS4	- FS1	2F77	2F10	I I b
Mol%bOenum	78 1	2F86	2F82	2F7S	2F86	1F41	I I b
NeoO%mAum	1hS 1						ql s
NeoO%mAum	1hS 2						ql s
NAqkel	6S 2	- hF0S	- hF8S	- 4F81	- hF44	1Fh4	I I b
PEosI Eorus	- 1 2	1h78F7-	10ShFS4	1h- 7F02	1614Fh6	hF17	I I b
Po&assAum	- 7 2	hh60Fh4	h4S0F1S	hh4SF4h	hhShFS-	1Fh6	I I b
5 EoOAum	1S- 1				1S7		G
5 EoOAum	1S- 2				1S0		G
pqanOAum	4h 1				111		G
pqanOAum	4h 2				1SS		G
pelenAum	82 1	1F1h	SF76	SF72	1FS1	12F26	I I b
pelenAum	00 2	46F16	62F70	42F64	hSFh7	21F40	I I b
pelenAum	08 2	8F78	8F87	7F12	7FSS	1F-1	I I b
pAAqon	28 1	2h1Fh-	2hhF24	246F20	2h1FS1	1F8S	I I b
pAver	1S0 1	SFh8	SFh7	SFh6	SFh8	2F64	I I b
pAver	1S7 1	SF62	SFhh	SFh0	SFh8	6F46	I I b
poOAum	2- 2	244F17	2h1F42	2h1F27	248F70	1F66	I I b
p&ona&um	86 1	188FSS	187FSS	18hF10	180F-7	1FS6	I I b
p&ona&um	88 1	178F47	2SSF81	17hF64	178F-1	1F-S	I I b
pulfur	- 4 1	1827F10	10- 2F04	107- F7-	108hF28		I I b
i erbAum	1h7 1				111		G
i erbAum	1h7 2				1S6		G
i EallAum	2S- 1	SF41	SF4S	SF42	SF41	2F80	I I b
i EallAum	2Sh 1	SF42	SF4S	SF-7	SF4S	2F74	I I b
i An	118 1	0F7h	0F76	8FSh	0F77	SF66	I I b
i A&anAum	40 1	1- 4F4h	1- 6F6h	127FS4	1- - F-8	2F74	I I b
UranAum	2- 8 1	1F77	2FSS	2FS1	2FSS	SF-0	I I b

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LB:Number:9	LB1264S0	3 I era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S6	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My S. 84	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S9 1S9-2	t a&a. Ae:Name:9	148c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	0- F1h	0SFh7	02F- 0	02FS4	1FB2	I I b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				118		G
Y&&Aum	87 2				114		G
ZAnq	66 2	- 20F77	- - 2F10	- - 2F12	- - SF06	SF0-	I I b
ZAqonAum	7S 1	2Fh8	2F60	2Fh0	2F61	2FS-	I I b
ZAqonAum	71 1	2F0h	2F6S	2Fh4	2F6-	4F11	I I b

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Inst Id :P8

LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RlAen&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&e:T:i Ane:c qduAeO.9	2S2- S0 12:2S91 - 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	20 2	1S0S8F41	1ShS0F0-	1S2h7Fh6	1S471F7S	2F14	l l b
c n&Amon%	121 1	SF64	SFhh	SFh6	SFh8	7F11	l l b
c rsenAq	0h 2	14F0S	14F8S	1hF11	14F80	1F4-	l l b
BarAum	1- h 1	186Fh6	188F- -	108F11	184F- 4	2F76	l l b
BarAum	1- 0 1	171F10	18hFh0	181FS1	18hF72	2F04	l l b
Ber%lAum	7 1	SF84	SF86	SF8S	SF8-	- F0h	l l b
BAsmu&E	2S7 1				1S7		G
BAsmu&E	2S7 2				1S8		G
BromAne	81 1						ql s
RaOmAum	1S8 1	1F80	1F- 6	1F06	1F66	1hF7S	l l b
RaOmAum	1S6 1	- F66	hF68	4F21	4Fh2		l l b
RaOmAum	111 1	1F60	1F01	1F4-	1F6S	7F28	l l b
RalqAum	4- 1	202- - Fh8	20408F0h	20h0hF1h	20427F16	SF64	l l b
RalqAum	44 1	28hSSF77	27S76F66	20040Fh6	28448F4S	2F- 8	l l b
Rarbon	12 1						ql s
Rarbon	12 2						ql s
REIorAne	- h 1						ql s
REIorAne	- h 2						ql s
REromAum	h2 2	18F08	18F60	10F78	18F48	2F- h	l l b
Robal&	h7 2	7F48	7F00	7F- 6	7Fh4	2F24	l l b
RoI I er	6- 2	20F74	20F17	26Fh7	20F24	2F48	l l b
t %sI rosAum	1h6 1						ql s
t %sI rosAum	1h6 2						ql s
CrbAum	164 1						ql s
CrbAum	164 2						ql s
HaOolAnAum	16S 1						ql s
HaOolAnAum	16S 2						ql s
y olmAum	16h 1				11S		G
y olmAum	16h 2				1S0		G
DnOAum	11h 1				1S8		G
DnOAum	11h 2				1SS		G
Don	h4 2	27112FS1	2888SF68	20612F14	28h- 4F74	2F8-	l l b
Don	h6 2	28021F8h	28- h0F70	20246F66	281S8F8-	2F0-	l l b
Don	h0 2	26404F81	26- 1- F27	2h226F8h	26SS4F78	2F61	l l b
Kr%l &on	8- 1						ql s
LeaO	2S6 1	- - FS7	- 2F- 7	- 1Fh8	- 2F- h	2F- 4	l l b

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2S2- S0 12:2S91 - 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	2S0 1	- SF- 6	- SF- 2	- SF12	- SF26	SF4-	I I b
LeaO	2S8 1	- 1Fh1	- 1F22	- SF06	- 1F10	1F21	I I b
LA&EAum	6 1				77		G
MagnesAum	24 2	1166- F11	11- S2F- 1	11S8SF16	11- 48Fh-	2Fh7	I I b
Manganese	hh 2	- 71F62	- 86F68	- 0- FS-	- 8- F08	2Fh1	I I b
Mol%bOenum	74 1	4Fh8	4F46	4F42	4F47	1FB2	I I b
Mol%bOenum	7h 1	1FB0	1F71	1F77	1F72	- F12	I I b
Mol%bOenum	76 1	2FS0	2F1-	2FS7	2F1S	1Fh8	I I b
Mol%bOenum	70 1	1FB4	1F60	1F67	1F0-	hF20	I I b
Mol%bOenum	78 1	1F06	1FB1	1FBS	1F07	1Fh1	I I b
NeoO%mAum	1hS 1					ql s	
NeoO%mAum	1hS 2					ql s	
NAqkel	6S 2	2hF- 7	26FS8	2hFh-	2hF60	1F44	I I b
PEosI Eorus	- 1 2	17h7F22	1776FBh	21SSFS1	2S18F67	- F61	I I b
Po&assAum	- 7 2	- 720F41	- 847F- 2	- 006F6h	- 8h1F12	1F76	I I b
5 EoOAum	1S- 1				1S0		G
5 EoOAum	1S- 2				1S0		G
pqanOAum	4h 1				1S6		G
pqanOAum	4h 2				78		G
pelenAum	82 1	1F12	1F- 1	SF62	1FS2	- 4F78	I I b
pelenAum	00 2	21F- h	2- F02	1SF0S	18Fh7	- 0F- 2	I I b
pelenAum	08 2	- F01	4F66	- F71	4FS7	12F21	I I b
pAAqon	28 1	176F14	176Fh-	178F2-	176F76	SFh6	I I b
pAver	1S0 1	SF- S	SF- 4	SF- S	SF- 1	0FS4	I I b
pAver	1S7 1	SF27	SF20	SF20	SF28	- F47	I I b
poOAum	2- 2	128FS0	121F64	110F4S	122F- 0	4F- 7	I I b
p&ona&um	86 1	1SSF0-	77F78	70F70	77Fh6	1F44	I I b
p&ona&um	88 1	1S0FB8	1S6F60	1S1F06	1ShF44	- FS0	I I b
pulfur	- 4 1	1221F40	1S1SF44	80- FS4	1S- 4F78		I I b
i erbAum	1h7 1				111		G
i erbAum	1h7 2				1S6		G
i EallAum	2S- 1	SF- S	SF- S	SF- 1	SF- S	1FBh	I I b
i EallAum	2Sh 1	SF- S	SF26	SF27	SF28	6FB4	I I b
i An	118 1	SF0S	SF6-	SF62	SF6h	6Fhh	I I b
i A&anAum	40 1	0hF06	0hF- h	06F- 6	0hFB2	SF60	I I b
UranAum	2- 8 1	1FB6	1FB-	1FB-	1FB4	SF7h	I I b

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LB:Number:9	LB1264S0	3 l era&or:9	Jaswal
Lab:pamI le:D :9	3 - 447 S0	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My S. 8h	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2S2- S0 12:2S91- 927	t a&a. Ae:Name:9	147c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el -	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	h1 2	44F80	4hF5-	4- F64	44Fh1	1F01	l l b
Y&erbAum	102 1						ql s
Y&erbAum	102 2						ql s
Y&erbAum	106 1						ql s
Y&erbAum	106 2						ql s
Y&&Aum	87 1				11-		G
Y&&Aum	87 2				1S-		G
ZAnq	66 2	188F16	180F7S	18SF71	18hF66	2F21	l l b
ZAqonAum	7S 1	1F0-	1F84	1F67	1F0h	4F4S	l l b
ZAqonAum	71 1	1F8-	1F60	1F67	1F0-	hF24	l l b

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LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Re&n&psml Re9D 9J9	y h SF: 6	t Ra&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 1292SJ16.J2:	t s&sFAe9Nsme9J	15ScC. FU0

8srsmea&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
cRmAnAm	20 2	1: S7SU6:	17412U65	1: 52- U04	1: 605U67	- U61	l l b
cn&Amon%	121 1	SU57	SU02	SU00	SU67	1- U17	l l b
crwenAq	05 2	20U-	27U65	2: U05	2: U5:	4U1S	l l b
BsrAm	1- 5 1	276U41	- - 7U1:	4SSU2-	- 45U20	15U11	l l b
BsrAm	1- 0 1	275U0	- 45U21	4S1U0	- 40U4:	15U17	l l b
Ber%RAm	7 1	1U0	1U5S	1U65	1U51	7U52	l l b
BAmu&E	2S7 1				11S		G
BAmu&E	2S7 2				1S4		G
BromAne	: 1 1						ql w
v sOmAm	1S: 1	1U7:	2U5S	2U05	2U41	16U17	l l b
v sOmAm	1S6 1	1U15	SU62	SU72	SU1-	: 5: U10	l l b
v sOmAm	111 1	2U-	2U62	- U2S	2U01	16U2	l l b
v sRqAm	4- 1	5S466U S	5: S0- U1	67S15U56	571: 5U7	15U05	l l b
v sRqAm	44 1	51: 75U6	6S- 6SU4S	01121U44	61125U7S	15U06	l l b
v srbon	12 1						ql w
v srbon	12 2						ql w
v ERrAne	- 5 1						ql w
v ERrAne	- 5 2						ql w
v EromAm	52 2	- 4U67	- 6U16	- 4U7	- 5U25	2U26	l l b
v obsR&	57 2	17U1-	17U67	17US6	17U27	1US	l l b
v ol l er	6- 2	42U02	45U55	44U46	44U24	- U22	l l b
t %wl rowAm	156 1						ql w
t %wl rowAm	156 2						ql w
. rbAm	164 1						ql w
. rbAm	164 2						ql w
HsOoRnAm	16S 1						ql w
HsOoRnAm	16S 2						ql w
hoRmAm	165 1				11-		G
hoRmAm	165 2				1S5		G
DnOAm	115 1				112		G
DnOAm	115 2				77		G
Don	54 2	4: 6: 5U71	51- SSU2	4: 564U10	47516U70	- U12	l l b
Don	56 2	40: 66U5:	5S57- US2	47167U1	472S7US	2U00	l l b
Don	50 2	4: 05- U56	5S: S- U11	47167U02	47505U46	2U17	l l b
Kr%l &on	: - 1						ql w
LesO	2S6 1	5SU77	54U0	64U2S	56U52	12U14	l l b

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LB9Number9J	LB1264S0	3 l ers&or9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Re na&psml Re9D 9J9	y h SF: 6	t Ra&on9Fsq&or9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 1292SJ16J2:	t s&sFAe9Nsme9J	15ScC. FUO

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	RnA&w
LesO	2S0 1	40U75	52U71	61U02	54U2S	12U0	I I b
LesO	2S: 1	4: U1	5- U4	62U4:	54U0	12U67	I I b
LA&EAum	6 1				1SS		G
y sMhewAum	24 2	1: 61- U71	17- 75US1	1: 002U50	1: 720U16	2U1:	I I b
y snMsnewe	55 2	0S5US2	042U-	0S0U10	01: U4	2U76	I I b
y oP%bOenum	74 1	4U72	5U66	6U6-	5U04	14U71	I I b
y oP%bOenum	75 1	2U52	2U0	- U42	2U74	15U4S	I I b
y oP%bOenum	76 1	2U05	- U15	- U00	- U22	15U7S	I I b
y oP%bOenum	70 1	2U46	2U7S	- U5-	2U76	1: U10	I I b
y oP%bOenum	7: 1	2U4:	2U76	- U5	2U7-	14U7S	I I b
NeoO%mAum	15S 1						ql w
NeoO%mAum	15S 2						ql w
NAqkeP	6S 2	47US2	5SU17	4: U10	47U1-	2US0	I I b
8 EowI Eoruw	- 1 2	1: 72U7-	1755U4	1764U56	17- 0U61	2US1	I I b
8 o&swwAum	- 7 2	4541US6	4: 11U02	46S4U5	4652U54	- US4	I I b
CEoOAum	1S- 1				1S7		G
CEoOAum	1S- 2				1S-		G
pqsnOAum	45 1				11S		G
pqsnOAum	45 2				70		G
pe&enAum	: 2 1	SU07	1U22	1U74	1U2	44US4	I I b
pe&enAum	00 2	22U65	- 6U7S	4SU50	- - U:	2: U6	I I b
pe&enAum	0: 2	6U4-	5U06	5U06	5U7:	6U46	I I b
pAqon	2: 1	15- U70	106U7	212U47	1: SU75	16U2	I I b
pAger	1S0 1	SU40	SU56	SU6-	SU56	14U2-	I I b
pAger	1S7 1	SU5-	SU57	SU6-	SU5:	: U06	I I b
poOAum	2- 2	- 1- U05	- - 2U42	- 2SU40	- 22U21	2U7-	I I b
p&onAum	: 6 1	157U10	1: - U1	215U57	1: 6U17	15U17	I I b
p&onAum	: : 1	167U1:	17- U16	220U77	176U0:	15US-	I I b
pu&ur	- 4 1	2050U4	14: : U5-	5: 1U57	1221U57		I I b
i erbAum	157 1				112		G
i erbAum	157 2				1S4		G
i EsPAum	2S- 1	SU40	SU5S	SU50	SU52	1SU17	I I b
i EsPAum	2S5 1	SU45	SU51	SU5:	SU51	1- US4	I I b
i A	11: 1	1U14	1U4S	1U6:	1U41	17US1	I I b
i A&snAum	40 1	62U01	02U17	: : U6	04U57	10U05	I I b
RrsnAum	2- : 1	2U5:	2U7S	- U5	2U74	1- U14	I I b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB9Number9J	LB1264S0	3 l ers&br9J	aswl sP
Lsb9psml Re9D 9J9	3 - 447 S:	Dw&umne&Nsme9J	8 :
v Ae na&psml Re9D 9J9	y h SF: 6	t Ae a&on9Fsq&br9J	1
t s&e9T9 Ame9cqduAeC9J	2S2- S0 129 2SJ16.J2:	t s&sFAe9Nsme9J	15Sc C. FUD

8srsme&er	y sww	v onCel 1	v onCel 2	v onCel -	cgM9v onqU	v onqCpt	Rn&w
VsnsOAum	51 2	07U5:	: - U54	: 1U7S	: 1U6:	2U44	l l b
Y&erbAum	102 1						ql w
Y&erbAum	102 2						ql w
Y&erbAum	106 1						ql w
Y&erbAum	106 2						ql w
Y&Aum	: 7 1				116		G
Y&Aum	: 7 2				1S7		G
ZAnq	66 2	2- 7U1	256U61	245U00	240U4S	- U44	l l b
ZAqonAum	7S 1	1U6S	1U5	2U56	1U4	12U52	l l b
ZAqonAum	71 1	1U54	1U77	2U5	1U76	2SU4:	l l b

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S20	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S20	&dPmT5C:UsdT5p:9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	q gMF:3 5CdF	3 5Cdv l &	RCdTw
q Pmb oCcmb	20 2	. 1606F22	. SSN1FS2	. 1S6. F7J	. SJ4SFNN	1F. N	DDe
q CTb 5Ch	121 1	. SNF. 6	4N2F7N	. 1SF52	. SSF72	7F11	DDe
q pwr Ccl	0. 2	. 1JF. .	. 1JFS1	. 20FS1	. 21FN6	SFN6	DDe
Bspcmb	17. 1	2. N7FJ2	24. 0FSS	2. N1F46	2. 4SF0J	2FN6	DDe
Bspcmb	170 1	2. 66FS7	242. F67	2. 47FN0	2. 11FN.	7FSS	DDe
Br phPmb	J 1	4N0F4S	46JF17	404F67	400FS.	1FJ0	DDe
Bcwb mT%	2SJ 1				J0		E
Bcwb mT%	2SJ 2				J6		E
Bp5b cCr	N1 1						dDw
3 sob cmb	1SN 1	. 12FSN	4N. F02	. 1JF6S	. S. FNS	7F. 2	DDe
3 sob cmb	1S6 1	. S7F2.	40. F. J	. 21FSJ	4JJFJN	4F. J	DDe
3 sob cmb	111 1	. S7F66	4N1F6J	. S4F02	4J6F6J	2F62	DDe
3 sPdcmb	47 1	2. 4. . 1FN7	242462F07	246J7SF. 1	240JN1F6J	2F46	DDe
3 sPdcmb	44 1	24NNNNF60	276. 16F04	276J6NF40	24S0J1F2J	2FJ1	DDe
3 spe5C	12 1						dDw
3 spe5C	12 2						dDw
3 %F5pcCr	7. 1						dDw
3 %F5pcCr	7. 2						dDw
3 %p5b cmb	. 2 2	4N0FS6	402F. 2	4JSFJ1	4N7F. S	2FS1	DDe
3 5esFT	. J 2	4N1F4.	460F4.	4J7F6N	4NSFN6	2F07	DDe
3 5DDr p	67 2	. S1SF77	4J. 6F06	. 1SJF0J	. S2. F62	1F. .	DDe
&hwDp5wcmb	1. 6 1						dDw
&hwDp5wcmb	1. 6 2						dDw
Gpecmb	164 1						dDw
Gpecmb	164 2						dDw
Hso5PdCcmb	16S 1						dDw
Hso5PdCcmb	16S 2						dDw
K5Pb cmb	16. 1				1S.		E
K5Pb cmb	16. 2				1S2		E
tCocmb	11. 1				JN		E
tCocmb	11. 2				J2		E
tp5C	. 4 2	12644SF. 0	1270JJF1.	12J21. F01	1264N. F14	2F14	DDe
tp5C	. 6 2	1261N4FSS	12. J16F1.	12N676F77	126J12F16	1F1N	DDe
tp5C	. 0 2	12JSN4FN6	12471JF2.	171722F04	12N242F2N	2F0J	DDe
k phDT5C	N7 1						dDw
Lr so	2S6 1	2. JNF. J	247SF11	24. JF. 2	24J6FS0	7F61	DDe

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On:7/14/2023 8:48:56 AM
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LB:umb er p:9	LB1264S0	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	3 3 - S20	tOwTpmb Or T:u sb r :9	8 N
3 Pr CTI sb DP:t&:9	3 3 - S20	&dPmT5C:UsdT5p:9	1
&sT:i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - F5

8spsb r Tp	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
Lr so	2S0 1	26SSF6J	242NF. 0	24SSFN6	2406F01	4F70	DDe
Lr so	2SN 1	2. 07F01	2472F21	244. F40	24N7FNS	7F1.	DDe
LdP%mb	6 1				N0		E
y sMOr wmb	24 2	2. N. 64FN1	2. 16JJF02	26. SJSF47	2. N4. 1F6.	2F. J	DDe
y sOMsOr wr	. . 2	. S04F. 7	. S20FN1	. 101FN0	. SJ1F41	1F44	DDe
y 5Pheor Omb	J4 1	. S67FSJ	4N7NFS1	4N1. F44	4JS. F. 1	2F0J	DDe
y 5Pheor Omb	J. 1	. S. . FJ4	40J0F6J	4N4JFJ7	4JS1F1J	2F0J	DDe
y 5Pheor Omb	J6 1	. S76F. S	4N61FS2	4J47F. N	4J40FS7	1F00	DDe
y 5Pheor Omb	J0 1	4J01F7J	4N7JFJ.	4J2JF60	4J17F60	1F70	DDe
y 5Pheor Omb	JN 1	4JJ. FS1	400NF6S	4J6. FN4	4J17F1.	2F7J	DDe
ur 5ohb omb	1. S 1						dDw
ur 5ohb omb	1. S 2						dDw
udfr P	6S 2	4J7F0N	4N. F7.	4J0F0.	4J2F7S	1F2J	DDe
8 %5wD%5pmw	71 2	J00. F1.	J407FN0	1SS70FN.	J062F2J	2FNJ	DDe
8 5Tswwmb	7J 2	17SNSJF06	12. 1. NF76	12N440F66	12N17NF. J	2F22	DDe
v %5omb	1S7 1				J4		E
v %5omb	1S7 2				J4		E
I dsOomb	4. 1				JN		E
I dsOomb	4. 2				J7		E
I r P Omb	N2 1	. S7FSJ	402FS4	4N1F. 2	4N. F. .	7F2N	DDe
I r P Omb	00 2	4N4F6.	46NF. 7	. S6F72	4N6F. S	7FJS	DDe
I r P Omb	0N 2	. 2JFN0	. 24F16	. 41F. 0	. 71FN0	1F60	DDe
I dd5C	2N 1	. 2. FS.	. S4F60	. 17FJ0	. 14F. 6	1FJN	DDe
I dgr p	1S0 1	4J. F2N	4N6F26	. 12FS4	4J0FN6	2F67	DDe
I dgr p	1SJ 1	4J. FJJ	40SFN.	4J1F60	4N6F10	2F06	DDe
I 5omb	27 2	261JJ. F06	2. 11. 0FS0	260600F6S	26S206FN1	7F22	DDe
I Tp5CTomb	N6 1	12024F46	11N2SF21	12SN2F21	122SNFJ6	7FN1	DDe
I Tp5CTomb	NN 1	1247NF. 2	11N. 2FN7	12172F0J	12141F7N	2F41	DDe
I mPVmp	74 1	JJ26FN1	NNSJF. 1	NJ. SFJ7	J22JFSN	6F. J	DDe
Ar pe omb	1. J 1				1S7		E
Ar pe omb	1. J 2				1S1		E
A%sPmb	2S7 1	. 2NFJ0	. S2F17	4JJF64	. 1SF2.	7F1J	DDe
A%sPmb	2S. 1	. 10F02	4N0F4N	4J6F. N	. SSF. J	7F1S	DDe
AdC	11N 1	. 16FS0	4NNF4J	. S4FS4	. S2FN6	2F0.	DDe
AdsOomb	40 1	. 10. F. 4	4N04FSS	4N. 0F60	4J6JFS0	7F6S	DDe
RpsOomb	27N 1	. S2F4N	40JF0N	4J7F12	4J1F0J	2F72	DDe

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p9	LB1264S0	n Dr psT5p9	aswl sP
Lse:I sb DPP:t&:9	3 3 - S20	tOwTpmb Or T.u sb r :9	8 N
3 Pr CTI sb DPP:t&:9	3 3 - S20	&dPmT5C:UsdT5p9	1
&sTr :i :Adb r :qdOmpr o:9	2S27 S0 12:2S97292J	&sTsUdP:u sb r :9	1. . 3 3 - Fo

8 sps b r Tr p	y sww	3 5Cv r D1	3 5Cv r D2	3 5Cv r D7	qgMF:3 5CdF	3 5Cdv l &	RCdTw
- sCsoomb	. 1 2	. 14F6J	. SJF2J	. 27F0J	. 1. FJ2	1F42	DDe
YTTr pe omb	102 1						dDw
YTTr pe omb	102 2						dDw
YTTr pe omb	106 1						dDw
YTTr pe omb	106 2						dDw
YTTpomb	NJ 1				1SS		E
YTTpomb	NJ 2				J.		E
ZdCd	66 2	4N. SF71	4607F0S	4J14F. 6	4N12FN6	2F. J	DDe
Zqpd5Comb	JS 1	4JJFJS	40NFJ.	4N2F76	4N0FS0	2F71	DDe
Zqpd5Comb	J1 1	40JF0J	4. 1F. 6	462FJ.	464F06	7FS6	DDe

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LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
AwNu iniNu	2072	- .- 1	1.- y	2.44	2.- P	4S.2-	ppm
Antiu onh	12171	S.24	S.1y	S.- S	S.24	22.1y	ppm
Aeabnic	0572	S.S5	S.SS	S.S5	S.S-	0y.P2	ppm
BJeiNu	1- 571	S.2S	S.1S	S.- 2	S.21	51.Py	ppm
BJeiNu	1- 071	S.2-	S.1S	S.2P	S.2S	45.50	ppm
BbehwiNu	y71	S.14	S.SP	S.1-	S.12	2P.22	ppm
Biau Nt%	2Sy71				y5		E
Biau Nt%	2Sy72				1S-		E
Beou inb	P171						cpa
3 Jdu iNu	1SP71	S.11	7S.Sy	S.14	S.S5	24S.Py	ppm
3 Jdu iNu	1S671	74.61	75.2-	70.- 4	75.0-		ppm
3 Jdu iNu	11171	S.S5	S.S5	S.S6	S.S6	- .PP	ppm
3 JwiNu	4- 71	2y.PS	1- .6P	5S.P5	- 1.44	5y.2P	ppm
3 JwiNu	4471	11S.12	6P.P2	115.- 1	yP.SP	25.y0	ppm
3 Jemon	1271						cpa
3 Jemon	1272						cpa
3 %weinb	- 571						cpa
3 %weinb	- 572						cpa
3 %eou iNu	5272	S.S5	S.S5	S.Sy	S.S6	- 5.yP	ppm
3 omJw	5y72	S.S-	S.S1	S.SS	S.S1	126.S6	ppm
3 oppbe	6- 72	1.21	S.6P	S.60	S.P5	- 6.Sy	ppm
DhapeoaiNu	15671						cpa
DhapeoaiNu	15672						cpa
CemiNu	16471						cpa
CemiNu	16472						cpa
GJdowiniNu	16S71						cpa
GJdowiniNu	16S72						cpa
Howu iNu	16571				y6		E
Howu iNu	16572				1S-		E
IndiNu	11571				y5		E
IndiNu	11572				yy		E
Ieon	5472	6.40	5.1y	- .1y	4.y5	- - .- P	ppm
Ieon	5672	0.P6	2.0P	6.14	5.5y	46.1y	ppm
Ieon	5072	0.P5	- .22	2.1-	4.4S	6P.y4	ppm
Kehpton	P- 71						cpa
LbJd	2S671	S.- 4	S.2S	S.- 2	S.2y	25.04	ppm

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LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
LbJd	2S071	S.- -	S.26	S.2y	S.2y	12.- S	ppm
LbJd	2SP71	S.- 6	S.26	S.- 6	S.- -	1P.44	ppm
Lit%iNu	671				P0		E
MJgnbaiNu	2472	11.yP	5.02	0.02	P.40	- 0.0S	ppm
MJngJnbab	5572	S.25	S.1-	S.12	S.16	44.21	ppm
MowbmdbnNu	y471	1.S2	S.4S	S.y0	S.PS	4- .25	ppm
MowbmdbnNu	y571	S.05	S.- y	S.PP	S.60	- 0.P-	ppm
MowbmdbnNu	y671	S.01	S.4S	1.S4	S.02	45.20	ppm
MowbmdbnNu	y071	S.06	S.4S	S.yS	S.6y	- P.10	ppm
MowbmdbnNu	yP71	S.02	S.4-	S.yS	S.6y	- 5.1S	ppm
8 bodhu iNu	15S71						cpa
8 bodhu iNu	15S72						cpa
8 ickbw	6S72	S.S5	S.SS	S.S4	S.S-	0y.Sy	ppm
I %ap%eNa	- 172	704.0S	704.y2	765.6-	701.05		ppm
I otJaaiNu	- y72	0S.- S	51.05	56.00	5y.6S	16.1S	ppm
R%odiNu	1S- 71				y4		E
R%odiNu	1S- 72				1S-		E
r cJndiNu	4571				y2		E
r cJndiNu	4572				y4		E
r bwbniNu	P271	7S.- 0	7S.- S	S.15	7S.10		ppm
r bwbniNu	0072	7S.- P	7S.- P	7S.- P	7S.- P		ppm
r bwbniNu	0P72	S.- 1	7S.- -	S.12	S.S-	1S11.1S	ppm
r iwicon	2P71	1.Sy	S.4S	S.- P	S.62	64.y5	ppm
r iwbe	1S071	S.S5	S.S4	S.S2	S.S4	- - .52	ppm
r iwbe	1Sy71	S.S4	S.S4	S.S4	S.S4	2.SS	ppm
r odiNu	2- 72	1- P.0y	120.65	12- .14	12y.P6	6.2S	ppm
r teontiNu	P671	1.- 6	S.6y	1.y1	1.- 2	46.2-	ppm
r teontiNu	PP71	1.15	S.5y	2.S5	1.26	5P.- 4	ppm
r NifNe	- 471	162S.- 4	702.62	71PS.4y	455.04	221.62	ppm
TbemiNu	15y71				y5		E
TbemiNu	15y72				1S-		E
T%JwiNu	2S- 71	S.26	S.2-	S.2-	S.24	P.- P	ppm
T%JwiNu	2S571	S.2y	S.22	S.22	S.24	16.56	ppm
Tin	11P71	S.S5	S.S1	S.SS	S.S2	115.PP	ppm
TitJniNu	4071	S.55	S.- S	1.S-	S.6-	5P.y0	ppm
UeJniNu	2- P71	S.S5	S.S-	S.S0	S.S5	40.y1	ppm

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LB 8 Nu mbe:	LB1264S0	OpbeJtoe:	9Jas Jw
LJmr Ju pwb ID :	3 3 BS20	InateNu nbt 8 Ju b :	I P
3 wbnt r Ju pwb ID :	3 3 BS20	DiwNtion FJctoe:	1
DJtb & Tiu b AcqNiebd :	2S2- 7S0712 2S:- 6:S6	DJtJFiwb 8 Ju b :	1563 3 BC.d

I JeJu btbe	MJaa	3 onRbp1	3 onRbp2	3 onRbp-	Avg. 3 onc.	3 oncRr D	Unita
VJnJdiNu	5172	S.S2	S.SS	S.S1	S.S1	y6.6-	ppm
YttbemiNu	10271						cpa
YttbemiNu	10272						cpa
YttbemiNu	10671						cpa
YttbemiNu	10672						cpa
YtteiNu	Py71				y4		E
YtteiNu	Py72				yP		E
Zinc	6672	S.2-	S.- 4	S.16	S.24	- 6.Sy	ppm
ZieconiNu	yS71	S.S4	S.S1	S.S5	S.S4	56.52	ppm
ZieconiNu	y171	S.S-	S.S-	S.14	S.S0	y0.6y	ppm

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LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r &p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P b A C A b	2072	1SS	1S6	1S2	1S-	-FS6	ql w
c C&b nC9	12171	S	N	10	N	1SSFS2	ql w
cpwr C A q	0y72	S	-	2	2	J1F6y	ql w
Bsp A b	1-y71	42	42	yS	44	1SFN2	ql w
Bsp A b	1-071	60	yN	yS	yN	14F2J	ql w
Br p9P A b	J71	2J	2-	-1	2N	16F-J	ql w
B A b m&a	2SJ71	6-6N4yy	6-N6SS6	64261-1	6-J-y-1	SF46	ql w
B A b m&a	2SJ72	-112-1S	-11220S	-Sy611-	-SJ-y64	1FSy	ql w
Bpmb A Or	N171	4y4-	44J2	4-SJ	444N	2F06	ql w
. sCb A b	1SN71	21	10	10	1N	1-F-S	ql w
. sCb A b	1S671	42J2	-Ny1	4S26	4Sy6	yF4J	ql w
. sCb A b	11171	41J	-0N	4S-	4SS	yF21	ql w
. sP q A b	4-71	246	2yy	26S	2y4	2F04	ql w
. sP q A b	4471	2N4NS	2N2-y	2N64N	2N4y4	SF0-	ql w
. spenC	1271	2-6-N21	2-y2J21	2-111J-	2-4264y	1F1J	ql w
. spenC	1272	2N60S	-S6y0	2J440	2JyJ1	-F-N	ql w
. hP pA Or	-y71	J6S-4	J2621	NJJ2N	J2N61	-F-S	ql w
. hP pA Or	-y72	0SS	00y	642	0S6	JF40	ql w
. hpmb A b	y272	1S-S	1SJ0	12-S	111J	JF1S	ql w
. nesP&	yJ72	6-	40	4-	y1	2SFJ6	ql w
. nI l r p	6-72	yyS	410	4J-	4N0	1-F0y	ql w
t 9wl pnw A b	1y671	10	10	N	14	-4F60	ql w
t 9wl pnw A b	1y672	-	S	-	2	N6F6S	ql w
Epe A b	16471	yS	yS	60	y6	10F-2	ql w
Epe A b	16472	0	20	20	2S	y0F0-	ql w
GsOnFA C A b	16S71	110	110	1SS	111	NF66	ql w
GsOnFA C A b	16S72	12S	14-	120	1-S	JF2y	ql w
HnP b A b	16y71	JSN2S01	JS6Ny0N	NJ0J242	JS4-2J0	SF62	ql w
HnP b A b	16y72	-J60424	-JJJS66	-J0y164	-JNSyy2	SF41	ql w
DDO A b	11y71	666060S	661SNyJ	60S4-40	666SJyJ	SF01	ql w
DDO A b	11y72	J616--	Jy2-yS	J6-22-	JyJS6J	SF61	ql w
D pnC	y472	--J	4S6	-2N	-y0	11F00	ql w
D pnC	y672	202N	2NSS	2010	204N	1F6y	ql w
D pnC	y072	N-	122	1y6	12S	-SFS-	ql w
Kp9l &aC	N-71	26S	2S6	22y	2-S	11FN4	ql w
LrsO	2S671	6y6	yJ4	0S6	6y2	NFy4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sUA P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	y--	yJ4	y44	yy0	yFN4	ql w
LrsO	2SN71	2622	2y2N	26--	2yJy	2F24	ql w
LA&nAmb	671	26--460	2yNN00S	2yN6N6S	26S-S-2	1FS1	ql w
RsgOr wAmb	2472	yS	42	1--	0y	60FyJ	ql w
RsOgsOr wr	yy72	40	y-	-S	4-	20F0-	ql w
RnP9eOr Omb	J471	142	60	N-	J0	4SFyS	ql w
RnP9eOr Omb	Jy71	--	10	N	1J	6yF40	ql w
RnP9eOr Omb	J671	yN	yS	12y	0N	y2FNy	ql w
RnP9eOr Omb	J071	S	42	S	14	10-F21	ql w
RnP9eOr Omb	JN71	2y	--	60	42	y2FJ2	ql w
urnO9b Amb	1yS71	0	S	2S	J	114Fyy	ql w
urnO9b Amb	1yS72	S	0	S	2	10-F21	ql w
uAqkr P	6S72	yS	-0	y-	40	1NFNJ	ql w
8hnwl hnpmw	-172	-SN	2N-	160	2y-	2JFJ1	ql w
8n&swwAmb	-J72	1S2S4	1S2N0	1S2J6	1S262	SF4J	ql w
5hnOAmb	1S-71	66y660S	6644-1-	60-0-01	660J4y1	SF06	ql w
5hnOAmb	1S-72	-1-20y0	-114SN2	-SJ0104	-114601	SFy0	ql w
3qsCOAmb	4y71	4412S22	420N04N	4-0224N	4-y4--J	1Fy0	ql w
3qsCOAmb	4y72	14JyJ0	14JS6N	140J26	14NN6-	SFy0	ql w
3r P CAmb	N271	71S	-1	--	1N	1-4FJJ	ql w
3r P CAmb	0072	S	-	S	1	10-F21	ql w
3r P CAmb	0N72	10	12	14	14	10Fy6	ql w
3 A&nC	2N71	10N0S6	104y64	106S4J	10644S	1F1J	ql w
3 A r p	1S071	yN	yN	110	0N	4-F S	ql w
3 A r p	1SJ71	2y	yS	42	-J	-2F0-	ql w
3nOAmb	2-72	2SJ24	2S1y6	1JJN1	2S-y4	2F46	ql w
3&nC&Amb	N671	4yN	4SN	4N-	4yS	NF4J	ql w
3&nC&Amb	NN71	JN-	62y	0yN	0NJ	22FJ6	ql w
3mPmp	-471	-1401-	-1S4SN	-112N0	-121-6	SF0-	ql w
irpeAmb	1yJ71	J1N-6Sy	JS01N1N	J4y1621	J2-y6N1	2F11	ql w
irpeAmb	1yJ72	-N6J010	-J06S--	-J1241J	-J1J-JS	1F-0	ql w
ihsPAmb	2S-71	yS	yS	--	44	21F66	ql w
ihsPAmb	2Sy71	1yS	2SS	2SN	1N6	16FJy	ql w
iAC	11N71	1S60	110y	12SN	11yS	6F44	ql w
iA&sCAmb	4071	10y	2SN	142	10y	1JFSy	ql w
MpsCAmb	2-N71	2y	2y	N	1J	4JFyS	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3SS	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S	t A P&nC Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:SJ:14	t s&sU A P usb r :	SS4. cLBFO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	y172	1-	10	2-	1N	2NF64	ql w
Y&pe Amb	10271	yS	42	N-	yN	-0FNS	ql w
Y&pe Amb	10272	2N	-J	44	-0	22FJ1	ql w
Y&pe Amb	10671	140y	1460	14SN	14yS	2Fy1	ql w
Y&pe Amb	10672	1S24-	1S2y4	J01y	1SS01	-FS6	ql w
Y&p Amb	NJ71	122066J4	11JyS-y2	1216-206	121-S1S0	1F-0	ql w
Y&p Amb	NJ72	12066J4	126Jyy-	12N1600	120yJ0y	SF4N	ql w
ZACq	6672	120	1-S	1--	1-S	2Fy0	ql w
ZAqnCAmb	JS71	40y	4--	4yS	4y-	4F6-	ql w
ZAqnCAmb	J171	1--	12y	--	J0	y0FS0	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	922	901	911	9-C	-F41	cps
Antimony	12171	960S	9S-0	9162	9289	-F61	cps
Arsenic	0C72	1C6	1C4	126	14C	11FC4	cps
Barium	1-C71	1S-C4	9912	90-0	1SSS1	-F18	cps
Barium	1-071	10480	2SS4S	18-96	18641	6F94	cps
Beryllium	971	1466	1C49	1C16	1C1S	2F0C	cps
Bismuth	2S971	6-C6669	6-C0C1S	6-81218	6-6C1-2	SF22	cps
Bismuth	2S972	-S612C0	-14-868	-S8SS6S	-S9CS62	1F4S	cps
Bromine	8171	4C84	42C9	42-4	4-C9	4F48	cps
. admium	1S871	1SS	1-8	121	119	1CF0-	cps
. admium	1S671	-0-4	4426	-8C9	4SS6	9F2S	cps
. admium	11171	14--	1C6-	1C9-	1C-S	CFC8	cps
. alcium	4-71	0S61	02-8	0208	019-	1F61	cps
. alcium	4471	14S80C	14--S4	1428S2	142-20	SF9S	cps
. arbon	1271	2-46S90	2-S9688	228904-	2-1C106	1F2-	cps
. arbon	1272	29S46	29898	29-88	29444	1F46	cps
. hlorine	-C71	98-41	9-6-C	9--42	9C1S6	2F9C	cps
. hlorine	-C72	010	6CS	08-	010	9F-S	cps
. hromium	C272	4S64	4241	4S00	4120	2F-8	cps
. obalt	C972	204S	28S0	2680	204C	2F19	cps
. opper	6-72	4061	4604	4604	40S-	1FS6	cps
Dysprosium	1C671	S	S	10	6	10-F21	cps
Dysprosium	1C672	S	-	1S	4	114F6S	cps
Erbium	16471	0C	2C	60	C6	48F22	cps
Erbium	16472	10	-S	20	24	28F-8	cps
Gadolinium	16S71	110	0C	60	86	-1F11	cps
Gadolinium	16S72	00	1SS	12-	1SS	2-F--	cps
Holmium	16C71	9S2216C	896C622	9SS08-9	8998C42	SF--	cps
Holmium	16C72	-92946C	4SS8C09	-90CC89	-901211	1FSS	cps
Indium	11C71	66206-2	6C42226	6C91146	6C80SS2	SF6C	cps
Indium	11C72	96610-	96C9C4	969844	960-2-	SF2-	cps
Iron	C472	-928	-0C1	-92-	-860	2F61	cps
Iron	C672	6C12S	64189	64220	64C12	SFB2	cps
Iron	C072	1CC6	1011	1602	1646	4F92	cps
Krypton	8-71	2CS	2CC	2-S	24C	CF4S	cps
Lead	2S671	CSC0	C1-4	CS18	CS0S	1F10	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	4C09	424S	4-9C	44SC	-F8C	cps
Lead	2S871	2SS9C	2S404	196C6	2SS0C	2FS4	cps
Lithium	671	2C966SC	264C22C	2629011	262-840	SF9C	cps
Ragnesium	2472	C60-0	C0899	C09CS	C0C29	1F19	cps
Ranganese	CC72	81S	8S-	0S0	00-	0F48	cps
Rolybdenum	9471	99C4	1S146	1S496	1S198	2F0S	cps
Rolybdenum	9C71	12C98	120-9	121-9	12492	2FC1	cps
Rolybdenum	9671	1-949	14224	1-682	1-9C2	1F94	cps
Rolybdenum	9071	0686	0469	00S2	0619	1F01	cps
Rolybdenum	9871	2S98-	19C22	2S2C0	2S2C4	-F61	cps
Neodymium	1CS71	1-	1-	2S	16	24F06	cps
Neodymium	1CS72	-	-	-	-	SFSS	cps
Nickel	6S72	8-0	88S	89-	80S	-F41	cps
Phosphorus	-172	20C	2--	-42	28-	19F29	cps
Potassium	-972	4C94S	4CCC6	4-906	4C1C8	2F-1	cps
5hodium	1S-71	66SC-0C	66486S9	661-044	6622C06	SF-C	cps
5hodium	1S-72	-186C4-	-144484	-1S9846	-1469C8	1F22	cps
3candium	4C71	4-8-924	42-118C	42C8C66	429122C	1F9S	cps
3candium	4C72	146-88	149189	144149	146C0C	1F02	cps
3elenium	8271	C16	4-S	49C	48S	9F-C	cps
3elenium	0072	1S	2S	1-	14	-CF26	cps
3elenium	0872	C-	0-	C6	61	10F08	cps
3ilicon	2871	211182	211-00	21SS69	21S806	SF-	cps
3ilver	1S071	6-4-	604-	6000	6621	-F64	cps
3ilver	1S971	C926	6-C2	6S-C	61S4	-F62	cps
3odium	2-72	1222S2	1214C-	121-20	121661	SF-9	cps
3trontium	8671	18SS	10C8	1060	100C	1F24	cps
3trontium	8871	1-C-2	1292-	12C2-	12992	-F91	cps
3ulfur	-471	-1-0C1	-1CC60	-10-44	-1CCC4	SFC0	cps
Terbium	1C971	9160021	9-S0921	924606S	924S8S1	SF06	cps
Terbium	1C972	-91-9C2	-944299	-892-4C	-91686C	SF60	cps
Thallium	2S-71	C46S	C1S1	CS-4	C198	4F4S	cps
Thallium	2SC71	1289S	1-S6C	1-2C0	1-S01	1F41	cps
Tin	11871	19048	1992-	2S-24	19998	1F48	cps
Titanium	4071	-0-4	-C84	-0S1	-60-	2F1C	cps
Mranium	2-871	10988	1929S	10902	18410	4F11	cps

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S2	Instrumnet Name :	P8
. lient 3ample ID :	3S2	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:12:16	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	C172	C614	C4C1	C- - 4	C460	2FC0	cps
Ytterbium	10271	60	0C	C8	60	12FCS	cps
Ytterbium	10272	22	6	28	19	62F4-	cps
Ytterbium	10671	1642	148-	122C	14CS	14FC1	cps
Ytterbium	10672	1S180	90S4	9- S-	90- 2	4FCC	cps
Yttrium	8971	118614C6	11891S44	1100- SS4	118418- C	SFC2	cps
Yttrium	8972	1288640	1206699	1280C1-	1284280	SFC1	cps
Zinc	6672	0- S	01S	08-	041	CF12	cps
Zirconium	9S71	06- 6	809C	0- 20	0919	9F00	cps
Zirconium	9171	10SS	1060	1942	18S-	6F92	cps

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
c P mb A C A mb	2072	4-J2-	4-49-	4-0J2	4-JN9	SF-	ql w
c C&b nCy	12171	249944	2444N-	24J--6	246JNN	1F19	ql w
cpwr CAq	0J72	692S	6NN9	6N19	6N06	SF0J	ql w
Bsp A mb	1-J71	2666N4	20SJN9	2690-9	269SS4	SF06	ql w
Bsp A mb	1-071	4004J6	40904N	400S0-	40NS92	SF-S	ql w
Br pyP A mb	971	021-J	02S-S	02-N0	021N4	SF2J	ql w
BA b m&a	2S971	JJ2NNJN	6-4S-N9	6200299	6S4NN49	0F46	ql w
BA b m&a	2S972	-S11N61	294S9-9	291046-	29J60J4	1F66	ql w
Bpmb A Or	N171	4210	4192	4SN4	416J	1F0S	ql w
. sOb A mb	1SN71	J6SJ	JJ22	J-S9	J409	2F09	ql w
. sOb A mb	1S671	1S262	11--N	1S06-	1S0NN	4F99	ql w
. sOb A mb	11171	6-NSJ	6--S9	6J2SJ	641S0	1FJ-	ql w
. sP q A mb	4-71	N219-	N16J6	N19N-	N1944	SF-	ql w
. sP q A mb	4471	1--S49S	1-2-6S1	1-J-9NN	1--6S26	1F19	ql w
. spenC	1271	24949-S	2J64494	2J2J262	2J2N229	1F-N	ql w
. spenC	1272	-14S9	-12SS	-S92J	-110N	SF0N	ql w
. hP mp A Or	-J71	1-JS94	1-0SJ-	1-06NJ	1-661S	SF99	ql w
. hP mp A Or	-J72	11--	1142	NJN	1S4J	1JF44	ql w
. hpmb A mb	J272	064-S	0JN60	04416	0JJ01	1F-N	ql w
. nesR&	J972	1-6NN4	1--190	1-4002	1-49J1	1F-0	ql w
. nI l r p	6-72	11S-9-4	1S9JJS1	1SN0906	1S9JNS-	SF0-	ql w
t ywl pnw A mb	1J671	2J	10	10	19	24F0-	ql w
t ywl pnw A mb	1J672	10	-	1S	1S	66F0S	ql w
Epe A mb	16471	60	N-	--	61	41F60	ql w
Epe A mb	16472	0	20	-S	21	J9F00	ql w
GsOnF A C A mb	16S71	0J	110	42	0N	4NF-1	ql w
GsOnF A C A mb	16S72	110	12-	1S-	114	NF9S	ql w
HnP b A mb	16J71	NS-SJ02	N624-2-	NNJ610-	NJS-6N9	JFS1	ql w
HnP b A mb	16J72	-916J-J	-N6N1JN	-N-NSN6	-N0426S	1FS2	ql w
DDO A mb	11J71	JNS1JSJ	6421416	6-91J01	62S4N-1	JF6-	ql w
DDO A mb	11J72	9--246	91NN64	9SJ-26	919146	1FJ2	ql w
Dpn C	J472	10JS1J	10014S	10419-	10J4JS	SFN0	ql w
Dpn C	J672	--204JJ	--J-SJ9	--J-N16	--44000	SF4J	ql w
Dpn C	J072	N149-	0N6SS	091J-	0904N	1F9-	ql w
Kpyl &a C	N-71	244	242	249	24J	1F-J	ql w
Lr sO	2S671	116J004	11416NS	1161621	11J6-JN	1F11	ql w

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Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	DDw&pmb Cr&usb r :	8N
. PA C&3sb l P D :	3S-	t A n&nC Usq&ap:	1
t s& T i A r cqdm r O:	2S2-7S0712 12:1J:2S	t s&sUA P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
LrsO	2S071	999016	1S1S1JN	1SS-J0N	1SS44N4	SFJ-	ql w
LrsO	2SN71	4N0JS41	4N122S-	4NN41-6	4NJ0120	SFN1	ql w
LA&nAmb	671	2-JS24S	2J4J46S	2J-4422	24060S0	4F4-	ql w
RsgCrwAmb	2472	61N9N-	6144N4	6S04J2	61-64S	SF9J	ql w
RsCgsCrwr	JJ72	-N4J42	-00N66	-009NS	-NS129	1FS1	ql w
RnPyeCrCmb	9471	94J40S	9J206J	94420J	940JS-	SF49	ql w
RnPyeCrCmb	9J71	1-01-SS	141J01-	1421406	14S2N-S	1F96	ql w
RnPyeCrCmb	9671	1J-9-NS	1J49S4J	1JJ169S	1J460SJ	SF42	ql w
RnPyeCrCmb	9071	NJ09N-	NJ-124	NJ4262	NJJ12-	SF-S	ql w
RnPyeCrCmb	9N71	226NS-4	22460N0	2240--9	22J4SJ-	SFJ4	ql w
urnOybAmb	1JS71	2S	2S	--	24	-1F49	ql w
urnOybAmb	1JS72	0	-	-	4	4-F4S	ql w
uAqkrP	6S72	-NNS6	-0N40	-0904	-N2S9	1F-6	ql w
8hnwlhnpmw	-172	2-J9	2-N4	24J9	24SS	2F10	ql w
8n&swwAmb	-972	194209	1916S2	194S92	19--2J	SF00	ql w
5hnOAmb	1S-71	JNSN1JN	6J42166	644S-1S	626-J4J	6F-J	ql w
5hnOAmb	1S-72	-12NN-6	-S-S94-	294-2J4	-S-4-4J	-FS6	ql w
3qsCOAmb	4J71	-014-N4	41J-JN0	41-4121	4SSS690	6F2S	ql w
3qsCOAmb	4J72	1-9409	1-9126	1414N6	14SS-S	SF91	ql w
3rPCAmb	N271	JS0N	J22-	4N0N	JS6S	-F42	ql w
3rPCAmb	0072	19-	1-0	12-	1J1	24F6S	ql w
3rPCAmb	0N72	J-N	J6-	J9S	J64	4F61	ql w
3AAqnC	2N71	-1J4JSS	-S0J44S	-1-266S	-12SN60	1F-1	ql w
3ARrp	1S071	-4SJ21	-4-6-S	-44461	-42N01	SF61	ql w
3ARrp	1S971	-2J69J	-2S600	-19JJ-	-2190J	1FS2	ql w
3nOAmb	2-72	1149690	1129N20	1129169	11-62-1	1FS-	ql w
3&nC&Amb	N671	1N09-42	1N96N9J	1N0-140	1NN-12N	SF6J	ql w
3&nC&Amb	NN71	161SNN44	164J114N	1J9J499N	1610166-	1FJ0	ql w
3mPmp	-471	-4-J-0	--9699	-4S-S4	-411NS	SF6S	ql w
irpeAmb	1J971	N24NS90	912SJ22	9SS9116	N092J0N	JF4S	ql w
irpeAmb	1J972	-NJJ021	-NS0S--	-09JJJJ	-N194-6	SFN4	ql w
ihsPAmb	2S-71	2NS0N-	200-91	2006S9	20NJ94	SF6N	ql w
ihsPAmb	2SJ71	606-6-	64014-	66-92N	66240N	2F21	ql w
iAC	11N71	2S9JJ0	2S002N	2S64-1	2S09SJ	SF06	ql w
iA&sCAmb	4071	-0S-42	-022J6	-0-1S1	-019SS	SF-N	ql w
MpsCAmb	2-N71	9N6S21	90NS-4	9N4462	9N2N-9	SF4-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	o l r ps&ap:	aswl sP
Lse 3sb l P D :	3S-	D Dw&pmb Or &usb r :	8N
. PA C&3sb l P D :	3S-	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2S2-7S0712 12:1J:2S	t s&sU A P usb r :	SS6. cL3FO

8spsb r&p	Rsww	. 831	. 832	. 83-	. 83RrsC	. 8353t	MCA&w
VsCsOAmb	J172	J62N0	J04N1	J6622	J6090	1FSN	ql w
Y&&peAmb	10271	60	0J	JN	60	12FJS	ql w
Y&&peAmb	10272	- -	2N	2N	- S	1SFN1	ql w
Y&&peAmb	10671	2-J9	21JS	2J0J	2-61	9FSS	ql w
Y&&peAmb	10672	90N2	966J	94-0	962N	1FN2	ql w
Y&&pAmb	N971	1S16JJ02	110JSNN-	114J49NJ	1112-N1-	0FJN	ql w
Y&&pAmb	N972	126-J-1	1221600	119N4SN	1220N02	2F69	ql w
ZACq	6672	1-6J24	1-J0NS	1-4S92	1-J46J	SF92	ql w
ZAqnCAmb	9S71	429024	4-N46-	4- - 9N2	4-4SJ6	1FS1	ql w
ZAqnCAmb	9171	90S21	96J2J	90-1J	969J-	SF41	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Mswww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	1S-4S5	1S165-	1S15-1	1S2190	1.S-	cpw
Antimony	12171	5J9J15	61614S	6S956S	6S5102	2.26	cpw
Arwenic	0572	16-92	15J61	15092	16S15	2.S5	cpw
Bsrium	1-571	644552	606JS1	66J992	66-44J	2.54	cpw
Bsrium	1-071	1154S15	12SS-11	11002-2	11001J6	1.90	cpw
BeryPium	971	160590	10---J	1012S5	10S01-	1.0S	cpw
Biwmuth	2S971	61-5229	54-2-S0	5949-99	5J-J909	6.24	cpw
Biwmuth	2S972	2J0J612	2J0S215	2941412	2J96046	1.-4	cpw
Bromine	J171	-J42	4SS1	4106	4SS6	4.16	cpw
Csdmium	1SJ71	1-265	1-10-	1-S9J	1-109	S.6-	cpw
Csdmium	1S671	2S0J-	21551	2S925	21SJ6	1.94	cpw
Csdmium	11171	15S44S	1509S-	15J16S	1555S1	2.J2	cpw
CsPium	4-71	19SJ-0	190204	1956JS	194590	1.02	cpw
CsPium	4471	-S5124-	-1-J26J	-211090	-1--069	2.56	cpw
Csrbon	1271	24J660-	24JS006	240056-	24J1601	S.19	cpw
Csrbon	1272	-1125	-1S5S	-S250	-SJ11	1.56	cpw
ChPrine	-571	129JJS	1-250J	1-1001	1-141S	1.S5	cpw
ChPrine	-572	1S10	JSJ	905	9--	11.J1	cpw
Chromium	5272	1JSS56	1040-4	102-56	105016	2.24	cpw
CobsPt	5972	-2J5-2	-2S946	-21-14	-2-590	1.-2	cpw
Copper	6-72	2J56S05	26966J9	20129-J	20552-4	-.1J	cpw
Dywprowium	15671	60	J-	1SJ	J6	24.-5	cpw
Dywprowium	15672	10	2-	4S	20	45.S0	cpw
Erbium	16471	05	60	5J	60	12.5S	cpw
Erbium	16472	20	10	--	26	-2.J1	cpw
GsdoPnium	16S71	125	1SS	J-	1S-	2S.4S	cpw
GsdoPnium	16S72	1J-	140	15-	161	12.12	cpw
HoPnium	16571	J0S94JS	064-24S	J4400J6	J266J-5	6.02	cpw
HoPnium	16572	-0J945S	-09052-	-J4-S-0	-J1SSS-	S.06	cpw
Indium	11571	61J5961	56S6199	6SJ0462	5959J04	5.21	cpw
Indium	11572	JJ6-51	JJ0210	JJSJ92	JJ4J2S	S.-9	cpw
Iron	5472	424014	416S64	416554	419111	1.16	cpw
Iron	5672	092-4J6	0JS01-2	0J24120	0J515J1	S.JS	cpw
Iron	5072	192545	1J941S	1J54-6	1J91-S	1.JJ	cpw
Krypton	J-71	241	2-6	2-0	2-J	1.S9	cpw
Lesd	2S671	-SJ12J9	-11J469	-1-J241	-112666	S.9-	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	25J4001	2022661	2019014	2605015	2.94	cpw
Lesd	2SJ71	11905250	12469-6J	12-J-6S2	12206S06	2.15	cpw
Lithium	671	245591S	215S4-9	2-5-91-	2-2SSJ0	6.0S	cpw
Msgnewium	2472	15SJ4J5	1499905	152-5S9	151S650	S.09	cpw
Msngsnewe	5572	9110-1	JJ659S	J91922	J9604J	1.4J	cpw
MoPybdenum	9471	2--1-1S	2-J96-1	2-6-426	2-61456	1.24	cpw
MoPybdenum	9571	--514SJ	-46-425	-45J0S5	-42451-	1.J5	cpw
MoPybdenum	9671	-64619S	-09JS-5	-009S4J	-041S91	2.21	cpw
MoPybdenum	9071	2S6SS2S	215221-	2S90-9-	21S-2SJ	2.2S	cpw
MoPybdenum	9J71	5---060	5425S05	54S494J	5-J09-S	S.J9	cpw
Neodymium	15S71	J0	--	9-	01	46.25	cpw
Neodymium	15S72	0	1S	1S	9	21.6-	cpw
NickePl	6S72	9SS09	JJ45-	9S150	J956-	1.S0	cpw
8howphoruw	-172	514-	499-	5-S9	514J	-.SJ	cpw
8otswwium	-972	45SSS0	4-514J	4-5S19	44SS5J	1.96	cpw
Rhodium	1S-71	6-S549S	55240J9	59J641J	59-JJ99	6.61	cpw
Rhodium	1S-72	29S-6JS	2J94J24	291J05S	29S5051	S.42	cpw
3csndium	4571	4S-50-0	-549659	-J4J011	-J11-69	6.4-	cpw
3csndium	4572	1-4041	1-56-0	1--15-	1-451S	S.94	cpw
3elPenium	J271	11909	12S0S	121-5	12S61	S.65	cpw
3elPenium	0072	-4-	--S	4SS	-5J	1S.-9	cpw
3elPenium	0J72	1216	1204	1212	12-4	2.J1	cpw
3iPcon	2J71	6J01211	011S-40	0S0J222	0S19926	1.J5	cpw
3iPver	1S071	J1J252	J2S-J2	J-5619	J24051	1.15	cpw
3iPver	1S971	06-S24	094J-S	099S-J	0J56-1	2.51	cpw
3odium	2-72	265S65S	26-5055	26S2-99	26296S2	S.94	cpw
3trontium	J671	4522S6-	40S5SS5	4614-11	461-09-	1.9J	cpw
3trontium	JJ71	-0096S6J	-95264S5	4S2055-5	-9199--6	-.24	cpw
3ulPur	-471	-6JJ52	-65J44	-654S1	-66699	S.51	cpw
Terbium	15971	J9156JS	09S956-	J-465S1	J-9S5J1	6.S1	cpw
Terbium	15972	-00J-2J	-049J42	-604600	-0-42J2	1.4-	cpw
ThsPium	2S-71	6J05S4	690-J9	69065J	6941J4	S.J-	cpw
ThsPium	2S571	16J0922	1005-0-	106SS4-	104111-	2.6J	cpw
Tin	11J71	409922	515962	51545S	5S-00J	4.1S	cpw
Titsnium	4071	J045SS	J95129	9SJ6S0	J92045	1.92	cpw
Ursnium	2-J71	2512J4-	2559522	25J444S	255226J	1.42	cpw

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LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S4	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S4	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:1J:1J	DstsFiPe Nsme :	SS0CAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1-6915	1-S69J	1-26-4	1--416	2.-J	cpw
Ytterbium	10271	J-	5S	J-	02	26.65	cpw
Ytterbium	10272	61	-9	J-	61	-6.-0	cpw
Ytterbium	10671	41J4	4SJ4	4406	424J	4.09	cpw
Ytterbium	10672	994J	9065	9926	9JJS	1.S1	cpw
Yttrium	J971	11190129	9J50S05	1SJ9JJ29	1S651S11	6.61	cpw
Yttrium	J972	11J-S54	1106141	110S491	1106562	S.5-	cpw
Zinc	6672	-21-JJ	-149S0	-14J-1	-10S42	1.19	cpw
Zirconium	9S71	1S-22J5	1S0195S	1S02094	1S59S1S	2.19	cpw
Zirconium	9171	2-S9J0	2-6509	24S469	2-6S12	2.S2	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
q8be c dbe	20 2	1a4716	1a7uS4	1a16u6	1a726a	SU02	dDI
q. Tde C. y	121 1	11uSu2S	11uS7S4	11u0476	11u2u-7	SU74	dDI
qII p. dd	0- 2	711S6	7S70-	7S162	7S-4u	1U62	dDI
BwIdbe	17- 1	17S2a4-	17S7144	17SS06u	17S22u6	SU1S	dDI
BwIdbe	170 1	27-10Su	27-716S	2726S1S	2747626	SU6-	dDI
Bply8dbe	a 1	72212u	72S4u1	72SS1a	72Su06	SU7-	dDI
Bdde bTh	2Sa 1	612S141	6Su64u-	620u0S6	6161000	1U60	dDI
Bdde bTh	2Sa 2	2u7Su01	2u6u0a-	7S02210	2a27a61	4U44	dDI
BIDe c p	u1 1	76a2	76Sa	7626	7642	1U21	dDI
Fwoe dbe	1Su 1	2407-	24-uS	2-7u6	24aSS	1U02	dDI
Fwoe dbe	1S6 1	76204	76010	7077-	7600-	1U4-	dDI
Fwoe dbe	111 1	2a--S0	2a6aa4	2au06S	2a0Su0	SU--	dDI
Fw8Idbe	47 1	76a0S4	702-a7	760-72	76aa47	SU6a	dDI
Fw8Idbe	44 1	-a776a-	6S6au24	-a10au-	-a07u7-	1U4S	dDI
FwIr C.	12 1	2416a7u	27-11a0	27uuuS2	27u-646	1U7u	dDI
FwIr C.	12 2	71S-S	7S1aS	7S624	7S621	1U4S	dDI
Fh8DIc p	7- 1	12-S-4	124a11	1240u4	124a16	SU11	dDI
Fh8DIc p	7- 2	uSS	11SS	a-u	a-7	1-U0-	dDI
FhIDe dbe	-2 2	776706	77u--0	772411	77-0u1	SUa7	dDI
FDr w8T	-a 2	61aS0S	617-u7	6S2aS6	611u-7	1U74	dDI
FDDDpI	67 2	-27u7-7	-1220uu	-Suu141	-14a06S	1U-7	dDI
&yI DIDI dbe	1-6 1	12-	1SS	1Su	111	11U46	dDI
&yI DIDI dbe	1-6 2	7S	77	77	72	-Ua0	dDI
EIr dbe	164 1	a2	60	0-	0u	16U70	dDI
EIr dbe	164 2	4S	7S	7S	77	10U72	dDI
GwoC8c dbe	16S 1	210	177	2Su	1u6	24U66	dDI
GwoC8c dbe	16S 2	120	140	10S	14u	14U60	dDI
HC8e dbe	16- 1	u4-0246	u6S6a41	u-0246-	u-4---1	SUa2	dDI
HC8e dbe	16- 2	76u1Sa6	704S7aS	7aa2u27	7uS400S	4U7-	dDI
t. odbe	11- 1	6Sa11-S	610SS-0	6164S0a	6141062	SU02	dDI
t. odbe	11- 2	u-2S64	u6-u01	a47S44	uu6aa7	-U-7	dDI
tIC.	-4 2	0a42a2	0aa6u0	0u0u71	0a7a70	SU0-	dDI
tIC.	-6 2	14u72404	14aaS0aa	14a2S4-6	14a14-06	SU-7	dDI
tIC.	-0 2	7671-a	7-uS4-	7-4-7-	7-u-uS	1U21	dDI
KIyDTC.	u7 1	246	226	20S	240	uUu-	dDI
Lpwo	2S6 1	6Sa7Suu	6S7-127	6106S01	61S1420	1U16	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pT mwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuF qL3 Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Lpwo	2S0 1	- 2a0u64	- 21661a	- 717u00	- 20612S	S1aa	dDI
Lpwo	2Su 1	2477Sa41	24S426u-	2467027a	24776a- -	1U22	dDI
LdTbe	6 1	27471- 6	276S107	271046a	274S266	S1a2	dDI
5 wg. pI dbe	24 2	2u- 61a7	2u2a24-	2u107Sa	2u7424a	SU0S	dDI
5 w. gw. pI p	- - 2	10u- ua2	1u4uS21	10u- 6u1	1uS6- 71	1Uaa	dDI
5 C8yr op. be	a4 1	44264u-	4706- 20	440S174	44247u2	1US6	dDI
5 C8yr op. be	a- 1	644- u6a	67aa1a6	640264-	647a270	SUJu	dDI
5 C8yr op. be	a6 1	0S2u- 1S	0S- 6402	0Saa662	0S61- 4u	SUJ1	dDI
5 C8yr op. be	a0 1	4SS1au1	4S1S4a6	7aS6674	7a07S70	1U4-	dDI
5 C8yr op. be	au 1	1S2760uu	1S2S4Sua	1S242177	1S22060S	SU2S	dDI
mpCoye dbe	1- S 1	1S0	a7	1S0	1S2	0UJ7	dDI
mpCoye dbe	1- S 2	17	1S	0	1S	77U7S	dDI
mdkp8	6S 2	101a7u	160240	166- 17	16u- 66	1U0-	dDI
NhCI DhCIbI	71 2	a6u0	a- a-	a462	a- u1	1U1u	dDI
NCTwI I dbe	7a 2	u2S101	u2S22a	u221a1	u2Su64	SU14	dDI
9 hCodbe	1S7 1	- aS624u	6Sa26- -	6S10- 10	6SS- 404	1UJ6	dDI
9 hCodbe	1S7 2	20u0Sa4	2u61276	7S621- 1	2aS74a4	4UaS	dDI
3 dw. odbe	4- 1	7u47616	7a- aS27	7a0- 060	7a2617-	1Uu7	dDI
3 dw. odbe	4- 2	12aS67	171422	17a- 0S	1777- 2	4U17	dDI
3 p8p. dbe	u2 1	272S0	27712	27767	272a4	SU74	dDI
3 p8p. dbe	00 2	6uS	600	0S0	6uu	2U7a	dDI
3 p8p. dbe	0u 2	22a-	22u6	22- S	2200	1US-	dDI
3 8dC.	2u 1	177u4a04	171u67- 2	172u- 407	172u- 6SS	SU0-	dDI
3 8vpI	1S0 1	16Sa1a0	1610411	160S4u4	1672764	2US4	dDI
3 8vpI	1Sa 1	1- 0S0a7	1- 001S2	1- u417a	1- 00744	SU42	dDI
3 Codbe	27 2	4au47u7	4uuu44S	4ua1- aS	4a21401	1U11	dDI
3 TC. Tbe	u6 1	u044- uS	uu0- 1S2	u00Su4u	u0a6u47	SU0u	dDI
3 TC. Tbe	uu 1	0662a1a7	0- Sa270-	06a7S671	062104SS	1U2a	dDI
3 b8bI	74 1	41ua2S	416auS	4164u-	410462	SU71	dDI
ApIr dbe	1- a 1	u7au0a-	uu2S- S2	uua7- 4S	u0S420a	7US0	dDI
ApIr dbe	1- a 2	74aS- 7S	76S0a27	7uaSS64	7662u7a	- U61	dDI
Ahw8bbe	2S7 1	17- 62- 1	172u47u	17- 2a00	174- uua	1U17	dDI
Ahw8bbe	2S- 1	74S0167	77u64a1	7- 2- 7- 6	747a60S	2U1u	dDI
Ac	11u 1	aaSa- 0	au6ua1	a6a722	au27aS	1U10	dDI
AdTw. dbe	40 1	10711- -	1067- 42	10S7172	107261S	1U04	dDI
RIw. dbe	27u 1	4a017- 1	- S26024	- S4S1a7	- S120- 6	SU07	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	n DpIwTCI:J	swI Pw8
Lwr :3we D8p:t&:J	3S-	t. I Tbe . pTmwe p:J	Nu
F8p. T3we D8p:t&:J	3S-	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2S27 S0 12:12J21J1a	&wTwMt8p:mwe p:J	SSuFqL3Ub

NwIwe pTpI	5 wI I	FN31	FN32	FN37	FN35 pw.	FN393&	R. dT
Vw. wodbe	-1 2	2-0066	2---S1	2-2-u-	2--2u4	1US2	dDI
YTpIr dbe	102 1	1Su	1Su	u7	1SS	14U47	dDI
YTpIr dbe	102 2	44	-6	-S	-S	11U11	dDI
YTpIr dbe	106 1	606S	02S2	0200	0SuS	7Ua-	dDI
YTpIr dbe	106 2	11-16	117-S	1222u	116au	7Uaa	dDI
YTTdbe	ua 1	1S62024S	1110a44u	111a2u1a	1Saaau76	2Ua7	dDI
YTTdbe	ua 2	1121276	116a-1a	17Su027	11aau26	uU11	dDI
Zc d	66 2	6S-Su7	-a0727	-a--71	-aa712	SUu-	dDI
ZdcdC. dbe	aS 1	212460a	217a24a	21-0214	214S7uS	SU06	dDI
ZdcdC. dbe	a1 1	44a270	4-6ua4	4-u4u7	4-4u01	1USa	dDI

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Aluminium	2072	- CS428	- 88- S-	- 801C6	- 88642	SF42	cps
Antimon9	12171	24S084C	24240- 4	24- C1- 0	242- CS0	SF6y	cps
Arsenic	0y72	616y6	622- 8	61662	618y2	SFy4	cps
Barium	1- y71	26- 886-	26C841-	26y- 428	266- y68	1F10	cps
Barium	1- 071	46yy046	4y00- 4S	46S- 4y8	4612181	SF80	cps
Ber9llium	C71	6S00- C	61y- C2	6S824S	61S4y0	SF0S	cps
Bismuth	2SC71	6SCC- 26	61406CC	61C0264	6148SC6	SF8S	cps
Bismuth	2SC72	2C2S- 21	2C16- 0C	2884- S8	2CS0SS-	SF68	cps
Bromine	8171	- 606	- 2- 4	- 410	- 442	6F4y	cps
. admium	1S871	40CS4	488Cy	48- 64	48- 88	1FS2	cps
. admium	1S671	60C- y	680- S	0SS08	68C14	1Fy0	cps
. admium	11171	y8Sy8y	y821y-	y04C6y	y0C2- 4	SF6y	cps
. alcium	4- 71	01- y- 8	028y40	024- 6-	02214C	1FS0	cps
. alcium	4471	1161y8Sy	11C1C- 8y	11CS808S	118146y0	1F46	cps
. arbon	1271	244S6yS	2418166	246C844	2442880	1FS6	cps
. arbon	1272	- 2461	- 2- 28	- 24Cy	- 2428	SF20	cps
. hlorine	- y71	12SC0C	1210- 4	12y1C0	1226- 0	1F8-	cps
. hlorine	- y72	88-	CSS	060	8yS	8Fyy	cps
. hromium	y272	6044S2	68S1y6	60y4S-	6066y4	SF4y	cps
. obalt	yC72	1210- 24	12- S146	12- 6C82	12281y1	SF81	cps
. opper	6- 72	1S2- C164	1S2y- 82C	1S2620S8	1S2y1CSS	SF12	cps
D9sprosium	1y671	1S8	18-	2- -	10y	- yFCy	cps
D9sprosium	1y672	C-	0-	60	08	10F84	cps
Erbium	16471	110	1S8	1yS	12y	10F64	cps
Erbium	16472	y0	20	yS	44	- yF44	cps
Gadolinium	16S71	22y	1C2	2y8	22y	14F82	cps
Gadolinium	16S72	1C-	100	22S	1C0	11F11	cps
Holmium	16y71	86C11C4	8048C- S	86- 2y01	86CS8C8	SF60	cps
Holmium	16y72	- 81612-	- 0- S10y	- 8- 426-	- 0C- y2S	1F40	cps
Indium	11y71	61- C444	6S601C2	6S8y004	6SC040S	SF62	cps
Indium	11y72	862222	86yS28	8yy112	86S080	SFyC	cps
Iron	y472	160S288	10S2y6y	101C246	16C0- 66	1F40	cps
Iron	y672	2C80S24C	2C6yyS60	- SS08- 10	2C860808	SF01	cps
Iron	y072	021yS-	02ySC8	0- 1yy6	026Sy2	SF0S	cps
Kr9pton	8- 71	226	2- S	2- 0	2- 1	2F48	cps
Lead	2S671	11C2- 614	12S4- 408	118- C- 0C	11C- y4CS	SF86	cps

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Inst Id :P8

LB Number :	LB1264S0	Operator :	Jaswal
Lab 3ample ID :	3S6	Instrumnet Name :	P8
. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2-7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Lead	2S071	1S-S082-	1Sy-S-08	1S-11281	1S-8-161	1F2-	cps
Lead	2S871	401424C-	48-1y021	4080y406	400008C0	1F24	cps
Lithium	671	22y6S16	21C4-S2	2268810	22-C011	1F08	cps
Ragnesium	2472	y60262-	yy2-y6-	yy6y811	yy80--2	1F-0	cps
Ranganese	yy72	-y684C0	-6Cy04S	-6616C4	-641C00	1FB1	cps
Rol9bdenum	C471	86-1SC2	80y0CC-	88-Sy4S	80-C80y	1F16	cps
Rol9bdenum	Cy71	12016841	120-8S0y	1-SS0C4-	1282SCy-	1F20	cps
Rol9bdenum	C671	14SS6Syy	14S611-y	1414Sy6y	14S6C2y2	SF48	cps
Rol9bdenum	C071	0C4041-	0C6S2S1	08-y1S1	0C142-8	SFB0	cps
Rol9bdenum	C871	2S40Cy-8	2SCS48y0	2S416y4-	2S6SS-1-	1F2C	cps
Neod9mium	1yS71	2SS	18S	1y-	108	1-F10	cps
Neod9mium	1yS72	1-	1S	1-	12	1yF0-	cps
Nickel	6S72	--80y-	--8--C	--810-	--8422	SFSC	cps
Phosphorus	-172	1C802	1886-	1C002	1CyS2	2FBy	cps
Potassium	-C72	160-C1S	10486S2	101-22y	1011C12	2F18	cps
5hodium	1S-71	yCCS4y0	6S6y8-y	y81820-	yCy818C	2F1-	cps
5hodium	1S-72	20686CC	28S2-y0	28S0460	20C2841	SF0y	cps
3candium	4y71	-Cy6SCS	-8CC446	-8y0C-2	-CS448C	1F26	cps
3candium	4y72	12CS00	1-S1-0	12C0S-	12C6-C	SF41	cps
3elenium	8271	444-C	442C2	440-2	44488	SFyS	cps
3elenium	0072	1-00	1-CS	146-	141S	-F-1	cps
3elenium	0872	4yC0	448C	44y2	4y1-	1F60	cps
3ilicon	2871	2y8S2y4-	2y16C2y1	2ySSS-C0	2y-24S64	1F60	cps
3ilver	1S071	-22-2SC	-248122	-20-414	-24824C	SF00	cps
3ilver	1SC71	-Sy881S	-12ySyy	-S-C606	-S04y14	1F46	cps
3odium	2-72	CC2S64y	C0CySS0	1SS-8SC-	CC10C1y	1F2-	cps
3trontium	8671	16C8S2y8	101861C0	102-S-SC	101-22yy	SF08	cps
3trontium	8871	1yS6y8CC1	1y226C480	1y2y08-2S	1y18-yyCC	SF68	cps
3ulfur	-471	y2y8y8	y2-0-4	y2y6C2	y2ySCy	SF22	cps
Terbium	1yC71	80yCS6C	8Cy8810	88200-0	8848y41	1F1y	cps
Terbium	1yC72	-0C0818	-0S81S8	-066-C4	-0y044S	1F21	cps
Thallium	2S-71	28S-1C1	2CSy6-C	28120C0	284Sy42	1FCC	cps
Thallium	2Sy71	6020S18	6828210	66C61C1	60yS406	1FS2	cps
Tin	11871	1C84261	2S-y2y2	1CCCyy6	2SS6-y6	1F-S	cps
Titanium	4071	-418SSy	-428240	-4yyC-0	-4-4S6-	SFy0	cps
Mranium	2-871	C0S2160	1S2-18S2	1S10CS40	1SS-0602	2FC1	cps

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LB Number :	LB1264S0	Operator :	Jaswal
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. lient 3ample ID :	3S6	Dilution Uactor :	1
Date & Time Acquired :	2S2- 7S0712 12:24:10	DataUile Name :	SSC. AL3Fd

Parameter	Rass	. P31	. P32	. P3-	. P3Rean	. P353D	Mnits
Vanadium	y172	y1yS24	y1C168	y10yS6	y102- -	SF4S	cps
Ytterbium	10271	1yS	142	1y8	1yS	yFy6	cps
Ytterbium	10272	1SS	1SS	y6	8y	- SF12	cps
Ytterbium	10671	128CS	12- y6	1- 24S	1282C	- F40	cps
Ytterbium	10672	14S- y	141C0	14441	1422y	1F44	cps
Yttrium	8C71	11- - 414C	1S04- SC2	11S48842	11S42S28	2F68	cps
Yttrium	8C72	11yy- 2-	11y6- 0y	11y8SS6	11y6y68	SF12	cps
Zinc	6672	11C82- 6	12S- S24	11C4C8-	11C8048	SF- 4	cps
Zirconium	CS71	410S486	4S6S242	4- 1S8- 8	418Sy22	- FSS	cps
Zirconium	C171	8C00C6	8C- - y-	CS6186	8CC112	SF02	cps

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Inst Id :P8

LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPrent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
APminium	2072	0J0145	0J1121	09-S16	0J0S94	S.06	cpw
Antimony	12171	4J-S461	51S4055	49614S4	496554S	2.06	cpw
Arwenic	0572	120S5-	125JS-	126J1S	126555	S.52	cpw
Bsrium	1-571	5-1S---	55--061	5456219	54--4-J	2.S9	cpw
Bsrium	1-071	94S4942	90J60-9	946J--9	955--4S	2.14	cpw
BeryPium	971	1216614	1255-2J	1216952	12296-1	1.J1	cpw
Biwmuth	2S971	61J9114	5526--0	6S49116	5921522	5.9S	cpw
Biwmuth	2S972	2JJ0541	29S9095	29625J2	291990-	1.-2	cpw
Bromine	J171	-S05	2J92	-142	-S-0	4.26	cpw
Csdmium	1SJ71	95449	909J4	90606	90S-6	1.4-	cpw
Csdmium	1S671	1--500	1-0962	1-694-	1-6161	1.69	cpw
Csdmium	11171	11512--	11JJ5J-	116606J	116JJ62	1.61	cpw
CsPium	4-71	15412-J	1611S29	152J069	156S-45	2.J4	cpw
CsPium	4471	2-424416	24S9-599	2-2J2661	2-6SS225	1.J4	cpw
Csrbon	1271	24-629J	249JS0S	259S654	25SJ-4S	-.1S	cpw
Csrbon	1272	-4691	----J	-6S11	-46JS	-.J5	cpw
ChPrine	-571	119909	122J6S	12-J00	1222-9	1.65	cpw
ChPrine	-572	1SSS	J42	1110	9J6	14.SS	cpw
Chromium	5272	14J440-	1445-5-	1440462	1459S96	1.51	cpw
CobsPt	5972	26-S1S4	2509524	2564-00	2591--5	1.--	cpw
Copper	6-72	2S5S9S1-	2S509106	2S59596S	2S561-J-	S.22	cpw
Dywprowium	15671	2J-	-42	460	-64	25.04	cpw
Dywprowium	15672	10-	210	15S	1JS	1J.09	cpw
Erbium	16471	2SJ	15S	242	2SS	2-.2S	cpw
Erbium	16472	50	60	40	50	10.65	cpw
GsdoPnium	16S71	292	-05	-SJ	-25	1-.50	cpw
GsdoPnium	16S72	250	20-	-4-	291	15.JS	cpw
HoPnium	16571	9169402	09292J1	JJ194SS	J6-9-J4	0.4S	cpw
HoPnium	16572	-091S5J	-904462	-96002S	-911SJS	2.66	cpw
Indium	11571	6161905	5405S29	6162001	59--25J	6.69	cpw
Indium	11572	J0S652	J694S6	J0-5S2	J011J0	S.24	cpw
Iron	5472	-4211-2	--6S0S-	--9251S	--91449	S.J9	cpw
Iron	5672	62S5159S	595-6164	6S15J-SJ	6S5J2S21	2.16	cpw
Iron	5072	1560665	1529449	1556040	15512J0	1.20	cpw
Krypton	J-71	222	244	2-1	2-2	4.59	cpw
Lesd	2S671	2461-6-S	24-54JJ5	245-426-	245SS926	S.54	cpw

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LB Number :	LB1264S0	Operstor :	aswl sP
Lsb 3smpPe ID :	3S0	Inwtrumnet Nsme :	8J
CPent 3smpPe ID :	3S0	DiPution Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Mswv	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Lesd	2S071	21190-JJ	2S925J12	2152115S	212140J-	1.4S	cpw
Lesd	2SJ71	90J4J5-6	9019609S	9J-9S191	90J11J-9	S.61	cpw
Lithium	671	2140549	2S5--00	210-299	2124042	2.90	cpw
Msgnewium	2472	114S0-5S	11--6J24	112J2162	11-42112	S.55	cpw
Msngsnewe	5572	0-21461	0144926	0412162	0292J49	1.J6	cpw
MoPybdenum	9471	1JS6-194	1J52SJ02	1JS05J5J	1J219905	1.4-	cpw
MoPybdenum	9571	26S-9-29	260J9059	26091966	2654S-51	1.6-	cpw
MoPybdenum	9671	2J-9J64J	2921-200	29-11629	2J90451J	1.0-	cpw
MoPybdenum	9071	1622929J	166S1J-2	16-941J9	164SJ44S	1.14	cpw
MoPybdenum	9J71	41604596	42-62144	4--50241	4246466S	1.99	cpw
Neodymium	15S71	-20	2J0	-40	-2S	9.55	cpw
Neodymium	15S72	6S	4-	4-	49	19.69	cpw
NickePP	6S72	600291	60SS5J	60J42-	605250	S.60	cpw
8howphoruw	-172	-9-54	4S4J2	4S641	4S159	1.05	cpw
8otswwium	-972	-5210-9	-425655	-5J--54	-51S249	2.26	cpw
Rhodium	1S-71	6SJJ616	5444022	590J9S4	5J-0414	5.9S	cpw
Rhodium	1S-72	2JS925-	2J5J016	2J15151	2J200S6	S.96	cpw
3csndium	4571	-992J--	-6S-6-0	-0JJ054	-095S05	5.1-	cpw
3csndium	4572	1-4402	1-2145	1-5600	1-4S9J	1.-4	cpw
3ePenium	J271	J0J5S	J9J-5	J9S09	JJ921	1.1-	cpw
3ePenium	0072	26JS	2040	2040	2025	1.41	cpw
3ePenium	0J72	J921	J949	J94J	J9-9	S.1J	cpw
3iPcon	2J71	49290924	5S-2S-41	49121256	49509J4S	1.-1	cpw
3iPer	1S071	6-9--J0	65S94S4	6-00S0J	642662-	1.12	cpw
3iPer	1S971	5941J0J	626-6J5	6S5412S	6SJ6561	2.6J	cpw
3odium	2-72	19000194	19J9450S	1994J-24	19J0--62	S.44	cpw
3trontium	J671	-546JJ-9	-6S4-9-6	-5J51164	-50J09JS	S.J2	cpw
3trontium	JJ71	-1S14J-49	-1200SJS0	-1-04J099	-12222651	S.6S	cpw
3uPPur	-471	00S125	0J2626	069226	00-992	S.90	cpw
Terbium	15971	911-214	J2SSJ61	J050655	J69S500	5.29	cpw
Terbium	15972	-00S19S	-JSJ621	-JS1106	-09--29	S.54	cpw
ThsPPum	2S-71	50590S0	5J260-5	50-0J9J	50040JS	S.JS	cpw
ThsPPum	2S571	1-0J1600	1-00S-0-	1-54-165	1-69J4S5	S.9J	cpw
Tin	11J71	4S-0JJ9	4156112	4S609J0	4SJ0-29	1.5S	cpw
Titsnium	4071	6J0SJ-4	6999012	699J145	69562-1	1.S6	cpw
Ursnium	2-J71	2S560521	21-J-JS5	2S666J55	2SJ02020	2.1-	cpw

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CPrent 3smpPe ID :	3S0	DiPtion Fsctor :	1
Dste & Time Acquired :	2S2-7S0712 12:20:1J	DstsFiPe Nsme :	S1SCAL3.d

8srsmeter	Msww	C831	C832	C83-	C83Mesn	C83R3D	Unitw
Vsnsdium	5172	1S542J4	1S49516	1S6S625	1S54JS9	S.5-	cpw
Ytterbium	10271	225	160	1J-	192	15.6J	cpw
Ytterbium	10272	1S6	144	110	122	16.-9	cpw
Ytterbium	10671	25S5S	26S1S	25J59	256-9	2.S1	cpw
Ytterbium	10672	19426	19J1S	19142	19459	1.02	cpw
Yttrium	J971	114S90-9	1SSJ-015	111S-092	1SJ65049	6.-9	cpw
Yttrium	J972	11J6J02	119J552	11J4S42	11J9J22	S.65	cpw
Zinc	6672	251-S4S	25--J59	255S246	25-2-J2	S.04	cpw
Zirconium	9S71	J49SJ4-	JJ19S59	J4J5965	J59J622	2.22	cpw
Zirconium	9171	192192S	1909S-0	1904450	195J401	1.62	cpw

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LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
APminium	20 2	751S- 1-	7- - S91-	4S2- 416	7575510	1.5-	cpw
Antimony	121 1	2052	269S	4S26	7196	27.50	cpw
Arwenic	09 2	45	97	04	95	22.- 5	cpw
Bsrium	179 1	4157	77S5	7- 06	7052	11.- 1	cpw
Bsrium	170 1	0176	6076	6- S2	6- 51	7.11	cpw
BeryPium	5 1	254	2S1	252	262	2S.21	cpw
Biwmuth	2S5 1	9949666	4- 51027	9995265	9772215	0.16	cpw
Biwmuth	2S5 2	2072110	2015000	2047792	2071045	S.47	cpw
Bromine	- 1 1	9657	0S44	0576	6- 51	16.75	cpw
Csdmium	1S- 1	1S-	05	1SS	56	19.6-	cpw
Csdmium	1S6 1	74S1	7129	7942	7796	6.71	cpw
Csdmium	111 1	1SS2	- 04	5S1	529	0.2-	cpw
CsPcium	47 1	6999944	6- 64624	60- 0- 64	6076S11	2.75	cpw
CsPcium	44 1	1S- 900549	11145S1S6	11S411591	11S16SSS1	1.74	cpw
Csrbon	12 1	225267S	2767159	2474219	2767740	7.SS	cpw
Csrbon	12 2	74719	74- 09	79792	74- 40	1.45	cpw
ChPorine	79 1	172650	17- S0S	17- 4S-	176751	2.79	cpw
ChPorine	79 2	1110	1S9-	12- 7	1197	1S.17	cpw
Chromium	92 2	- 9S6	- - 25	- 947	- 626	2.S9	cpw
CobsPt	95 2	6119	6141	6S99	61S4	S.07	cpw
Copper	67 2	0719	0229	0252	020-	S.64	cpw
Dywprowium	196 1	1SSS	1S60	11SS	1S96	4.- 2	cpw
Dywprowium	196 2	450	9SS	450	45-	S.75	cpw
Erbium	164 1	229	2S-	19S	154	2S.26	cpw
Erbium	164 2	16S	50	60	1S-	44.21	cpw
GsdoPhium	16S 1	12- 7	1S9S	1210	11- 7	1S.16	cpw
GsdoPhium	16S 2	- - S	090	097	050	5.S6	cpw
HoPmium	169 1	- 9- 9S5S	04- 224S	- 0461- S	- 20110S	- .72	cpw
HoPmium	169 2	7- 92097	7- 42- 19	7- 2- - 9S	7- 41407	S.71	cpw
Indium	119 1	9- S- 415	9S59205	9- 00- 50	9957- 69	0.04	cpw
Indium	119 2	- 0674-	- 60509	- 6- 51-	- 01S- S	S.97	cpw
Iron	94 2	16149S95	1615S744	19- 17045	16S4501-	1.2-	cpw
Iron	96 2	2511- S- 91	2500S0062	2- 55S- 0S6	25257244S	1.47	cpw
Iron	90 2	046629S	0706205	045S059	0444441	S.- 1	cpw
Krypton	- 7 1	224	225	296	276	0.41	cpw
Lesd	2S6 1	12640	11691	179S4	126SS	0.76	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpPe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CPent:3smpPe:ID:J	3S-	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiPe:Nsme:J	S11CAL3.d

8srsmeter	Mswv	C831	C832	C837	C83Mesn	C83R3D	Unitw
Lesd	2S0 1	12415	5719	1S599	1S-56	14.29	cpw
Lesd	2S- 1	99-26	4929S	91---	9S5--	1S.4-	cpw
Lithium	6 1	2S6427-	1-16249	2S4424-	150451S	6.5-	cpw
Msgnewium	24 2	94544-0-	9429S5S9	94219150	9440S720	S.06	cpw
Msngsnewe	99 2	9701	9764	9444	9757	S.-2	cpw
MoPybdenum	54 1	-262	95S2	-9-0	09-7	15.77	cpw
MoPybdenum	59 1	1S541	-27-	5517	5650	14.S0	cpw
MoPybdenum	56 1	1260S	57S4	12477	11465	16.7-	cpw
MoPybdenum	50 1	6949	911S	6--9	61-S	19.29	cpw
MoPybdenum	5- 1	1-45-	11475	10290	19071	27.56	cpw
Neodymium	19S 1	2SS	2SS	2SS	2SS	S.SS	cpw
Neodymium	19S 2	6S	77	60	97	77.S-	cpw
NickePP	6S 2	79S0	7720	7294	7767	7.--	cpw
8howphoruw	71 2	109	29-	210	210	15.27	cpw
8otswwium	75 2	1072717-	10204192	1070-S65	1072912S	S.7S	cpw
Rhodium	1S7 1	990S7SS	4-5-995	9491746	97S6079	6.09	cpw
Rhodium	1S7 2	264S5-1	2675-S-	26---16	2696979	1.S9	cpw
3csndium	49 1	70-4706	772610S	700S-46	7620171	0.15	cpw
3csndium	49 2	174042	177066	177SS2	177-70	S.69	cpw
3ePenium	-2 1	979	420	422	462	17.00	cpw
3ePenium	00 2	1S	10	17	17	29.S1	cpw
3ePenium	0- 2	61	96	52	0S	20.55	cpw
3iPcon	2- 1	645621	054140	-79S61	0956S5	12.-7	cpw
3iPer	1S0 1	11S-	1209	11SS	1161	-.9S	cpw
3iPer	1S5 1	1109	1S9-	552	1S09	-.67	cpw
3odium	27 2	594-0729	5647-SSS	540117S4	59949947	S.51	cpw
3trontium	-6 1	11567	-9-0	1S167	1S27-	16.9S	cpw
3trontium	-- 1	-5917	99254	-2-06	09-54	27.51	cpw
3uPur	74 1	209611	201049	2010-S	207S49	S.-1	cpw
Terbium	195 1	--22442	0972SS5	-6S7-04	-715442	-.7S	cpw
Terbium	195 2	7022214	700416-	7-S265S	7066790	1.S-	cpw
ThsPium	2S7 1	1652	199S	16SS	1614	4.49	cpw
ThsPium	2S9 1	44-9	7995	4791	4172	12.11	cpw
Tin	11- 1	796S	7S10	74S1	7726	-.7-	cpw
Titsnium	40 1	2160	1229	27SS	1-5-	7S.-5	cpw
Ursnium	27- 1	4700	74S1	4495	4S05	14.44	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	Operstor:J	aswl sP
Lsb:3smpRe:ID:J	3S-	Inwtrumnet:Nsme:J	8-
CRent:3smpRe:ID:J	3S-	DiRtion:Fsctor:J	1
Dste:&:Time:Acquired:J	2S27 S0 12:12J7SJ16	DstsFiRe:Nsme:J	S11CAL3.d

8srsmeter	Msww	C831	C832	C837	C83Mesn	C83R3D	Unitw
Vsnsdium	91 2	7-0	770	4SS	704	-.52	cpw
Ytterbium	102 1	129	229	110	196	7-.06	cpw
Ytterbium	102 2	61	61	0-	60	14.44	cpw
Ytterbium	106 1	1777	1209	1960	1752	11.S5	cpw
Ytterbium	106 2	56S4	5-47	5957	56-S	1.46	cpw
Yttrium	-5 1	1S526S72	547-012	1S-0474S	1S417S2-	-.11	cpw
Yttrium	-5 2	11527S0	12S7-71	12S1S66	1155S6-	S.9S	cpw
Zinc	66 2	2-00	2000	2-7S	2-2-	1.00	cpw
Zirconium	5S 1	9S1S	4774	9026	9S27	17.-6	cpw
Zirconium	51 1	12SS	11SS	12SS	1160	4.59	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flabolrlas	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiqFaMlO.Das	1
TlilAacqlatOoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNalolrlas	S1 3-7Uu

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
dNerqFqer	20J2	214yy	2Sm y	2Syy4	21110	1U6S	O&P
dFiq .Fh	121J1	ymmy4m	1SSmy1S	yy64m1	yym11:	1US1	O&P
dDPlFqO	0 J2	2m24	2m4mm	2m4S:	2m 0y	SU44	O&P
BlDqer	1: J1	1SmS24	1Sy:S1	111140	1Sy4y1	1U4:	O&P
BlDqer	1:0J1	1yS00y	1yS1m2	1my:4y	1yS1S:	SUm	O&P
BlDmNqer	yJ1	1:6S62	1:61S2	1:m6:6	1:6y::	1USm	O&P
BqPr eiE	2SyJ1	6:2:S::	64y6S62	64664 2	642m 16	1U44	O&P
BqPr eiE	2SyJ2	:12mS0y	:1:0:m	:1m 4 y	:1 S:S0	SUym	O&P
BDr qFl	m1J1	4110	:y y	4S10	4S:1	1Uyy	O&P
-lnr qer	1SmJ1	mm 2	mm2m	m011	m0yS	SU0m	O&P
-lnr qer	1S6J1	1 :y2	1 0:4	14mSS	1 :Sy	:USy	O&P
-lnr qer	111J1	124y04	12y022	120 1S	1204S2	1Um0	O&P
-lNqer	4:J1	2m mS	2y:12	2m Sm	2mmSS	1U	O&P
-lNqer	44J1	4my4y4	4y6:11	SS:1S	4y :02	1U1S	O&P
-lDp.F	12J1	26:S002	26 m1 2	2022y m	260S620	1U00	O&P
-lDp.F	12J2	:4:66	::464	:4 2	:411m	1U6m	O&P
-ENDqFl	: J1	1S2Sy2	ymm 0	1SS041	1SS 0	1U6:	O&P
-ENDqFl	: J2	0 m	0SS	660	0Sm	6U	O&P
-EDr qer	2J2	1 1:my	1 1SS1	1 SyS4	1 1Sym	SU10	O&P
-.plN	yJ2	20y2S1	20:624	206:1m	206:m1	1US1	O&P
-.&&lD	6:J2	21my S	2104y2	212 m2	216:42	1U4	O&P
ThP&DPqer	1 6J1	S	m	m	6	m6U6S	O&P
ThP&DPqer	1 6J2	:	0	S	:	1SSUS	O&P
GDpqer	164J1	42	1Sm	S	60	4U4y	O&P
GDpqer	164J2	2:	:0	20	2y	24US:	O&P
HIn.NqFqer	16SJ1	60	110	0	m6	:1U11	O&P
HIn.NqFqer	16SJ2	1:0	14S	1 0	144	0U42	O&P
K.Nlqer	16 J1	m00 Sm	y1Sym 4	mm m S6	my144m2	1Uy	O&P
K.Nlqer	16 J2	4S0 6:1	:y11y0:	4S00yS:	4S21m 6	2U0	O&P
3Fnqer	11 J1	64 0S:6	60y:y06	66 mm	66:6622	2U6	O&P
3Fnqer	11 J2	y6y606	y024 2	y0 60	y026S1	SU1	O&P
3DF	4J2	14Sy::	1:m61S	14S4 2	1:yyym	SUm	O&P
3DF	6J2	262 6:2	2 m 222	26226:y	2611164	SUm6	O&P
3DF	0J2	6:1S6	61my	6:22:	62041	1U10	O&P
gDh&i.F	m J1	2 2	2:0	216	2:	0U04	O&P
LIIn	2S6J1	1SS006	1S2:2 S	1S24:04	1S1m46:	SUy1	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor plDas	LB1264S0	C&lDi.Das	wlP8lN
Llpatlr &NlaBTasa	3-7S0	3FPlDer Flia blr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacq lad OoedDnas	2S2:JS0J12a1:s14sS:	TlilMqNabl r las	S1 3-7Uh

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9t T	RFqP
LlIn	2S0J1	m621 :	m ::4	m62:S6	m yy:1	SU46	O&P
LlIn	2SmJ1	424my62	4246mS1	42221 S	42:y:S	SU	O&P
LqEqer	6J1	2424066	2 1012:	241m224	24 ::01	2U2	O&P
5lkFlPqer	24J2	1: 0ym	1:4 6m	1: yS	1: 424	SU	O&P
5lFklFlPl	J2	0 S6y	0 :60	0 44m	0 2y	SU20	O&P
5.NlpnlFer	y4J1	4::	:0	4 m	422	1SU1:	O&P
5.NlpnlFer	y J1	:10	4SS	2m	:::	1mUS:	O&P
5.NlpnlFer	y6J1	40	6::	60	y4	10U0	O&P
5.NlpnlFer	y0J1	10	210	10	1my	12U0:	O&P
5.NlpnlFer	ymJ1	60	6SS	6Sy	y2	:U0:	O&P
bl.nhr qer	1 SJ1	1:	0	S	0	yyUym	O&P
bl.nhr qer	1 SJ2	S	S	S	S	SUSS	O&P
bqOvlN	6SJ2	m102:	0y66	mSSy4	mS4y4	1U	O&P
uE.P&E.DeP	:1J2	260	22	210	2:6	11U	O&P
u.ilPPqer	:yJ2	1 2 y:	1 S46:	14yy:2	1 Syy6	SUy:	O&P
9E.nqer	1S:J1	64 1	6006m 0	6 mm 44	66S m6	2U40	O&P
9E.nqer	1S:J2	:16m62S	:1m2S62	:1m20ym	:100m20	SU2	O&P
t O Fnqer	4 J1	41:414y	4:0m 21	42my1:4	426026m	2UyS	O&P
t O Fnqer	4 J2	1401	146226	1404yy	146y6S	SU4	O&P
t lNlFqer	m2J1	2SSmm	2S m	2S6	2S4:4	1U4m	O&P
t lNlFqer	00J2	610	64S	610	624	2U16	O&P
t lNlFqer	0mJ2	212y	2141	214m	214S	SU4	O&P
t qNlD F	2mJ1	1y2S0:	1mm2ym	1m66y6	1mySS22	1U46	O&P
t qNlD	1S0J1	:26m16	:::4SS	::S6y0	::S:S4	1USS	O&P
t qNlD	1SyJ1	:S0S01	:1602y	:1:4 y	:1242S	1U0	O&P
t .nqer	2:J2	4:40m	420y6S	4:S12S	4:Sy	SUm1	O&P
t iD Fiqer	m6J1	11Sm	060	m42	yS6	1yUm	O&P
t iD Fiqer	mmJ1	4yS1	4106	4110	4:ym	yUy:	O&P
t eNvD	:4J1	:S S2m	:S 622	:S01y2	:S y40	SU0	O&P
cl Dpqer	1 yJ1	mm446 4	y6: Sm	y41yyS0	y2yymm2	4Uy	O&P
cl Dpqer	1 yJ2	4S:0SS2	4S102S2	:y:6m02	:yy0S2	1U:	O&P
cEl NqEr	2S:J1	12 0m1y	120S::2	12:1y1	12 :: 6	1U6	O&P
cEl NqEr	2S J1	:Sy6m62	:12yy:1	:141 41	:12200m	SU04	O&P
cqF	11mJ1	1 m	1:::	1210	1:0m	1:U6S	O&P
cqlFqer	40J1	22	210	2SS	214	Uy	O&P
RDFqer	2:mJ1	242	1 m	142	1m1	2yU60	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabber plDas	LB1264S0	C&lDi.Das	wlP8lN
LIpatlr &NlaBTasa	3-7S0	3FPlDer Fliablr las	um
-NqFiatlr &NlaBTasa	3-7S0	TqNiq FaM O.Das	1
TlilAacqlatObedDnas	2S2:JS0J12a1:s14sS:	TlilMqNablr las	S1 3-7Um

ulDrlilD	5lPP	-ut 1	-ut 2	-ut :	-ut 5llF	-ut 9tT	RFqP
7lFlnqer	1J2	111my6	111y26	11: Sy	112444	SUm2	O&P
YiilDqer	102J1	S	60	m	m	14U2y	O&P
YiilDqer	102J2	2m	10	:y	2m	:yUy	O&P
YiilDqer	106J1	1110	110	122	1102	4U6:	O&P
YiilDqer	106J2	yy6	11S20	1S21	1S4S2	U4	O&P
YiiDqer	myJ1	116ym01:	11yS4646	122:mS06	11y4014	2U2m	O&P
YiiDqer	myJ2	1:S04y	12m14Sm	12y662y	12y 100	1US1	O&P
ZqFO	66J2	20 4	226:	10y1	226y	SUy2	O&P
ZqD.Fqer	ySJ1	62	642	42	6S:	mUmy	O&P
ZqD.Fqer	y1J1	2 S	2 m	2 S	2 :	1UyS	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LIpJ.tlr &NJ.JBTJaJ	3-BS07	3FPlDer FliJ.blr lJa	um
-NJFiJ.tlr &NJ.JBTJaJ	3-BS07	TqNiqFJ.RlO.DJa	1
TlilJAJ.cqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJ.blr lJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
dNer qFqer	20:2	11S	1S1	s2	1S1	m104	O&P
dFiq .Fh	121:1	627	7s2	m7S	6ms	2SM4S	O&P
dDPlFqO	07:2	12	1S	7	s	4SN36	O&P
BlDqer	1 7:1	7S	m	07	6s	24Nsm	O&P
BlDqer	1 0:1	s2	m	127	1SS	22N37	O&P
BlDnNqer	s:1	66	6s	74	6	12N0m	O&P
BqPr eiE	2Ss:1	670s072	64s6S62	64S01s	64s4 7	1M	O&P
BqPr eiE	2Ss:2	S0m4S6	Ss11SS	141742	1S 6m	1N3m	O&P
BDr qFl	m1:1	s10	s7s	4S 4	s0S	1M4s	O&P
-lnr qer	1Sm1	10	m	2s	2m	0N04	O&P
-lnr qer	1S6:1	s26	71	7s2	62	0N40	O&P
-lnr qer	111:1	41m	46	ms	m4	sM42	O&P
-lNqer	4 :1	2S0	242	2S4	21m	sM11	O&P
-lNqer	44:1	2177	1m12	212S	2S2s	SM7s	O&P
-lDp.F	12:1	22Ss 6S	217m101	216ss	210s174	1N2	O&P
-lDp.F	12:2	202s	26sSS	20 7s	201m4	SN41	O&P
-ENDqFl	7:1	m61 s	mSm42	mSmSs	m27s6	N01	O&P
-ENDqFl	7:2	660	67m	6	67	2N06	O&P
-EDr qer	72:2	1S0	1S4S	1S6	1S7s	1N02	O&P
-.plN	7s:2	s	70	1SS	m	2mN3S	O&P
-.&&lD	6 :2	67	6SS	610	62	4Mm	O&P
ThP&DPqer	176:1	m	m	S	6	m6N0S	O&P
ThP&DPqer	176:2	1S	0	S	6	s1N04	O&P
UDpqer	164:1	7S	42	42	44	1SM12	O&P
UDpqer	164:2	0		20	2	17MS	O&P
Gln.NqFqer	16S:1	07	s2	s2	m6	11M1m	O&P
Gln.NqFqer	16S:2	1S0	12S	14S	122	1 N0	O&P
H.NqNqer	167:1	s1s2 72	sSm21S0	ms462 2	sS0 764	1M6	O&P
H.NqNqer	167:2	smmsS0	sms4S6	sm1m6s	sm6020	SM11	O&P
3FnqNqer	117:1	6600 m	66 S4	6741226	6610210	1N37	O&P
3FnqNqer	117:2	s6 20s	s777S0	s4m2 s	s77607	SN0s	O&P
3DF	74:2	461	42m	460	472	4N06	O&P
3DF	76:2	60	12	112	2SS	4M71	O&P
3DF	70:2	m	s4	1SS	s	sM16	O&P
KDh&i.F	m :1	17	24s	26s	200	12N27	O&P
LIln	2S6:1	1S	s10	ss7	sm2	6N37	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJ.Jber plDJa	LB1264S0	C&lDi.DJa	wlP8lN
LlpJtlr &NJ3TJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NJFiJtlr &NJ3TJaJ	3-BS07	TqNiqFJRlO.DJa	1
TlilJAJcqlJdOoedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-utytT	5FqP
LlIn	2S0:1	m2m	07S	0ms	0ms	4Ns	O&P
LlIn	2Sm1	41SS	4S2	7s7	sS6	6Ns0	O&P
LqEqer	6:1	24 6472	244S420	2 s21 S	242 SS	1M11	O&P
9lgFlPqer	24:2	s2	1Sm	110	1S6	12N36	O&P
9lFglFlPl	77:2	4S	7S	70	4s	10M16	O&P
9.NpnlFer	s4:1	1s2	17m	110	176	24M16	O&P
9.NpnlFer	s7:1	m	m		42	s1N06	O&P
9.NpnlFer	s6:1	1	1	127	1 1	N0s	O&P
9.NpnlFer	s0:1	42	m	42	1	62Nds	O&P
9.NpnlFer	sm1	07	60	1SS	m1	21N7	O&P
bl.nhrqer	17S:1	2S	2S	0	16	4sM10	O&P
bl.nhrqer	17S:2	S	S	S	S	SN3S	O&P
bqOklN	6S:2	70	6S	4S	72	2SM72	O&P
uE.P&E.DeP	1:2	210	10	210	27S	2 N3s	O&P
u.ilPPqer	s:2	1S601	1S221	1S4S4	1S4 2	2M10	O&P
yE.nqer	1S :1	6s740S0	6771m74	6647747	6010 6m	M14	O&P
yE.nqer	1S :2	17202m	SmmSsS	S711s4	Ss0 0	1N06	O&P
tOlFnqer	47:1	4 mSmSs	4242S62	4 120m2	4 11mm4	1N61	O&P
tOlFnqer	47:2	147 1	14 S67	14 40s	14 s7m	SM14	O&P
tlNlFqer	m2:1	:4s	1s	:1m	:16	:21 M7	O&P
tlNlFqer	00:2		S	S	1	10 N21	O&P
tlNlFqer	0m2	16	22	2S	1s	17M1S	O&P
tqNlD F	2m1	100s1s	104 6s	10SsS	104 s0	2N31	O&P
tqNlD	1S0:1	2	7S	10	SS	2SN3	O&P
tqNlD	1Ss:1	2m	160	SS	27S	2sN36	O&P
t.nqer	2 :2	24s22	2 s47	24201	24 0s	2N34	O&P
tiDFiqer	m6:1	727	707	4	711	14N36	O&P
tiDFiqer	mm1	14	m7S	m7S	1S47	2N27	O&P
teNeD	4:1	S4Ss	S20 0	S70 6	S41ms	SM4s	O&P
clDpqer	17s:1	s147146	s m627	s122426	s210s42	1N7s	O&P
clDpqer	17s:2	s 66sS	s16062	m00 Ss	s1S27	SN70	O&P
cElNqer	2S :1	642	460	742	77S	17Nd6	O&P
cElNqer	2S7:1	1 60	14SS	12s2	1 7	4M1S	O&P
cqF	11m1	1SSS	1S27	11	1S7	6N0	O&P
cqlFqer	40:1	1SS	17S	107	142	26Nd6	O&P
5DFqer	2 m1	07	10	m		1SmN0	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJber plDa	LB1264S0	C&lDi.Da	wlP8lN
LlpJlr &NJBTJaJ	3-BS07	3FPlDer FliJblrlJa	um
-NqFiJlr &NJBTJaJ	3-BS07	TqNiq FJRlO.Da	1
TlilJAJcqlJdObedDnJa	2S2 :S0:12J1 a10a1s	TlilRqNJblrlJa	S16- - BUM1

ulDrlilD	9lPP	-ut 1	-ut 2	-ut	-ut 9llF	-ut ytT	5FqP
VlFlnqer	71:2	7S	1S	1	24	sSMS	O&P
YiilDqer	102:1	s2	7m	07	07	22M2	O&P
YiilDqer	102:2	2m	44	11	2m	6SM1	O&P
YiilDqer	106:1	12	1707	12Sm	1 s	17MS	O&P
YiilDqer	106:2	sm4	1S 01	1SSSs	1SS04	2M6m	O&P
YiiDqer	ms:1	12S70402	11s061Ss	11s4661s	11ss 4SS	SM4m	O&P
YiiDqer	ms:2	12mssS6	1264S 6	1276m42	120S261	1M0	O&P
ZqFO	66:2	14S	14	1s	17s	1mMS	O&P
ZqDO Fqer	sS:1	4s2	7m	4s2	722	1SM14	O&P
ZqDO Fqer	s1:1	7S	7m	m	64	20M16	O&P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
ur p q qr p	20a2	J09S: 4:	Jbb: 22:	J922S62	Jb6: 944	1F0:	d&8
. iqp C. y	121a1	69b:	6994	646S	6b1J	4F49	d&8
t8D. qpl	0: a2	0:	bJ	06	0b	: F 9	d&8
BPtqr p	1J: a1	16SS	1: : S	1642	1: 90	2Fb0	d&8
BPtqr p	1J0a1	26b4	26S9	2042	260b	2F S	d&8
BDtyuqr p	9a1	419	44:	Jb9	410	6F04	d&8
Bq8p r ih	2S9a1	: 9: 14J2	: 9: S9S4	: 990120	: 9664b0	SF44	d&8
Bq8p r ih	2S9a2	29SJ9bS	296JS16	2b4: J: 9	29S411b	2FSJ	d&8
BtCp q D	b1a1	J: 26	J: b4	J910	J606	: F0:	d&8
- Pop qr p	1Sba1	1646	1: SS	1: Jb	1: 61	4Fb:	d&8
- Pop qr p	1S6a1	J: : 1	J692	JJ2:	J: 2J	: F2:	d&8
- Pop qr p	111a1	1SS0	122b	994	1S06	12F2S	d&8
- Pudqr p	4Ja1	1J06b06	141: SJ2	14J12: 1	14S002S	1F9b	d&8
- Pudqr p	44a1	224b6291	22611044	2204bSb:	2261: J0J	SF b	d&8
- Ptl C.	12a1	11JS2: bS	1126bS04	1122JJ00	11264600	SFJ:	d&8
- Ptl C.	12a2	14Jb16	1421b4	14S19b	142S66	1F2b	d&8
- huCtq D	J: a1	6J: 1262	00SJ9: 6	9S99: 10	001b24:	10FbS	d&8
- huCtq D	J: a2	bb: 62	949: J	99140	94221	: F66	d&8
- htCp qr p	: 2a2	2919J	2b6J:	2902b	291b:	1Fb0	d&8
- Cl Pui	: 9a2	J104	J19S	J110	J16S	1F22	d&8
- C&&Dt	6Ja2	1: : 49	1: bS2	1: J: 2	1: : 60	1F4:	d&8
Ty8&tC8qr p	1: 6a1	S	b	60	2:	14: FJ1	d&8
Ty8&tC8qr p	1: 6a2	1J	J	1J	1S	: 0F0:	d&8
Etl qr p	164a1	: S	1Sb	1SS	b6	J6F64	d&8
Etl qr p	164a2	40	4S	J0	41	12FJ9	d&8
GPoOuqqr p	16Sa1	60	bJ	142	90	4SF S	d&8
GPoOuqqr p	16Sa2	110	1JS	1: S	1J2	12F69	d&8
HOup qr p	16: a1	b6S0194	b0: 04b:	bb6: 02J	b04J460	1F4b	d&8
HOup qr p	16: a2	JbJ101J	Jb: 9: : S	J9b2620	Jb91290	2FS6	d&8
3 oqr p	11: a1	6140J: J	614: 4S1	610J299	61: : J: 1	SF2:	d&8
3 oqr p	11: a2	b9J916	b9J1b6	9S21: b	b9642S	SF 6	d&8
3tC.	: 4a2	6: 66bb:	64S0bb1	6461: S0	640b0: b	1F2:	d&8
3tC.	: 6a2	110290: 42	11b246J14	110J9b2J6	110640J64	SF44	d&8
3tC.	: 0a2	JS: S4Jb	JSb: 4J:	JS0: Jb9	JS0S421	SF 9	d&8
Kty&iC.	bJa1	262	2J1	216	2J0	9F90	d&8
LDPo	2S6a1	210bS	2JS21	24496	2JS99	: Fb9	d&8

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Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2SW24	TPiPUqqDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	109: 0	1bJbS	1bJbS	1b2J9	1FJ4	d&8
LDPo	2Sba1	b401:	b009:	9S: J6	b06b2	JFJ2	d&8
Lqihqrp	6a1	2JS4: bJ	2JS469b	2204691	22946: 0	SF0:	d&8
RPg. D8qrp	24a2	1S446: Sb	1S: 49692	1S: 10bJ0	1S: S4609	SF: S	d&8
RP. gP. D8D	: : a2	: 494	: 6J1	: 69:	: 6S0	1Fb2	d&8
RQyl oD. r p	94a1	20SS: 44	2bS: 6S4	2b229: 2	2006J60	2FJ9	d&8
RQyl oD. r p	9: a1	4b2S1SS	40: 6b6:	496J661	4b46b0:	2F19	d&8
RQyl oD. r p	96a1	: 10S09:	: 14b92:	: 296SS0	: 2S: 24J	1F: 2	d&8
RQyl oD. r p	90a1	296bJ94	29941J1	JSJ4SS1	299bb42	1F1S	d&8
RQyl oD. r p	9ba1	0006b09	0bS: 9S0	094bbbb	0b4Jb91	1F10	d&8
e DCoyp qrp	1: Sa1	40	: J	2S	4S	44FS9	d&8
e DCoyp qrp	1: Sa2	1S	0	10	11	4: Fb2	d&8
e qdkDu	6Sa2	41J4	4SS0	4220	412J	2F6b	d&8
mhC8&hCtr 8	J1a2	1960J2	1900Sb	196900	1901J9	SF26	d&8
mCiP88qrp	J9a2	601JJ6J	66Sb4: 2	60: b00J	669J: 29	1F1:	d&8
5 hCoqrp	1SJa1	6S20: b2	6S6S: 64	61: JJ6:	6SbS: SJ	1FS0	d&8
5 hCoqrp	1SJa2	2b6S449	29S9911	2bb4J4S	2bb49SS	SFb6	d&8
7 dP. oqrp	4: a1	J9: b406	4S24bJ2	4SS094b	J990Sb6	SFb6	d&8
7 dP. oqrp	4: a2	1J: 1bS	1J4422	1J: 6J4	1J: S0b	SF4:	d&8
7 DuD. qrp	b2a1	11	a	9	:	10: FS0	d&8
7 DuD. qrp	00a2	S	S	S	S	SFSS	d&8
7 DuD. qrp	0ba2	1S	b	1:	11	J2F0b	d&8
7 qqqdC.	2ba1	2bS: 2:	2069S0	200466	20b299	SF0S	d&8
7 qqvDt	1S0a1	2SS	210	260	22b	1: F2J	d&8
7 qqvDt	1S9a1	142	260	160	192	J4F: 1	d&8
7 Coqrp	2Ja2	19b06929	19662S64	1906b4bS	190691: b	SF: 4	d&8
7 itC. iqrp	b6a1	46: 9:	46J44	40941	4696S	1FbJ	d&8
7 itC. iqrp	bba1	4141S6	411S: 1	41Sb: 6	412SS4	SF44	d&8
7 r ufir t	J4a1	222: 1: 6	2249409	22622: J	224: 629	SFb4	d&8
cDtl qrp	1: 9a1	b494299	b9b0992	916J0: S	bbb2S14	JF91	d&8
cDtl qrp	1: 9a2	JbJ41: 1	Jb00126	Jb20: 20	Jb4626b	SF0S	d&8
chPuqrp	2SJa1	14Sb	142:	11: b	1JJ1	11F2J	d&8
chPuqrp	2S: a1	26: 9	J6S9	2b92	JS: J	16F22	d&8
cq	11ba1	24S9	2S60	2b92	24: 6	16Fbb	d&8
cqiP. qrp	40a1	1J0JS22	14J0J44	14J1SSb	141J092	2F: 1	d&8
MtP. qrp	2Jba1	62:	4bJ	: : S	: : J	12Fb2	d&8

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Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 S0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 S0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2Sv24	TPiPUqpDse Pp Dsw	S103 7 Fo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	20J	10J	2S0	21b	2JFJb	d&8
YiiDtl qrp	102a1	2:	42	60	44	40F19	d&8
YiiDtl qrp	102a2	22	22	22	22	SFSS	d&8
YiiDtl qrp	106a1	1S92	1210	1242	11bJ	6F09	d&8
YiiDtl qrp	106a2	9J06	9626	949J	949b	1FJ2	d&8
Yiitqrp	b9a1	11Sb229:	1141: 199	11J9J0J6	11290S00	1F6:	d&8
Yiitqrp	b9a2	119bJJS	1212JS6	12S1S64	12SJ9SS	SF62	d&8
Zqd	66a2	2000	2b04	2660	200J	JF0J	d&8
ZqdC. qrp	9Sa1	: : b	40:	0Sb	: b1	2SFJ0	d&8
ZqdC. qrp	91a1	1: b	1JJ	1: b	1: S	9F62	d&8

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LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3 7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3 7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqqDse Pp Dsw	S1b3 7BFo

mPtPp DiDt	R P88	- m7 1	- m7 2	- m7 J	- m7 R DP.	- m7 5 7 T	M. qi8
ur p q qr p	20a2	Jbbb426	Jb696Jb	Jb0: 2S6	Jb000: 0	SF2:	d&8
. iqp C. y	121a1	9b4bS	1S20: 2	1S41bb	1S1bS0	2F92	d&8
t8D. qpl	0: a2	20S0	200:	204S	204S	1F24	d&8
BPtqr p	1J: a1	211b4	2JS12	22061	22J19	4F44	d&8
BPtqr p	1J0a1	J91bJ	412: :	J9JSb	J991:	2F91	d&8
BDtyuqr p	9a1	24b1b	2: J14	2: 624	2: 2: 2	1F61	d&8
Bq8p r ih	2S9a1	: 694J61	624S: 04	611: J: 2	6S1606J	4F06	d&8
Bq8p r ih	2S9a2	2914112	JSS6bJ4	2946b02	29: : 9J9	1F. 9	d&8
BtCp q D	b1a1	J: 92	J942	J092	J006	4F6:	d&8
- Pop qr p	1Sba1	2942	J110	JS92	JS: S	JF1S	d&8
- Pop qr p	1S6a1	: J1b	: 6: 1	: 64J	: : J0	JF4J	d&8
- Pop qr p	111a1	2J4Sb	24216	2420b	2J960	2FSJ	d&8
- Pudqr p	4Ja1	14201b4	14: : 2b9	1444J90	144229S	SF9b	d&8
- Pudqr p	44a1	22: 6b2: 2	2J1b0024	2J641bJ2	2J1J26SJ	2FJJ	d&8
- Ptl C.	12a1	111bJJbS	11622949	1166J0: b	1149SS29	2FJ2	d&8
- Ptl C.	12a2	14: 40:	14: 0b6	14: 1Jb	14: 466	SF22	d&8
- huCtq D	J: a1	1SJJ411J	12446S2J	1J94411S	1224141:	14Fb2	d&8
- huCtq D	J: a2	11b2S6	12: J91	129: J:	124J00	4F61	d&8
- htCp qr p	: 2a2	: 02S1	: 01bS	: 0bS6	: 0J96	SF62	d&8
- Cl Pui	: 9a2	: J296	: 4S22	: 29Sb	: J4S9	1FS6	d&8
- C&&Dt	6Ja2	: : 6J9	: : 404	: : 264	: : 4: 9	SFJ4	d&8
Ty8&tC8qr p	1: 6a1	2:	: S	b	2b	0: F. 1	d&8
Ty8&tC8qr p	1: 6a2	1J	10	2J	1b	2bF64	d&8
Etl qr p	164a1	92	2:	92	69	: : F4J	d&8
Etl qr p	164a2	J0	20	4J	J6	2JF. b	d&8
GPoCuqqr p	16Sa1	12:	110	bJ	1Sb	2SFJ:	d&8
GPoCuqqr p	16Sa2	12J	1S0	1S0	112	bF. b	d&8
HCup qr p	16: a1	b411122	91: : 2: 4	b66024:	b044: 4S	4FJ2	d&8
HCup qr p	16: a2	J964266	J9906S0	4SSJS0:	J9bbJ16	SF. J	d&8
3 oqr p	11: a1	: bS: 4J4	64: 94J4	61S2S: 0	6122JSb	: FJ:	d&8
3 oqr p	11: a2	9S6b12	9S9104	91: J9J	91S46S	SF49	d&8
3tC.	: 4a2	66S: 120	6619S: 4	60: : 66J	66: 994b	1F2:	d&8
3tC.	: 6a2	12S4440J9	1210S19: S	12J4101: b	121b: 4616	1F22	d&8
3tC.	: 0a2	JS662: 4	JSb: 2b9	J1SJ: 1S	JSb: S1b	SF6S	d&8
Kty&iC.	bJa1	222	2: :	260	24b	9FJ6	d&8
LDPo	2S6a1	12: JJS	1200bS	126949	1266b6	SF9b	d&8

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Inst Id :P8

LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr iqC. sUPdiCtsw	1
TPiDsAsccqp Ds dCr qDosw	2S2JaS0a12s1Jv2Jv1J	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
LDPo	2S0a1	1S: JJ1	1Sb014	1SbS2S	1S0J: :	1F66	d&8
LDPo	2Sba1	4b400:	: S1S06	: SJ640	496499	2FS6	d&8
Lqihqrp	6a1	221b121	2J1J49J	2249641	226S41b	2F1:	d&8
RPg. D8qrp	24a2	1S: bJ0S6	1S04J46S	1Sb2Sb: 1	1S016SS6	1F1J	d&8
RP. gP. D8D	: : a2	199S1	190bS	19J0J	196b:	1F4S	d&8
RQyl oD. r p	94a1	2066S90	292: b40	2bJb214	2b4JJb6	2Fb1	d&8
RQyl oD. r p	9: a1	4bS9b21	499SbS0	4b: bS: 6	4bb622b	1F92	d&8
RQyl oD. r p	96a1	: 211166	: JJ111J	: Jb99b:	: J1S0: :	1F02	d&8
RQyl oD. r p	90a1	2969: 62	JS0: 1S4	JS0b: 1J	JS41S6S	2FS4	d&8
RQyl oD. r p	9ba1	0bS2J99	0b: 22: 2	099: : 9S	0bbJ41J	1F20	d&8
e DCoyp qrp	1: Sa1	20	4S	2S	29	J: F2:	d&8
e DCoyp qrp	1: Sa2	J	1J	J	0	b6F6:	d&8
e qdkDu	6Sa2	10414	10061	10b21	10666	1F24	d&8
mhC8&hCtr 8	J1a2	2SS429	2SS491	19060S	199: JS	SFb1	d&8
mCiP88qrp	J9a2	0S1J2S9	66: bJ1b	696J1b0	6b0b2Jb	2F09	d&8
5 hCoqrp	1SJa1	: b24691	6224121	6S02J22	6S4SJ0b	JFJ4	d&8
5 hCoqrp	1SJa2	2b6J6b0	29: 1S9:	2b: 026J	2b9S6b2	1Fb1	d&8
7 dP. oqrp	4: a1	Jb9b4: S	410: 242	41449: :	4S02bb2	JF0J	d&8
7 dP. oqrp	4: a2	1J69JJ	1JbS91	1J9bJJ	1Jb2b6	1FS6	d&8
7 DuD. qrp	b2a1	10b1	1692	1604	1016	JFJ:	d&8
7 DuD. qrp	00a2	40	6J	6S	: 0	1: F. 6	d&8
7 DuD. qrp	0ba2	21S	19:	2S2	2S2	JF01	d&8
7 qqqC.	2ba1	2b: JS0	2b266:	2bb6b1	2b: : : 1	1FS6	d&8
7 qvDt	1S0a1	12S266	122: 1b	12SJ0J	121S: 2	1FS:	d&8
7 qvDt	1S9a1	11JSJ1	116666	1169: 4	11: : : S	1Fb9	d&8
7 Coqrp	2Ja2	19060612	19bJ6642	2S1: : bS6	1992SS2S	1FS4	d&8
7 itC. iqrp	b6a1	4b619	4b011	490: 6	49S2b	1F29	d&8
7 itC. iqrp	bba1	4S9b22	42SS: 1	426291	41b021	1F99	d&8
7 r ufir t	J4a1	2JS6Jbb	22b06b0	22044S4	22b949J	SF0S	d&8
cDtl qrp	1: 9a1	b: J44b1	9J6S2: 1	9S09S10	b9912: S	4F60	d&8
cDtl qrp	1: 9a2	J0: JS: 4	Jb90: 6:	Jb99J01	Jb49990	2F1b	d&8
chPuqrp	2SJa1	110: S4	121S01	1211bb	119921	1F0:	d&8
chPuqrp	2S: a1	209100	2b: 4: 6	2bb1b2	2b4202	1F62	d&8
cq	11ba1	2J10	26SS	240:	2464	: F06	d&8
cqiP. qrp	40a1	14JS24J	14b16S4	1: 1S0bb	1404211	2F00	d&8
MtP. qrp	2Jba1	: bJ	: : S	6Sb	: b1	: FS4	d&8

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LBser p l Dtsw	LB1264S0	n &DtPiCtsw	l P8NPu
LPl s7Pp &uDs3Tsvs	3-7 BS0:	3 8itr p . Dise Pp Dsw	mb
- uqD. is7Pp &uDs3Tsvs	3-7 BS0:	Tqpr icqC. sUPdiCtsw	1
TPiDsAscqp Ds dCrqDosw	2S2JaS0a12s1Jv2JvtJ	TPiPUqpDse Pp Dsw	S1b3-7BFo

mPtPp DiDt	RP88	- m71	- m72	- m7J	- m7RDP.	- m757T	M. qi8
VP. Poqrp	: 1a2	21206	2S969	21b1J	21J: J	2FSS	d&8
YiiDtl qrp	102a1	: b	: S	JJ	40	26F96	d&8
YiiDtl qrp	102a2	2b	10	2b	24	26F64	d&8
YiiDtl qrp	106a1	1110	1192	1110	1142	JF09	d&8
YiiDtl qrp	106a2	9: 1:	969b	1S21:	9bS9	JF0S	d&8
Yiitqrp	b9a1	111116S4	11: bb: S2	11J0: : 4:	11J: b: : S	2F1S	d&8
Yiitqrp	b9a2	12S0: 2:	12: 4404	12Jb6b1	12JJ: 6S	1F94	d&8
Zqd	66a2	0019	0699	066:	0694	SFJ:	d&8
ZqdC. qrp	9Sa1	: 92	660	0JJ	664	1SF6b	d&8
ZqdC. qrp	91a1	1: S	92	1SS	114	20F0S	d&8

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	T8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
d8be qFdpe	20 2	2S620U2	2S2762U	2S741u6	2S4S2S2	SM0U	Qt l
dFiqe . Fh	121 1	2a441Su	2a6U20a	2a4a777	2aa2USa	SM46	Qt l
dIl pFqO	0a 2	604aa	607a4	6auu6	66uUu	1M71	Qt l
Bwldpe	17a 1	2u40Sa7	2U26171	2u7U026	2u0SU0S	1M60	Qt l
Bwldpe	170 1	4uuuS2a	4UU1172	4U74S6u	4U70042	1M8a	Qt l
Bplh8Bpe	U 1	61S442	6107a0	62SUUa	61626a	SM10	Qt l
Bdqe biE	2SU 1	a40a7Sa	aU22212	auU62a0	a064aU2	4M7a	Qt l
Bdqe biE	2SU 2	2u4S10U	2uSSS22	20074a1	2uS4aa1	1M2S	Qt l
Bl. e qFp	u1 1	41a1	42u4	41U2	42SU	1M62	Qt l
3 wne dpe	1Su 1	a1777	a2711	a210u	a1U41	1M82	Qt l
3 wne dpe	1S6 1	0720U	07Uu2	02uSU	077a0	SM1S	Qt l
3 wne dpe	111 1	61U741	67Sa2u	62U06u	626a46	1M8S	Qt l
3 w8Qdpe	47 1	70a10S0	701uuS2	702S61u	707S706	SM4S	Qt l
3 w8Qdpe	44 1	aU2UUSUU	6S1SS474	aU411a70	aU6S76US	SM07	Qt l
3 wlr . F	12 1	24uu121	2a647U6	2aUa1a2	2a4U227	2M16	Qt l
3 wlr . F	12 2	7aSu4	7a706	7a21u	7a226	SM42	Qt l
3 E8 lqFp	7a 1	7401aU4	7204161	7S0S0US	72021u2	6M12	Qt l
3 E8 lqFp	7a 2	2Sa72	1uu7u	10076	1US7a	0M4S	Qt l
3 El. e dpe	a2 2	01u024	01a426	017S14	01a021	SM4S	Qt l
3 . r w8	aU 2	126S72U	12uu116	12a6aSa	126u710	1M76	Qt l
3 . t t pl	67 2	11SSa20S	11S12uUu	1S6ua0ua	1SUS171u	1M01	Qt l
Thl t l. l dpe	1a6 1	610	6aS	a0a	614	6M12	Qt l
Thl t l. l dpe	1a6 2	2u0	70S	720	72u	12M02	Qt l
Glr dpe	164 1	1au	22a	110	160	72M0U	Qt l
Glr dpe	164 2	67	4S	60	a0	2aM04	Qt l
Hwn. 8qFdpe	16S 1	660	0SS	660	60u	2M14	Qt l
Hwn. 8qFdpe	16S 2	40S	4S7	4a0	447	0M06	Qt l
K. 8e dpe	16a 1	0U0U77S	US0S772	US6077S	u0Sa664	0M27	Qt l
K. 8e dpe	16a 2	7u06a67	7u0S70a	7U11600	7uu62Sa	SM40	Qt l
&Fndpe	11a 1	aa66001	61u4717	624u014	aUUUU77	6M2u	Qt l
&Fndpe	11a 2	u0uS1a	u6uaSU	u0aSaU	u07u61	SM46	Qt l
&. F	a4 2	u1u7SU4	u70u20a	u744uUU	u7S2SuU	1M26	Qt l
&. F	a6 2	1a1272071	1a1066SSU	1a1u4SUu0	1a1617242	SM22	Qt l
&. F	a0 2	70u4020	7U1077a	7u27u6U	7u41U00	1M00	Qt l
glht i. F	u7 1	2a6	2aU	261	2aU	SM0	Qt l
Lpwn	2S6 1	1217S7a6	1217a444	12Sa06u6	121S0u2U	SM76	Qt l

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LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	T 8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
Lpwn	2S0 1	1S66UuUU	1S640727	1S76u261	1Sa61u2u	1M4U	Ol l
Lpwn	2Su 1	4u4U2a70	4U1ua0S4	4u6uau10	4u0uuS1U	SM07	Ol l
LqiEdpe	6 1	2112USS	2227U12	222400u	21u01U6	2M04	Ol l
9 wkFpl dpe	24 2	2u2aSU60	20u71aa7	2u71a41U	2u172646	SM07	Ol l
9 wFkwFpl p	aa 2	7u26S77	7041a07	7uSSS44	70uU216	1M14	Ol l
9 . 8hr npFbe	U4 1	U64u26S	U611Uaa	UauaUSU	U61a70a	SM77	Ol l
9 . 8hr npFbe	Ua 1	170u126U	14116SUa	17Uu4S70	17U6S460	1M21	Ol l
9 . 8hr npFbe	U6 1	14U44422	1a76aS62	1aa6S6U6	1a2USS6S	2M36	Ol l
9 . 8hr npFbe	U0 1	u674SU1	u66aU20	uu12716	u0S4111	1M3U	Ol l
9 . 8hr npFbe	Uu 1	22S2S046	22a0u067	22076021	2244a41S	1M6u	Ol l
mp. nhe dpe	1aS 1	2a7	277	277	24S	4M1	Ol l
mp. nhe dpe	1aS 2	4S	aS	70	42	16M47	Ol l
mqOvp8	6S 2	746S6S	74a0uu	74212u	7446aU	SM04	Ol l
NE. l t E. Ibl	71 2	2S7a6	21S41	21S04	2Su24	1M1a	Ol l
N. iwl l dpe	7U 2	u0ua211	uUS2226	uU4Ua70	uu0uUU2	SM1a	Ol l
y E. ndpe	1S7 1	a47022a	6S622S0	6140a2U	auu272S	6M4U	Ol l
y E. ndpe	1S7 2	2006170	2001700	2001S20	2002u40	SM1S	Ol l
DOwFndpe	4a 1	7010uSU	42S774S	4SaU6Ua	7UU7614	6M2a	Ol l
DOwFndpe	4a 2	174722	176S01	176aSu	17a674	SM1a	Ol l
Dp8pFdpe	u2 1	4aUS1	40172	46uU2	46642	1M4S	Ol l
Dp8pFdpe	00 2	12uS	14aS	14SS	1700	6M7a	Ol l
Dp8pFdpe	0u 2	4u72	4664	4uu7	40U7	2M7U	Ol l
Dqq8Q F	2u 1	20a0uaSa	204uuS01	20a6UU46	20a4aaSu	SM1u	Ol l
Dq8pl	1S0 1	72u0407	77uUu20	77a06aU	7744Uu6	1M46	Ol l
Dq8pl	1SU 1	71a7u1U	7146SUS	71Uu114	7166SSu	SM1U	Ol l
D. ndpe	27 2	4U600406	4U264477	4U7a016u	4U477S26	SM44	Ol l
Dil. Fidpe	u6 1	1uu7200U	1u6u20Ua	1u6467u6	1u02S6a7	SM47	Ol l
Dil. Fidpe	uu 1	161S2aS66	161674124	1614u01UU	1617u217S	SM2S	Ol l
Db8Vbl	74 1	a416U4	a4U7aa	a4U242	a46064	SM1S	Ol l
cplr dpe	1aU 1	u774S62	U1S0u40	US72U24	uu24U4a	4M4	Ol l
cplr dpe	1aU 2	7u26U0U	76U7U2U	70u1721	706041S	1M7U	Ol l
cEw8Bpe	2S7 1	2uUU101	2U1U6U1	2uau742	2uU24S1	1M8u	Ol l
cEw8Bpe	2Sa 1	6u21664	6Ua441u	6UaS62a	6USuUS2	1M8U	Ol l
cqF	11u 1	2S0S4S1	211S164	211a07S	2SUu06a	1M1u	Ol l
cqwFdpe	40 1	76a6S46	70S7726	704aU61	70S1000	1M22	Ol l
5 lwFdpe	27u 1	1SS61007	1S4SU1u2	1S44u616	1S7S6a24	2M30	Ol l

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LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 3 - S27	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S27	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:17J26JSa	TwiwRq8p:mwe p:J	S1U3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	a1 2	aau667	aa77a4	aaU0u7	aa0266	SM62	Qt l
Yiiplr dpe	102 1	2SS	1U2	160	1u6	UM72	Qt l
Yiiplr dpe	102 2	0u	1S6	U4	U7	1aM1S	Qt l
Yiiplr dpe	106 1	176u7	14S41	14S2a	17U16	1M4a	Qt l
Yiiplr dpe	106 2	146u6	144U2	14u14	14664	1M11	Qt l
Yiildpe	uU 1	1S602u64	1174u211	110a6212	112aUSUa	4M16	Qt l
Yiildpe	uU 2	12112Sa	12SS27a	12S2ua1	12S4064	SM4u	Qt l
ZqFO	66 2	12067S0	120612a	12600S7	120770u	SM7U	Qt l
ZqlQ Fdpe	US 1	44624Uu	4402777	4407616	446U4u2	SM14	Qt l
ZqlQ Fdpe	U1 1	U06427	UU4SuU	1SS2u70	UU1116	1M76	Qt l

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LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlu

8 sps b r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
qPmb c omb	2072	4J1	2S2	1yJ	2N4	6- lyN	dDw
q. Tdb C. h	12171	J2y	11SS	1242	1SNJ	14lyl0	dDw
qpwr . cd	0y72	12	y	0	N	4ylS0	dDw
Bspomb	1- y71	2yS	2yN	- SS	26J	JlJ4	dDw
Bspomb	1- 071	- - -	- 0y	y2y	411	24ly-	dDw
Br phPmb	J71	1S6	12S	114	11-	6lSN	dDw
Bcwb mTE	2SJ71	yJ1NN12	6y46- 11	6Ny4JS1	644SSSN	0l41	dDw
Bcwb mTE	2SJ72	2JJN26S	- SN20N2	- S461- J	- S42- J-	1lJ J	dDw
BpCb c r	N171	- 610	4S- 4	- JyJ	- N0S	yl04	dDw
3 sob omb	1SN71	42	2y	2J	- 2	20l1y	dDw
3 sob omb	1S671	- S60	- 026	4S- 4	- 6SJ	1- l6J	dDw
3 sob omb	11171	41J	4- S	yyS	466	1ylyl2	dDw
3 sPdomb	4- 71	y44	y0y	yJ4	y01	4l42	dDw
3 sPdomb	4471	4y40y	44J42	4y2S0	4y2SN	SlyJ	dDw
3 speC.	1271	21- 0Jy0	21- J12N	21162Jy	21- 1120	Sl6S	dDw
3 speC.	1272	26104	26S1y	26SJJ	26SJ6	SlJ S	dDw
3 EPOpc r	- y71	1y06Sy1	1ySS- N0	14y0Jy4	1y11464	- lJ6	dDw
3 EPOpc r	- y72	JJ2J	Jy62	J1Jy	Jy62	- l0N4	dDw
3 EpCb omb	y272	111S	11SS	1S1-	1S04	4lJy	dDw
3 CesPT	yJ72	10S	yS	6-	J4	6Jl64	dDw
3 CDDr p	6- 72	244S	1y4S	1- 2-	106N	- - lyS	dDw
&hwDpOwomb	1y671	S	N	N	6	N6l6S	dDw
&hwDpOwomb	1y672	S	-	-	2	N6l6S	dDw
Fpeomb	16471	60	60	2y	y-	4ylyN	dDw
Fpeomb	16472	2-	4S	- S	- 1	26lJ0	dDw
GsoCPe omb	16S71	1SS	0y	N-	N6	14l0N	dDw
GsoCPe omb	16S72	1y-	14-	110	1- N	1- l06	dDw
HCPb omb	16y71	N- - N- y4	NJSSy0N	JN- N44J	JS2y0J4	Nl4S	dDw
HCPb omb	16y72	- J61S- -	4S06- 0S	4S46042	4S2NS4N	1l4J	dDw
t. oomb	11y71	6SN44SN	6616NyJ	01N4214	662N4J4	NlJ S	dDw
t. oomb	11y72	JyS- 0-	J0S- N1	J4N- 6y	Jy6- 0-	1l20	dDw
tpC.	y472	1211	6J4	0y6	NN0	- 1l0N-	dDw
tpC.	y672	1N- J0	660y	62JN	1S4y0	6yl0J	dDw
tpC.	y072	460	20N	- 11	- y2	2Nl6y	dDw
KphDTC.	N- 71	21J	24y	244	2- 6	6l2N	dDw
Lr so	2S671	20Jy	2460	21yS	2401	1- lSy	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdP u sb r :	S2S3 3 BFlu

8 sp sb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Lr so	2S071	1JS6	21- 4	2SSS	2S1-	yl6J	dDw
Lr so	2SN71	J- 6-	J1J6	J1y0	J2- J	1U1N	dDw
LdEomb	671	21JyNN0	2- 0- - 2J	2446NNy	2- - N0S1	ylyl2	dDw
5 sg. r womb	2472	- N1S	y0y	60y	16N0	1SJUS6	dDw
5 s. gs. r wr	yy72	- 1S	120	1y-	1J0	ySUJ6	dDw
5 OPheor . mb	J471	10SS	14SS	1- SN	140S	1- UJ4	dDw
5 OPheor . mb	Jy71	2- 10	21- 4	2106	22SJ	4UJy	dDw
5 OPheor . mb	J671	2060	2110	2- J2	242y	1- U46	dDw
5 OPheor . mb	J071	14N4	11- -	1- yS	1- 22	1- UJ6	dDw
5 OPheor . mb	JN71	- 460	- 1S1	416N	- y0J	1yU16	dDw
ur Cohb omb	1yS71	1-	0	1-	11	- 4U61	dDw
ur Cohb omb	1yS72	S	-	S	1	10- U21	dDw
ud kr P	6S72	0S	0-	0-	02	2U66	dDw
8 EOwDEOpmw	- 172	10y	22y	1J2	1J0	12UJ1	dDw
8 CTswwomb	- J72	144J1	1- - 0-	1- 4y0	1- 004	4lyl2	dDw
9 EOomb	1S- 71	612yN00	6yJS- 40	016- 142	66264yy	0UN4	dDw
9 EOomb	1S- 72	- 1S660N	- 2206y0	- 142- - 1	- 1yNNNJ	1UJ0	dDw
l ds. oomb	4y71	- N- J00S	4260yS0	4y2y422	421SJSS	NU22	dDw
l ds. oomb	4y72	1- JJ4N	14S0Sy	14S610	14S42-	SUJS	dDw
l r P. omb	N271	61	72S	yy	- 2	14SUJ-	dDw
l r P. omb	0072	S	S	S	S	SUSS	dDw
l r P. omb	0N72	11	J	1y	12	26U1J	dDw
l dC.	2N71	1NN62S	1N2140	1N21N1	1N4- 16	2USS2	dDw
l dPr p	1S071	210	2SS	2N-	2- -	1NUJ1	dDw
l dPr p	1SJ71	1N-	1J2	210	1J0	NU0J	dDw
l Oomb	2- 72	400- -	4SJ0y	4S- yS	4- S1J	Jlyl2	dDw
l TpC. Tomb	N671	2210	1yyJ	100y	1NyS	1NU14	dDw
l TpC. Tomb	NN71	11460	1S4N4	12460	1140-	NU64	dDw
l mPmp	- 471	- S24y2	- S1- S4	- S44- 0	- S20- 1	Slyl2	dDw
Ar peomb	1yJ71	N- yJ2Ny	J- 4S124	1SSy60J2	J2y2S60	JU21	dDw
Ar peomb	1yJ72	- N1J- y1	- N6N1- S	- N60- 6-	- Ny161y	SU0-	dDw
AEs Pomb	2S- 71	1y10	1- yN	1- N-	142S	6USS	dDw
AEs Pomb	2Sy71	- - y1	- 4y1	- - 60	- - JS	1UyN	dDw
Ac	11N71	12SN	11N-	14J2	12Jy	1- U2-	dDw
AdS. omb	4071	4yN	yyS	460	4J2	1SUJ1	dDw
Rps. omb	2- N71	0N-	0- -	00y	064	- lyl1	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	n Dr psTCp:	aswl sP
Lse l sb DPP t&:	3 3 BS2-	t. wTpmb . r Tu sb r :	8 N
3 Pr . Tl sb DPP t&:	3 3 BS2-	&dPmTC. MsdTCp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 1- :2J:26	&sTsMdPP u sb r :	S2S3 3 BFlw

8spsb r Tr p	5 sww	3 8 l 1	3 8 l 2	3 8 l -	3 8 l 5 r s.	3 8 l 9 l &	R. dTw
Vs. soomb	y172	yS	4-	1-	- 6	y4UJ4	dDw
YTTr peomb	10271	10	- -	42	- 1	41U66	dDw
YTTr peomb	10272	44	yS	2N	41	2NUJ N	dDw
YTTr peomb	10671	1- SS	11yS	1- 60	1202	NU02	dDw
YTTr peomb	10672	JJ1y	JN01	1S- y4	1SS40	2U66	dDw
YTTpomb	NJ71	1SJJ4N0J	11N26NNy	1- SS- 126	11J416- S	NU4y	dDw
YTTpomb	NJ72	12y1y20	12012Sy	12yy6N2	12yJ401	SUN2	dDw
Zc d	6672	260	10-	14-	1J4	- - USN	dDw
ZqpdC. omb	JS71	02y	60y	1S2y	NSN	2- U42	dDw
ZqpdC. omb	J171	142	1SN	2SN	1y-	- - UJ -	dDw

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Aluminium	2572	94-	991	264	913	14.25	cps
Antimony	12171	3- 2	623	43P	336	16.59	cps
Arsenic	5372	3	-	8	5	28.9-	cps
Barium	19371	2P8	215	223	215	9.83	cps
Barium	19571	415	489	999	411	18.28	cps
Beryllium	- 71	12-	- -	83	1P4	21.48	cps
Bismuth	2P- 71	6215331	69993P-	632358-	6938- 3P	2.43	cps
Bismuth	2P- 72	2- P396P	9P92593	9P38513	2- - 8- 95	2.54	cps
Bromine	8171	9526	9- 94	4PP-	98- P	9.58	cps
Cadmium	1P871	15	15	19	13	13.56	cps
Cadmium	1P671	94- 2	9626	9456	9391	2.99	cps
Cadmium	11171	4P8	456	414	499	8.65	cps
Calcium	4971	66-	69P	316	6P3	19.1P	cps
Calcium	4471	44668	449P4	4254P	49- P4	2.99	cps
Carbon	1271	2144- 32	2P- 6535	2P84388	21P8566	1.31	cps
Carbon	1272	26641	23548	2614-	2615-	1.51	cps
Chlorine	9371	- 5P526	- 45328	- 13P89	- 44446	2.- 6	cps
Chlorine	9372	6325	636P	6255	6434	2.4P	cps
Chromium	3272	1195	119P	1149	1195	P.3-	cps
Cobalt	3- 72	- 9	- P	- 5	- 9	9.35	cps
Copper	6972	1435	1945	141P	14P3	9.- 9	cps
Dysprosium	13671	P	8	8	6	86.6P	cps
Dysprosium	13672	9	5	9	4	49.4P	cps
Erbium	16471	38	42	23	42	4P.PP	cps
Erbium	16472	29	1P	29	1-	4P.53	cps
Gadolinium	16P71	38	38	42	39	18.29	cps
Gadolinium	16P72	115	115	1PP	111	8.66	cps
Holmium	16371	- P3961-	88P9936	- 1- 9- 8P	- P16- 83	2.1-	cps
Holmium	16372	96565PP	9- 5829P	9- 86- 9P	988P62P	4.33	cps
Indium	11371	648338-	6448PP3	6596495	6336655	2.9-	cps
Indium	11372	888835	- 99954	- 31231	- 244- 4	9.48	cps
Iron	3472	- 61	1P89	658	- P5	22.- 9	cps
Iron	3672	19114	143P3	19634	19538	3.1P	cps
Iron	3572	944	4PP	9P6	93P	19.36	cps
Krypton	8971	224	225	236	296	5.34	cps
Lead	2P671	213P	2PP6	153P	1- 6-	1P.2-	cps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9-BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Lead	2P571	2P36	15-3	1352	18P8	19.9-	cps
Lead	2P871	86P1	5-62	6-35	584P	1P.38	cps
Lithium	671	2912511	299285-	29-4614	2946594	1.82	cps
Magnesium	2472	1394	1489	- - 2	1996	22.4P	cps
Manganese	3372	1-P	18P	14P	15P	13.36	cps
Molybdenum	-471	1942	1P38	838	1P86	22.96	cps
Molybdenum	-371	183-	1323	1P-2	14-2	23.55	cps
Molybdenum	-671	1515	1653	11-2	1328	1-.1P	cps
Molybdenum	-571	1115	8-2	853	-61	14.P4	cps
Molybdenum	-871	293-	2P65	2P23	213P	8.43	cps
Neodymium	13P71	P	5	5	4	86.6P	cps
Neodymium	13P72	P	P	P	P	P.PP	cps
Nickel	6P72	8P	65	8P	56	1P.1-	cps
0hosphorus	9172	189	9P8	915	26-	25.52	cps
0otassium	9-72	199-8	19PP6	12364	12- - P	9.21	cps
Rhodium	1P971	6483134	6429161	6544643	633P-86	2.6P	cps
Rhodium	1P972	2854151	9P55949	9P85265	9P12-25	9.- -	cps
Scandium	4371	4911646	42P41-6	494P248	4283969	1.65	cps
Scandium	4372	19411P	14141-	149P38	19-32-	9.41	cps
Selenium	8271	21	1P	799	P	768P9.68	cps
Selenium	5572	5	P	9	9	1PP.P3	cps
Selenium	5872	18	-	13	14	92.59	cps
Silicon	2871	1813-P	158P69	15695P	158654	1.4-	cps
Silver	1P571	142	215	142	165	23.-8	cps
Silver	1P-71	65	1PP	3P	52	93.23	cps
Sodium	2972	96- - 8	95992	96433	96-28	1.2P	cps
Strontium	8671	18PP	2P3P	1289	1511	22.83	cps
Strontium	8871	19PP9	11P53	-431	11156	13.-1	cps
Sulfur	9471	9P3289	9P3895	9P644-	9P3835	P.1-	cps
Terbium	13-71	-1399-6	-194138	-293396	-154969	P.3-	cps
Terbium	13-72	95P513-	9-4386-	9-23555	983-6P2	9.49	cps
Thallium	2P971	1P3P	113P	1P65	1P8-	4.-2	cps
Thallium	2P371	2823	2442	21-2	2486	12.89	cps
Tin	11871	1153	1189	1142	1165	1.8-	cps
Titanium	4571	689	3PP	3P8	364	18.96	cps
Uranium	29871	11PP	599	3PP	558	98.8-	cps

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Inst Id :P8

LB Number :	LB1264P5	Operator :	Jaswal
Lab Sample ID :	0B134P9- BL	Instrumnet Name :	08
Client Sample ID :	0BWP9-	Dilution Factor :	1
Date & Time Acquired :	2P297P5712 19:92:43	DataFile Name :	P21CCBE.d

0arameter	Mass	C0S1	C0S2	C0S9	C0SMean	C0SRSD	Units
Vanadium	3172	49	4P	69	4-	23.81	cps
Ytterbium	15271	99	53	99	45	3P.- 3	cps
Ytterbium	15272	6	28	22	1-	62.49	cps
Ytterbium	15671	11P8	1123	1399	1236	1- .15	cps
Ytterbium	15672	- P85	- 556	- 6P4	- 48-	9.58	cps
Yttrium	8- 71	12114356	11- 16P44	12285P9-	121P3886	1.39	cps
Yttrium	8- 72	11552P4	12944- -	1261943	122493P	9.31	cps
Zinc	6672	219	165	15P	189	14.2P	cps
Zirconium	- P71	899	53P	323	5P9	22.5P	cps
Zirconium	- 171	89	38	138	1PP	32.P4	cps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-4S7 B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-2	1-21	14-6	1-S2	2M4-	dDP
q. Tde C. h	121J1	16 S7	10SS7	1000	1022u	2M0u	dDP
qlPp. cd	0-J2	242	2-7	27S	242	4M06	dDP
Bl ldbe	17-J1	1uuuS	10 0	1u 22	1u- 4	2M10	dDP
Bl ldbe	170J1	7172S	77S4	77141	72-S4	7M16	dDP
BplhNbe	J1	22u1	22S1	22S1	222u	2M30	dDP
BdPe bTE	2S J1	614 S60	641u 7	6702-S1	6717-S2	2M2	dDP
BdPe bTE	2S J2	722u46	7SS16 S	712u10u	711 44-	7M04	dDP
BlCe c p	u1J1	7uu4	76S	4S06	7u-6	6M3	dDP
Fl oe dbe	1SuJ1	10	1-u	1u7	104	0M01	dDP
Fl oe dbe	1S6J1	7010	4160	476u	4Su4	uM1-	dDP
Fl oe dbe	111J1	2--	2-44	27S	240S	-M0u	dDP
Fl Ndbe	47J1	11u71	11u6u	127S4	12SS1	2M1	dDP
Fl Ndbe	44J1	22u271	22u6u0	271666	22 -2u	SM11	dDP
Fl lr C.	12J1	22S- u4	21-2S 4	210u 17	210u 0	1M24	dDP
Fl lr C.	12J2	207-	20206	26u42	201-	1M32	dDP
FENCl c p	7-J1	02S01-	0S06 6	6u11S2	0S7101	2M10	dDP
FENCl c p	7-J2	4 -1	46u4	4 S	4u4u	2M6	dDP
FElCe dbe	-2J2	- u1	6S6-	61S-	6S-S	1M34	dDP
FCr l NT	- J2	4- 1	4u01	46u1	4014	7M37	dDP
FCDDpl	67J2	u606	u406	u0-7	u67-	1M06	dDP
&hPDlCPbbe	1-6J1	u	u	u	u	SM3S	dDP
&hPDlCPbbe	1-6J2	0	0	7	6	74M0S	dDP
Ulr dbe	164J1	0-	-u	2-	-7	4uM24	dDP
Ulr dbe	164J2	27	27	20	24	0M1	dDP
Gl oCNl dbe	16SJ1	110	60	0-	u6	71M11	dDP
Gl oCNl dbe	16SJ2	12S	177	170	17S	6M0	dDP
HCNe dbe	16-J1	u07Su0u	14-66u	262 4	S464	7M3	dDP
HCNe dbe	16-J2	416266	7 11 -4	7 6 077	4S140u6	7M20	dDP
t. odbe	11-J1	6-1107S	660-727	60Su-Su	6671u-4	1M1	dDP
t. odbe	11-J2	1SSS4-0	20 S7	0762	6077S	7M0	dDP
tlC.	-4J2	27714	244S4	2760S	270 6	2M74	dDP
tlC.	-6J2	4260	421 42	42u6--	42-0	SM11	dDP
tlC.	-0J2	1Su26	11S1S	111uu	11SSu	1M64	dDP
KlhDTC.	u7J1	202	20S	261	26u	2M21	dDP
Lpl o	2S6J1	u4u6	26-	SS7	u 1u	4M44	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-4S7 B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: S7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&l Tl Rdpamle pas	S22LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	0-0-	00uS	06-2	066	1M7-	dDP
Lpl o	2SuJ1	7-714	7-u4u	7-77S	7-4 0	SM-	dDP
LdEdbe	6J1	22uS776	2766-u	2442 71	27672u-	7M4	dDP
9 l g. pPdbe	24J2	20S	1S1--7	6uS-	2S	2M7	dDP
9 l . gl . pPp	--J2	1707	12 0	1767	174-	7M1S	dDP
9 CNr op. be	4J1	10S0u	10-4-	1u1S4	10-06	2M2	dDP
9 CNr op. be	-J1	22-76	216-	2201	227S-	2M4	dDP
9 CNr op. be	6J1	24-40	24464	24622	24-44	SM2	dDP
9 CNr op. be	0J1	12 u	17	17024	17-04	7M1	dDP
9 CNr op. be	uJ1	74SS	7-2-4	7-01-	74 7	2M2	dDP
mpCohe dbe	1-SJ1	2S	S	0		114M-	dDP
mpCohe dbe	1-SJ2	7	S	S	1	107M1	dDP
mdkpN	6SJ2	17-0	1-17	17u0	141	-M6	dDP
3ECPDECIbP	71J2	1-S	2u7	2-S	22u	7SM6	dDP
3CTPPdbe	7 J2	01070	07S00	07144	026-7	1M	dDP
y ECodbe	1S7J1	62 2762	60 46-0	66u 6S	6- 2720	4M2	dDP
y ECodbe	1S7J2	72S-6-6	7S27u2S	7S61-07	7S 0S16	7M1S	dDP
: dl . odbe	4-J1	4S46u-7	424-S 7	474S-	421Su4u	7M6	dDP
: dl . odbe	4-J2	1-1042	17u4	1471--	144466	4M-	dDP
: pNp. dbe	u2J1	001	061	0-2	062	1M7	dDP
: pNp. dbe	00J2	70	7S	2S	2	2 M4	dDP
: pNp. dbe	0uJ2	11	114	1S	114	4M	dDP
: dNdC.	2uJ1	27-44u	272Su	27774	27762	SM7	dDP
: dNpl	1S0J1	1Su7S	1177S	1147S	111 6	2M0	dDP
: dNpl	1S J1	11S7u	1117u	1Su--	11S1S	1M1	dDP
: Codbe	27J2	2S6604	2S677	2S24u4	2S-166	1M7	dDP
: TC. Tdbe	u6J1	72SS	7260	772-	7264	1M2	dDP
: TC. Tdbe	uuJ1	27062	22-6	276 6	27742	2M0	dDP
: bNbl	74J1	71Su21	7124 -	711uS7	7110S0	SM0	dDP
Apl r dbe	1- J1	uuu1 u	246747	46 07-	1 7-6	7M2	dDP
Apl r dbe	1- J2	4S-4021	70-741	7uu7600	7u 0207	7Mu	dDP
AEl NNbe	2S7J1	1S117	1S767	u46	1S1S0	2M6	dDP
AEl NNbe	2S-J1	2-S66	276--	220S4	27uS	4M	dDP
Ac	11uJ1	11 2	11 2	1277	12S6	2M3S	dDP
AdT. dbe	40J1	646u	6047	607-	664	2M7-	dDP
5 ll . dbe	27uJ1	722-S	72 6S	7210-	72462	1M7	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpII TClas	wI P8I N
LI r a l e DNpla&aaa	3B1-4S7 B:	t. PTIbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: S7	&dNTC. aRI dTClas	1
&I Tpai aAce paqdCbdpoas	2S27JS0J12a17s7-s46	&I TI RdpNamI e pas	S22LF: UMd

3I II e pTpI	9I PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
VI . I odbe	-1J2	407	4u7	-07	-1S	SMu	dDP
YTpIr dbe	102J1	2-	-S	60	40	44M1	dDP
YTpIr dbe	102J2	77	11	11	1	6 M2u	dDP
YTpIr dbe	106J1	1410	1460	12SS	1761	1SM1	dDP
YTpIr dbe	106J2	1S2 7	1S16-	1S-01	1S747	2M31	dDP
YTTdbe	u J1	11- 4147	121u --u	12S- 6-	11 400u0	2M62	dDP
YTTdbe	u J2	17u16Su	1227u0	126u 02	12 14u6	6M2	dDP
Zc d	66J2	22 4	2744	2-u4	24S0	6M4	dDP
ZddC. dbe	SJ1	144-u	140-S	1-2-S	14u1	2M3S	dDP
ZddC. dbe	1J1	7460	7442	7-S1	740S	SM4	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SMs6	T dbiqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- S0 12:1- J- aJ7s	TI il Mdbd:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	17s1	1722	1726	1740	2R7S	Q P
d. iqe C. E	121 1	s- -	a- -	s60	s11	0R62	Q P
dIPp. qO	07 2	21	- 1	2a	20	1sR24	Q P
BI dpe	1- 7 1	207s6	2a- - S	2a4as	2a1- a	1R6s	Q P
BI dpe	1- 0 1	71S- s	4s- a-	7S40S	7S2s0	1R60	Q P
BpIENdpe	s 1	162	16S	177	17s	2R4S	Q P
BqPe biG	2Ss 1	7a00s44	6S- 12- 2	6176S64	6S21040	2R 1	Q P
BqPe biG	2Ss 2	- S200a0	2aa2- 70	2ss666-	2s6as- 6	2R7a	Q P
BICe q p	a1 1	1766a	1a446	21460	1a720	17R66	Q P
9 I ne dpe	1Sa 1	10	- -	10	22	4- R2a	Q P
9 I ne dpe	1S6 1	- - - 4	- 742	- 4Ss	- 42a	- RSa	Q P
9 I ne dpe	111 1	- 6-	- 0-	- 01	- 6s	1R 2	Q P
9 I NDdpe	4- 1	2S0asa	212sS4	21211s	21Ss04	1R2a	Q P
9 I NDdpe	44 1	- 7SS0s6	- 7s- 746	- 7- Sa1s	- 74102S	1R 4	Q P
9 I Ir C.	12 1	2a710aS	- 1s6s7S	- 4724- 2	- 160S74	sR72	Q P
9 I Ir C.	12 2	4011a	4s66S	711S6	4s2s4	4R1S	Q P
9 GNDIq p	- 7 1	0S6- a1	0Ss4S6	02- a44	01- 21S	1R 1	Q P
9 GNDIq p	- 7 2	7771	7Sa4	7S71	722s	7R 7	Q P
9 GICe dpe	72 2	0272	01- 7	0S72	0146	1R41	Q P
9 Cr I Nd	7s 2	06S	040	670	021	0R0s	Q P
9 Ct pI	6- 2	22- S	24a4	220S	2- 2a	7Ra7	Q P
TEPt ICPdpe	176 1	260	- SS	207	2a1	6R1a	Q P
TEPt ICPdpe	176 2	11-	12-	1S0	114	0R -	Q P
UIr dpe	164 1	27S	- 10	27S	202	14R14	Q P
UIr dpe	164 2	12S	110	11S	116	4R41	Q P
HI nCNq dpe	16S 1	- SS	- Sa	- 7S	- 1s	aR s	Q P
HI nCNq dpe	16S 2	210	27S	20S	246	1SR30	Q P
h CNe dpe	167 1	a- ass00	a7asss2	aa7S740	a61S102	2R6a	Q P
h CNe dpe	167 2	- a6- 74S	- 0- 4076	- a- 20- S	- a1S- 42	1R06	Q P
& ndpe	117 1	6- 46461	641s106	647s1a7	64Sa204	SRas	Q P
& ndpe	117 2	s- s7S0	aa026-	s11S26	s127ss	2Ra0	Q P
&C.	74 2	226S2	226sS	22- S0	227- -	SRas	Q P
&C.	76 2	4S7- 46	41- 604	4S4Ssa	4S00S6	1R2a	Q P
&C.	70 2	1Ss21	1Sa6S	1S0a2	1Sa74	SR64	Q P
KIEt iC.	a- 1	24S	227	261	242	0R7-	Q P
Lpl n	2S6 1	24- 4	242a	2610	24s-	4R 1	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pl:J	LB1264S0	3 t pll iCl:J	wl P8 l N
Ll r :Dl e t Nd:&T:J	3 - 724 S1	& Fll be . pi:ml e p:J	ua
9 Nd. i:Dl e t Nd:&T:J	y h SMs6	Tdl iqC. :M ClCl:J	1
Tl ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:1- J- aJ7s	Tl il Mdl d:ml e p:J	S2- d F UMRn

ul ll e pipl	y l PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
Lpl n	2S0 1	21S6	222a	2Ss7	214-	- R47	Cl P
Lpl n	2Sa 1	s0S2	1S2- 7	sa6a	ss- 7	2R07	Cl P
LqiGdpe	6 1	224SS11	24S6- Ss	2206s77	2- S007a	- R0a	Cl P
y l g. pPdpe	24 2	- 240- 4	- - S011	- 22s74	- 261- -	1R27	Cl P
y l . gl . pPp	77 2	sS16	ass-	aaS-	as- 0	1R 1	Cl P
y ClNEr np. be	s4 1	277S	2- 07	27a4	27S-	4R40	Cl P
y ClNEr np. be	s7 1	- 4s2	- 67s	- - 42	- 4sa	4R7-	Cl P
y ClNEr np. be	s6 1	4S42	- s42	- 060	- s10	- R77	Cl P
y ClNEr np. be	s0 1	27SS	2227	24Ss	2- 0a	7Ras	Cl P
y ClNEr np. be	sa 1	771S	7- s-	7706	74s-	1R6s	Cl P
mpOnEe dpe	17S 1	720	740	4s-	722	7R16	Cl P
mpOnEe dpe	17S 2	10S	10S	170	166	4R67	Cl P
mqOkpN	6S 2	1160	1- - -	12- 0	1246	6R02	Cl P
uGCPt GClbP	- 1 2	- SS	27S	2a-	20a	sR16	Cl P
uCl PPdpe	- s 2	1- S1S1	1- 140a	120a46	12saSa	1R41	Cl P
FGCndpe	1S- 1	6117062	62aasS7	6- 02766	627sS00	2RSs	Cl P
FGCndpe	1S- 2	- S20007	2s41- ss	- S4212a	- SS- 060	1Ra1	Cl P
DCl . ndpe	47 1	4S222Sa	4S04s0a	4S042- 7	4S7014S	SR07	Cl P
DCl . ndpe	47 2	14S07-	1- 4- 02	1- 6S4S	1- 0S77	2R41	Cl P
DpNd. dpe	a2 1	a	0a	6	- S	1- 4RS0	Cl P
DpNd. dpe	00 2	S	0	S	2	10- R21	Cl P
DpNd. dpe	0a 2	1s	2a	21	2-	2SRa7	Cl P
DqNDC.	2a 1	1SaS4SS1	11477Ssa	111a72- 6	1114a112	2R3-	Cl P
DqNpl	1S0 1	1Sa	a-	127	1S6	1sRa6	Cl P
DqNpl	1Ss 1	110	110	60	1SS	2aRa0	Cl P
DCndpe	2- 2	217s642	2166a6s	21Sssaa	21477SS	1R44	Cl P
DilC. idpe	a6 1	sa0S0	1S7714	ss7a0	1S126s	- R36	Cl P
DilC. idpe	aa 1	a61a76	aaaS6-	aa421s	a0aS46	1R31	Cl P
DbNbl	- 4 1	4S266-	4S2761	4S6141	4S- 0aa	SR7S	Cl P
cplr dpe	17s 1	a71S1a-	aa- s72-	sSas64-	aa1- 116	- R S	Cl P
cplr dpe	17s 2	- a72474	- 046- s-	- aS4asa	- aS124s	1R4S	Cl P
cGl Ndpe	2S- 1	6s2	77S	6s2	644	12R3s	Cl P
cGl Ndpe	2S7 1	12s2	1160	1S07	110a	sR2-	Cl P
cq	11a 1	22s2	2- Ss	1s7s	21a6	sRS-	Cl P
cqil . dpe	40 1	060	s42	aSS	a- 6	11R11	Cl P
5 ll . dpe	2- a 1	1s- 2-	2S0S1	1sa- -	1ss72	- R4s	Cl P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 724 S1	& FIIbe . pi:mI e p:J	u a
9 Nb. i:DI e t Nb:&T :J	y h SMs6	Tdbiq C. :M OCI:J	1
TI ip:A:cqe p:dQobdpn:J	2S2- S0 12:1- J- aJ7s	TI il MdbI:mI e p:J	S2- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	47-	770	4sS	7SS	1SR4a	Q P
YiipIr dpe	102 1	17a	110	1- -	1- 6	17R41	Q P
YiipIr dpe	102 2	1S6	61	as	a7	26R 6	Q P
YiipIr dpe	106 1	147S	127S	1210	1- S6	sR30	Q P
YiipIr dpe	106 2	sa- 2	s7sa	s6s-	s0S0	1R21	Q P
YiiIdpe	as 1	112sa676	1147S110	11761414	114- 602s	1R17	Q P
YiiIdpe	as 2	1241as2	1166a47	12Ss707	12S61S4	- R12	Q P
ZqO	66 2	4414	4- s0	4S- 0	42a-	4R30	Q P
ZdQC. dpe	sS 1	12Sa	1427	107s	1464	1aR-	Q P
ZdQC. dpe	s1 1	1a-	260	- s2	2a1	- 0R a	Q P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	21Sh	2Sa1	2S24	2S01	2M8h	dDl
qCTb nCE	121 1	610	6h2	67S	67-	7M06	dDl
qpl r Ccl	07 2	60	74	7a	6S	11M16	dDl
Bwpcmb	1- 7 1	4h710	714S0	7221S	71S47	2M01	dDl
Bwpcmb	1- 0 1	a660a	ah71-	hS26a	aaa1h	2M1-	dDl
Br pE8mb	h 1	212	2- 1	21h	221	4M2	dDl
Bdl b mTG	2Sh 1	6- h- haS	620a- 74	644h6S4	6- 0- h0h	1M0	dDl
Bdl b mTG	2Sh 2	- SS147-	- - - h12h	- Sa14a1	- 14S6aa	7M02	dDl
Bpmb cCr	a1 1	2707a	- 1- 61	- 0h44	- 16aa	1hM27	dDl
5 wob cmb	1Sa 1	h2	- -	a-	6h	47M44	dDl
5 wob cmb	1S6 1	- 7a4	- 710	- 7S1	- 7- 4	1M27	dDl
5 wob cmb	111 1	- a6	- h1	- 0h	- a7	1M72	dDl
5 w8lcmb	4- 1	4211h0	4- 6h02	44661S	4- 4h26	2M17	dDl
5 w8lcmb	44 1	0- 1660h	026SS7a	0717a10	0- 641a7	1M42	dDl
5 wpenC	12 1	4Sa2762	477ah74	407721a	446770a	0M07	dDl
5 wpenC	12 2	67S20	60067	67h4a	66240	2M1S	dDl
5 G8mpCr	- 7 1	6a27h4	0SS207	0211- S	0S1- - -	2M07	dDl
5 G8mpCr	- 7 2	7- 6S	7006	7- 7h	74ha	4Ma	dDl
5 Gpmb cmb	72 2	4S- 0	4SS0	- 0h4	- h46	- M6	dDl
5 new8T	7h 2	17S-	1700	164S	170-	4M7	dDl
5 nDDr p	6- 2	264S	27S0	20a4	2644	7M4-	dDl
&El Dpnl cmb	176 1	- 07	207	- 42	- - 1	17M4S	dDl
&El Dpnl cmb	176 2	100	14S	14-	17-	1- M42	dDl
Fpecmb	164 1	- a-	442	4a-	4- 6	11M72	dDl
Fpecmb	164 2	16S	120	220	101	2hM06	dDl
Hwon8Cmb	16S 1	- h2	- 60	47S	4S-	1SM02	dDl
Hwon8Cmb	16S 2	2hS	260	200	20a	4M42	dDl
y n8b cmb	167 1	hS7741S	ahh4- a1	hS22SS2	hS2- h- 1	SM4	dDl
y n8b cmb	167 2	- h- a- 6h	4- 0a- S0	4S6- S01	41267a2	7M4h	dDl
tCocmb	117 1	6711014	6740a- 1	64- 16- h	64h0S61	SM42	dDl
tCocmb	117 2	h1- a1-	1S- - - 22	h64044	h0S626	6M1a	dDl
tpnC	74 2	6Sa- 7	7hS11	700- h	7h1h7	2M0-	dDl
tpnC	76 2	1Sa- 2ha	1S014S2	1S004- a	1S00- aS	SM77	dDl
tpnC	70 2	20a20	2aa1a	2ah04	2a74S	2M1a	dDl
KpEDTnC	a- 1	242	214	24S	2- 2	6M46	dDl
Lr wo	2S6 1	2- 76	2711	2476	2441	- M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	2S76	1hah	1aah	1h0a	4M24	dDl
Lr wo	2Sa 1	h7- 7	h61-	h1h6	h44a	2M7	dDl
LdTGmb	6 1	2- SS- 40	2- Sh- a-	22hh6hS	2- S- 14S	SM24	dDl
9 wgCr l mb	24 2	a- h7- a	a44441	a- 6020	a4S2- 7	SM46	dDl
9 wCgwCr l r	77 2	40- 0a	407S2	40066	4074h	SM42	dDl
9 n8Eeor Cmb	h4 1	1S- 21	1S674	1S20h	1S41a	1M10	dDl
9 n8Eeor Cmb	h7 1	104- 6	1aS74	10a2S	1000S	1M07	dDl
9 n8Eeor Cmb	h6 1	1ah40	1hS- h	1h7a1	1h1ah	1M0h	dDl
9 n8Eeor Cmb	h0 1	1S0- a	1S646	117aa	1Shh1	4M0-	dDl
9 n8Eeor Cmb	ha 1	20- 1h	2a246	2a2aa	20h71	1M16	dDl
u r noEb cmb	17S 1	62S	62S	7a0	6Sh	- M16	dDl
u r noEb cmb	17S 2	160	160	1hS	104	0M02	dDl
u cdkr 8	6S 2	67S	0- 0	64-	600	0M0S	dDl
NGhl DGhpml	- 1 2	1h2	- SS	47a	- 10	42M7	dDl
NnTwl l cmb	- h 2	21a4aS	2107hh	21aa16	21a2hh	SM2h	dDl
. Ghocmb	1S- 1	6446ha7	64S2- 14	6- h66- 1	6417- 1S	SM4-	dDl
. Ghocmb	1S- 2	2ha- 7a1	- - 0hS70	- S00- 61	- 146666	6M10	dDl
l dwCocmb	47 1	412S40h	4217a- 1	41742S4	416- 7S7	1M16	dDl
l dwCocmb	47 2	14SS16	174S1h	146S4a	1466h4	4M0h	dDl
l r 8 Ccmb	a2 1	41	76	0-	70	20M7a	dDl
l r 8 Ccmb	00 2	-	S	0	-	1SSM37	dDl
l r 8 Ccmb	0a 2	2-	17	20	22	2aM2S	dDl
l 8dnC	2a 1	107- a60-	1a- - a20-	10074411	10a0011h	2M1	dDl
l 8vr p	1S0 1	1Sa	7S	127	h4	41M0S	dDl
l 8vr p	1Sh 1	110	- -	h2	a1	7- M3h	dDl
l nocmb	2- 2	4- - 4a2S	420044S	4Sh1040	42- 466h	- M3S	dDl
l TpmCTcmb	a6 1	2711h2	2611- 4	261744	270h70	2M20	dDl
l TpmCTcmb	aa 1	226S204	2- 74- 7S	2- aa46h	2- - 4- 64	2M44	dDl
l m8mp	- 4 1	671471	6644S-	661Sa6	67ahaS	1M32	dDl
Ar pecmb	17h 1	h1h61- 4	ahaah16	h2- 40h-	h1- hh4a	1M47	dDl
Ar pecmb	17h 2	- a441- -	421244-	- ah44Sa	- ha- 661	7M31	dDl
AGw8mb	2S- 1	7- -	47a	77a	710	1SM30	dDl
AGw8mb	2S7 1	1442	1210	1- - -	1- - 1	aM46	dDl
AdC	11a 1	22SS	24SS	2442	2- 4a	7M7S	dDl
AdTwCcmb	40 1	1S07	a42	a7S	h22	14M7	dDl
RpwCcmb	2- a 1	424S7	4- 1S0	4- 216	42hSh	1M3-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:I wb D8 :t&:J	3 - 724 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J41J7a	&wTwUd8 :u wb r :J	S24q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	71 2	47-	44-	40-	470	- M7	dDl
YTTr peomb	102 1	127	17a	227	16h	- SN87	dDl
YTTr peomb	102 2	110	a-	122	1S0	1hM7a	dDl
YTTr peomb	106 1	147a	1410	1- 7S	14Sa	- Na	dDl
YTTr peomb	106 2	1SS17	11177	1SS4h	1S4S6	6M2-	dDl
YTTpomb	ah 1	117h6217	11- a2Sh2	11ha0100	11677161	2M4-	dDl
YTTpomb	ah 2	12- S777	141a4a7	1- - - S1-	1- 20- 71	0N8h	dDl
ZdCd	66 2	11607	116S7	12117	110ha	2M7	dDl
ZqpdnComb	hS 1	17Sh	1710	1- 7S	147a	6M44	dDl
ZqpdnComb	h1 1	2h2	1a-	242	2- h	22N0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1h22	1h- S	1hS7	1h1h	SM60	dDl
qCTb nCE	121 1	0- -	a42	77S	0Sa	2SM41	dDl
qpl r Ccl	07 2	01	76	61	6-	12M1h	dDl
Bwpcmb	1- 7 1	72171	72h62	71122	72S0h	1M00	dDl
Bwpcmb	1- 0 1	ahSa7	h20- 4	h2S02	h12h0	2M1-	dDl
Br pE8mb	h 1	1a0	1h6	1a1	1aa	4M8S	dDl
Bdl b mTG	2Sh 1	610424S	7a617S0	62a702-	61S0170	- M0S	dDl
Bdl b mTG	2Sh 2	2hh7461	- S46SaS	- SS16- S	- S14- hS	SM12	dDl
Bpmb cCr	a1 1	2a0- a	- 644S	- h617	- 4h- 1	16M81	dDl
5 wob cmb	1Sa 1	07	7S	60	64	1hM12	dDl
5 wob cmb	1S6 1	- 7S1	- 206	- 706	- 471	4M7-	dDl
5 wob cmb	111 1	- 6S	- a4	- a6	- 00	- M44	dDl
5 w8lcmb	4- 1	4- ShS1	4- h700	44612-	4- aa60	1M04	dDl
5 w8lcmb	44 1	0166h12	04a4h61	07S1- S6	0- a4- h-	2M77	dDl
5 wpenC	12 1	416S417	474h7h2	4a6a002	472626S	0M44	dDl
5 wpenC	12 2	64410	6a74-	6h724	604h4	4M82	dDl
5 G8hpcCr	- 7 1	6744hh	602S02	6h447a	60- 606	2M10	dDl
5 G8hpcCr	- 7 2	4ah-	4h26	7471	7ShS	6M16	dDl
5 Gpmb cmb	72 2	- a24	4S40	- a71	- hS0	- M12	dDl
5 new8T	7h 2	16- S	1010	144-	17h0	aM07	dDl
5 nDDr p	6- 2	2- 44	2- 0S	24- S	2- a1	1M46	dDl
&El Dpnl cmb	176 1	2a-	207	227	261	12M8a	dDl
&El Dpnl cmb	176 2	100	16-	14-	161	1SM41	dDl
Fpecmb	164 1	- 7S	260	- 27	- 14	1- M02	dDl
Fpecmb	164 2	14-	1aS	14S	174	14M0	dDl
Hwon8Ccmb	16S 1	- - -	- h2	460	- h0	16M4-	dDl
Hwon8Ccmb	16S 2	2hS	2- -	2- 0	27-	12M77	dDl
y n8b cmb	167 1	aa- 4070	a- 47710	h2- - - 7a	aaS4744	7M87	dDl
y n8b cmb	167 2	- ha721-	4S40166	- h6- 04h	- hha0Sh	1M8a	dDl
tCocmb	117 1	671aSh0	61aS7S7	6710417	64S7- - h	- M84	dDl
tCocmb	117 2	h- h7h1	h27- 01	h26S- -	h- S- - 2	SM46	dDl
tpnC	74 2	7- 7a4	77h- 2	7720h	74h- 1	2M21	dDl
tpnC	76 2	1SSa7- 6	1S224S0	1SS2h16	1S112a0	SM1h	dDl
tpnC	70 2	26- 7a	26- 72	26- 6-	26- 7a	SM82	dDl
KpEDTnC	a- 1	241	220	2- h	2- 6	- M11	dDl
Lr wo	2S6 1	2Sah	2210	2S60	2124	- M41	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :uwb r :J	S27q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1047	1676	10SS	10SS	2M61	dDl
Lr wo	2Sa 1	0h0h	a271	0a2h	aS2S	2M60	dDl
LdTGmb	6 1	2- - 077-	210hh06	2- 0041h	22ha- 16	4M74	dDl
9 wgCr l mb	24 2	a476S1	a460a-	a72h04	a4a47-	SM40	dDl
9 wCgwCr l r	77 2	40Sa0	4a4- h	4014a	4077a	1M61	dDl
9 n8Eeor Cmb	h4 1	1SS- 0	haa0	1S7h6	1S10-	- M60	dDl
9 n8Eeor Cmb	h7 1	101- 6	10S61	1a162	1047-	- M7-	dDl
9 n8Eeor Cmb	h6 1	1a66-	1h1ah	1a0aa	1aaaS	1M47	dDl
9 n8Eeor Cmb	h0 1	1S6- a	1Sa01	1S- - 0	1S617	2M72	dDl
9 n8Eeor Cmb	ha 1	2a- 6-	2a6- h	20261	2aSaa	2M6S	dDl
u r noEb cmb	17S 1	61-	760	6aS	62S	hM1h	dDl
u r noEb cmb	17S 2	100	100	1hS	1a1	4M27	dDl
u cdkr 8	6S 2	67-	0- 0	7hS	66S	11M17	dDl
NGhl DGhpml	- 1 2	2- -	210	2a-	244	14M1h	dDl
NnTwl cmb	- h 2	2164h4	210aa1	214a04	216416	SM0S	dDl
. Ghocmb	1S- 1	64SS00-	6S160ha	640a461	62ha60a	- M12	dDl
. Ghocmb	1S- 2	- S- 7004	2h02- 44	- S24S- S	- S1S016	1M12	dDl
l dwCocmb	47 1	41S4- 11	- ah- S6S	42- - 641	4S00SS4	4M22	dDl
l dwCocmb	47 2	1- h1- S	14S0h6	1- h- 0a	1- h06a	SM04	dDl
l r 8 Ccmb	a2 1	7a	ah	110	aa	- 4M1-	dDl
l r 8 Ccmb	00 2	S	1S	1S	0	a6M0S	dDl
l r 8 Ccmb	0a 2	10	1a	26	2S	24M26	dDl
l c&dnC	2a 1	1046- S4h	100S07S0	10704104	107a1700	SM0S	dDl
l c&vr p	1S0 1	7a	a-	127	ah	- 0M1h	dDl
l c&vr p	1Sh 1	7S	60	42	7-	24M12	dDl
l nocmb	2- 2	42- 0- - 1	4242h66	42h4a77	427a- a4	SM04	dDl
l TpnCTcmb	a6 1	27- 2- 4	27ha02	27hh- 4	2706aS	1M4h	dDl
l TpnCTcmb	aa 1	220ah- S	2- 61ah4	24S616h	2- 4ahh0	2M07	dDl
l m8mp	- 4 1	6407- S	674274	674a6S	672217	SM62	dDl
Ar pecmb	17h 1	aa0002a	a47- h- 6	h1a- a7h	aa- a7Sa	4M17	dDl
Ar pecmb	17h 2	- ah10S0	- a0h7- 7	- hS1- 0h	- ahSa0-	SM2a	dDl
AGw8mb	2S- 1	442	- Sa	727	427	27M02	dDl
AGw8mb	2S7 1	a- -	h42	a42	a02	6M11	dDl
AdC	11a 1	2S42	1a60	1h7h	1h76	4M4a	dDl
AdTwCcmb	40 1	a10	0h2	007	0h4	2M64	dDl
RpwCcmb	2- a 1	412S1	4216-	42- 64	41hSh	1M4a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 724 S-	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUh0&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J44J7a	&wTwUd8 :u wb r :J	S27q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	71 2	70-	- aS	4SS	471	2- M0	dDI
YTTr peomb	102 1	1a-	2Sa	1h2	1h4	6M7	dDI
YTTr peomb	102 2	60	111	h4	h1	24M4	dDI
YTTr peomb	106 1	1- - -	1260	14h2	1- 64	aM0	dDI
YTTr peomb	106 2	1S- 74	1S421	1S101	1S- 17	1M6	dDI
YTTpomb	ah 1	1162- S41	11SS6074	11aahSaa	117S62h4	- M-	dDI
YTTpomb	ah 2	1270S0S	12- a- 07	122a016	1241- a0	1M6	dDI
ZdCd	66 2	112h7	1176a	117- 1	11467	1MS	dDI
ZqpdnComb	hS 1	11SS	1S7S	1S60	1S02	2M0	dDI
ZqpdnComb	h1 1	242	210	2- -	2- 1	7M2	dDI

Reviewed By:Bin
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Inst Id :P8

LB Number :	LB1264O3	5 perator :	Jaswal
Lab Sample ID :	5 - 024XO2L70	Instrumnet Name :	P8
Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Aluminium	23X2	436	022	02O	0O6	0.14	cps
Antimony	121X1	10O	130	242	189	20.O9	cps
Arsenic	30X2	10	11	11	12	18.32	cps
Barium	1- 0X1	1O3- 8	1O046	11- O0	1O86-	- .6-	cps
Barium	1- 3X1	186O0	180- 8	1904O	18894	2.96	cps
Beryllium	9X1	80	80	89	86	2.01	cps
Bismuth	2O9X1	60- 3094	601344-	60- O1O8	6028- 82	O.16	cps
Bismuth	2O9X2	- 1- - 894	- 24O849	- O98- 34	- 103632	2.- 0	cps
Bromine	81X1	14920	16236	1094-	10310	4.48	cps
Cadmium	1O8X1	04	- -	31	0-	- 0.6O	cps
Cadmium	1O6X1	- 392	- 836	- 809	- 842	1.10	cps
Cadmium	111X1	- 04	- 9-	- 3O	- 32	0.- 0	cps
Calcium	4- X1	9O- 3O	91O91	91031	91O1O	O.66	cps
Calcium	44X1	1039029	1089636	161- 01O	10942- 9	1.O9	cps
Carbon	12X1	- O003- 1	- 14- 232	- 121- O2	- 1O6368	1.43	cps
Carbon	12X2	4O3O3	- 9O19	- 8068	- 94- 1	2.86	cps
Chlorine	- 0X1	483029	438300	434233	48O183	1.4O	cps
Chlorine	- 0X2	- 9O9	- - 13	- 436	- 063	8.09	cps
Chromium	02X2	16- O	133-	132-	13O9	4.26	cps
Cobalt	09X2	- 3-	- OO	4O-	- 09	14.81	cps
Copper	6- X2	1O9O	1213	126-	119O	3.04	cps
Dysprosium	106X1	1O8	63	92	89	2- .09	cps
Dysprosium	106X2	- -	13	4O	- O	4O.O0	cps
Erbium	164X1	18-	130	120	161	19.08	cps
Erbium	164X2	4-	0O	6O	01	16.42	cps
Gadolinium	16OX1	142	30	108	120	- 0.28	cps
Gadolinium	16OX2	16-	18O	13O	131	4.9O	cps
Holmium	160X1	9- 40643	918- 938	92O899-	92462O6	O.94	cps
Holmium	160X2	41430O4	4148- 13	414- 3- 6	4146019	O.O6	cps
Indium	110X1	68169OO	68O0O- 6	681O69-	681O836	O.O9	cps
Indium	110X2	9866- 4	968831	932640	936O0O	O.96	cps
Iron	04X2	11900	12O00	12189	12O66	O.93	cps
Iron	06X2	214O80	21938O	21- 6O3	210824	1.09	cps
Iron	03X2	0824	6- 46	0368	0939	0.- -	cps
Krypton	8- X1	204	26O	23O	261	- .14	cps
Lead	2O6X1	1O90	11- 9	1122	1119	2.O1	cps

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Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Lead	2O3X1	8O6	9OO	8O6	8- 3	6.01	cps
Lead	2O8X1	42O6	4O2-	4O89	41O6	2.26	cps
Lithium	6X1	241- 092	2- 01- 88	2- 841O3	2- 8- O29	1.- 1	cps
Magnesium	24X2	1348O2	1369- 4	1693O9	13- 810	2.14	cps
Manganese	00X2	988O	93- -	949O	93O1	2.O-	cps
Molybdenum	94X1	20- 4	240O	2192	2- 92	3.40	cps
Molybdenum	90X1	- 242	- - O9	- 6O9	- - 83	0.33	cps
Molybdenum	96X1	- 392	- 926	4- O1	4OO6	6.08	cps
Molybdenum	93X1	2163	22- 4	200O	2- 13	8.84	cps
Molybdenum	98X1	0626	06- 0	61- 0	0399	0.O2	cps
Neodymium	10OX1	83	1O3	14O	111	24.20	cps
Neodymium	10OX2	4-	4O	0-	46	10.2-	cps
Nickel	6OX2	193	103	2O-	186	1- .6O	cps
Phosphorus	- 1X2	220	192	2O8	2O8	8.OO	cps
Potassium	- 9X2	0- 826	04244	02039	0- 00O	1.62	cps
Rhodium	1O- X1	6692699	6636- 04	631O688	669- 243	O.26	cps
Rhodium	1O- X2	- 200- 29	- 21- 93O	- 14- 8- 6	- 2O4- 38	1.36	cps
Scandium	40X1	4- 8- O12	42- 46O9	42O1003	423- O6O	2.26	cps
Scandium	40X2	1449O-	146O64	143O30	146O14	O.34	cps
Selenium	82X1	41	X16	X4	3	426.90	cps
Selenium	33X2	O	O	O	O	O.OO	cps
Selenium	38X2	19	10	10	16	14.14	cps
Silicon	28X1	- 3- 0016	- 398168	- 833433	- 8O- 32O	1.83	cps
Silver	1O3X1	1O8	08	120	93	- 0.69	cps
Silver	1O9X1	42	42	13	- -	4- .- O	cps
Sodium	2- X2	89- 644	886199	88- 202	883698	O.6O	cps
Strontium	86X1	048O8	0- 428	04- 81	042O6	1.- O	cps
Strontium	88X1	409- 98	46183-	408911	46OO61	O.- 0	cps
Sulfur	- 4X1	- 660- 9	- 60868	- 6628O	- 66229	O.O9	cps
Terbium	109X1	9409182	9299123	928841O	9- 489O6	1.O2	cps
Terbium	109X2	41212- 3	- 99- 3- 0	- 933012	4O- O828	1.90	cps
Thallium	2O- X1	292	- 20	- 8-	- - -	1- .92	cps
Thallium	2O0X1	80O	330	313	381	8.06	cps
Tin	118X1	1692	1420	14O8	10O8	1O.04	cps
Titanium	43X1	292	230	- OO	289	4.41	cps
Uranium	2- 8X1	8038	862O	88O-	8663	1.- 8	cps

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Client Sample ID :	MHOF93L	Dilution Factor :	0
Date & Time Acquired :	2O2- XO3X12 1- :43:06	DataFile Name :	O26AREF.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Vanadium	01X2	1O3	1O3	8O	98	10.30	cps
Ytterbium	132X1	1- -	63	30	92	- 9.6-	cps
Ytterbium	132X2	44	0O	06	0O	11.11	cps
Ytterbium	136X1	1142	1263	1- 42	120O	8.O3	cps
Ytterbium	136X2	1O136	1O604	1O- 99	1O41O	2.- O	cps
Yttrium	89X1	12- O0822	1186991O	12O8O- 0O	12O80- 61	1.8O	cps
Yttrium	89X2	1- O2- 43	1292640	12361- 4	129O- 30	1.O-	cps
Zinc	66X2	260O	232O	2093	2606	2.- -	cps
Zirconium	9OX1	40O	60O	030	008	18.1O	cps
Zirconium	91X1	92	1O8	92	93	9.9O	cps

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LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 724 S4	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUh0l	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUd8 :u wb r :J	S20q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	h24S6	h2046	h2h60	h20S6	SM1S	dDl
qCTb nCE	121 1	7S40S7	717- 21	726h76	71766S	2M16	dDl
qpl r Ccl	07 2	7776	766S	774a	77aa	1M12	dDl
Bwpcmb	1- 7 1	27a1012	26616hS	270Sa02	26S407a	1M1S	dDl
Bwpcmb	1- 0 1	4- hh67a	446ah- -	4441h7a	44- 6a4h	SM0h	dDl
Br pE8&mb	h 1	0S- - 7	0- a- h	0- - 60	02714	2M62	dDl
Bdl b mTG	2Sh 1	622077a	6- 72h76	62- 720a	6201h- 1	1M12	dDl
Bdl b mTG	2Sh 2	2hhaa12	- S616h1	- S76h21	- S- h141	1M17	dDl
Bpmb cCr	a1 1	277h1	- 1244	- 4a44	- S77h	17M26	dDl
5 wob cmb	1Sa 1	4171	4640	46h0	44ha	6M01	dDl
5 wob cmb	1S6 1	h212	h- 47	h70S	h- 06	1M1-	dDl
5 wob cmb	111 1	64- 46	6466h	6- 7h-	642S-	SM46	dDl
5 w8lcmb	4- 1	4264h-	4- h70S	441026	4- 7h- S	1M4h	dDl
5 w8lcmb	44 1	01aah12	0- 01S4-	0- 664S-	0- Sa0a6	1M42	dDl
5 wpenC	12 1	- ah7- - 7	4- 47h42	4662162	4- S1146	aM16	dDl
5 wpenC	12 2	647a4	60h4h	600S0	66040	2M41	dDl
5 G8hpcCr	- 7 1	- - 466ha	4Sa11a-	4672627	4S26a- 7	16M26	dDl
5 G8hpcCr	- 7 2	4Sha4	44a- 0	40- - 6	44- a6	0M21	dDl
5 Gpmb cmb	72 2	- - 7aa1	- - 02h0	- - 7h16	- - 6- 64	SM24	dDl
5 new8T	7h 2	17h42SS	162a1a0	1672S- -	1624aS0	1M0h	dDl
5 nDDr p	6- 2	6SS- 14	6S1- Sh	6SS2a0	6SS6- 0	SM1S	dDl
&El Dpnl cmb	176 1	- - -	- 07	- Sa	- - h	hM14	dDl
&El Dpnl cmb	176 2	170	1h0	17S	16a	17M84	dDl
Fpecmb	164 1	4SS	- 60	2a-	- 7S	10M10	dDl
Fpecmb	164 2	140	16-	1a-	164	11M16	dDl
Hwon8Cmb	16S 1	4- -	4- -	- 7S	4S6	11M46	dDl
Hwon8Cmb	16S 2	270	26-	- 2-	2a1	1- M86	dDl
y n8b cmb	167 1	a67- 60h	hS6SS00	hS- 74h7	ah16410	2M76	dDl
y n8b cmb	167 2	- h0- 770	- ah1a70	- ha7106	- h7S1h0	1M2h	dDl
tCocmb	117 1	67- 7Sah	6626766	64- h202	67- - 642	1M1-	dDl
tCocmb	117 2	h- haSa	h- 127h	h- 17h1	h- 421h	SM72	dDl
tpnC	74 2	11- 7- 0	11- 6- 2	111ha6	11- S71	SM42	dDl
tpnC	76 2	1h074S4	1hhh170	1hh- 2ha	1hah2a6	SM62	dDl
tpnC	70 2	40- h6	4ah- 4	4a2S4	4a10a	1M6S	dDl
KpEDTnC	a- 1	2- 4	264	2- 2	24-	0M20	dDl
Lr wo	2S6 1	h2624	h04h0	h- 6Sa	h4700	2M02	dDl

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LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 724 S4	tCl Tpmb Cr T.u wb r :J	Na
5 8r CTl wb D8 :t&:.J	9 y SUh0l	&c8mTcnC:UwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:1- J7SJ7a	&wTwUc8 :u wb r :J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	a106a	a4S21	a21S-	a26- 1	1M40	dDl
Lr wo	2Sa 1	- 027- 6	- a04- 0	- aS4hh	- aS170	1M16	dDl
LcTGmb	6 1	2- 1h26-	2- 40a4S	2- 2a7S0	2- - 1a0S	SM0-	dDl
9 wgCr l cmb	24 2	a- a606	a4- a2h	a4h12a	a4- a00	SM02	dDl
9 wCgwCr l r	77 2	4740h1	46402h	477706	47a- 67	1M21	dDl
9 n8Eeor Cmb	h4 1	1S274	1S61-	1S40h	1S44h	1M0-	dDl
9 n8Eeor Cmb	h7 1	102h7	16h44	10711	1027S	1M06	dDl
9 n8Eeor Cmb	h6 1	1ahS7	1hS02	1ah02	1aha-	SM44	dDl
9 n8Eeor Cmb	h0 1	1S401	11S77	1SaS7	1S000	2M02	dDl
9 n8Eeor Cmb	ha 1	20S72	2a401	20074	2007h	2M76	dDl
u r noEb cmb	17S 1	aSS	6h-	67-	016	1SM0S	dDl
u r noEb cmb	17S 2	1hS	1h0	2S0	1ha	4M24	dDl
u cdkr 8	6S 2	421617	41h4ha	424h0S	422S2a	SM67	dDl
NGhl DGhpml	- 1 2	2SS	2- -	260	2- -	14M2h	dDl
NnTwl cmb	- h 2	2161ah	21- 764	216h76	21770S	SM4-	dDl
. Ghocmb	1S- 1	6- - 06a4	64Sa1a4	6- 60a00	6- 0124a	SM76	dDl
. Ghocmb	1S- 2	- S61776	- S7h- 7S	- S6- 044	- S6177S	SM80	dDl
l dwCocmb	47 1	4121014	42S160S	41746- h	417h- 41	SM10	dDl
l dwCocmb	47 2	14- a26	1- a62h	14S614	141S2-	1M46	dDl
l r 8 Ccmb	a2 1	hSha	h401	h4a1	h- 7S	2M-	dDl
l r 8 Ccmb	00 2	- - 0	- 1S	240	2ha	17M-	dDl
l r 8 Ccmb	0a 2	1S- 7	1SSa	1S21	1S21	1M2	dDl
l c8dnC	2a 1	1040aSSa	1a1aaS0-	1a2ha17h	10haaSaS	2M40	dDl
l c8vr p	1S0 1	2hS122	2ha0a6	2h- 607	2h41h7	1M4a	dDl
l c8vr p	1Sh 1	202472	200S- S	2a41- -	200a02	2M12	dDl
l nocmb	2- 2	42a676h	42a4017	4260- 40	420h744	SM27	dDl
l TpnCTcmb	a6 1	27SS70	26S714	27ah2a	2764hh	2M2S	dDl
l TpnCTcmb	aa 1	22aS741	22aa747	2- a2421	2- 1016h	2M44	dDl
l m8mp	- 4 1	64- 7S6	67h- - S	6700hS	67- 742	1M4	dDl
Ar pecmb	17h 1	ah2a10-	h10160-	h2- S114	h1Shha0	1M06	dDl
Ar pecmb	17h 2	- hS7006	- h221a2	- a- h- 0S	- aah1Sh	1M1-	dDl
AGw8cmb	2S- 1	26h6- 1	2a27h1	200- 01	2067- 1	2M6	dDl
AGw8cmb	2S7 1	66S4h2	6a24a2	60416a	602- a1	1M67	dDl
AcC	11a 1	1hh2	2- 7h	2610	2- 22	1- M-	dDl
AcTwCcmb	40 1	h27	1S7S	1S27	1SSS	6M61	dDl
RpwCcmb	2- a 1	4S0Sa	42S12	426ha	41aS6	2M42	dDl

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Inst Id :P8

LB:umber pJ	LB1264S0	3 Drpw7hpJ	swl Pw8
Lwe:l wb D8:t&:J	3 - 724 S4	tCl Tpmb Cr Tuwbr:J	Na
5 8r CTl wb D8:t&:J	9 y SUh0l	&8mTcnC:UwdThpJ	1
&wTr:i :Adbr:qdOmprro:J	2S2- S0 12:1- J7SJ7a	&wTwUd8:uwbr:J	S20q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwoomb	71 2	64420h	6426Sa	64- 16-	64- - 7S	SM1-	dDl
YTTrpeomb	102 1	210	210	227	21h	2M1h	dDl
YTTrpeomb	102 2	1S6	h4	h4	ha	6M74	dDl
YTTrpeomb	106 1	147S	17- -	14h2	14h2	2M0h	dDl
YTTrpeomb	106 2	1S174	h417	h626	h0- 2	- M11	dDl
YTTpomb	ah 1	1170ah1-	117Sa4- a	11h7a720	116a1h7h	2M80	dDl
YTTpomb	ah 2	126- h- 0	12446a2	127242S	127- 6aS	SM00	dDl
ZdCd	66 2	176071	17a407	176h0-	1704SS	SM0S	dDl
ZqpdnComb	hS 1	1107	1127	1227	1107	4M26	dDl
ZqpdnComb	h1 1	- 7a	- - -	260	- 1h	14M4-	dDl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUhN	&dPmTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:u sb r :J	S2Nq . FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb dCcmb	20 2	1hhS	2S76	2120	2S7N	- M4	dDw
qCTb nCE	121 1	1S- -	1127	1S60	1S07	4M2	dDw
qpwr Ccd	07 2	74	6-	64	6S	hM1-	dDw
Bspcmb	1- 7 1	7SN46	71066	72Nh6	71N- 6	1M1N	dDw
Bspcmb	1- 0 1	Nh066	h20S1	h2- - 2	h16SS	1M07	dDw
Br pEPRmb	h 1	21S	21h	246	227	NM41	dDw
Bcvb mTG	2Sh 1	62N464N	620hN4S	0S4166h	67- 7- N7	6M01	dDw
Bcvb mTG	2Sh 2	- 11NN74	- Sh7SN2	- S047N2	- Sh610-	SM02	dDw
Bpmb dCr	N1 1	20N47	- - h27	- 0107	- 2hN2	14M6	dDw
5 sob cmb	1SN 1	42	6-	21	42	7SM3S	dDw
5 sob cmb	1S6 1	- - 06	- 460	4Sh2	- 647	1SM0S	dDw
5 sob cmb	111 1	4SS	- 0N	4hh	426	17M12	dDw
5 sPdcmb	4- 1	42h0S1	44- N0S	44Sh- 2	4- N16N	1M01	dDw
5 sPdcmb	44 1	016N- 0h	0412S60	0- 4h6h2	0- 1SS46	1M0-	dDw
5 spenC	12 1	- N- 0h2-	42- N72S	44h2102	41Nh7- N	0MM0	dDw
5 spenC	12 2	6S671	6- S20	62hN7	62221	2M1h	dDw
5 GPmpdCr	- 7 1	1Nh6hh4	1N4- 1- -	1N11S20	1N7S- N7	2M17	dDw
5 GPmpdCr	- 7 2	12S14	12222	11N22	12S1h	1M60	dDw
5 Gpmb cmb	72 2	4h14	7SN1	4NhN	4h64	2M34	dDw
5 nesPT	7h 2	2104	2S00	211S	212S	2M12	dDw
5 nDDr p	6- 2	27h0	2700	27N0	27N0	SM1h	dDw
&EwDpnwcmb	176 1	- - -	427	260	- 42	2- M20	dDw
&EwDpnwcmb	176 2	1- -	1- -	1N0	171	2SM1N	dDw
Fpecmb	164 1	- N-	227	- 42	- 10	27M12	dDw
Fpecmb	164 2	160	2SS	100	1N1	hM14	dDw
HsonPdCcmb	16S 1	4SN	- SS	4h2	4SS	24M3-	dDw
HsonPdCcmb	16S 2	2NS	- h-	2N-	- 1h	2SM22	dDw
y nPb cmb	167 1	NNhh740	NhN1h77	1S- hNN1S	h426001	NM14	dDw
y nPb cmb	167 2	4S2S7- S	4S6NSS2	- hNh27N	4S27h- S	SM1N	dDw
tCocmb	117 1	67S0h72	6N16217	04h6hh2	6h4S- N6	0M2h	dDw
tCocmb	117 2	h7N77-	h72- S4	h- NS6S	h4h6- h	1M1	dDw
tpnC	74 2	1S4h-	1S206	1Sh4-	1S701	- M2	dDw
tpnC	76 2	1N0S24	1NN606	1N- h21	1N674S	1M2h	dDw
tpnC	70 2	614S	6S70	621N	61- N	1M1	dDw
KpEDTnC	N- 1	226	274	276	247	6M0N	dDw
Lr so	2S6 1	2N- 4	- 12-	- S0-	- S1S	7M1-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S7	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUhN	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdP:usb r:J	S2Nq. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	22Nh	2411	2- Nh	2- 6-	2M06	dDw
Lr so	2SN 1	11SNS	11h07	11627	1176S	- M1S	dDw
LdTGmb	6 1	22N4- 6-	2- N67NS	27- 1N1-	24SSh1h	7M1N	dDw
9 sgOr wcmb	24 2	N- 0S02	N46NS-	N- N466	N4S0N1	SM0-	dDw
9 sOgsOr wr	77 2	40- SN	462- N	46N40	460hN	1M17	dDw
9 nPEeor Cmb	h4 1	1S20h	1S02h	1S- 6-	1S470	2M2h	dDw
9 nPEeor Cmb	h7 1	16061	10N- 0	10N47	104N1	- M70	dDw
9 nPEeor Cmb	h6 1	1NS0h	1Nh02	1N7h0	1N74h	2M42	dDw
9 nPEeor Cmb	h0 1	1S646	1Sh21	1SN77	1SNS0	1M-	dDw
9 nPEeor Cmb	hN 1	20N0S	2NS12	2NS01	20hN4	SM0	dDw
u r noEb cmb	17S 1	6N0	660	0S0	6N0	2M1	dDw
u r noEb cmb	17S 2	1h0	2S-	210	2S6	4M7	dDw
u cdkr P	6S 2	1Sh0	1140	11N-	1142	- M1	dDw
8 GhwDGhpmw	- 1 2	27S	260	210	244	1SM1	dDw
8 nTswwcmb	- h 2	21N1- h	2106h2	216- 0-	2104S1	SM2	dDw
. Ghocmb	1S- 1	6- N1NSh	67611hh	0- 12010	6071hSN	0M1	dDw
. Ghocmb	1S- 2	- 1224N-	- ShS- - S	- S0hNN1	- Sh0767	SM2	dDw
I dsCocmb	47 1	416676h	4- - 64N0	4N772NS	447200h	NM6	dDw
I dsCocmb	47 2	14- h40	144S07	141116	14- S46	1M0	dDw
I r PCcmb	N2 1	N4	06	117	h2	22M2	dDw
I r PCcmb	00 2	S	-	S	1	10- M1	dDw
I r PCcmb	0N 2	16	21	10	1N	14M0S	dDw
I dPdnC	2N 1	1060- 1- 7	1N22NN26	1NS14476	10h021- h	1M6	dDw
I dPr p	1S0 1	h2	N-	142	1S6	2hMh	dDw
I dPr p	1Sh 1	07	h2	07	N1	11M7	dDw
I nocmb	2- 2	4272642	4- 7h167	42- 7N- 4	42N2740	1M6	dDw
I TpnCTcmb	N6 1	2444h1	26S671	270h12	274- 71	- M4S	dDw
I TpnCTcmb	NN 1	2220NS2	2- 01442	22061- 0	22h10h4	- M1h	dDw
I mPmp	- 4 1	641401	6770h7	646- hS	640NN7	1M2	dDw
Ar pecmb	17h 1	hS617h2	h226h42	1S46- 007	h7N41S-	NMS	dDw
Ar pecmb	17h 2	- h770h6	- h1h- 7-	- N2h171	- hS14- -	1M0	dDw
AGsPPcmb	2S- 1	7SS	4N-	460	4N-	- M7	dDw
AGsPPcmb	2S7 1	1210	1Sh2	1- 27	1211	hM04	dDw
AdC	11N 1	1- 004	14416	14S- -	14S04	2M1S	dDw
AdSCcmb	40 1	07N	h42	0N-	N2N	12MS1	dDw
RpsCcmb	2- N 1	417h4	4S24N	42277	41- 67	2M40	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 724 S7	tOwTpmb OrTusb r:J	8 N
5 RrCTI sb DPr:t&:J	9 y SUhN	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:1- J7- J7-	&sTsUdPr:usb r:J	S2Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	71 2	67S	700	070	661	1- M6h	dDw
YTTr peomb	102 1	160	2SN	107	1N-	12N8-	dDw
YTTr peomb	102 2	110	h4	Nh	1SS	14M0S	dDw
YTTr peomb	106 1	14- -	147S	17SN	1464	2M6h	dDw
YTTr peomb	106 2	hN- 2	1S71S	1S- 1S	1S210	- M41	dDw
YTTpomb	Nh 1	1171N474	12S64h- h	1- 414SS6	12- - 2466	0M11	dDw
YTTpomb	Nh 2	120N001	1260221	12- 46S1	126S1h0	1MM2	dDw
ZdCd	66 2	12h6-	12776	124hh	12602	2N8S	dDw
ZqpdnComb	hS 1	11N-	1S10	1- SN	110S	12M71	dDw
ZqpdnComb	h1 1	27N	242	27N	27-	- MM1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPmTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:u sb r :J	S2. qF UMPb

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r sC	9 8 l F l &	5 CdTw
qPmb cCcmb	20 2	2SS7	21S0	2S17	2S42	2P00	dDw
qCTb nCE	121 1	N60	N07	NSS	N40	4PN7	dDw
qpwr Ccd	07 2	62	61	02	67	. P6	dDw
Bspcmb	1- 7 1	4N. - 1	72S. -	4. 67N	7S220	- P S	dDw
Bspcmb	1- 0 1	N4. N4	N7621	NN. S1	N67S2	2P4-	dDw
Br pEPPmb	. 1	1. .	2S2	1N7	1. 7	4P02	dDw
Bcwb mTG	2S. 1	74S1114	64606N-	6- SN62.	6S7. 142	. P7S	dDw
Bcwb mTG	2S. 2	- S- . S7N	- S. S. 2-	- 11SS4-	- SNSSSN	1P1.	dDw
Bpmb cCr	N1 1	20NS4	- 40. 4	- 0N00	- - 4. 1	17P41	dDw
9 sob cmb	1SN 1	7N	7N	07	64	17PS6	dDw
9 sob cmb	1S6 1	2N10	- 026	4S10	- 72S	10P0N	dDw
9 sob cmb	111 1	- S-	47-	424	- . -	2SP14	dDw
9 sPdcmb	4- 1	4726- N	471. S0	461S26	4771. S	1P11	dDw
9 sPdcmb	44 1	0762411	006- 724	00- 7710	06N0171	1P42	dDw
9 spenC	12 1	- N- 0171	41. 02S6	447- 77S	41626- 6	0P44	dDw
9 spenC	12 2	6S7- -	6- 274	6261N	621- 7	2P2.	dDw
9 GPmpcCr	- 7 1	12S- 664	12266N0	122. . 7.	122S1S-	1P10	dDw
9 GPmpcCr	- 7 2	N4. 4	N66.	NN7-	N602	2PS0	dDw
9 Gpmb cmb	72 2	1N6-	1N6S	1. 1S	1N0N	1P4.	dDw
9 nesPT	7. 2	1000	10NS	10- 0	1067	1P 0	dDw
9 nDDr p	6- 2	24- 0	22- 4	2- N4	2- 71	4P4N	dDw
&EwDpnwcmb	176 1	- 27	- 10	2N-	- SN	0P17	dDw
&EwDpnwcmb	176 2	1. S	1- -	140	170	1NP 1	dDw
Upecmb	164 1	- 7N	- SS	- 60	- 42	1SP6-	dDw
Upecmb	164 2	140	14-	14-	144	1P -	dDw
HsonPCcmb	16S 1	4SS	47S	47S	4- -	6P66	dDw
HsonPCcmb	16S 2	2- -	2- -	- - S	266	21PS2	dDw
h nPb cmb	167 1	06N- . 1.	N. - - 7NN	N. 0NN62	N7- 212-	NP61	dDw
h nPb cmb	167 2	- . 60070	- . N11- S	41S61S.	4S1N- - 2	1P S	dDw
tCocmb	117 1	74N1721	67S4- NN	66- . 4S1	62SN4- 0	1SP2S	dDw
tCocmb	117 2	. 4NN77	. 42NN7	. 0020S	. 76- - 0	1P 2	dDw
tpnC	74 2	7- 2.	7- 0.	7- - 4	7- 40	SP71	dDw
tpnC	76 2	. 07- .	. - . 64	. 2- 2S	. 46SN	2PN2	dDw
tpnC	70 2	- 460	- 6- 4	- . - 4	- 60N	6P4-	dDw
KpEDTnC	N- 1	224	266	26.	27-	1SPSS	dDw
Lr so	2S6 1	1N61	16N-	1022	1076	7P 2	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 724 S6	tOwTpmb Or T.usb r:J	8 N
9 Pr CTI sb DPP:t&:.J	y h SM .	&dPmTcnC:MsdTnp.J	1
&sTr :i :Adb r:qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdPP:usb r:J	S2. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	2S0 1	167S	1447	1411	17S2	NP61	dDw
Lr so	2SN 1	0S0.	02- 4	0S2-	0112	1P74	dDw
LdTGmb	6 1	211N767	2- 62- - 2	2- - 4. 67	2201. 74	7PNN	dDw
y sgOr wcmb	24 2	. 47N2N	. 4. N0.	. 4. 7- 0	. 4N417	SP24	dDw
y sOgsOr wr	77 2	44107	4- N60	4- 71-	4- N72	SP06	dDw
y nPEeor Cmb	. 4 1	1- . 66	14. 27	14766	144N6	- P. 7	dDw
y nPEeor Cmb	. 7 1	1666.	1062N	1067-	10- 10	- P24	dDw
y nPEeor Cmb	. 6 1	1. 140	1. N76	2S167	1. 02-	2P67	dDw
y nPEeor Cmb	. 0 1	1S746	11402	1S66-	1SN. -	4P6-	dDw
y nPEeor Cmb	. N 1	20444	2NSN0	2N764	2NS- 2	2PSS	dDw
u r noEb cmb	17S 1	60-	61-	760	61N	NP66	dDw
u r noEb cmb	17S 2	1. 0	1N-	1. -	1. 1	- P6-	dDw
u cdkr P	6S 2	720	62S	74S	762	NP. N	dDw
8 GhwDGhpmw	- 1 2	1. 2	- - -	2SN	244	- 1P6N	dDw
8 nTswwcmb	- . 2	210S40	216S7.	21- 6SN	217701	SPN2	dDw
F Ghocmb	1S- 1	77N. N. N	6471N. N	66SS74N	6214114	NP0N	dDw
F Ghocmb	1S- 2	- SN0712	- SN1NS6	- 106444	- 117274	1P0S	dDw
I dsCocmb	47 1	- 770070	427- 626	42S1. - 6	4SS444S	. P6N	dDw
I dsCocmb	47 2	1- . . 24	14- 6- S	146- 21	14- 2. 2	2P24	dDw
I r PPCcmb	N2 1	111	121	. 6	11S	11P4N	dDw
I r PPCcmb	00 2	0	-	1S	0	7SPS-	dDw
I r PPCcmb	0N 2	21	1.	2-	21	. P72	dDw
I dPdnC	2N 1	10- 22S20	1060460-	10. 1. 4N.	106- N0- S	1P0S	dDw
I dPr p	1S0 1	1SN	160	1SS	127	2. PS6	dDw
I dPr p	1S. 1	1SN	7S	27	61	6. P. N	dDw
I nocmb	2- 2	47N. - 00	47N0417	40S0761	462N11N	1P4.	dDw
I TpnCTcmb	N6 1	20000.	206627	20601.	200S41	SP2-	dDw
I TpnCTcmb	NN 1	24. N. 6S	244076N	24677. 0	240S0SN	1PS6	dDw
I mPPmp	- 4 1	021. 17	0- 27- 2	04- NS6	0- 2071	1P4.	dDw
Ar pecmb	17. 1	0N7S- . 0	. 2S. - - 7	. 2. - - 6S	N0N4- 64	. P22	dDw
Ar pecmb	17. 2	- . SNS. 4	- N012- 2	4111N. 4	- . 6- 04S	- P20	dDw
AGsPPmb	2S- 1	- . 2	2. 2	- 07	- 7-	17P1.	dDw
AGsPPmb	2S7 1	N7S	0. 2	010	0N6	NP7S	dDw
AdC	11N 1	27- 4	117- N	2660	77NS	. 2P4.	dDw
AdSCcmb	40 1	. 07	11. 2	0. 2	. N6	2SP. 2	dDw
5 psCcmb	2- N 1	44SS2	44646	44462	44- 0S	SP07	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 724 S6	tOwTpmb Or Tu sb r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SM .	&dPnTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:1- J76J74	&sTsMdP:u sb r :J	S2. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	71 2	4S-	440	42S	42-	7P16	dDw
YTTr pe omb	102 1	27N	260	242	276	4P.N	dDw
YTTr pe omb	102 2	111	122	176	1- S	10PN4	dDw
YTTr pe omb	106 1	127S	12- -	147S	1- 11	. P2S	dDw
YTTr pe omb	106 2	. 717	. N. -	1S26S	. NN.	- P00	dDw
YTTpomb	N. 1	1SS4S0- .	11N174- 0	110N1. N4	1121202S	. PS7	dDw
YTTpomb	N. 2	127. . 16	1272006	1- S62- 2	1202. 07	2P2N	dDw
ZdCd	66 2	. 6. 0	. 0. S	. 6- -	. 0S0	SPN1	dDw
ZqpdnComb	. S 1	12017	12. . N	1- 117	12. 42	1P7.	dDw
ZqpdnComb	. 1 1	- 160	267S	2007	2N64	. P41	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T8biqC. :MwOICI:J	1
Twip:A:coe p:dOobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . ql
d8be q dpe	20 2	417	- 41	- 00	- 0u	aR06	Ol l
d. ioe C. E	121 1	- 07	- 27	47u	- u6	10R47	Ol l
dIl p. oO	07 2	4	7	-	4	27RSS	Ol l
Bwldpe	1- 7 1	2a07	267S	2aSa	2u47	6RS4	Ol l
Bwldpe	1- 0 1	72- 7	721u	7S1u	7170	2R 4	Ol l
BplE8dpe	a 1	44	4a	- a	44	11R42	Ol l
Bdqe biG	2Sa 1	6106110	620aaa6	7a71a0a	61- 6S- S	2R0-	Ol l
Bdqe biG	2Sa 2	2au0- SS	- 1S0- 62	- S61a- a	- S722SS	1Raa	Ol l
BlOe q p	u1 1	114- S	1S12a	uua7	1S171	12R4a	Ol l
9 wne dpe	1Su 1	1-	21	7S	2u	0SRua	Ol l
9 wne dpe	1S6 1	- 7- 4	- 442	- S07	- - 7S	0R24	Ol l
9 wne dpe	111 1	- 04	- 60	2a-	- 47	12Ra7	Ol l
9 w8Odpe	4- 1	12- 1	1- 11	12- 1	127u	- R60	Ol l
9 w8Odpe	44 1	74- 70	76S17	7442-	74a- 2	1R01	Ol l
9 wIr C.	12 1	- u- 1SSa	411a2a6	4477Sa6	41- 71- 4	0R77	Ol l
9 wIr C.	12 2	7u742	6S610	7a446	7a7- 7	1R07	Ol l
9 G8Clq p	- 7 1	0au- 64	0u7u4S	00170a	0u7261	1R01	Ol l
9 G8Clq p	- 7 2	7726	7S26	4uSa	712S	0R1u	Ol l
9 GlOe dpe	72 2	- aa4	- a00	- u- 4	- a- 7	2R24	Ol l
9 Or w8	7a 2	4u-	- u-	42-	4- S	11R01	Ol l
9 Ot t pI	6- 2	14a-	176-	14SS	14u6	7R72	Ol l
TEl t IOl dpe	176 1	u	42	7S	- -	66R17	Ol l
TEl t IOl dpe	176 2	1-	20	10	1a	- 6R07	Ol l
UIr dpe	164 1	127	42	7u	07	7uR0a	Ol l
UIr dpe	164 2	0	7S	1S	22	1SuR7S	Ol l
HwnO8q dpe	16S 1	u-	127	07	a4	2uR 6	Ol l
HwnO8q dpe	16S 2	12S	1- 0	110	124	uR61	Ol l
h O8e dpe	167 1	u42a4aa	uu27a- S	u0- 4SuS	u66- 10S	2R4S	Ol l
h O8e dpe	167 2	- a0766-	- a70- a4	- auaaa0	- a04- 71	SR41	Ol l
& ndpe	117 1	62a- - ua	6416776	62u1u27	6- - S7aS	1R1u	Ol l
& ndpe	117 2	a- S7- 6	a2S670	a4- 141	a- 1447	1R21	Ol l
&C.	74 2	- 2001	- 2406	- - - - -	- 2u6S	1R -	Ol l
&C.	76 2	7aSa1S	6SSu4-	6S44- 1	7au02u	1R10	Ol l
&C.	70 2	171u1	1747-	14u72	17162	1Rau	Ol l
KIEt iC.	u- 1	264	264	2- 4	274	6Rd-	Ol l
Lpwn	2S6 1	2747	2- 47	240u	2476	4R17	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	Tq8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMq8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	2S- 4	1a2u	21ua	2S7S	6R41	OI
Lpwn	2Su 1	a072	a770	a6S0	a6- a	1RS7	OI
LqiGdpe	6 1	2161uS1	22022u1	22- 6- aS	222- 4a1	2R7-	OI
y wg. pl dpe	24 2	a60	1142	u- -	au1	17R0a	OI
y w. gw. pl p	77 2	2u24	2a44	2070	2u41	- R -	OI
y C8Er np. be	a4 1	17S	207	- 27	27S	- 6RS6	OI
y C8Er np. be	a7 1	2SS	110	27S	1ua	- 7R66	OI
y C8Er np. be	a6 1	227	410	242	2a4	- 6RS6	OI
y C8Er np. be	a0 1	1Su	110	07	1SS	22RS7	OI
y C8Er np. be	au 1	2SS	- 27	- 7S	2a2	20R77	OI
mpOnEe dpe	17S 1	0-	0-	7-	60	10R 2	OI
mpOnEe dpe	17S 2	2-	- S	- -	2a	10R6-	OI
mqOkp8	6S 2	1- 1S	12uS	1- S0	12aa	1R20	OI
NGOI t GOIbI	- 1 2	242	207	242	27-	0R61	OI
NOiwI l dpe	- a 2	1- - S0	1- 717	1- - 2-	1- - u2	SRu0	OI
F GOndpe	1S- 1	6- - S1S2	6- 76u2S	62aSS6u	6- 2766-	SR7-	OI
F GOndpe	1S- 2	- S4aa16	- SS6212	- Saa- a0	- S71u42	1R7-	OI
DOw. ndpe	47 1	4S- 1720	41- S- - 1	41Sa2- 0	4SaS- 67	1R20	OI
DOw. ndpe	47 2	1421u-	14S- 27	144004	142420	1R70	OI
Dp8p. dpe	u2 1	6	74	- S	6	04SR26	OI
Dp8p. dpe	00 2	S	S	0	2	10- R21	OI
Dp8p. dpe	0u 2	1a	1a	1-	10	2SRu	OI
Dq8qC.	2u 1	2422u-	2- a100	2- 0- 67	2- a6Su	1RS4	OI
Dq8vpI	1S0 1	7u	1Su	1Su	a2	- 1R7S	OI
Dq8vpI	1Sa 1	27	- -	7S	- 6	- 7R27	OI
DOndpe	2- 2	0- 02u	02401	0- 062	0- - 2S	1RSS	OI
DiIC. idpe	u6 1	uSu	0a2	07S	0u-	- Ru4	OI
DiIC. idpe	uu 1	- 7- 4	- 6u4	- 726	- 7u1	2R4a	OI
Db8bI	- 4 1	2a21a7	2a260u	2u6- - 1	2aS4S1	1R22	OI
cpIr dpe	17a 1	ua64aSa	ua7647a	uu0u21u	ua- - 1a7	SR74	OI
cpIr dpe	17a 2	- u2a0- 7	- u2172-	- uu240-	- u44700	SRu6	OI
cGw8dpe	2S- 1	- - -	2a2	- 10	- 14	6R6u	OI
cGw8dpe	2S7 1	6u-	607	7Su	622	17Ru0	OI
cq	11u 1	267S	2742	27a2	27a7	2RSa	OI
cqiw. dpe	40 1	1142	1- u-	1227	127S	aRu2	OI
5 Iw. dpe	2- u 1	1SS	127	60	a0	- SR1S	OI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t plwiCI:J	swl Pw8
Lwr :Dwe t 8p:&T :J	3 - 724 S0	& l ilbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SMdS	T 8piqC. :MwOCI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- S0 12:1- J7aJ72	TwiwMd8p:mwe p:J	S- SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	6S	0S	uS	0S	14R2a	Qt l
Yiiplr dpe	102 1	42	a2	42	7u	4aR4u	Qt l
Yiiplr dpe	102 2	S	2u	61	- S	1S- R26	Qt l
Yiiplr dpe	106 1	12Su	1107	1127	110S	- R7a	Qt l
Yiiplr dpe	106 2	a006	1S71S	1S- 74	1S21-	- R0a	Qt l
Yiildpe	ua 1	11- a0066	12SS6016	111a012a	117- - u0S	- R36	Qt l
Yiildpe	ua 2	12467a-	1271S0u	126471u	1274S6-	SR04	Qt l
Zq O	66 2	2440	2- 0S	24u4	24- 4	2R u	Qt l
ZdOC. dpe	aS 1	7SS	7a2	427	7S6	16R71	Qt l
ZdOC. dpe	a1 1	160	07	127	122	- 0R77	Qt l

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LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	1S2	1S2	1S2	1S2	SN8S	dDl
q. Tb C. h	121:1	42	60	42	-S	2NNN0	dDl
qpl r . cl	0-:2	6	2	7	4	-6N00	dDl
Bwpcmb	17-:1	42	-N	-S	-S	16N06	dDl
Bwpcmb	170:1	-S	N7	-S	61	71MS	dDl
Br ph8&mb	:1	77	44	21	72	74N0S	dDl
Bdl b mTE	2S :1	640 6N7	6610 42	6-1S4N6	6-76S70	1M11	dDl
Bdl b mTE	2S :2	724 N76	7224067	71270S7	71 474	2N8	dDl
BpCb c r	N1:1	-71N	4 47	-S74	-S N	7NN4	dDl
Fwob cmb	1SN:1	-4	0-	77	-4	7NN46	dDl
Fwob cmb	1S6:1	76S1	7N60	7674	70S1	7M7	dDl
Fwob cmb	111:1	740	7-1	7-0	7-2	1N70	dDl
Fw8lcmb	47:1	2-	24-	270	240	4N76	dDl
Fw8lcmb	44:1	7- 26	767 S	7-04-	76S2S	SM2	dDl
FwpeC.	12:1	244-711	242N261	247S217	2474- -	SN7N	dDl
FwpeC.	12:2	2 664	2 S 6	2 -S-	2 422	1N8S	dDl
FE8Cpc r	7-:1	462- 6	44NN-7	47N120	44 N-N	2N07	dDl
FE8Cpc r	7-:2	7174	71 2	2-SS	2 42	17N84	dDl
FEpCb cmb	-2:2	1140	121S	N7	1117	1SMS	dDl
FCew8T	- :2	70	27	70	72	27MS	dDl
FCDDr p	67:2	6N7	667	007	0S0	NN2	dDl
&hl DpCl cmb	1-6:1	10	N	S	N	1SSN82	dDl
&hl DpCl cmb	1-6:2	7	S	7	2	N6N0S	dDl
Upecmb	164:1	0-	-N	-N	64	1-N86	dDl
Upecmb	164:2	27	77	70	71	22M71	dDl
GwoC8c mb	16S:1	142	1SS	N7	1SN	20N07	dDl
GwoC8c mb	16S:2	170	S	147	127	27M6	dDl
HC8b cmb	16-:1	S-6 11	716-61	SN20-N	1-2S00	1M6	dDl
HC8b cmb	16-:2	42N16N2	4166NS0	7 -40	414 74-	7M42	dDl
t. ocmb	11-:1	6622 72	6N-0-64	66071S2	6010N66	1NN4	dDl
t. ocmb	11-:2	1S7-S72	1S116-S	-N7S2	1SS1661	7M7	dDl
tpC.	-4:2	7N	761	7-6	76	4NN-	dDl
tpC.	-6:2	2 N4	2N-S	2 10	2 10	2N2	dDl
tpC.	-0:2	N7	1S6	1S6	N	17N80	dDl
KphDTC.	N7:1	2 S	241	2-0	267	N44	dDl
Lr wo	2S6:1	077	6N	622	6N2	NN21	dDl

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	677	6S6	644	62N	7M1	dDl
Lr wo	2SN:1	2 N4	204-	2077	2N21	-N81	dDl
LcTEcmb	6:1	240766N	24S1-2S	27-N67	2411206	2M41	dDl
9 wg. r l cmb	24:2	1SN	1SS	60	2	24N8-	dDl
9 w. gw. r l r	- - :2	NS	-0	00	01	10M04	dDl
9 C8heor . mb	4:1	12-	2SS	2SN	10N	2-M12	dDl
9 C8heor . mb	- :1	77	-S	-S	44	21M06	dDl
9 C8heor . mb	6:1	1SN	1-S	1SN	122	1 M0N	dDl
9 C8heor . mb	0:1	10	2	10	42	1S7M1	dDl
9 C8heor . mb	N:1	60	60	60	60	SM8S	dDl
u r Cohb cmb	1-S:1	0	0	S	4	N6M0S	dDl
u r Cohb cmb	1-S:2	7	S	S	1	107M21	dDl
u cdkr 8	6S:2	-7	-7	40	-1	0M12	dDl
3 ECl DECpm	71:2	1 2	20-	160	211	26MN0	dDl
3 CTWl cmb	7 :2	11SNS	1S -4	1S07N	1S 24	1M1N	dDl
y ECocmb	1S7:1	60S6614	6NN62 -	6044SNS	600N 0	1M4S	dDl
y ECocmb	1S7:2	77NN666	7200NS7	711 4S2	7261 -0	4M1-	dDl
l dw. ocmb	4- :1	472 6-2	44-0077	4761N74	47N7S07	1M12	dDl
l dw. ocmb	4- :2	1- -264	1-11N1	144S1-	1-S1-7	7M0	dDl
l r 8 . cmb	N2:1	:47	:	:1	:1N	:12-M6	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1S	14	1	14	71M46	dDl
l c8dC.	2N:1	1N0N6N	1N244S	1N1141	1N7N10	1M4	dDl
l c8vr p	1S0:1	142	142	0-	11	72M27	dDl
l c8vr p	1S :1	42	N7	2	02	70M8	dDl
l Cocmb	27:2	2N42N	2N04-	2 664	2N 46	2M22	dDl
l TpC. Tcmb	N6:1	4SN	-0-	4-S	40N	1NM1-	dDl
l TpC. Tcmb	NN:1	1142	12SN	0N7	1S4-	21MN	dDl
l m8mp	74:1	7SSS7-	2 N6 0	7S7044	7SSN2-	SMN0	dDl
Ar pecmb	1- :1	700-72	46-S21	- -1200	46461S	SM2	dDl
Ar pecmb	1- :2	422 4-1	4S1N662	7 S160S	4S4 2N	4M1S	dDl
AEw8cmb	2S7:1	277	72-	2N7	2N1	16M76	dDl
AEw8cmb	2S- :1	-42	-60	02-	611	16M20	dDl
Ac	11N:1	1177	11-N	1N6N	17N0	7SM8N	dDl
AcTw. cmb	40:1	10-	142	1 2	16	1-M82	dDl
5 pw. cmb	27N:1	42	2-	2-	71	71MS	dDl

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LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 2SBL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 2S	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J14aS-a-	&wTwRc8 Ju wb r Ja	S72FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Vw. wocmb	-1:2	1S	10	1S	12	71MS	dDl
YTTr pecmb	102:1	77	-S	0-	-7	7 M04	dDl
YTTr pecmb	102:2	22	77	-6	70	4-MM4	dDl
YTTr pecmb	106:1	1277	11 2	11N7	12S7	2M27	dDl
YTTr pecmb	106:2	11SS-	11S 4	1S2-4	1S0N4	4M2N	dDl
YTTpcmb	N :1	12212-1N	12402216	12407614	127N6116	1M21	dDl
YTTpcmb	N :2	144N116	14S0-NS	120-4S	1700S7-	6M6	dDl
Zc d	66:2	117	117	177	12S	M02	dDl
ZqpdC. cmb	S:1	7 2	-2-	4N7	460	14M62	dDl
ZqpdC. cmb	1:1	1SS	0-	N7	N6	14M0N	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 2SB:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l T RdNpamI e pas	S77LF: UMd

3l l e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9 pl .	F3: y: &	5. dP
qNbe c dbe	20J2	1-0-	161-	1 --	101-	12M1u	dDP
q. Tde C. h	121J1	16 u6	1072u	104 -	1020S	1M1S	dDP
qlPp. cd	0-J2	2--	260	242	2--	4M1	dDP
Bl ldbe	17-J1	1uS12	1 214	1 122	1u0u7	7M6	dDP
Bl ldbe	170J1	72264	776S1	77241	77S7-	2M3	dDP
BplhNbe	J1	22-6	224S	216S	221	2M12	dDP
BdPe bTE	2S J1	6-707-	64-u7	6-4u14u	6-14676	SM0-	dDP
BdPe bTE	2S J2	7227 0-	7102 S7	772--4u	724SuSu	2M4S	dDP
BlCe c p	u1J1	44S1	44-	4474	4471	SM66	dDP
Fl oe dbe	1SuJ1	27u	22-	710	26S	1 M14	dDP
Fl oe dbe	1S6J1	41-	77-1	41u4	7u u	12M10	dDP
Fl oe dbe	111J1	2u12	264	24u4	264	6M1	dDP
Fl Ndbe	47J1	1277	124 6	121u6	1274S	1M26	dDP
Fl Ndbe	44J1	22 S	272u47	272Su2	271741	SM6	dDP
Fl lr C.	12J1	27472S1	27-76 4	27--0-2	27-Suu2	SM2	dDP
Fl lr C.	12J2	2 221	2u6S7	2uS-2	2u626	2M34	dDP
FENCl c p	7-J1	7u42 1	701112	766122	707u42	2M1	dDP
FENCl c p	7-J2	2010	26SS	20-	26 2	7M3-	dDP
FElCe dbe	-2J2	626u	62Su	6-S-	6720	2M4u	dDP
FCrl NT	- J2	4u44	4uu1	-S0u	4 74	2M4	dDP
FCDDpl	67J2	u07	uu47	11S	uu 0	2M1-	dDP
&hPDlCPtbe	1-6J1	77	10	u	1	6-M10	dDP
&hPDlCPtbe	1-6J2	7	1S	S	4	114M0S	dDP
Ulr dbe	164J1	42	2	42	-u	4 M4u	dDP
Ulr dbe	164J2	4S	77	2S	71	72M07	dDP
Gl oCNdbe	16SJ1	60	42	u7	64	72M07	dDP
Gl oCNdbe	16SJ2	120	11S	147	120	17M16	dDP
HCNdbe	16-J1	441406	701011	1712uu	714u2-	1M0-	dDP
HCNdbe	16-J2	4121S-7	41-4471	427u 7	4101404	1M46	dDP
t. odbe	11-J1	6014724	6u7u021	60 --11	60u2u-2	SM7	dDP
t. odbe	11-J2	062 1	uu2S1	1SS41u7	u --u	1M41	dDP
tlC.	-4J2	2426S	24u00	2-44S	24u-	2M70	dDP
tlC.	-6J2	47u67S	4461-6	4-76u2	4461-6	1M0	dDP
tlC.	-0J2	1S 20	1S -4	117	11S 7	2M7	dDP
KlhDTC.	u7J1	2u0	274	260	267	1SM77	dDP
Lpl o	2S6J1	u6-7	u60-	u-0S	u677	SM0-	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl RdNpaml e pas	S77LF: UMd

3l ll e pTpl	9 l PP	F3: 1	F3: 2	F3: 7	F3: 9 pl .	F3: y: &	5. dP
Lpl o	2S0J1	0041	0204	0-S2	0-S6	7M11	dDP
Lpl o	2SuJ1	74446	74-7-	7417-	74702	SM01	dDP
LdEdbe	6J1	24Su 2u	2427272	240SS0	2474SuS	1M71	dDP
9 l g. pPdbe	24J2	1S7416	1S7-60	1S-uu4	1S42u	1M77	dDP
9 l . gl . pPp	- - J2	144S	1-6S	1070	1-0	M4-	dDP
9 CNr op. be	4J1	10 -4	1u6uS	10u -	1u106	2M4S	dDP
9 CNr op. be	- J1	216-1	22220	22011	221 6	2M7	dDP
9 CNr op. be	6J1	24217	2-S4u	2-1 S	24u10	2M17	dDP
9 CNr op. be	0J1	12uu1	14441	17072	176u-	-M01	dDP
9 CNr op. be	uJ1	7-S0u	7-2u0	7- 22	7-42	1M24	dDP
mpCohe dbe	1-SJ1	17	17	17	17	SM3S	dDP
mpCohe dbe	1-SJ2	7	7	S	2	u6M0S	dDP
mdkpN	6SJ2	1440	167S	1667	1-uS	0M7u	dDP
3 ECPDECIbP	71J2	2Su	277	2Su	210	6M66	dDP
3 CTl PPdbe	7 J2	020SS	042SS	0-746	04Su2	1M0	dDP
y ECodbe	1S7J1	6uS2 24	6u-2014	6u260-S	6u20467	SM76	dDP
y ECodbe	1S7J2	71uu066	721467-	772uu 7	7244S u	2M7S	dDP
: dl . odbe	4-J1	47- - uu7	4-S62-1	470224u	4411461	1M10	dDP
: dl . odbe	4-J2	14u41u	14uu07	1-40S4	1-S66-	2M77	dDP
: pNp. dbe	u2J1	u20	u 0	u S	u02	4M41	dDP
: pNp. dbe	00J2	4S	77	10	7S	4SM3-	dDP
: pNp. dbe	0uJ2	1S	11	1S1	11S	uM22	dDP
: dNdC.	2uJ1	24-0u-	27002u	24S-40	2417-4	1M0	dDP
: dNpl	1S0J1	1S4uu	11-14	12S22	11741	6M1	dDP
: dNpl	1S J1	1S S-	1Su46	1S001	1Su41	SM02	dDP
: Codbe	27J2	2S0 06	212762	2S 707	2S S4	1M30	dDP
: TC. Tdbe	u6J1	72SS	7S2-	7S-S	7S 2	7M36	dDP
: TC. Tdbe	uuJ1	27S2u	22 S7	22-44	22u2-	1M1S	dDP
: bNbl	74J1	7S7u6	7S0-00	7S4 00	7S-404	SM02	dDP
Apl r dbe	1- J1	41 4-4	4S0727	414141	41767	SM36	dDP
Apl r dbe	1- J2	7 0-u77	4S10111	41u -27	4S6Su22	2M0	dDP
AEl NNdbe	2S7J1	70	0u0	0	S1	1M32	dDP
AEl NNdbe	2S-J1	274- -	22012	27-uS	2724	2M32	dDP
Ac	11uJ1	17-S	1Su7	12-S	122u	1SM0	dDP
AdT. dbe	40J1	60-2	6- 7	62-2	6-72	7M1	dDP
5 ll . dbe	27uJ1	727u4	72606	7710u	72046	1M27	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 2SB:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 2S	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a14sS s14	&l Tl Rdpamle pas	S77LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	007	1SSu4	1S410	1SS 1	7M1	dDP
YTpIr dbe	102J1	77	60	1SS	60	-SM3S	dDP
YTpIr dbe	102J2	2u	2u	44	77	2uM0	dDP
YTpIr dbe	106J1	17u7	170-	17-u	1702	SM7	dDP
YTpIr dbe	106J2	1S-u2	1S 72	1Su00	1S0 0	1M04	dDP
YTTdbe	u J1	122Su01	12-46S14	127u0710	127uS6u7	1M6	dDP
YTTdbe	u J2	172727	17S042u	17 6 1	1742-2	7M6	dDP
Zc d	66J2	261S	206S	2-uS	26-S	7M04	dDP
ZddC. dbe	SJ1	17	1-S 2	14066	1461	7M4	dDP
ZddC. dbe	1J1	7442	7426	7274	7760	7M4	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r:	S- 4q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	614N- 2	6Shh0J	611026	61210N	SM4S	dDw
qCTb nCE	12171	42Sh	4J- 4	44h-	4412	4NS1	dDw
qpwr Ccd	0J72	42h2	4Sh0	4211	42SS	2M-	dDw
Bspcmb	1- J71	40JS12	404- hS	40hhS0	4064- 0	SM0-	dDw
Bspcmb	1- 071	N2hS0J	N- SS6J	N46- 1-	N- J1J1	1M16	dDw
Br pEPmb	h71	2J62	2J60	24h4	2J41	1M62	dDw
Bcwb mTG	2Sh71	6N- 0JS6	606JN- 6	60ShN41	6001S61	SM1J	dDw
Bcwb mTG	2Sh72	- 1hhSS1	- 1h41J2	- - 126h6	- 2- J2N-	2NS0	dDw
Bpmb cCr	N171	0- 44	N21h	N061	N1SN	NNM2	dDw
5 sob cmb	1SN71	2J4	- 60	2S4	20J	- SM20	dDw
5 sob cmb	1S671	4- J1	44N4	4226	4- J4	2M10	dDw
5 sob cmb	11171	2JJ0	2- 2J	2406	24J-	4NMS	dDw
5 sPlcmb	4- 71	- 16- hh	- 2S2- 0	- 2J1S-	- 2SJ0h	1M16	dDw
5 sPlcmb	4471	J- hS- 2S	JJ- 4- 1N	J- 4S0- 6	J4210h1	1MMJ	dDw
5 spenC	1271	6- S- 0J0	60J0002	6NSN402	662- - - 4	4M2S	dDw
5 spenC	1272	NJ- 6J	N4Jh-	N41S0	N46NN	SM0J	dDw
5 GPnpcCr	- J71	h6h6S04	12NN6J14	1J- SNN- 6	126- S40J	22M2h	dDw
5 GPnpcCr	- J72	14SJ2S	1J2244	1JN1SN	1JS2h1	JM16	dDw
5 Gpmb cmb	J272	- 0- 4h	- 066S	- 6061	- 02J6	1M4-	dDw
5 nesPT	Jh72	4NS- 0	4h2NJ	4NSh4	4N402	1M4J	dDw
5 nDDr p	6- 72	1064S6	1006hN	102- Sh	10J401	1M0S	dDw
&EwDpnwcmb	1J671	60h6J	60h4h	0SN22	6Nh12	2M4S	dDw
&EwDpnwcmb	1J672	2NJ- 0	2NJN4	2NN1N	2N646	SM2	dDw
Fpecmb	16471	J- hJ2	J6NNS	J4NN1	JJ2- N	2M01	dDw
Fpecmb	16472	2- 1N0	22- 02	224S2	226J4	2MS4	dDw
HsonPCcmb	16S71	6S00-	6- hh6	616- J	621- J	2M6h	dDw
HsonPCcmb	16S72	2h- N6	2h- 06	2hJ6h	2h444	SM10	dDw
y nPb cmb	16J71	h6hJ122	h4N0hSN	h- 6N06-	hJ10264	1M04	dDw
y nPb cmb	16J72	416S2- 1	41- - h6J	4- 1- 012	42S26- 6	2M1	dDw
tCocmb	11J71	0S240JJ	6h6h10J	6h22NJJ	6h02262	SM0-	dDw
tCocmb	11J72	hhS6S1	h66JJS	1S26SJJ	hh44S2	- NS1	dDw
tpnC	J472	- 1- 220J	- 11- 1h-	- SJ2Sh2	- Shh1N0	1MJ	dDw
tpnC	J672	J6SNJSSS	JJJN0S14	JJ162621	JJ611J4J	SMM-	dDw
tpnC	J072	14216N-	14- 2602	14SS64-	141N- - -	1MJ	dDw
KpEDTnC	N- 71	- S2	- - J	- 20	- 22	JM2h	dDw
Lr so	2S671	40N40J	406420	4NNJJ-	4N11J2	1MJ	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tusb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP usb r:	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- hhNSS	4S1S- S	4S206-	4S11hN	SM10	dDw
Lr so	2SN71	1NhSh- -	1Nh- 0- J	1h124- N	1NhhS- J	SM02	dDw
LdTGmb	671	244h10S	2- h622S	2422J1-	24226- 4	1NSh	dDw
9 sgOr wcmb	2472	N1001S	NSh140	N1114-	N12660	SMJ	dDw
9 sOgsOr wr	JJ72	N4211-	N2h04h	N100N2	N2hNN1	1M40	dDw
9 nPEeor Omb	h471	264J1	20S44	20244	26h1-	1M-	dDw
9 nPEeor Omb	hJ71	J26N	JJh-	J026	JJ2h	4M20	dDw
9 nPEeor Omb	h671	hh12	hNhJ	1S101	hhh-	1M4	dDw
9 nPEeor Omb	h071	- - 60	- 606	- 442	- 4hJ	4M0S	dDw
9 nPEeor Omb	hN71	hS0N	hSS-	h2S-	hShJ	1M1	dDw
u r noEb omb	1JS71	1146N6	11J- JN	116- - -	11J4Jh	SM02	dDw
u r noEb omb	1JS72	- 62- 6	- 66JS	- 6620	- 6JS4	SM04	dDw
u dkr P	6S72	2J406	2J- 26	240hN	2J2SS	1M41	dDw
8 GhwDGhpmw	- 172	N- 6h	0J00	N2h4	NSNS	JM41	dDw
8 nTswwcmb	- h72	42h- N2	42JJS2	421h6h	42J61N	SMM0	dDw
. Ghocmb	1S- 71	6h0Nhh4	6N- 2- 40	6N- 12J1	6NNSN64	1M24	dDw
. Ghocmb	1S- 72	- 1J10N-	- 16h42J	- - - N2SJ	- 21hNS4	- M2S	dDw
I dsCocmb	4J71	46JSSh-	4Jh4JJ0	44N4hS4	4J06J1N	1MM4	dDw
I dsCocmb	4J72	1JS6N1	1JS1J6	1J61hN	1J2- 4J	2M2S	dDw
I r P Ccmb	N271	244	1NJ	1Nh	2S6	1JM10	dDw
I r P Ccmb	0072	1JS	120	1J-	14-	1SM14	dDw
I r P Ccmb	0N72	11-	1S-	112	1Sh	JMS4	dDw
I dPdnC	2N71	14J666JN	140JN- 1h	14N2S6N2	1401J22S	SM1S	dDw
I dPr p	1S071	2N10	20Jh	20Sh	2061	1M16	dDw
I dPr p	1Sh71	2410	2- N4	20- 4	2J11	0M6h	dDw
I nocmb	2- 72	6N1- 4	6N646	6NS6N	6N2N-	SM46	dDw
I TpnCTcmb	N671	2h- SJ4	2NN66S	2NNN66	2hS1h-	SMMJ	dDw
I TpnCTcmb	NN71	261Jh26	2624hSS	26J2S10	26- Sh4N	SM01	dDw
I mPmp	- 471	- - 21h6	- 2014-	- 2S0- J	- 266h1	1M06	dDw
Ar pecmb	1Jh71	1SSNSNJ4	hN- 04NS	h020- hN	hNN1h1S	1MM-	dDw
Ar pecmb	1Jh72	4S- 102N	4Sh4J06	42NhhSh	41- N0- N	- M2J	dDw
AGsPbmb	2S- 71	24Sh	2- 60	2- - 4	2- 0S	1Mlh	dDw
AGsPbmb	2SJ71	J- S1	J6S1	JJ4-	J4N2	2M1S	dDw
AdC	11N71	N6hJ	N6J-	h14J	NN- 1	- MSh	dDw
AdSCcmb	4071	hNJ6-	1SSN21	1S1NJ2	1SS412	1M60	dDw
RpsCcmb	2- N71	0016S	0N1N-	0h020	0N- J6	1M6J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S1	tOwTpmb Or Tu sb r :	8 N
5 Pr CTI sb DP t&:	9 y SUS2	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:12:1J	&sTsUdP u sb r :	S- 4q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0SSNS	6h10-	6N0- 1	6h- 2N	SM1h	dDw
YTTr pe omb	10271	1JN- J	1JNJ2	1616S	1Jh4h	1M1J	dDw
YTTr pe omb	10272	046h	0014	00SN	06- S	1MM-	dDw
YTTr pe omb	10671	11014	12SS6	12214	11h0N	2M1S	dDw
YTTr pe omb	10672	16S6S	1J426	161h4	1JNh-	2MIN	dDw
YTTpomb	Nh71	1- S6- N16	1- 2- 2- 4N	1- S1J2- 1	1- 1S- 0hN	SMM0	dDw
YTTpomb	Nh72	1- hN- 04	144h106	1JS1J21	144h6hS	- M6	dDw
ZdCd	6672	h1104	hS0J2	NNNh6	hS204	1M4	dDw
ZqpdnComb	hS71	6- - S-	6- N- N	6J4h6	6421-	1M0N	dDw
ZqpdnComb	h171	141hh	141h1	1- h24	141SJ	1M1	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6- S- 1N	6- - 40h	61h020	620N41	1M1J	dDw
qCTb nCE	12171	4626	4Jh-	4- N4	4J- 4	2NMh	dDw
qpwr Ccd	0J72	42SN	4410	42- S	42NJ	2M0N	dDw
Bspcmb	1- J71	4N2J4S	400- h4	40h6JS	40hN61	SM14	dDw
Bspcmb	1- 071	N41- J6	N4h1h0	NJh0hS	NJS114	1N8h	dDw
Br pEPmb	h71	2JS6	2Jh2	2J22	2J4S	1NMS	dDw
Bcwb mTG	2Sh71	6N0h2J-	6hNh446	6NJ1ShS	6hS6Jh6	1N86	dDw
Bcwb mTG	2Sh72	- 46- 11-	- SJ02hJ	- - 20h- -	- 2N20NS	6M2h	dDw
Bpmb cCr	N171	04NJ	NSN6	NJ1h	NS- S	6M40	dDw
5 sob cmb	1SN71	246	2JN	2J4	2J-	2M12	dDw
5 sob cmb	1S671	4J26	4NJh	42Jh	4J4N	6M01	dDw
5 sob cmb	11171	2422	24h0	2- N2	24- 4	2M41	dDw
5 sPlcmb	4- 71	- 2- N0J	- 24062	- 26061	- 2J1- -	SM4J	dDw
5 sPlcmb	4471	JJ426- N	J- 0N1h1	JJSSh24	J40- h1N	1M16	dDw
5 spenC	1271	66- SNS4	6h0NNh4	0S22hN2	6N00J6S	- M12	dDw
5 spenC	1272	NhS0N	N000h	N06J4	NN10S	SMNh	dDw
5 GPmpcCr	- J71	10SJN04-	2S0- 604N	220h6N0J	2S1h04JJ	14Mh	dDw
5 GPmpcCr	- J72	1hS- 64	1h4- 60	2SSh0h	1hJ2- 0	2M0J	dDw
5 Gpmb cmb	J272	- N44N	- 0h0S	- 6hJ4	- 00h1	2N82	dDw
5 nesPT	Jh72	JSh41	J141h	4h- Jh	JSJ0-	2M1-	dDw
5 nDDr p	6- 72	1006hJ	1NSS01	10611-	100hJh	1M12	dDw
&EwDpnwcmb	1J671	6N2Sh	6h40-	6N242	6N641	1N8J	dDw
&EwDpnwcmb	1J672	- S1N1	- SJh2	2hJh-	- S122	1M00	dDw
Fpecmb	16471	J40- h	J4- 4J	J64N0	JJ1hS	2N80	dDw
Fpecmb	16472	2- NNJ	2- J0N	220- 6	2- 4SS	2M14	dDw
HsonPCcmb	16S71	Jh020	62h16	61h62	61J- J	2M06	dDw
HsonPCcmb	16S72	- S22N	- S- 02	2h4Jh	- SS2S	1M0-	dDw
y nPb cmb	16J71	h0- 2JN1	h0N12S1	hh- J062	hN16J1J	1N8N	dDw
y nPb cmb	16J72	4- - - NN-	- NhS6J6	4- SJ4- 0	41066Jh	JM14	dDw
tCocmb	11J71	0- 16- 0N	02S- 6- -	01NNS60	02- 6S26	SM10	dDw
tCocmb	11J72	1S2N- S4	h2641N	1S16J00	hhS4- -	JM0-	dDw
tpnC	J472	- 12- NJJ	- 166N60	- 1Sh106	- 1- - 2hh	SM16	dDw
tpnC	J672	J0026- 26	J606NJ0-	J6122S- 2	J6N02- 11	1M12	dDw
tpnC	J072	14h66h2	1404004	14- - 4J0	146N- S0	2M1h	dDw
KpEDTnC	N- 71	- - h	- 21	- 42	- - 4	- Mh	dDw
Lr so	2S671	4N0604	4Nh004	4h1h4-	4Nh0h0	SM44	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	4S0J2J	41Sh- 6	411S1N	4ShN26	SM4h	dDw
Lr so	2SN71	1h2NJ01	1h- S266	1h22J12	1h20116	SM21	dDw
LdTGmb	671	2J2hh- J	2JNSh6J	2J66SJ6	2JJNhN6	1N8-	dDw
9 sgOr wcmb	2472	N4SS6J	N4SS- h	N14J01	N- 1JJN	1M00	dDw
9 sOgsOr wr	JJ72	N4NJJ1	N46N4h	N- 0NhJ	N444- 2	SM6N	dDw
9 nPEeor Omb	h471	26h6S	20SS2	206N6	20216	1M1S	dDw
9 nPEeor Omb	hJ71	646S	Jh1S	Jh06	611J	4M11	dDw
9 nPEeor Omb	h671	1S1S4	1S246	1SJ01	1S- S0	2M12	dDw
9 nPEeor Omb	h071	- NSh	- 0S1	- 460	- 6Jh	4M00	dDw
9 nPEeor Omb	hN71	h4J-	h62h	hJ4J	hJ42	SM12	dDw
u r noEb omb	1JS71	11N2Jh	11N2J0	11N4hh	11N- - N	SM12	dDw
u r noEb omb	1JS72	- 0J- -	- 0N- 4	- 0242	- 0J- 6	SM0h	dDw
u dkr P	6S72	2Jh04	2641N	2J600	26S2-	1M4-	dDw
8 GhwDGhpmw	- 172	N444	N- N6	0h61	N264	- M1h	dDw
8 nTswwcmb	- h72	4- 4201	4- 06S4	424SS-	4- 1hJh	1M64	dDw
. Ghocmb	1S- 71	0112204	02- 0406	0- JN60-	02- 6141	1M0S	dDw
. Ghocmb	1S- 72	- - 0J- N1	- S4J1- N	- - hS- N1	- 20S- SS	JM10	dDw
I dsCocmb	4J71	40442h4	40S0- N2	40h6J4J	404h4S0	SM14	dDw
I dsCocmb	4J72	1J0- 40	142N- -	1J4J6h	1J1JN-	JN8N	dDw
I r P Comb	N271	1N0	2SJ	221	2SJ	NM2J	dDw
I r P Comb	0072	120	1JS	140	141	NM14	dDw
I r P Comb	0N72	h6	114	h4	1S1	1SM10	dDw
I dPdnC	2N71	140hNh1-	1JS- N600	1464- 24S	14N26h4-	1M4	dDw
I dPr p	1S071	2N10	20Sh	2NSS	200J	2M1S	dDw
I dPr p	1Sh71	2NN4	202J	2NN4	2N- 1	- M4-	dDw
I nocmb	2- 72	6hJS0	6h060	6NS2J	6h1SS	1M6	dDw
I TpnCTcmb	N671	2h4J- J	2h2JJ4	2h4h16	2h4SS2	SM4-	dDw
I TpnCTcmb	NN71	26N0N61	26N464S	26h66- N	26Nh01-	SM4-	dDw
I mPmp	- 471	- 2NSNh	- 22600	- 21NhJ	- 2422S	1N84	dDw
Ar pecmb	1Jh71	hN001- J	1S4ShJJh	hN- NS24	1SS41J0-	- M1N	dDw
Ar pecmb	1Jh72	42hN260	- N0- h6h	4240N46	414SS20	JN0S	dDw
AGsPbmb	2S- 71	2J2J	21N4	202J	240N	11N86	dDw
AGsPbmb	2SJ71	Jh00	JN4-	62- J	6S1N	- M1	dDw
AdC	11N71	h12N	hS- 0	hSS-	hSJ6	SM02	dDw
AdSCcmb	4071	hh6- N	1S1h- 0	1S1hJ4	1S1106	1M2	dDw
RpsCcmb	2- N71	004S-	0h0N4	NS2S-	0h1- S	1M11	dDw

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S2	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS2&	&dPnTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 14:1J:14	&sTsUdP usb r:	S- Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0S4N-	01S0J	01S4J	0SN6N	SM40	dDw
YTTr peomb	10271	16420	1JN1N	16620	162h1	2Mlh	dDw
YTTr peomb	10272	0J6h	NSSN	0J6-	001-	- M1	dDw
YTTr peomb	10671	11440	11N14	116Nh	116JS	1M0S	dDw
YTTr peomb	10672	16NJS	1Jh1S	16- hh	16- N6	2MM0	dDw
YTTpomb	Nh71	1- 0JNN66	141- 6441	1- N01S1h	1- h221SN	1Mlh	dDw
YTTpomb	Nh72	1J20- JS	1- 2SJ- 4	1J- 40h2	146SNh2	NM2	dDw
ZdCd	6672	h20NN	hShh0	hShS-	h1J62	1M16	dDw
ZqpdnComb	hS71	6- 211	6J- 2h	6Jh- h	64N26	2M21	dDw
ZqpdnComb	h171	14hJN	14NJN	1J142	14hN6	SM16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Mswww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23O2	1- 1J24	1- - 239	1- - 714	1- 2J32	O.69	cpw
Antimony	12101	9- -	1O27	J37	947	J.O1	cpw
Arwenic	37O2	92J	J76	J31	JJ7	4.29	cpw
Bsrium	1- 701	96O91	992- 9	9J763	93966	1.69	cpw
Bsrium	1- 301	131- 1-	133112	13JO4J	137491	2.OJ	cpw
BeryRium	901	76O	71O	61O	76O	J.9-	cpw
Biwmuth	2O901	69- 17- 7	3O7JJ29	6336- 31	6922247	2.O4	cpw
Biwmuth	2O9O2	- 23O19J	- 27446J	- O92244	- 2O76- 3	- .O3	cpw
Bromine	J101	74O1	719-	4J1J	71- 3	7.36	cpw
Csdmium	1OJ01	6-	46	7O	7-	16.44	cpw
Csdmium	1O601	- J42	4142	- 336	- 92O	4.9J	cpw
Csdmium	11101	J- 2	92J	922	J94	6.OO	cpw
CsRium	4- 01	631JJ	6J- 31	6J212	63924	O.94	cpw
CsRium	4401	1122J49	11- 7391	1144J9-	11- 4711	O.9J	cpw
Csrbon	1201	- 196J12	- 297J77	- 263239	- 27- - 16	1.73	cpw
Csrbon	12O2	4O177	412- 4	41127	4OJ- J	1.47	cpw
ChRorine	- 701	J1- 22J3	J269217	J4- O7O1	J233- - 4	1.JO	cpw
ChRorine	- 7O2	6172-	61- 3-	61131	61- 76	O.29	cpw
Chromium	72O2	J946	J39-	J6- 9	J39-	1.34	cpw
CobsRR	79O2	1O771	1O714	1O891	1O619	1.42	cpw
Copper	6- O2	- 367-	- JO3J	- 33- -	- 3J21	O.6O	cpw
Dywprowium	1760l	14266	149OO	14191	1447-	2.3O	cpw
Dywprowium	176O2	6O37	6O71	6- 42	6176	2.62	cpw
Erbium	1640l	1OJ31	117O7	11- 43	11241	2.9-	cpw
Erbium	164O2	4964	4J11	7O44	494O	2.4O	cpw
GsdoRRnium	16O01	1- 1J2	129O3	1- 1J2	1- O9O	1.21	cpw
GsdoRRnium	16O02	66O7	62- 2	632J	6722	- .93	cpw
HoRRnium	1670l	996- 3O3	9911O13	9J- 1O69	99O19- 1	O.63	cpw
HoRRnium	167O2	424J343	414J446	4O13- 16	41- J13O	2.JO	cpw
Indium	1170l	3- 79- - O	31JO227	31O321J	3217791	1.JO	cpw
Indium	117O2	1O1O9- 3	1OO- 4OJ	9771- 9	9J9J2J	- .O6	cpw
Iron	74O2	62- 6- J	612472	62762J	62O73-	1.14	cpw
Iron	76O2	119379- 3	11964J1J	11J9- 936	1194491O	O.- 3	cpw
Iron	73O2	291127	2J2311	2J3J11	2J3216	1.4J	cpw
Krypton	J- 01	269	263	2J9	237	4.- 4	cpw
Lesd	2O601	9912O	1O779-	1O43J3	1O- 163	- .42	cpw

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LB Number :	LB1264O3	5 perstor :	aswl sP
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CRent Ssmpre ID :	MHOFO2L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFiRe Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	J2JO3	J6- O-	J63- 9	J72J-	2.7-	cpw
Lesd	2OJ01	- 9O7J4	41O4J7	4O7616	4O222J	2.7J	cpw
Lithium	601	27J37O3	261J2J6	274J11O	27J46- 7	1.- 6	cpw
Msgnewium	24O2	13237O	13- 277	13JO46	1346J4	1.63	cpw
Msngsnewe	77O2	13979J	13J47J	133- 1O	13J476	O.64	cpw
MoRybdenum	9401	7926	7JO1	73O1	7J1O	1.94	cpw
MoRybdenum	9701	1163	1- - -	1227	1242	6.J1	cpw
MoRybdenum	9601	22OO	2OOO	21- 4	2111	4.J2	cpw
MoRybdenum	9301	JOO	97O	J42	J64	J.96	cpw
MoRybdenum	9J01	2O37	2O42	2163	2O97	- .O9	cpw
Neodymium	17O01	24O49	24J73	24J2-	24736	1.J6	cpw
Neodymium	17O02	3392	3946	37O2	3343	2.91	cpw
NickeP	6O02	72JJ	77OJ	7721	74- 9	2.41	cpw
8howphoruw	- 102	2OOO	19OO	21- 4	2O11	7.J2	cpw
8otswwium	- 902	1O1J41	9664J	1O1477	999J1	2.J9	cpw
Rhodium	1O- 01	3- J3- 36	3166J- 9	3174O- 3	32- 6OJ4	1.J1	cpw
Rhodium	1O- 02	- 2962J6	- - O3- 4J	- 1O26- 7	- 2- 742-	- .76	cpw
Scsndium	4701	4971J27	4643113	43O4112	43636J7	- .4O	cpw
Scsndium	4702	171971	17- O96	1446O4	149JJ4	- .O3	cpw
SeRenium	J201	- J	2J	27	- O	22.O7	cpw
SeRenium	3302	13	23	2O	21	24.12	cpw
SeRenium	3JO2	29	- 9	47	- J	21.46	cpw
SiRcon	2J01	- 27OJ47	- 1J939O	- 27- 731	- 2- 14O2	1.12	cpw
SiRver	1O301	77J	6J-	613	619	1O.1O	cpw
SiRver	1O901	627	77J	47J	743	17.- -	cpw
Sodium	2- 02	- 3- - 2	- 792J	- 37O3	- 6922	2.- 4	cpw
Strontium	J601	62491	62724	61993	62- - 3	O.43	cpw
Strontium	JJ01	724919	7- 7961	719319	726J66	1.73	cpw
SuRfur	- 401	29OO3O	292J67	2J62J3	2J9341	1.14	cpw
Terbium	17901	1O- 7699-	1O13322J	1OO3O791	1O2O16O4	1.42	cpw
Terbium	17902	41244J7	41O2J61	- 9J1674	4O69663	1.J9	cpw
ThsRRum	2O- 01	1O42	1OOO	9OO	9J1	3.42	cpw
ThsRRum	2O701	2427	2237	2413	2- 3-	- .77	cpw
Tin	11J01	2337	2363	2J63	2JO-	1.9J	cpw
Titsnium	4301	21713	216OO	22471	21J76	2.- 3	cpw
Ursnium	2- J01	17633	16169	1766O	17J- 7	1.J-	cpw

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LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4460O1LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOFO2L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 14:1J:11	DstsFire Nsme :	O- 6AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	71O2	14394	143- 1	1494J	14J24	O.37	cpw
Ytterbium	13201	- O92	- 4- 4	- 2J4	- 23O	7.24	cpw
Ytterbium	13202	137O	1997	17J-	1336	11.64	cpw
Ytterbium	13601	- 4- 4	- 763	- 379	- 7J3	4.76	cpw
Ytterbium	13602	1132J	12OOO	1147O	11326	2.- 7	cpw
Yttrium	J901	1- 411424	1- O61694	12JJO417	1- 113J44	2.O6	cpw
Yttrium	J902	1- 46917	14O93J9	12J73O3	1- 4343O	4.6O	cpw
Zinc	6602	19- - O	1J9O9	1977O	1926-	1.69	cpw
Zirconium	9O01	1- 2O3	1- 4O3	1- 6O3	1- 4O3	1.49	cpw
Zirconium	9101	2342	- 137	- - 13	- O3J	9.3-	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
c lumAnAum	2072	68264S	6024Sy	606018	6002y4	SU06	ql s
c n&Amonh	12171	1S818y	11SS6S	1S60E1	1S8- 4y	1Uy1	ql s
c rsenAq	0y72	y62-	y482	yy- 6	yy40	1U28	ql s
BarAum	1- y71	EE6S66	1S- 4S24	EE22y-	1SS0448	2U2E	ql s
BarAum	1- 071	18y4- 01	1804SSy	186- 82-	1864S66	SUy-	ql s
BerhlIAum	E71	106yy	1812S	10E- y	10ES-	1U 1	ql s
BAsmu&G	2SE71	6882604	yy6yyS4	68E11y6	6446444	11U8-	ql s
BAsmu&G	2SE72	- - 6y641	- - 14214	- 268266	- - 16S4S	1U40	ql s
BromAne	8171	016S	0E11	8SS-	06E1	6US1	ql s
RaOmAum	1S871	116-	1142	1101	11y8	1U S	ql s
RaOmAum	1S671	y818	4884	y0y1	y48y	EUyS	ql s
RaOmAum	11171	1y848	16y2y	1y86y	16S0E	2U4S	ql s
RalqAum	4- 71	- 42S02	- y1842	- 4626-	- 46026	1U41	ql s
RalqAum	4471	y88S4- 1	yE1012y	y0- 8- 22	y84y2E2	1U62	ql s
Rarbon	1271	yEy40- 1	618y000	61- 1- 0y	6SES628	1UE8	ql s
Rarbon	1272	06084	084SS	001Ey	0046S	1US8	ql s
RGlorAne	- y71	101620y6	216- E844	24S160S0	2SE- E06E	16U62	ql s
RGlorAne	- y72	2SSESy	2SE- y6	21- 0S1	2S0E80	- U1-	ql s
RGromAum	y272	1S0y04	1S066y	1S800S	1S8SS-	SU62	ql s
Robal&	yE72	- 6411E	- 62S66	- 662EE	- 64161	SUy8	ql s
RoI I er	6- 72	- 1- 611	- SES02	- 1188S	- 11y21	SU04	ql s
t hsI rosAum	1y671	01y06	04yE1	0- SyE	0- S0y	2US6	ql s
t hsI rosAum	1y672	- 1- 00	- S6y8	- S261	- S06y	1U84	ql s
. rbAum	16471	y00yE	yE20y	y6864	y0E66	2U1S	ql s
. rbAum	16472	2462-	2426E	24- EE	244- S	SU0-	ql s
HaOolAnAum	16S71	66104	66104	64- 22	6yyy0	1U6-	ql s
HaOolAnAum	16S72	- 12E4	- 124S	- SEE-	- 110y	SUy1	ql s
9 olmAum	16y71	EE26646	0811- 8y	E8281y0	E18802E	12UEE	ql s
9 olmAum	16y72	4y2yE80	4- 44SE0	4- 1y- E-	4- Ey1yE	2U6S	ql s
DnOAum	11y71	0- - E4yE	y6yE622	01y1S66	6016016	1- U0S	ql s
DnOAum	11y72	1S4- 204	1S21644	1S18S4S	1S206y-	1U -	ql s
Don	y472	- 284yyy	- - 2100-	- 26S864	- 28ES64	SUE-	ql s
Don	y672	y8801211	6S120808	yE- EEy6y	yE466218	1US6	ql s
Don	y072	1ySS62E	1y2S- y2	1y- 6S41	1y1ESS0	1U10	ql s
Krhl &on	8- 71	- 41	- 6S	- 21	- 41	yU6E	ql s
LeaO	2S671	y- 6- 0S	y40y2E	y- yyy6	y- E818	1U24	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab paml le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAen&paml le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	440S- 6	4y8411	44E8E6	4y1081	1U1	ql s
LeaO	2S871	211S1y2	214yEEy	21SS4- 8	2118862	1U1-	ql s
LA&GAum	671	26- ySy2	21104- 8	26y- 6E0	246802E	12U-	ql s
5 agnesAum	2472	868Ey0	80yy- 8	8y1S48	86y181	1U46	ql s
5 anganese	yy72	E60482	Ey4680	E46401	Ey621-	1U11	ql s
5 olhbOenum	E471	26668	20100	20080	20211	2US6	ql s
5 olhbOenum	Ey71	y818	61S2	y618	y846	4U16	ql s
5 olhbOenum	E671	1S412	EEE6	E8Ey	1S1S1	2U01	ql s
5 olhbOenum	E071	- - y1	- yyE	- - SS	- 4S-	4US-	ql s
5 olhbOenum	E871	E10S	E12S	8608	8E8E	- US1	ql s
NeoChmAum	1yS71	1241yy	126E0S	1212- S	12411E	2U1	ql s
NeoChmAum	1yS72	- 8- 62	- 0- 8E	- 04EE	- 00yS	1U41	ql s
NAqkel	6S72	116S08	11y4y8	1144SE	11y- 1y	SU0-	ql s
PGosl Gorus	- 172	802S	86S-	80y-	86E2	SUE1	ql s
Po&assAum	- E72	4y6128	4y- 0E0	4y40- y	4y4880	SU26	ql s
CGoOAum	1S- 71	01- 4- y4	y662006	6E00S00	6yE14S2	12U26	ql s
CGoOAum	1S- 72	- 44ES8y	- - 2EE61	- - 41006	- - 0- 6S0	1UEy	ql s
pqanOAum	4y71	4ES0882	- 0- 142-	4011E02	44yS426	14U16	ql s
pqanOAum	4y72	16S1E2	1yE- S6	1y4S80	1y0862	2USE	ql s
pelenAum	8271	226E	2- 2y	22y6	228-	1U6S	ql s
pelenAum	0072	2S0	10-	24S	2S0	16U1-	ql s
pelenAum	0872	- 1-	- - S	- - S	- 24	- US-	ql s
pAAqon	2871	16806E- S	162Ey8yy	16- 2112S	164E0E68	1UEE	ql s
pAver	1S071	64ES-	602EE	661SE	661S4	1U81	ql s
pAver	1SE71	61y- S	6240y	6104S	61E1y	SU8S	ql s
poOAum	2- 72	81662	81- 20	8S4- E	81142	SU08	ql s
p&ona&um	8671	- SSESE	- 2S04-	- S0E84	- SE80E	- U24	ql s
p&ona&um	8871	20- 4y86	28ES6S1	28- S10S	28184y2	2U0E	ql s
pulfur	- 471	- 222SS	- 2y88S	- 1E8Sy	- 2262E	SUEy	ql s
i erbAum	1yE71	1S2- 10- 4	0816S- 6	1S2E1S6-	E446208	14UEy	ql s
i erbAum	1yE72	42S00- y	4212yES	42800yy	42- 6S20	1US6	ql s
i GallAum	2S- 71	y8y42	yE822	y80SS	yES21	1U18	ql s
i GallAum	2Sy71	14S1E6	1418- 1	141- 60	1411- 1	SU6S	ql s
i An	11871	1S0S4	11- E0	1SE6-	11S21	- U10	ql s
i A&anAum	4071	1SS0- 1	1SSSy0	E82y-	EE68S	1U2E	ql s
MranAum	2- 871	82- S8	8- 416	8224E	826y8	SU8S	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S-	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SFS2p	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:21:1-	t a&aFAe Name :	S- 0c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	2S- - 44	2S- 0yE	2S20E2	2S- 2E8	SU24	ql s
Y&erbAum	10271	10262	102Ey	10E88	10y1y	2U4	ql s
Y&erbAum	10272	84y-	84y8	0840	82y-	4U26	ql s
Y&erbAum	10671	12848	1241y	12y0-	12612	1U04	ql s
Y&erbAum	10672	168Sy	168Sy	16S- 2	16y48	2U0S	ql s
Y&&Aum	8E71	1- EE04E6	11SES2- E	1- 6E- 111	12E26E4E	12U6	ql s
Y&&Aum	8E72	1yy- 28-	1y1- 4S8	140E0E8	1y1y4E6	2U4-	ql s
ZAnq	6672	12E2y1	1204EE	1262y0	12066E	1U18	ql s
ZAqonAum	ES71	6- E- 1	60y48	662y8	6yE12	2U08	ql s
ZAqonAum	E171	14y0y	14042	14y2y	14614	SU08	ql s

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	2072	06N6Sh	0h0JS4	06Nhh0	06hS22	SMM1	dDw
qCTb nCE	12171	2hN4	26N4	2610	262N	1M4	dDw
qpwr Ocd	0h72	hSh1	4JJ0	4NJ-	4JN1	1M01	dDw
Bspcmb	1- h71	64- SJh	6- SS- -	624N62	6- 266-	1M4J	dDw
Bspcmb	1- 071	11hSJ10	111J- SS	111N0S-	112J64S	1M0-	dDw
Br pEPmb	J71	2Jh1	2J02	2J- 1	2Jh2	SM0S	dDw
Bcwb mTG	2SJ71	hJS114-	6Jh24N0	6N6N2hS	6h0- J6S	NMMU	dDw
Bcwb mTG	2SJ72	- - 1h- h0	- 0- N422	- - 6SNh1	- 401h4-	6M0J	dDw
Bpmb cOr	N171	0- J4	061J	NS2N	06NS	4M1N	dDw
5 sob cmb	1SN71	101	1N-	21-	1NJ	11M2	dDw
5 sob cmb	1S671	- hSJ	44N4	41N4	4ShJ	12M1	dDw
5 sob cmb	11171	2- S2	21- 0	2S0N	2102	hMh	dDw
5 sPlcmb	4- 71	- 40J- -	- 4622N	- 42NN0	- 4h6N-	SM04	dDw
5 sPlcmb	4471	hJ220NS	hNN412h	h04- 660	hNhS1J1	1M61	dDw
5 spenC	1271	hS00J62	h26- 1Jh	h- 0S20h	h2- 0144	2MM2	dDw
5 spenC	1272	6h- 12	64442	66J0S	6hh0h	1M6	dDw
5 GPmpcOr	- h71	21S0N- h6	2h26JhN1	202J- h06	24h40101	12M1	dDw
5 GPmpcOr	- h72	2102NN	226S21	22NNSh	224S- N	2M6N	dDw
5 Gpmb cmb	h272	h20- 0	h2N44	h21- 1	h2h01	SM0-	dDw
5 nesPT	hJ72	01260	0S1S2	02SJh	011hh	1M41	dDw
5 nDDr p	6- 72	164h1h	1644NN	166- N0	16h1- S	SM06	dDw
&EwDpnwcmb	1h671	0J6NS	0NJ24	00N- 6	0NN14	1M1N	dDw
&EwDpnwcmb	1h672	- - 6SJ	- - 4h2	- - JJS	- - 6N4	SMM2	dDw
Fpecmb	16471	6Nh61	0S16J	6061h	6N0N1	1MMN	dDw
Fpecmb	16472	20042	20- 6N	20612	20h04	SM0J	dDw
HsonPCcmb	16S71	02h2-	0- h62	0- S42	0- S42	SM01	dDw
HsonPCcmb	16S72	- 4JNJ	- 46N2	- 446N	- 401-	SM06	dDw
y nPb cmb	16h71	Nh6N0J-	J00h64N	J04S1J6	J- 61h46	0M4	dDw
y nPb cmb	16h72	4- 262J1	4NJ160S	4- 10SJ2	4h116N4	0M2J	dDw
tCocmb	11h71	6S6J4S-	0S012S0	02S422h	60N1612	JM1h	dDw
tCocmb	11h72	1S1- S1h	1124N02	1S2Nhh0	1Shh4N1	hM04	dDw
tpnC	h472	4S024JN	4SN211J	4Sh6SJS	4S0S2- 6	SM12	dDw
tpnC	h672	02N00S1-	0- 6N1S41	0- 21N400	0- 2hNN4-	SM1h	dDw
tpnC	h072	1J2SJSJ	1Nh1026	1NN06JJ	1NN600N	1MM-	dDw
KpEDTnC	N- 71	- hS	- JS	- 4h	- 62	6MM2	dDw
Lr so	2S671	hS6S- -	hS0S46	4JJ6Nh	hS42hh	SM0J	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP usb r:	S- Nq. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	411226	41NJ4J	41400J	414JNh	SMl-	dDw
Lr so	2SN71	1JhNNN6	1JN- h- -	1Jh100N	1J640- 2	SMMh	dDw
LdTGmb	671	2- S- J0N	2h26211	262J0h2	24N6640	6M0J	dDw
9 sgOr wcmb	2472	JhJ1N1	J44N2-	J64S0N	Jh6S20	1M8h	dDw
9 sOgsOr wr	hh72	J4- 2- S	Jh2N2h	J2J2JJ	J410Nh	1M26	dDw
9 nPEeor Omb	J471	21J1N	2S44J	2106N	21- 0N	- M0N	dDw
9 nPEeor Omb	Jh71	62h2	h04-	hJ26	hJ04	4M1	dDw
9 nPEeor Omb	J671	J60J	J- - 0	J6h4	Jhh6	1MJ	dDw
9 nPEeor Omb	J071	41S1	- - 42	- 642	- 6Jh	1SM4	dDw
9 nPEeor Omb	JN71	JN2J	J40N	Jh0S	J626	1MMJ	dDw
ur noEb omb	1hS71	1- - 02N	1- 1- J1	1- 10SS	1- 220-	SM6	dDw
ur noEb omb	1hS72	4SSJ0	4SS16	4S0SJ	4S204	SM4	dDw
ucdkr P	6S72	- J1N4	- N0- 6	- NNNS	- NJ- -	SMMJ	dDw
8 GhwDGhpmw	- 172	0J11	00- 6	0NN6	0N44	1M21	dDw
8 nTswwcmb	- J72	- - 1J- 4	- 2NNh4	- - 14NS	- - S0h6	SMMS	dDw
. Ghocmb	1S- 71	6Sh2J- S	6NhhNN1	01- - h1h	66NS00h	NM4S	dDw
. Ghocmb	1S- 72	- - N10h2	- 66N- 2h	- 41- JSh	- 4N0JJ4	4MMS	dDw
I dsCocmb	4h71	4SN- S4N	40- NS- 4	400020h	4h- 20N6	NM6S	dDw
I dsCocmb	4h72	1h4J1J	10- 241	16S22N	1620J6	hM0J	dDw
I r PCcmb	N271	264	10h	212	210	2SMM2	dDw
I r PCcmb	0072	14-	16-	J-	1- -	20M8h	dDw
I r PCcmb	0N72	1- 4	1- 1	114	126	NMM4	dDw
I dPdnC	2N71	10602066	106NJ4N-	10N64h00	1004220h	SM0S	dDw
I dPr p	1S071	- S42	- 4h1	- ShS	- 1N1	0M4	dDw
I dPr p	1SJ71	- S60	2N2h	- 1N4	- S2h	6M84	dDw
I nocmb	2- 72	1144Sh	1121- N	114SN6	11- h4-	1M8N	dDw
I TpnCTcmb	N671	- - 6464	- - 1S41	- - - ShN	- - - h21	SMM2	dDw
I TpnCTcmb	NN71	2Jh- 06S	- S12J0h	2J0J006	2JN210S	1M8S	dDw
I mPmp	- 471	2J1060	2J4- 20	2J4J- 1	2J- 60h	SMM0	dDw
Ar pecmb	1hJ71	Nh- 20hN	J01SNJ0	JJ6h- - 2	J4S2JJh	NM1-	dDw
Ar pecmb	1hJ72	410Nh- N	461h00-	426N- h0	4- h422-	hMMS	dDw
AGsPbmb	2S- 71	- SSS	2642	- SSJ	2NN4	0M26	dDw
AGsPbmb	2Sh71	6J00	0S44	02- 6	0SNh	1MMJ	dDw
AdC	11N71	Nh- 6	Nh0S	Nh0S	NhhN	SM22	dDw
AdSCcmb	4071	0S6hS	0SJh1	6J0h-	0S4h1	SMMN	dDw
RpsCcmb	2- N71	JJ2N0	1S10S6	1S11h2	1SS01h	1M26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 4467S4	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SUS-	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:24:SJ	&sTsUdP u sb r:	S- Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h172	NJ- 1S	JSSS1	NJ0S-	NJ601	SMJ	dDw
YTTr pe omb	10271	21ShJ	21h- h	21S60	2122S	1M2N	dDw
YTTr pe omb	10272	1S6- 2	1SS4-	JJ26	1S2SS	- M01	dDw
YTTr pe omb	10671	14N2h	14J42	1hSS1	14J2-	SM0S	dDw
YTTr pe omb	10672	1020-	1JS2S	106S1	10J64	hM10	dDw
YTTpomb	NJ71	121- 2S26	1- N42640	1- 0104- 0	1- 2- S0S4	0M21	dDw
YTTpomb	NJ72	1h1N6J0	16S- 0Nh	1hhN644	1h6S- 06	2M0-	dDw
ZdCd	6672	N44NS	N2J44	N24S1	N- 20h	1MS	dDw
ZqpdnComb	JS71	4JJJJ	hS1N-	4J6Sh	4JJ2J	SMJ	dDw
ZqpdnComb	J171	11hJ0	11S1-	1S61-	11S04	4M40	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4467S	tCl Tpmb Cr T.uwb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SMS0	&8mTmC:MwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14.J20.JSa	&wTwMv8 :uwb r :J	S- . qF UMR0

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCmb	2072	604 24	660- 4-	66 22.	66. S- 2	SR0-	dDl
qCTb nCE	12171	4 06	4- S1	4 26	446a	- R2a	dDl
qpl r Ccl	0 72	6 . 4	6- 20	64SS	644S	2R14	dDl
Bwpcmb	1- 71	4aS S4	4. 244	4a4020	4a6a2	1R 6	dDl
Bwpcmb	1- 071	a - 1Sa	a06. 6S	a6- S66	a64- 0a	1R .	dDl
Br pE8mb	. 71	- Sa6	- 16	- 1S.	- 12S	1R S	dDl
Bdl b mTG	2S. 71	600 . S2	6. 10111	6. 616 -	6aa4aa.	1R41	dDl
Bdl b mTG	2S. 72	- 4 21. -	- - 62664	- - 4- a2S	- - a6226	1R01	dDl
Bpmb cCr	a171	0120	0620	0 20	0420	- R 6	dDl
9 wob cmb	1Sa71	22	242	22.	2- 2	- R04	dDl
9 wob cmb	1S671	40S.	46 .	42. 2	4 4	RSS	dDl
9 wob cmb	11171	26	2 1a	2 1.	2 64	- RSa	dDl
9 w8lcmb	4- 71	01. 42a	010. . .	01 1- 1	010 1.	SR S	dDl
9 w8lcmb	4471	121a . S4	11. 0a 16	1100 - - S	11. 0. . 10	1R01	dDl
9 wpenC	1271	610a611	6- 4- 021	64a. . a	6- - 04- S	2R46	dDl
9 wpenC	1272	0aSa-	aSa 6	0aS. 1	0. S1S	2RS2	dDl
9 G8mpCr	- 71	21 1SSS.	24. 06 12	204. S. .	246 . 102	12R1a	dDl
9 G8mpCr	- 72	21 11	22S62S	22622-	22S0a4	2R4-	dDl
9 Gpmb cmb	272	6a 6	6204	6. a-	60S4	SR60	dDl
9 new8T	. 72	62- a6	6102-	612. 4	61aS1	SRa.	dDl
9 nDDr p	6- 72	14S 0.	14Sa1S	1- . . .	14S4 S	SR 1	dDl
&El Dpnl cmb	1 671	a- 62.	a- 0a	a26- .	a- 2a2	SR60	dDl
&El Dpnl cmb	1 672	- 4 S	- S- 6	- S- -	- 10-	SR6a	dDl
Upecmb	16471	66S2-	60- 46	66266	66 4	1RS6	dDl
Upecmb	16472	26a60	201Sa	26024	26. SS	SR02	dDl
Hwon8Cmb	16S71	01241	0- 2a6	0- 2.	026a	1R0-	dDl
Hwon8Cmb	16S72	- - 1-	- 4 S	- S2-	- 262	SR62	dDl
h n8b cmb	16 71	. a0- . 4	. a. - 41a	. . 1 2 S	. a. 4Sa0	SR21	dDl
h n8b cmb	16 72	441- 0 4	4412S	4- - . 200	4- aa- 62	SR 0	dDl
tCocmb	11 71	6. a a21	0SSS. 44	6. a- a00	6. . S214	SR1-	dDl
tCocmb	11 72	1S26S2.	1S2 4. 0	1S20- 1S	1S2620.	SRS.	dDl
tpnC	472	- 2 - 2	- 2a62- 6	- 2. 4202	- 20a611	SR6-	dDl
tpnC	672	. SS. 1. 2	. 44Sa44	. SSaa 4	. 1 2. 6-	SR42	dDl
tpnC	072	1 - - . 14	1 40 a6	14. 014	1 2 0- a	1R06	dDl
KpEDTnC	a- 71	- 20	- 0	- 2	- 2	6R06	dDl
Lr wo	2S671	- aSS20	- . 1Sa0	- aa S-	- a6 - .	1R S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4467S	tCl Tpmb Cr Tuwb r :J	Na
9 8r CTl wb D8 :t&:J	y h SMS0	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:14J20JSa	&wTwMv8 :uwb r :J	S- . qF UMR

NwpwbrTrp	ywl	9NI 1	9NI 2	9NI -	9NI yrwC	9NI Fl &	5CdT
Lrwo	2S071	- 16466	- 22- S6	- 1. 41.	- 1. - . 0	SR 1	dDl
Lrwo	2Sa71	14a. - 0	1 140S2	1 24a 1	1 S. 6. 0	1R2S	dDl
LdTGmb	671	2 44261	2611aS0	2 00. 61	2 0aSS.	1R 1	dDl
ywgCrlcmb	2472	16S 042	1 0- 061	1 aa6-	1 0. 4	1R 2	dDl
ywCgwCrlr	72	1a20- 16	10. 2 S6	1a 6 - 6	1a2 4 -	1R06	dDl
yn8Eeor Cmb	. 471	1a4S4	1a022	1a0aa	1a6- a	1R1S	dDl
yn8Eeor Cmb	. 71	1- - 4S	1- 4. a	14S16	1- 61a	2R.	dDl
yn8Eeor Cmb	. 671	1606S	1626a	1611a	16- a2	2R8S	dDl
yn8Eeor Cmb	. 071	a0 -	a. a0	a261	a660	4R20	dDl
yn8Eeor Cmb	. a71	21- a4	21242	2216S	21 .	2R2.	dDl
urnoEbcmb	1 S71	1- . - - 0	14 S-	14- 2. .	142 0	2R8S	dDl
urnoEbcmb	1 S72	44- 60	442aS	441. 6	442a1	SR1.	dDl
ucdkr 8	6S72	- S1-	- 1 -	- 400.	- 4. a2	SR 4	dDl
NGhl DGhpml	- 172	. - 0a	. 1- 6	. - 0S	. 2.	1R4a	dDl
NnTwl cmb	- . 72	4a- 4. 2	400. Sa	4. 26- 2	4a4600	1R -	dDl
FGhocmb	1S- 71	012aaSa	0Sa1124	0Sa24S0	0S. 0446	SR a	dDl
FGhocmb	1S- 72	- - aS 20	- 4- S6	- - - 6.	- - a. 062	1R22	dDl
IdwCocmb	4 71	46 106-	461 104	4 01- 16	46120 1	SRa0	dDl
IdwCocmb	4 72	1 6- 4	1 . S0.	1 66a.	1 0- 04	SR 4	dDl
Ir8 Cmb	a271	20	2 2	262	26-	4R2a	dDl
Ir8 Cmb	0072	16S	1. 0	10-	100	1SR 1	dDl
Ir8 Cmb	0a72	1- 6	122	12a	12.	R46	dDl
Ic8dnC	2a71	1 0- 0620	1 a S4S	1 00664-	1 6. . 00S	SR64	dDl
Ic8vr p	1S071	- 660	- 06	- 0 .	- 660	2R S	dDl
Ic8vr p	1S. 71	- .	- 6 .	- 20	- 4. a	R6.	dDl
Inocmb	2- 72	1S- . 1a	1S24Sa	1S224a	1S2a a	SR S	dDl
ITpmCTcmb	a671	- - 040	- - - 000	- - 06a0	- - 0- 0	SR a	dDl
ITpmCTcmb	aa71	- S64a. 2	- SS- S4a	2. 22-	- SS0021	1Ra-	dDl
Im8mp	- 471	414S1	414. 0-	4164.	41 161	SR S	dDl
Arpecmb	1 . 71	1SSSS 4	1S1S4S4	1SS2 6.	1SS4- 42a	SR 4	dDl
Arpecmb	1 . 72	4- 416. a	420S04a	4- a66. .	4- - - S4a	1R	dDl
AGw8mb	2S- 71	2. 60	- S0	- 12	- S 6	2R6	dDl
AGw8mb	2S 71	0 S2	01. 4	0- 11	0- - 6	2R12	dDl
AdC	11a71	1S. 6	142-	1 6	1- 61	SR40	dDl
AdTwCmb	4071	11. . 41	11. 26S	12SSSa	11. 0- 6	SR	dDl
5pwCmb	2- a71	1- 2. S	1- S4SS	1- 22.	1- 1aa2	1R8SS	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4467S	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SMS0	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J20JSa	&wTwMv8 :u wb r :J	S- . qF UMRb

NwpwbrTrp	ywl l	9NI 1	9NI 2	9NI -	9NI yrwC	9NI FI &	5CdT
VwOwocmb	172	a0S06	a6. a2	a6 4-	a6a60	SR-	dDI
YTTr pecmb	10271	2SS. .	1. S4a	2S2a-	1. a1S	- R6	dDI
YTTr pecmb	10272	1SSa0	. a- 2	. 406	. 0. a	- R1-	dDI
YTTr pecmb	10671	1- 0S0	144SS	144- -	141aS	2Ra.	dDI
YTTr pecmb	10672	10 1	104S1	10- - .	104- S	SR62	dDI
YTTpcmb	a. 71	14S2aS22	14S011.	1- 6S1. 46	1- . SS- aa	1Ra0	dDI
YTTpcmb	a. 72	1 24. - 6	1 2 66	1 0166	1 44aa.	1R1-	dDI
ZdCd	6672	1S. - 0.	1S. 0. .	11S4S	1S. a61	SR40	dDI
ZqpdnCcmb	. S71	2a6aS	2a - a	- SSa4	2. 1S1	2R4	dDI
ZqpdnCcmb	. 171	6aa	6a20	6 6S	60 0	2R0	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4- 800-	4- 6060	4- 18y1	4- y0h0	SU82	ql s
c n&AmonE	12171	41yh	4- 84	4y18	4- y4	4U16	ql s
c rsenAq	0y72	46S6	4422	428y	44- 8	- U6-	ql s
BarAum	1- y71	- 1- 00h	- 1yhS2	- S80h4	- 1282y	1U10	ql s
BarAum	1- 071	y6S4h6	yy4212	y4882h	yy4y12	1USy	ql s
BerEllAum	h71	22- 2	2- 22	2- 12	228h	2U16	ql s
BAsmu&G	2Sh71	6- h0- 42	0S860SS	600hS28	60y4- y0	yU11	ql s
BAsmu&G	2Sh72	- 28y612	- - 481h6	- - h2Sy4	- - 41hy4	1U6S	ql s
BromAne	8171	61S2	6y4-	6y68	64S4	4U1S	ql s
RaOmAum	1S871	188	2- 8	2- -	21h	12U64	ql s
RaOmAum	1S671	4160	4y18	4yh-	4426	yU1-	ql s
RaOmAum	11171	206y	20- 6	2yyh	2686	4U16	ql s
RalqAum	4- 71	681yhy	6824- 2	68yy6y	68- 1h8	SUJ1	ql s
RalqAum	4471	11- 2h2S4	11- 210S2	1188SySy	11y1S40S	2U08	ql s
Rarbon	1271	46yy420	48y42S4	481h- 4h	4006- 26	2U22	ql s
Rarbon	1272	6S- 16	y014y	6S6- y	yh- 6y	- U2y	ql s
RGlorAne	- y71	2S0414Sy	24- 008hS	2642- 624	2- 8406- h	12USS0	ql s
RGlorAne	- y72	2S406S	2116S4	211621	2Sh- 2h	1U8h	ql s
RGromAum	y272	- 6824	- 6060	- y00y	- 64yy	1U62	ql s
Robal&	yh72	- 6h14	- yy18	- y018	- 6SyS	2U1S	ql s
RolI er	6- 72	8yy- -	8yh- 2	8y4- y	8y6- -	SUJ1	ql s
t EsI rosAum	1y671	66616	68S82	60h4S	60y46	1U2S	ql s
t EsI rosAum	1y672	28620	286h1	286y1	286y6	SU11	ql s
. rbAum	16471	yyy0y	y4- 2S	yyS48	y4h81	1U1y	ql s
. rbAum	16472	22h2S	2264h	220- -	22060	SU61	ql s
HaOolAnAum	16S71	yh204	y861-	yh818	yh2- y	1USS2	ql s
HaOolAnAum	16S72	28404	28S- -	281- 6	28214	SU82	ql s
9 olmAum	16y71	h- 4hh88	h884yyy	h618266	h6106S-	2U08	ql s
9 olmAum	16y72	4200h88	4- 8- hS4	42h0161	4- 1h684	1UJ1	ql s
DnOAum	11y71	60S4h0S	0180- hh	0S16660	6h6h608	- Uy1	ql s
DnOAum	11y72	hhS6S2	1SShS2-	1S20201	1SS8h6y	1U82	ql s
Don	y472	2240Sy-	2- S01h4	224022h	22601yh	1Uy-	ql s
Don	y672	4S601620	4Sy- 8666	4S2S- 8hy	4S401- h6	SU6S	ql s
Don	y072	h0S8S8	h60y22	h640y2	h606h4	SUJ1	ql s
KrEl &on	8- 71	- 21	- - 0	- S6	- 22	4U86	ql s
LeaO	2S671	2- 411-	24S- S0	228- 24	2- 4248	2Uy6	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	1h4- 44	1h4186	1h22SS	1h- y00	SU62	ql s
LeaO	2S871	h1S4h8	h26- 00	h1S- 64	h1y046	1US1	ql s
LA&GAum	671	24S1hS6	2y8yS06	2y412h8	2ySh420	- U81	ql s
5 agnesAum	2472	14h- 6y-	1ySyy- S	148hy11	14h62- 2	SUy6	ql s
5 anganese	yy72	11122S4	11122Sh	1Sh0yS8	11S0- S0	SU00	ql s
5 olEbOenum	h471	16- 6S	16861	16- 4-	16y21	1U08	ql s
5 olEbOenum	hy71	14010	1y2Sh	14- 04	14060	2U84	ql s
5 olEbOenum	h671	16hh4	10- - 6	1016h	10160	1USS	ql s
5 olEbOenum	h071	h4y4	hh01	h20S	hy6y	- U8S	ql s
5 olEbOenum	h871	2- 42S	24- - 1	2- - 2h	2- 6h-	2U-4	ql s
NeoOEmAum	1yS71	1128yS	11644-	11421y	114yS-	1Uy8	ql s
NeoOEmAum	1yS72	- 6SS2	- 6y1-	- y48S	- yhh8	1U4-	ql s
NAqkel	6S72	22y28	21h64	21hyS	22140	1U4h	ql s
PGosI Gorus	- 172	68h4	6226	6820	664h	yUy-	ql s
Po&assAum	- h72	2h682h	2h186h	2hShyh	2h- 21h	1US8	ql s
CGoOAum	1S- 71	66y6SS-	0- S- ySh	6h48648	6h6h- 86	4U6y	ql s
CGoOAum	1S- 72	- 2- 21S-	- 2612h8	- - - hS6-	- 200488	1U6h	ql s
pqanOAum	4y71	4- 162- y	401y20S	40y2111	4yh4y- h	yU26	ql s
pqanOAum	4y72	1yS26S	1y- 041	1y- S40	1y2- 4h	1U21	ql s
pelenAum	8271	212	220	1h6	212	0U-0	ql s
pelenAum	0072	1SS	12S	11-	111	hU10	ql s
pelenAum	0872	1- S	11-	1S6	116	1SU61	ql s
pAAqon	2871	1S0688SS	11S2hSSy	11S46641	1Sh4814h	1U42	ql s
pAver	1S071	28yS	- 2yS	- 2yh	- 12S	0U48	ql s
pAver	1Sh71	- S2y	20yh	2h0y	2h2S	4U86	ql s
poOAum	2- 72	1S26y2	1S1h22	hhhy8	1S1y11	1U-0	ql s
p&ona&um	8671	2168h2	210y4y	211S14	21y1yS	1U60	ql s
p&ona&um	8871	1h01- 44	1h6hyhy	1h6- S62	1h68SSS	SU22	ql s
pulfur	- 471	- 4- h6y	- ySh60	- y10h6	- 48hSh	1U2-	ql s
i erbAum	1yh71	h2S0y06	1S2S1hS6	1SS2hh04	h81- 1y2	yU42	ql s
i erbAum	1yh72	4210SS6	42- 6222	4- 41h10	426yS48	1Uy8	ql s
i GallAum	2S- 71	22yS	2S42	1h42	2S08	0Uy0	ql s
i GallAum	2Sy71	4806	y0- y	y21S	y20-	8U21	ql s
i An	11871	h4S-	hS- 0	h02h	h- hS	- U6h	ql s
i A&anAum	4071	h0016	h8168	1SS00S	h888y	1U60	ql s
MranAum	2- 871	8y168	86142	8- 8- y	8yS48	1U-6	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S6	Dns&umne&Name :	P8
RlAn&pamI le D :	5 9 SFS8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- S:S4	t a&aFAe Name :	S4Sc C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	y- y46	y- y26	y- 620	y- y66	SU1S	ql s
Y&erbAum	10271	1601h	10S61	10S4y	16h42	1U14	ql s
Y&erbAum	10272	842S	8264	0h86	822-	2U60	ql s
Y&erbAum	10671	11422	122- h	12S- h	11hSS	- Uy8	ql s
Y&erbAum	10672	16100	16S00	16616	162hS	1U06	ql s
Y&&Aum	8h71	128- 12yy	1- 80- 1S0	1- y002y8	1- 4202S0	4USS	ql s
Y&&Aum	8h72	14h1y14	1481661	1482242	148y1- h	SU0	ql s
ZAnq	6672	1Sy- 88	1S0y02	1S64h0	1S6486	1US-	ql s
ZAqonAum	hS71	22S4-	220- 6	2266h	2248-	1U0S	ql s
ZAqonAum	h171	yS84	46yh	4h84	4hSh	4Uy-	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	682- 66	68S4h0	684h0S	68246h	SU S	ql s
c n&AmonE	12171	606S	026y	01h2	0S6S	- U00	ql s
c rsenAq	0h72	1S84-	1S884	1S081	1S8- 6	SU48	ql s
BarAum	1- h71	h1hh11	h2hhh4	h22y- S	h21- - 2	1USS	ql s
BarAum	1- 071	y2S02-	y146- 6	y2y4S8	y21h8y	SU81	ql s
BerEIAum	y71	- S80	2y40	- S82	- S- y	2U61	ql s
BAsmu&G	2Sy71	hy- 2208	6y21h80	0S- - 2S6	662yS24	yU14	ql s
BAsmu&G	2Sy72	- 20Sy40	- 202hS4	- 260222	- 20S224	SUS8	ql s
BromAne	8171	0S8h	04S2	0444	0- 1S	2U68	ql s
RaOmAum	1S871	260	246	- S8	204	11U6-	ql s
RaOmAum	1S671	- 006	4h06	4026	4- hy	11U02	ql s
RaOmAum	11171	- y2y	41S-	- 824	- yh2	- Uh6	ql s
RalqAum	4- 71	2h- 410	2h- 0- 1	2h404-	2h- y64	SU20	ql s
RalqAum	4471	428hSyh	42S0828	42y4ShS	4262- 24	1U11	ql s
Rarbon	1271	h446h60	h4y1622	h62y6- 0	hh226Sy	1U0-	ql s
Rarbon	1272	688- 6	0S- 61	60y82	6yS6S	1U04	ql s
RGlorAne	- h71	21y04- S0	2hyh4h68	208- hy- 8	2h2h4y- 8	11U8h	ql s
RGlorAne	- h72	224S22	22- 81S	2- 1hSh	226446	1Uy4	ql s
RGromAum	h272	- 0h4-	- 0282	- 6y04	- 0266	SU06	ql s
Robal&	hy72	- y6h8	4Sh68	- y- 64	- y864	1Uh0	ql s
RoI I er	6- 72	114h22	11- y0S	11402y	1144S0	SU-4	ql s
t EsI rosAum	1h671	804yh	86681	80y14	80- 6-	SU02	ql s
t EsI rosAum	1h672	- hh21	- h614	- 44y1	- h2Sy	1U00	ql s
. rbAum	16471	6h4S-	66- 10	6- 661	6h120	2USS0	ql s
. rbAum	16472	2h6y2	2h00h	2hy22	2h0y6	SU4h	ql s
HaOolAnAum	16S71	0- 680	0hSy6	0- 2yh	04S26	1U28	ql s
HaOolAnAum	16S72	- 4062	- h116	- 46- 2	- 48- 0	SU02	ql s
9 olmAum	16h71	8- 2- 14-	yyySSy0	yy1- 6S4	y4S8y48	1SUSS	ql s
9 olmAum	16h72	4220- 0h	4241488	426h02-	4244862	SU46	ql s
DnOAum	11h71	hyhy- 14	0S- S480	028482S	60h82S0	1SU41	ql s
DnOAum	11h72	y840hS	yy26- 8	yy0hh4	yy1640	SU6h	ql s
Don	h472	26S41yy	261h86y	2hyh- 1h	26Sh128	SU4S	ql s
Don	h672	40SS24- 0	46yy1h0-	4h66h88-	46hh- 2y8	1U6h	ql s
Don	h072	11S061-	1111208	11Sh64-	11S8108	SU26	ql s
KrEI &on	8- 71	- 2S	- hh	- 26	- - 4	hUhy	ql s
LeaO	2S671	1S- 0y4S	1Shh012	1S108h2	1S- 0168	1U8-	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	8h0SS6	8h28y-	86h- 8-	8h8420	SU04	ql s
LeaO	2S871	42hh01-	418264-	41826y0	42S0S10	1USS	ql s
LA&GAum	671	2- 2h18y	2hh0282	26y2S- S	2h248- -	0U h	ql s
5 agnesAum	2472	040- 66	0- 0S20	026y46	0- 011-	1U y	ql s
5 anganese	hh72	1S8h2Sh	1S0yS68	1S6yy62	1S08S08	SU01	ql s
5 olEbOenum	y471	10- - 6	10612	161h1	10S- -	4Uh6	ql s
5 olEbOenum	yh71	11Sy6	1S- - 0	1S4- 8	1S624	- U88	ql s
5 olEbOenum	y671	1- 4yy	126h6	120y8	12y84	- U40	ql s
5 olEbOenum	y071	616S	6y8h	64h2	6h- 2	6U41	ql s
5 olEbOenum	y871	1661S	10- 11	10411	10111	2Uhh	ql s
NeoOEmAum	1hS71	1h466-	1h182y	1h8- h8	1h4yhS	2U11	ql s
NeoOEmAum	1hS72	40444	46S66	464yS	46660	1Uh1	ql s
NAqkel	6S72	2164S	2146S	21- S-	21460	SU0y	ql s
PGosI Gorus	- 172	6- y-	664-	628h	644S	2U8h	ql s
Po&assAum	- y72	486S0y	486y- -	4yS0Sh	480yS6	SUhS	ql s
CGoOAum	1S- 71	hy6y60y	0SSS404	0- - S8S8	6066y80	1SU4y	ql s
CGoOAum	1S- 72	- 2S2h2-	- 2488S1	- 20y2hh	- 24- h26	1U1y	ql s
pqanOAum	4h71	- 8- 2206	46420yh	486- hSh	44461y2	12U21	ql s
pqanOAum	4h72	1h4hh6	1h26h2	1h- h2h	1h- h08	SU62	ql s
pelenAum	8271	1hh	1SS	1hh	1- 0	2- U2-	ql s
pelenAum	0072	16-	16-	1h-	16S	- U61	ql s
pelenAum	0872	111	y2	y0	1SS	yU8h	ql s
pAAqon	2871	144- h022	142- 64S1	141yy11-	142yS412	SU8y	ql s
pAver	1S071	8611	8h61	8008	86hS	1U 1	ql s
pAver	1Sy71	0yy4	8- 86	8- 28	82- 6	2Uh0	ql s
poOAum	2- 72	01h26	0104-	021S-	010y1	SU41	ql s
p&ona&um	8671	1y2y6-	1y11- 1	18y6hy	1y12h1	SU80	ql s
p&ona&um	8871	10- - 24S	10- 42h6	102S14h	102y214	SU46	ql s
pulfur	- 471	- SyyS4	- S44y4	- S40- 8	- S6- 0y	1USS	ql s
i erbAum	1hy71	848S246	1SS2S- 20	1S4yh61h	y66h- y6	1SUyS	ql s
i erbAum	1hy72	4141y4y	4114814	4164- yh	414S- 86	SU6S	ql s
i GallAum	2S- 71	- S- 4	- 2Sy	- 242	- 162	- Uh4	ql s
i GallAum	2Sh71	0- 1y	0444	0h00	0440	1U04	ql s
i An	11871	2yy10	- S86y	- 1108	- S6h4	2U14	ql s
i A&anAum	4071	1h4h26	1hh- 2y	1h4- h8	1h40- 8	SU 4	ql s
MranAum	2- 871	0hS- S	0h88h	0h- 4S	0h418	SUh0	ql s

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LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 4467S0	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SFSy	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 14:- - :S-	t a&aFAe Name :	S41c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	0621h	0hyS-	0h444	0h8h4	SU1	ql s
Y&erbAum	10271	184- S	180Sh	10y2y	18- hh	2U14	ql s
Y&erbAum	10272	yS48	yS0h	y1h-	ySy2	SU6S	ql s
Y&erbAum	10671	1- 26h	1- 624	12y2-	1- 201	2U64	ql s
Y&erbAum	10672	162y4	16220	16y8y	16hS-	2U16	ql s
Y&&Aum	8y71	11h200y6	1- 0- 0y46	142841- h	1- 18- 2y2	11U$0	ql s
Y&&Aum	8y72	1hS2y40	140- 1h0	140h0S4	148- y- 6	1U11	ql s
ZAnq	6672	1S4- S0	1S4y2h	1Sh42h	1S4886	SU1-	ql s
ZAqonAum	yS71	2y8yy	- Sh42	2y482	2yy04	1U08	ql s
ZAqonAum	y171	6000	6h8h	6y00	608S	2U3y	ql s

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t N:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t N:&T :J	y h SM1S	T qbiqC. :M OCI:J	1
TI ip:A:coe p:d Oobdpn:J	2S2- 7S0712:14J- aJas	TI il Mdp:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	2072	40s- a4	404S60	40- 442	40a621	SR6	O P
d. ioe C. E	12171	4460	a2as	4s1	4 2	R14	O P
dIPp. oO	0a72	s22S	s1s1	s11S	s104	SR62	O P
BI dpe	1- a71	- 40s 0	- a- 162	- a4s6S	- a2S- 6	1RS-	O P
BI dpe	1- 071	6S- a0	62066a	61- s1	61aS4a	1Rs6	O P
BpIENpe	s71	211a	2166	21s1	21a0	1R S	O P
BqPe biG	2Ss71	6s - 10	6sS004s	60sS14s	6 s- sSa	1R42	O P
BqPe biG	2Ss72	- 24626	- 2a0 0	- - 2S- 44	- 204 - S	1R22	O P
BIOe q p	171	6a a	0S6S	021S	6sa2	4R0S	O P
9 I ne dpe	1S 71	2a4	246	2aS	2aS	1R60	O P
9 I ne dpe	1S671	44 4	4- 4	46a1	4aS6	2Rss	O P
9 I ne dpe	11171	- 1-	- 10s	- 1S-	- 14S	1R22	O P
9 I NOdpe	4- 71	160as-	1011 s	10Sa- 2	16s001	1R1-	O P
9 I NOdpe	4471	2 sS2- 0	2s460- 1	2s6- 216	2s- - - sa	1R S	O P
9 I Ir C.	1271	- 0114- 6	- 00 a4-	- 0aa466	- 04 4 2	SRs1	O P
9 I Ir C.	1272	460aS	4a6 s	40S a	46aS	1Ra0	O P
9 GNOIq p	- a71	22- ssas	26a20S62	2s21aas4	26S4041	1- R1	O P
9 GNOIq p	- a72	2- SsS4	2- - 4 0	2- - 6S2	2- 266a	SR66	O P
9 GIOe dpe	a272	20s20	20 44	20aSS	200a0	SR 2	O P
9 Or I N	as72	2sS46	200- 4	2 S 4	2 2	2R4S	O P
9 Ot t pI	6- 72	s4- - 1	s440a	s- - 24	s4S4-	SR60	O P
TEPt IOPdpe	1a671	06- 1s	0s1SS	06s1-	00444	1R s	O P
TEPt IOPdpe	1a672	- - 06s	- - sS	- - a22	- - 020	SRa6	O P
UIr dpe	16471	a420	a421s	a41 6	a422	SRSs	O P
UIr dpe	16472	221s2	21 2	2100a	21s- 1	1RS4	O P
HI nONq dpe	16S71	60446	6s4- 1	6 2	6 a6	1R4	O P
HI nONq dpe	16S72	- - 626	- - 1aa	- - - 22	- - - 60	SR02	O P
h ONe dpe	16a71	ssSa440	s 2s224	s002S60	s - aa0s	SR6	O P
h ONe dpe	16a72	4- S6S -	422a4a4	422- 21s	42a1a a	1R1	O P
& ndpe	11a71	010 - S	0- 4104	01- 6S02	021 01S	1RaS	O P
& ndpe	11a72	s 6- a	1SSSS01	ss2 s2	ss- 66	SRa	O P
&C.	a472	1s- - aSS	1s1Sa- 2	1s2a1s1	1s2- S04	SR6S	O P
&C.	a672	- a210- S1	- 41- 1- 6a	- 40 26	- 401S4a1	1Ra0	O P
&C.	a072	2aa- 2	144ss	1 1ss	1s41S	SR6s	O P
KIEt iC.	- 71	2ss	- SS	- 01	- 2-	12R4	O P
LpI n	2S671	sa22S	sSS4S-	sS11S2	s sS	SR6	O P

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LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T:J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Np. i:DI e t Np:&T:J	y h SM1S	TdNiqC. :M CICI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- 7S0712:14J- aJas	TI il MdNp:mI e p:J	S42dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	061ssa	04ss6	0a- s22	0aa2sa	SR 1	CI P
LpI n	2S 71	- 0- 2- 4	- 0461- s	- 6s1s04	- 02- 4 0	SR06	CI P
LqGdpe	671	2620a2S	261S 26	26S- 0s4	2614S46	SR40	CI P
y I g. pPdpe	2472	a2a21S	a1a066	a1- 020	a1 2- 4	1R1	CI P
y I . gI . pPp	aa72	0S1026	6sS0- a	6s21- -	6s4 6a	SR 6	CI P
y CNEr np. be	s471	1S- - 0	1S6aa	1S- - 0	1S44-	1R0a	CI P
y CNEr np. be	sa71	661S	60a2	6a- a	66- 2	1R66	CI P
y CNEr np. be	s671	011	62S	0a-	6sa	SR0s	CI P
y CNEr np. be	s071	4a1	44as	4160	4- 1	4R2	CI P
y CNEr np. be	s 71	11S46	1Sa0s	1Ss6-	1S 6-	2R2s	CI P
mpOnEe dpe	1aS71	144 4	14ss41	146Ss-	146s61	1R 1	CI P
mpOnEe dpe	1aS72	466S4	46SS2	460S	464-	SR 2	CI P
mqCkpN	6S72	1642-	161- -	1a2aa	1as- 0	- R 2	CI P
uGCCPt GCIbP	- 172	- 0 4	- s 4	- 6a1	- S6	4R41	CI P
uCIl PPdpe	- s72	2 0saS	2 a401	206 -	2 - 42S	2RS6	CI P
FGCndpe	1S- 71	01aS22S	02saa60	01 S6-	02112 -	1RSa	CI P
FGCndpe	1S- 72	- 2s0-	- - 1S -	- 2aa- 64	- 2 0 0s	SR	CI P
DCI . ndpe	4a71	46 42 1	4 1ss6s	46s- 446	40- 2a6a	1R6S	CI P
DCI . ndpe	4a72	1a2a2	1a21 S	1aSa -	1a1064	SR6	CI P
DpNp. dpe	271	1- a	11a	2	111	2- Rs1	CI P
DpNp. dpe	0072	14-	1- 0	22S	160	20R0	CI P
DpNp. dpe	0 72	4	12-	110	1S	1sR44	CI P
DqNqC.	2 71	1- S4- - 6-	1- 4Sa a	1- 2 0221	1- 24a4sS	1R4S	CI P
DqNpI	1S071	a01S	a2as	a04-	aa01	4R a	CI P
DqNpI	1Ss71	a2Ss	a1as	a11	a162	SR s	CI P
DCndpe	2- 72	01aa1	02a40	026- s	02246	SR 4	CI P
DiIC. idpe	671	11a11a	1102a6	110- 16	116a62	1RS	CI P
DiIC. idpe	71	1S2- 2 0	1S160s	1SSa416	1S1a160	SR s	CI P
DbNbI	- 471	20a0sa	20a244	20 S4	206- 62	SRa4	CI P
cpIr dpe	1as71	1S1- s- - 1	1SS04S- 6	sssS002	1SS6 S46	SR04	CI P
cpIr dpe	1as72	421SS- a	4124aS4	424S2- 6	41s1as2	1R4-	CI P
cGI Ndpe	2S- 71	22aS	2- 2a	2- aS	2- Ss	2R2a	CI P
cGI Ndpe	2Sa71	a6s-	a01	6S a	a - 2	- R06	CI P
cq	11 71	10 2S	1 S 0	10s62	10sa0	SR04	CI P
cqI . dpe	4071	1S- - 14	1S2- 1	1S- - - s	1S- S11	SRa-	CI P
5II . dpe	2- 71	4 0	4s2a4	4 6- 6	4 s2-	SR64	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCl:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	u
9 Nb. i:DI e t Nb:&T :J	y h SM1S	Tdbiq C. :M OCl:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- 7S0712:14J- aJas	TI il Mdb:mI e p:J	S42dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a172	a1s14	a14 2	a1a0s	a16as	SR44	Cl P
Yiiplr dpe	10271	1- - 4s	141S	1- 64s	1- 0S2	2R0s	Cl P
Yiiplr dpe	10272	60- a	6604	6 1-	6041	1RS-	Cl P
Yiiplr dpe	10671	1S401	1Sas6	ss01	1S- 46	- R2S	Cl P
Yiiplr dpe	10672	140- 1	14s4	1a4s	1aSas	2R6-	Cl P
Yiildpe	s71	1- 6S Sa	1- 166S	1- aa64S4	1- 0662sS	1R 2	Cl P
Yiildpe	s72	1402 44	14as0SS	14a00a4	146- 4- 2	SRa6	Cl P
Zq O	6672	01- - a	0S 6	0Sa24	0Ss1a	SRa0	Cl P
ZdOC. dpe	sS71	10612	2S1a1	1s164	1 s0a	6R0a	Cl P
ZdOC. dpe	s171	42 4	4S42	42s2	42S6	- R	Cl P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Nd. i:DI e t Nd:&T :J	y h SM11	T dbiqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- 7S0712:14J- aJsa	TI il Mdd:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	2072	s 4s2a	s - - 2a	sa6s02	s 1406	SR0-	OI P
d. ioe C. E	12171	10a4	10s	2S10	1as-	0R3	OI P
dIPp. oO	0s72	1a6-	1a62	16 S	1aSs	sR32	OI P
BI Idpe	1- s71	- 022	- as4	4Ss410	4S12- S	SR 2	OI P
BI Idpe	1- 071	6 - 6 a	0S6401	0S0S0a	0S2416	1RSa	OI P
BpIENdpe	71	2aa1	2 S	2 66	2 46	1R 4	OI P
BqPe biG	2S 71	6a11- 16	0S642a2	60as6s4	6aa0Sa4	2R24	OI P
BqPe biG	2S 72	- 221aas	- 24 a06	- 1s1s- s	- 2S0066	1R3a	OI P
BIOe q p	a171	0s11	026S	01s2	0- Sa	2R32	OI P
9 I ne dpe	1Sa71	1aa	12s	1- a	1sS	22RSs	OI P
9 I ne dpe	1S671	4- s1	4S60	4110	410	- R32	OI P
9 I ne dpe	11171	10a0	161	1004	1020	sR41	OI P
9 I NOdpe	4- 71	2s1 - 4	2s1 26	2ssS04	2s2 0a	SR02	OI P
9 I NOdpe	4471	42a - 2s	420s61a	42012- 2	420a02s	SR22	OI P
9 I Ir C.	1271	6S1- 2a2	61- 04a4	6- - 211-	616S 6S	2R31	OI P
9 I Ir C.	1272	00s22	00as0	0626s	00214	1RS	OI P
9 GNOIq p	- s71	2- a2- 264	204sss 2	2 4- 6 61	26 Ss202	1SRsa	OI P
9 GNOIq p	- s72	2- S200	2- a402	2- a	2- 624	2R21	OI P
9 GIOe dpe	s272	2s66S	246s1	2s02-	2s- 4s	2R 0	OI P
9 Or I Nd	s 72	26a42	2s- S6	260ss	26- S1	- R2a	OI P
9 Ot t pI	6- 72	s4S1	s4Sa-	s- 10	s- 061	SR 4	OI P
TEPt IOPdpe	1s671	a44 -	a- 110	a44a4	a4S- 1	SR 4	OI P
TEPt IOPdpe	1s672	- 6222	- sa1a	- s0 1	- s 44	SR30	OI P
UIr dpe	16471	62- 1-	6- 1s	6S12S	61a64	2R34	OI P
UIr dpe	16472	2s240	2s414	24 s0	2s2S6	SR 2	OI P
HI nONqdpe	16S71	04Sa2	0sS- 0	04S- 1	04- a-	SR06	OI P
HI nONqdpe	16S72	- s a2	- s16S	- 4 - 2	- s- sa	1R36	OI P
h ONe dpe	16s71	0- 14	01424S	6- 4- 2a	00- S6	1Ra1	OI P
h ONe dpe	16s72	41ss0S6	42S1a2	- a4S12	411- a4	2R0	OI P
& ndpe	11s71	01 - 66a	0S1as4s	6 a2a1S	0S6sSSa	1R3S	OI P
& ndpe	11s72	6a6 2	0 - s4	- 46a	62sSs	2R1s	OI P
&C.	s472	1s6Sa -	1s2S- S0	1s4- 12s	1s41442	1R 2	OI P
&C.	s672	20061aS-	201a2s- S	20s4s12s	204 64a6	1RS6	OI P
&C.	s072	6sss4S	66Sa41	6s6- 6S	6s0sa1	SR4-	OI P
KIEt iC.	a- 71	- 40	- 16	- 46	- - 0	sR2s	OI P
LpI n	2S671	- - 1622	- - aSs0	- 2424a	- - 1- S	2RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Np. i:DI e t Np:&T :J	y h SM11	TdNiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- 7S0712:14J- aJsa	TI il MdNp:mI e p:J	S4- dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S071	204640	202S4-	2011aS	202624	SR36	OI P
LpI n	2Sa71	12 16S2	1- S2404	12a4- 0a	12 2a1a	SR0S	OI P
LqiGdpe	671	264- 11a	2s20saa	2s S616	2sa01S0	2R24	OI P
y I g. pPdpe	2472	s4261a	s41S4a	s- 01sS	s4S202	SRs2	OI P
y I . gI . pPp	ss72	6a1 a	606s0a	602a66	600140	SR3a	OI P
y CNEr np. be	471	16- 4-	16a44	160 4	1666S	1R3s	OI P
y CNEr np. be	s71	2010	20SS	20s	202s	1R1S	OI P
y CNEr np. be	671	s64-	sss1	s06S	s6s1	1Ras	OI P
y CNEr np. be	071	1610	1a42	2S60	1a42	12R22	OI P
y CNEr np. be	a71	441a	4- s	4- 26	4- 60	1RS6	OI P
mpOnEe dpe	1sS71	1ss- 1	1s1110	1s12 a	1s26S2	1R3a	OI P
mpOnEe dpe	1sS72	40Ss2	46001	461- 6	466s-	1RS1	OI P
mqOkpN	6S72	11s2s	11s0s	1S6S4	112- s	4Ra0	OI P
uGOPt GOIbP	- 172	- - a4	- 006	- 026	- 62a	sRaa	OI P
uOI PPdpe	- 72	- 26 a2	- 26s- -	- 2sa16	- 26444	SR1a	OI P
FGOndpe	1S- 71	0- - 11- 4	0SsSS41	01- SSS6	010S- 4	2RS2	OI P
FGOndpe	1S- 72	- 202aas	- 2s10 4	- 1206	- 2104s	2R44	OI P
DOI . ndpe	4s71	466410S	4s s Ss	4646121	46- s- a	SR06	OI P
DOI . ndpe	4s72	140021	1401sa	144s4-	146404	1R16	OI P
DpNp. dpe	a271	1- s	1 1	1S6	144	2 R	OI P
DpNp. dpe	0072	160	100	1- S	1sa	1sR30	OI P
DpNp. dpe	0a72	146	120	110	1- S	11R-	OI P
DqNOC.	2a71	1s1 0S 4	1s2Sa11	1s26- - 22	1s222a4s	SR2-	OI P
DqNpI	1S071	1 0s	16a-	1a42	1a- -	0R6	OI P
DqNpI	1S 71	1a42	16Sa	10a4	104s	6R6	OI P
DOndpe	2- 72	4- sS0	42412	426- S	42asS	1Rs	OI P
DiIC. idpe	a671	1a1aSs	1aS1s2	10a- 2S	1aSS -	SR0	OI P
DiIC. idpe	aa71	166a- a1	162a- 1S	161- 0a-	16- 6a2s	1R0-	OI P
DbNbI	- 471	2a20S2	2as2a0	2a2 - S	2a- 64S	SR3S	OI P
cpIr dpe	1s 71	s sa	1SS24Sa1	60- Sa	s0a2	SR2a	OI P
cpIr dpe	1s 72	4S02 0S	4S a s6	- - 1416	4S- 4440	2R2-	OI P
cGI Ndpe	2S- 71	1aa4	1 a4	212s	1 0	6RSa	OI P
cGI Ndpe	2Ss71	sS4-	46s1	4a1a	4a- 0	4RS0	OI P
cq	11a71	aSS-	aSS-	06 4	0 SS	2R2s	OI P
cqI . dpe	4071	11a 1	11aa4S	12S1Sa	11 - 1-	SR3a	OI P
5II . dpe	2- a71	s1 4	s201S	s2- 41	s2- - 4	SR0-	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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LI r :DI e t Nb:&T :J	3 - 4467S	& FIIbe . pi:mI e p:J	ua
9 Nb. i:DI e t Nb:&T :J	y h SM11	Tdbiq C. :M OCI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- 7S0712:14J- aJsa	TI il Mdb:mI e p:J	S4- dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	s172	416s0	4S1S6	41- - S	41S- 1	1R	OI P
Yiiplr dpe	10271	16s44	1621S	16420	16- 4	1RS-	OI P
Yiiplr dpe	10272	060s	0 a6	0a40	0a- 6	1R	OI P
Yiiplr dpe	10671	112- S	11 40	11 40	110Sa	- Rs4	OI P
Yiiplr dpe	10672	1s0a2	1saa2	140 0	1s4a0	- Ra0	OI P
Yiild pe	a 71	1- a s22a	1- s06- 21	1- s 04-	1- 6a 66-	1R S	OI P
Yiild pe	a 72	144104a	1444420	1- aS06a	1422- 14	2Rs-	OI P
Zq O	6672	4S- s1	41- 1-	4Sssa	4S041	1R24	OI P
ZdOC. dpe	S71	41262	4112a	41s02	41- 21	SRss	OI P
ZdOC. dpe	171	S2a	s s	2- 0	2a0	- RS	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:41:J6	&sTsUdP u sb r:	S44q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	- - N6N0	- - 2J0S	- 26hh-	- - 20JS	1M06	dDw
qCTb nCE	12171	22Sh	24- 4	2- - 4	2- 2J	4MNJ	dDw
qpwr Ccd	0J72	10NS	1N42	1N26	1N16	1M00	dDw
Bspcmb	1- J71	2SSN- 1	2S- J61	2S4JSS	2S2h64	SM14	dDw
Bspcmb	1- 071	- JJN- 6	- JN0S4	- 6S246	- JN262	SM62	dDw
Br pEPRmb	h71	1JJJ	1604	1JhJ	16SN	- M06	dDw
Bcwb mTG	2Sh71	600N016	6000- 2N	6N6hh0S	6NSN601	SM0N	dDw
Bcwb mTG	2Sh72	- - SJNJ6	- - 1h002	- 0- - 2- N	- 4J2hJJ	0MS-	dDw
Bpmb cCr	N171	62h-	64h-	61J2	6- 1-	2M02	dDw
5 sob cmb	1SN71	121	N-	NN	h0	21MJ	dDw
5 sob cmb	1S671	- h06	- 0h2	- 0h2	- NJ-	2M0J	dDw
5 sob cmb	11171	1101	1146	11J1	11J6	1M16	dDw
5 sPdcmb	4- 71	N- 140	N- 64-	N4- N0	N- 02J	SM0J	dDw
5 sPdcmb	4471	142004N	14622SJ	14- 66S1	14421NJ	1M24	dDw
5 spenC	1271	- 24hS0J	- - 04010	- 414- S6	- - 46S- -	2MN	dDw
5 spenC	1272	4SJ6J	42JS4	411h2	4142S	2Mh	dDw
5 GPmpcCr	- J71	24S2406-	20h0- J4J	2hh26S2h	20- SN112	11MS1	dDw
5 GPmpcCr	- J72	2- 4h- 4	2- h116	24- J6J	2- h2SJ	1MMS	dDw
5 Gpmb cmb	J272	2h2J0	2N66h	2N241	2N022	1M0N	dDw
5 nesFT	Jh72	1hJJ0	1h24-	1NNJ6	1h21h	1MM-	dDw
5 nDDr p	6- 72	- - 2Jh	- - 0N4	- - N14	- - 61h	SM1-	dDw
&EwDpnwcmb	1J671	J644J	JNS- J	Jh1S6	J0N62	2M1	dDw
&EwDpnwcmb	1J672	2416h	241hJ	2- 04N	24S- 0	1MS4	dDw
Fpecmb	16471	422S1	4- N6J	44SN2	4- - N-	2M0	dDw
Fpecmb	16472	10- 21	10- SJ	10SS4	1021S	1MS4	dDw
HsonPCcmb	16S71	4Nh24	J14N-	J2- 4J	JSh1N	- M1h	dDw
HsonPCcmb	16S72	244hh	242Sh	24SNh	24266	SMM0	dDw
y nPb cmb	16J71	h46N- JJ	hNJJN14	hN4J10N	h02- 11J	2M20	dDw
y nPb cmb	16J72	422611h	42J4S- S	4Jh60- 4	4- JNh61	4M0-	dDw
tCocmb	11J71	0S2- h0-	01J2N6-	0- - 0hNJ	01016S0	2M2S	dDw
tCocmb	11J72	hhNSh6	hN2J44	1SN2NN-	1S21104	JM2h	dDw
tpnC	J472	1S204hh	1SS0- S0	hh- 412	1SSh4S6	1M0S	dDw
tpnC	J672	1h2- 22S1	1h26- 6- 2	1h- 2N1h0	1h204600	SM2J	dDw
tpnC	J072	46040-	46SSJ4	4JJS4J	46SNJN	1M16	dDw
KpEDTnC	N- 71	2h0	- 16	- S0	- S0	- MS6	dDw
Lr so	2S671	2J1S62	2JNN42	2J0hhN	2JJh60	1M00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-44671S	tOwTpmb Or Tusb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2-7S0712 14:41:J6	&sTsUdP usb r:	S44q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
Lr so	2S071	2111hS	212SSN	21J041	212hNS	1M14	dDw
Lr so	2SN71	hN6NNh	1SSh04h	1S110h6	1SS2N11	1MIN	dDw
LdTGmb	671	24hJN1N	2J162Nh	2J10-11	2JShNS6	SM4N	dDw
9 sgOr wcmb	2472	2-0110	2-4N66	2-SNJS	2-420N	1MJ	dDw
9 sOgsOr wr	JJ72	-h22-S	-N6hN-	-NS064	-N66Jh	1M4N	dDw
9 nPEeor Cmb	h471	NN-6	h412	h4hJ	h24N	-MIN	dDw
9 nPEeor Cmb	hJ71	-4N4	-4-4	-N10	-J0N	JMI-	dDw
9 nPEeor Cmb	h671	4NN4	J206	J1-4	JShN	-MIh	dDw
9 nPEeor Cmb	h071	2-Jh	2-Sh	21Jh	220J	4MIN	dDw
9 nPEeor Cmb	hN71	664-	Jh-J	6J6N	6-N2	6M1S	dDw
u r noEb cmb	1JS71	1S41hJ	1S0-Jh	1Sh0S6	1S0SN6	2MIN	dDw
u r noEb cmb	1JS72	-2h44	-2N24	-2660	-2N11	SM12	dDw
u cdkr P	6S72	hJ00	h4NS	h1-6	h-hN	2M46	dDw
8 GhwDGhpmw	-172	16SS	1J60	14h2	1JJ-	-MI0	dDw
8 nTswwcmb	-h72	1J62N2	1J-2J0	14N-N-	1J2641	2M61	dDw
. Ghocmb	1S-71	02S10S4	014N-01	02NS-6N	021S14N	SM12	dDw
. Ghocmb	1S-72	-2h2N0-	-20JJh0	-JJ-h62	--04144	4M62	dDw
I dsCocmb	4J71	4JNhN1-	4J0NNhJ	4JNJhh6	4JN4hS1	SM12	dDw
I dsCocmb	4J72	1J1h-S	14h-6J	164h02	1JJ422	JMIN	dDw
I r PCmb	N271	12J	JJ	00	N6	41M04	dDw
I r PCmb	0072	1-S	11-	140	1-S	12MI2	dDw
I r PCmb	0N72	N2	N0	0S	NS	1SM10	dDw
I dPdnC	2N71	0-264S4	0-26424	0-0NJ01	0-4-0hh	SM41	dDw
I dPr p	1S071	140J	1-60	1610	14N6	NM44	dDw
I dPr p	1Sh71	1-JN	140J	1J2J	14J-	JMIh	dDw
I nocmb	2-72	4S1N1	4S0h1	4S604	4SJ4h	SMIS	dDw
I TpnCTcmb	N671	0-SJN	06J6S	046JN	040Jh	2M4	dDw
I TpnCTcmb	NN71	6462-0	66S422	6J24NS	6J-S46	1M8h	dDw
I mPmp	-471	2J6S41	2JN22S	261J1N	2JNJh-	1M80	dDw
Ar pecmb	1Jh71	h0J104h	hhNJNS-	h016JJ4	hN1NS-6	1M4h	dDw
Ar pecmb	1Jh72	4202S2J	4S4NNN2	44hJ0J-	420222S	JM4-	dDw
AGsPRmb	2S-71	1-SS	1460	142J	1-h0	6M21	dDw
AGsPRmb	2SJ71	--26	--60	-J26	-4S6	-M1S	dDw
AdC	11N71	1262-	120S6	126hN	12606	SM6	dDw
AdSCmb	4071	N22-6	N44hS	N641S	N4-0h	2M4N	dDw
RpsCmb	2-N71	---hJ	-460-	--JS-	--NJ0	2M8h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671S	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU12	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:41:J6	&sTsUdP u sb r:	S44q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
VsCsoomb	J172	- 1NhJ	- 21Jh	- 14hJ	- 1NJS	1N8J	dDw
YTTr pe omb	10271	11hJ6	11hJ6	12- J6	12SNh	1M11	dDw
YTTr pe omb	10272	J01N	JJ1N	JJ2h	JJNN	2N81	dDw
YTTr pe omb	10671	N0hJ	h10N	N062	Nh12	2M8S	dDw
YTTr pe omb	10672	1- N- S	146- S	1J24N	14J6h	4MMN	dDw
YTTpomb	Nh71	1- 641040	1- JN22JN	1- - N4JN1	1- J- 61h6	SM1h	dDw
YTTpomb	Nh72	14N11S-	1- J621-	1JhN1NN	140NJS1	NM1N	dDw
ZdCd	6672	1h- 60	1hh14	1h4hS	1hJhS	1M40	dDw
ZqpdnComb	hS71	1hS64	1hJ02	2SS6J	1hJ60	2M6	dDw
ZqpdnComb	h171	41S1	4442	4S42	41hJ	JM1J	dDw

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On:7/14/2023 8:48:56 AM
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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP u sb r:	S4Jq. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	64J21N	6- J- JJ	6- J- 62	6- N64J	SMMh	dDw
qCTb nCE	12171	2JN4	2h- 4	26- 4	2010	6M10	dDw
qpwr Ccd	0J72	100S	10N-	1064	100-	SMJ	dDw
Bspcmb	1- J71	- 020S2	- 0- 4S1	- 601h1	- 01ShN	SM12	dDw
Bspcmb	1- 071	6J26Sh	66266S	6J02J1	6J0JS0	SM00	dDw
Br pEPmb	h71	- 122	- 166	- 10S	- 1J-	SMM4	dDw
Bcwb mTG	2Sh71	60- SNhS	01- 1h26	60021NN	6N0N- - J	- M21	dDw
Bcwb mTG	2Sh72	- 1hNSJ4	- 2h1h0h	- 2J4- - S	- 24N121	1M46	dDw
Bpmb cOr	N171	06S2	0h00	N- J-	0h00	4M0S	dDw
5 sob cmb	1SN71	1N-	1h2	2- -	2S-	1- M21	dDw
5 sob cmb	1S671	44- 4	4426	4260	4- 06	2M1J	dDw
5 sob cmb	11171	221h	2- JS	21Nh	22J-	- MM1	dDw
5 sPlcmb	4- 71	1J- h- S	1J6h0S	1J6J12	1JJNS4	1M3J	dDw
5 sPlcmb	4471	262J60N	260- h64	2021- 4N	260- 66-	1M0h	dDw
5 spenC	1271	J1NJ22N	J- 6S1S0	J4061- J	J- 4S4hS	2M04	dDw
5 spenC	1272	6601h	6Jh4h	66J1S	66- h2	SM0S	dDw
5 GPmpcOr	- J71	220- 0- 4J	266NhNN0	2N0h1624	26S02hJ2	11M0h	dDw
5 GPmpcOr	- J72	21hNS0	22Jh60	22h1N-	224hN6	2M12	dDw
5 Gpmb cmb	J272	2h410	- S24h	2Nh- -	2hJ- -	2M2J	dDw
5 nesPT	Jh72	- JS46	- 44J2	- 420N	- 4Jh2	1M10	dDw
5 nDDr p	6- 72	642hJ	640hN	64060	6462S	SM44	dDw
&EwDpnwcmb	1J671	1S4h11	1SJ06N	1S- 404	1S401N	1M11	dDw
&EwDpnwcmb	1J672	4- 601	426hJ	4204J	4- S- 0	1M2N	dDw
Fpecmb	16471	N- JJ4	N6112	N0S- 6	NJJ60	2M11	dDw
Fpecmb	16472	- J06N	- 4N66	- JS1-	- J216	1M10	dDw
HsonPCcmb	16S71	Nh204	hSh- J	N0- h6	Nh2S2	1MMh	dDw
HsonPCcmb	16S72	42J24	42SN6	41N- h	421JS	SMM2	dDw
y nPb cmb	16J71	h6NNS- 1	hhhNS2S	h64J4- 4	h000162	1M10	dDw
y nPb cmb	16J72	4SJJhS-	426hN42	42JS6JS	41h21- 2	2MM2	dDw
tCocmb	11J71	0Sh4161	01NS6JN	6hJ11N6	0S0J- - J	1M64	dDw
tCocmb	11J72	h6SS60	hN46h1	1SS426J	hN- SS0	2M2J	dDw
tpnC	J472	24- 1N00	24JN626	2421J- 6	24- 0- 40	SM0h	dDw
tpnC	J672	44J4h162	4416N2J2	4- 0JSNh4	441J61S-	SM1S	dDw
tpnC	J072	1S62hS4	1SJSJN2	1SJ- 6J2	1SJJ01-	SM61	dDw
KpEDTnC	N- 71	- 62	- J0	- J6	- Jh	SM12	dDw
Lr so	2S671	- 4040N	- 6SJ- -	- JN- 2-	- JJ44J	1M10	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	2N611S	2h00Sh	2h4h0S	2h2h- S	2N80	dDw
Lr so	2SN71	1- 64N0h	1414JNN	1- h12SN	1- hS22J	1N0h	dDw
LdTGmb	671	2J- h- J0	2JNN- - 1	2JN- J6-	2J0S410	1N8J	dDw
9 sgOr wcmb	2472	J- NSJ2	J46246	J464J0	J4- JNJ	SNMN	dDw
9 sOgsOr wr	JJ72	0N22NJ	0N66- 2	000- 2h	0N2SN2	SN0S	dDw
9 nPEeor Omb	h471	1010N	10NhJ	101h4	10422	2MJ	dDw
9 nPEeor Omb	hJ71	6420	0S00	6JJ2	66NJ	JM16	dDw
9 nPEeor Omb	h671	h64J	hh01	h2hJ	h6- 0	- M1	dDw
9 nPEeor Omb	h071	- NN4	4626	4J4-	4- J1	hM4	dDw
9 nPEeor Omb	hN71	1S40h	11- - N	112- N	11S1h	4N26	dDw
u r noEb cmb	1JS71	104NS4	1N10- 0	10040h	10NSS0	1M16	dDw
u r noEb cmb	1JS72	J4N2J	J2JN6	JJS06	J4162	2M-	dDw
u cdkr P	6S72	26hNh	262J1	26S41	26420	1MMN	dDw
8 GhwDGhpmw	- 172	- N10	- J42	- N- 4	- 0- 1	4Mh	dDw
8 nTswwcmb	- h72	46N0- 2	46S62J	461h16	46- 0J0	SM14	dDw
. Ghocmb	1S- 71	01- 1hS6	0204- 26	0S0614-	016S0h2	1M4-	dDw
. Ghocmb	1S- 72	- 144JNh	- 20- - J0	- - 46JS1	- 2J4N16	- M14	dDw
I dsCocmb	4J71	46112N0	40- - 026	4J6N2N4	46- 0066	1MMJ	dDw
I dsCocmb	4J72	144JhS	1J121-	1J1h0J	14h2Jh	2N02	dDw
I r P Ccmb	N271	104	2SS	210	1h0	11M10	dDw
I r P Ccmb	0072	1h-	1NS	210	1h0	hM44	dDw
I r P Ccmb	0N72	160	1- J	1- 1	144	1- N60	dDw
I dPdnC	2N71	114N40- 0	1101hN40	11N12400	11602- J4	1M4J	dDw
I dPr p	1S071	16JN	1N60	2S10	1N40	hN04	dDw
I dPr p	1Sh71	16JN	1h42	1hSh	1N- 6	NM4-	dDw
I nocmb	2- 72	426J4	4- 24N	4- 066	4- 22-	1N2h	dDw
I TpnCTcmb	N671	h- h2-	h- S10	h- h04	h- 6- N	SM10	dDw
I TpnCTcmb	NN71	NSJ6- 2	NSh44S	N16h- -	N1S66N	SN01	dDw
I mPmp	- 471	201N0J	20SN21	201- 6S	201- J2	SM1h	dDw
Ar pecmb	1Jh71	hNhS644	1SSh- 111	hNhSNS0	hhJN1N0	1M10	dDw
Ar pecmb	1Jh72	- h102JJ	4SJJ- 0N	414JJhh	4S- h411	2MMJ	dDw
AGsPbmb	2S- 71	2042	262J	- 1JS	2N- h	hN01	dDw
AGsPbmb	2SJ71	6N1S	6N6h	62h-	66J0	4N06	dDw
AdC	11N71	1S66-	1S021	11SSJ	1S0h6	1N6h	dDw
AdSCcmb	4071	26JNN0	20- 4N4	264NJ4	26NS0J	1N06	dDw
RpsCcmb	2- N71	J0JN1	6SNSJ	JN04J	JhS44	2N00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lse l sb DP t&:	3 - 446711	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU1-	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:44:J0	&sTsUdP usb r:	S4Jq. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4N1J0	4N100	40J0h	40h01	SM01	dDw
YTTr peomb	10271	2N24S	200h6	2040h	20N- N	1M10	dDw
YTTr peomb	10272	1411-	1- N- J	1- 246	1- 0- 1	- M4-	dDw
YTTr peomb	10671	1NJ64	1NJNh	1NNSJ	1N6J-	SM01	dDw
YTTr peomb	10672	1h10J	1h1hN	1h24N	1h2S0	SM1h	dDw
YTTpomb	Nh71	1- hJN4N4	14J412J1	14Sh2642	141h04Jh	2M1J	dDw
YTTpomb	Nh72	144N42-	1JS0S- -	1J2J62S	14h- 6h2	2M0S	dDw
ZdCd	6672	JNN2J	JNNhJ	JNJS0	JN042	SMJ	dDw
ZqpdnComb	hS71	- JhNS	- 0N44	- 0h11	- 024J	2M14	dDw
ZqpdnComb	h171	N21h	0Nh4	N- 44	N1J-	2MJ	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3-446712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2-7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb oCcmb	2072	N1046N	N14JS6	NS6h4S	N12h01	SM00	dDw
qCTb nCE	12171	10h2	1Nh2	2SSh	1Nh0	JM02	dDw
qpwr Ccd	0J72	1hN-	1NhN	1NN6	1h2-	2M0J	dDw
Bspcmb	1-J71	4600JJ	466-62	46S6NS	464h-2	SMM1	dDw
Bspcmb	1-071	N1S640	N26J1-	N1SJhJ	N1Jh1N	1M12	dDw
Br pEPmb	h71	4S1J	4SS-	4SS4	4SS0	SM10	dDw
Bcwb mTG	2Sh71	606-10N	6NS0J24	6NJ--J0	6NSNS2S	SM06	dDw
Bcwb mTG	2Sh72	-206-2N	-2-N246	-2-2066	-24h11-	SM0-	dDw
Bpmb cCr	N171	NN0N	h20N	h-2S	h1Jh	2M06	dDw
5 sob cmb	1SN71	1J4	101	2SN	10N	1JM01	dDw
5 sob cmb	1S671	4410	464-	4260	444-	4M2J	dDw
5 sob cmb	11171	2S01	2S61	2S4N	2S6S	SMMN	dDw
5 sPlcmb	4-71	1h-0hh	1h200S	1N0NJ-	1h1404	1M06	dDw
5 sPlcmb	4471	--1-461	--226JJ	-2460J0	-2h42h1	1M26	dDw
5 spenC	1271	-h06-61	4S-12J1	4S6-4J4	4S2-6Nh	1MSh	dDw
5 spenC	1272	4h-06	4h4SS	JS--0	4h0S4	1M1S	dDw
5 GPmpcCr	-J71	22hJ010-	2664S202	2N41J120	26SS41h1	1SM01	dDw
5 GPmpcCr	-J72	21hhS1	222h6-	226SS1	222hJJ	1M10	dDw
5 Gpmb cmb	J272	4-04S	4--Jh	4-2NJ	4-461	SM16	dDw
5 nesFT	Jh72	4-0hS	42h-J	4-64-	4-4J6	1MSJ	dDw
5 nDDr p	6-72	6N142	6040h	6N6hJ	6N1S6	SMMh	dDw
&EwDpnwcmb	1J671	1-h0NJ	1-h20S	14S10-	1-h04-	SM12	dDw
&EwDpnwcmb	1J672	J00-0	JN4J4	J0242	J0N11	1MSJ	dDw
Fpecmb	16471	116J6N	11h2-4	114h46	116h16	1MMJ	dDw
Fpecmb	16472	404-N	404S1	461-6	46hh2	1MMN	dDw
HsonPCcmb	16S71	122h1-	11NhJ4	11h441	12S4-6	1M0h	dDw
HsonPCcmb	16S72	JN1--	J60N0	J6N00	J0266	1M11	dDw
y nPb cmb	16J71	1SSJhN26	1SS06S1J	hN210SS	hhNJN40	1M4-	dDw
y nPb cmb	16J72	422116h	42h-N0-	4241-00	42J214S	SMMN	dDw
tCocmb	11J71	01206J6	02S21JJ	0--N6S4	0222NSJ	1M4N	dDw
tCocmb	11J72	h0J624	h06J1S	h6N01h	h0-61N	SM44	dDw
tpnC	J472	-1-JN2N	-141J11	-11S4SN	-12h24h	SM-	dDw
tpnC	J672	J01-2S-h	JJ6-2102	JJhh1S6J	J62J10Jh	1Mh	dDw
tpnC	J072	140h6JJ	1404042	14J240-	146NhJ0	SMh	dDw
KpEDTnC	N-71	420	466	421	4-N	JM6	dDw
Lr so	2S671	-21-61	-24-0S	-2-JJS	-2-Sh4	SM4N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU14	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:40:JJ	&sTsUdP usb r:	S46q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20S2hN	20- J- J	26N66S	20SN- 1	SM12	dDw
Lr so	2SN71	12N0N44	12N6J2h	12N222S	12NJJ- 1	SM4-	dDw
LdTGmb	671	2J- 2N- 6	2J6h210	2J6N0hS	2JJ6h4N	SMM2	dDw
9 sgOr wcmb	2472	6J042J	64- JNh	64- S0-	64NS2h	1M46	dDw
9 sOgsOr wr	JJ72	1SJ1S12	1S- 6141	1S4NhN2	1S4J- 0N	SM00	dDw
9 nPEeor Cmb	h471	1- N4h	14141	14S16	14SS2	1NSJ	dDw
9 nPEeor Cmb	hJ71	N211	00h4	N1S-	NS- 6	2M0h	dDw
9 nPEeor Cmb	h671	1S1S4	hN2h	1S10h	1SS- 0	1MM4	dDw
9 nPEeor Cmb	h071	401N	JS- 4	JSSh	4h2S	- MN	dDw
9 nPEeor Cmb	hN71	1- S1J	1- NS0	12hN2	1- 26N	- M2	dDw
u r noEb cmb	1JS71	2- h126	2- h- N1	2- J- - 4	2- 0h40	SM1J	dDw
u r noEb cmb	1JS72	02666	046J0	02J22	0- 2N1	1M0-	dDw
u cdkr P	6S72	2- N6S	22h- 2	220N2	2- 1h1	2M2	dDw
8 GhwDGhpmw	- 172	- J10	- 660	- 2JS	- 40N	6NS0	dDw
8 nTswwcmb	- h72	JS2S4h	4Nh626	4N- N- -	4h1N- 6	1MNh	dDw
. Ghocmb	1S- 71	0S6J102	014Sh6S	0SN0S6-	0Sh00- 2	SMJ	dDw
. Ghocmb	1S- 72	- 2N2JN1	- 260- 01	- 2N61N0	- 20N01-	SMS	dDw
l dsCocmb	4J71	46h4JJJ	406NJNN	464J644	40S2h2h	1M2	dDw
l dsCocmb	4J72	1J16SN	14hhN2	14hhSN	1JS4hh	SM04	dDw
l r P Cmb	N271	22h	1N1	160	1h2	16M0S	dDw
l r P Cmb	0072	26-	200	210	2J2	12M4h	dDw
l r P Cmb	0N72	2S4	1N0	2SN	2SS	JMN	dDw
l dcdnC	2N71	1J- 6242-	1J6- 0JJ0	1JS1- S1-	1J- - 0664	2NS4	dDw
l dPr p	1S071	1NJS	10JS	1Jh2	10- 1	0M-	dDw
l dPr p	1Sh71	2S2J	1JSS	1h10	1N14	1JM2N	dDw
l nocmb	2- 72	40- 20	46hJh	46- 66	46NN4	1NS-	dDw
l TpnCTcmb	N671	116- 2-	110224	11- 40N	11J60J	1M0h	dDw
l TpnCTcmb	NN71	hh404h	1SS6226	1SSS- N1	1SSS4J2	SMI0	dDw
l mPmp	- 471	26S2- 2	2J66h6	2J- 01J	2J6NN1	1M20	dDw
Ar pecmb	1Jh71	1SS6h0J0	1S- h2ShN	1SS0J6JS	1S10h16N	1MM1	dDw
Ar pecmb	1Jh72	42J2h04	4140- N0	41JS161	41N- JS0	1M44	dDw
AGsPbmb	2S- 71	- - Sh	- 626	- - S1	- 412	JM4-	dDw
AGsPbmb	2SJ71	04- 6	04N6	N16h	06h0	JM-	dDw
AdC	11N71	16hN6	164J2	102hJ	16h11	2M2	dDw
AdsCcmb	4071	2- 0S6N	24S- - 2	2- 6N16	2- NS02	SMM2	dDw
RpsCcmb	2- N71	66606	0S120	01J61	6h4JJ	- M02	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 446712	tOwTpmb Or Tu sb r:	8N
5 Rr CTI sb DP t&:	9 y SU14	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:40:JJ	&sTsUdP u sb r:	S46q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	JhhNJ	JNNJS	JNJhh	Jh14J	1M2J	dDw
YTTr pe omb	10271	- 00h6	- h260	- NJ6J	- NJ4-	1M11	dDw
YTTr pe omb	10272	1N01h	1h4- 0	1hSJN	1hS01	1MMN	dDw
YTTr pe omb	10671	24h66	26S- J	2J6N4	2JJ62	2M1-	dDw
YTTr pe omb	10672	220Jh	2- S- 0	22h4-	22h1-	SM62	dDw
YTTpomb	Nh71	14- 2J062	14J0h- h2	1JSSJJhh	146- 6h1N	2MJ	dDw
YTTpomb	Nh72	1J4J622	1JJ4662	1JSNh4N	1J- 6411	1MN	dDw
ZdCd	6672	JhJhN	JhJJN	JhJhN	JhJNJ	SM34	dDw
ZqpdnComb	hS71	26- SS	26Jh-	2661N	26JS4	SM60	dDw
ZqpdnComb	h171	6S1N	JNh-	JNS1	JhS4	1MM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Cr Tusb r:	8 N
5 Rr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 r sC	58l . l &	RCdTw
qPmb cCcmb	2072	Nh- JNh	NNSh41	N0- 6NJ	NN20- N	1M14	dDw
qCTb nCE	12171	126hN	1- 2J0	12J64	12N4S	2NM6	dDw
qpwr Ccd	0J72	0SSJ	0SJ2	6NNN	6hN2	1M21	dDw
Bspcmb	1- J71	0N1h6-	00J6- 1	001212	00626N	SM0S	dDw
Bspcmb	1- 071	1- 0- S0J	1- 040- 1	1- 0- 62h	1- 0- N11	SMS6	dDw
Br pEPRcmb	h71	4J24	4- hS	4666	4J20	- MSJ	dDw
Bcwb mTG	2Sh71	6h- 6h6h	601JJ4N	6N041J2	6N4222-	1M00	dDw
Bcwb mTG	2Sh72	- 26N0Jh	- 264462	- 26- 1N1	- 26J460	SMSh	dDw
Bpmb cCr	N171	0400	N- 44	061h	0N14	JMMJ	dDw
5 sob cmb	1SN71	42J	4SN	410	410	2MSS	dDw
5 sob cmb	1S671	4h- 4	40- 4	4206	464N	0M26	dDw
5 sob cmb	11171	4N26	J2SJ	4hJ-	4hhJ	- MM6	dDw
5 sPlcmb	4- 71	0S- 0NJ	0SN4hS	012N22	0SN- 66	SM04	dDw
5 sPlcmb	4471	11h1- JNh	11h00h1S	12SJ0440	11hN2hN2	SM0S	dDw
5 spenC	1271	6126hhh	62002S0	6- 10- SN	624SJSJ	1M01	dDw
5 spenC	1272	06NS1	0JNNN	00- 2S	0660S	SMMJ	dDw
5 GPhpcCr	- J71	214NN010	2JS1J41J	201SN4- 1	24J- 0J21	11MM0	dDw
5 GPhpcCr	- J72	2Sh0SJ	21404-	21JN2J	21- 424	1MM-	dDw
5 Gpmb cmb	J272	J4014	JJ10h	J- 014	J4J- 6	1MM0	dDw
5 nesPT	Jh72	- JN42	- 4Nh6	- J20S	- J- - 6	1MMJ	dDw
5 nDDr p	6- 72	21N1- 0	214640	21J24-	216SSh	SMM6	dDw
&EwDpnwcmb	1J671	6421-	6J4J-	66N4-	6JJS-	2MS1	dDw
&EwDpnwcmb	1J672	20- 2N	260- 4	26N- S	26h64	1MMN	dDw
Fpecmb	16471	4NJ6J	JS201	4Nh04	4h20S	1MM1	dDw
Fpecmb	16472	2SS- 2	1hh2N	1h00N	1hh1-	SM04	dDw
HsonPCcmb	16S71	J611h	J6- - 0	J04SS	J661N	1M21	dDw
HsonPCcmb	16S72	20SS0	261- 2	26J2-	26JJ4	1M0J	dDw
y nPb cmb	16J71	h4N4N6N	hNJSNh-	hNJ6hJ-	h0- ShSJ	2MMh	dDw
y nPb cmb	16J72	420hS00	4160- S6	424J4S4	42- SJh6	1MM6	dDw
tCocmb	11J71	6h4- 4J6	02Sh2- N	02hJ621	014h4- N	2MM0	dDw
tCocmb	11J72	hhS1N2	hN6464	hN41S-	hN6h16	SMM1	dDw
tpnC	J472	2J044Nh	2J- 42- S	2J2h14S	2J4JhJ-	SMMN	dDw
tpnC	J672	46hS60hJ	4J112h22	40102hh1	46- h0J0S	2MM1	dDw
tpnC	J072	11S6SJ1	11S- 22S	1ShN6Jh	11S264-	SMM4	dDw
KpEDTnC	N- 71	- 2J	- 1h	- 11	- 1N	2MM6	dDw
Lr so	2S671	- - JN- 10	- 261S66	- 2- N0J1	- 2N6S4J	1MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 44671-	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU20	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 14:JS:J4	&sTsUdP usb r:	S40q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	20N2Sh0	20S6J11	20S6NSJ	20- 1NS4	1Mlh	dDw
Lr so	2SN71	12NSN601	12JhS- 11	12J64- 2h	126J44- 0	1N36	dDw
LdTGcmb	671	24J1- 61	2J4S46-	2J- 1160	2JS066-	1M1J	dDw
9 sgOr wcmb	2472	h4hS1N	h- 4hS0	h24S64	h- Jhh6	1M4	dDw
9 sOgsOr wr	JJ72	hN6- 0S	h0N6S4	h66h1-	h002h6	1N3S	dDw
9 nPEeor Ocmb	h471	21SJS	2214-	21642	21612	2Ml-	dDw
9 nPEeor Ocmb	hJ71	1SNh6	1S0S4	111- S	1Sh1S	1M1J	dDw
9 nPEeor Ocmb	h671	14116	1- h41	14SN2	14S46	SM06	dDw
9 nPEeor Ocmb	h071	66NJ	6420	6- h-	6JS2	2M46	dDw
9 nPEeor Ocmb	hN71	102hJ	1060S	10h0h	1064N	1M14	dDw
u r noEb ocmb	1JS71	11- 42h	1124N0	11- 114	11- S1S	SM42	dDw
u r noEb ocmb	1JS72	- 464N	- JJh0	- 464J	- 4h6-	1Ml0	dDw
u cdkr P	6S72	2SNS2	2SSS1	1hhh4	2S266	2M2h	dDw
8 GhwDGhpmw	- 172	6- 6S	641S	64S2	6- hS	SM42	dDw
8 nTswwcmb	- h72	44J4S-	4- 06SS	444- 6N	4424J0	SM16	dDw
. Ghocmb	1S- 71	01S60h0	02S4J0h	0Sh6N0S	01- 6SN2	SMM-	dDw
. Ghocmb	1S- 72	- 2SNN42	- - SJJ1S	- 2J4- 4h	- 2J62- -	1M4h	dDw
I dsCocmb	4J71	4J0J0h-	4JJ4NJ-	40S- N46	46114h0	1M0J	dDw
I dsCocmb	4J72	1404hh	1J24- S	140h- S	14h2N6	1MM-	dDw
I r PCcmb	N271	1h6	1N0	2- S	2SJ	1SM10	dDw
I r PCcmb	0072	1- -	120	1- S	1- S	2Ml0	dDw
I r PCcmb	0N72	1Sh	1SN	11-	11S	2M41	dDw
I dPdnC	2N71	14S66N0N	1- hSJ0N4	14Sh1- J4	14S21- - h	SM02	dDw
I dPr p	1S071	N- 11	N411	N- S-	N- 42	SM02	dDw
I dPr p	1Sh71	0000	N4J-	0N6h	NS- -	4Ml6	dDw
I nocmb	2- 72	1- 0002	1- h142	1- N- 6S	1- N42J	SMS	dDw
I TpnCTcmb	N671	J46J2-	JJ2- J4	J44- 2J	J400- 4	SM06	dDw
I TpnCTcmb	NN71	400JN- 6	4h- 1hN-	4h2112S	4N06- 1-	1M0h	dDw
I mPmp	- 471	- 11hhS	- 2S4- J	- 21h26	- 1N110	1M6N	dDw
Ar pecmb	1Jh71	hh2060S	1S12- NN2	1S1S- 646	1SSJ10- -	1N30	dDw
Ar pecmb	1Jh72	42S- hS-	4S6hN- 1	42Jh6J-	41000h6	2M4	dDw
AGsPcmb	2S- 71	2J- 4	2- 2J	22SS	2- J-	0M16	dDw
AGsPcmb	2SJ71	J406	J2J1	J1Jh	J2h6	- N3N	dDw
AdC	11N71	Jh0hN	6ShS-	620S2	611- J	2M4S	dDw
AdSCcmb	4071	- 46J0J	- JS0Nh	- JS21N	- 4h1h4	SM0J	dDw
RpsCcmb	2- N71	J0SS-	Jh1NS	JNhh0	JN- h-	2N30	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DPP t&:	3 - 44671-	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DPP t&:	9 y SU20	&dPnTcnC UsdTnp:	1
&sTi i Adb r qdOmpro:	2S2- 7S0712 14:JS:J4	&sTsUdP u sb r:	S40q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	0- J- 1	020J0	01- JS	02J46	1Ml2	dDw
YTTr pe omb	10271	14NJS	1J6NJ	1J226	1J2J4	2N04	dDw
YTTr pe omb	10272	0J1h	0- 04	0- h0	04- S	1N8J	dDw
YTTr pe omb	10671	111NN	11SSJ	110- 1	11- SN	- M4	dDw
YTTr pe omb	10672	1J106	1JJhN	1J6N0	1J4N0	1N00	dDw
YTTpomb	Nh71	1- 6hh46S	14S04- 0S	1- N- S- 0N	1- N6NS6h	1M0	dDw
YTTpomb	Nh72	142hh4N	1441- 0J	14J4N41	1442SJ4	SNM6	dDw
ZdCd	6672	2004N1	204hhS	26h2S-	20- Nh2	1MJ	dDw
ZqpdnComb	hS71	41SJ-	4S10J	412S4	4SN11	1M6	dDw
ZqpdnComb	h171	h412	h6NN	N661	h2J4	JN04	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&biqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	2072	uJ2u44	u444aS	u46J11	u40a4a	SR31	Ol l
d. iqe C. E	12171	J1J1	JS26	461u	4a- 2	JR36	Ol l
dll p. qO	0J72	02JS	0S40	010S	01J6	1R42	Ol l
Bwldpe	1- J71	6S406a	61462S	6S1J42	6S6a00	1R12	Ol l
Bwldpe	1- 071	1S6a4- 1	1S6u6- 0	1S4aJ01	1S62J46	1RS6	Ol l
BplE&dpe	a71	- J4a	- 6- 1	- 60S	- 610	1R01	Ol l
Bdqe biG	2Sa71	66uaJa2	6aJ41u0	600uSJ1	6uS0200	1Rau	Ol l
Bdqe biG	2Sa72	- - - 6a41	- 2SaJuJ	- 200402	- 204666	1RaJ	Ol l
BlOe q p	u171	a24J	a2- 0	a22S	a2- 4	SR14	Ol l
9 wne dpe	1Su71	2J4	2- -	1a2	226	14RS6	Ol l
9 wne dpe	1S671	41a2	4406	- a60	4212	6RSJ	Ol l
9 wne dpe	11171	- S10	2aJJ	2a- u	2a0S	1R a	Ol l
9 w&Odpe	4- 71	4Ja2- 0	46J4- u	4Jaa- a	461J- u	SR04	Ol l
9 w&Odpe	4471	0u412au	0u46121	0664Ju2	00u4SSS	1R -	Ol l
9 wlr C.	1271	- 61a266	- 06u12-	- 02146J	- 0S2aJ1	2RS6	Ol l
9 wlr C.	1272	44406	44044	46- aa	4J2S6	2R S	Ol l
9 G&Clq p	- J71	214- J6aS	2J22- - 66	20Sa60Su	24JuJ2JJ	11R0-	Ol l
9 G&Clq p	- J72	21S0a4	21Ja1S	22S0- 1	21Ju12	2R S	Ol l
9 GlOe dpe	J272	462a1	46144	46J62	46- - -	SR46	Ol l
9 Or w8	Ja72	44a2u	44ua1	4JSu4	44a6u	SR2-	Ol l
9 Ot t pl	6- 72	166061	164121	16J04a	16JJ44	SRuS	Ol l
TEl t lOl dpe	1J671	u0J11	u014-	u42S0	u62u0	2R1S	Ol l
TEl t lOl dpe	1J672	- 6J- 0	- JaSJ	- 644S	- 62a4	SRa4	Ol l
Ulr dpe	16471	66Ja2	66J06	60421	66u6-	SR02	Ol l
Ulr dpe	16472	26a04	26J60	20S4u	26u6-	SRa6	Ol l
HwnO&q dpe	16S71	064J-	0u- 14	0u1- S	006- 2	1R 2	Ol l
HwnO&q dpe	16S72	- Ju2J	- 626-	- 60J1	- 620a	1R2u	Ol l
h O&e dpe	16J71	aJSuaSu	au- J411	a0uuS0J	a01S0au	1Ru2	Ol l
h O&e dpe	16J72	420J- 6J	4210202	41S- a60	41auu6u	2RSu	Ol l
& ndpe	11J71	0S- 2466	012S64J	0S61a1a	0S01600	SR6-	Ol l
& ndpe	11J72	auJ1- 4	a0u11a	a0164S	a0u2a0	SR6a	Ol l
&C.	J472	- SS122S	2aJaJu4	- S- 661-	2aaa1- a	1R2a	Ol l
&C.	J672	J- 0J24aS	J2a0- 646	J44Sa0- J	J- 011aJ0	1R 4	Ol l
&C.	J072	1- u114J	12u16uu	1- S1aa6	1- 216Sa	- Rau	Ol l
KlEt iC.	u- 71	- 14	- - 6	- 2a	- 26	- R31	Ol l
Lpwn	2S671	11Sau2S	11SJ200	1S0u4uS	1Sa0uJa	1R34	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	&l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T&piqC. MwOlCl :	1
Twip A cqe p d Qobdqpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	a2SSu6	a1a02-	a1416-	a10aa1	SR 6	Ol l
Lpwn	2Su71	4JuSaJ4	4J- 064J	4JS002u	4J421Sa	SRu1	Ol l
LqjGqpe	671	24- 1S26	261Suaa	262JJ16	2JJJu14	4R24	Ol l
y wg. pl qpe	2472	aSJJS1	ua6- u0	ua- JJu	uau4u2	SR6a	Ol l
y w. gw. pl p	JJ72	a4a1a4	a- 4140	a4a- J-	a442- 1	SRa2	Ol l
y O&Er np. be	a471	1u- J4	1u4S4	10a2a	1u22a	1R4-	Ol l
y O&Er np. be	aJ71	1S- 62	aaa6	1SSS4	1S121	2RS0	Ol l
y O&Er np. be	a671	1204u	12a4S	1- SaS	12a26	1R -	Ol l
y O&Er np. be	a071	JuuJ	6SJ1	Ja4-	Ja6S	1R42	Ol l
y O&Er np. be	au71	1J4S1	1616u	1JS- 4	1JJ- 4	- R0-	Ol l
mpOnEe qpe	1JS71	1J- u- S	1JJS40	1JS1- a	1J- SSJ	1R60	Ol l
mpOnEe qpe	1JS72	40- 00	466JJ	4JuJ1	4662u	1R64	Ol l
mqOkp8	6S72	20a6u	20a01	2u- 6u	2u1S2	SRu2	Ol l
NGOl t GOlbl	- 172	4142	44a2	42- 4	42aS	4R2-	Ol l
NOiwl l qpe	- a72	46060a	40204J	40S- 0-	40S266	SR14	Ol l
F GOnqpe	1S- 71	6a6S40J	0S644J-	0Su014u	0S- 0- Ja	SRa6	Ol l
F GOnqpe	1S- 72	- 24u1- 6	- 21- 210	- 2S10J-	- 221S- J	SR0J	Ol l
DOw. nqpe	4J71	46Saaa6	4064616	461uJJ0	4664- ua	1Ru6	Ol l
DOw. nqpe	4J72	1J2SuS	1JS14a	14a6Ju	1JS62a	SRuJ	Ol l
Dp&p. qpe	u271	2JJ	101	104	2SS	2- Ru2	Ol l
Dp&p. qpe	0072	1- S	10S	1J-	1J1	1- R S	Ol l
Dp&p. qpe	0u72	1- u	111	120	12J	1SRu-	Ol l
Dq&qOC.	2u71	14- - 2- u6	14J2S- 4-	1462u1u2	144a- 6- 0	1RS-	Ol l
Dq&vpl	1S071	4a26	J4S1	J4a-	J20-	JR00	Ol l
Dq&vpl	1Sa71	J1S1	4626	J- 4-	JS2-	0R26	Ol l
DOnqpe	2- 72	u402a	u664a	uJuS2	uJ026	1R12	Ol l
DilC. iqpe	u671	- 6120S	- 6402-	- 6- 06a	- 6- 2J4	SR4a	Ol l
DilC. iqpe	uu71	- - S61- a	- 2a4u- 1	- - 1a0a6	- - S6a22	SR u	Ol l
Db&bl	- 471	2u0444	2ua- 04	2a1aaS	2ua6S2	SR0a	Ol l
cplr qpe	1Ja71	aa- J0Ju	1SSJaS4S	1SSau224	1SS- 1SS0	SRuJ	Ol l
cplr qpe	1Ja72	41S4JS-	4142- J1	4S0a- S2	41Su01a	SR00	Ol l
cGw&qpe	2S- 71	- 1Ja	2042	26- 4	2u4J	aR0J	Ol l
cGw&qpe	2SJ71	6ua4	606S	6a1a	6uJu	1R24	Ol l
cq	11u71	- a4- -	- au- 4	4S1Sa	- a0a2	SRu6	Ol l
cqjw. qpe	4071	11- uJ1	112Ju2	11- - 40	11- 26S	SR16	Ol l
5 lw. qpe	2- u71	J121-	JSJJa	J21- -	J1- S1	1Ru4	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl :	LB1264S0	3 t plwiCl :	swl Pw8
Lwr Dwe t &p &T :	3 - 446714	& l ilbe . pi mwe p :	Nu
9 &p. i Dwe t &p &T :	y h SM2u	T &piqC. MwOlCl :	1
Twip A cqe p d Qobdpn :	2S2- 7S0712 14:J- :4a	TwiwMd&p mwe p :	S4ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	J172	aS242	a1621	uu6u-	aS1u2	1R6-	Qtl
Yiiplr dpe	10271	1aJ0-	2S124	2S- u-	2SS20	2RS6	Qtl
Yiiplr dpe	10272	1S16S	aa6J	a6- 1	aa1a	2R6a	Qtl
Yiiplr dpe	10671	1420J	14S66	141SS	14140	SR0a	Qtl
Yiiplr dpe	10672	10- SS	16uJS	104S1	101u4	1R01	Qtl
Yiildpe	ua71	1- 02J42a	1- J64042	1- aS01J-	1- 0- 2441	1R2J	Qtl
Yiildpe	ua72	14622- J	1446uSa	14Jaa20	14J6- 24	SR10	Qtl
Zq O	6672	aaJS-	a01JS	aau0a	auu44	1R1S	Qtl
ZdqOC. dpe	aS71	- 2uaS	- - J66	- 2- uu	- 2a4u	1R0a	Qtl
ZdqOC. dpe	a171	026S	066a	0u6a	0Jaa	4RSu	Qtl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTl wb D8 :t&:J	y h SM2.	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cOmb	2072	04626S	0- 0026	0- a1Sa	04S6. a	SR6	dDl
qCTb nCE	12171	24 S	21. 2	2242	22.	R.0	dDl
qpl r Ccl	0 72	2- . 1	2- 1a	22a4	2- - 1	2R	dDl
Bwpcmb	1- 71	- a S41	- a00S-	- a4- 0	- a 0S0	SR46	dDl
Bwpcmb	1- 071	6a4a4a	6a4- 01	60- 1a2	6aSaSS	SR.0	dDl
Br pE8mb	. 71	- S66	- 1S2	- SS4	- S 0	1R6-	dDl
Bdl b mTG	2S. 71	6. S- - . 1	60S0406	6. - 24- 4	6a40060	1R0.	dDl
Bdl b mTG	2S. 72	- 2 S- 6a	- 2S4. -	- 16 S	- 2S6. 0	1R.2	dDl
Bpmb cOr	a171	6a6.	60a	6a6.	6a41	SR0S	dDl
9 wob cmb	1Sa71	1SS	12	1- -	11.	14R -	dDl
9 wob cmb	1S671	41S1	4a1a	4126	4- 4a	. R6	dDl
9 wob cmb	11171	14 0	16- 6	1 - 6	1 4-	Ra2	dDl
9 w8lcmb	4- 71	214 20	21- a2S	212 2a	21- 62	SR40	dDl
9 w8lcmb	4471	- 06a1S	- 61116S	- 661S 4	- 6aS1S6	2R1a	dDl
9 wpenC	1271	- aaa022	- a6240-	- . - S0 2	- a. - . a2	SRaa	dDl
9 wpenC	1272	40. . 6	4a00-	4. 2 S	4a60-	1R.S	dDl
9 G8hpcOr	- 71	22. 022- -	26a142 0	2. 10. a. 6	26- 2212.	11R.S	dDl
9 G8hpcOr	- 72	2261aS	226 . 6	2- 1. aa	22a2	1R42	dDl
9 Gpmb cmb	272	- 14-	- 102	- 1aS2	- 16 4	SR61	dDl
9 new8T	. 72	- 6- 0-	- 4a1	- 6S22	- . .	1R2	dDl
9 nDDr p	6- 72	6011	60004	60- . 6	6042a	SR4.	dDl
&El Dpnl cmb	1 671	a6014	a0 a6	a a4-	a6014	1RS1	dDl
&El Dpnl cmb	1 672	- 0. 44	- a6a	- 02- .	- 0S10	2Ra	dDl
Upecmb	16471	6. - - 2	0S. S0	6a400	6. 02	1R0	dDl
Upecmb	16472	2a16-	2aaa	2a2a4	2a444	1R.6	dDl
Hwon8Cmb	16S71	aSS66	aS4S1	06621	0. S2.	2R6	dDl
Hwon8Cmb	16S72	- 0aa1	- 02 2	- 06 0	- 0 . 6	SRa	dDl
h n8b cmb	16 71	. a0- 00	. . - 62- 2	. a11016	. a0- . S0	SR6-	dDl
h n8b cmb	16 72	4142aa6	416. 60S	41- S 1S	41406a.	SR4a	dDl
tCocmb	11 71	026SSa-	02a614	01- 1- 64	022 a64	1R1	dDl
tCocmb	11 72	. 0- 24a	. S. 4S	. 60S-	. 6- 041	1R1.	dDl
tpnC	472	22 - 01-	22. S4a2	22a111a	220 1S4	SRa4	dDl
tpnC	672	416aS0S1	411 4006	4S. 4S126	412 a - 4	SR.2	dDl
tpnC	072	1SS0S. a	. 01104	. 0S26S	. a2a44	2R14	dDl
KpEDTnC	a- 71	- 61	- .	- 1S	- 4-	aR42	dDl
Lr wo	2S671	4 Saa2	4 a2- a	4 6. 2	4 - 4a	SRa6	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 44671	tCl Tpmb Cr T.u wb r :J	Na
9 8r CTl wb D8 :t&:.J	y h SM2.	&c8mTcnC:MwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
Lr wo	2S071	- 0- S- 2	- a1244	- a2 16	- 0a. - 1	1R 6	dDI
Lr wo	2Sa71	1001Sa1	10002. 4	10a6. 11	100a42.	SR4	dDI
LcTGmb	671	2 1 S40	2 S. 4a	2 aaS01	2 1-	1R4-	dDI
y wgCr l cmb	2472	6- 4a4	642a. 6	6 10SS	64- - 6S	1R26	dDI
y wCgwCr l r	72	6a16-	. 601	61- aS	6- S01	SRaS	dDI
y n8Eeor Cmb	. 471	121a.	126- 1	120. a	12 - .	2R 1	dDI
y n8Eeor Cmb	. 71	4SS1	44S1	41S1	4160	RSS	dDI
y n8Eeor Cmb	. 671	621a	61a	a1S	6S01	- R04	dDI
y n8Eeor Cmb	. 071	260	24 S	2642	2 a.	4R6.	dDI
y n8Eeor Cmb	. a71	6020	6600	0Sa	6a- S	- R26	dDI
u r noEb cmb	1 S71	16S22	161. 14	1 466-	1 a. - 4	2R .	dDI
u r noEb cmb	1 S72	4. 14S	4a. 06	4. 2 -	4. 12-	SR2a	dDI
u cdkr 8	6S72	2S44	2S -	2S- - a	2S4- .	SR4a	dDI
NGhl DGhpml	- 172	2- 0	2SS.	21 S	210a	aR4.	dDI
NnTwl cmb	- . 72	- a0S2a	- a1S12	- a- . 1	- a- . . 0	SR0a	dDI
F Ghocmb	1S- 71	014S4- S	01SS. 44	0S00aa.	01S6421	SR4	dDI
F Ghocmb	1S- 72	- 22 - 2.	- 2Sa0 4	- 22- 4S4	- 21. 16-	SR2a	dDI
l dwCocmb	4 71	401- S66	461200	46a0-	4601S6	1R12	dDI
l dwCocmb	4 72	14. S11	14- 0a2	14 46	14611-	1Ra2	dDI
l r 8 Ccmb	a271	1-	a	141	12S	2 R6S	dDI
l r 8 Ccmb	0072	1 0	10S	2S-	100	1- R61	dDI
l r 8 Ccmb	0a72	1- 6	126	1- S	1- 1	- Ra	dDI
l c&dnC	2a71	1S. . 022	1124- 1	11- 0a- - 6	112S 0- a	1R0-	dDI
l c&vr p	1S071	42S1	41S1	4- .	422S	- RS.	dDI
l c&vr p	1S. 71	41S1	4142	- . 26	4S 6	2Ra4	dDI
l nocmb	2- 72	4S624	4S2- .	4S. SS	4S aa	SRa2	dDI
l TpnCTcmb	a671	10S4 .	10- 6- 1	10SS4	101- 0a	1R14	dDI
l TpnCTcmb	aa71	1 2. S6-	1 201a6	1 . 6- 24	1 Sa a	2R 4	dDI
l m8mp	- 471	26. 6-	201244	26. a0a	20S2 -	SR 2	dDI
Ar pecmb	1 . 71	1S1- a - -	1SS- S6. .	1S2S4aS0	1S1246aS	SRa0	dDI
Ar pecmb	1 . 72	4S0S2a0	4S1. . 21	- . . 042	4S2a6 S	SR 4	dDI
AGw8cmb	2S- 71	2 10	2 - 4	- 110	202-	12R	dDI
AGw8cmb	2S 71	6 6.	6- 00	6S1a	6- 21	4R42	dDI
AcC	11a71	11 6-	11a14	112- a	11 - a	2R S	dDI
AcTwCcmb	4071	1- S214	12aa2	1- 1. 6-	1- S- - 4	1R21	dDI
5 pwCcmb	2- a71	- 12a.	- S 46	2. 0-	- S 24	2R	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 44671	tCl Tpmb Cr Tu wb r :J	Na
9 8r CTI wb D8 :t&:J	y h SM2.	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:14J 6J4a	&wTwMv8 :u wb r :J	S4. qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	172	6 2-	66011	66216	66S 4	1R14	dDI
YTTr pecmb	10271	21142	2126a	21260	21226	SR 4	dDI
YTTr pecmb	10272	1S6- a	1S14.	1S4aa	1S42	2R4S	dDI
YTTr pecmb	10671	1460	1 - 6a	144 S	14a- 1	- R22	dDI
YTTr pecmb	10672	16. S	10- a4	1004	10- 6S	2R2.	dDI
YTTpcmb	a. 71	14S2SS2.	141 S .	1416- Sa4	14112024	SR 0	dDI
YTTpcmb	a. 72	146S612	1424122	1- 2SSS	141224	- R 1	dDI
ZcCd	6672	4- 46-	4- 10	4- 26-	4- - SS	SR 4	dDI
ZqpdnCcmb	. S71	20461	2a246	2a- 2.	2aS12	1R01	dDI
ZqpdnCcmb	. 171	64a	6400	aa	62a2	R4a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:dQobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqI
d8be qFqpe	20 2	2S7J114	2SJ661y	2S61717	2SJ1S1J	SU6u	Qt l
dFiqe . Fh	121 1	2Juu246	26uyu7y	267y244	267y11S	1Uy2	Qt l
dIl pFqO	0J 2	66041	661yu	60S1J	666J1	SU62	Qt l
Bwlqpe	17J 1	2u2y46u	2u00S60	2y1Sy7S	2u024uu	1U42	Qt l
Bwlqpe	170 1	4uy6u00	J17J121	J1Juu2J	JS676Su	2Uu6	Qt l
Bplh8qpe	y 1	6120yJ	62J7y0	6261J1	62144u	1U21	Qt l
Bqe biE	2Sy 1	62271uS	61140u6	6SJuu4y	6172201	1U76	Qt l
Bqe biE	2Sy 2	2yS1J76	2u7u606	2y2u146	2uuy4J7	1UJy	Qt l
Bl. e qFp	u1 1	42S1	7y60	7uSy	7yy2	4Uy4	Qt l
3 wne qpe	1Su 1	J1u64	J1u14	J2SJ6	J1y11	SU2J	Qt l
3 wne qpe	1S6 1	024S0	061y4	07yJu	041u6	2UJ0	Qt l
3 wne qpe	111 1	6167u1	67S6u1	67Su6S	62Jy04	1U77	Qt l
3 w8Qqpe	47 1	76J4S60	70uu2u6	70JS0yy	7071SJ1	1Uu6	Qt l
3 w8Qqpe	44 1	Juy44247	617J4676	Jy270u12	Jyu4JJ64	2U2S	Qt l
3 wlr . F	12 1	26420yJ	2020742	20u0S4u	201yS62	2U60	Qt l
3 wlr . F	12 2	76S11	7u67J	70y66	70J70	7U67	Qt l
3 E8 lqFp	7J 1	2244647	22460uJ	2140uuy	22171S6	2UJJ	Qt l
3 E8 lqFp	7J 2	14y2J	141u2	17Ju2	1427S	4U07	Qt l
3 El. e qpe	J2 2	0124y7	0127y0	0SJ714	01SS6u	SUJu	Qt l
3 . r w8	Jy 2	12uSySu	12641y7	120210y	1202420	SU66	Qt l
3 . t t pl	67 2	117S02Ju	1Su6u060	11Sy60J2	11SySy26	1Uyu	Qt l
Thl t l. l qpe	1J6 1	010	660	0JS	011	JUyS	Qt l
Thl t l. l qpe	1J6 2	777	2u0	76S	720	11U76	Qt l
Glr qpe	164 1	142	2Su	1y2	1u1	1yU22	Qt l
Glr qpe	164 2	u0	J0	00	07	2SUu7	Qt l
Hwn. 8qFqpe	16S 1	Jy2	u2J	610	60u	1uUyS	Qt l
Hwn. 8qFqpe	16S 2	JS0	46S	7u0	4J1	17U41	Qt l
K. &e qpe	16J 1	yS2J01S	y1y607S	y1J241J	y124yJ1	SUy0	Qt l
K. &e qpe	16J 2	4S1SJ70	4SS170J	7y41y1J	7yu46Sy	SUy4	Qt l
&Fnqpe	11J 1	67S1y6y	67yy1JJ	67uu72J	67671JS	SUu4	Qt l
&Fnqpe	11J 2	uuS4Jy	u0J6u7	u0yuu6	u0u606	SU7S	Qt l
&. F	J4 2	uJyJ6y1	u1yS674	u1y6S2u	u7204J1	2U0y	Qt l
&. F	J6 2	1J2S11642	1JSS40026	14yuJu10S	1JS67y10y	SU0y	Qt l
&. F	J0 2	7y4u0uy	7u2u2Ju	7u72S61	7u6y0S7	1U00	Qt l
glht i. F	u7 1	21S	2S0	20S	22y	1JU44	Qt l
Lpwn	2S6 1	1210Su1J	126uSyJJ	12JSJJ7S	124J2477	2USu	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 3 - S24	&Fl ilbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T:a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
Lpwn	2S0 1	1SJ77SJS	11S1SSSu	1SuSSJSS	1S0u11u6	2U22	Ot l
Lpwn	2Su 1	4uu2166S	JS04421y	4yu60y72	4yu1120S	1Uy7	Ot l
LqiEdqe	6 1	22S1160	27S2474	22100J6	224S4J2	2U42	Ot l
5 wkFpl qe	24 2	2u777S16	2u7u22y2	2uJy702S	2u476747	SU4y	Ot l
5 wFkwFpl p	JJ 2	7uyu4S0	7u1117J	70640y0	7u2400y	1U00	Ot l
5 . 8hr npFbe	y4 1	yJ12711	y0S7740	y6210J2	y61240S	1USS	Ot l
5 . 8hr npFbe	yJ 1	170ySSu1	14114247	14S1uSyJ	17y0417y	1U1y	Ot l
5 . 8hr npFbe	y6 1	1J2SJyy1	1J711616	1J272yy0	1J2JS2S1	SU76	Ot l
5 . 8hr npFbe	y0 1	u7y1444	u6Ju22u	u647yS7	uJ64J2J	1U0J	Ot l
5 . 8hr npFbe	yu 1	210S0JJy	22u646y2	27146S02	22J02004	7U7u	Ot l
mp. nhe qpe	1JS 1	7SS	2u0	1uS	2J6	2JU04	Ot l
mp. nhe qpe	1JS 2	6S	67	70	J7	20U24	Ot l
mqOvp8	6S 2	7JS146	7427u4	74J47u	74JyyS	1U17	Ot l
NE. l t E. Ibl	71 2	1y0u1	2Sy04	1y014	2S1J6	7UJ2	Ot l
N. iwl l qpe	7y 2	uyy0y17	uuu06yJ	u6uyJu1	uuJu7y6	1U06	Ot l
9 E. nqpe	1S7 1	6S417y4	61y2J00	61J77yy	612y127	1U2u	Ot l
9 E. nqpe	1S7 2	20uy002	2uSyy0S	2u61706	2u2S707	1U71	Ot l
DOwFnqpe	4J 1	4Syu262	4271220	4SJJS00	412u1uy	2U22	Ot l
DOwFnqpe	4J 2	1760yu	17J062	174u67	17JuSu	SU01	Ot l
Dp8pFqpe	u2 1	4J40u	46y1u	4616u	461uu	1UJ6	Ot l
Dp8pFqpe	00 2	1417	176S	1JS7	1426	JUSu	Ot l
Dp8pFqpe	0u 2	4027	4012	4u6S	406J	1U07	Ot l
Dq8Q F	2u 1	202S2202	2u7S6y04	2u11J762	20u04u6y	2U12	Ot l
Dq8pl	1S0 1	7742uuS	7761u7J	7746264	77JS726	SU7S	Ot l
Dq8pl	1Sy 1	72S7y42	7107404	722J6Jy	72S1S2J	SUu2	Ot l
D. nqpe	27 2	JS0yS64J	JS2uJ460	JS1212yS	JS7yy174	SU6y	Ot l
Dil. Fiqpe	u6 1	1uuJuu7J	1y202S22	1u04y40u	1uy6S112	1U4J	Ot l
Dil. Fiqpe	uu 1	161uuy404	16yS2440J	1642777u7	16JS4y111	2U2S	Ot l
Db8Vl	74 1	J4uu42	JJ1S0u	J4uS76	J4y71y	SU2y	Ot l
cplr qpe	1Jy 1	y2Ju4y2	y7J77y0	y7664uy	y726126	SU67	Ot l
cplr qpe	1Jy 2	7uySu60	7uS6y0y	7y46u10	7uu1JJ4	1Uu1	Ot l
cEw8qpe	2S7 1	2y77uJy	2y6Jyu0	2yuJ60y	2y61u42	SUuu	Ot l
cEw8qpe	2SJ 1	0Sy1uSu	011477y	0S10222	0S044J6	SU02	Ot l
cqF	11u 1	217S670	22171yu	2144766	2162074	2USJ	Ot l
cqwFqpe	40 1	76u626J	7u766u0	70266S7	704yuJ1	2USu	Ot l
RlwFqpe	27u 1	1SJy2661	1S66uu1u	1S0S6Ju0	1S6J6S22	SUJ4	Ot l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	Ct plwi. I:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 3 - S24	&Fl iIbe Fpi:mwe p:a	Nu
3 8pFi:Dwe t 8p:&T :a	3 3 - S24	Tq8piq F:MwO. I:a	1
Twip:A:cqe p:d Qobdpn:a	2S27 S0 12:1JaSJa24	TwiwMq8p:mwe p:a	SJ23 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND7	3 ND5 pwF	3 ND9 DT	RFqil
- wFwndpe	J1 2	JJu46u	J40616	JJJ2S2	JJ7062	1US1	Qt l
Yiiplr dpe	102 1	210	2y2	10J	22u	2JUy6	Qt l
Yiiplr dpe	102 2	1S6	0u	111	yu	1uU1y	Qt l
Yiiplr dpe	106 1	17472	14177	170J0	17004	2UJJ	Qt l
Yiiplr dpe	106 2	1J706	1J7y2	1J672	1J460	SUy7	Qt l
Yiildpe	uy 1	11J44206	1107y7J4	110u7J14	116uyS4u	1USy	Qt l
Yiildpe	uy 2	12S1J7J	11uSuSJ	11yu7yy	11y7JuS	SUy4	Qt l
ZqFO	66 2	12uSJJJ	12Ju17S	126u6u0	126y124	SUuu	Qt l
ZqQ Fdpe	yS 1	446y701	44yS1S7	4674660	4J717u1	1Uyy	Qt l
ZqQ Fdpe	y1 1	y07yy2	yuS4u4	yyy1u0	yu4JJ4	1U77	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
q8mb c mb	2072	14:	242	- S0	2- 2	- : U 1	dDl
q. Tb C. y	12171	11: a	14h2	16- -	142a	10U$a	dDl
qpl r . cl	0: 72	6	1-	12	1S	- 6U64	dDl
Bwpcmb	1- : 71	- Sa	- : S	142	260	41U 4	dDl
Bwpcmb	1- 071	: - -	: 60	- 42	4a1	2: U20	dDl
Br py8&mb	h71	101	164	116	1: S	1hUa-	dDl
Bdl b mTE	2Sh71	6: - aS6-	62h6a44	641S06h	641: 22:	1Uaa	dDl
Bdl b mTE	2Sh72	- Shh12-	- S66264	- Sa- a40	- Sa- S0a	SU -	dDl
BpCb c r	a171	- 610	- 0- 4	- ah2	- 04a	- U6a	dDl
3 wob cmb	1Sa71	- -	21	- -	2h	24U0:	dDl
3 wob cmb	1S671	- 460	- 460	- a: 1	- : h:	6U16	dDl
3 wob cmb	11171	46:	404	4- -	4: 0	4U0:	dDl
3 w8lcmb	4- 71	6: 4	0ah	41:	61h	- SU 0	dDl
3 w8lcmb	4471	42aS0	42h- a	- 0h0S	412- a	6Ua6	dDl
3 wpeC.	1271	222S0S0	21a: - S6	21ah4- h	21ha4a4	SUaa	dDl
3 wpeC.	1272	26016	26S24	20S10	26: a6	1Uh2	dDl
3 E8Cpc r	- : 71	102S: : h	1664- S6	1612101	166: 60h	- U2:	dDl
3 E8Cpc r	- : 72	11SS4	1S: 46	1S446	1S66:	2U0h	dDl
3 EpCb cmb	: 272	111S	1100	1110	11- :	- U24	dDl
3 Cew8T	: h72	- 0	14S	140	1Sa	: 0U22	dDl
3 CDDr p	6- 72	1h0-	2444	2: 40	2- 21	1- U10	dDl
&yl DpCl cmb	1: 671	a	a	10	11	4- U 4	dDl
&yl DpCl cmb	1: 672	0	S	S	2	10- U21	dDl
Fpecmb	16471	: a	: a	2:	40	4SU0:	dDl
Fpecmb	16472	2S	2-	2-	22	aU6:	dDl
GwoC8c mb	16S71	h2	a-	0:	a-	1SU$S	dDl
GwoC8c mb	16S72	hS	1: S	1S0	116	26UaS	dDl
HC8b cmb	16: 71	h1S06a4	h- - h: : 1	ah- Sh11	h126S4h	2U2:	dDl
HC8b cmb	16: 72	- h4h11h	- hh6- 14	- ha1Sh-	- h0: : Sh	SU61	dDl
t. ocmb	11: 71	601a204	6: : 4224	6: 1- 66a	6: h: - ah	1U64	dDl
t. ocmb	11: 72	h140h6	h- - 12h	h20: : a	h2: 161	1U$2	dDl
tpC.	: 472	: 60	hS6	ha-	a1h	20U$0	dDl
tpC.	: 672	0Sh1	12- 00	14a00	1144h	- 4U02	dDl
tpC.	: 072	2ah	- : 6	410	- : 4	1aU$0	dDl
KpyDTC.	a- 71	2- h	201	2: :	2: :	6U 0	dDl
Lr wo	2S671	260a	26- 4	2- SS	2: - 0	aU14	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wo D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wo D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Lr wo	2S071	2: 11	2- 2-	1011	21a2	1hU10	dDl
Lr wo	2Sa71	11S14	1S042	h1- 1	1S2h:	hUah	dDl
LdEmb	671	22: S- h2	2- 16a22	22a0S06	22a406-	1U46	dDl
5 wg. r l mb	2472	: 0:	1: Sh	24a4	1: 2-	62U6h	dDl
5 w. gw. r l r	: : 72	11S	24S	4: -	26a	64U04	dDl
5 C8yeor . mb	h471	1hSS	1h10	16SS	1aS6	hUa0	dDl
5 C8yeor . mb	h: 71	- 4Sh	4Saa	2S2:	- 104	- - U12	dDl
5 C8yeor . mb	h671	- 206	- 242	22Sh	2hSh	2SUa:	dDl
5 C8yeor . mb	h071	1: 60	14a-	1- 10	14: 6	aU0:	dDl
5 C8yeor . mb	ha71	446a	: S1h	- S42	4106	24U42	dDl
ur Coyb mb	1: S71	0	2S	20	1a	: 0U20	dDl
ur Coyb mb	1: S72	-	S	-	2	a6U6S	dDl
ud kr 8	6S72	4S	6S	0-	: a	2hUS4	dDl
NEC DECpm	- 172	12:	2: S	242	2S6	- 4USS	dDl
NCTwl mb	- h72	1- 4- 1	1- - 6:	1- 14S	1- - 12	1U1:	dDl
9 ECo mb	1S- 71	6: 422: 2	66: a142	6: S16- 6	6: 60- 4-	1U24	dDl
9 ECo mb	1S- 72	- S- a2S0	- 1aaS1-	- S1142a	- S0h216	- USh	dDl
l dw. o mb	4: 71	4S2: h41	4S6- 0Sa	41- 1: 1S	4S0- 02S	1U- 1	dDl
l dw. o mb	4: 72	1- : : a4	1- 442h	1- 64S1	1- : 401	SU0-	dDl
l r 8 . mb	a271	71-	741	14	71-	72S6U- 2	dDl
l r 8 . mb	0072	S	S	S	S	SUSS	dDl
l r 8 . mb	0a72	2-	22	16	2S	1aU62	dDl
l 8dC.	2a71	1ha21h	1hS4: h	1ah22:	1h26- 4	2U-	dDl
l 8vr p	1S071	4- -	- - -	- 60	- 0a	1- U4a	dDl
l 8vr p	1Sh71	- 42	- 60	- Sa	- - h	aU64	dDl
l Co mb	2- 72	40haS	4h2h6	4a0a2	4a6a6	1U- 6	dDl
l TpC. Tmb	a671	242:	24: h	14: h	2114	26Ua0	dDl
l TpC. Tmb	aa71	2120-	1: 641	h: : S	1: 4aa	- 0Ua:	dDl
l m8mp	- 471	2h44: a	2h42h6	2h666a	2h: 14S	SU4:	dDl
Ar pe mb	1: h71	h- 1: 42a	h202S: :	h14- 4: h	h24- 640	SUh0	dDl
Ar pe mb	1: h72	- 00- aS-	- aa2: a2	- h24a46	- a6S41S	2USS2	dDl
AEw8mb	2S- 71	2S60	1hSh	14- -	1aS-	1aU2h	dDl
AEw8mb	2S: 71	- ha4	4Sh-	- 410	- a- 1	hU40	dDl
Ac	11a71	- a6h	142:	142:	224S	6- USS	dDl
AdTw. mb	4071	a0:	0a-	410	6h2	- : USS0	dDl
Rpw. mb	2- a71	1S- -	1: 10	00:	11Sh	- - Uha	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	n Dr pwTCpJ	swl Pw8
Lwe l wb D8 t& J	3 3 BS24	t. l Tpmb . r Tu wb r J	Na
3 8r . Tl wb D8 t& J	3 3 BS24	&8mTC. MwdTCpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: JSaJ10	&wTwMv8 u wb r J	S: - 3 3 BFlb

NwpwbrTrp	5 wl l	3 Nl 1	3 Nl 2	3 Nl -	3 Nl 5 r w.	3 Nl 9 l &	R. dT
Vw. wocmb	: 172	- -	40	h-	: a	: 4U-	dDl
YTrpecmb	10271	42	: S	: a	: S	16U60	dDl
YTrpecmb	10272	- h	10	2a	2a	- hUhh	dDl
YTrpecmb	10671	11h2	1- : a	1S2:	11h2	1- Uhh	dDl
YTrpecmb	10672	h: 4a	1S6hh	1S- 01	1S2S6	: Ua1	dDl
YTpcmb	ah71	11hSh: h0	11a2hhh-	11h126ah	11aa4Sh-	SUh	dDl
YTpcmb	ah72	12S40a-	122hah0	1220aa1	122Sa: 4	1U14	dDl
Zc d	6672	16-	1h0	26-	2Sa	24U1	dDl
ZqpdC. cmb	hS71	h0:	1S10	0- -	hSa	16Ua4	dDl
ZqpdC. cmb	h171	142	210	160	10:	21Ua2	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTmC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCcmb	2072	a: 2611	a4aS6-	a- ah16	a46: - S	SMd2	dDl
qCTb nCE	12171	4406	: 426	40: h	4aa0	hMla	dDl
qpl r Ccl	0: 72	2SS2	2S0-	1hah	2S22	2M24	dDl
Bwpcmb	1- : 71	41212h	4Sa141	41611-	41212a	SM10	dDl
Bwpcmb	1- 071	0- : - h2	0224Sh	0- : 402	0- 1Sh1	1M8-	dDl
Br pE8mb	h71	- 6hS	- 04S	- a2a	- 0: -	1Md:	dDl
Bdl b mTG	2Sh71	60aha- 0	662S- 26	6- aah00	6: hh01-	- M8:	dDl
Bdl b mTG	2Sh72	- S62: - h	- S6S: Sa	- 1224a1	- Sa1a4-	1M14	dDl
Bpmb cCr	a171	h4S-	111- S	1Sa21	1S4: 1	aMd1	dDl
5 wob cmb	1Sa71	1Sa	1S4	h2	1S1	aM16	dDl
5 wob cmb	1S671	42Sh	- h- 4	4SSh	4S: 1	- M11	dDl
5 wob cmb	11171	1S62	1S: S	h0S	1S20	4Md:	dDl
5 w8lcmb	4- 71	- 1: 26S	- 1a- 6-	- 1a: 4:	- 10- ah	SMla	dDl
5 w8lcmb	4471	: 24S- a4	: - 12S: 2	: - 06: 20	: - Sh6: 4	1M2a	dDl
5 wpenC	1271	2h644: 0	2ha0: hh	2h: 2h40	2h6a- - 4	SMlh	dDl
5 wpenC	1272	- 6112	- 0- hS	- 0Sa1	- 6a61	1Md1	dDl
5 G8hpcCr	- : 71	112- 6- - 0	146- 44- 2	10- 14461	14- h: S00	21M16	dDl
5 G8hpcCr	- : 72	1: : 664	1620a-	16: : 64	161- - 0	- M16	dDl
5 Gpmb cmb	: 272	4141S	41- 6S	4S6S4	4112:	1M1S	dDl
5 new8T	: h72	- a0- 6	- 061-	- aS- 4	- a12a	1M4h	dDl
5 nDDr p	6- 72	: 026a	: 6S- 4	: : : aa	: 62h0	1M:	dDl
&El Dpnl cmb	1: 671	1S4: 1:	1S: 222	1Sa: a2	1S61S6	2M8:	dDl
&El Dpnl cmb	1: 672	462hS	44a- a	4: 41S	4: : 1-	1M01	dDl
Fpecmb	16471	a: - 24	a0462	a64S:	a6- h0	1M24	dDl
Fpecmb	16472	- : 2- S	- 40- 2	- 4- : a	- 400-	1M26	dDl
Hwon8Ccmb	16S71	hh02-	hhh16	hh- : 2	hh664	SM2h	dDl
Hwon8Ccmb	16S72	46h66	46a- 2	46- 44	46014	SM0S	dDl
y n8b cmb	16: 71	h646: S1	h: 2- 10h	h2S: 412	h4: a- 64	2M41	dDl
y n8b cmb	16: 72	- ha64- 2	4S: 0aS6	4S0: 6: S	4S- hh62	1M10	dDl
tCocmb	11: 71	0SSh- : -	6a12040	6- a46h6	60- : : hh	4M04	dDl
tCocmb	11: 72	h1: - 6a	h26441	h- 4046	h2: : 1a	1M8:	dDl
tpnC	: 472	244a: 0-	24S4- 06	2- : 44- 2	24S2461	1M16	dDl
tpnC	: 672	4- 6h: 1- S	4- 261aa0	4- 1a: h4-	4- - aSha0	SM0-	dDl
tpnC	: 072	1S- a221	1S4S: 12	1S2: 1aa	1S- 4641	SMdS	dDl
KpEDTnC	a- 71	- 61	- - h	- - 6	- 4:	- Mlh	dDl
Lr wo	2S671	1h: aa4	1hh- : 4	1h: 12-	1h60a0	1Ml:	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- S	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdCmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S071	1: 0hSa	1: 0062	1: 6SSh	1: 0226	SM60	dDl
Lr wo	2Sa71	0: 1aa-	0: 0hhh	0: S201	0: - - a4	SM14	dDl
LdTGmb	671	240: - ah	2- 00- ha	2- 64- 1:	24S: 0S1	2M12	dDl
9 wgCr l cmb	2472	6S1a0S	: h1- : 0	: a0- 1a	: h- : 1:	1M20	dDl
9 wCgwCr l r	: : 72	: 1000h	: Sh: : 4	4h00h4	: Sa- 06	1M1a	dDl
9 n8Eeor Cmb	h471	11h- S	12Sh0	1260-	122- -	- M1a	dDl
9 n8Eeor Cmb	h: 71	- 0h2	- 6Sh	- h10	- 00-	4M11	dDl
9 n8Eeor Cmb	h671	616a	6Sa:	: h26	6S6S	2M8-	dDl
9 n8Eeor Cmb	h071	22: S	26a4	2- h2	2442	hM8:	dDl
9 n8Eeor Cmb	ha71	6220	60S2	0h2a	6h: 2	12M0-	dDl
u r noEb cmb	1: S71	1h0: 02	2S2244	2S21S6	2SS641	1M-	dDl
u r noEb cmb	1: S72	62Sa0	6S462	6Sh: a	6116h	1M6	dDl
u cdkr 8	6S72	2- 44-	22ha:	22a62	2- Sh0	1M-	dDl
NGhl DGhpml	- 172	12a-	1460	11a-	1- 11	1SM16	dDl
NnTwl cmb	- h72	- 2a041	- - 1Sh6	- 20h2:	- 2h2: 4	SMS	dDl
. Ghocmb	1S- 71	60a21aS	60S6- S6	64- 0- - 2	6641h- h	2M0-	dDl
. Ghocmb	1S- 72	2hhS0h2	- 1S12: 2	- 1- haa1	- S00- Sa	2M1	dDl
l dwCocmb	4: 71	4: 11h4h	44- h- 62	420- - a0	44Sa2- -	2M00	dDl
l dwCocmb	4: 72	1- h2a2	142664	1- h4a6	14S400	1M:	dDl
l r 8 Ccmb	a271	110	1: 6	1- 4	1- 6	14M-	dDl
l r 8 Ccmb	0072	21S	2S-	21S	2Sa	1M4:	dDl
l r 8 Ccmb	0a72	10:	16h	144	16-	1SM11	dDl
l 8dnC	2a71	144: - a26	14: : hh20	144S2S- a	14401h- 1	SM6	dDl
l 8vr p	1S071	1- 60	1- 0:	1- Sa	1- : S	2M0h	dDl
l 8vr p	1Sh71	10: h	110:	1- h2	1442	2SM46	dDl
l nocmb	2- 72	: h2S0	: : - h0	: 6061	: 0122	- M1a	dDl
l TpnCTcmb	a671	14210h	14: 141	146S: 2	1444: 0	1M4S	dDl
l TpnCTcmb	aa71	12- : 16-	120a01h	1261h46	12: a6Sh	1M0:	dDl
l m8mp	- 471	2h: 0- 2	2aa: 12	2a4S6S	2ah4- :	2M84	dDl
Ar pecmb	1: h71	hhh- 111	h06hSa4	h4- S22:	h0- SaS6	2M11	dDl
Ar pecmb	1: h72	- h144Sa	4S: 22h4	4SS0- - S	- hh1- 44	1M06	dDl
AGw8cmb	2S- 71	4206	4- h-	4- 1a	4- 2h	1M0	dDl
AGw8cmb	2S: 71	1S- 6-	1S: S:	1S2S4	1S- : 0	1M4:	dDl
AdC	11a71	1S046	1Sh46	1S601	1S0aa	1M2	dDl
AdTwCcmb	4071	1S0- a:	1S- 6: 0	1S41: 4	1S: S6:	1M1-	dDl
RpwCcmb	2- a71	2h01h	- SS61	- Sa- S	- S2S-	1M4a	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446716	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- S	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J11J1a	&wTwUd8 u wb r J	S: 4q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	0S0h4	01S1:	6h- 0S	0S- h-	1M20	dDl
YTTr peomb	10271	26h2S	202h:	260a6	20SSS	SM1a	dDl
YTTr peomb	10272	1262-	12: - h	120a4	1264h	SM1a	dDl
YTTr peomb	10671	1a1: :	1a0ah	1h- hS	1a00a	- M2h	dDl
YTTr peomb	10672	1a: aS	1a2- :	1h2h2	1a0S2	2M1a	dDl
YTTpomb	ah71	1- 6ahhS4	1- : 4S26h	12hha2: 0	1- 4Sh400	2M01	dDl
YTTpomb	ah72	14SS1- h	1424aa6	14S626a	141S4- 1	SM11	dDl
ZdCd	6672	2haa:	2h4ha	2h: 20	2h6- 0	SM0-	dDl
ZqpdnComb	hS71	266- 4	20ah:	2aS0h	20: - 6	2M46	dDl
ZqpdnComb	h171	64: 2	6420	6- a:	6421	SM12	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&c8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUc8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
q8mb cCcmb	2072	- 66h01	- 01: 4:	- 6a44S	- 6aha:	SM0-	dDl
qCTb nCE	12171	4S42	42h2	4: 1a	42a4	: M:	dDl
qpl r Ccl	0: 72	1- a4	141-	1: S4	14- 4	4M0	dDl
Bwpcmb	1- : 71	26Sa6-	26412:	2: a4S:	2611- 1	1M1S	dDl
Bwpcmb	1- 071	4: 2aSS	40- Sa0	46h: Sh	46: 1- 2	2M-	dDl
Br pE8cmb	h71	21SS	2S00	2Sh4	2ShS	SM6	dDl
Bcl b mTG	2Sh71	60: 11- a	6a6h- S:	66hhSh1	600- 10a	1M2h	dDl
Bcl b mTG	2Sh72	- 11h- S0	- 1464: S	- 241S2:	- 16ah2a	2M82	dDl
Bpmb cCr	a171	601a	6: 4-	6400	6: 0h	1M1S	dDl
5 wob cmb	1Sa71	110	1- a	101	142	1hM2h	dDl
5 wob cmb	1S671	4S42	- 026	41a4	- ha4	: M4h	dDl
5 wob cmb	11171	2100	2S: 1	2S61	2Sh0	- M-	dDl
5 w8lcmb	4- 71	1Sa6aS	111a6-	112SS4	11Sa4h	1M0S	dDl
5 w8lcmb	4471	1hS2: 12	1h4Sh6:	1h- - 4h:	1h2: 6: 0	1M86	dDl
5 wpenC	1271	400ah62	: S: - - - h	: 2Sa411	: S1- : 01	4M4	dDl
5 wpenC	1272	6- 0aS	62006	62: 42	6- S- 2	1M84	dDl
5 G8hpcCr	- : 71	100S- 60S	21ah2- S:	2- hSa6: -	2116a2Sh	14M1:	dDl
5 G8hpcCr	- : 72	1h2: 1a	2S24- 4	2S: a22	2SS2: a	- M4:	dDl
5 Gpmb cmb	: 272	22S44	22S1S	22- - 1	2212a	SM4S	dDl
5 new8T	: h72	1a14a	1hSaS	1h1h-	1aaS0	- M8:	dDl
5 nDDr p	6- 72	a0126	a6046	aaSS1	a02h1	SM04	dDl
&El Dpnl cmb	1: 671	: 41h4	: : : 66	: 6: 4:	: : 4- :	2M1-	dDl
&El Dpnl cmb	1: 672	2- S60	2- h6:	2461h	2- aa4	- M26	dDl
Fpecmb	16471	- h6a:	4S20S	4SS11	- hhah	SM0-	dDl
Fpecmb	16472	10S6a	16a14	10- 02	10Sa4	1M6-	dDl
Hwon8Ccmb	16S71	4a- - S	4h- a4	: S10a	4h2h0	1M4a	dDl
Hwon8Ccmb	16S72	2- : : a	2- : 61	2- 04a	2- 622	SM46	dDl
y n8b cmb	16: 71	h: - 6haS	h61a24a	h44SS6:	h: - 1064	SM14	dDl
y n8b cmb	16: 72	4S42- a2	414S: 00	42S604-	412hhS1	2M8S	dDl
tCocmb	11: 71	66aa: 6-	6a04S42	6a1a2ha	60h- 6- 4	1M4S	dDl
tCocmb	11: 72	h2ha1h	h4a- : :	h0S: h:	h4h: hS	2M1:	dDl
tpnC	: 472	11: 2a0a	1144444	1101h1h	11: 6414	1M22	dDl
tpnC	: 672	21ah- - a2	224S0624	22612: - 0	22- S4: 1:	1M66	dDl
tpnC	: 072	: 2- - SS	: 204- 1	: 2a- 2:	: 26- : 2	SM1	dDl
KpEDTnC	a- 71	2h1	2h4	- 1h	- S1	: M8:	dDl
Lr wo	2S671	01: 6h0	020616	02S: 44	0212a6	SM4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTl wb D8 t& J	9 y SU- 1	&c8mTcnC UwdTnpJ	1
&wTr i Acb r qdCmpr o J	2S2- 7S0712 1: J14J1a	&wTwUc8 u wb r J	S: : q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S071	: hS46:	61h062	61Sh4S	6S0S: 6	2M4a	dDl
Lr wo	2Sa71	2aS- : 06	- S1S02S	2a6622a	2ah- : Sa	- M60	dDl
LcTGmb	671	2404S0:	24: Sa01	244S0h2	24: : 246	SM0S	dDl
9 wgCr l cmb	2472	24h: a1	24h11-	2: 1200	24hhhS	SM46	dDl
9 wCgwCr l r	: : 72	- 4: h62	- : 1242	- : 4416	- : S: 4S	1M22	dDl
9 n8Eeor Cmb	h471	ha62	1S221	h00h	hh: 4	2M6	dDl
9 n8Eeor Cmb	h: 71	- 060	- hSh	41Sh	- h2a	4M0	dDl
9 n8Eeor Cmb	h671	: : S1	: h1a	: 6- :	: 6a:	- M0:	dDl
9 n8Eeor Cmb	h071	2- - 4	2: 0:	2: : h	24ah	: M42	dDl
9 n8Eeor Cmb	ha71	6S: 2	6- - :	62S2	61h6	2M2h	dDl
u r noEb cmb	1: S71	hh6a2	1S264-	1S14a0	1S1201	1M40	dDl
u r noEb cmb	1: S72	- 1: 2S	- Sh- 2	- 2S12	- 14aa	1M02	dDl
u cdkr 8	6S72	0a42	066h	06: 2	0021	1M6	dDl
NGhl DGhpml	- 172	41- 4	4: 06	4- : 1	4- : 4	: M80	dDl
NnTwl cmb	- h72	2022- -	20aah2	2a2400	200a6a	1M40	dDl
. Ghocmb	1S- 71	6a: h42-	6h21: S2	6h- 26h6	6hS4: 41	SM0	dDl
. Ghocmb	1S- 72	- 1- 1- : 0	- 1- 424:	- 116210	- 12020-	SM1	dDl
l dwCocmb	4: 71	4- h1: - 1	4444: 4S	4- hhh: 2	4412SSa	SM0:	dDl
l dwCocmb	4: 72	14SS2a	144SS:	14: 2a0	14- 1S0	1M12	dDl
l r 8 Ccmb	a271	1SS	h1	116	1S2	12M0	dDl
l r 8 Ccmb	0072	1S-	11S	h0	1S-	6M4:	dDl
l r 8 Ccmb	0a72	0S	00	h1	0h	1- M4a	dDl
l c8dnC	2a71	1S6h11Sh	1Shaa262	1Sh46122	1Sa0: 164	1M4a	dDl
l c8vr p	1S071	4160	- h10	4- Sh	41- 1	4M4S	dDl
l c8vr p	1Sh71	- h: h	4- : 1	41Sh	414S	4M0a	dDl
l nocmb	2- 72	: : - h0	: 4h12	: ah01	: 6420	- M4-	dDl
l TpnCTcmb	a671	14h444	1: : 6hh	1: 0101	1: 41S4	2M06	dDl
l TpnCTcmb	aa71	1- 120a0	14S160-	142S6: -	1- 0a- 01	4M4a	dDl
l m8mp	- 471	2h- 0: S	2a: 42h	2aa- 61	2ah1aS	1M46	dDl
Ar pecmb	1: h71	h02h: 0-	h6- 1h4a	h66- S64	h604a62	SM2	dDl
Ar pecmb	1: h72	- hS0: 1S	- hS04- 0	4S1: 66h	- h4- : - h	1M4a	dDl
AGw8cmb	2S- 71	21a4	22Sh	210:	21ah	SM0h	dDl
AGw8cmb	2S: 71	4hh-	: Sh-	4hS1	4hh6	1M12	dDl
AcC	11a71	2Sa: S	2Sha-	22S- :	212ah	- M8:	dDl
AcTwCcmb	4071	1S- 4a1	1Sa044	1S062S	1S661:	2M0S	dDl
RpwCcmb	2- a71	: - SS-	: 210:	: - 60-	: 2h: S	1M42	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe l wb D8 t& J	3 - 446710	tCl Tpmb Cr Tu wb r J	Na
5 8r CTI wb D8 t& J	9 y SU- 1	&8mTcnC UwdTnpJ	1
&wTr i Adb r qdOmpr o J	2S2- 7S0712 1: J14J1a	&wTwUd8 u wb r J	S: : q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	: 172	- 1h0h	- 1441	- 1a46	- 10: :	SMda	dDl
YTTr peomb	10271	1ShS:	112- S	11S40	11S6S	1M40	dDl
YTTr peomb	10272	: 4hS	: 44S	: 6S1	: : 11	1MMS	dDl
YTTr peomb	10671	a: h:	a42a	0h: -	a- 2:	4M8S	dDl
YTTr peomb	10672	1- ah6	14Sh0	14- - 6	1411S	1M16	dDl
YTTpomb	ah71	12a: S044	120ah62a	12h00: a4	12a026: 2	SM04	dDl
YTTpomb	ah72	1204hah	12h6442	1- 24S02	12ha: S1	1Mdh	dDl
ZdCd	6672	: hS16	: h: - 1	6S104	: h: 04	SMM0	dDl
ZqpdnComb	hS71	2S104	22- 44	2S- : 0	2Sh: a	: M04	dDl
ZqpdnComb	h171	44a4	40S1	: 1Sh	406:	6M06	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tu wb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2072	2J1J0	2JSJ-	2J10JS	2J12	SM26	dDl
qCTb nCh	12171	- 2SS	- 242	- 6JE	- - 60	0M-	dDl
qpl r Ccl	0J72	116J	11E6	11 S	11 1	1M1	dDl
Bwpcmb	1- J71	16 - 4E	10240J	10S6	10SJS4	1M21	dDl
Bwpcmb	1- 071	2E E-	- SSJJ0	- SSES1	- SS1- 2	SMJ	dDl
Br ph8mb	E71	162E	1006	16E4	16EE	4MJ	dDl
Bdl b mTG	2SE71	664460E	6 J 1 4	6 J61- 2	60 6- - 2	1M1	dDl
Bdl b mTG	2SE72	- 224- - S	- 10JE1	- 220 J	- 2SE- 6E	SMES	dDl
Bpmb cCr	171	J2- 4	J4J1	JE J	JJJ0	6MEJ	dDl
5 wob cmb	1S 71	01	121	E2	E4	26M0S	dDl
5 wob cmb	1S671	4226	4S06	- 26	4S42	JM8S	dDl
5 wob cmb	11171	1JJ6	164	164	1610	- M26	dDl
5 w8lcmb	4- 71	JE- 0E	JE -	JE- S4	JEJS0	SM4E	dDl
5 w8lcmb	4471	E 0240	1S1S JS	1SS- - 41	1SSS40E	1M21	dDl
5 wpenC	1271	2EES 2	- S0 6 6	- S6422-	- S44J0E	1MJ	dDl
5 wpenC	1272	- 02 1	- 0- S6	- 6E E	- 01E2	SM40	dDl
5 G8hpCr	- J71	2S004- 1E	2J1- - 0S6	2012661E	24- 44 1	1- M4	dDl
5 G8hpCr	- J72	21S 1S	21JJ02	22S4- -	21J6SJ	2M4-	dDl
5 Gpmb cmb	J272	1 S6	1 2J2	1 16	1 624	1M0-	dDl
5 new8T	JE72	16- 0-	1J JE	1J J6	16S2E	1M6	dDl
5 nDDr p	6- 72	JE0EE	J 6E	JE1S6	JE2S1	SME4	dDl
&hl Dpnl cmb	1J671	4ES41	4ES 2	4E1E1	4E1SJ	SM16	dDl
&hl Dpnl cmb	1J672	2S462	1EJ-	2S22E	2SS06	2MIE	dDl
Fpecmb	16471	- - E20	- 4 - S	- 4 S	- 4J46	1MJ	dDl
Fpecmb	16472	1- J60	14111	1- EE4	1- E1	2M86	dDl
Hwon8Ccmb	16S71	42J20	42- 6S	4- S4J	42644	SM4	dDl
Hwon8Ccmb	16S72	2S- S2	1EE12	2S1EE	2S1-	1M8S	dDl
y n8b cmb	16J71	E- - 2 4S	E- J- 226	E4J2602	E- 0EJ0E	SM0	dDl
y n8b cmb	16J72	416S6SS	4SS1JSJ	411ES21	4SE- 0SE	2M82	dDl
tCocmb	11J71	60EJJ4J	6EJ62J	6 0 160	6 066J0	1M10	dDl
tCocmb	11J72	E0E E-	E- 62- S	E4E- - 4	EJJ1J2	2MJ	dDl
tpnC	J472	J- JS6	4112E	- JES6	4- J1-	1M80	dDl
tpnC	J672	16- - 044-	16- 06614	164- JS4	16- - S- J	SMS	dDl
tpnC	J072	- EEJ1	- J0 6	- E6S0	- 44	SM0S	dDl
KphDTnC	- 71	- S2	- SJ	2E4	- SS	1ME0	dDl
Lr wo	2S671	41E- 1-	42426S	41E41	42SEE0	SM00	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:l wb D8 :t&:a	3 - 44671	tCl Tpmb Cr Tuwb r :a	N
5 8r CTl wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdCmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :uwb r :a	SJ6q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S071	- 40S- 1	- J6SJ2	- J12SJ	- J142E	1M2	dDl
Lr wo	2S 71	164S224	1604- - 6	16JSJ0	16JJS46	1M36	dDl
LdTGmb	671	241E2EE	2404262	2J4JS4-	240EJ- J	2M4	dDl
9 wgCr l mb	2472	1J6SS6	1J 4JJ	1J0SJ0	1J0102	SM0	dDl
9 wCgwCr l r	JJ72	- J1S1	- 4E 2J	- 4ES2J	- 4EEJ6	SM2E	dDl
9 n8heor Cmb	E471	01J2	0200	6 J	01SJ	2M2	dDl
9 n8heor Cmb	EJ71	- 6J1	- 2E2	- S- 4	- - 26	EM2	dDl
9 n8heor Cmb	E671	464-	4J- 4	46S1	4JE-	1M1E	dDl
9 n8heor Cmb	E071	22E2	21JS	21JE	22SS	- M61	dDl
9 n8heor Cmb	E 71	J6- J	J- J1	J26	J41	- MJ	dDl
ur nohb cmb	1JS71	1E4	E1121	EE26	E040	1M64	dDl
ur nohb cmb	1JS72	20 JE	20- 61	20201	204E0	1M1J	dDl
ucdkr 8	6S72	J 21	6S4J	J E	JE21	1M42	dDl
NGhl DGhpml	- 172	1ESE	2242	2210	2122	M0J	dDl
NnTwl l mb	- E72	1JESS4	16S14	161- 0-	16S10J	SM04	dDl
. Ghocmb	1S- 71	6 441J6	6 611- J	6 0JE2-	6 6S4SJ	SM4-	dDl
. Ghocmb	1S- 72	- 20S4 0	- 10S 4-	- 2SS61J	- 21- E 2	1M1E	dDl
l dwCocmb	4J71	4- J66J	44S - 0-	44- 101-	44S J -	SM2	dDl
l dwCocmb	4J72	14J- - 2	14- 211	1441S	144210	SM04	dDl
l r 8 Cmb	271	4J	02	J4	J0	24M02	dDl
l r 8 Cmb	0072	E-	1S-	1S0	1S1	6M0	dDl
l r 8 Cmb	0 72		00	0-	0E	EM0E	dDl
l d8dnC	2 71	1S- 441	1S622J2J	1S- 6E01E	1S4J 0	1M6	dDl
l d8vr p	1S071	2660	24SE	2610	2J64	JM4	dDl
l d8vr p	1SE71	2S 4	1 JE	22JE	2S60	EM0S	dDl
l nocmb	2- 72	J2S00	J1JJS	J1 - S	J1 1E	SM1	dDl
l TpmCTcmb	671	62SS	S- 6	J- 2E	6J22	1M0S	dDl
l TpmCTcmb	71	02 - E-	0J- - J	0- 6SS	04S110	1M0S	dDl
l m8mp	- 471	2010ES	20- 6	20244E	2020S	SME	dDl
Ar pecmb	1JE71	E- - EJS	E 414 0	E 24JJ1	E6 - - - S	2M0	dDl
Ar pecmb	1JE72	4S0S - J	- E12E12	- E- - J14	- E0242S	2M16	dDl
AGw8mb	2S- 71	10SS	1J 4	16J	1640	- ME	dDl
AGw8mb	2SJ71	4S06	4S26	4S42	4S4	SM0-	dDl
AdC	11 71	11- 6-	110E0	12J1J	11 E2	4ME	dDl
AdTwCmb	4071	0E1J2	0EJSJ	000EJ	0 10	1M1J	dDl
RpwCmb	2- 71	- 6 6-	- 06ES	- 6 -	- 01- S	1M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	3 Dr pwTnpa	swl Pw8
Lwe:I wb D8 :t&:a	3 - 44671	tCl Tpmb Cr T:u wb r :a	N
5 8r CTI wb D8 :t&:a	9 y SU- 2	&8mTmC:UwdTnpa	1
&wTr :i :Adb r :qdOmpr o:a	2S2- 7S0712:1Ja10a16	&wTwUd8 :u wb r :a	SJ6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	J172	2JEJ0	2J616	2JJ06	2J010	SM1	dDl
YTTr peomb	10271	2	02	J-	S-	SM0J	dDl
YTTr peomb	10272	- E0-	414S	- E 4	4S- 2	2M1	dDl
YTTr peomb	10671	0J11	0- 20	026E	0- 6E	1M01	dDl
YTTr peomb	10672	1- 41-	12 12	1- 041	1- - 22	- M4	dDl
YTTpomb	E71	126EJ12-	1- SESSE	12E441- 1	12ESE0 4	1MJ	dDl
YTTpomb	E72	1- 22 4J	12 E2SJ	1- S66EE	1- S62JS	1M2E	dDl
ZdCd	6672	- 6J10	- 02J2	- 6SEE	- 662-	1MIE	dDl
ZqpdnComb	ES71	1- 6ES	14141	1- 4J0	1- 06-	2M-	dDl
ZqpdnComb	E171	2E10	- SJE	- 1- 4	- S- 0	- M62	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOICI:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMt8p:mwe p:a	SJ0d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 2014	4 62u6	4u660S	4 1u S	SR	Qt I
d. iqe C. E	12171	222J	2SSS	24- 4	222S	R00	Qt I
dIl p. qO	0J72	10SJ	16- -	162S	16J-	2R00	Qt I
Bwldpe	1- J71	- S4S64	- 22206	- 14- 1S	- 1- JJS	2R 1	Qt I
Bwldpe	1- 071	J- S012	JJJJ- -	JJ- Ju1	J466Su	2R12	Qt I
BplE8dpe	71	- SJ0	- 102	- S01	- 1SS	2RS-	Qt I
Bdqe biG	2S 71	6u6 JS	0SJ 04u	6 4- 011	6 J0uS-	1R u	Qt I
Bdqe biG	2S 72	- 1u J-	- 2J 10	- 1S1- JS	- 1u- - J6	2R4u	Qt I
BlCe q p	u171	J1S1	J46u	J- S1	J2 S	- R40	Qt I
9 wne dpe	1Su71	1- -	1- -	1- -	1- -	SRSS	Qt I
9 wne dpe	1S671	4- 42	4SJ	4SJ1	41J1	4RSS	Qt I
9 wne dpe	11171	1J 1	1- 0J	1J2u	14 u	0R41	Qt I
9 w8Qdpe	4- 71	1 SJ4S	1 2J60	1 - Suu	1 2S6J	SR0S	Qt I
9 w8Qdpe	4471	- 2u 162	- - S2- S6	- - 2- -	- - SJ1- 6	SR1-	Qt I
9 wlr C.	1271	- 4- u0u-	- 4 - S46	- 641uu0	- J24J02	2R u	Qt I
9 wlr C.	1272	44242	4- J S	44 11	4424u	1R4	Qt I
9 G8Clq p	- J71	2Su60224	24626JS2	26021024	24S01u10	12R 2	Qt I
9 G8Clq p	- J72	2S Ju4	21SS	21J1 2	21162J	1R46	Qt I
9 GlCe dpe	J272	2JS4	24 22	2J- u	2J12S	SR 6	Qt I
9 Cr w8	J 72	- 2166	- S- 22	- S 0	- 1162	2R	Qt I
9 Ct t pl	6- 72	0- 1 0	0- - 1J	04S- 2	0- J1J	SR61	Qt I
TEl t ICl dpe	1J671	6 4 1	6uuS-	6 140	6 140	SR1S	Qt I
TEl t ICl dpe	1J672	2u- 20	2u4- 0	2 24J	2u60S	1R0J	Qt I
Ulr dpe	16471	4 - S	4 0S	J12Su	JS162	1R 2	Qt I
Ulr dpe	16472	2S4 2	2S2J2	2S16J	2S- S-	SRu-	Qt I
HwnC8q dpe	16S71	J0 6S	6S 6J	6S1 4	J 0S0	2R61	Qt I
HwnC8q dpe	16S72	2uu41	20	2u26S	2u- 60	1R12	Qt I
h C8e dpe	16J71	u 0- 0	644222	02S2	0J- 60	1R -	Qt I
h C8e dpe	16J72	41J4102	4S u- - -	4S11J- J	4SuuS1-	1R06	Qt I
& ndpe	11J71	6 611J1	0104u- 6	0S2u- Ju	0SJ40u2	1R1J	Qt I
& ndpe	11J72	62J00	60- - 2	42- 42	J0410	1R	Qt I
&C.	J472	10u4S06	1uSSu11	1062- - 4	10u24S0	1RSu	Qt I
&C.	J672	- 266 u- -	- 1uS4214	- 24 S41S	- 2- 214u6	1R41	Qt I
&C.	J072	00SuuJ	04uJ- 6	00S246	06- 222	1R60	Qt I
KIEt iC.	u- 71	- 2J	- 42	2 4	- 2S	0R01	Qt I
Lpwn	2S671	- 62J14	- 0J102	- 6 u 1	- 6 1 2	1R02	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMt8p:mwe p:a	SJ0dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	2 S- 6	- S66u-	- S- u6-	- S- 1 4	1R2u	Q I
Lpwn	2Su71	142SJ20	144426u	14- 0uJ-	14- 4216	SRu6	Q I
LqiGdpe	671	2J16 46	2J6u- 1S	2JS- 46	2J2 0- 4	1R J	Q I
y wg. pl dpe	2472	61uJ 2	61- 0	6S 416	61- - 6	SR0J	Q I
y w. gw. pl p	JJ72	622JSS	62SJ- 0	62J04u	622 2	SR42	Q I
y C8Er np. be	471	12Ju	126-	124 u	12J0J	SR10	Q I
y C8Er np. be	J71	- 610	4S- 4	- J	- u0S	JR04	Q I
y C8Er np. be	671	J4uJ	611u	J uJ	Ju6-	JR0S	Q I
y C8Er np. be	071	2010	22- 4	2J0J	2JS	R 1	Q I
y C8Er np. be	u71	626u	6S20	626S	61uJ	2R22	Q I
mpOnEe dpe	1JS71	12- 06u	12402u	124S42	12410	SR4S	Q I
mpOnEe dpe	1JS72	- 0646	- uS61	- 06-	- 00u2	SR64	Q I
mqDkp8	6S72	14- u1	1- 64S	14S 0	14S-	2R66	Q I
NGOI t GOIbI	- 172	- S42	- S10	2 42	- SSS	1R0-	Q I
NOiwI l dpe	- 72	2 16- 4	2u01S6	2u4SSu	2u0Ju-	1R -	Q I
F GOndpe	1S- 71	0S 622S	0Su22J-	0SJ2- S1	0S06 2J	SR 2	Q I
F GOndpe	1S- 72	- 2J4 0	- 1 uSSu	- 12- 1u-	- 1 2S62	2RS0	Q I
DOw. ndpe	4J71	46J42- -	462 2S	4J0J11	461 J2S	SRu	Q I
DOw. ndpe	4J72	140600	14J 2-	14S201	144624	2R6u	Q I
Dp8p. dpe	u271	1S0	11	1 2	14S	- - RSu	Q I
Dp8p. dpe	0072	1JS	1S0	14S	1- 2	10R16	Q I
Dp8p. dpe	0u72	1	112	6	1SS	11RS1	Q I
Dq8DC.	2u71	11SS4u	1S60SS- u	11100S6u	1S JS66u	2R J	Q I
Dq8vpI	1S071	1410	10Su	160J	16SS	R u	Q I
Dq8vpI	1S 71	14- -	1JJu	1JJS	1J14	4R62	Q I
DOndpe	2- 72	J6- 11	JJ 66	J4J0u	JJ61u	1R6J	Q I
DiIC. idpe	u671	1026S	106uS2	102 S2	1041S4	1R 4	Q I
DiIC. idpe	uu71	1J 4S- 0	1J 4 -	16126J2	16SSJ4-	SR66	Q I
Db8bI	- 471	2uS- 0J	2u- 6S-	2u141S	2u10 6	SRu	Q I
cpIr dpe	1J 71	Su2u0	1SS0u60u	u614u0	4 4u4	1R1J	Q I
cpIr dpe	1J 72	4S S062	416- SSu	- u06 62	4S4- J00	- R6u	Q I
cGw8dpe	2S- 71	2242	22S	2J0J	2- 42	uR66	Q I
cGw8dpe	2SJ71	JuS2	J- 26	J01S	J61-	4R4	Q I
cq	11u71	1J04-	166S2	161- J	1616S	2R66	Q I
cqiw. dpe	4071	002u-	0u4J0	004J1	000- S	SRu2	Q I
5 Iw. dpe	2- u71	01SJS	04646	0- 4uS	0- SJu	2R1	Q I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 44671	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SM- -	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja2Sa1	TwiwMd8p:mwe p:a	SJ0d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	J172	- JSSS	- 4- 4J	- 4 46	- 406-	1R8J	Ol l
Yiiplr dpe	10271	120- 2	1- Su2	1- J 1	1- 1- J	- R2	Ol l
Yiiplr dpe	10272	6- 0	6224	6- 0	6- 2u	1R42	Ol l
Yiiplr dpe	10671	- 2S	1SS0	J12	6- 0	4R8	Ol l
Yiiplr dpe	10672	144 2	1J1u0	14u4u	14u42	2R4	Ol l
Yiildpe	u 71	1- 4 S1JJ	1- 4 4 Ju	1- - 062J	1- 4J- 0 1	SR1S	Ol l
Yiildpe	u 72	1- - - 644	142642	12 6040	1- J220-	4R4	Ol l
Zq O	6672	J 16	J 4J1	6SS4S	J uS2	SR12	Ol l
ZdqOC. dpe	S71	20 2	2uJuS	- SS16	2uu42	- R0S	Ol l
ZdqOC. dpe	171	6420	61- J	6400	6- 46	2R1	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	- 4620N	- 4644h	- 41620	- 440N:	SM0h	dDw
qCTb nCE	12171	4210	4NSh	4: Sh	4: 12	6M6	dDw
qpwr Ccd	0: 72	14h4	14hh	14: 0	14N4	1M:	dDw
Bspcmb	1- : 71	- 2hh6N	- - 264:	- - 4hS1	- - 2: S:	SM04	dDw
Bspcmb	1- 071	: h1S10	: h6: N:	: h42- 4	: h- h4:	SM40	dDw
Br pEPPmb	h71	2S: 6	1h0S	2120	2S: 1	- M:	dDw
Bcwb mTG	2Sh71	6002N- -	6NN62: S	6hSh411	6N: 616:	1M0	dDw
Bcwb mTG	2Sh72	- - 1Sh22	- - 20S26	- - 14026	- - 10: : N	SM:	dDw
Bpmb cCr	N171	: S6N	: 21N	: : 06	: 2N0	4M4	dDw
5 sob cmb	1SN71	146	1: S	11-	1- 6	1: M1S	dDw
5 sob cmb	1S671	41Sh	42S1	42: 1	41N0	1M02	dDw
5 sob cmb	11171	116-	1ShS	1146	11- -	- M0	dDw
5 sPlcmb	4- 71	2h24: S	2h66- 4	2h- 2Nh	2h4124	SM0:	dDw
5 sPlcmb	4471	4h44h1-	: S- - : NN	4hN11: 6	4hN6: : 2	SMh	dDw
5 spenC	1271	20S464N	20- - N04	20- S1- 2	2022NN:	SMN	dDw
5 spenC	1272	- - : 22	- - 014	- - 622	- - 62S	SM2h	dDw
5 GPmpcCr	- : 71	21: 4h4h1	2: 42h444	20264- h-	24040006	11M0h	dDw
5 GPmpcCr	- : 72	21416:	21NhN2	22- 64S	21Nh2h	2M6	dDw
5 Gpmb cmb	: 272	: 6S6-	: 6NN6	: 6N1h	: 6: Nh	SMN1	dDw
5 nesPT	: h72	- 2: S4	- 2N4:	- 1hS6	- 241N	1M40	dDw
5 nDDr p	6- 72	0- : 1-	021hh	02S0h	02: h0	1M1S	dDw
&EwDpnwcmb	1: 671	: 6S26	: 4462	: 46: 4	: : S40	1M:	dDw
&EwDpnwcmb	1: 672	2- 1: -	22Nh6	22606	22hSh	1M4	dDw
Fpecmb	16471	- hh00	- hhh4	- N016	- h: 62	1M:	dDw
Fpecmb	16472	164- 4	16- S-	1622S	16- 1h	SM06	dDw
HsonPCcmb	16S71	4: h- N	40- 00	464: 0	46: h1	1M6	dDw
HsonPCcmb	16S72	221N2	22: S2	2- SSS	22: 61	1M-	dDw
y nPb cmb	16: 71	h6hS: hh	hNh21- 4	h0N2S: 1	h0NN262	1M-	dDw
y nPb cmb	16: 72	42h60h2	41: 1202	422: 2- -	42244- 2	1M02	dDw
tCocmb	11: 71	01: 0406	014: 1S4	016216h	01: 4h10	SM12	dDw
tCocmb	11: 72	hhN4h-	h066hS	hh2S1:	hNhS66	1M-	dDw
tpnC	: 472	1: 20- N1	1: 220: -	1: S1N0S	1: 10- - :	SM1S	dDw
tpnC	: 672	202h04S-	201- hN1h	26h00640	201- N2hS	SMh	dDw
tpnC	: 072	640: : 1	6- 00- h	64- hN0	64- Sh2	SM00	dDw
KpEDTnC	N- 71	2h2	2hS	- 10	- SS	: M0	dDw
Lr so	2S671	0001N6	00N16N	06S0N:	002S46	1M26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU- 4	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP usb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	62S: 0S	620h2:	611NN2	62S126	1M1S	dDw
Lr so	2SN71	- Sh0S21	- Sh2640	- S460NS	- S0NN16	SM1S	dDw
LdTGmb	671	24: - S- S	2: 00hN1	2: 0SN4:	2: - - h: 2	2M00	dDw
9 sgOr wcmb	2472	462N- S	461hS0	46S46S	4610- -	SM26	dDw
9 sOgsOr wr	: : 72	10S: hh0	160S- h2	1642- - 6	1602hSN	1M11	dDw
9 nPEeor Omb	h471	12h0-	120hS	12N4N	12N0S	SM0-	dDw
9 nPEeor Omb	h: 71	0411	6: 6N	01- :	0S- N	6M1S	dDw
9 nPEeor Omb	h671	h20N	h10N	Nh0N	h14:	1M00	dDw
9 nPEeor Omb	h071	4- 60	42: h	46Sh	4412	4M36	dDw
9 nPEeor Omb	hN71	11h- h	110- h	121h0	11h: N	1M12	dDw
u r noEb omb	1: S71	hN- 1h	h0S06	h604N	h0- N1	SMN:	dDw
u r noEb omb	1: S72	- S1h4	- S- N:	2h: 66	- SS4N	1M4-	dDw
u dkr P	6S72	1- 6SS	1- N- 4	1- N44	1- 0: h	1M3S	dDw
8 GhwDGhpmw	- 172	16- -	10h2	16SS	160:	6M11	dDw
8 nTswwcmb	- h72	16hS66	1602h6	1606N4	16NS1:	SM1:	dDw
. Ghocmb	1S- 71	020- N- S	0Sh2h10	021014-	01h46- S	1M2h	dDw
. Ghocmb	1S- 72	- 2h0NSN	- 2Nh4S0	- 2460SS	- 200h02	SMN4	dDw
l ds Coomb	4: 71	40S60: 1	40S1: 44	4: NS466	4662h2S	1M-	dDw
l ds Coomb	4: 72	14N0h:	14h10:	14N- 1S	14N06S	SM2h	dDw
l r P Comb	N271	N6	66	1S:	N6	22MN	dDw
l r P Comb	0072	12S	N0	12-	11S	1NM4-	dDw
l r P Comb	0N72	00	N1	0N	0h	2M6:	dDw
l dPdnC	2N71	11SN: 100	111162S-	11146161	1111: N40	SM20	dDw
l dPr p	1S071	16SN	1h: h	1N60	1N11	1SM32	dDw
l dPr p	1Sh71	16: N	1: 2:	16h2	162:	: M4-	dDw
l noomb	2- 72	06: 4-	0: : 12	0- 02S	0: 2: N	1M1S	dDw
l TpnCTomb	N671	2SS- hN	2SS400	1hhNh2	2SS2: :	SM16	dDw
l TpnCTomb	NN71	1N- 6S- 2	1N6: 2- 0	1N- 12: -	1N44104	1M3S	dDw
l mPmp	- 471	204S- S	2N1S0h	2N462S	20hh1S	1M1-	dDw
Ar pecmb	1: h71	hh0: 61-	1SSS: 6h:	1SS6- : 0-	1SS14h6S	SM4:	dDw
Ar pecmb	1: h72	41- N0h2	411N2SN	410hh0h	414: 66S	SM06	dDw
AGs PRmb	2S- 71	1060	162:	1642	160N	4M02	dDw
AGs PRmb	2S: 71	4160	46S1	4S- 4	426N	6M1:	dDw
AdC	11N71	2SS0-	1hh1:	2S- : N	2S11:	1M11	dDw
AdS Comb	4071	0N: 1:	0N4- 2	00644	0N1h0	SM01	dDw
R ps Comb	2- N71	4S- 6:	4S: - 2	4S26:	4S- N0	SM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 44672S	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU- 4	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J2- J16	&sTsUdP u sb r J	S: Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	- S2S2	- SN- 0	2h: 61	- S2SS	2M11	dDw
YTTr pe omb	10271	11240	11N14	1Sh6-	11- 41	- NM2	dDw
YTTr pe omb	10272	: 21N	: 62h	: 246	: - 64	4M2N	dDw
YTTr pe omb	10671	NS11	N4N6	0h: -	N1: S	- MMh	dDw
YTTr pe omb	10672	14- : 2	1422:	14- h1	14- 2-	SM61	dDw
YTTpomb	Nh71	1- 4401- S	1- - 1224N	1- - 46112	1- - 6N4h0	SM12	dDw
YTTpomb	Nh72	14116Nh	144- h2S	1414Sh6	142- 2- :	1M26	dDw
ZdCd	6672	- 06- 0	- 0Sh:	- 6024	- 01: 2	1M4-	dDw
ZqpdnComb	hS71	2- 021	2: 2- 2	24: 64	24: S:	- MSh	dDw
ZqpdnComb	h171	: - : 1	: - 06	: N1N	: : 1:	4M06	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP u sb r J	S: . qF UMPb

8 sps b r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
qPmb cOcmb	2072	1SS2. 01	. N: - 1.	. . N6. 1	. . : 66S	SR 2	dDw
qCTb n CE	12171	22. 6: S	2- N064	2- N206	2- : : 6-	2P1 N	dDw
qpwr Ccl	0: 72	1S1. 44	1SS2S6	1S1621	1S12: 0	SR 1	dDw
Bspcmb	1- : 71	22. - . . N	2- 14N10	22N6S. 2	22. N- S2	SP6:	dDw
Bspcmb	1- 071	4S2: S10	4SS64: 6	41S: S60	4S4: : 1-	1R S	dDw
Br pEPPmb	. 71	: 0: 4	: . N.	: 010	: N2S	2R 4	dDw
Bcvb mTG	2S. 71	0- - : 2NN	0S. : 26S	0S- N1. S	01: 6246	2P2S	dDw
Bcvb mTG	2S. 72	- 220: S-	- - - 266-	2406- 22	- S1216-	1: R S	dDw
Bpmb cOr	N171	4- S1	42S1	42N4	4262	1P26	dDw
9 sob cmb	1SN71	11. 6	142.	12. 2	1- S6	NR N	dDw
9 sob cmb	1S671	6- - :	: 06N	: N6S	: . NN	: PSN	dDw
9 sob cmb	11171	14001	14. S6	1: S16	14N. N	SPN2	dDw
9 sPdcmb	4- 71	642- 6N	6: 2. - 0	644- 06	646: 61	SPN0	dDw
9 sPdcmb	4471	1SN: N4N4	1S. - : 4N2	1SN2060S	1SN0- N0.	SR 1	dDw
9 spenC	1271	242604S	242. 2. 4	241- SS1	242- S12	SR 6	dDw
9 spenC	1272	2. - 1-	2. 21-	2N02N	2. SN:	1PS0	dDw
9 GPmpcOr	- : 71	21N61- S2	2: : : S: : 0	20010211	2: S4- S2-	11PN2	dDw
9 GPmpcOr	- : 72	2140: .	21. 2- 1	22: 14N	21. 01-	2R 0	dDw
9 Gpmb cmb	: 272	61006	6- S. 2	6- : . 1	62N1.	1P4.	dDw
9 nesPT	: . 72	6: NNN	604N6	602. 1	66NNN	1R S	dDw
9 nDDr p	6- 72	2. 124-	2. SS44	2. 24- .	2. 1242	SP41	dDw
&EwDpnwcmb	1: 671	1216- :	12N- S4	1261: 1	12: - 6-	2P01	dDw
&EwDpnwcmb	1: 672	: 12N:	: 1646	: - S62	: 1. . 0	1PN1	dDw
Upecmb	16471	60. . 2	6. N06	6. 042	6. 2S-	1R 2	dDw
Upecmb	16472	20S04	20- N:	2N- 14	20: . 1	2R 4	dDw
HsonPCcmb	16S71	. 4: 20	. 6. . -	. 6: S0	. 6SS.	1R 6	dDw
HsonPCcmb	16S72	462- -	4: 0- 2	46S06	46S14	SR 6	dDw
h nPb cmb	16: 71	1S: 124- 0	. . 6: 62:	. N2- : N1	1S1SS: 4N	- P6S	dDw
h nPb cmb	16: 72	4S64404	416. 1- 4	- 2S166:	- N110: N	1- R -	dDw
tCocmb	11: 71	0: 4N2. N	0- - 4: 22	011SN62	0- - 1220	2R N	dDw
tCocmb	11: 72	. 622S6	. 6. . . :	0- 66- 0	NN. 61-	14R S	dDw
tpnC	: 472	20N- 4N:	2041. . -	2N2412N	20N- 2S2	1P4N	dDw
tpnC	: 672	: SS04: 41	: S206S2N	: S4S: 241	: S2: 1. - 0	SR -	dDw
tpnC	: 072	11. - 1. 4	11. N: 6.	12212. 4	12S4- : 2	1P24	dDw
KpEDTnC	N- 71	- 4.	- 0:	- - 4	- : 2	: R 2	dDw
Lr so	2S671	- . 4: 6: N	4S2: SS:	4144N1S	4S- N4. 1	2P4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DP t& J	y h SM- :	&dPmTmC MsdTnpJ	1
&sT i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdP usb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S071	- - N1: N1	- - 0: 046	- 4: . S: 4	- 4S: 46S	1R 0	dDw
Lr so	2SN71	1: . S260-	16S- 6SN4	16- S216:	16SNS- S0	1R26	dDw
LdTGmb	671	26. 0S6.	2626: 1N	26- : S. 4	26: 2N. 4	1R4:	dDw
y sgOr wmb	2472	1- . S0. 2	1- . - - 10	1- . 11- 2	1- . 1040	SR1S	dDw
y sOgsOr wr	: : 72	: S2662N	: S001N4	: 1- . . N4	: SN126:	1R12	dDw
y nPEeor Omb	. 471	1N- 12S	1. S1- N	1N0: S-	1N6. 2S	1R S	dDw
y nPEeor Omb	. : 71	16: 1N6	10- S- 0	10- - S0	10S: 1S	2R01	dDw
y nPEeor Omb	. 671	1. : - S4	1. N- 02	2S- . 46	1. . 2S0	2R2S	dDw
y nPEeor Omb	. 071	1S: . 0.	1S6. 01	1S6- 4.	1S64- -	SR40	dDw
y nPEeor Omb	. N71	266100	204. - 6	20026S	2020. 1	2R14	dDw
u r noEb omb	1: S71	21. 041	22. : 4S	2- 1. . :	220S. 2	2RN6	dDw
u r noEb omb	1: S72	6N410	6N641	6. 0. 4	6N. : 1	1RS0	dDw
u dkr P	6S72	20SS6	2666N	20- . S	20S21	1R 4	dDw
8 GhwDGhpmw	- 172	1460:	14N. 1	1: 1: N	14. SN	1R62	dDw
8 nTswwmb	- . 72	6N006-	60N- 6-	6N40N1	6N- 6- 6	SR0S	dDw
F Ghoomb	1S- 71	0: 61: 11	0116006	6N6- - . 4	01NS: 6S	4R 2	dDw
F Ghoomb	1S- 72	- 2S46. -	- 1. 0. - 0	24N126N	2. 61- SS	14RS4	dDw
I ds Coomb	4: 71	: S- N602	40S2246	4022140	4N21S21	- R 2	dDw
I ds Coomb	4: 72	1: S: 1S	14N: 2-	1142: N	1- 0064	14R0.	dDw
I r P Comb	N271	0:	: 2	1: :	. 4	: 0R21	dDw
I r P Comb	0072	21S	2- S	210	21.	4R6:	dDw
I r P Comb	0N72	160	10.	1. .	1N2	NR S	dDw
I dRdnC	2N71	112S: 64N	114S4. : .	112NS1- -	112. 6. 1-	SRN.	dDw
I dPr p	1S071	N. . : 2	. 2. S4	. 11: -	. 1- - 6	1R6-	dDw
I dPr p	1S. 71	N. S02	NN4- 4	NN426	NN644	SR42	dDw
I noomb	2- 72	2: 0004	2: 6. 16	261S: N	2: N: N-	SRN:	dDw
I TpmCTomb	N671	N2- 4- 2	N6S16S	N- 0- : N	N4S- 10	2R21	dDw
I TpmCTomb	NN71	0- 66202	0: 0: NSS	040. 6- .	040- . S4	1R4S	dDw
I mPmp	- 471	2. . 4S4	- S2: 4:	- S1- 1.	- S1SN.	SR-	dDw
Ar pe omb	1: . 71	1S062401	1S1S0164	. . - 2: 66	1S2604SS	4R26	dDw
Ar pe omb	1: . 72	4S60. : 1	4S1N- 0S	- 124N2.	- 0- 0S: S	14R2S	dDw
AGs RPmb	2S- 71	21: 20	2S0. 2	22S0N	2146:	- RSS	dDw
AGs RPmb	2S: 71	4. 41.	: 1- - 6	: 244S	: 1S6:	2R.	dDw
AdC	11N71	11S1-	11002	110: :	11: 1-	- R0	dDw
AdS Comb	4071	- 0S210	- NS4- 2	- 004N1	- 06S4-	1R4S	dDw
5 ps Comb	2- N71	2. 1NS6	- S6S02	- SS: : N	2. . 40.	2R4S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 446721	tOwTpmb Or Tu sb r J	8 N
9 Pr CTI sb DPP t& J	y h SM- :	&dPmTcnC MsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J26J14	&sTsMdPP u sb r J	S: . qF UMPb

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	: 172	4110: N	410- 62	41N- : -	41: N24	SRN6	dDw
YTTr pe omb	10271	1: 01S	16NN6	1: N- :	16144	4RSS	dDw
YTTr pe omb	10272	061.	061.	0640	062N	SR21	dDw
YTTr pe omb	10671	12S. N	1212-	1244S	1222S	1R 6	dDw
YTTr pe omb	10672	1: . 6S	1: . 1:	1- 02.	1: 2S2	NR .	dDw
YTTpomb	N. 71	14NS- 2S-	1- . 0. : N6	14S2N- - 4	1420S- 04	- R24	dDw
YTTpomb	N. 72	1- 66- 41	144N: 10	1S6: 2S0	12. - - : :	1: R6S	dDw
ZdCd	6672	: 2N- . .	: - - 2- 4	: - . N- :	: - - N2-	1RSN	dDw
ZqpdnComb	. S71	24S- 14	24. S: .	24: - . .	244. 24	1R0.	dDw
ZqpdnComb	. 171	: 6140	: 6S64	: : N6-	: 6S2:	SR26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d8be q dpe	2072	1S1- 614	1SS2a- -	aa01- 4	1SS4: 6S	SRu-	Ol l
d. iqe C. E	12171	22: - 62	220- u6	2- 2aS-	22u: : S	1R01	Ol l
dll p. qO	0: 72	1S- 02:	1S4: 02	1S- 1uS	1S- u26	SR6u	Ol l
Bwldpe	1- : 71	u02a61	uu2S61	aS- S: 1	uu6S24	1R04	Ol l
Bwldpe	1- 071	16- 66: -	16: 1- 6u	16642S-	16: S041	SRu4	Ol l
BplE&pe	a71	: 6Sa	: 610	: : S2	: : 06	1R1:	Ol l
Bdqe biG	2Sa71	6: : S6- S	04u- 162	6a124aa	6au2Sa0	6R0-	Ol l
Bdqe biG	2Sa72	- 10S01:	- 216: 44	- 210: uu	- 2S1616	SRu4	Ol l
BlCe q p	u171	4206	4- 10	4- 60	4- 2S	1RS6	Ol l
9 wne dpe	1Su71	14- -	12: 4	1- 0:	1- : 4	6R0:	Ol l
9 wne dpe	1S671	: - 6u	62a-	: u: 1	: u- 0	0Ra-	Ol l
9 wne dpe	11171	14021	1: 264	14- 1S	1406:	- R24	Ol l
9 w&Odpe	4- 71	0- 2211	0- 00u6	0- 2- 0S	0- 412-	SR4-	Ol l
9 w&Odpe	4471	122- S2: 6	12- 6uua6	12: - 0001	12- 0ua04	1R24	Ol l
9 wlr C.	1271	2- 41S- 0	2- : 0a24	2- 2u022	2- 42: 61	SR6-	Ol l
9 wlr C.	1272	2u- 0u	2uSS2	2u- 61	2u240	SR0:	Ol l
9 G&Clq p	- : 71	21a- 044-	2: 16aa2a	201a41S2	240601: u	1SR01	Ol l
9 G&Clq p	- : 72	2S040a	21S2S1	21u2Sa	211a6-	2R6-	Ol l
9 GlCe dpe	: 272	4aa6-	4a41u	4a26:	4a: 4a	SR04	Ol l
9 Or w&	: a72	6- - 1S	6- S2:	6- 1aa	6- 10u	SR2-	Ol l
9 Ot t pl	6- 72	- 61S: a	- : : S44	- 6S00:	- : ua6S	SRa:	Ol l
TEl t lCl dpe	1: 671	11: 24:	112: aS	114u- :	11422-	1R2:	Ol l
TEl t lCl dpe	1: 672	46u- 2	40062	46: 10	40S- 0	1Ru	Ol l
Ulr dpe	16471	6S- a0	6S- S4	61- - :	6S60u	SRa4	Ol l
Ulr dpe	16472	24: S6	2- auu	24- : 6	242u-	1R1S	Ol l
HwnC&q dpe	16S71	u4S: u	u62- S	u6: u2	u: 62-	1R6S	Ol l
HwnC&q dpe	16S72	- a606	41S2S	4Sa6-	4S: : -	1Ru0	Ol l
h C&e dpe	16: 71	a1ua242	1Su10u: S	au00u62	aa616: 1	uR21	Ol l
h C&e dpe	16: 72	4212: 4-	410u- 1:	412a016	410- : 2:	1RSS	Ol l
& ndpe	11: 71	66SaS- 1	0u: 26u2	0S: 0a1a	010- 211	uR0u	Ol l
& ndpe	11: 72	a4a- u1	a- 61- -	a- 02S6	a4SaS6	SR0u	Ol l
&C.	: 472	26- 1S2u	26- 26a-	2: 00114	261- 612	1R21	Ol l
&C.	: 672	46a: 60a0	466122: u	461a04: 0	46: uuu- 0	SRu2	Ol l
&C.	: 072	112- 66u	11S066:	111S- - :	111- uua	SR00	Ol l
KIEt iC.	u- 71	- - 6	- - S	- - 1	- - 2	SRaa	Ol l
Lpwn	2S671	- 41a- 42	- - 06u00	- 41u: 4u	- 4S4a22	SR01	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	&l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u6: a16	2ua: 0S-	2aS2Suu	2uu0aS2	SR60	Ol l
Lpwn	2Su71	1- 4- 0146	1- 44: 0a-	1- 6S- 4aS	1- 4a: 400	SR6a	Ol l
LqjGdpe	671	24- - a16	20aSaa1	2: 400a0	2: aSaS2	0RS4	Ol l
y wg. pl dpe	2472	116141a	11: 0Sa0	11uu: S6	116aSS0	1R46	Ol l
y w. gw. pl p	: : 72	: 1a21- 6	: Sa040S	: S040: 1	: 1214: 2	1R22	Ol l
y O&Er np. be	a471	1u6u0u	1uau26	1uaS4S	1uu: u1	SRu1	Ol l
y O&Er np. be	a: 71	1u4: Sa	1u0- 6-	1u- 644	1u: 102	1RS:	Ol l
y O&Er np. be	a671	2126- u	21- u10	214626	21- 6a4	SR40	Ol l
y O&Er np. be	a071	114- 4:	11u6au	11- : : 6	11: : - -	2R4S	Ol l
y O&Er np. be	au71	2a6- aa	- S: 4au	2a01: :	2aa6u4	1R6u	Ol l
mpOnEe dpe	1: S71	1aaSu:	2S12- 2	2S410-	2S14a0	1R20	Ol l
mpOnEe dpe	1: S72	610a2	6Su: 1	61: 60	614S-	SRuS	Ol l
mqOkp8	6S72	20: S0	26u: a	202u-	20216	1R21	Ol l
NGOl t GOlbl	- 172	12- 14	124: 6	12214	12- 2u	SRaa	Ol l
NOiwl l dpe	- a72	6uuSS2	6a: aaS	6u: - Su	6ua060	SRu1	Ol l
F GOndpe	1S- 71	6: 0Su1u	0: : a: a4	0S1ua42	0S4a0u:	0RS2	Ol l
F GOndpe	1S- 72	- 1a04- S	- 1u461u	- 114: 1a	- 16: : 22	1R41	Ol l
DOw. ndpe	4: 71	440: 6a0	4aa2aua	4: 06a16	46u1u60	: Ru6	Ol l
DOw. ndpe	4: 72	1402S6	140S0:	140010	140- - -	SR2-	Ol l
Dp&p. dpe	u271	11:	1S:	1- :	11u	12Ra1	Ol l
Dp&p. dpe	0072	1uS	16S	1u-	104	0R24	Ol l
Dp&p. dpe	0u72	14u	1u:	141	1: u	14Ra6	Ol l
Dq&qOC.	2u71	1162- 642	11624u2S	116SaS2-	1161a162	SRSu	Ol l
Dq&vpl	1S071	u: 41:	u4a0S	u42S0	u4u64	SR02	Ol l
Dq&vpl	1Sa71	uS1: 1	u2a0:	uS41a	u11u2	1Ra2	Ol l
DOndpe	2- 72	2- 2- uS	2- 142:	2- 1062	2- 1u: 6	SR21	Ol l
DilC. idpe	u671	a: 2S21	a46aS0	a: 06: u	a: 21a:	SR 6	Ol l
DilC. idpe	uu71	u- 6a- u6	u62a- S-	u: S- 0: 0	u: SSu16	1R -	Ol l
Db&bl	- 471	: - 4a24	: - uu66	: 440: S	: - a: 1-	SRa2	Ol l
cplr dpe	1: a71	a: 2- 6S0	1S006: 6S	auu2u6:	1SS61S11	6R41	Ol l
cplr dpe	1: a72	4S4411a	4S: 0600	41Su- 02	4S0SS: 6	SRu-	Ol l
cGw&&pe	2S- 71	10001	10621	101- 0	10: Sa	1Rua	Ol l
cGw&&pe	2S: 71	42- u0	41- 24	4- 44a	42- u0	2R 1	Ol l
cq	11u71	1S4- u	12- 0-	1Sa6-	112: u	uRua	Ol l
cqjw. dpe	4071	- S0u6u	- S4u0-	- S61uu	- S6- 1S	SR4a	Ol l
5 lw. dpe	2- u71	2a: a6S	2ua64u	2a: uu:	2a- u- 1	1R2-	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 446722	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM-6	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J2aJS0	TwiwMd&p mwe p J	S6SdF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	: 172	- 642SS	- 66aau	- 6410u	- 6: 12:	SR44	Qtl
Yiiplr dpe	10271	1- 204	142u-	1- uSu	1- 0uu	- R36	Qtl
Yiiplr dpe	10272	646-	60uS	6u: 0	60SS	- R12	Qtl
Yiiplr dpe	10671	1S: uS	1S- - u	1Sa21	1S61-	2R06	Qtl
Yiiplr dpe	10672	14u2S	140u6	1: 6: a	1: Suu	- R2u	Qtl
Yiildpe	ua71	1- S1S- 0a	14u201- -	1- u2- - S6	1- uu6a- a	6R:	Qtl
Yiildpe	ua72	1- - Su6u	1- - 02aa	1- 2S12S	1- 2a42a	SR6:	Qtl
Zq O	6672	: S64a4	: S66u0	4a04: 0	: S- : 46	1R5:	Qtl
Zdl OC. dpe	aS71	22- 1- 1	22- - aS	2- 1604	226S6:	2R1:	Qtl
Zdl OC. dpe	a171	: 16uS	: S64-	: 211:	: 140a	1R40	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUM

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
8be qCdpe	2072	6SJS- 4	6SSJS-	Jh- u66	JhhuS1	SM14	dt l
Ciqe nCE	12171	4- S1	4426	4J4-	442-	2M0-	dt l
Il pCqd	0J72	12- S-	12- - 4	12- 6u	12- - J	SM26	dt l
Bwldpe	1- J71	401h41	4uJJ6-	4u- 262	4uS2JJ	1M12	dt l
Bwldpe	1- 071	u- 0J6J	u46424	uJSJJ4	u44u4u	SM0h	dt l
BplE8dpe	h71	24S6	24u0	2J- 4	2406	2M61	dt l
Bdqe biG	2Sh71	6uS0622	6h0hJ- 0	6u222u1	6u6hu1-	1Mh	dt l
Bdqe biG	2Sh72	- - S- uS6	- 2J1110	- 22SJ6J	- 2Ju4h6	1M2h	dt l
Blne qCp	u171	601S	02J2	0200	0SuS	4M-	dt l
5 woe dpe	1Su71	242	242	260	2JS	JM00	dt l
5 woe dpe	1S671	4J4-	4S26	4- S1	42hS	6M8-	dt l
5 woe dpe	11171	2J2-	2- SS	2- - J	2- u6	JM82	dt l
5 w8ldpe	4- 71	- 162Su	- 2- 1uh	- 226JS	- 2S6u2	1M21	dt l
5 w8ldpe	4471	J4Su4u-	JJ1SuJ2	J4J6uJ4	J4Ju0- S	SM14	dt l
5 wlr nC	1271	6Su0- 6h	66SJ66h	6JhS- 44	64200h4	4Mh	dt l
5 wlr nC	1272	u1uJ-	0hh2J	u241J	u1- hu	1M0S	dt l
5 G8nlqCp	- J71	21S0620u	2JS0S- 66	20SSJh- S	24- u41h1	12M4S	dt l
5 G8nlqCp	- J72	2S1h00	2Su- Sh	212S1u	2S04- J	2M4J	dt l
5 Glne dpe	J272	- 660-	- 66S4	- JhJ2	- 641S	1M8h	dt l
5 nr w8	Jh72	40u1-	4h62-	40606	4u- 01	2M2J	dt l
5 nt t pl	6- 72	102S2S	10S62u	10SJ41	101S6-	SM4h	dt l
TEl t Inl dpe	1J671	6h6Ju	0S- 61	60u22	6h2uS	1Mh	dt l
TEl t Inl dpe	1J672	2u614	2uh0u	2uJ04	2u022	SM0u	dt l
Flr dpe	16471	J- 042	JJhh-	J6S44	JJ26S	2Mu	dt l
Flr dpe	16472	2210J	221- 2	21u02	22S6S	SM04	dt l
Hwon8qCdpe	16S71	Jh2J0	62S0h	61h0u	611SJ	2M62	dt l
Hwon8qCdpe	16S72	2u610	2h6uS	2h1J2	2h1JS	1M12	dt l
y n8e dpe	16J71	hhSh11u	1SSS4S61	h0JhJu6	huhSh22	1M2J	dt l
y n8e dpe	16J72	41u- SS0	412004S	4142Sh2	41JSh46	SM8h	dt l
&Codpe	11J71	0S014- 6	02- h- JJ	6h42J- 6	0Su4442	2M1S	dt l
&Codpe	11J72	hJ- 1h0	hJ2102	hJ2- 4S	hJ2J0S	SM86	dt l
&nC	J472	- S2h2- 4	- S- uSu6	- S4J12h	- S- 04u-	SM26	dt l
&nC	J672	JJS21- JJ	J4616u- h	J- h0J01u	J4J- 0h01	SM10	dt l
&nC	J072	1- h- Jh-	14Sh646	1- 611hS	1- uu14-	1M0u	dt l
KIEt inC	u- 71	- 26	- 1S	- 26	- 21	2M12	dt l
Lpwo	2S671	4hhS2S	4h611J	4h14J6	4hJJ- S	SM00	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 4467S1	&Cl ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T:a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUM

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqI
Lpwo	2S071	41- 1S-	41S1hS	4S6Suh	4Sh0h4	SM16	dt l
Lpwo	2Su71	1h2J06h	1h2h06S	1h42- 1-	1h- 2614	SM4J	dt l
LqiGdpe	671	2J24- 22	2JJ4hh0	2661JuJ	2JuS- S1	2M0h	dt l
9 wgCpl dpe	2472	0h1S1h	u1S6u-	uS1661	uS1121	1M2-	dt l
9 wCgwCpl p	JJ72	uS1u01	uS6410	0hh616	uS26- J	SM4-	dt l
9 n8Er opCbe	h471	201S2	204u6	20J61	20- u-	SM1S	dt l
9 n8Er opCbe	hJ71	611S	6SJ1	J406	Ju0h	JM16	dt l
9 n8Er opCbe	h671	1S46-	1S212	1S- 01	1S- 4h	1M22	dt l
9 n8Er opCbe	h071	- - Sh	- JS1	- J42	- 4J1	- M61	dt l
9 n8Er opCbe	hu71	h162	h60h	h4hJ	h44J	2M00	dt l
mpnoEe dpe	1JS71	1161- 2	11JuJ1	11uJhh	116u61	1M2h	dt l
mpnoEe dpe	1JS72	- J- - S	- 4h4h	- J644	- J- Su	SM1h	dt l
mqdkp8	6S72	24uJh	24huJ	24002	24u02	SM4-	dt l
NGnl t GnIbl	- 172	u16h	0061	0J6h	0u- -	- M12	dt l
Nniwl l dpe	- h72	4S604S	410h1-	4S0110	41SJhS	1MJJ	dt l
. Gnodpe	1S- 71	6h0Sh60	0146600	01u464S	01SS061	1M61	dt l
. Gnodpe	1S- 72	- 21hu6u	- 24614S	- 1h2hu4	- 21h664	SMJ-	dt l
DdwCodpe	4J71	46SJuu-	402J- SJ	4010u- u	46u- SSh	1M4-	dt l
DdwCodpe	4J72	140Su2	140166	146h04	140S04	SM80	dt l
Dp8pCdpe	u271	2- 2	1h0	2S0	212	uM4u	dt l
Dp8pCdpe	0072	12-	1- S	h-	116	16M1S	dt l
Dp8pCdpe	0u72	11S	uJ	124	1S6	1uMJu	dt l
Dqqdn C	2u71	1J6Jh2h0	1Ju444hu	14hh- 26S	1J4hhS1u	2MJh	dt l
Dq8vpl	1S071	2u10	- 1Jh	2uh2	2hJ6	6M8u	dt l
Dq8vpl	1Sh71	2uSS	200J	2JSh	26hJ	6M8S	dt l
Dnodpe	2- 72	61h16	61S0S	62Sh1	616h2	SMJh	dt l
DiInCidpe	u671	2u606u	2hh21S	2h20h-	2h2h24	2M12	dt l
DiInCidpe	uu71	26SSu02	20102- S	266h1Jh	266242S	2M2S	dt l
Db8bl	- 471	- S4hSu	- S- - uu	- S101S	- S- - - 6	SMJ-	dt l
cplr dpe	1Jh71	1S14J40u	1S24J- 1J	1S140Ju1	1S10h4Ju	SM16	dt l
cplr dpe	1Jh72	4S- 2u41	4S100- 1	4S00u24	4S420hh	SM00	dt l
cGwq8pe	2S- 71	2410	2- 0J	2- u4	2- h2	SM12	dt l
cGwq8pe	2SJ71	J1S1	J1h-	J1- 4	J14-	SM1S	dt l
cqC	11u71	u1h4	u6- 6	u4- 6	u422	2M0-	dt l
cqwCdpe	4071	1SS2h2	1S1Shu	hh- 1u	1SS2- 6	SMJh	dt l
RIwCdpe	2- u71	0uhh6	0h- 2-	0h- JJ	0h22J	SM2J	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwinI:a	swI Pw8
Lwr :Dwe t 8p:&T :a	3 - 4467S1	&Ci ilbe Cpi:mwe p:a	Nu
5 8pCi:Dwe t 8p:&T :a	9 y SUS2	Tq8piqnC:Uwdinl:a	1
Twip:A:cqe p: dCbdpo:a	2S2- 7S0712:1Ja- 2aS4	TwiwUq8p:mwe p:a	S61 . FUMd

Nwlwe pipl	9 wl l	5 ND1	5 ND2	5 ND-	5 ND9 pwC	5 ND. DT	RCqil
VwCwodpe	J172	6hS4J	6u- 2h	6uhJ6	6u000	SMl0	dt l
Yiiplr dpe	10271	16244	1020S	164S2	166- h	- M2	dt l
Yiiplr dpe	10272	0- u6	00h0	06u6	062-	2M7h	dt l
Yiiplr dpe	10671	11h02	11h40	110- h	11uu6	1M8u	dt l
Yiiplr dpe	10672	1J01S	1J621	162u2	1Ju01	2M26	dt l
Yiildpe	uh71	1- 40h646	1- uJS6Su	1- uSJ0uh	1- 012S14	1M4u	dt l
Yiildpe	uh72	141SJS2	1- 626J1	1- 4J1- J	1- 0206-	2M46	dt l
ZqCd	6672	uh- S6	uu26-	u00hS	uu4J-	SMlu	dt l
ZqdnCdpe	hS71	6- 1u6	6- h02	64h- J	64S- 1	1M10	dt l
ZqdnCdpe	h171	14S04	1Ju06	14u2J	14h2J	6M36	dt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8l N
LI eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNt . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9 r l .	F3l y l &	5 . dP
qNmb c omb	20:2	1-4	14-	10	1-	11N31	dDP
q. Tb C. h	121:1	-S	0-	77	-7	7 N04	dDP
qpPr . cl	0-:2	4	6	-	-	2SN3S	dDP
Bl pomb	17-:1	160	-s	1SS	1Ss	-SM44	dDP
Bl pomb	170:1	742	1Ss	s7	10s	sSM14	dDP
Br phNNmb	:1	-4	4	4S	40	14N04	dDP
BcPb mTE	2S :1	60SS4S1	60s0-s	661 76s	60S24-7	1N26	dDP
BcPb mTE	2S :2	711000S	72224-0	7102S -	710S004	1N0-	dDP
BpCb c r	s1:1	7042	70 2	7006	700S	SN0s	dDP
Fl ob omb	1Ss:1	s	s	10	11	47N74	dDP
Fl ob omb	1S6:1	77S	7S-S	7726	722s	4N0s	dDP
Fl ob omb	111:1	7-s	74	7-4	7-4	1N7S	dDP
Fl Nlomb	47:1	7S	2s1	2-2	2s1	1SN32	dDP
Fl Nlomb	44:1	77041	77SS6	72--S	77S	1N42	dDP
Fl peC.	12:1	226047S	224-0-2	22 2Ss-	226s427	1N32	dDP
Fl peC.	12:2	2sS-2	20s 4	2s-70	2s161	1N1	dDP
FENQpc r	7-:1	77744s0	71676 -	717SsS0	72S 667	7N41	dDP
FENQpc r	7-:2	1 7sS	1 0S-	1 7 0	1 4 4	SM4	dDP
FEpCb omb	-2:2	1S 0	1S-0	12-0	1170	N71	dDP
FCel NT	- :2	70	47	6S	40	2-N0-	dDP
FCDDr p	67:2	1S7S	s2S	-S	77	11N76	dDP
&hPDpCPomb	1-6:1	2-	10	s	10	-SN31	dDP
&hPDpCPomb	1-6:2	7	0	7	4	47N4S	dDP
Upeomb	164:1	s7	-S	-S	61	71NS	dDP
Upeomb	164:2	70	20	2S	2s	7SN2S	dDP
Gl oONd omb	16S:1	-S	60	1SS	02	7-N2-	dDP
Gl oONd omb	16S:2	127	14S	11S	124	12N3s	dDP
HONN omb	16-:1	47 414	10s2 s	--06-4	7 10s	2N30	dDP
HONN omb	16-:2	41 0 s0	41-s 7	4S0- 4-	41447S	1NS	dDP
t. oomb	11-:1	60s s47	6 -6206	6 67 -1	6 S77-0	1N47	dDP
t. oomb	11-:2	4-061	s-S00	-46-6	61s71	2N14	dDP
tpC.	-4:2	461	-10	411	467	11N41	dDP
tpC.	-6:2	7--1	-0-	470	4-67	24N4-	dDP
tpC.	-0:2	111	210	1s7	10S	71N60	dDP
KphDTC.	s7:1	262	2-2	241	2-2	4N22	dDP
Lrl o	2S6:1	170s	1122	1110	12S6	12N7s	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pl TCpJa	wl P8l N
Ll eJ l b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJu l b r Ja	3s
FNr . TJ l b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJu l b r Ja	S62FFBUM

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl.	F3l yl &	5. dP
Lr l o	2S0:1	122s	1S2s	1S22	1S 7	1SM02	dDP
Lr l o	2Ss:1	-4S1	44 -	467	4s4-	1SM34	dDP
LdEcmb	6:1	24S0s64	2-7SS1	2440002	2461ss-	2M7	dDP
9l g. r Pcmb	24:2	177	2-s	10-	1s	77M	dDP
9l . gl . r Pr	- - :2	127	107	4S0	27-	64M7	dDP
9 CNeor . mb	4:1	210	2SS	1SS	102	76M4	dDP
9 CNeor . mb	- :1	0-	0-	110	s	20M0	dDP
9 CNeor . mb	6:1	260	142	12-	10s	47M6	dDP
9 CNeor . mb	0:1	60	-s	s	44	0SM	dDP
9 CNeor . mb	s:1	142	60	s7	0	4SMS	dDP
ur Cohb cmb	1-S:1	4S	2S	20	2	7-M-	dDP
ur Cohb cmb	1-S:2	S	1S	0	6	1M4	dDP
ucdkr N	6S:2	20	6S	-7	40	70M	dDP
3 ECPDECpmP	71:2	1Ss	1-s	1 2	1-7	20M-	dDP
3 CTl PPcmb	7 :2	612	6S7	1SS-4	0-6	2M4	dDP
y ECocmb	1S7:1	6s62-7s	6 -6162	6s6s4 -	6s -072	SM6	dDP
y ECocmb	1S7:2	72-0-s0	7200S-S	72S4 S4	7246-14	1M-	dDP
l dl . ocmb	4- :1	44- -S66	4-16- -2	47- 0s-	4447sS1	1Ms	dDP
l dl . ocmb	4- :2	14S126	1467s1	1426S1	147S76	2MS	dDP
l r Nl . cmb	s2:1	1	:-	4	S	SMS	dDP
l r Nl . cmb	00:2	0	S	S	2	107M1	dDP
l r Nl . cmb	0s:2	1-	14	21	10	22M2	dDP
l dcdC.	2s:1	1sS611	10-s21	1060s	100041	1M2	dDP
l dNr p	1S0:1	160	1s7	110	1-6	22M7S	dDP
l dNr p	1S :1	1 2	1 2	12-	16	22M1	dDP
l Cocmb	27:2	21S 1	21-42	21416	2174	1M	dDP
l TpC. Tcmb	s6:1	-60	-60	6Ss	-s1	4M4	dDP
l TpC. Tcmb	ss:1	2S10	1410	12-S	1-61	2-M7	dDP
l mNmp	74:1	2-41 2	2- 2S	2-s1-7	2-0422	1M4	dDP
Ar pecmb	1- :1	- 202s	-106 -	6-66s1	-s S7-	SM7	dDP
Ar pecmb	1- :2	4SS-6-1	41S4S40	7 40S07	4S1s 24	1M0	dDP
AEl NNmb	2S7:1	7SS	410	4-s	7 2	2SM6	dDP
AEl NNmb	2S- :1	2-	sSS	-S	s 2	M1	dDP
Ac	11s:1	1S42	12SS	12Ss	11-S	sM0	dDP
AcT . cmb	40:1	1-S	142	1-s	1-S	-M6	dDP
5pl . cmb	27s:1	s7	77	10	44	0sM0	dDP

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb erpJa	LB1264S0	n Dr pl TCpJa	wl P8l N
LI eJl b DNJt&JaJ	3B1-7 21BL	t. PTpmb . r TJul b r Ja	3s
FNt . TJl b DNJt&JaJ	3Bl 21	&dNTC. JRl dTCpJa	1
&l Tr J JAcb r JqdOmpr o Ja	2S27:S0:12J1-a7sa1-	&l Tl RdNJul b r Ja	S62FFBUMd

3l pl b r Tr p	9l PP	F3l 1	F3l 2	F3l 7	F3l 9rl .	F3l yl &	5 . dP
Vl . l ocmb	-1:2	20	4S	7S	72	21M7	dDP
YTTr pecmb	102:1	-S	77	0-	-7	7 M04	dDP
YTTr pecmb	102:2	22	77	2s	2s	2SM3S	dDP
YTTr pecmb	106:1	1277	1210	11Ss	11s6	-M02	dDP
YTTr pecmb	106:2	1S701	1S0s2	1S77s	1S4 0	2M76	dDP
YTTpcmb	s :1	12766sS0	122 S-1S	122-17SS	127S2s02	SM4s	dDP
YTTpcmb	s :2	1262s2-	17s2716	172127S	1722124	4M2	dDP
Zc d	66:2	1S7	16S	1-S	17s	21M-	dDP
ZqpdC. cmb	S:1	-60	7 2	7Ss	422	71M27	dDP
ZqpdC. cmb	1:1	42	1Ss	s7	0s	47M7S	dDP

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Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l T Rdpamle pas	S67LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14 6	1-61	1-4S	1-72	2M16	dDP
q. Tde C. h	121J1	16SS1	1010u	107S7	16u20	4M20	dDP
qlPp. cd	0-J2	24u	276	2-6	240	4N3u	dDP
Bl lcbe	17-J1	1u1uu	1 S 0	1u-uS	1u622	2M4-	dDP
Bl lcbe	170J1	7S676	726-0	72004	72S22	7M0-	dDP
BplhNbe	J1	2246	2211	22 1	224	1M0u	dDP
BcPe bTE	2S J1	616-4S6	6u-2S40	601S-S-	6-0- u6	-M1	dDP
BcPe bTE	2S J2	72S2 u2	71-1674	72S1464	71u-76S	SM2	dDP
BlCe c p	u1J1	4S-1	7642	4106	7 -6	0N3-	dDP
Fl oe cbe	1SuJ1	1-4	1uu	142	161	14M0S	dDP
Fl oe cbe	1S6J1	70S	76-1	7 42	7060	4M1S	dDP
Fl oe cbe	111J1	2022	2-uu	2-70	2616	7M04	dDP
Fl Ndcbe	47J1	121u	122u1	11 0-	1214u	1M2	dDP
Fl Ndcbe	44J1	224110	226 S	2266-1	22- 1	SM0S	dDP
Fl lr C.	12J1	27S14uS	22 4 Su	272 20-	27Su--4	SM0	dDP
Fl lr C.	12J2	20210	2uS-2	20u47	200S4	1M0	dDP
FENCl c p	7-J1	21-S0uu	2S4- -7	2S2S6 0	2S0240	7M7	dDP
FENCl c p	7-J2	170	12u4u	12u4u	1716-	4M10	dDP
FElCe cbe	-2J2	67-1	620-	6S71	621	2M	dDP
FCrl NT	- J2	4u21	4u64	4064	4u16	1N34	dDP
FCDDpl	67J2	u42	u0 7	u6S6	u6S	2M1	dDP
&hPDlCPcbe	1-6J1	10	S	u	u	1SSN32	dDP
&hPDlCPcbe	1-6J2	7	0	0	6	74M0S	dDP
Ulr cbe	164J1	-S	77	-u	40	26M6	dDP
Ulr cbe	164J2	27	70	1S	27	-0M1-	dDP
Gl oCNd cbe	16SJ1	60	0-	12-	u	7-MS	dDP
Gl oCNd cbe	16SJ2	11S	177	1-0	177	10MS	dDP
HCNe cbe	16-J1	u6677-6	-406uu	-u-0u1	26-6Su	-M7	dDP
HCNe cbe	16-J2	4Su606	412 Suu	42241S6	41466-4	1M0S	dDP
t. ocbe	11-J1	67666 0	6u0 26	0S-2 72	60662	-M20	dDP
t. ocbe	11-J2	u2uSu	47u7-	60 4-	64u67	2N34	dDP
tlC.	-4J2	22 67	27SSu	27-14	27162	1M2	dDP
tlC.	-6J2	42 11-	422-4-	42-6uu	42-0u2	SM0	dDP
tlC.	-0J2	1S4u2	1S-u0	1S670	1S-6	SM0-	dDP
KlhDTC.	u7J1	261	2-4	2-S	2--	2M4-	dDP
Lpl o	2S6J1	u-76	1S7	S64	u S1	7M6	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTaml e pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamlepas	S67LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	000-	u240	001	0 14	7N60	dDP
Lpl o	2SuJ1	7-271	76uuu	7-62S	7- 17	2M41	dDP
LdEdbe	6J1	2774607	24u-- 7	2-112-	2447u42	7MS	dDP
9l g. pPdbe	24J2	1S17-1	1S7-S1	1S224	1S2760	1N3-	dDP
9l . gl . pPp	--J2	1740	1707	1777	17-1	1M1	dDP
9 CNr op. be	4J1	10uS4	1u270	10-62	10u6u	1M2	dDP
9 CNr op. be	-J1	21 47	21626	22020	22S	2M0	dDP
9 CNr op. be	6J1	2427u	27-01	2--S0	2447	4N37	dDP
9 CNr op. be	0J1	14S04	17-04	174	1701-	2M2u	dDP
9 CNr op. be	uJ1	74247	7-1u0	7-u64	7-S u	2M72	dDP
mpCohe dbe	1-SJ1	2S	17	2S	1u	21N06	dDP
mpCohe dbe	1-SJ2	7	7	0	4	47M4S	dDP
mdkpN	6SJ2	14 0	144S	17u0	1441	7M12	dDP
3ECPDECIbP	71J2	277	177	142	16	72N0-	dDP
3CTl PPdbe	7 J2	01247	01Su4	0S024	01S10	SM70	dDP
y ECodbe	1S7J1	62-u407	6 S6S7S	6 -02-0	60S02-7	-M41	dDP
y ECodbe	1S7J2	771-6S	716 S0-	7222S7	727--04	2M2	dDP
: dl . odbe	4-J1	4S u62	46S-70u	44 646	44SS-0S	6N3-	dDP
: dl . odbe	4-J2	14-02	17 72	14-4 2	14701u	2M2u	dDP
: pNp. dbe	u2J1	021	1	u14	u1u	12N3u	dDP
: pNp. dbe	00J2	20	7S	7S	2	6N4-	dDP
: pNp. dbe	0uJ2	1		S	7	-M2u	dDP
: dNdC.	2uJ1	270770	2760 4	270764	27016-	SM14	dDP
: dNpl	1S0J1	114--	11614	1S 7u	11776	7M12	dDP
: dNpl	1S J1	1S4 6	1S001	1S uu	1S0-2	2M2	dDP
: Codbe	27J2	1 7027	1 6SuS	1u 0u1	1 71 -	1N4-	dDP
: TC. Tdbe	u6J1	2 42	7S74	7S74	7SS7	1N06	dDP
: TC. Tdbe	uuJ1	22061	22 11	27S2u	22 SS	SMu	dDP
: bNbl	74J1	26766u	26-740	26u67u	26-uu4	SM-	dDP
Apl r dbe	1- J1	1u4u2S	00001-	0-2-6-	-010SS	7MS	dDP
Apl r dbe	1- J2	7 7uu1	7 21127	4S 41S2	4SS7S7-	2M10	dDP
AEl NNdbe	2S7J1	2 -	046	0-4	- u	2N07	dDP
AEl NNdbe	2S-J1	22412	27 4u	241u1	27-14	4N3	dDP
Ac	11uJ1	11-S	17S	1742	1260	uN3	dDP
AdT. dbe	40J1	6-7-	6747	- 06	62u-	4M2	dDP
5ll . dbe	27uJ1	722SS	721 2	72S4	72140	SM26	dDP

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LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 21B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 21	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1-s41s47	&l Tl Rdpamle pas	S67LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	u60	700	0 S	60u	2M07	dDP
YTpIr dbe	102J1	42	-S	0-	-6	71M22	dDP
YTpIr dbe	102J2	2u	2u	77	7S	1SM1	dDP
YTpIr dbe	106J1	1110	12SS	1S0-	1171	-M07	dDP
YTpIr dbe	106J2	1S400	u-	11S77	1S4-6	-M61	dDP
YTTdbe	u J1	11--- -7	12-- 47-	12u72u60	12716Su-	-M46	dDP
YTTdbe	u J2	17-7460	124-76	126-S60	12u0 6u	4M40	dDP
Zc d	66J2	24 0	2244	2440	27 6	-M0S	dDP
ZddC. dbe	SJ1	144-u	14u10	1460-	146-S	1M27	dDP
ZddC. dbe	1J1	7-74	7142	7460	77u1	6M2S	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdPP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N2hSNS	N24020	N14h4N	N22h1N	SMMN	dDw
qCTb nCE	12171	2- 0:	24N4	22h2	2- N4	4NS-	dDw
qpwr Ccd	0: 72	20Nh	201-	2622	20SN	- NSh	dDw
Bspcmb	1- : 71	40464S	4h- 240	4h- : S2	4N01- S	2M02	dDw
Bspcmb	1- 071	N66h4h	N0S2- 2	N001: 4	N0144:	SM0S	dDw
Br pEPPmb	h71	1N- h	1h14	1h04	1hSh	- M4	dDw
Bcwb mTG	2Sh71	02h: 241	0S242: :	6: - 6h6h	6h: 21: :	: M-	dDw
Bcwb mTG	2Sh72	- 26N0- h	- 1: N: - -	- 2S: 26h	- 21SN40	1M02	dDw
Bpmb cOr	N171	646N	0S6h	0: S2	0S1-	0M4S	dDw
5 sob cmb	1SN71	16-	1SN	121	1- 1	21M02	dDw
5 sob cmb	1S671	42- 4	- h60	4126	41Sh	- M20	dDw
5 sob cmb	11171	16: 6	1: 2h	1: 2S	1: 6N	4MM-	dDw
5 sPlcmb	4- 71	0- : 0NS	0: SS- N	0: 0hSh	040hSh	1M1S	dDw
5 sPlcmb	4471	1224Nh20	12: 06: 1S	12: NN- 0S	1240126h	1M4	dDw
5 spenC	1271	4NN16SS	: 2S6S2N	: 1216- :	: S6h0: 4	- M2	dDw
5 spenC	1272	62204	6- Sh4	616: :	62- 41	1M16	dDw
5 GPmpcOr	- : 71	12NS1NN1	16022: 22	1h- 0- 22h	162hh211	2SM2N	dDw
5 GPmpcOr	- : 72	160- Sh	1046N0	1N1S02	104- : 6	- M1:	dDw
5 Gpmb cmb	: 272	- N6: 2	- 6: 1S	- 0S0N	- 041-	2M10	dDw
5 nesPT	: h72	- 066-	- 0666	- N4: :	- 0h2N	1M2S	dDw
5 nDDr p	6- 72	0- hS1	04S: 2	0264:	0- : - -	1MS:	dDw
&EwDpnwcmb	1: 671	: S622	: - : 10	: - : 0:	: 2: 02	- M21	dDw
&EwDpnwcmb	1: 672	21: 4N	22122	216N4	210N:	1M1N	dDw
Fpecmb	16471	416h1	44- 16	421N4	420- 1	- M20	dDw
Fpecmb	16472	10S0N	10S14	16NhN	16hh0	SM14	dDw
HsonPCcmb	16S71	466N2	4hS41	4hS04	4N266	2MM4	dDw
HsonPCcmb	16S72	2- 160	22N1-	224h2	22N24	1M4N	dDw
y nPb cmb	16: 71	1S- 16S06	1S- 2NSN6	h26- 020	hh6h2h6	6M1-	dDw
y nPb cmb	16: 72	42SS: : :	41- 1h14	4Sh6N0-	414- 114	1M20	dDw
tCocmb	11: 71	062h122	0- 001: S	66- 4N: 1	021- 0SN	0M10	dDw
tCocmb	11: 72	h: NS- 1	h: 6h2:	h: : : 14	h: 6N24	SM1-	dDw
tpnC	: 472	2: 4S40-	261: - 0-	2: 206S-	2: 6114h	1MM:	dDw
tpnC	: 672	46Nh2: - 0	40014S06	4: 66: 0- h	460: 04: 1	2M2S	dDw
tpnC	: 072	112S6N-	111: SN6	11S- S40	1112h- h	SMM1	dDw
KpEDTnC	N- 71	- - S	- 4h	- 12	- - S	: M4h	dDw
Lr so	2S671	- Sh: 21	- 2S: 2S	- 2S- 11	- 160N4	1M1h	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1:	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP usb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	2: 4211	2624N-	26- - h0	26SS- S	1M1:	dDw
Lr so	2SN71	12S4010	1242: 2:	12: 6: - 0	12- 4: h-	2M10	dDw
LdTGmb	671	204SN4N	2: 0SS6-	24N: 416	2: hN00:	: M81	dDw
9 sgOr wcmb	2472	1N6- 2- 2	1N0- 461	1NN00S0	1N04NSS	SM06	dDw
9 sOgs Or wr	: : 72	: - N012	: 4SS01	: - SN- :	: - 6: - h	SM1-	dDw
9 nPEeor Omb	h471	11014	122Nh	12122	12S42	2M46	dDw
9 nPEeor Omb	h: 71	: - 4-	: 226	: 6- :	: 4S1	- M1S	dDw
9 nPEeor Omb	h671	6h6S	0: : 2	04S2	0- S:	4M21	dDw
9 nPEeor Omb	h071	- - 42	- - : S	- 210	- - S-	2M26	dDw
9 nPEeor Omb	hN71	N- 6h	N4N6	h- 12	N022	: MNh	dDw
u r noEb cmb	1: S71	N4NS6	N- h42	N41S2	N42N-	SM1:	dDw
u r noEb cmb	1: S72	26- 2-	26166	261h6	2622N	SM12	dDw
u cdkr P	6S72	2S- : 1	2S: h2	2S1- N	2S- 6S	1M12	dDw
8 GhwDGhpmw	- 172	4: 6N	40: 1	4: : h	4626	2M4	dDw
8 nTswwcmb	- h72	4N2h- :	406442	4NS1S0	40hN2N	SM0N	dDw
. Ghocmb	1S- 71	00112: 0	0- 600h:	66: 66S2	024: 21N	0M42	dDw
. Ghocmb	1S- 72	- 21: 10N	- ShN4- 4	- 1- 46N2	- 14h4- 1	1M1S	dDw
I ds Cocmb	4: 71	: S2: N44	4062: : -	446: 1N:	40: 11h4	: M1S	dDw
I ds Cocmb	4: 72	1461: 6	144: 6S	144h: S	14: 222	SM10	dDw
I r PP Ccmb	N271	6h	N4	11h	hS	2NM10	dDw
I r PP Ccmb	0072	60	NS	11S	N6	2: M14	dDw
I r PP Ccmb	0N72	h:	Nh	6-	N2	2SM06	dDw
I dPdnC	2N71	14- 6- NN2	146- 640S	14N2NhSS	146Sh0: 1	1M0S	dDw
I dPr p	1S071	262:	1h60	2S10	22S-	16M04	dDw
I dPr p	1Sh71	22- 4	21: S	24SS	2261	: M0-	dDw
I nocmb	2- 72	11440-	1106- 1	1164Nh	1161hN	1M1N	dDw
I TpnCTcmb	N671	6- 0N2N	6: 42: 4	6444: -	64: : 12	1M2N	dDw
I TpnCTcmb	NN71	: 01N: N6	: N2SS0S	: 022612	: 0: - 0: 6	1M8S	dDw
I mPmp	- 471	2h60SN	- SS: - N	- SS000	2hh- 41	SM06	dDw
Ar pecmb	1: h71	1SN6h- 62	1S4N4hhS	h62h1h2	1S- 20N4N	6M1:	dDw
Ar pecmb	1: h72	41616S-	41- N- 0-	4SS- 42:	41S11- -	2M8N	dDw
AGs PPcmb	2S- 71	2: h2	2hSS	2: h2	26h:	6M01	dDw
AGs PPcmb	2S: 71	6N6h	6644	60h4	606h	1M0h	dDw
AdC	11N71	606S	6h00	01h4	6h00	- M11	dDw
AdS Ccmb	4071	N1N4-	N4h6S	N2401	N- Sh1	1M1N	dDw
RpsCcmb	2- N71	: 2- 0:	: 1N4S	: - 1h:	: 240S	1M1S	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1:	&dPnTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J44J46	&sTsUdP u sb r J	S64q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	6- 0S0	6- 044	6- 14N	6- : - -	SM-	dDw
YTTr pe omb	10271	1- SS0	120hS	1- : h1	1- 12h	- M16	dDw
YTTr pe omb	10272	6204	6- h1	61S0	62: 0	2M2N	dDw
YTTr pe omb	10671	h: N0	h012	h1h:	h4hN	2MM4	dDw
YTTr pe omb	10672	14664	14Nh2	14: 6h	140SN	1M-	dDw
YTTpomb	Nh71	146N4- 4S	1- 4S: 1: 0	12N6hhS:	1- 6: - 1- 4	6MM-	dDw
YTTpomb	Nh72	1- hh424	1- - N404	1- 21420	1- : - 1SN	- MS-	dDw
ZdCd	6672	46416	46: 2h	44hS4	4: h: S	1MM0	dDw
ZqpdnComb	hS71	2- 0: 4	2: 666	2: 1: 0	24N: h	- MMN	dDw
ZqpdnComb	h171	: 46S	: 026	: N: 1	: 60h	- M2	dDw

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On:7/14/2023 8:48:56 AM
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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdPP usb r J	S6: q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	6h02N:	6N: h6S	6NS0Sh	6N0hN:	1M4-	dDw
qCTb nCE	12171	2S2:	2- SS	210:	2160	6M6	dDw
qpwr Ccd	0: 72	- SS:	- 112	- S66	- S61	1M0:	dDw
Bspcmb	1- : 71	4Sh214	4ShNh-	- h062h	4S: : 0h	1M0S	dDw
Bspcmb	1- 071	02- 02N	02214-	02: hh0	02- h: 6	SM20	dDw
Br pEPPmb	h71	1: 2:	16- S	14h4	1: 4h	4M61	dDw
Bcwb mTG	2Sh71	6h10S02	62h1- - 2	662S1: 1	66Sh: 1N	4M04	dDw
Bcwb mTG	2Sh72	- 242N0N	- 2NSNN2	- 2S111S	- 24162-	1M4-	dDw
Bpmb cCr	N171	6N1N	0SS2	01N:	0SS2	2M62	dDw
5 sob cmb	1SN71	11-	121	1SS	111	hM44	dDw
5 sob cmb	1S671	41Sh	- h: h	44: h	4106	6M1:	dDw
5 sob cmb	11171	1: - 6	14- 2	1422	146-	4M-	dDw
5 sPlcmb	4- 71	62h- NS	6- 420h	6- 2664	6- 21S0	SMh	dDw
5 sPlcmb	4471	1S4- S4Sh	1SNS01- 0	1S- NNNS0	1S: 4211N	2M1h	dDw
5 spenC	1271	- : 62140	- 6S2- N0	- 6hS1h0	- 61N244	1MM1	dDw
5 spenC	1272	441SS	4: 01-	4- 1N1	44- - 1	2MMh	dDw
5 GPmpcCr	- : 71	1h: h- S- 1	2- : : 6: 6:	2: hhN0h:	2- S4h464	14M3-	dDw
5 GPmpcCr	- : 72	2S2hS6	2SNh00	21S044	2S0: 4-	1M1N	dDw
5 Gpmb cmb	: 272	- 10h:	- 21NS	- 210S	- 2S4N	SM0N	dDw
5 nesPT	: h72	- : N: 2	- 6Nh1	- : h2h	- 6224	1M0S	dDw
5 nDDr p	6- 72	6- 2: 0	6- - 44	6- 6Sh	6- 4S-	SM2h	dDw
&EwDpnwcmb	1: 671	: - 0Sh	: 4002	: 1hN:	: - 4Nh	2M0-	dDw
&EwDpnwcmb	1: 672	22Sh:	216: 1	21: : 1	21066	1M-	dDw
Fpecmb	16471	4S22S	4S20N	- h6- :	4SS4:	SMMh	dDw
Fpecmb	16472	161S0	1: h46	1: 0S-	1: h1h	1M2N	dDw
HsonPCcmb	16S71	4622-	461: 6	4: 44:	4: h41	SM14	dDw
HsonPCcmb	16S72	22- Sh	216h4	21: 24	21N42	1MMh	dDw
y nPb cmb	16: 71	1SSh- 0: h	Nh: N6h4	h441S42	h4h0N- 2	6M3S	dDw
y nPb cmb	16: 72	4142NN6	42: : N4S	42S66: S	42S10h2	1M:	dDw
tCocmb	11: 71	01006S2	6464NS4	6N021Sh	6N- N102	: M4-	dDw
tCocmb	11: 72	h: 0h6-	h6: S6h	h64: 14	h62: 16	SM41	dDw
tpnC	: 472	2- : : 26:	2- 6: 222	2- - N441	2- : 2h06	SMN	dDw
tpnC	: 672	424ShSh4	42- NS: 2h	42201466	42- : - 6h6	SM10	dDw
tpnC	: 072	1S11462	1S246NS	hh: : S6	1S1S: 4h	1M4:	dDw
KpEDTnC	N- 71	- S2	2hS	- 24	- S:	: Mh	dDw
Lr so	2S671	206S01	202NNS	20N: : 4	20: N- :	1M3-	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU16	&dPmTmC UsdTnpJ	1
&sT i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP usb r J	S6: q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	22hh- :	2- 102h	2- 22- 1	2- 12hN	SM12	dDw
Lr so	2SN71	1SNS1Nh	1ShShh4	1S0S60h	1SNS621	SM14	dDw
LdTGmb	671	2: : : 010	22hh- N0	2: 20411	246SN- N	: M01	dDw
9 sgOr wmb	2472	14: 1: N6	14- S2h4	14S41- N	142N60-	1M06	dDw
9 sOgsOr wr	: : 72	4N: 02S	4N: S- 4	4N2: 60	4N444S	SM14	dDw
9 nPEeor Omb	h471	1S62h	1ShNN	11S21	1SNNS	2M3S	dDw
9 nPEeor Omb	h: 71	: SS1	: 2Sh	: 16N	: 126	2M1:	dDw
9 nPEeor Omb	h671	6N6S	6NN:	6N6h	6N01	SM1h	dDw
9 nPEeor Omb	h071	- 110	- - h2	- 1Sh	- 2S6	: M3-	dDw
9 nPEeor Omb	hN71	00N6	N1- 6	0h- 6	0h: 2	2M21	dDw
u r noEb omb	1: S71	Nh0h2	hSS4N	hS: : 1	hS1- 1	SM4-	dDw
u r noEb omb	1: S72	2N226	20261	20N- 6	20004	1M0:	dDw
u dkr P	6S72	2S- - 1	1h: 60	1h644	1hN40	2M12	dDw
8 GhwDGhpmw	- 172	- 460	- 110	- 2N4	- 2Nh	: M12	dDw
8 nTswwmb	- h72	- 0: NS6	- 60: SS	- 0- S22	- 021Sh	1M14	dDw
. Ghomb	1S- 71	01- - SN0	6: 2h: SS	6h: 2- 2N	6N016- N	4M11	dDw
. Ghomb	1S- 72	- 21N066	- 21166S	- 22: h2:	- 21N0N-	SM22	dDw
l ds Comb	4: 71	46: 0Nh6	42S: N1S	4: h142N	44N: S44	: M44	dDw
l ds Comb	4: 72	14: NSh	14000N	140h44	140100	SMM1	dDw
l r P Comb	N271	1S6	11:	11h	11-	: M06	dDw
l r P Comb	0072	hS	12-	1S-	1S6	1: M1S	dDw
l r P Comb	0N72	N0	60	04	06	1- M:	dDw
l dPdnC	2N71	1- N1- h6-	1- N12SS:	146hhh- 1	141SN6- -	- M0-	dDw
l dPr p	1S071	22: h	22: S	2S2:	210N	6M3N	dDw
l dPr p	1Sh71	22N4	22- 4	21SS	22S6	4M1S	dDw
l nomb	2- 72	1122- S	111: : h	11Sh12	111: 60	SM1h	dDw
l TpmCTomb	N671	: 20hS2	: 2SN: h	: 1N06S	: 22: S0	SM12	dDw
l TpmCTomb	NN71	46N462-	4024: 6S	401011:	40SN066	SM4:	dDw
l mPmp	- 471	2h4S14	2h: S0h	2h: 66-	2h4h1N	SM2N	dDw
Ar pemb	1: h71	1S42S160	hS060N0	hNSS14:	h06: 6hh	6MMN	dDw
Ar pemb	1: h72	4Sh1011	412: h20	4S6N1: 2	4Sh: 26-	SM01	dDw
AGsPmb	2S- 71	212:	2S- 4	2- 0:	210N	NM12	dDw
AGsPmb	2S: 71	: : 1S	: 2N:	: 4h-	: 42h	2M11	dDw
AdC	11N71	: 0- :	: 0: 1	0- - h	620:	14M0h	dDw
AdS Comb	4071	64hS0	6- 042	6- - hh	64S16	1M2-	dDw
RpsComb	2- N71	420N1	4- 2- 2	42NhS	42h6N	SM1:	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU16	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J40J4-	&sTsUdP u sb r J	S6: q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	: N: 26	6SN: :	: h4- -	: h6S:	1M10	dDw
YTTr pe omb	10271	1Sh6-	112NN	1S46-	1ShS:	- MM1	dDw
YTTr pe omb	10272	: 10h	: 212	: SS0	: 1- -	2M1:	dDw
YTTr pe omb	10671	N21h	0N2N	N2: -	N1SS	2M12	dDw
YTTr pe omb	10672	1- 004	14S- S	1411h	1- h04	1M2N	dDw
YTTpomb	Nh71	1- : 00106	12- 01SN4	1- S6N- S6	1- SS: : 22	4M06	dDw
YTTpomb	Nh72	1- 20S1S	1- - 6N2S	14S61: S	1- : 666S	- M1N	dDw
ZdCd	6672	- 0N64	- 6- 1-	- 0Nh4	- 0- : 0	2M42	dDw
ZqpdnComb	hS71	210: h	21N: h	2S: 4h	21- Nh	- M41	dDw
ZqpdnComb	h171	4N6N	4hS1	44: 1	404S	: M2h	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdPP usb r J	S66q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCmb	2072	0h6: : :	0NNS: h	0N2h2h	0Nh1N1	SMM0	dDw
qCTb nCE	12171	10SS	1h: S	1NSS	1N10	6M1-	dDw
qpwr Cd	0: 72	- S14	2hSh	2h20	2h: S	1M1S	dDw
Bspmb	1- : 71	0S: : : :	01ShNh	01hh4:	01216-	1MS2	dDw
Bspmb	1- 071	12011S1	120406:	120112:	1202- - S	SM10	dDw
Br pEPmb	h71	02N1	0SSS	042N	02- 6	- MS1	dDw
Bcwb mTG	2Sh71	60- 6NhS	6N11066	0S4SSN6	6N62h14	2M1S	dDw
Bcwb mTG	2Sh72	- 1221S6	- - 401: 1	- 2Nh- : 0	- 2: 2N02	- M1h	dDw
Bpmb cOr	N171	h10N	h: 62	1S4- 0	h026	6M04	dDw
5 sob mb	1SN71	2S4	10:	2- N	2S6	1: M22	dDw
5 sob mb	1S671	: 1- 4	: 46S	: S: 1	: 21:	4M14	dDw
5 sob mb	11171	22N0	2- 6h	2414	2- : 0	2M0-	dDw
5 sPdmb	4- 71	22- S: 6	22NSh-	22N- h6	226: 1:	1M12	dDw
5 sPdmb	4471	- Nh1Nh:	- 0h- S2-	- h26NN2	- N0S6SS	1M0h	dDw
5 spenC	1271	- hN6S0-	42S: - 4h	424NN1N	4146040	- M1S	dDw
5 spenC	1272	: 21: 2	: 2S06	: 204:	: 2- 24	SM0S	dDw
5 GPmpcOr	- : 71	210h- SN0	2: 6h0- N0	2N1h: hS2	2: 22N0h2	12M0h	dDw
5 GPmpcOr	- : 72	2214: S	22- 02:	220- : 6	224100	1M-	dDw
5 Gpmb mb	: 272	244- 4	2400:	240S:	246- N	SM0-	dDw
5 nesPT	: h72	- 02h6	- 06: S	- 0NS-	- 0: N-	SM0h	dDw
5 nDDr p	6- 72	6: - 0S	6424N	6- h- 0	64: 1N	1M10	dDw
&EwDpnwmb	1: 671	- 0N4S:	- N00N1	- N420:	- N- 4N0	1M24	dDw
&EwDpnwmb	1: 672	161- - 6	1: 0: hh	1: h1: 4	1: h- 6-	1M1N	dDw
Fpemb	16471	- ShN04	- 12644	- 21: hh	- 140S6	1M1:	dDw
Fpemb	16472	12h: hN	12N: 46	12: 046	120h6-	1M16	dDw
HsonPCmb	16S71	- 2: 4- 6	- 2SN06	- 2: - 64	- 2- Nh2	SMM1	dDw
HsonPCmb	16S72	1: 42NS	1: 424h	1: SNNh	1: - 1- h	1M20	dDw
y nPb mb	16: 71	h: N6SNN	hh64N2h	1S- N26: 0	hh00N: N	- M1h	dDw
y nPb mb	16: 72	4S: - - 0-	42: 0244	4- - 4- N1	4214hhh	- M14	dDw
tComb	11: 71	0Sh- 44:	011- 6N4	020N: SN	0161N0h	1M12	dDw
tComb	11: 72	h- N- 06	h6006h	h0N4: 1	h61: - 2	2M16	dDw
tpnC	: 472	4S- 6410	41: 416h	4S12- Sh	4S606- 2	1MM0	dDw
tpnC	: 672	0- h4- 4: 0	0- - N6: S4	0- - h- S- N	0- : 04- - -	SM1-	dDw
tpnC	: 072	1h2NNS0	1N66111	1Nh620N	1Nh0S6:	1M0:	dDw
KpEDTnC	N- 71	6N1	0S1	6h:	6h2	1M1N	dDw
Lr so	2S671	424- 0h	422N0h	42NN6:	42: - 0:	SM0-	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU10	&dPmTmC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP usb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	- 4NhSh	- : 1: - 2	- : 12h:	- : S: 0h	SM41	dDw
Lr so	2SN71	10S16- h	16h211h	10241hh	10S: hN6	SM10	dDw
LdTGmb	671	24hS: NS	24NShN2	2610N4N	2: 2hNS-	- MS2	dDw
9 sgOr wcmb	2472	6042SN	60- h40	66Nh2N	602- 61	SM44	dDw
9 sOgsOr wr	: : 72	20- h- 40	2064h02	2021: 42	2041h: 4	SMMS	dDw
9 nPEeor Omb	h471	1- 2: 0	1- 66:	1- N- 2	1- : N:	2M1N	dDw
9 nPEeor Omb	h: 71	h4N0	1SS46	h: 62	h6hN	- M1-	dDw
9 nPEeor Omb	h671	11- 40	11064	116h0	116S2	1M1-	dDw
9 nPEeor Omb	h071	: h- :	61h-	6S1N	6S4h	2M1N	dDw
9 nPEeor Omb	hN71	1: : S1	14h: S	14060	1: S02	2M-	dDw
u r noEb cmb	1: S71	601: NN	6N- - 00	6NhS6h	6N1- 4:	1M1	dDw
u r noEb cmb	1: S72	21S: 1:	2S01N-	2S4: SN	2S04S2	1M4:	dDw
ucdkr P	6S72	10011	104S1	10- 61	104h1	1M1S	dDw
8 GhwDGhpmw	- 172	- 1- 4	- - SS	- 242	- 22:	2M62	dDw
8 nTswwcmb	- h72	0- 66h:	040: 6h	0- 1SSS	0- N421	1M14	dDw
. Ghocmb	1S- 71	6N40614	0S: 6NNN	02: N2: 4	0S: 42: 2	2M11	dDw
. Ghocmb	1S- 72	- S0N2- 6	- 1h- N: h	- 20- Sh:	- 1N10- S	- MSN	dDw
I ds Cocmb	4: 71	46: N64S	46: Sh00	40N116-	46h6h20	1M16	dDw
I ds Cocmb	4: 72	1420- 1	14010-	1: 1N44	14024h	- MSh	dDw
I r P Ccmb	N271	412	41S	46:	42h	0M24	dDw
I r P Ccmb	0072	02S	01-	6hS	0SN	2M-	dDw
I r P Ccmb	0N72	4: 1	: 2S	401	4N1	0Mh	dDw
I dPdnC	2N71	14: S410:	1: 42: 6- 4	14hN44- -	14h01414	- MSN	dDw
I dPr p	1S071	2210	22: h	2S42	2102	: M2h	dDw
I dPr p	1Sh71	2110	2: 60	2S: h	2240	12MN	dDw
I nocmb	2- 72	4461h	44Sh2	4- : N2	44ShN	1M1N	dDw
I TpnCTcmb	N671	160- 6S	10- : : 2	104112	10160:	2M1N	dDw
I TpnCTcmb	NN71	1: N: S1-	1: 04: - N	1: 0: 0SS	1: 0N410	SM16	dDw
I mPmp	- 471	2NN266	2h1S0-	2N4- 16	2N0NN:	1M1N	dDw
Ar pecmb	1: h71	hNNh: 04	1S1h4N: 2	1S244S46	1S1Sh4h1	1M1S	dDw
Ar pecmb	1: h72	- h0- 60h	42- 402:	4210462	4141h: :	- M12	dDw
AGsPPcmb	2S- 71	- - 60	- - 60	- - - 4	- - : 6	SM10	dDw
AGsPPcmb	2S: 71	N- : -	0hh4	N: - 6	N2h:	- M12	dDw
AdC	11N71	16- 00	102- 0	16: 20	16014	2M0:	dDw
AdS Ccmb	4071	4616h2	4NS262	40h402	40- NSh	2M42	dDw
RpsCcmb	2- N71	1S2- 2N	1S- N0:	1S62N:	1S416-	1M11	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S-	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU10	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J SJ41	&sTsUdP u sb r J	S66q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	404- :	4NS4S	46120	402S1	2N30	dDw
YTTr pe omb	10271	h: 2N:	h- - 46	hNh6-	h: N6:	2M1N	dDw
YTTr pe omb	10272	40S61	461S2	44N21	4: hh:	2M14	dDw
YTTr pe omb	10671	622: 6	: hh0h	61- 4-	611h-	1MN0	dDw
YTTr pe omb	10672	- h0S4	4S12N	4S: 2-	4S11N	1N32	dDw
YTTpomb	Nh71	16Nh: Shh	1022N: h:	1006N- S-	102h0- - 2	2M:	dDw
YTTpomb	Nh72	1046112	10hSN20	10h- 2- 2	1006024	1M1h	dDw
ZdCd	6672	h1S: 4	h1: h0	h2SS-	h1: : 1	SM12	dDw
ZqpdnComb	hS71	2224-	22h: -	2- h: 4	2- S: S	- N0-	dDw
ZqpdnComb	h171	: S26	4N4-	: 21N	: S2h	- N0-	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdPP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	N- - 0h:	N16h: 0	N1: - : :	N22S- :	1M24	dDw
qCTb nCE	12171	10SS	160:	1NSS	102:	- NM-	dDw
qpwr Ccd	0: 72	- 1: S	- SNh	- Sh0	- 112	1NS0	dDw
Bspcmb	1- : 71	0: : 02N	0- hhh:	0: h42-	0: 1016	1M0	dDw
Bspcmb	1- 071	1- - 0h- N	1- - - 22N	1- 42NNh	1- - NS1N	SM6	dDw
Br pEPPmb	h71	0- 4:	0411	0: : 2	04- 6	1M4-	dDw
Bcwb mTG	2Sh71	6641NN4	6h4- 12:	6h126: :	6N- 2: : :	2M4-	dDw
Bcwb mTG	2Sh72	- - S6460	- - 4h26S	- 2212: :	- 2h2- 20	1MN	dDw
Bpmb cOr	N171	1S: 01	11- 6-	11h- S	112NN	6NS:	dDw
5 sob cmb	1SN71	160	10h	101	102	- N0S	dDw
5 sob cmb	1S671	: - S1	: 11N	: - h-	: 201	2N06	dDw
5 sob cmb	11171	2: h-	20S0	26hh	2666	2M4S	dDw
5 sPlcmb	4- 71	2- 4h0N	2- : NS1	2- 6646	2- : NSN	SM:	dDw
5 sPlcmb	4471	- hh40SS	- h1N2Sh	41Sh0S4	4SS0: - N	2M41	dDw
5 spenC	1271	442604N	4: 00: 10	462S1N1	4: 414N2	2M24	dDw
5 spenC	1272	: : 04N	: 40S2	: 44N:	: 4h0N	1M2-	dDw
5 GPmpcOr	- : 71	2- : 110N6	201- 6606	2h222161	2662- : 41	1SNM:	dDw
5 GPmpcOr	- : 72	22- h0h	22NN46	2- 6: - -	22h0N6	2N0:	dDw
5 Gpmb cmb	: 272	2: 6N6	261S1	2: 22h	2: 602	1N0S	dDw
5 nesPT	: h72	- NSh1	- N241	- 04h-	- 0h42	1NS4	dDw
5 nDDr p	6- 72	64h- :	6- N1-	64SN4	64200	SM1	dDw
&EwDpnwcmb	1: 671	- N16- -	- N1h41	- NhS- S	- N42S1	1NSh	dDw
&EwDpnwcmb	1: 672	1: h- 1N	1: h6- 6	1: h6N1	1: h: 4:	SM12	dDw
Fpecmb	16471	- 1S- 6N	- 221: 2	- 22421	- 1N- 14	2M16	dDw
Fpecmb	16472	126hS2	1264hh	126N2:	126042	SM10	dDw
HsonPCcmb	16S71	- 2: 666	- 2- S- 1	- 24: 2:	- 244S0	SM41	dDw
HsonPCcmb	16S72	1: - N61	1: 4hh:	1: 1: S6	1: - 4: 4	1M16	dDw
y nPb cmb	16: 71	h6661Sh	hh4- hS1	1SS40: 62	hNN: N: 0	2NSS	dDw
y nPb cmb	16: 72	4- N166h	4- 2: 4h0	42S6: - h	4- S4: 6N	2NSN	dDw
tCocmb	11: 71	6hNN4SS	012: 6h-	0- N200h	016: 624	2N0h	dDw
tCocmb	11: 72	hN: : S2	hN2N- :	hN44: 6	hN426:	SM14	dDw
tpnC	: 472	421hh6S	42NS: N1	4- 266hh	420: 040	1M2:	dDw
tpnC	: 672	00: 660N:	0N1: SSh6	00- 0N1: 0	006hN- 46	SM12	dDw
tpnC	: 072	2S26: 6:	2S22: hh	2S14011	2S212h2	SMS	dDw
KpEDTnC	N- 71	602	6: 2	014	6NS	4N0S	dDw
Lr so	2S671	4- 01N-	4: - N- h	44- : S-	444N42	1NNh	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 y SU1N	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J- J- 6	&sTsUdP usb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	- 62S- N	- 6: 0S6	- 6: - 24	- 64- : 6	SM:	dDw
Lr so	2SN71	104- h- h	1004104	10062N6	1064NSS	1N8-	dDw
LdTGmb	671	2: S: 002	26S- : 0:	2: 442SN	2: : 11N:	1M1-	dDw
9 sgOr wcmb	2472	66h11N	66: 002	66- Nh-	666261	SM4S	dDw
9 sOgsOr wr	: : 72	2N1- 04-	2N62: - S	2N41N- -	2N- h- 6h	SMN6	dDw
9 nPEeor Omb	h471	10h16	1- 46:	144N-	1: 2NN	1: N2:	dDw
9 nPEeor Omb	h: 71	hN62	hN62	1S212	hh0h	2N8-	dDw
9 nPEeor Omb	h671	116- N	12Sh0	12240	11hh4	2N04	dDw
9 nPEeor Omb	h071	6- 20	616S	: h6N	61: 2	2M12	dDw
9 nPEeor Omb	hN71	1: hS1	1: 4h2	1: h6N	1: 0N0	1N0-	dDw
u r noEb cmb	1: S71	601006	6Nh- 0h	6N2: : :	6N12- 0	1MS	dDw
u r noEb cmb	1: S72	2SNhSh	2S: N22	2S6h- 2	2S0221	SM0:	dDw
u cdkr P	6S72	10h6N	1NS11	10NSN	10h2h	SM0S	dDw
8 GhwDGhpmw	- 172	- 2N4	2N42	- 1h2	- 1S6	0M1	dDw
8 nTswwcmb	- h72	6h: 01-	6h1h- S	6h21h0	6h- 2NS	SMS	dDw
. Ghocmb	1S- 71	6NN46S1	021: - h0	024hS6-	0116- : -	2NN-	dDw
. Ghocmb	1S- 72	- - - 11: 1	- - 1h260	- 21N4- -	- 2Nh610	1NN	dDw
I dsCocmb	4: 71	40SN044	4661h1S	4002- 6-	4014- - h	1M1N	dDw
I dsCocmb	4: 72	1: 242S	1: 11NS	1: 1440	1: 16N2	SM4-	dDw
I r P Comb	N271	444	: 62	- h0	46N	1NM1h	dDw
I r P Comb	0072	6NS	6: S	60-	66N	2M6	dDw
I r P Comb	0N72	4: 1	406	461	46-	2N02	dDw
I dPdnC	2N71	164- 1hS:	1601hSS2	16N: h- 1:	1660SS04	1M1	dDw
I dPr p	1S071	2: : h	24: h	242:	24N1	2NNS	dDw
I dPr p	1Sh71	240:	2- 60	202:	2: 2-	0N2h	dDw
I nocmb	2- 72	6: S- 0	646S2	64216	6461N	SN04	dDw
I TpnCTcmb	N671	1N: - 06	1NN- 04	1N62- 1	1N666S	SMN-	dDw
I TpnCTcmb	NN71	10SSS60	16N- 2S2	1606- 04	16N6: 4N	SN02	dDw
I mPmp	- 471	20h012	2060: h	20- N- :	20606h	1N86	dDw
Ar pecmb	1: h71	1SS16S12	1SS: 4- hN	1S1- 4hh0	1SS6N46h	SM0S	dDw
Ar pecmb	1: h72	424162-	42- : S10	4101421	4216S2S	SM12	dDw
AGs PRmb	2S- 71	- 6: 1	- h: 1	- hh2	- N6:	4NN-	dDw
AGs PRmb	2S: 71	h1N0	NN0N	hSN0	hS: 1	1N04	dDw
AdC	11N71	2: : h1	24NhS	26- 6N	2: 616	2NNh	dDw
AdS Comb	4071	: Sh420	: S- 01-	: S01NN	: S6006	SM10	dDw
RpsComb	2- N71	1S4h66	1S6: h:	1S: 62S	1S: 020	SN0N	dDw

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LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4407S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 y SU1N	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J - J- 6	&sTsUdP u sb r J	S60q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	: 172	4N6: h	4h1: 4	406S2	4N402	1M04	dDw
YTTr pe omb	10271	h04h2	h6h40	h: 6: -	h66h0	SM1N	dDw
YTTr pe omb	10272	40: : N	402SS	464S4	40S: 4	1M26	dDw
YTTr pe omb	10671	62S22	61661	641hS	62624	2M1N	dDw
YTTr pe omb	10672	41: 16	- h: S4	41621	4SNNS	2M12	dDw
YTTpomb	Nh71	16h1S0: 6	10- NSh6S	10- 06- 22	1022260h	1M10	dDw
YTTpomb	Nh72	1N41hN2	1NSh264	10N4: NN	1N11h44	1M1h	dDw
ZdCd	6672	hNh- :	h61h4	hNS1h	h0016	1M4-	dDw
ZqpdnComb	hS71	21060	221N:	22N11	222: 4	2M16	dDw
ZqpdnComb	h171	4NSh	: S06	: S4-	4h06	2M12	dDw

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LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
qPmb oCcmb	2072	661N6h	6 N10	6 - N44	6 0106	SM04	dDw
qCTb nCE	12171	- h26	- N h	- 610	- NS1	4M20	dDw
qpwr Ccl	0 72	hhh	hS2	h10	h- h	SMMN	dDw
Bspcmb	1- 71	126N	Sh4S1	112-	111S0	SM12	dDw
Bspcmb	1- 071	NN 020	hS1NSN	Nhh42S	Nh 6 2	SM10	dDw
Br pEPPmb	h71	20h0	20S	26 6	202S	2M04	dDw
Bcwb mTG	2Sh71	6h2h006	0104NS0	0Sh- 6h0	0S66Sh-	1M00	dDw
Bcwb mTG	2Sh72	- 2 1hN	- 262040	- 2SN24	- 24Shh2	SMMh	dDw
Bpmb oCr	N171	02N	0 6h	00- 6	0 - S	- MS2	dDw
5 sob cmb	1SN71	20	20h	201	20	1M1	dDw
5 sob cmb	1S671	4626	4242	42 1	4- 0-	MS1	dDw
5 sob cmb	11171	- 162	- 112	- - N2	- 21h	4M	dDw
5 sPlcmb	4- 71	40N26h	4N1 64	4N- 14S	4NShh1	SM12	dDw
5 sPlcmb	4471	NShS04S	NShShh-	N104422	N11N01N	SMh	dDw
5 spenC	1271	422 - N	011- 0S	N2hN0S	6 4 h-	- M01	dDw
5 spenC	1272	6h 1	6h- 64	6hS2h	6h- S-	SM16	dDw
5 GPmpcOr	- 71	2- 4hN- 1N	201h0h11	2h2 h20S	266 1N- -	1SM1	dDw
5 GPmpcOr	- 72	22 N41	220S60	2- 1h0N	22N2h	1M12	dDw
5 Gpmb cmb	272	4S6 N	- Nh0-	- h0N	- hNS	2M12	dDw
5 nesPT	h72	61010	61- 1	6SS0S	61S- 4	1M41	dDw
5 nDDr p	6- 72	2Sh- 12	21Sh 1	2S66h1	2SNhN	1MS-	dDw
&EwDpnwcmb	1 671	6h0 S	011hN	01S4N	0S66	1M1-	dDw
&EwDpnwcmb	1 672	2N4 S	2h- 22	2h2hh	2hS24	1M01	dDw
Fpecmb	16471	h 2	NNhN	hh 2	h4 N	SMMh	dDw
Fpecmb	16472	2- hN	2- h-	241N2	24S- 4	SM4	dDw
HsonPCcmb	16S71	6- hNN	64S1-	6444N	641 S	SM4S	dDw
HsonPCcmb	16S72	2h S6	2h Sh	- S012	2hhSh	2M12	dDw
y nPb cmb	16 71	1S1S4- h	1SS1hN 2	1SS- 0N0	1SS - - 44	SM4	dDw
y nPb cmb	16 72	41N 1N6	414- 62	41- NN2-	41 N0N	SM01	dDw
tCocmb	11 71	0 S2N 2	0- hS h6	0- 21h2-	04S 124	1M4-	dDw
tCocmb	11 72	h N240	h- NNhS	h - 4h0	h S211	1MS6	dDw
tpnC	472	- hN110	- N44 66	- N0- 2hh	- Nhh6NS	1MM	dDw
tpnC	672	01 S N	011N 01	6h- 0N01	0S6N- S 0	1M04	dDw
tpnC	072	1N40421	1N- 14- 4	1N1h0-	1N- 2N6-	SM06	dDw
KpEDTnC	N- 71	- 20	- -	- - 4	- - 2	1M21	dDw
Lr so	2S671	4- 4 -	66	N0- S	2 N-	1M46	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SU21	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J-	&sTsUdP:usb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	462SSh	460h6	46- 441	464402	SM60	dDw
Lr so	2SN71	216S216	21h0NS0	21N- 6 -	21NS h	SMM0	dDw
LdTGmb	671	2 Nh6hN	262146N	264h004	262S- 1-	1M1	dDw
9 sgOr wmb	2472	16 S6NN	1626 20	164N6S-	1641h- h	SMM2	dDw
9 sOgsOr wr	72	122h22S	11hNS16	12S24hN	12Shh11	1M1h	dDw
9 nPEeor Omb	h471	10144	106S-	10N0S	10 - h	2M8h	dDw
9 nPEeor Omb	h 71	1ShS	1S001	1S0NS	1SN1N	SM0h	dDw
9 nPEeor Omb	h671	126N1	1- 61	1- 6S0	1- - S1	4M84	dDw
9 nPEeor Omb	h071	601N	6N-	60 2	606N	SMMh	dDw
9 nPEeor Omb	hN71	104h	1020N	16N6h	10214	1MM	dDw
u r noEb omb	1 S71	111- h1	11 62N	112hh0	11- - - h	1MMh	dDw
u r noEb omb	1 S72	- 42 S	- - - N	- 4N12	- 414S	2M1	dDw
u dkr P	6S72	- - h 4	- 41- 4	- - h44	- 4S11	SM1	dDw
8 GhwDGhpmw	- 172	0h20	0 S2	NS00	0N- 6	- MM1	dDw
8 nTswwmb	- h72	N2N0S	0 0N6	h1S- 1	N- 22h	1M1	dDw
. Ghomb	1S- 71	020 Sh6	02106S4	01016N-	0221461	SM02	dDw
. Ghomb	1S- 72	- 16N S	- 1hh21	- 1NN01-	- 1N 4h-	SM4h	dDw
I dsComb	4 71	4N016 h	46N212S	4N1N- N-	40hS02S	2M84	dDw
I dsComb	4 72	14 N0h	14 2- 6	14 SS-	14 - 0-	SM1	dDw
I r PPomb	N271	226	24S	2- h	2-	- M24	dDw
I r PPomb	0072	10S	140	12-	140	1 M1	dDw
I r PPomb	0N72	1S6	12-	116	11	0M4-	dDw
I dPdnC	2N71	140NN- N0	14h10- 66	1 S- 02Sh	14h14- 21	SMM-	dDw
I dPr p	1S071	4- N4	4 06	444-	4460	2M2S	dDw
I dPr p	1Sh71	41- 4	44N4	4- - 4	4- 10	4M80	dDw
I nomb	2- 72	6h010	602h0	66S60	606h4	2M04	dDw
I TpmCTomb	N671	2h1641	2Nh061	2h4S2N	2h1N1S	SM0-	dDw
I TpmCTomb	NN71	2600NS-	261- 1N2	266h4- N	26 - 404	1M2	dDw
I mPPmp	- 471	- 1S4 1	- 102- 4	- 1- S0-	- 1- N6	1M8h	dDw
Ar pemb	1 h71	1S64- hS-	1S1 0N44	1S- 40S 6	1S- N2h- 4	2M6	dDw
Ar pemb	1 h72	4SN S- 2	4S - - -	4Sh14	4S0661-	SMS	dDw
AGsPPmb	2S- 71	- S42	- S S	- S h	- S S	SM20	dDw
AGsPPmb	2S 71	661S	0044	6hN	011-	NM2	dDw
AdC	11N71	h14	h4 4	h20N	h2h2	1M60	dDw
AdSomb	4071	h 1 0	h4646	h46 -	h4N1h	SM1	dDw
RpsComb	2- N71	61SN1	6- - S1	610N	62S 6	1MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SU21	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:1 J 6J- -	&sTsUdP:u sb r:J	S6Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	172	NSN2-	NS4SN	NSS06	NS4- 6	SM40	dDw
YTTr pe omb	10271	1N6- S	1N664	1N0S	1N666	SM2S	dDw
YTTr pe omb	10272	h2 h	NhhN	h2S-	h1 -	1MS	dDw
YTTr pe omb	10671	1- - 04	1- 666	1- 1- 2	1- - hS	2M8S	dDw
YTTr pe omb	10672	166- N	16N60	16hh	16N- -	1M80	dDw
YTTpomb	Nh71	14- h41- 2	1- N112N-	14Sh2h21	14Shh446	2M80	dDw
YTTpomb	Nh72	14- hS N	14S2S6	142- SN	1421 44	1M1	dDw
ZdCd	6672	hh62N	hN N0	hh110	hh111	SM2	dDw
ZqpdnComb	hS71	- S406	2h04h	- S442	- S222	1M6	dDw
ZqpdnComb	h171	64h-	6- 6N	6N00	6 NS	4M8-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
d8be q dpe	2072	4a00- 0	: S: - u-	: SS2: 6	: S112:	SR0u	Ol l
d. iqe C. E	12171	- 606	- u- 4	- 6- 4	- 01:	2Ru4	Ol l
dll p. qO	0: 72	6014	66a6	60a4	60- :	SR00	Ol l
Bwldpe	1- : 71	- : S426	- : 21a:	- 4: : 46	- 4a- ua	SRaa	Ol l
Bwldpe	1- 071	620a: :	61: 266	61: 6Su	61a61S	1R10	Ol l
BplE&pe	a71	2- 4:	2- 64	220:	2- 2u	2RS1	Ol l
Bdqe biG	2Sa71	66Saa6u	6a: Su4:	6ua: - 0u	6u1u0- S	2R6u	Ol l
Bdqe biG	2Sa72	- 201u- 4	- 2S1uau	- - 2211u	- 26: 2u-	1Ru:	Ol l
BlCe q p	u171	611u	66- :	616u	6- S0	4R.2	Ol l
9 wne dpe	1Su71	160	22:	260	21a	22Rua	Ol l
9 wne dpe	1S671	41u4	446u	4- u4	4- 4:	- R :	Ol l
9 wne dpe	11171	2: au	2u2-	26aS	20S-	4Rla	Ol l
9 w&Odpe	4- 71	: - u1: u	: 4Su0u	: - 26- :	: - 0224	SR0u	Ol l
9 w&Odpe	4471	aS2016S	a- S1661	ua2- 120	aSu- au-	2R1:	Ol l
9 wlr C.	1271	- 2aaaS6	- 41- 241	- - 2S- 1:	- - 444u0	1Ru1	Ol l
9 wlr C.	1272	4S- 64	4SS14	4S4ua	4S2ua	SR61	Ol l
9 G&Clq p	- : 71	226u: uu4	26a402Su	2u060- 2a	261- - 404	11Ra4	Ol l
9 G&Clq p	- : 72	210- 0-	22- S- 1	22: 2ua	221uau	1Ru4	Ol l
9 GlCe dpe	: 272	- 216-	- 10S:	- 2Saa	- 1aua	SR0u	Ol l
9 Cr w&	: a72	020- 1	02S6u	012- 0	02S12	1RS4	Ol l
9 Ct t pl	6- 72	1auu: 0	1a: 024	1a6u01	1a01: 1	SRuS	Ol l
TEl t lCl dpe	1: 671	60022	0S- 1S	660a-	6u20:	2R60	Ol l
TEl t lCl dpe	1: 672	2u166	20006	2u21S	2uS: 1	SRu:	Ol l
Ulr dpe	16471	: 0ua4	: 02- 2	: a: a2	: u2- a	2RSa	Ol l
Ulr dpe	16472	2- u0:	2- a02	2- 6: 4	2- u- 4	SR6u	Ol l
HwnC&q dpe	16S71	61u2u	: au26	61- : S	61SS1	1R01	Ol l
HwnC&q dpe	16S72	2aS4:	2a: 4-	2a12:	2a2- u	SRa1	Ol l
h C&e dpe	16: 71	a2: S: : a	a02a6u0	aaS4uu6	a62u- 00	- R.2	Ol l
h C&e dpe	16: 72	41414u2	41606a4	4- 1uS01	42SaSu2	2R26	Ol l
& ndpe	11: 71	60: 004u	6a6: - 6a	01210: 6	6a4u2a1	2R6-	Ol l
& ndpe	11: 72	a: 2: - 6	a: 466:	a6- u22	a: 0SSu	SR6-	Ol l
&C.	: 472	- aa1aSS	- u- : 1S:	- u: 6- 40	- ua44: 1	2R1u	Ol l
&C.	: 672	0S01- 1: 0	6a2uSS00	0SS- u: 1:	0SS1S: u-	1RS2	Ol l
&C.	: 072	1u62a00	1006402	1uS6u2a	1u1: 426	2R42	Ol l
KIEt iC.	u- 71	- 66	- - 0	- 10	- 4S	0R2S	Ol l
Lpwn	2S671	: 1uS- u	: 1au2u	: 10- 1u	: 1u- a:	SR2:	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	42- 226	42a: u4	42a1a4	420- - :	SRu-	Ol l
Lpwn	2Su71	2S110Su	2S- 6122	2S2u10:	2S2: - - :	SR61	Ol l
LqiGdpe	671	2401104	2: 6S: aa	2: uS11S	2: - 02a4	2R2a	Ol l
y wg. pl dpe	2472	1216- 4:	12- 2110	12261Sa	1224u: 0	SR6:	Ol l
y w. gw. pl p	: : 72	16aSS6:	166a04u	160u66S	160a4a1	SR61	Ol l
y O&Er np. be	a471	2SS1:	2S016	2S: 04	2S4- :	1Ru1	Ol l
y O&Er np. be	a: 71	14u2:	1: 1Sa	140: u	14ua0	1R2:	Ol l
y O&Er np. be	a671	1uu1-	1u2: 4	1u66-	1u: 00	1R6	Ol l
y O&Er np. be	a071	a- 2S	a: 0S	a62a	a: S6	1R02	Ol l
y O&Er np. be	au71	240- a	24614	242uS	24: 44	SRa0	Ol l
mpOnEe dpe	1: S71	11S40u	11Su6u	1S0: 2u	1Sa624	1R60	Ol l
mpOnEe dpe	1: S72	- - 4S:	- - : 0:	- 2040	- - 242	1R2	Ol l
mqOkp8	6S72	- au1a	4S1u0	4S11-	4SS4S	SR4a	Ol l
NGOl t GOlbl	- 172	: 206	: : Sa	: 1: a	: - 1:	- R :	Ol l
NOiwl dpe	- a72	- - 4- 12	- 216a1	- - SSau	- 2u0SS	1Ra:	Ol l
F GOndpe	1S- 71	64u0: : S	0S1S2- S	0S1: u0a	6u- 0uu6	4R44	Ol l
F GOndpe	1S- 72	- 21- 0S0	- 2S: 6S4	- 2- 210-	- 210161	SR42	Ol l
DOw. ndpe	4: 71	4- 4a6uS	46a: u- 2	4: 460: :	4: - S0: 6	- Ru-	Ol l
DOw. ndpe	4: 72	146: - :	14a- 0u	140- 0u	140064	SRaa	Ol l
Dp&p. dpe	u271	2: 6	214	2: 0	242	1SR20	Ol l
Dp&p. dpe	0072	12-	14S	1: 0	14S	11RaS	Ol l
Dp&p. dpe	0u72	1S1	111	1S-	1S:	: RS4	Ol l
Dq&qOC.	2u71	1Sa01616	11- : 14a-	1Sau0Su4	111S- - au	1Ra4	Ol l
Dq&vpl	1S071	: 126	40u4	: S- 4	4au2	- R :	Ol l
Dq&vpl	1Sa71	4uS1	4a06	4a: a	4a12	1Ra0	Ol l
DOndpe	2- 72	06a4:	0u062	0u126	00a44	1R1u	Ol l
DilC. idpe	u671	20S214	26u4u:	26a- : 2	26a- : S	SR2	Ol l
DilC. idpe	uu71	24: 2: 1:	24u2: : u	2460- - a	2460401	SR61	Ol l
Db&bl	- 471	: 60: 00	: 0u0: 2	: 0- aaS	: 0- 4- a	SRau	Ol l
cplr dpe	1: a71	a6- 0: : 1	1SSa1Saa	1SS646S0	aa- 1Su6	2R6	Ol l
cplr dpe	1: a72	- a66416	4S1SS12	4S0u0SS	4S1u- 06	1R41	Ol l
cGw&&pe	2S- 71	2460	20: S	26: S	262-	: R4u	Ol l
cGw&&pe	2S: 71	6220	61a-	: u00	6Saa	- R10	Ol l
cq	11u71	a012	au- 0	a2a:	a61:	2Ra:	Ol l
cqiw. dpe	4071	04400	02a1a	0- 0aa	0- 0- 2	1RS6	Ol l
5 lw. dpe	2- u71	6a6- -	6u0a:	666u4	6u- 01	2R22	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4407S6	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y h SM22	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: J aJ- S	TwiwMd&p mwe p J	S6ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	: 172	01a00	02141	012u0	01uS1	SR6-	Qtl
Yiiplr dpe	10271	1u4: :	1a24u	1a114	1ua- a	2R24	Qtl
Yiiplr dpe	10272	a- : a	ua2:	uuSa	aS- 1	- R21	Qtl
Yiiplr dpe	10671	1- 26:	1- 616	1- 1: 0	1- - 46	1RuS	Qtl
Yiiplr dpe	10672	166ua	16u- -	16a: 6	16u26	SR0a	Qtl
Yiildpe	ua71	1- S2: SS1	1- : u41aa	1- 0a: 264	1- 46u1: 4	2Ra6	Qtl
Yiildpe	ua72	14121: S	14- 4200	141u: 4u	14216: u	SRuS	Qtl
Zq O	6672	u1660	u1600	u1- 2:	u1: : 6	SR2:	Qtl
Zq OC. dpe	aS71	- 21S:	- 2: uS	- 2112	- 2266	SRu4	Qtl
Zq OC. dpe	a171	02- :	026S	6a00	01: u	2R1a	Qtl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	2072	41y41S	4106S4	4141J0	410S60	SU64	ql w
cn&Amonh	12171	- 410	- E60	- 0Ey	- EJ1	4U0J	ql w
crwenAq	0E72	2- S6	22J0	22J6	22y-	SU4y	ql w
BsrAm	1- E71	- E6J0E	- EE- SS	- 406y4	- E- 2Jy	1UJy	ql w
BsrAm	1- 071	6- ES1-	6- - 20y	61y- 21	62y2SE	1UJ0	ql w
BerhRAm	y71	- JEJ	- y- y	- 00-	- JE6	2U16	ql w
BAmu&G	2Sy71	6J661- y	6JJ- S6E	6y61ySJ	6yS- 0S4	SU04	ql w
BAmu&G	2Sy72	- 1J02E2	- 2S44S1	- 2- 1S12	- 2S0EEE	SU6y	ql w
BromAne	J171	EyS1	EyS1	E0- E	EJ46	1U6E	ql w
RsOmAm	1SJ71	- E4	- ES	2J-	- 2y	12USJ	ql w
RsOmAm	1S671	441J	46Sy	4JS1	46Sy	4U16	ql w
RsOmAm	11171	2- - 6	220S	22- 2	220y	2UJS	ql w
RsRqAm	4- 71	4SE2- 0	4Sy464	4S- E02	4S6Sy1	SU0E	ql w
RsRqAm	4471	6JEE46-	01- J1EJ	604SE02	6y11- yJ	2Uy6	ql w
Rsrbon	1271	- JJJEy2	4112E- 0	41442S-	4S4J444	- U44	ql w
Rsrbon	1272	4y10E	4yy6S	4061y	4Jy1J	2U44	ql w
RGRorAne	- E71	2- S46- JE	20S- 16- 6	2yS2S- J1	26- 661- 4	11UE4	ql w
RGRorAne	- E72	21JJ46	22161S	222262	22SyS6	SUJ2	ql w
RGromAm	E272	22yy2	22011	22y4E	22JJ-	SU66	ql w
RobsR&	Ey72	2Jy2y	2JJSy	2J2- J	2J6Ey	1U2y	ql w
RoI I er	6- 72	6- 4y1	6- 1J0	62JS2	6- 16S	SUEE	ql w
t hwI rowAm	1E671	J016J	J6J66	J46E1	J622J	1UEy	ql w
t hwI rowAm	1E672	- 6SEE	- 41y4	- E2ES	- E166	2U6E	ql w
. rbAm	16471	6- EJ6	62121	61J00	62E2J	1U4J	ql w
. rbAm	16472	2EESE	24EJ6	2ES64	2ESE2	1UJ-	ql w
HsOoRAm	16S71	0EJ- 2	0- 046	02041	041S6	2U1-	ql w
HsOoRAm	16S72	- 4y22	- 42S4	- E4J0	- 4J01	1UJ4	ql w
9 oRmAm	16E71	y066- 6y	y06S21y	y0EySJS	y061JyS	SUS4	ql w
9 oRmAm	16E72	4114JSy	4160y- 4	4SJJS26	412- EyS	SUyy	ql w
DnOAm	11E71	0SSJ066	01S4EJE	01- E0E6	0SJ- S- 6	SUy-	ql w
DnOAm	11E72	y- 4- 42	yES2E1	y4SSJJ	y41E6S	SUJ6	ql w
Don	E472	1J2S146	1JES441	1J46202	1J- JyE-	SUJy	ql w
Don	E672	- - 44S- Sy	- - - 2Syy4	- 211J6yS	- 2yEyyy0	2U22	ql w
Don	E072	0y41Ey	0y- 21E	00y2Ey	0JJJ00	1US6	ql w
Krhl &on	J- 71	- E4	- SE	- 2E	- 2J	0U40	ql w
LesO	2S671	E- 14E6	E2224y	E1JS06	E2- y20	1UJ1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF2-	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	442J6J	441J61	4- S4- S	4- J- J6	1UEJ	ql w
LesO	2SJ71	2S60SSS	2S660y4	2S4S- 2E	2SEJS4S	SU0E	ql w
LA&GAum	671	2E0y22-	2E40J- y	2EJ414J	2E0S4S-	SU00	ql w
5 sgnewAum	2472	04E12S	0E4ES1	0662J2	0EE- S1	1U4S	ql w
5 sngsnewe	EE72	4- E2yy	4- 0y- y	4- - 2y2	4- EE1S	SUE4	ql w
5 oPbOenum	y471	E1y0-	E- SS2	E12S-	E2SEy	1U0-	ql w
5 oPbOenum	yE71	4410	4J26	4E26	4EyS	4U61	ql w
5 oPbOenum	y671	12014	1- 22-	1- 4E0	1- 1- 2	2UJy	ql w
5 oPbOenum	y071	2- 42	2J60	2y10	20Sy	11U06	ql w
5 oPbOenum	yJ71	0Ey4	6yS2	02y4	026-	4U0J	ql w
NeoOhmAum	1ES71	1E4yJJ	1EE11-	1EEJ1E	1EE- SE	SU2y	ql w
NeoOhmAum	1ES72	4E1yy	4E126	44661	44yyE	SU6E	ql w
NAqkeP	6S72	14y- E	1E1JE	1E2- 2	1E110	1US6	ql w
8 GowI Goruw	- 172	ES1J	E2Ey	E24-	E10-	2U61	ql w
8 o&swwAum	- y72	41210y	4SySJ4	4S1- y4	4S0EE-	1U-6	ql w
CGoOAum	1S- 71	01- 0126	01SySE0	0S- SJ02	0Sy2- E2	SU0J	ql w
CGoOAum	1S- 72	- 141JS6	- 2216- 6	- 1ES060	- 1014S-	1U-J	ql w
pqsnOAum	4E71	46- 4- 46	400J202	46- 6S44	46J2JJ0	1U06	ql w
pqsnOAum	4E72	14E- Ey	14E2y-	141yS6	1441J6	1U-0	ql w
peRenAum	J271	1- 0	1yy	162	166	1JUE2	ql w
peRenAum	0072	1E0	1- -	10-	1E4	1- US1	ql w
peRenAum	0J72	12S	11S	1SE	112	6UJ4	ql w
pARqon	2J71	1- SJS261	1- Sy606J	12y- 0- 01	1- S- J1- -	SU60	ql w
pARer	1S071	- yE1	- y60	- J26	- y1E	1UyJ	ql w
pARer	1Sy71	42Sy	- y42	- 060	- y0-	EU6S	ql w
poOAum	2- 72	E262y	E1y6S	E2411	E2- - -	SU6E	ql w
p&ona&Aum	J671	1yJEyJ	1yy200	1y406y	1y0E4J	1U2-	ql w
p&ona&Aum	JJ71	1J142SS	10J44E6	1JS1- 06	1JSSS11	SUJ-	ql w
puRur	- 471	2y62Ey	- SS4EJ	- S142S	2yy- 0y	SUy2	ql w
i erbAum	1Ey71	yy1- 06-	yJ4E406	y02yJ64	yJ2y0S1	SUyE	ql w
i erbAum	1Ey72	4S66E46	- yy2y- 2	4SSJJ26	4S2206J	SUy6	ql w
i GsRAum	2S- 71	1ESJ	10y2	14EJ	1EJ6	11U--	ql w
i GsRAum	2SE71	- E06	- Jy2	- 4E1	- 6- y	6U26	ql w
i A	11J71	1EJE1	16100	16600	162- E	2UE6	ql w
i A&snAum	4071	1- 0S10	1- yESJ	1- 04SE	1- 0y00	SUy0	ql w
MrsnAum	2- J71	6E126	66224	6- 22E	64JEJ	2U-4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 4407S0	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF2-	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:S2:2J	t s&sFAe Nsme :	S0Sc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	E172	442yE	4- Jy0	4420J	441E0	SUE1	ql w
Y&erbAum	10271	16y0S	10E62	10S2J	101J0	1UyS	ql w
Y&erbAum	10272	J440	J614	J2J6	J44y	1Uy4	ql w
Y&erbAum	10671	12214	1- J- -	12J4J	12y6E	6U2y	ql w
Y&erbAum	10672	166ES	162EE	16- - -	16412	1U20	ql w
Y&&Aum	Jy71	1- E1- - 0J	1- y42- 16	1- 0yE1- 2	1- 0ES20E	1UEy	ql w
Y&&Aum	Jy72	1- 2yJEJ	141- ESS	142- E2J	1- JJy62	- U0S	ql w
ZAnq	6672	622J-	62E6J	6140-	621SJ	SUy1	ql w
ZAqonAum	yS71	1- 210-	1- 2- 41	1- S4EJ	1- 16E0	SU0y	ql w
ZAqonAum	y171	2y- - 2	2yJ- -	2J6JS	2y2J1	1Uy0	ql w

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr Tuwb r :J	N
5 8r CTl wb D8 :t&:J	9 y SU2- &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :uwb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2072	41 41h	41ah1-	41 462	410ah	SMa	dDl
qCTb nCE	12171	- 4ah	- 6h2	- 6 4	- 612	- M0	dDl
qpl r Ccl	0a72	2- - S	2- S1	2201	2- S1	1M2	dDl
Bwpcmb	1- a71	- a- 1h-	- 614h6	- a6- 41	- a0S1S	1M10	dDl
Bwpcmb	1- 071	62200S	64- S- a	6- - - 00	6- - S61	1M8S	dDl
Br pE8mb	h71	- 02a	- 04a	- 0 1	- 0aS	SM06	dDl
Bdl b mTG	2Sh71	6 aSa62	02a	6h 21ha	0S- Sa4	2M16	dDl
Bdl b mTG	2Sh72	- 2h- a06	- 22S S1	- 2- 0a06	- 2aS6a1	1M10	dDl
Bpmb cCr	171	a - a	6- S2	61a2	6Sh6	- M11	dDl
5 wob cmb	1S 71	- 10	2	- S	- S4	4M14	dDl
5 wob cmb	1S671	4a06	4a26	42Sh	44- 0	4M4	dDl
5 wob cmb	11171	2411	2- 00	22h0	2- 62	2M4	dDl
5 w8lcmb	4- 71	4S2S 1	4S6S -	4S4110	4S4Sh4	SM4S	dDl
5 w8lcmb	4471	600S1- S	6h4- a- 2	602ahS6	6 1- 1 h	1M8h	dDl
5 wpenC	1271	- 0h 6a1	- hh2h0h	4SS2440	- h- 1- ah	2M1-	dDl
5 wpenC	1272	400 0	4h66S	4 - - S	4 ah2	1M1	dDl
5 G8hpCr	- a71	2- S 1a0S	26h- 4h02	2 04216-	262a2hS2	11M81	dDl
5 G8hpCr	- a72	216h- 2	222a0-	224h6	2214h1	1M6	dDl
5 Gpmb cmb	a272	22ha	22 42	22a4a	220 2	SM14	dDl
5 new8T	ah72	2ha- 1	2 a42	2h0aa	2h206	2M2S	dDl
5 nDDr p	6- 72	640S-	64 01	641a0	64a00	SM4	dDl
&El Dpnl cmb	1a671	4- 0a	Sh	aa- -	6SS2	2M22	dDl
&El Dpnl cmb	1a672	- 466	- 42h1	- 6S a	- aS1a	2M0S	dDl
Fpecmb	16471	6444h	661S0	64a41	6aS- -	1M4-	dDl
Fpecmb	16472	2aS- 4	2aS04	2aa2a	2a211	1M8	dDl
Hwon8Cmb	16S71	02440	0a hS	06220	04 aa	2M0h	dDl
Hwon8Cmb	16S72	- 4421	- 404a	- 464	- 46Sa	SM4	dDl
y n8b cmb	16a71	h 6001a	1SaS160a	1SSSS226	1S12- 2S6	- MS	dDl
y n8b cmb	16a72	422SaS4	422- 2-	4220Sh	422- 61-	SM8	dDl
tCocmb	11a71	0S0621-	0a00h0S	0- 616aS	0- - 611	- M4-	dDl
tCocmb	11a72	h64a 2	ha01-	ha44a6	ha 026	SM4a	dDl
tpnC	a472	1 01h 6	1h102 6	1 4Sh22	1 060- 1	2M8a	dDl
tpnC	a672	- - 6h446	- - 000406	- - 4a0h2	- - 002a0h	SM22	dDl
tpnC	a072	0h60h2	S- 660	0h61a2	0h 01	SM42	dDl
KpEDTnC	- 71	- - a	- - S	2h4	- 2S	0M84	dDl
Lr wo	2S671	a2a21a	a- 16aa	a2h4- S	a2 060	SM02	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 4407S	tCl Tpmb Cr T.u wb r :J	N
5 8r CTl wb D8 :t&:.J	9 y SU2- &	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S071	420- 44	44- aa	442- S	4- 00- 0	2M86	dDl
Lr wo	2S 71	2S- Shh0	2S 4- S0	2Sah01	2Sa - 41	1MS	dDl
LdTGmb	671	2a- 4224	26h0 -	262 12a	262SS00	- M-	dDl
9 wgCr l mb	2472	0aa0	0a40	04- 0-	0a14 -	SM	dDl
9 wCgwCr l r	aa72	446642	441144	442200	44- - a4	SM8a	dDl
9 n8Eeor Cmb	h471	aS 1h	a1 - h	a- 6S4	a2S 0	2M01	dDl
9 n8Eeor Cmb	ha71	4aSh	40h-	4a6	462-	- M24	dDl
9 n8Eeor Cmb	h671	1- ShS	1- 2hS	141hh	1- a26	4M0	dDl
9 n8Eeor Cmb	h071	- 1 4	2h- 4	2h- 4	- S10	4M0h	dDl
9 n8Eeor Cmb	h 71	0661	0hS2	02S2	0a	4M8h	dDl
u r noEb cmb	1aS71	1aSah0	1a0Sa6	1a- a4	1a- - a	2M1S	dDl
u r noEb cmb	1aS72	4a4 0	4a	4400a	4a- -	1M24	dDl
u cdkr 8	6S72	1a422	1a111	1a16a	1a2- -	1M8h	dDl
NGhl DGhpml	- 172	a106	a- 4-	a2- 4	a2a1	1M61	dDl
NnTwl l cmb	- h72	41- 1hh	4S- 4aS	411 4-	4Sh4h0	1M2h	dDl
. Ghocmb	1S- 71	0S64h- 2	04140ha	0Sa6- S6	010 60	2Ma	dDl
. Ghocmb	1S- 72	- 24001a	- 222 44	- 2Sh4a4	- 226601	SM8S	dDl
l dwCocmb	4a71	462a26a	4 141-	46S06 S	40S40 6	- M26	dDl
l dwCocmb	4a72	14a246	1460hh	1464a	14616	SM46	dDl
l r 8 Ccmb	271	1a1	121	211	161	2 M42	dDl
l r 8 Ccmb	0072	1- 0	1 0	1- -	1a2	1hM8-	dDl
l r 8 Ccmb	0 72	hS	1S	1S-	1SS	hM26	dDl
l 8dnC	2 71	120Sh6aS	12ha- 6a	1- 24SSS0	12h60002	2M8a	dDl
l 8vr p	1S071	- - 4	4Sa1	- h06	- ha-	2M0	dDl
l 8vr p	1Sh71	- 0Sh	- 10	41 4	- hS-	6M	dDl
l nocmb	2- 72	a44a-	a2 6-	a4- Sh	a- 0a	1M8-	dDl
l TpnCTcmb	671	1h- h00	1hh a	1h0a10	1h011	1M4S	dDl
l TpnCTcmb	71	104024h	1 - h- 62	1 - S1aS	1 Saa 0	2M1	dDl
l m8mp	- 471	2h a2h	- S2S 2	- S2662	- S1Sh1	SM04	dDl
Ar pecmb	1ah71	1SS266-	1S 42a62	1S2SS064	1S- a66aa	4M1a	dDl
Ar pecmb	1ah72	41SS40S	4S6- 6 1	4116- 40	4Sh- 4hh	SM06	dDl
AGw8mb	2S- 71	1a- -	1- a	16S	1aSS	M4a	dDl
AGw8mb	2Sa71	- 642	- a1	- 4	- 0h2	- M4a	dDl
AdC	11 71	16S a	16- 00	1a6- 4	16S- 2	2M-	dDl
AdTwCcmb	4071	1- 6- 12	1- 0a04	1- 4S4S	1- ah0a	1M12	dDl
RpwCcmb	2- 71	64S0S	6a444	6a4 6	6aSSS	1M24	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 4407S	tCl Tpmb Cr T:u wb r :J	N
5 8r CTI wb D8 :t&:J	9 y SU2- &	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16JSaJ24	&wTwUd8 :u wb r :J	S01q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a172	4a2aa	4412	4- hh4	444ah	1M46	dDI
YTTr pecmb	10271	1024a	1 2h6	104ha	1060h	- M11	dDI
YTTr pecmb	10272	16h	2h2	014	- h2	- M41	dDI
YTTr pecmb	10671	12 2-	126S6	1- 416	12h4	- M4-	dDI
YTTr pecmb	10672	16hSS	16S01	1664h	16a4S	2M40	dDI
YTTpcmb	h71	1- 66 S1-	14046- 46	1- 1026	14Sh 6ha	4M8a	dDI
YTTpcmb	h72	14- - - 40	1- a4446	14Sa642	1- h0 12	2M6	dDI
ZdCd	6672	61 - 1	6- 424	61 h	62- 4	1M44	dDI
ZqpdnCcmb	hS71	1- 10h6	1- 64- 2	1- 44- S	1- 421h	1M0-	dDI
ZqpdnCcmb	h171	- 1S6S	- S2SS	2h44S	- S2- -	2M6	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
ARminium	23O2	36J49	3JO9O	3J139	333O6	O.96	cpw
Antimony	12101	6OJ	313	JOJ	311	14.OJ	cpw
Arwenic	37O2	43O	- 9-	422	42J	9.OJ	cpw
Bsrium	1- 701	64- 74	6- 727	661O7	64661	2.O4	cpw
Bsrium	1- 301	11O3JJ	116921	116217	114641	2.9-	cpw
BeryRium	901	632	311	679	6J1	4.OO	cpw
Biwmuth	2O901	631- 436	6646262	63OO244	66J6661	O.7-	cpw
Biwmuth	2O9O2	- 174JJ6	- 1- 3- J-	294616-	- O39433	- .36	cpw
Bromine	J101	4636	464-	4- 6J	4762	- .31	cpw
Csdmium	1OJ01	37	1OJ	37	J6	22.- 7	cpw
Csdmium	1O601	- J36	- 371	4O13	- JJ1	- .44	cpw
Csdmium	11101	39J	634	366	346	J.79	cpw
CsRium	4- 01	32O9-	3- JO9	3- 14O	3- O14	1.1J	cpw
CsRium	4401	124O3O1	12J1273	1234O99	1267- 72	1.31	cpw
Csrbon	1201	269O397	2693193	2373- 13	23171O-	1.- 7	cpw
Csrbon	12O2	- 1J6J	- 2J29	- - O46	- 27J1	1.92	cpw
ChRorine	- 701	1O- 93J27	1O431O9-	1O- J4O34	1O413664	O.47	cpw
ChRorine	- 7O2	6966J	69663	6J3O4	69- 46	O.JO	cpw
Chromium	72O2	71OJ	724J	7- 61	72- 9	2.42	cpw
CobsRR	79O2	7- 21	7- 91	71J1	729J	2.O2	cpw
Copper	6- O2	12- 32	12749	12676	12726	1.14	cpw
Dywprowium	1760l	17136	17679	17- 13	17- J4	1.62	cpw
Dywprowium	176O2	6J12	6- 77	63J7	6671	- .J6	cpw
Erbium	1640l	114- O	11793	117JO	117- 6	O.JO	cpw
Erbium	164O2	4331	4661	476J	4666	2.1J	cpw
GsdoRRium	16O01	1- 999	1- 6- 2	1- 316	1- 3J2	1.4O	cpw
GsdoRRium	16O02	647J	6632	6772	6761	1.6-	cpw
HoRRium	1670l	9J74O41	979O33-	972J4O6	967334O	1.39	cpw
HoRRium	167O2	41O29- 2	41JJO49	- J276- 3	4O- JJ3-	4.69	cpw
Indium	1170l	6973164	3O77611	3OJ919-	3O- - 9J9	O.9J	cpw
Indium	117O2	9- 1412	942971	JJ262-	91J997	- .4J	cpw
Iron	74O2	- 1319O	- 241- 1	- 226- 7	- 21- 19	1.14	cpw
Iron	76O2	61764J9	6267772	627- 192	6227O3J	O.96	cpw
Iron	73O2	1471JJ	14JJ42	143O96	143O42	1.24	cpw
Krypton	J- 01	2J3	- O4	233	29O	4.7J	cpw
Lesd	2O601	94417	96- - 4	936- 2	96123	1.6J	cpw

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Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 4430O3LX7	Inwtrumnet Nsme :	8 J
CRent Ssmpre ID :	MHOF2- L	DiRution Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFiRe Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	2O301	3J467	JO236	JOJ71	39J64	1.76	cpw
Lesd	2OJ01	- 3- - 96	- 37374	- J1444	- 36J67	1.1O	cpw
Lithium	601	2461J99	24- 6J4J	272- 24J	243- 99J	1.JO	cpw
Msgnewium	24O2	1- 3- O2	1- 673J	142227	1- J3O2	2.22	cpw
Msngsnewe	77O2	J1O67	J- 466	J294-	J2491	1.7-	cpw
MoRybdenum	9401	96J3	9- 2J	977-	972-	1.9O	cpw
MoRybdenum	9701	913	3J-	J92	J64	J.2O	cpw
MoRybdenum	9601	26O9	2279	27- 4	2463	3.43	cpw
MoRybdenum	9301	4OJ	763	77O	7OJ	13.12	cpw
MoRybdenum	9J01	1427	1437	12OJ	1- 3O	1O.- 7	cpw
Neodymium	17O01	26JO1	233- 6	23- O1	23239	1.32	cpw
Neodymium	17O02	J2O9	J43-	J4J9	J- 9O	1.J3	cpw
NickeP	6O02	2JO3	- O24	2314	2J4J	7.79	cpw
8howphoruw	- 102	1O63	992	97O	1OO-	7.9O	cpw
8otswwium	- 902	J- O9J	J- 291	J- 6O1	J- - - O	O.- O	cpw
Rhodium	1O- 01	69222- J	3O121J2	637174-	6J97- 21	1.92	cpw
Rhodium	1O- 02	- 146- 92	- 1471J4	297- - - 6	- OJ16- 3	- .61	cpw
Scsndium	4701	4463717	4716979	4434- 22	44J6267	O.6O	cpw
Scsndium	4702	142- - J	142J67	1- 4666	1- 9976	- .2J	cpw
SeRenium	J201	7	04-	017	01J	01- 6.2J	cpw
SeRenium	3302	4O	- 3	- 3	- J	7.O9	cpw
SeRenium	3JO2	23	- 4	44	- 7	24.41	cpw
SiRcon	2J01	24- 7413	24324O7	2747- 2-	24J4- J2	2.27	cpw
SiRver	1O301	J7J	J42	J27	J42	1.9J	cpw
SiRver	1O901	JJ-	JOJ	JOJ	J- -	7.2O	cpw
Sodium	2- 02	2772-	27- 9J	27- J9	274- 3	O.29	cpw
Strontium	J601	- 43O2	- 624J	- 6OO6	- 7672	2.- -	cpw
Strontium	JJ01	- OO- 33	- O919-	- O4JO6	- O4392	1.47	cpw
SuRur	- 401	26- 169	2792- O	2733JJ	26OO62	1.O3	cpw
Terbium	17901	9911714	93676- 9	9JJ66OO	9J747J7	O.39	cpw
Terbium	17902	4O46911	4O2- 626	- 341997	- 9- 3711	4.- 1	cpw
ThsRium	2O- 01	463	7J-	437	7OJ	12.JO	cpw
ThsRium	2O701	9J-	1O92	1OOJ	1O2J	7.72	cpw
Tin	11J01	- 3O9	- 6O9	41J4	- J- 4	J.O1	cpw
Titsnium	4301	241O4	24322	247- O	24472	1.29	cpw
Ursnium	2- J01	116O6	12O3-	1214J	11942	2.46	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 perstor :	aswl sP
Lsb Ssmpre ID :	5 - 443O03LX7	Inwtrumnet Nsme :	8 J
CIrent Ssmpre ID :	MHOF2- L	DirPtion Fsctor :	7
Dste & Time Acquired :	2O2- 0O3012 16:OJ:2-	DstsFire Nsme :	O32AREF.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	7102	J- 6-	J- 9-	J- O6	J- 74	O.7-	cpw
Ytterbium	13201	- 413	- 213	- 271	- 297	- .27	cpw
Ytterbium	13202	1411	142J	1611	14J-	3.4J	cpw
Ytterbium	13601	- 179	- - 27	- 1J4	- 22-	2.39	cpw
Ytterbium	13602	11J76	12276	11- 23	11J1-	- .94	cpw
Yttrium	J901	12JJ3O79	12JJ329O	12336OO9	12J7O12O	O.7O	cpw
Yttrium	J902	127- 132	123974J	119412O	12422JO	- .72	cpw
Zinc	6602	12OO7	113OJ	11J62	11J7J	1.27	cpw
Zirconium	9O01	24O6-	24131	2434J	24- 23	1.71	cpw
Zirconium	9101	71O1	774-	766O	74- 7	7.42	cpw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusbR:J	8 N
5 PR CTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCmb	2072	hS004N	hS6 2	hSS1hN	hS4 66	SMM-	dDw
qCTb nCE	12171	112461	111N4S	1S 0 S	111- 64	1M2h	dDw
qpwr Cd	0h72	- 610	- 024	- N14	- 01N	2M0h	dDw
Bspmb	1- h71	1SNh2	S02 2	Sh NN	SNS44	SM2N	dDw
Bspmb	1- 071	1044622	16 h002	10S22Sh	10142SS	1MMh	dDw
Br pEPRmb	71	1 hN2	1 26N	1N0N-	1 211	2MS	dDw
Bcwb mTG	2S 71	6 2666	0124N01	0Sh6N- 6	0S- 612h	1M4-	dDw
Bcwb mTG	2S 72	- 26 h60	- 2- NS-	- 2- - - 0	- 240hN	SMM	dDw
Bpmb dCr	N171	614-	624-	6220	62S4	SMM6	dDw
5 sob mb	1SN71	1- 2	1221	120	1206	4M2h	dDw
5 sob mb	1S671	h- 4-	h66N	hN1N	h61S	4M-	dDw
5 sob mb	11171	164- h	164 -	16- Sh	16411	SMM	dDw
5 sPdmb	4- 71	4h4- 4h	4h02N6	44NN66	4h- 4	SM4	dDw
5 sPdmb	4471	06N40S6	0NS6N1N	04 144N	066S 1	2MSN	dDw
5 spenC	1271	4- - N14	4h01N6-	4h 1h4S	4hSSh10	- M-	dDw
5 spenC	1272	h6 61	hh1 6	hh246	hhNS1	1MMS	dDw
5 GPmpdCr	- h71	1 61SSh-	24SN6242	26- 6 N2	2- - 64426	14M00	dDw
5 GPmpdCr	- h72	2S61h-	21h- 06	22S4S1	21- 00	- MN	dDw
5 Gpmb mb	h272	h1hN	6S6-	4- - h	h1Nh	SM1	dDw
5 nesPT	h 72	- 4hN00	- 4h4S-	- 41SS	- 44S 6	SM0N	dDw
5 nDDr p	6- 72	1 - 1 S	1 - 2S4	1 - - - 0	1 - 244	SMS4	dDw
&EwDpnwmb	1h671	- 20h	64S6	42- 1	46- N	1M0S	dDw
&EwDpnwmb	1h672	4SS16	- N 0S	- 221	- 4S2	1M	dDw
Fpemb	16471	014 -	0- 2- h	0S0 0	01N42	1M0h	dDw
Fpemb	16472	2N1NS	2N- N0	2N4h4	2N- 4S	SMMS	dDw
HsonPCmb	16S71	N2- h4	N4N1	N1 4	N- Sh6	1MMh	dDw
HsonPCmb	16S72	4S40h	- 64	- 0 2S	- - 4N	- M1	dDw
y nPb mb	16h71	06N0S-	N6 NN6	00h26	NS461	SMMN	dDw
y nPb mb	16h72	41 - 4 N	410 4 0	416h 4	410 66-	SM-	dDw
tComb	11h71	0SN0S00	026 22	01Nh1N4	01NS02N	1M20	dDw
tComb	11h72	hh2 6	h- 44-	- NSh	4N - 2	1MSS	dDw
tpnC	h472	2124SN-	21414N-	21- h 06	21- - N40	SM42	dDw
tpnC	h672	- N0S24	- N1062h4	- N4222- 0	- N4- - 66-	SM0	dDw
tpnC	h072	2S14S	1 S- 1	14NS0	10 -	SM1	dDw
KpEDTnC	N- 71	- 46	- - 4	- N	- h6	NMS	dDw
Lr so	2S671	6S426	614 S	h h002	6ShS1S	1MM	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusbR:J	8 N
5 PR CTI sb DPP:t&:J	9 y SU2- I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:usb r:J	S0- q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S071	hS- - 2N	hS- 0 0	4 1446	4 h24	1M4S	dDw
Lr so	2SN71	2- 44- - 4	2- N- 60N	2- 61646	2- 6- 21	SMM-	dDw
LdTGmb	671	2h20S14	2hShNhh	2h- hh6	2h22N1-	SM01	dDw
9 sgOr wcmb	2472	N6S20-	Nh2216	Nh4S41	Nhhh1S	SM4	dDw
9 sOgsOr wr	hh72	h Sh2	h - 04	hN6N0	h S- N6	SMMN	dDw
9 nPEeor Omb	471	hh 0	h S1S	hh6S4	h6N0S	- M2N	dDw
9 nPEeor Omb	h71	4Nh1	4626	4Nh	400	2M00	dDw
9 nPEeor Omb	671	1- N04	14h2h	144hS	142N-	2M4	dDw
9 nPEeor Omb	071	- SSS	20N4	2 hS	2 11	- MS	dDw
9 nPEeor Omb	N71	01S2	066	0NN6	0hh2	hM6	dDw
u r noEb cmb	1hS71	16 40N	10- 2h1	10SN- N	1011N	1M12	dDw
u r noEb cmb	1hS72	h10S-	h14Sh	h1- 41	h14N-	SM0	dDw
u cdkr P	6S72	1S62- S	1Shh	1Shh- N	1Sh0N	SM6	dDw
8 GhwDGhpmw	- 172	hh- h	hN- h	h64-	h601	2M6N	dDw
8 nTswwcmb	- 72	46- N -	40S- 6N	4h hS	464h S	1MMN	dDw
. Ghocmb	1S- 71	0114S02	0204102	0S64 1h	01h1Sh-	1MM-	dDw
. Ghocmb	1S- 72	- 2N 6h2	- 1N00h1	- 112646	- 1 66N-	2M0N	dDw
I dsCocmb	4h71	4h 1 N	46SS4 4	406662-	46h- S- h	2M12	dDw
I dsCocmb	4h72	14h h1	14- 66	14- 40h	144464	SM1	dDw
I r PPCcmb	N271	2226	22NS	21 2	22- -	1MMN	dDw
I r PPCcmb	0072	2- -	2h0	220	2-	6MM	dDw
I r PPCcmb	0N72	- 21	- 6	- 12	- - 4	M10	dDw
I dRdnC	2N71	1hN- 02 N	1h- 106h6	14N641S1	1h- - 6Nh	- M10	dDw
I dPr p	1S071	60N- 4	60hN-	6h4 N	66 02	1M12	dDw
I dPr p	1S 71	64661	64242	642- 4	64- 0	SMMN	dDw
I nocmb	2- 72	6 - 4	0102	66 4h	6 - 41	- M4h	dDw
I TpmCTcmb	N671	2220h1	210620	22hS11	2210 6	1M01	dDw
I TpmCTcmb	NN71	2S2N02	2S44- 2S	2S1 - hS	2S- SNSS	SM02	dDw
I mPPmp	- 471	- S-	- S2 N6	- S1h6h	- S2NhS	SM4S	dDw
Ar pecmb	1h 71	1S110SN2	1S2N6621	1S1hS41S	1S1N40S4	SMMN	dDw
Ar pecmb	1h 72	41- S- N	4S10N 6	4S02- - 1	4S0- h42	1MMN	dDw
AGsPPmb	2S- 71	h - S-	h 11S	h0h2N	hN640	1M06	dDw
AGsPPmb	2Sh71	14266h	144S62	14SS4-	1422h0	1M4-	dDw
AdC	11N71	2SN2h	2Sh- 2	212SS	2SNh2	1M01	dDw
AdSCcmb	4071	1h2SSS	16S 0	1hS- 41	1h4446	- M01	dDw
RpsCcmb	2- N71	020- h	020- 4	02 4-	02NS4	SM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 4407S	tOwTpmb Or TusB r :J	8 N
5 PrCTI sb DPP:t&:J	9 y SU2- I	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- 7S0712:16J11J22	&sTsUdP:u sb r :J	S0- q . FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h172	10 2N4	10 242	10N4N2	10 SS-	SM2h	dDw
YTTr peomb	10271	1 NS0	1 1h6	1 S14	1 - 26	2M1	dDw
YTTr peomb	10272	hh	2S	4N0	41N	1M6	dDw
YTTr peomb	10671	1hS 2	140 2	14hSN	140 N	1M0	dDw
YTTr peomb	10672	16N-	16016	16Nhh	16NS-	SM4h	dDw
YTTpomb	N 71	1- 4 h6 0	1- 46h4-	141SN612	1- NhS2N4	2M2	dDw
YTTpomb	N 72	142- h22	14116 6	1- 046-	14S- 2N6	1MM2	dDw
ZdCd	6672	126S41	120hNh	12NNN-	120hS-	1M12	dDw
ZqpdnComb	S71	14 01	140N 0	14h h-	140Nh6	1M20	dDw
ZqpdnComb	171	- - 6SS	- 4- -	- - - 04	- - 0N	1MMN	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4y8y88	hSy411	4y2SS4	hSS1- 4	1U0h	ql s
c n&AmonE	12171	24- 4	2- 0h	24y2	24- 4	2U4S	ql s
c rsenAq	0h72	1880	1yyy	18y6	1y28	- U2-	ql s
BarAum	1- h71	- 08846	- 8- 244	- 81h10	- 812S2	SUh8	ql s
BarAum	1- 071	604h- -	606211	66S146	60S2y0	1U 2	ql s
BerEIlAum	y71	4yS6	486h	4y08	4y16	1U16	ql s
BAsmu&G	2Sy71	6y6h1- 2	6y6Shy8	01y0264	0S4Syy8	1Uy2	ql s
BAsmu&G	2Sy72	- 2y- 8h2	2hS8688	- 12- 841	2y0h46S	1- U88	ql s
BromAne	8171	6y20	64h2	6h- h	66- 8	- U82	ql s
RaOmAum	1S871	2- -	2SS	242	22h	yU8S	ql s
RaOmAum	1S671	44hy	4h18	4606	4hh1	2U46	ql s
RaOmAum	11171	1824	1yyy	1808	1ySS	4U02	ql s
RalqAum	4- 71	226280	22y241	228611	228S46	SU68	ql s
RalqAum	4471	- 818S8-	- 8hy121	- 884S68	- 8h- 0h0	SU86	ql s
Rarbon	1271	4- 148- 6	44hyS- -	464S- 0S	440141-	- U6h	ql s
Rarbon	1272	hh2h4	h4- 18	h61S8	hh220	1U62	ql s
RGlorAne	- h71	221y4180	2hh1h0S6	20y8- 8y6	2h2- 126-	11Uh1	ql s
RGlorAne	- h72	21Sh40	210- 01	221- 04	2164- 1	2Uh-	ql s
RGromAum	h272	20000	28442	26408	20h66	- U62	ql s
Robal&	hy72	- 2h- 4	- 2y2h	- 2Sy6	- 2h18	1U20	ql s
RoI I er	6- 72	0h- 6y	048S6	041Sy	04061	SU84	ql s
t EsI rosAum	1h671	1S6440	1S0y20	1SyS8h	1S082S	1U2-	ql s
t EsI rosAum	1h672	44Sh2	440Sh	4421-	44- 2-	SU00	ql s
. rbAum	16471	0y228	811y8	088S8	0y04h	1U6S	ql s
. rbAum	16472	- 122-	- 2S2h	- 1h08	- 16Sy	1U20	ql s
HaOolAnAum	16S71	y2602	y46h-	y166h	y2yy0	1U6-	ql s
HaOolAnAum	16S72	446h8	4h0y2	4- 4- 0	4462y	2U64	ql s
9 olmAum	16h71	1SS8- hS-	1SS2SS80	yyS66S4	1SSS- - y8	SUyS	ql s
9 olmAum	16h72	42S61h2	- 2SS28S	4S- 6048	- 814- y-	14U12	ql s
DnOAum	11h71	0102606	0106- y2	0S888h0	014hy0h	SU6y	ql s
DnOAum	11h72	y6- - 0h	016h- 6	y241S4	868SSh	1hU28	ql s
Don	h472	2S0h- 02	2S44621	2Sh206y	2Sh0h80	SU00	ql s
Don	h672	- 04660- 8	- 0y6268S	- 6- h1- 84	- 026S268	2U21	ql s
Don	h072	880106	8868yS	8668hS	88S- S6	1U 2	ql s
KrEI &on	8- 71	- - y	- 60	- 6S	- hh	4U2S	ql s
LeaO	2S671	4yy2- 6	h1216h	4y828-	hS- 228	1Uh4	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	410y- S	418888	412h20	416448	SU82	ql s
LeaO	2S871	1yh2yhh	1y88282	1yh1hy0	1y64208	1US6	ql s
LA&GAum	671	2401y00	2h8y14h	2h2h- 24	2h28816	2U2	ql s
5 agnesAum	2472	64- 864	66S22S	64SSSh	648S- S	1U66	ql s
5 anganese	hh72	4488- y	44y- 20	44SShS	446S02	1U10	ql s
5 olEbOenum	y471	- - 8hy	- - 16h	- - 0- -	- - h86	1U1S	ql s
5 olEbOenum	yh71	- 2hy	- 4Sy	- 4- 4	- - 60	2U81	ql s
5 olEbOenum	y671	y1S-	y462	yS0S	y212	2U16	ql s
5 olEbOenum	y071	2S84	22SS	2260	2184	4U2h	ql s
5 olEbOenum	y871	h- 68	h8h1	hhh1	hhyS	4U10	ql s
NeoOEmAum	1hS71	1y- 811	1y- 602	1yhhSS	1y4- 28	SUh2	ql s
NeoOEmAum	1hS72	hy6h2	h00h0	h82- 2	h8h40	1U68	ql s
NAqkel	6S72	1h2S8	1hy4y	1hhSy	1hhhh	2U4S	ql s
PGosI Gorus	- 172	- 8S1	- 6y2	- - 10	- 6S-	0US4	ql s
Po&assAum	- y72	- 14006	- 1S814	- S- 288	- Sy626	1U88	ql s
CGoOAum	1S- 71	018- 681	0- SSy41	018262S	0222414	SUy4	ql s
CGoOAum	1S- 72	- - 10S0y	24h- 4h6	- Sy- 026	2yh40h-	1hU10	ql s
pqanOAum	4h71	4648- 8S	40ySh1S	4684016	40S086y	1Uh0	ql s
pqanOAum	4h72	146hy-	11S10S	1- 88y-	1- 188h	14Uhh	ql s
pelenAum	8271	1yS	140	14y	162	14Uy2	ql s
pelenAum	0072	160	2S0	1y-	18y	1SU08	ql s
pelenAum	0872	1- 8	16S	126	141	12U2S	ql s
pAAqon	2871	121002- 6	12448846	122h8h22	122y4868	1U1-	ql s
pAver	1S071	4006	hSh1	46hy	482y	4U10	ql s
pAver	1Sy71	464-	4868	484-	4084	2Uh8	ql s
poOAum	2- 72	h220S	h2h12	h1h2h	h21S2	SUyy	ql s
p&ona&Aum	8671	2S0S12	21S80S	21226h	21SS4y	1U-S	ql s
p&ona&Aum	8871	1yS1226	1y04Shy	1yhS882	1y42Sh6	1Uy2	ql s
pulfur	- 471	20- 2y2	20012y	206yS2	20h004	SU08	ql s
i erbAum	1hy71	1S1y4y2h	1S22h6y6	1SS22- h8	1S14066S	1US8	ql s
i erbAum	1hy72	418220y	- 11426-	- y- 86Sh	- 04hS4y	14Uyh	ql s
i GallAum	2S- 71	21SS	24- 4	1y10	21hS	12U18	ql s
i GallAum	2Sh71	h28h	h41S	hS26	h24S	- U0-	ql s
i An	11871	21806	2226S	22h- 6	22224	1U4y	ql s
i A&anAum	4071	12y1h-	128018	128666	128846	SU21	ql s
MranAum	2- 871	8SSh-	82- hy	8S8yy	811S4	1U44	ql s

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Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF24	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:14:2S	t a&aFAe Name :	S04c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	h172	44208	4- y- 4	424S-	4- h- 8	2U2y	ql s
Y&erbAum	10271	21044	21hh1	212S1	214yy	1U28	ql s
Y&erbAum	10272	yy- 2	1Shy-	1S121	1S21h	- U4	ql s
Y&erbAum	10671	1h406	140hS	1h468	1h2- 1	2U04	ql s
Y&erbAum	10672	106h6	1h- hy	102- y	160h2	0U1	ql s
Y&&Aum	8y71	1- yS8y62	1- 8221Sh	1- 881042	1- 80Sy- 6	SU2	ql s
Y&&Aum	8y72	14y8- y2	1118- h0	1- 10Syh	1- 11281	14UhS	ql s
ZAnq	6672	h26y8	h4y6S	h- 2yS	h- 64y	2U1y	ql s
ZAqonAum	yS71	86yy0	862h8	8hy4S	86- y8	SU6-	ql s
ZAqonAum	y171	18y8S	1y6y8	186- 8	1y1Sh	2U8-	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUND

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
c lumAnAum	2072	4hhh66	4h- C01	CSSh40	4h8161	SN8S	ql s
c n&AmonE	12171	CS4-	4hS1	CC6S	C168	6N01	ql s
c rsenAq	0C72	181S	1000	10S8	106C	2N1C	ql s
BarAum	1- C71	- C0C82	- 6426-	- 6- 6hS	- 6184C	1N82	ql s
BarAum	1- 071	6- 40S8	6- 48h6	6- 8C84	6- 6S6-	SN14	ql s
BerEIAum	h71	1h81	2S16	1h42	1h8S	1N86	ql s
BAsmu&G	2Sh71	C- 124S1	660618C	6840- C0	6208648	1- N4S	ql s
BAsmu&G	2Sh72	- - S0S08	- 20h- 24	- 24- S16	- 20640-	SN18	ql s
BromAne	8171	06- 6	82S-	8- 08	8S02	4N81	ql s
5 aOmAum	1S871	20C	2C4	- 0C	- S1	21N4-	ql s
5 aOmAum	1S671	- C42	42S1	- h60	- hS-	8N0C	ql s
5 aOmAum	11171	- Ch6	- 8Ch	- Ch-	- 68-	4N16	ql s
5 alqAum	4- 71	1606- 4	16h4S0	16hShC	168012	SN06	ql s
5 alqAum	4471	28- 2CC8	28hh1- C	2882048	2801481	1N21	ql s
5 arbon	1271	C8262CS	Ch0C18h	611- C2S	Ch016C-	2N41	ql s
5 arbon	1272	0- S04	02h2-	0- - SS	0- Shh	SN26	ql s
5 GlorAne	- C71	22- 6068C	262- 1h26	282C2121	2C610244	11N80	ql s
5 GlorAne	- C72	2S8601	21- 416	210- 48	21- 14C	2N84	ql s
5 GromAum	C272	4- 442	42h14	4- 102	4- 106	SN01	ql s
5 obal&	Ch72	2- 44-	2- 48h	2- 4h6	2- 406	SN12	ql s
5 ol I er	6- 72	8h41h	80411	8842-	88418	1N14	ql s
t EsI rosAum	1C671	C- 44h	C2- 28	C- SC6	C2h4C	1N80	ql s
t EsI rosAum	1C672	21284	21Ch1	2S0C-	212Sh	2N8S	ql s
FrbAum	16471	4S262	4SC01	41482	4S002	1N06	ql s
FrbAum	16472	1Ch0-	1C82-	16ShS	1Ch62	SN84	ql s
HaColAnAum	16S71	4Ch8S	461- h	40Sh2	464S4	1N1S	ql s
HaColAnAum	16S72	214S0	211- 0	211SS	2121C	SN0h	ql s
y olmAum	16C71	04C2- 41	h2hh4- -	h60- hS4	88S8CCh	1- N0S	ql s
y olmAum	16C72	42- C0S6	416S048	42466h0	4214- 84	1N11	ql s
DnOAum	11C71	CCCh01	68682hS	0S401S0	64h10hS	12N01	ql s
DnOAum	11C72	h- 8628	h62- - C	h4- hS8	h482hS	1N11	ql s
Don	C472	10- 8h24	102hS4h	10Sh4- 6	102C8S-	SN80	ql s
Don	C672	- Sh48SC0	- SC84C28	- S1h- S08	- SC0C221	1N2-	ql s
Don	C072	0216S2	026081	021421	02- 268	SN42	ql s
KrEI &on	8- 71	- hC	- 1C	- 1h	- 4-	1- N10	ql s
LeaO	2S671	h4h404	hC22- 2	hCS84-	hCS84h	SN1C	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAen&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
LeaO	2S071	0hC- C-	0h- 411	0h4121	0h42hC	SM12	ql s
LeaO	2S871	- 86h4- -	- h- 82SC	- 80SCCS	- 8h20- S	1N31	ql s
LA&GAum	671	2Sh- 62h	2421- - 4	2C1hh61	2- 44h0C	hM02	ql s
9 agnesAum	2472	- 6hhh4	- 6- 88S	- 680h0	- 60CC0	SM38	ql s
9 anganese	CC72	C0h8CS	C81648	C0h02C	C8S4S8	SM1h	ql s
9 olEbOenum	h471	hh80	1S621	h80h	1S162	- M1C	ql s
9 olEbOenum	hC71	40C1	C- h-	4068	4h0S	0M6	ql s
9 olEbOenum	h671	628C	68C2	68C2	666-	4M1	ql s
9 olEbOenum	h071	- - 10	- 2Sh	- - 26	- 284	1M8	ql s
9 olEbOenum	h871	0011	0000	8S1h	08- 6	2N30	ql s
NeoOEmAum	1CS71	h2h28	hSh2S	h- - 2-	h2- hS	1Mh	ql s
NeoOEmAum	1CS72	206hh	2080-	20- 88	206C-	SM3h	ql s
NAqkel	6S72	12SS2	110- 8	11- S1	1168S	- N3-	ql s
PGosI Gorus	- 172	C1Sh	CSS1	4h- 4	CS1C	1M06	ql s
Po&assAum	- h72	- 1444C	- 141SC	- 14h22	- 144h1	SM1-	ql s
. GoOAum	1S- 71	C4C- 1Sh	68S1- 16	0S448S4	64- - S06	1- M-	ql s
. GoOAum	1S- 72	- 284- 4h	- 216h81	- 241C02	- 2406- 4	1N3C	ql s
pqanOAum	4C71	- C2h044	420C04C	4C0hh8h	41284h-	1- N3h	ql s
pqanOAum	4C72	14S21C	142102	14208C	141024	SM1C	ql s
pelenAum	8271	11h	122	1S8	116	6M01	ql s
pelenAum	0072	110	8S	1- -	11S	24M31	ql s
pelenAum	0872	82	0S	8h	8S	11M16	ql s
pAAqon	2871	8h14868	8h18CC-	8hh2868	8h42Sh6	SM4h	ql s
pAver	1S071	1Ch- C	16- C2	1C04-	16S1S	1M14	ql s
pAver	1Sh71	146h2	1C12C	1C0- 4	1C184	- M4C	ql s
poOAum	2- 72	48140	460Sh	48024	4086S	2M10	ql s
p&ona&um	8671	210- S1	210hCS	21022h	2104h-	SM18	ql s
p&ona&um	8871	2SC682h	1h88668	1h66C24	2SS4SS0	2MC	ql s
pulfur	- 471	2084SC	2814- 0	2814S2	28S41C	SM02	ql s
i erbAum	1Ch71	08488- 8	h610S8S	h0- 22C0	hS66SC8	11M04	ql s
i erbAum	1Ch72	4S82222	41C208h	4S- h- 04	4Sh1462	1M4S	ql s
i GallAum	2S- 71	1642	1060	18SS	10- 6	4M31	ql s
i GallAum	2SC71	- 826	- Ch2	4126	- 848	6M1C	ql s
i A	11871	2h4S0	2hC04	2hS4S	2h- 4S	SM1-	ql s
i A&anAum	4071	1- 1S02	1- SCh-	12h1h8	1- S288	SM7C	ql s
RranAum	2- 871	C- 4SC	C- - 88	C2h4C	C- 246	SM4h	ql s

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440711	Dns&umne&Name :	P8
5 lAn&pamI le D :	9 y SU2C	t Au&on Uaq&or :	1
t a&e T i Ane c qduAeO :	2S2- 7S0712 16:10:26	t a&aUAe Name :	S0Cc . FUM0

Parame&er	9 ass	5 Pp 1	5 Pp 2	5 Pp -	5 Pp 9 ean	5 Pp . pt	RnA&s
VanaOAum	C172	CSC02	4h816	C11S4	CS4h8	1M28	ql s
Y&erbAum	10271	12- h8	12- O6	122O6	12- - 0	SM0h	ql s
Y&erbAum	10272	C024	O6S1	ChC0	C061	- M14	ql s
Y&erbAum	10671	hC2h	8hS-	h10S	h2S1	- M41	ql s
Y&erbAum	10672	146h2	14C0C	14881	14016	1M3C	ql s
Y&&Aum	8h71	1S4C04C0	12h6C0Sh	1- 1h62- S	122S646C	12M44	ql s
Y&&Aum	8h72	1- S2- 66	1- 6hCSC	1- S- 4S2	1- 2CSh1	2M1S	ql s
ZAnq	6672	h4C1-	h4h86	h4h4h	h4816	SM28	ql s
ZAqonAum	hS71	1hhh8	2S04h	1h4- h	2SS62	- M28	ql s
ZAqonAum	h171	484-	4426	4406	4C81	4M10	ql s

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP u sb r:	S06q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	41J26h	414S16	4S6JSN	411h- 1	1M1J	dDw
qCTb nCE	12171	- SSS	- 1Sh	2NJh	2hNh	4M2S	dDw
qpwr Ccd	0J72	14J6	1J1S	1410	1461	- M2S	dDw
Bspcmb	1- J71	26N2hJ	26NS1h	266NNh	2600- J	SM2N	dDw
Bspcmb	1- 071	464064	460J- 6	402N02	46N- hS	SMMN	dDw
Br pEPmb	h71	1J1S	16S4	1626	1JNS	- M1S	dDw
Bcwb mTG	2Sh71	6N- h- 4-	6hN6221	6N4S400	6NNN6NS	1M4-	dDw
Bcwb mTG	2Sh72	- 1JS0SN	- 2JhhNN	- 204N- S	- 22NJSN	2M1S	dDw
Bpmb cCr	N171	021S	0S44	0444	02- -	2M0N	dDw
5 sob cmb	1SN71	2SN	242	- 10	2J6	21M01	dDw
5 sob cmb	1S671	- N60	4S42	42- 4	4S4N	4M-	dDw
5 sob cmb	11171	- JJ4	- 1NJ	- - 0-	- - 01	JM46	dDw
5 sPlcmb	4- 71	1SJS6S	1S04- 2	1S4JS1	1SJ664	1M40	dDw
5 sPlcmb	4471	1NJ2S6N	1N6h2S-	1NS1S04	1N4S0N2	1M1-	dDw
5 spenC	1271	4S21S1S	4SN21- h	4SJh664	4SJ4201	SM06	dDw
5 spenC	1272	JSJh6	4h1JN	4N41-	4h- Nh	2M2J	dDw
5 GPmpcCr	- J71	2- 6h611S	20J010S-	2h04110h	20SS2hh0	11M4	dDw
5 GPmpcCr	- J72	224J40	2204h2	22h2J-	220Sh0	1M3J	dDw
5 Gpmb cmb	J272	- 6112	- 6S4h	- 6- 6-	- 610J	SM46	dDw
5 nesPT	Jh72	1hhh4	1hJJ0	1h0S0	1h0J-	1M12	dDw
5 nDDr p	6- 72	646S-	6JS42	64666	6400S	SM10	dDw
&EwDpnwcmb	1J671	41S- N	411- 1	- h4- 4	4SJ- 4	2MJ	dDw
&EwDpnwcmb	1J672	102SJ	1064J	10- 11	10- N0	1M12	dDw
Fpecmb	16471	- 1N22	- 220-	- 146-	- 1NJ-	1M2N	dDw
Fpecmb	16472	1- 24-	1- S6S	12h1S	1- S01	1M2N	dDw
HsonPCcmb	16S71	- J6J0	- 0261	- 0- J-	- 60J0	2M6S	dDw
HsonPCcmb	16S72	10J2J	10JNJ	16h21	10- 44	2M12	dDw
y nPb cmb	16J71	h60NNS6	hh16426	h22hJ00	h6SN20S	- M0-	dDw
y nPb cmb	16J72	- hNh221	42- S146	4106N04	41- 2SNS	- M36	dDw
tCocmb	11J71	6h6J- 46	02446N-	6Nh2NhN	0S- 4- Sh	2M64	dDw
tCocmb	11J72	h1S1h4	hJJ1Nh	h6JhSN	h4- 06-	- M1-	dDw
tpnC	J472	126JSS2	122J12h	122NJ0S	12- hJ60	1M0N	dDw
tpnC	J672	241NJ- - h	24- S60- S	2- Nh6J40	2412hJ- h	SMM0	dDw
tpnC	J072	J6h- 04	J04N1-	J6164-	J6N61S	1M16	dDw
KpEDTnC	N- 71	- 12	2h4	- 16	- S0	- M12	dDw
Lr so	2S671	N6J1N1	NJ212J	N61JN-	NJh62h	SM0N	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU26	&dPmTcnC UsdTnp:	1
&sTi Adb r qdOmpro:	2S2- 7S0712 16:2S:2J	&sTsUdP usb r:	S06q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l -	58l 9 rsC	58l . l &	RCdTw
Lr so	2S071	01hJ1h	01N616	01426N	01046N	SMlh	dDw
Lr so	2SN71	- 6S6hh4	- J64S0S	- J4J11-	- J02SJh	SMMh	dDw
LdTGmb	671	2JJS166	2J0SS1S	2J- 1S1S	2JJS- hJ	SM06	dDw
9 sgOr wcmb	2472	2JJS0S	2JJ122	24062h	2J26S0	1M01	dDw
9 sOgsOr wr	JJ72	6SSh6N	Jh- 1JS	JNh0Jh	Jh4626	SM10	dDw
9 nPEeor Omb	h471	0- 44	00S2	0J61	0J- 6	2M4S	dDw
9 nPEeor Omb	hJ71	- S60	- 2- 4	- 2N4	- 1hJ	- MJ	dDw
9 nPEeor Omb	h671	4S60	4J- 4	4J26	4- 06	6M1S	dDw
9 nPEeor Omb	h071	2S2J	1N2J	1N- 4	1NhJ	JM10	dDw
9 nPEeor Omb	hN71	4h1N	4Jh-	4026	404J	- M44	dDw
u r noEb omb	1JS71	04- SJ	0- hh6	0- N2-	04S42	SM-	dDw
u r noEb omb	1JS72	22- 4h	22- J2	21h1N	222S6	1M12	dDw
u dkr P	6S72	11- 4J	111S4	112J1	112- -	1MSN	dDw
8 GhwDGhpmw	- 172	- 1- 4	2h60	2NSh	2h0S	JM40	dDw
8 nTswwcmb	- h72	1h- - J0	1h4h64	1NN220	1h21N-	1MM-	dDw
. Ghocmb	1S- 71	6h1hJ6N	0SJ04S1	6NN0N- 6	6hJ4h- J	1M1S	dDw
. Ghocmb	1S- 72	- Sh4601	- 2h661N	- - S14N4	- 2- Sh24	- M0J	dDw
I dsCocmb	4J71	44N1004	46N1166	4JS4NhS	4JJJh4-	2Mh	dDw
I dsCocmb	4J72	1- Nh4h	142S1N	1446N1	141NN-	2MS2	dDw
I r P Ccmb	N271	N1	120	h4	1S1	2- M0-	dDw
I r P Ccmb	0072	1SS	11-	0S	h4	2- MS	dDw
I r P Ccmb	0N72	J1	6N	JN	Jh	14M4N	dDw
I dPdnC	2N71	1244S- JN	12JN6J1-	12- 66SS2	124642h1	SM1S	dDw
I dPr p	1S071	1- - 6J	141N-	141h1	1- h1-	- M41	dDw
I dPr p	1Sh71	1- 4S0	1- 06J	1- NJ0	1- 600	1M04	dDw
I nocmb	2- 72	JNSh1	J0hJ0	J0402	J0N4S	SM6	dDw
I TpnCTcmb	N671	144hJ1	1J112S	14h2h-	14N4J4	2M1-	dDw
I TpnCTcmb	NN71	120h- hN	12h6S0h	12N0SNh	12N0J22	SM0J	dDw
I mPmp	- 471	2JhS20	2J41- 4	2J- h- S	2JJ6h0	1M1-	dDw
Ar pecmb	1Jh71	h602NJJ	1S110JJ4	h0S110N	hN- SJ2h	2M-	dDw
Ar pecmb	1Jh72	- h- hh- N	41- 62J6	414S4Nh	4S0222N	2MM1	dDw
AGsPcmb	2S- 71	1- SS	1- 0J	1JSN	1- hJ	0M0	dDw
AGsPcmb	2SJ71	- S42	- - S1	- S60	- 1- 0	4M4	dDw
AdC	11N71	1hJ14	1hh2-	1h6S6	1h6N1	1MSh	dDw
AdSCcmb	4071	N2h- h	NJ402	N44h1	N4- S1	1M1	dDw
RpsCcmb	2- N71	41J- J	41- h-	4ShN-	41- S4	SM0h	dDw

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440712	tOwTpmb Or Tu sb r:	8N
5 Pr CTI sb DP t&:	9 y SU26	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:2S:2J	&sTsUdP u sb r:	S06q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	4S604	- N6h6	- N662	- h- 44	2M1-	dDw
YTTr pe omb	10271	h6S4	h12N	h0- 0	h4hS	- M0	dDw
YTTr pe omb	10272	4N0-	4JhJ	4JS1	46J6	4M16	dDw
YTTr pe omb	10671	026h	046h	0100	0- SJ	2M34	dDw
YTTr pe omb	10672	12010	141JN	1- 0NS	1- JJ2	JM1	dDw
YTTpomb	Nh71	120- 10- 4	1- 200h02	12N62h16	12hJ0J41	2M2S	dDw
YTTpomb	Nh72	12- h1- S	12h- - J1	1- 212S4	12N4J62	- M2J	dDw
ZdCd	6672	042- 0	0- hJ2	0- JhS	0- h26	SM44	dDw
ZqpdnComb	hS71	14h- -	1J6S1	1J2- 4	1J2J6	2M1h	dDw
ZqpdnComb	h171	- J- 4	- 010	- - 26	- J26	JM16	dDw

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LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	4- - SSS	42yy21	42- 8S8	428y1S	1USy	ql s
c n&Amonh	12171	2E2E	2684	2EES	2E86	- U2y	ql s
c rsenAq	0E72	1- S8	1- 16	12- 0	1280	- U 8	ql s
BarAum	1- E71	- 14S4-	- 14S- 6	- S4862	- 1Sy8S	1U0S	ql s
BarAum	1- 071	EE88E-	EE2y6E	E48- S0	EE- - 0E	SUy6	ql s
BerhllAum	y71	1681	10- 0	1026	101E	1U04	ql s
BAsmu&G	2Sy71	6y0402y	0- y6E8S	0004y24	0- 82S00	EU42	ql s
BAsmu&G	2Sy72	- 2S06E4	- - 48y84	- 2101EE	- 2E0y- 1	2U42	ql s
BromAne	8171	0800	8108	8E- 6	81y0	4US2	ql s
RaOmAum	1S871	21-	2E8	18-	218	10U 4	ql s
RaOmAum	1S671	42Ey	4SS1	46Sy	42yS	0U12	ql s
RaOmAum	11171	2661	266E	28S4	201S	- USS	ql s
RalqAum	4- 71	- 014EE	- 0- - 10	- 6040E	- 0S04y	SU8S	ql s
RalqAum	4471	626- 68y	6- 0y46y	61yE264	620y404	1U48	ql s
Rarbon	1271	E80400y	61S- Sy2	61408- 1	6S41yS1	2U42	ql s
Rarbon	1272	0- 620	0EEyE	0- 044	04- 22	1U4y	ql s
RGlorAne	- E71	2- 611- - 6	20- yy282	2yE1SE06	2684S- y8	11U14	ql s
RGlorAne	- E72	22- 1E2	226681	2- S066	226866	1U68	ql s
RGromAum	E272	- 01E2	- 6640	- 0- 12	- 0S- 0	SUy4	ql s
Robal&	Ey72	22EE1	226yE	22S10	22421	1UEy	ql s
RoI I er	6- 72	6E00E	664S8	66S0-	66S8E	SU48	ql s
t hsI rosAum	1E671	40210	46066	4E412	4646E	2US2	ql s
t hsI rosAum	1E672	1y6S1	18y1-	1y2S1	1y2- 8	1U8S	ql s
. rbAum	16471	- 66- E	- 686S	- E264	- 62E-	2U 8	ql s
. rbAum	16472	14641	14688	14- - 1	14EE4	1U -	ql s
HaOolAnAum	16S71	4126E	41S- y	412- 1	4110y	SU S	ql s
HaOolAnAum	16S72	2S2Ey	1y60E	1yES8	1y814	1Uyy	ql s
9 olmAum	16E71	1SS1204-	1SSE- 8E0	11- ySy26	1S48E842	0U48	ql s
9 olmAum	16E72	416SS8-	4180144	4S448- y	41- S68y	1U8-	ql s
DnOAum	11E71	0- 0E0yy	0466180	8Sy- y62	064E- 16	EU12	ql s
DnOAum	11E72	y6S- S4	yE- Ey6	y40486	yE- 0yE	SU60	ql s
Don	E472	1- 88000	1- 0SE- E	1- 8E6S4	1- 816- y	SU01	ql s
Don	E672	2ES- 0- Ey	24E082E-	24080448	248S1S2S	SUy-	ql s
Don	E072	6SS442	E8y18y	E8y- 0S	Ey- SSS	1USy	ql s
Krhl &on	8- 71	- - E	- 40	281	- 21	1SUy6	ql s
LeaO	2S671	420S0-	4- 0- 82	4212S8	428EE4	1Uy1	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- E0114	- 64y- 1	- 44S44	- EE- 6-	2Uy0	ql s
LeaO	2S871	160yy62	10SE80S	16- 424E	160- - Ey	2U10	ql s
LA&GAum	671	246- 801	2E88811	28228y6	262E1y-	6Uy4	ql s
5 agnesAum	2472	68S- yE	68864y	60E062	6816S2	SUy6	ql s
5 anganese	EE72	- - 82S0	- - 6444	- - - - y0	- - 6S16	SU02	ql s
5 olhbOenum	y471	yy0S	1SS2y	1S- y6	1S1- 2	2U28	ql s
5 olhbOenum	yE71	2y10	2y42	28ES	2yS-	1U6-	ql s
5 olhbOenum	y671	4068	4606	4- 10	4E80	EU1y	ql s
5 olhbOenum	y071	1y0E	18y2	1042	180S	6U-	ql s
5 olhbOenum	y871	4ES1	4484	40S1	4E62	2U64	ql s
NeoOhmAum	1ES71	8S6- E	81144	0yyES	8SE06	SU04	ql s
NeoOhmAum	1ES72	24y80	244E6	2- 0y8	2441-	2U44	ql s
NAqkel	6S72	124- 6	1220E	12E0y	124- S	1U22	ql s
PGosI Gorus	- 172	E01S	EyE1	E468	E01S	4U2-	ql s
Po&assAum	- y72	4SS1S6	- y10y4	- y4y- y	- yE61-	1US6	ql s
CGoOAum	1S- 71	016002y	020- EyS	0yE0S22	0466114	EU04	ql s
CGoOAum	1S- 72	- 218626	- 2S0E40	- 282y14	- 2- 6- 62	1U26	ql s
pqanOAum	4E71	4620E81	4680228	E2yS0- E	4868E1E	0UE4	ql s
pqanOAum	4E72	1440S4	14- 26S	14SyS1	142yEE	1U4	ql s
pelenAum	8271	116	82	166	122	- 4U6-	ql s
pelenAum	0072	6-	8-	y0	81	2SU6y	ql s
pelenAum	0872	80	06	84	82	6Uy1	ql s
pAAqon	2871	y1- E- 1y	y1Ey08E	8y4S242	yS0844y	1U-	ql s
pAver	1S071	- 8- 4	- 426	- 8Sy	- 68y	6U21	ql s
pAver	1Sy71	- 4y2	- 442	- EE1	- 4yE	1UEE	ql s
poOAum	2- 72	E2648	E1Syy	ES- 88	E1- 08	2U2E	ql s
p&ona&Aum	8671	- 84ES6	- y4- 22	- 081y-	- 8E60-	2U11	ql s
p&ona&Aum	8871	- E48- - 8	- E- SyS1	- 42y820	- ES- S22	1U8-	ql s
pulfur	- 471	2084E4	2826- 4	2801E6	282048	1UE4	ql s
i erbAum	1Ey71	1S22- 212	1S44E2S0	11- 222E0	1S66- EEy	EU4E	ql s
i erbAum	1Ey72	416Sy46	- yy- E- 4	4S4S- 2-	4S64y- 4	2U12	ql s
i GallAum	2S- 71	1010	1E10	1442	1EE8	yU12	ql s
i GallAum	2SE71	4SSy	- 0Ey	- 260	- 608	1SU26	ql s
i A	11871	1- - 24	1- - yS	12y1E	1- 21S	1UyE	ql s
i A&anAum	4071	yS8yE	y- Ey0	y4S60	y28E-	1U84	ql s
MranAum	2- 871	E- 82-	EEES6	E- SS-	E4111	2U6	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44071-	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 0	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:2- :22	t a&aFAe Name :	S00c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- E- 14	- 6266	- E0EE	- E008	1U -	ql s
Y&erbAum	10271	1S4S4	1Sy- 8	1S20y	1SE41	- U 2	ql s
Y&erbAum	10272	ES- 4	E14S	4yyE	ESE0	1U48	ql s
Y&erbAum	10671	8S6y	0y6y	8486	810E	- U E	ql s
Y&erbAum	10672	14- 14	1- 804	14S46	14S08	1UE0	ql s
Y&&Aum	8y71	1- - 2- S86	1- 64414y	1E288686	14S8E- S0	0U4y	ql s
Y&&Aum	8y72	1- 86460	1- S62E4	1- S- 0E8	1- - 216S	- UE-	ql s
ZAnq	6672	40SE1	48S81	404Ey	40E- 1	1USy	ql s
ZAqonAum	yS71	2- 2yE	241- S	22600	2- - 60	- U 2	ql s
ZAqonAum	y171	ESy-	ES68	E4E1	E2S4	4U 2	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	42Sy80	4S2- 28	412108	4118- 1	2U20	ql s
c n&Amonh	12171	2210	1yES	24Sy	21y2	1SUES	ql s
c rsenAq	0E72	1446	1- 0S	1- E0	1- y1	- U46	ql s
BarAum	1- E71	2y8- 6-	- S4Sy8	- S6626	- S- S2y	1U4S	ql s
BarAum	1- 071	E- 8- 8E	E- ES- -	E- 00SS	E- 0S- y	SU-	ql s
BerhllAum	y71	16y0	102y	1626	1684	- U12	ql s
BAsmu&G	2Sy71	68y486y	6y0S8Ey	6y01- 60	6y4E6yy	SU6-	ql s
BAsmu&G	2Sy72	2y00y4y	- - E- 606	- 21E80-	- 1824yy	EUy0	ql s
BromAne	8171	001y	8211	8128	8S1y	- U28	ql s
RaOmAum	1S871	1y2	242	16-	1yy	2SU16	ql s
RaOmAum	1S671	44E1	- y84	- yy2	4142	6U4E	ql s
RaOmAum	11171	2211	21y6	2- 2-	224-	- U1S	ql s
RalqAum	4- 71	- E6428	- 6S20y	- E2621	- E644-	1US0	ql s
RalqAum	4471	Ey6S01E	6S2016E	Ey- - 6E-	Ey0- 844	SU31	ql s
Rarbon	1271	- 6- - 02y	- 0- yE8S	- 00- 1y1	- 01EESS	1Uy6	ql s
Rarbon	1272	44620	4E- 0S	4E6- 8	4E212	1U16	ql s
RGlorAne	- E71	2- - 6216S	20S8E06E	286- 0444	26- 610yS	1SU28	ql s
RGlorAne	- E72	218SE8	21821S	22E- yE	22SEE4	1UyS	ql s
RGromAum	E272	2y80E	2881y	2y- 1-	2y- - 6	1U3S	ql s
Robal&	Ey72	2S002	2Sy22	2SE- 2	2S042	SUyE	ql s
RoI I er	6- 72	E28E8	ES2SE	ES8S0	E12yS	2U01	ql s
t hsI rosAum	1E671	4ES18	4- S0y	4- 0- 1	4- y4-	2U2E	ql s
t hsI rosAum	1E672	10y- y	10y42	1004E	1080E	SU6-	ql s
. rbAum	16471	- - 8S2	- 2- - 2	- - Ey-	- - 242	2Uy	ql s
. rbAum	16472	1- 44S	1- 210	1- - S0	1- - 21	SU34	ql s
HaOolAnAum	16S71	- 8114	- 00y6	- y18-	- 8- 64	1U3y	ql s
HaOolAnAum	16S72	18- - y	10yyy	18- 2y	1822-	1US6	ql s
9 olmAum	16E71	1SS1y2- 0	y8y6S00	y8SyEyy	yyS8- S4	1US6	ql s
9 olmAum	16E72	- 8640Ey	42SE0S8	4166E12	4S08yy-	4UE0	ql s
DnOAum	11E71	0SSSEy-	02800E8	02208- y	0102S6-	2U11	ql s
DnOAum	11E72	8EE864	y66S8E	y- 00y8	y1yy16	6U22	ql s
Don	E472	12460- 8	110y180	118S1S-	12S2S1S	- U22	ql s
Don	E672	2- - 8- 68y	2284yS06	2- SEy066	2- Sy0E1S	1U10	ql s
Don	E072	EE8820	E42- 01	E44y2-	E480S0	1U61	ql s
Krhl &on	8- 71	2y4	2y2	281	28y	2U8	ql s
LeaO	2S671	- 640Sy	- 66826	- 68E42	- 666y2	SUE2	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAen&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	- S22- 8	- S0S66	- SE2ES	- S48E1	SU3S	ql s
LeaO	2S871	141- 08E	1420E- -	14- 10y2	1424- 0S	SU66	ql s
LA&GAum	671	2E11844	2E2y81S	2E2- 1E4	2E216S-	SUJ6	ql s
5 agnesAum	2472	4E- S06	4- 88- 2	44y06y	440226	1U60	ql s
5 anganese	EE72	- 180- 1	- S81- 4	- 11EE2	- 128S6	1U0-	ql s
5 olhbOenum	y471	86S-	8yS-	y62S	yS42	EU08	ql s
5 olhbOenum	yE71	2110	2- SS	2284	22- 4	4UE4	ql s
5 olhbOenum	y671	- E06	4SS1	- 826	- 8S1	EU62	ql s
5 olhbOenum	y071	14S8	1- ES	102E	14yE	1- UES	ql s
5 olhbOenum	y871	- - ES	- 810	- 026	- 6- 1	6U31	ql s
NeoChmAum	1ES71	0E820	0Ey2S	0021E	06- 21	1US2	ql s
NeoChmAum	1ES72	22y4-	22- yy	2- 1S0	22816	1U62	ql s
NAqkel	6S72	1S28S	1S1E0	1S104	1S2S4	SU66	ql s
PGosI Gorus	- 172	28- 4	2EES	2410	26SS	8U18	ql s
Po&assAum	- y72	2406SS	241112	24E1- E	244616	1UJ4	ql s
CGoOAum	1S- 71	0S218SS	0- - E6- E	6y8yy14	011E08-	2U6y	ql s
CGoOAum	1S- 72	2y206Ey	- 2S6006	- 1860- 6	- 1S0SE0	EUS1	ql s
pqanOAum	4E71	4E01681	40S12y1	448E220	4E86S66	2UJ0	ql s
pqanOAum	4E72	1202y4	142- Sy	14SES0	1- 60S-	6USS	ql s
pelenAum	8271	64	1SE	y6	88	24U61	ql s
pelenAum	0072	E0	8S	0S	6y	16Uyy	ql s
pelenAum	0872	64	E8	6S	61	EUS-	ql s
pAAqon	2871	1SS1021-	1S1818S2	1SS284y0	1SS0E8- 8	SUy1	ql s
pAver	1S071	20ES	- S- 4	20SS	2828	6UJ6	ql s
pAver	1Sy71	20y2	20Sy	2042	2048	1UE-	ql s
poOAum	2- 72	60666	6E6yy	66862	66042	1U48	ql s
p&ona&um	8671	- 6- - 1y	- 61y18	- 6S06S	- 61yyy	SUJE	ql s
p&ona&um	8871	- - 01648	- 20E8SS	- 281S0E	- - SyES8	1U6-	ql s
pulfur	- 471	26811-	268y82	201yES	26y681	SU0E	ql s
i erbAum	1Ey71	1SS806- E	1S20SyE4	1SS11- 0S	1S12- - 2S	1UJ2	ql s
i erbAum	1Ey72	- 66yy80	41664y4	4S6182S	- y661SS	6U6S	ql s
i GallAum	2S- 71	1- 0E	120E	148-	1- 08	0UE6	ql s
i GallAum	2SE71	- - Sy	- - 10	- - 84	- - - 0	1U2-	ql s
i An	11871	1- E- 2	12E81	12yyS	1- S- 4	- U66	ql s
i A&anAum	4071	0ESy6	00- - -	0E- 82	0Ey- 0	1U6S	ql s
MranAum	2- 871	2800E	- S42y	- S4y6	2yySS	- U26	ql s

Reviewed By:Bin
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Inst Id :P8

LB Number :	LB1264S0	3 I era&or :	Jaswal
Lab pamI le D :	3 - 440714	Dns&umne&Name :	P8
RIAn&pamI le D :	5 9 SF- 8	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 16:26:22	t a&aFAe Name :	S08c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	E172	- 4yE-	- 4411	- - y- 0	- 44- 4	1U48	ql s
Y&erbAum	10271	yy01	yy0y	y080	yy12	1US y	ql s
Y&erbAum	10272	4y62	40E1	48S1	48- 8	2U28	ql s
Y&erbAum	10671	0011	0E- 6	04y4	0E8S	1UE2	ql s
Y&erbAum	10672	120E1	141E2	14Sy0	1- 660	EU31	ql s
Y&&Aum	8y71	1- - SE0- E	1- 4y- E20	1- E20206	1- 44210y	SU3y	ql s
Y&&Aum	8y72	11yE2- S	1- 46S- 2	12y64- 8	120y2- -	6US1	ql s
ZAnq	6672	- - 0S-	- 1y4y	- 1y- 6	- 2E- S	- U12	ql s
ZAqonAum	yS71	1y06E	1yy6E	1yy2-	1y884	SUE-	ql s
ZAqonAum	y171	4606	44- 4	42- 4	4448	4Uy0	ql s

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16.J2aJ1a	TwiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	4 410	44a - 2	442u2	44uu44	1R20	Qt I
d. iqe C. E	12171	20Sa	2uSa	2u10	200u	2R10	Qt I
dIl p. qO	0 72	224	216-	210S	21a-	2RS0	Qt I
Bwldpe	1- 71	2 2S00	24 114	242210	24646a	2RS6	Qt I
Bwldpe	1- 071	4- aa1	4- aSu4	42aS 4	4- 401S	1R1u	Qt I
BplE8dpe	a71	1640	16u6	1611	164u	2R2u	Qt I
Bdqe biG	2Sa71	62 6S1	0 u400	00 uaa	01aaa2u	11R42	Qt I
Bdqe biG	2Sa72	- 244uua	- 2a6611	- 2640- u	- 26u046	SRuS	Qt I
BlCe q p	u171	16 20	166-	1uS- 0	10S66	4Ra4	Qt I
9 wne dpe	1Su71	21-	2S4	2a6	2- u	21R 4	Qt I
9 wne dpe	1S671	- 006	4u06	4406	4- 06	12R0-	Qt I
9 wne dpe	11171	- 1- -	- - 24	- 1u-	- 21-	- RSu	Qt I
9 w8Qdpe	4- 71	022ua2	01SaSa	0104- -	010S0u	SRu4	Qt I
9 w8Qdpe	4471	121112- 2	121241Su	12S6ua4S	121S1420	SR24	Qt I
9 wlr C.	1271	ua2 uaa	a26SS0a	a2a6u46	a16Sa41	2R2-	Qt I
9 wlr C.	1272	11 a14	114S- 2	11- - S-	114416	1R1u	Qt I
9 G8Clq p	- 71	22226440	2 6SaSu	20- 1- 444	2 S4a6 a	1SR 4	Qt I
9 G8Clq p	- 72	2SS 0	2S 410	2Su041	2S4aS	2RS1	Qt I
9 GlCe dpe	272	- 4642	- 44au	- 41 1	- 44- S	SR0-	Qt I
9 Cr w8	a72	- 1642	- 11au	- Sa- 4	- 12 u	1R14	Qt I
9 Ct t pI	6- 72	u204-	u1a u	u- S20	u2 06	SR60	Qt I
TEl t ICl dpe	1 671	424a-	41- au	4S40a	414 0	2R4-	Qt I
TEl t ICl dpe	1 672	10214	16a01	16u01	10S1a	1RS4	Qt I
Ulr dpe	16471	- - a44	- 4au	- 46S4	- 46u2	2R2	Qt I
Ulr dpe	16472	1- uS1	1- 4S	1- 21-	1- 1u	2R1u	Qt I
HwnC8q dpe	16S71	- 010u	- 0u6-	- uS14	- 06u	1R1u	Qt I
HwnC8q dpe	16S72	1u4- S	1064u	10- - 1	10uS-	- R10	Qt I
h C8e dpe	16 71	uu- 2 6u	1Sa2- 002	112SS244	1S- 1uu62	12R	Qt I
h C8e dpe	16 72	411 6S4	42060u0	42Sa0aS	42SS020	1Ra-	Qt I
& ndpe	11 71	62u6260	0u4 a	uSSS4Su	0- 00 4-	12Ru	Qt I
& ndpe	11 72	a44041	a6 SS2	a6 4a	a u41-	1R24	Qt I
&C.	472	1au0u u	2S4- - u4	2S1 60a	2S1 641	1R u	Qt I
&C.	672	- 0SSa a	- 6406S44	- au4S12	- 64uauu4	1R41	Qt I
&C.	072	u02 1a	u0 aSS	u uaa6	u6a1- u	1RS-	Qt I
KIEt iC.	u- 71	- 24	2ua	- S0	- S0	R01	Qt I
Lpwn	2S671	1a14- u	1uu41S	1u- uu4	1u0a1S	2RS2	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	&I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	TwiwMt8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1 - u -	1 1ua0	1 1S61	1 2201	SRa4	CI I
Lpwn	2Su71	020u6a	01a2 S	021662	022a20	SR62	CI I
LqiGqpe	671	22a 24	204u S6	206S20	26S1- 42	1SR1a	CI I
y wg. pl qpe	2472	24S2u 1	2- a1uu2	2- 2a1SS	2- 04611	1R6u	CI I
y w. gw. pl p	72	S 11S	SaS 6	4a0S2a	S- 0- 2	1R22	CI I
y C8Er np. be	a471	1SS21	1S0- u	1S1- 0	1S2aa	- R04	CI I
y C8Er np. be	a 71	46 1	40- 4	4a 1	400a	- R24	CI I
y C8Er np. be	a671	64S2	6u00	6S00	64 2	6R24	CI I
y C8Er np. be	a071	2a a	- S42	20 a	2a2S	4Raa	CI I
y C8Er np. be	au71	06a4	6au	0644	0441	R 2	CI I
mpCnEe qpe	1 S71	6 110	6 u2u	64a- 0	6 2a4	SR02	CI I
mpCnEe qpe	1 S72	1au- 2	1a uu	1a- 40	1a ua	1R24	CI I
mqCkp8	6S72	2S1- u	1a020	1a6S4	1au2-	1R41	CI I
NGCI t GCIbI	- 172	1SS- 0	1S646	1S22a	1S- S4	- RS2	CI I
NCiwI l qpe	- a72	- S60	- S062a	- S 4 u	- S6614	SR 6	CI I
F GCndqpe	1S- 71	62a 1u6	0620- 21	uS- S226	0- 10 0u	12R41	CI I
F GCndqpe	1S- 72	- 1 0 06	- 2S1141	- - 641a0	- 24Sa01	- R 6	CI I
DCw. nqpe	4 71	4S6a2 2	S- 0226	1u2 41	406- SS0	12R01	CI I
DCw. nqpe	4 72	142Suu	144aS0	14 1 2	144S4a	1R1u	CI I
Dp8p. qpe	u271	2 6	20	21	24a	12R 4	CI I
Dp8p. qpe	0072	u-	1S-	0S	u6	1aR61	CI I
Dp8p. qpe	0u72	a1	aa	u0	a2	6R62	CI I
Dq8qC.	2u71	1S4- 2a0S	a aa 4	a40u24u	au2- 024	R a	CI I
Dq8vpI	1S071	1a10	21- 4	1a0	2SSa	R u	CI I
Dq8vpI	1Sa71	1a S	1u10	10- -	1u- 4	Ra6	CI I
DCnqpe	2- 72	- a 140	- a6606	- uaSuu	- a- 6- 0	1RS2	CI I
DiIC. iqpe	u671	60au 1	604062	66 46	60- - 6S	1RSu	CI I
DiIC. iqpe	uu71	624u624	6S4646S	au- ua2	6Sa2aa2	2R20	CI I
Db8bI	- 471	- 4a- 1S	- Su- 1	- 1uu4	- S60	SR 0	CI I
cpIr qpe	1 a71	uaa160-	112a1 00	114- 110a	1S 01406	12Ra6	CI I
cpIr qpe	1 a72	4SS012a	414u2u2	412160	4Sa2- 62	1Ru-	CI I
cGw8qpe	2S- 71	10u4	1u S	1660	1060	R2	CI I
cGw8qpe	2S 71	41S1	- a10	4- 4-	412S	R1u	CI I
cq	11u71	46S	66u	- S1	406	- R 6	CI I
cqiw. qpe	4071	0 2a4	0424-	02- 2	0- a 4	2RS4	CI I
5 Iw. qpe	2- u71	1uS4u1	10uuu4	10u0Su	10a- u	SR 4	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM- a	T 8piqC. :MwCICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16J2aJ1a	T wiwMd8p:mwe p:J	S0ad F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	172	4a4u2	4uS44	406- a	4u- uu	2RSS	CI l
Yiiplr dpe	10271	1S- 4	11S	1116-	1Su u	4RS	CI l
Yiiplr dpe	10272	112	Su4	11u	1S	SR	CI l
Yiiplr dpe	10671	u4 -	uS1a	u144	u2S6	2R02	CI l
Yiiplr dpe	10672	1- - 46	1- uS0	14u -	14SS2	R 2	CI l
Yiildpe	ua71	121S2142	146- 146-	14au 6SS	1- aS64S2	11R 1	CI l
Yiildpe	ua72	1- 11a 2	1- 1au22	1- aaa0-	1- 4- a16	- R62	CI l
Zq O	6672	0- a-	04S6-	02a 0	0- 6 1	SR02	CI l
ZdqOC. dpe	aS71	2Saa1	21026	221	21624	2R02	CI l
ZdqOC. dpe	a171	40- 4	4u- 4	4u1u	40a	1R12	CI l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psml Re D :	5 9 SF4S	t AR&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAum	2072	40SJ22	460SJ-	46J- J0	46J064	SU4S	ql w
cn&Amony	12171	1hhJ	102h	16hJ	1640	hUSE	ql w
crwenAq	0h72	- 121	- 1- h	- 14S	- 1- 2	SUJ1	ql w
BsrAum	1- h71	1JS6h6	1J0- J6	1J- 0JJ	1J- E4-	1UJ-	ql w
BsrAum	1- 071	- 2216h	- - 6E41	- 21- J2	- 26J2E	2U6J	ql w
BeryPAum	E71	1J02	1E60	1J04	1ES4	2UJ6	ql w
BAumu&G	2SE71	6EEhE- 4	h2- 164-	6- ESh6S	62S6S46	14U4h	ql w
BAumu&G	2SE72	- 22hJJ0	- 2S2104	- 2S4SS0	- 21S6JE	SU41	ql w
BromAne	J171	hEJh	60Jh	6h00	644E	6U44	ql w
RsOmAum	1SJ71	1hS	21-	160	106	1JUJh	ql w
RsOmAum	1S671	444-	- S0h	- E10	- J12	1JUSE	ql w
RsOmAum	11171	1Eh6	1J21	10JJ	1Jhh	4UJS	ql w
RsRqAum	4- 71	11hJ461	124E610	126S461	1222J46	4UhJ	ql w
RsRqAum	4471	1E10021h	1EE24E- 2	2SSJJ42S	1E0- S1JE	2U46	ql w
Rsrbon	1271	- S2220h	- S14- Jh	- Sh- 4- 0	- S- SS- 2	SU6J	ql w
Rsrbon	1272	- 6J- J	- 6262	- 61- 0	- 6412	1US-	ql w
RGPorAne	- h71	2162E- h2	2h2J146S	2000Eh- J	24JE60J-	12U42	ql w
RGPorAne	- h72	2S1E1E	2S62h-	214E0E	2S0010	- U2S	ql w
RGromAum	h272	- 1- 44	- S0J6	- S0JS	- SE0S	1USh	ql w
RobsR&	hE72	- EJS6	- E224	- E1SS	- E- 00	SUE6	ql w
RolI er	6- 72	0J6J0	0JS00	0Jh6S	0J441	SU41	ql w
t ywl rowAum	1h671	hSE6h	h114E	hS6Sh	hSES6	SUh4	ql w
t ywl rowAum	1h672	2SJES	21200	2SJ06	21S14	1USJ	ql w
. rbAum	16471	44SE1	4h02E	4- 2E6	44- 02	2UJS	ql w
. rbAum	16472	1J- - 6	1040h	10h0h	100Eh	2U6h	ql w
HsOoPAum	16S71	4J4Sh	4J- 40	46hS0	400h-	2U26	ql w
HsOoPAum	16S72	222E2	222EE	22h6E	22- J0	SU01	ql w
9 oPmAum	16h71	1S1E020h	0424E- J	E1JS1JS	JE- 41- 1	1hU0S	ql w
9 oPmAum	16h72	422SS42	41J2- 2-	4Shh- J6	41h2hJ4	2USJ	ql w
DnOAum	11h71	024E612	h- - 60E6	641h2- 1	6- - - JJS	1hU14	ql w
DnOAum	11h72	E4JEJ6	E4- 0EJ	E2hE02	E- EhJh	1U2J	ql w
Don	h472	26S1- J2	2hE4114	2hJJS- 2	2hE4hSE	SU26	ql w
Don	h672	46- JhJhE	4660JSJS	4600hEhJ	4661- 2EE	SU44	ql w
Don	h072	11S0JhJ	11S- 64S	11SE6J2	11S0S6S	SU2J	ql w
Kryl &on	J- 71	2E2	- hS	- - 6	- 26	EU2S	ql w
LesO	2S671	2226J6	2- 6S6J	2- 2ShS	2- S26J	2UEJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 I ers&or :	aswl sP
Lsb psmI Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RAen&psmI Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	1J4212	1E102h	1JJ6E-	1JJ21S	2US1	ql w
LesO	2SJ71	J0- SSS	E1E- 0E	JEEEE6	JE04hJ	2U6S	ql w
LA&GAum	671	2h140hh	2S2hJh-	2- 4144h	22E4S1J	1SUJ1	ql w
5 sgnewAum	2472	2S0E6JS	2SJ- E40	2S4E2E-	2S0SE0-	SUE1	ql w
5 sngsnewe	hh72	206EE2	206h0-	20J0Jh	2004hS	SU42	ql w
5 oPybOenum	E471	2- 161	2- 10J	2- 462	2- 260	SU0-	ql w
5 oPybOenum	Eh71	464-	4626	401J	4662	1USh	ql w
5 oPybOenum	E671	J10J	J42J	Jh- 6	J- J1	2U1E	ql w
5 oPybOenum	E071	- ShS	202h	200h	2JhS	6U14	ql w
5 oPybOenum	EJ71	0400	0400	0h11	04JJ	SU26	ql w
NeoOymAum	1hS71	00E60	J140-	0J4Eh	0E- 12	2UJJ	ql w
NeoOymAum	1hS72	2- - S0	2- 4SS	2- - h1	2- - h-	SU2S	ql w
NAqkeP	6S72	206E4	2601J	26JE6	201S-	1UE2	ql w
8 GowI Goruw	- 172	- 242	- 460	- 210	- - SE	4U16	ql w
8 o&swwAum	- E72	21- 4Eh	2SES- 4	2SEJ- 0	21S0JE	1U1-	ql w
CGoOAum	1S- 71	0212E1h	h202S24	6- hJ4JS	62J114S	1hU4E	ql w
CGoOAum	1S- 72	- 1E1h66	- 1J- ESS	- 1462h2	- 10- ES6	SU06	ql w
pqsnOAum	4h71	46664EE	- 4- 6EJJ	4264- 00	4122621	1hU21	ql w
pqsnOAum	4h72	142- 0J	144hS0	1421h2	14- S12	SUE1	ql w
pe&enAum	J271	2hE	161	1J2	2S1	2hUh-	ql w
pe&enAum	0072	1S-	1S-	00	E4	16UJS	ql w
pe&enAum	0J72	J4	E4	ES	JE	hU6-	ql w
pAqon	2J71	1h- 1J644	1h- 1124h	1h416666	1h- 4JJh2	SUJJ	ql w
pAer	1S071	1E60	21hS	2SE2	2S0S	4Uh-	ql w
pAer	1SE71	1JJ4	10SJ	10E2	10Eh	4UJJ	ql w
poOAum	2- 72	6hJ22h	646JS2	64hSSE	6hSS12	1U1S	ql w
p&onAum	J671	h460Sh	h02S11	hhEES1	hhEh- E	2U26	ql w
p&onAum	JJ71	hS2426h	h210hSh	h112104	h110EJ1	1UJE	ql w
pu&ur	- 471	EE6J4E	1S1- 4S4	1S142E0	1SSJ1J-	SUE0	ql w
i erbAum	1hE71	1S- 2- - 06	061- 6Sh	E1JS64E	ES- E21S	1hUSh	ql w
i erbAum	1hE72	4S12622	4SSES20	- EJS2Jh	4SSS64h	SU44	ql w
i GsPAum	2S- 71	1E2h	2SJ4	2ShE	2S22	4U21	ql w
i GsPAum	2Sh71	4hh1	h1h1	hSh1	4E1J	6Uh4	ql w
i A	11J71	1ESJS	1E- J1	1E0J1	1E414	1UJ1	ql w
i A&snAum	4071	4h- 14	46h26	4h4EJ	4h00E	1U4-	ql w
MrsnAum	2- J71	JEJSJ	E- 2h1	E420h	E244h	2Uh-	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l ers&or :	aswl sP
Lsb psml Re D :	3 - 440716	Dw&umne&Nsme :	8 J
RFen&psml Re D :	5 9 SF4S	t A&on Fsq&or :	1
t s&e T i Ame cqduAeO :	2S2- 7S0712 16:- 2:1J	t s&sFAe Nsme :	SJ Sc C. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	hh011	h4JSJ	h- J04	h40EJ	1U6J	ql w
Y&erbAum	10271	1- 21h	1- J16	1- - 1h	1- 44E	2UJ E	ql w
Y&erbAum	10272	6- Jh	6- Jh	641J	6- E6	SUJ S	ql w
Y&erbAum	10671	E6Eh	E0- 0	1SS46	EJ26	1UEh	ql w
Y&erbAum	10672	1hh01	14J- 1	1h1J0	1h1E6	2U4-	ql w
Y&&Aum	JE71	1- 0614EJ	1S2E114h	12S2J002	12S201- J	14U4-	ql w
Y&&Aum	JE72	1- 16066	1- Sh1Jh	120E6- J	1- SSh- S	1U46	ql w
ZAnq	6672	4- 010	4- S0h	446SS	4- 0EJ	1U0h	ql w
ZAqonAum	ES71	h- - J6	h6JSJ	hhS4-	hhS0E	- U11	ql w
ZAqonAum	E171	124J1	1260-	12Eh6	120S-	1UJJ	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r:	SN1q. FUMd

8 sps b r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	JS6101	J1S- 4S	JSJJS-	JS0- - N	SM12	dDw
qCTb nCh	12171	110J	12- -	1- 10	1242	JN0-	dDw
qpwr Ccd	0J72	1S4J	111-	11- E	1SEE	4M12	dDw
Bspcmb	1- J71	2JS412	2J222E	2J6410	2J- S1E	1M12	dDw
Bspcmb	1- 071	4- EJ- 1	44J626	44NJ- 6	444J64	1N8-	dDw
Br phPmb	E71	1E14	1E4E	1EJ6	1E- E	1M10	dDw
Bcwb mTG	2SE71	01SN10E	011N40E	666N0E0	6E6J1J2	- N0E	dDw
Bcwb mTG	2SE72	- - 2- 41E	- - S4S42	- 1E- 1S0	- 20- J2-	2M1J	dDw
Bpmb cCr	N171	64- J	0120	66- J	60- 2	JN2E	dDw
5 sob cmb	1SN71	N-	01	- -	62	41N04	dDw
5 sob cmb	1S671	- E06	44SE	- 0JE	4S4N	NM1N	dDw
5 sob cmb	11171	E1S	E66	N61	E12	JN0N	dDw
5 sPdcmb	4- 71	E1SJ1	E- 1N1	E- 0- 6	E26J6	1M-	dDw
5 sPdcmb	4471	16- N4JJ	16- S12E	16J2J2J	164S- 0S	SN0E	dDw
5 spenC	1271	- 1EN211	- 2- N6N0	- 26S- 2J	- 2- 24SN	SNEN	dDw
5 spenC	1272	- 0N24	- E11E	- N2N4	- N4SE	1N01	dDw
5 GPmpcCr	- J71	222121N-	26462144	2ES2JS62	2JNEE0E6	1- N2E	dDw
5 GPmpcCr	- J72	2140N-	2102E0	224J04	21NNNJ	2M12	dDw
5 Gpmb cmb	J272	- - N2S	- - 10J	- - - - E	- - 44J	1N8S	dDw
5 nesPT	JE72	2S16N	1E64S	1EE- 4	1EE14	1M-	dDw
5 nDDr p	6- 72	402JJ	46462	46E11	46N06	SNNJ	dDw
&hwDpnwcmb	1J671	0SE40	6E016	0262-	01SEJ	2N8J	dDw
&hwDpnwcmb	1J672	2E222	2NESN	2E1EE	2E11S	SN0S	dDw
Fpecmb	16471	JJJ42	JJNE-	J612S	JJNJ1	SM12	dDw
Fpecmb	16472	226N6	22S02	21NEN	2221E	1NN6	dDw
HsonPCcmb	16S71	JN24J	JE- 2J	JE606	JESN2	1N26	dDw
HsonPCcmb	16S72	206NE	200SE	20602	206ES	SN80	dDw
y nPb cmb	16J71	1S- 2JJ1N	1S10E606	E22N020	EE11- S0	6N81	dDw
y nPb cmb	16J72	42EJ2E6	414601S	41040- 1	42SJJ0E	1NNN	dDw
tCocmb	11J71	04S6E04	04J2E66	66E2E06	01N4- SJ	JNE-	dDw
tCocmb	11J72	E0JE22	EJ0S44	E4NE06	E6S640	1M14	dDw
tpnC	J472	1JN- 16J	1J0NN1-	1J6606-	1J06240	SM14	dDw
tpnC	J672	2N- 06E10	2N44- - S1	200E41S-	2N2S400-	1N20	dDw
tpnC	J072	6N2E20	6NS- 0S	664N20	606S41	1M1J	dDw
KphDTnC	N- 71	- - S	- 41	2N4	- 1N	EM10	dDw
Lr so	2S671	146ESE	1400JJ	1JS4E1	14N- NJ	1N26	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r:	8 N
5 Pr CTI sb DP t&:	9 y SU4J	&dPmTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP usb r:	SN1q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	11N401	12S142	121212	11EE42	1M1J	dDw
Lr so	2SN71	J0S64N	J044- E	J0E0SE	J04E- 2	SM0E	dDw
LdTGcmb	671	26- NE- 4	260S21-	2422- 60	2J00101	JM24	dDw
9 sgOr wcmb	2472	- 2E20N	- 1E146	- 2J422	- 2461J	1MIN	dDw
9 sOgsOr wr	JJ72	- NJJ64	- N- - 4J	- 0NJ4N	- N24N6	SMEE4	dDw
9 nPheor Ocmb	E471	6J1N	664-	6000	6646	1NE4	dDw
9 nPheor Ocmb	EJ71	20JS	2- JS	2JJE	2JJ-	0NM4	dDw
9 nPheor Ocmb	E671	- 0JE	- EJ1	- N10	- N42	2M6	dDw
9 nPheor Ocmb	E071	16SN	1660	1NSS	16E2	JNM1	dDw
9 nPheor Ocmb	EN71	- EJ1	4142	4S60	4SJ-	2MIN	dDw
u r nohb ocmb	1JS71	12410S	12JJ10	12J6- 1	12J1S6	SM0J	dDw
u r nohb ocmb	1JS72	- NJN6	- 0121	- N110	- 0E41	1NE0	dDw
u dkr P	6S72	11N6J	110- 2	11N- J	11N11	SMIE	dDw
8 GhwDGhpmw	- 172	1- E2	1J- -	14SS	1442	JM1	dDw
8 nTswwcmb	- E72	2SN- N1	21S- 20	211JJ4	21SSN0	SM06	dDw
. Ghocmb	1S- 71	0414E66	02100JN	6626N- N	0SN6J21	JM0E	dDw
. Ghocmb	1S- 72	- 2S- - 2N	- 24SE24	- 16J12S	- 2S- 124	1MIN	dDw
I dsCocmb	4J71	4N4N614	4000EE1	42EJ4S0	464S601	6MIE	dDw
I dsCocmb	4J72	14J6NS	14- NN-	14- 421	144- 2N	SMM-	dDw
I r P Ocmb	N271	E6	NJ	14S	1S0	20M-	dDw
I r P Ocmb	0072	16-	1J-	1J0	1JN	- M-	dDw
I r P Ocmb	0N72	E0	E4	NN	E-	4NE-	dDw
I dPdnC	2N71	12021NJ-	12E20E- 4	1- 12E6S2	12E2646-	1MIN	dDw
I dPr p	1S071	0SN	1S2J	0E2	N42	1EMS	dDw
I dPr p	1SE71	0JS	02J	02J	0- -	1NE0	dDw
I nocmb	2- 72	- 20S4	- 2- 4J	- - 6- 1	- 2NE-	2NS2	dDw
I TpnCTcmb	N671	16J66E	16N2- N	16J664	166J24	SMIE	dDw
I TpnCTcmb	NN71	1J2JS6-	1J44NS1	1J14SE2	1J20ENJ	1NS2	dDw
I mPmp	- 471	206N60	201S- J	26JS4N	20SEN-	2MIN	dDw
Ar pecmb	1JE71	1S66J46-	1S4N- 44E	E- 2SN6N	1S1J6JE-	0MIN	dDw
Ar pecmb	1JE72	41J6- 66	41S2S06	- E0EJE2	4S0E- 4J	2M12	dDw
AGsPbmb	2S- 71	1610	10SS	1060	16EJ	4M44	dDw
AGsPbmb	2SJ71	4SSE	- N06	- N06	- E2S	1NE6	dDw
AdC	11N71	0N6E	NJ2N	N011	N- 6E	JM2E	dDw
AdSOcmb	4071	11SSE0	1126E1	11- 11-	111E60	1M46	dDw
RpsOcmb	2- N71	- 40N2	- J6- 4	- 464N	- JS21	1M-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440710	tOwTpmb Or Tu sb r :	8 N
5 Rr CTI sb DP t&:	9 y SU4J	&dPnTcnC UsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 16:- J:14	&sTsUdP u sb r :	SN1q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	J172	- N104	- 0J42	- 0422	- 001-	1N30	dDw
YTTr pe omb	10271	1N46-	1E24N	1E2EN	1ESS-	2M46	dDw
YTTr pe omb	10272	ES2S	N6- 1	N4- 6	N6E6	- M42	dDw
YTTr pe omb	10671	1- 24E	1- JE1	1- 104	1- - - N	1M60	dDw
YTTr pe omb	10672	160- E	16466	16NJJ	166N0	1M2S	dDw
YTTpomb	NE71	14J6S2N1	1426E- - 2	12EN2- S4	1- E- 0- S6	6N3-	dDw
YTTpomb	NE72	1410- J1	1- 0J46-	1- 2J11S	1- 02641	- M16	dDw
ZdCd	6672	2- 2JE	22N22	2- 2SE	2- SE0	1N34	dDw
ZqpdnComb	ES71	140JN	1J410	1J2JE	1J14J	2M20	dDw
ZqpdnComb	E171	- 426	- - 42	- 10J	- - 14	- NM4	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 44071	Dnw&umne&Nsme:J	8
RFen&psmI Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
cRmAAm	2072	44y S2	4h- hS4	4h4661	4h26hh	SUh6	ql w
cn&AmonE	12171	2y 4	2 10	2 42	2 1	- U12	ql w
crwenAq	0h72	21S4	21h-	2212	21h0	2Uh1	ql w
BsrAm	1- h71	2- 1h 4	2- hhSh	22 214	2- 106	1Uh0	ql w
BsrAm	1- 071	412- h2	4ShSh-	4Sh04-	4S0016	SUyy	ql w
BerEHAm	y71	12 y	1- S2	12- 2	1204	2Uy1	ql w
BAmu&G	2Sy71	01 1S22	6y241 6	0S46 4	0ShS6 6	1U 2	ql w
BAmu&G	2Sy72	- - 41hy-	- S0 h2h	20 y0h-	- S6yyh0	Uyy	ql w
BromAne	171	60S2	0- 20	0S- h	0S21	4U46	ql w
RsOmAm	1S 71	2h	21-	10h	21h	1yUy	ql w
RsOmAm	1S671	4- 60	4S 4	4Sy2	41 1	- U6	ql w
RsOmAm	11171	2yy	2 h2	- 112	2y 0	4U0	ql w
RsRqAm	4- 71	h- h42	h- yy02	h- h S2	h- 0S60	SU40	ql w
RsRqAm	4471	yS- 010-	y 1 - h	yS21- hS	yS1- 4h2	SU2	ql w
Rsrbon	1271	61y - 6y	6- hh0h1	646661-	6- 4S24h	2U1-	ql w
Rsrbon	1272	0000-	00- 4h	0 142	000h-	SUh1	ql w
RGRorAne	- h71	2- - 02- S6	26hy2- 2h	2ySh6- 4	26- 4S- 26	1SU2	ql w
RGRorAne	- h72	21- 12	210y10	21 4- y	21602-	1U10	ql w
RGromAm	h272	- 21Sy	- 2644	- - 1 y	- 2640	1U6h	ql w
RobsR&	hy72	2y2- 0	2y0y1	2y64	2yhh	SUy0	ql w
RoI I er	6- 72	60y-	66 6S	66 S	60226	SUy2	ql w
t EwI rowAm	1h671	- 41h-	- h2 1	- - 6S	- 44- 1	2U1	ql w
t EwI rowAm	1h672	14h-	142 1	146h	144y2	1U-	ql w
. rbAm	16471	2y - 4	2y660	2 4 y	2y- - S	2UhS	ql w
. rbAm	16472	1110h	11h- h	1166h	114h	2U22	ql w
HsOoRnAm	16S71	- 24yy	- 1 - y	- 210-	- 210S	1US-	ql w
HsOoRnAm	16S72	1h2Sh	1hS6y	1h2 6	1h1 0	SU02	ql w
9 oRnAm	16h71	1S1y64S0	y 6h0 S	1SS111- 4	1SS2444S	1U6h	ql w
9 oRnAm	16h72	4SySyS0	- y h- 42	- h- 664	- 0Sy66	0U6S	ql w
DnOAm	11h71	0261426	02y- ySy	02ShSy0	02h- 400	SU62	ql w
DnOAm	11h72	y4h 40	yh1- 0	S4222	10- h	U14	ql w
Don	h472	2Sy- 04	214 2 6	2Sy- 6- 6	2111 yS	1U4y	ql w
Don	h672	- 01hy01-	- 0- 61y4S	- yS00S6y	- 0 66241	2U0	ql w
Don	h072	S61	y1241-	ySh- 4	yS1y41	1Uy	ql w
KrEI &on	- 71	204	- SS	20S	2 1	hU1	ql w
LesO	2S671	1yhh2	1y4- 00	1y4- 06	1y406S	SU4	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RAen&psml Re:D :J	5 9 SF46	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S071	16111-	161404	16S61	161S6y	SU20	ql w
LesO	2S 71	061y0y	0h40- h	04 y6-	0hh226	SU 6	ql w
LA&GAum	671	2h00y01	2h 4 6	2h6hy2S	2h062h-	SU0	ql w
5 sgnewAum	2472	1h4yy66	1h266- 1	1h6- 1Sh	1h46h60	1U1y	ql w
5 sngsnewe	hh72	- 1yS4S	- 2264h	- 24y 0	- 22224	SUy-	ql w
5 oPEbOenum	y471	4h	y4h	6- 6	Sy	1U0y	ql w
5 oPEbOenum	yh71	h01S	h1y-	h- S1	h4S1	hUSh	ql w
5 oPEbOenum	y671	0S- h	0120	601S	6yh	- U1h	ql w
5 oPEbOenum	y071	- 142	- S42	- 1 4	- 12-	2U-	ql w
5 oPEbOenum	y 71	y112	y4 0	ySh-	y210	2Uhh	ql w
NeoOEmAum	1hS71	h4hy	h6164	hh h6	hhh- y	1U4y	ql w
NeoOEmAum	1hS72	1hy6S	16- S0	16- S-	161yS	1U2-	ql w
NAqkeP	6S72	2Sy 6	2S hh	2S- 4	2S0- S	1U62	ql w
8GowI Goruw	- 172	40 4	4 1	40- 4	400y	SU	ql w
8os&swwAum	- y72	- SS026	- S0 - 6	- S42 S	- S42 1	1U10	ql w
CGoOAum	1S- 71	02yhy26	0Sy- y61	0SyS2 S	016SSh6	1U64	ql w
CGoOAum	1S- 72	- 10hyh4	- S40 - 4	201y- 11	2y 1S- -	0UyS	ql w
pqsnOAum	4h71	40S- y02	4h 210y	40ShS- y	466- 0- S	1Uh1	ql w
pqsnOAum	4h72	141022	1- h1y2	11yh- y	1- 21h1	U6-	ql w
pe&enAum	271	116	11y	1Sy	11h	4Uh4	ql w
pe&enAum	0072	h0	S	h0	64	2SUyS	ql w
pe&enAum	0 72	6S	0-	06	0S	12U21	ql w
pAAqon	2 71	1- Sy14yh	1- S06y 6	12y6 620	1- S4h0S-	SUh1	ql w
pAPer	1S071	22y2	2hSy	22hy	2- h-	hU00	ql w
pAPer	1Sy71	22y2	2- 2h	24Sy	2- 42	2Uh0	ql w
poOAum	2- 72	460hy	401 6	4044h	401- S	SU0-	ql w
p&on&Aum	671	10Sh1	166142	16 S40	16 2- 6	1US	ql w
p&on&Aum	71	1h40216	1h60- Sh	1h261Sh	1h46 0h	1U-	ql w
pu&Pur	- 471	- SSS1S	- S- - 6	- Sh4h2	- S2y4y	SUy1	ql w
i erbAum	1hy71	1Sh1y-	1S1- - 6S1	1SSy1- h2	1S24 114	2US	ql w
i erbAum	1hy72	- y 6y46	- 6 0	- 40h6y4	- 00010-	0USy	ql w
i GsPAum	2S- 71	2S2h	22 4	212h	214h	6USS0	ql w
i GsPAum	2Sh71	4yhy	4 h1	hSS1	4y- 0	1Uh0	ql w
i An	11 71	44S1	44- 4	4126	4- 2S	- Uy2	ql w
i A&snAum	4071	60- 0h	6 Sy6	6hh42	60SS4	1Uy0	ql w
MrsnAum	2- 71	4 260	4y2hh	hSyh-	4y4y2	2U04	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb:psml Re:D :J	3 - 44071	Dw&umne&Nsme:J	8
RFen&psml Re:D :J	5 9 SF46	t Ra&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- 7S0712:16J- J14	t s&sFAe:Nsme:J	S 2c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h172	h226y	h241y	h100S	h21h2	SU6h	ql w
Y&erbAum	10271	4h	hyh	h61	660	1U0y	ql w
Y&erbAum	10272	- 010	4Sh6	4- 2-	4S- 2	0Uh-	ql w
Y&erbAum	10671	6y44	6yh2	0S- h	6y00	SU0-	ql w
Y&erbAum	10672	1- 46-	12 6	12S61	120y0	hUhS	ql w
Y&&Aum	y71	1- - 6 4- 1	1- 61 146	1- - - h- 2-	1- 44S6- -	1U1h	ql w
Y&&Aum	y72	12 2Sy	12- 1yy	1Sy6- 4S	12Shh16	U1	ql w
ZAnq	6672	h116h	h1 -	h1102	h1- y2	SU0h	ql w
ZAqonAum	yS71	140hS	1h6- 4	14h16	14y60	- Uy4	ql w
ZAqonAum	y171	- 406	- 426	- SSy	- - S-	0U06	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
d8be qFqpe	20:2	2S7u070	1yu077y	1y 76S6	1yy y04	U1S	Qt l
dFiqe . Fh	121:1	27y0066	26026S1	264S4 4	26 6y 4	1U42	Qt l
dll pFqO	07:2	6771u	64627	62676	64260	2U2u	Qt l
Bwlqpe	1 7:1	2uu2646	2y62600	2yy1u26	2y47016	1Uy2	Qt l
Bwlqpe	1 0:1	7S 0u70	7106266	7Sy760	71S 266	1U 6	Qt l
Bplh8qpe	y:1	6S7 2y	62112y	61y116	6171y1	1U4S	Qt l
Bqle biE	2Sy:1	61 6606	62yu1	6 216S6	62721 u	1U61	Qt l
Bqle biE	2Sy:2	2ySy600	2u7u27S	2u10460	2u610yu	1U61	Qt l
Bl. e qFp	u1:1	4S 4	4S60	y 4	4S12	1U0	Qt l
3 wne qpe	1Su:1	7Suu1	72462	7 u06	724S6	2Uu6	Qt l
3 wne qpe	1S6:1	0427S	0474	0 u14	042S	SU4y	Qt l
3 wne qpe	111:1	61Sy27	6270 y	6210 S	61y467	1U24	Qt l
3 w8Qqpe	4 :1	007464	uS0746	uS0y67	0y6yy2	SU4y	Qt l
3 w8Qqpe	44:1	7uy404S2	6SS2002	612112u6	6SS621 0	1Uuy	Qt l
3 wlr . F	12:1	26 y716	20S 160	2uSy647	201044	U16	Qt l
3 wlr . F	12:2	0624	07u2	6014	0 S6	1U u	Qt l
3 E8 lqFp	7:1	16y 10	16ySu71	164 4y6	1607u4S	1U60	Qt l
3 E8 lqFp	7:2	1116	1S421	yu74	1S40y	6U20	Qt l
3 El. e qpe	72:2	0S6S12	6y076S	602174	6y1ySy	2U77	Qt l
3 . r w8	7y:2	1262Su4	124u10u	12S02uy	12 y1u4	2U S	Qt l
3 . t t pl	6 :2	1S074124	1S00SySy	1S7 S676	1S6u722y	1U26	Qt l
Thl t l. lqpe	176:1	027	07S	67u	011	6U66	Qt l
Thl t l. lqpe	176:2	2	SS	20	10	4U7y	Qt l
Glr qpe	164:1	2SS	17u	1u	1u1	11U62	Qt l
Glr qpe	164:2	6	1SS	0S	0u	27U1	Qt l
Hwn. 8qFqpe	16S:1	u	0y2	042	0uy	7Uu2	Qt l
Hwn. 8qFqpe	16S:2	44	4 0	400	472	4U04	Qt l
K. 8e qpe	167:1	uy2S02u	y 621y0	y2u4746	y1uy170	2U76	Qt l
K. 8e qpe	167:2	y44224	y 0S2S	u6y7S0	y16y10	1US7	Qt l
8Fnqpe	117:1	6 y4u	67y6y72	6 71406	642y S4	2U26	Qt l
8Fnqpe	117:2	u70 60	u62uyS	u S uS	u7S212	2US7	Qt l
8. F	74:2	u266S0u	u1uy410	0y1y24S	u124y12	2U24	Qt l
8. F	76:2	17SSyy27	1712SS126	144u6y 64	14u022y14	2U20	Qt l
8. F	70:2	ySSu2S	u774S4	74u6u0	06u S4	7USu	Qt l
glht i. F	u :1	21y	27y	240	242	uU7	Qt l
Lpwn	2S6:1	124Su6 6	12772064	1201u712	1277yy01	1U2	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqjl
Lpwn	2S0:1	1Su 04 y	1Syu144S	11126Suy	1Syu1676	1U 1	Ol
Lpwn	2Su:1	4yy2y 21	71 06046	7100 6 6	71S26760	1UyS	Ol
LqiEdpe	6:1	2 S2y76	22uu70u	2 17u2S	2 S2471	SU7y	Ol
5 wkFpl dpe	24:2	2u 767u0	2uS2yS11	202 1S04	20u02224	2USu	Ol
5 wFkwFpl p	77:2	uS4762	0u7671	6y u6S	061 7u	1U70	Ol
5 . 8hr npFbe	y4:1	y72 77u	y6yS26y	y76u06u	y7y41yu	SUyS	Ol
5 . 8hr npFbe	y7:1	1 u4112S	141u1721	1422 17S	14Su1y S	1U4y	Ol
5 . 8hr npFbe	y6:1	14y441y7	17027614	17767uy6	17411yS1	2U6u	Ol
5 . 8hr npFbe	y0:1	u7u4210	uu61 uy	u040702	u0 1S7y	1U6S	Ol
5 . 8hr npFbe	yu:1	227S10u2	2 S2Su46	22u02S 4	220yu221	1U10	Ol
mp. nhe dpe	17S:1	220	2S	20	20	10US0	Ol
mp. nhe dpe	17S:2	7S	S	7	44	2uUy	Ol
mqOvp8	6S:2	u440	y12u	S122	7uyy	1U4y	Ol
NE. l t E. lbl	1:2	1y6S7	1yS1	1uu46	1y177	2USu	Ol
N. iwl l dpe	y:2	u66772u	u02u167	u 6 26y	u7u7674	2U20	Ol
9 E. ndpe	1S :1	612S 17	610u7Su	621027u	6102S20	SU0y	Ol
9 E. ndpe	1S :2	2u16y74	2uSy77S	20 S477	20u767	1U02	Ol
DOwFndpe	47:1	4SS0066	4S0y 2y	416y1 0	4Su7411	1Uyu	Ol
DOwFndpe	47:2	1 1441	1 1 07	12uS12	1 S206	1U71	Ol
Dp8pFdpe	u2:1	44yS	467SS	466S0	46SS	2USu	Ol
Dp8pFdpe	00:2	1 7	1 7S	1 70	1 7	SU27	Ol
Dp8pFdpe	0u:2	4600	44y2	44S6	4727	US6	Ol
Dqq8Q F	2u:1	207SSyS4	200u 4u	2uS0y7u	200u0y47	1US4	Ol
Dq8pl	1S0:1	77447	77S 1	427201	0u7u2	1U2S	Ol
Dq8pl	1Sy:1	10 u17	1y6464	266026	212 7	1U71	Ol
D. ndpe	2 :2	7SuSy2y0	4y6u0721	4u42y 7	4y642S71	2U4S	Ol
Dil. Fidpe	u6:1	1uy64744	1y1740 2	1y41Syu	1y10607	1U10	Ol
Dil. Fidpe	uu:1	16 202y4y	166774u62	16 4yu116	164441y06	1U11	Ol
Db8Vl	4:1	74u 76	742y6y	744 47	74722	SU71	Ol
cplr dpe	17y:1	y2u7 1S	y7uSS7	y6y74 S	y72S264	2U22	Ol
cplr dpe	17y:2	ySS S2	u64S0u	60 6 0	u12602	U1y	Ol
cEw8pe	2S :1	S 1410	S26yuy	S276S	S2uSS	SU1S	Ol
cEw8pe	2S7:1	01414 S	01 67S6	0264740	01uSu2u	1US1	Ol
cqF	11u:1	2S0u6 0	224u471	21u 02y	210S20	Uy7	Ol
cqwFdpe	40:1	60yS04	07u1y0	007026	0 0667	1UUu	Ol
RlwFdpe	2 u:1	1S60 1y7	1Sy 70u6	11 677S0	1Syy14y6	U1u	Ol

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	Ct plwi. lJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 3 - S27	8Fl ilbe FpiJmwe pJa	Nu
3 8pFiJDwe t 8pJ8TJaJ	3 3 - S27	Tq8piq FJMwO. lJa	1
TwipJAJcqe pJdOobdpnJa	2S2 :S0:12J16a7Sa77	TwiwMq8pJmwe pJa	Su43 3 - Uh

Nwlwe pipl	5 wl l	3 ND1	3 ND2	3 ND	3 ND5 pwF	3 ND9 DT	RFqil
- wFwndpe	71:2	740070	74 S7y	720217	7 y 44	2U8SS	Qt l
Yiiplr dpe	102:1	1y2	2SS	210	2S	6U2u	Qt l
Yiiplr dpe	102:2	110	0u	1SS	yu	1yUuu	Qt l
Yiiplr dpe	106:1	14216	1 uy1	14S41	14S7S	1U16	Qt l
Yiiplr dpe	106:2	17001	17u67	17001	17uS2	SU 7	Qt l
Yiildpe	uy:1	11u SS7y	12S6 S64	1160204	11u772uy	1U66	Qt l
Yiildpe	uy:2	1160u10	1162077	11420u6	11700u6	1U14	Qt l
ZqFO	66:2	1272u14	12 1u71	12S4y S	122yu67	1Uy7	Qt l
ZqQ Fdpe	yS:1	4442u07	46u01 0	4701666	4760226	2U6u	Qt l
ZqQ Fdpe	y1:1	y6 uu7	yy 7S0	yu0yyu	yu10y0	1U6S	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8 spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
qPmb c omb	20 2	101	10y	16S	10S	-U--	dDw
q. Tb C. h	121 1	1SN7	11-N	17y2	1211	17U2N	dDw
qpwr . cd	0- 2	4	-	4	4	17U72	dDw
Bspomb	17- 1	22-	2SN	210	210	7UN-	dDw
Bspomb	170 1	742	4SS	-2-	422	22U1N	dDw
Br phPmb	y 1	12y	11S	122	12S	0Uy7	dDw
Bcwb mTE	2Sy 1	6y17-1-	662SN1-	66yS27N	6041-27	2U20	dDw
Bcwb mTE	2Sy 2	71NNN2y	71NN10y	72N27NS	721y0y6	1U6N	dDw
BpCb c r	N1 1	76-y	4142	4S74	7y4-	6U47	dDw
3 sob omb	1SN 1	7N	N	17	1y	N1U14	dDw
3 sob omb	1S6 1	7--y	7426	7726	7470	7U41	dDw
3 sob omb	111 1	4-y	4N7	424	4--	6U S	dDw
3 sPdomb	47 1	--S	4y6	4-y	-S2	yU14	dDw
3 sPdomb	44 1	76N46	7-171	74414	7-464	7U2	dDw
3 speC.	12 1	274--44	277S6Sy	2714220	277S126	SU60	dDw
3 speC.	12 2	200S2	2006N	2NS1y	20N7S	SU6S	dDw
3 EPOpc r	7- 1	14142Ny	17-S100	17-1N4y	17021S-	2U66	dDw
3 EPOpc r	7- 2	N76y	NNN6	N761	N-7y	7U2	dDw
3 EpCb omb	-2 2	1S4S	11S7	1170	1Sy7	4U4y	dDw
3 CesPT	-y 2	1S7	-7	6S	02	70Uy	dDw
3 CDDr p	67 2	10-7	1077	1660	101N	2U64	dDw
&hwDpOwomb	1-6 1	N	S	S	7	107U21	dDw
&hwDpOwomb	1-6 2	S	S	7	1	107U21	dDw
Fpeomb	164 1	60	77	-S	-S	77U74	dDw
Fpeomb	164 2	10	10	10	10	SUSS	dDw
GsoCPe omb	16S 1	N7	1SN	N7	y2	1-U04	dDw
GsoCPe omb	16S 2	1S0	110	y7	1S6	11USy	dDw
HCPb omb	16- 1	yN72-10	y21y--0	y4707NN	y4y64N0	7U20	dDw
HCPb omb	16- 2	4S000y2	4SyN4S0	41S1476	4Sy2-4-	SU71	dDw
t. oomb	11- 1	0S41SNS	6NS4260	6NSySN4	6NN4N1S	1Uy0	dDw
t. oomb	11- 2	y2011-	y7-4N2	y7Sy12	y7110S	SU4-	dDw
tpC.	-4 2	60N	-44	044	6-6	1-U7	dDw
tpC.	-6 2	N-0-	02-2	00y1	0N07	NU4-	dDw
tpC.	-0 2	7S6	261	2-S	202	1SUNS	dDw
KphDTC.	N7 1	2-2	2S2	2--	270	12U1	dDw
Lr so	2S6 1	1N11	1N74	164-	1067	-UN6	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tusb r:J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdPP:usb r:J	SN-3 3 BFUb

8spsb r Tp	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Lr so	2S0 1	10-6	1-02	1611	1646	-UN0	dDw
Lr so	2SN 1	N10y	0462	01yS	061S	6U01	dDw
LdEomb	6 1	2-147yS	276N2-y	27y672-	2426724	7U2S	dDw
5 sg. r womb	24 2	ySN	Ny2	y0-	y2-	4U06	dDw
5 s. gs. r wr	- - 2	2S7	1yS	21S	2S1	-US6	dDw
5 OPheor . mb	y4 1	1777	122-	112-	122N	NU4y	dDw
5 OPheor . mb	y- 1	1y-S	1010	1-SS	1022	17US0	dDw
5 OPheor . mb	y6 1	222-	1y74	100-	1y0N	11U-4	dDw
5 OPheor . mb	y0 1	122-	1Sy2	y-N	1Sy2	12U21	dDw
5 OPheor . mb	yN 1	7726	2610	2474	20y2	16UN0	dDw
u r Cohb omb	1-S 1	17	17	17	17	SUSS	dDw
u r Cohb omb	1-S 2	7	S	7	2	N6U6S	dDw
u odkr P	6S 2	6S	-7	y0	0S	77U74	dDw
8 EOwDEOpmw	71 2	1N7	142	1-N	161	17US2	dDw
8 CTswwomb	7y 2	114S-	111S-	12S40	11-1y	4U1N	dDw
9 EOomb	1S7 1	0S70S-S	6676yN0	664y22-	6004421	7U76	dDw
9 EOomb	1S7 2	72NN0y-	7S04N27	71421S7	716N-04	7U4-	dDw
I ds. oomb	4- 1	4-1y66N	41N-127	4716446	474S412	7UNN	dDw
I ds. oomb	4- 2	17-N-2	1706-6	17NSN7	1701y0	SUN6	dDw
I r PP. omb	N2 1	4	24	7	6	266U26	dDw
I r PP. omb	00 2	S	S	7	1	107U21	dDw
I r PP. omb	0N 2	11	0	y	y	22U22	dDw
I dPdC.	2N 1	1y7101	1N76S6	1N2y04	1N6-N4	7US6	dDw
I dPr p	1S0 1	70-	7y2	7SN	7-N	12U71	dDw
I dPr p	1Sy 1	742	242	2-N	2N1	1yU1S	dDw
I Coomb	27 2	7704S	72021	777N1	772NS	1U-	dDw
I TpC. Tomb	N6 1	2SN4	1NSy	1-10	1NS7	1-U02	dDw
I TpC. Tomb	NN 1	14S-4	11SSy	11216	12Sy7	14US0	dDw
I mPmp	74 1	2NyN-6	2N1y-6	2N4710	2N-706	1U42	dDw
Ar peomb	1-y 1	yN26746	y-S7y-1	y4S722-	y-00N41	2U71	dDw
Ar peomb	1-y 2	7y6y-y2	7yS1724	4S2S741	7y670-2	1U1	dDw
AEs PPomb	2S7 1	1742	1242	112-	1276	NU00	dDw
AEs PPomb	2S- 1	7210	7S2-	2ySy	7S-S	-U1S	dDw
Ac	11N 1	1242	1277	1S-S	110-	yU22	dDw
AdS. omb	40 1	4-S	410	-SS	4-6	yU21	dDw
Rps. omb	27N 1	N0-	042	4y2	0S7	20U6y	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	n Dr psTCpJ	aswl sP
Lse:I sb DPP:t&:J	3 3 BS2-	t. wTpmb . r Tu sb r :J	8 N
3 Pr . TI sb DPP:t&:J	3 3 BS2-	&dPmTC. :MsdTCpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S27 S0 12:16J-4J11	&sTsMdP:u sb r :J	SN-3 3 BFlb

8spsb r Tr p	5 sww	3 8 I 1	3 8 I 2	3 8 I 7	3 8 I 5 r s.	3 8 I 9 I &	R. dTw
Vs. sodmb	- 1 2	27	2S	20	27	14U2y	dDw
YTTr pedmb	102 1	- S	2-	60	40	44U41	dDw
YTTr pedmb	102 2	11	11	22	1-	47U7S	dDw
YTTr pedmb	106 1	11SS	1177	1177	1122	1U01	dDw
YTTr pedmb	106 2	1S666	1S67N	1SN20	1S01S	SUy-	dDw
YTTpdmb	Ny 1	126SNyNy	12SNS646	1227S041	127S60y2	2U21	dDw
YTTpdmb	Ny 2	122yNS-	122- 2- 2	122NS41	12206yy	SU1y	dDw
Zc d	66 2	1- S	1yS	210	1N6	1NUSN	dDw
ZqpdC. dmb	yS 1	y77	62-	N- S	NS7	1yUN0	dDw
ZqpdC. dmb	y1 1	1- N	1SN	1- N	142	2SU7N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwCICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	TwiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	aa12a6	aa- a1	a4041S	aaS02u	SRa6	Qt I
d. iqe C. E	12171	- 1- 4	- 4S	- 1S	- 210	aR1u	Qt I
dIl p. qO	0a72	- SS4	2 ua	- S12	- SSS	SR46	Qt I
Bwldpe	1- a71	- 122aS	- 14- 64	- 21- a2	- 1a u	1Ra1	Qt I
Bwldpe	1- 071	aa0- 16	aa 4- 6	a64aau	a6S4- 6	SR66	Qt I
BplE8dpe	71	1664	16SS	16S2	1622	2R2-	Qt I
Bdqe biG	2S 71	6044u6a	6uSSu	6u2aa64	60 S44-	SR61	Qt I
Bdqe biG	2S 72	- 102 42	- 20- 6u0	- 2- - a1a	- 22601a	1Ra0	Qt I
BIOe q p	u171	0661	0 11	0400	06u-	2Ru-	Qt I
9 wne dpe	1Su71	201	10	22	226	2SR20	Qt I
9 wne dpe	1S671	4S06	41S	4S06	4Su0	SR40	Qt I
9 wne dpe	11171	2u00	2 - 6	2 a2	2 21	1R a	Qt I
9 w8Qdpe	4- 71	u00 16	u0062S	u6ua0	u040Sa	SR61	Qt I
9 w8Qdpe	4471	14611a6	14 S66- 2	14u0- 266	140 01aa	1RS	Qt I
9 wIr C.	1271	- a2- 42u	- 6- a6Su	- 010- 04	- 62a40S	2R6	Qt I
9 wIr C.	1272	4aSa-	4a- 2S	4aa21	4a2 u	SRa2	Qt I
9 G8Clq p	- a71	1S022116	1- u26- 46	162uu20u	1- 612240	2SR4	Qt I
9 G8Clq p	- a72	1442-	14 S02	1aaS1a	14 442	- R61	Qt I
9 GIOe dpe	a272	- 4a	- 41u1	- 4201	- 4- aS	SR64	Qt I
9 Or w8	a 72	- u6 -	- u - -	- Sa0	- uu 4	SR4u	Qt I
9 Ot t pI	6- 72	024a4	01 41	0112S	01u- u	SR 4	Qt I
TEI t IOI dpe	1a671	412- 1	41- 6a	41- 4S	41- 12	SR10	Qt I
TEI t IOI dpe	1a672	10022	10u22	10- 41	1062u	1R44	Qt I
UIr dpe	16471	- a140	- 4Sa-	- 41S-	- 44- 4	1R0	Qt I
UIr dpe	16472	1- 6S0	14- 14	1- 1	1- 01	2Ra-	Qt I
HwnC8q dpe	16S71	- u- - 1	- u004	- u2- 1	- u44a	SR0a	Qt I
HwnC8q dpe	16S72	10a12	10002	1u1a	10u14	1Ru-	Qt I
h C8e dpe	16a71	6 2u1	- 101S	61- uS	04u- 24	1R6	Qt I
h C8e dpe	16a72	416aS1a	41a 201	414S062	41aaS16	SR 1	Qt I
& ndpe	11a71	606S- SS	6 S6S0S	6u2004S	6u- 1- 0S	1RS0	Qt I
& ndpe	11a72	4S a	4S 26	aa 00	4a 66	SR 2	Qt I
&C.	a472	2aS2S01	24aaaua	2446 Su	246u1uu	1R2S	Qt I
&C.	a672	46S- 60a1	4- 1402	444aS6Su	44u26200	2R	Qt I
&C.	a072	1S04110	1Sa11 1	1Sa 0S	1S61602	1RS	Qt I
KIEt iC.	u- 71	2a4	- 11	2ua	2u-	1SR16	Qt I
Lpwn	2S671	2266a-	222u- 6	22- 0a4	224414	SRu	Qt I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& I iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T8piqC. :MwOICI:J	1
Twip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	TwiwMt8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	1u- 6a	1u- 12-	1u6S 6	1u4- a	SR0u-	OI I
Lpwn	2Su71	u6 1Su	u62- 40	u04a 1	u6u6u2	SR01	OI I
LqiGdpe	671	2aa2012	2a22 14	24- 24u	2aS4 au	2R a	OI I
y wg. pl dpe	2472	1aa- a66	1au 1u6	1aa2400	1a6aS06	1R -	OI I
y w. gw. pl p	aa72	- - u1S	- u 001	- S0aS	- 1444	SRa4	OI I
y C8Er np. be	471	1S601	1S- 01	1S6S4	1Sa4	1R4	OI I
y C8Er np. be	a71	u011	0 4	uS2u	u244	4R 1	OI I
y C8Er np. be	671	1S- 6-	u0	10S	uS4	6R12	OI I
y C8Er np. be	071	a- 1S	a226	4ua1	a12	4R06	OI I
y C8Er np. be	u71	144aS	1- 21a	1204u	1- 401	6Ra-	OI I
mpOnEe dpe	1aS71	64aa6	6a4	6aS10	6aS24	SR0-	OI I
mpOnEe dpe	1aS72	1 601	2S- 46	2SS62	2SS26	1R6	OI I
mqOkp8	6S72	26S60	2a0aS	261- 0	2a ua	SR0	OI I
NGOI t GOIbI	- 172	2 2	2 SS	2 SS	2 - 1	1Ru1	OI I
NOiwI dpe	- 72	240- 40	24642a	2462- 1	24666u	SR24	OI I
F GOndpe	1S- 71	66011ua	6u6u- au	60- 01u-	60au Su	1R4u	OI I
F GOndpe	1S- 72	- Su a6S	- 1u06u1	- 210 Su	- 16aSaS	2R12	OI I
DOw. ndpe	4a71	444a0Sa	4a1u00S	446- ua2	44061S	SRua	OI I
DOw. ndpe	4a72	1446- u	14142u	14- 261	14- 1S	1R1-	OI I
Dp8p. dpe	u271	1a0	6	124	126	24Ru	OI I
Dp8p. dpe	0072	1S0	uS	S	2	14R61	OI I
Dp8p. dpe	0u72	64	0u	6	0S	1SR8	OI I
Dq8qC.	2u71	1- 6 4a-	1- a404a6	1- a2u01-	1- a 1u04	SR6	OI I
Dq8vpI	1S071	2 60	2uS	2u10	2u64	- R11	OI I
Dq8vpI	1S 71	26- 4	2610	202a	26a	2R1	OI I
DOndpe	2- 72	0 2a0	0 - aS	0611a	0u24S	2R a	OI I
DiIC. idpe	u671	2aS016	2a1062	2a1 10	2a146a	SR26	OI I
DiIC. idpe	uu71	226S4 1	22 a000	22 - 41S	22u- 226	SRu6	OI I
Db8bI	- 471	2 4 20	2 026-	2 - 2S	2 a1- -	SR6	OI I
cpIr dpe	1a 71	6ua00	1SS2 14S	00u- u6	2a- 6u	1R 2	OI I
cpIr dpe	1a 72	4S4u1- -	4S1- 6 u	4S6006	4S4- 2SS	SR6u	OI I
cGw8dpe	2S- 71	- a42	- aS1	- 4S	- 4u4	1R 6	OI I
cGw8dpe	2Sa71	Sa-	u - 0	u64a	uu0u	2R 0	OI I
cq	11u71	46S	4026	4aS1	4612	2R44	OI I
cqiw. dpe	4071	44 1-	46S 1	4a- 4S	4a44u	1R 1	OI I
5 Iw. dpe	2- u71	a64S	aa- 46	aa- 1-	aa6u	1R12	OI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pIwiCI:J	swI Pw8
Lwr :Dwe t 8p:&T :J	3 - 44071	& l iIbe . pi:mwe p:J	Nu
9 8p. i:Dwe t 8p:&T :J	y h SM40	T 8piqC. :MwCICI:J	1
T wip:A:cqe p:d Qobdpn:J	2S2- 7S0712:16Ja0J1-	T wiwMd8p:mwe p:J	Su6d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Vw. wndpe	a172	64a14	6a- 12	6- - S	644Sa	1RaS	CI I
Yiiplr dpe	10271	u0	- 0	62S	u4u	2RS2	CI I
Yiiplr dpe	10272	a22-	46S6	46a6	4u2	0R1S	CI I
Yiiplr dpe	10671	066	0044	0S 4	0aS2	4R04	CI I
Yiiplr dpe	10672	142Su	14141	144uS	14206	1R26	CI I
Yiildpe	u 71	126uau14	12 ua61S	1- 24SuS2	12 0S042	2R14	CI I
Yiildpe	u 72	12 26u4	1- u62uS	1- S- 20-	1- 20412	- Ru6	CI I
Zq O	6672	4a 2u	4a00S	4a2- a	4a644	SRuS	CI I
ZdqOC. dpe	S71	1a2a	1020u	16600	164S4	6R 2	CI I
ZdqOC. dpe	171	- 210	- 6u4	- a42	- 4u1	6Ruu	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	3 l era&or :	Jaswal
Lab pamI le D :	3 - 44072S	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	60S- - y	601806	6616h2	660h68	SU32	ql s
c n&AmonE	12171	6y68	606h	6- h-	6y00	2U3y	ql s
c rsenAq	0y72	y62S	yy8-	y614	y6Sy	SU-y	ql s
BarAum	1- y71	y8h04y	yhyy1-	yh841S	yh4yy6	SU04	ql s
BarAum	1- 071	1SySy22	1S4h140	1Sy- 004	1Sy1148	SU2-	ql s
BerEllAum	h71	2hS6	28yS	200h	284y	2U2y	ql s
BAsmu&G	2Sh71	0S84680	01y4y- h	68y2001	0S- S66y	2U2y	ql s
BAsmu&G	2Sh72	- 2hh640	- 206hSS	- 2- 64h2	- 201S1-	SUh8	ql s
BromAne	8171	6hh4	0- y2	8S61	046h	0U20	ql s
RaOmAum	1S871	4y4	- - -	- 0h	- 8h	1yU6h	ql s
RaOmAum	1S671	4484	4- S1	4484	442-	2U-h	ql s
RaOmAum	11171	42y2	4668	4yyy	44h2	4U0h	ql s
RalqAum	4- 71	8S6S- -	82yh21	821yh0	8108yS	1U28	ql s
RalqAum	4471	1- 8SS2h2	14S- yS68	1- 8- yh86	1- 8hS44h	SUh1	ql s
Rarbon	1271	0S868y2	04y- 2h-	0y- 0h- S	0- yh- y8	- U26	ql s
Rarbon	1272	hS8- h	hSy- 0	hS- 8y	hSy80	SU2y	ql s
RGlorAne	- y71	18S111h0	21h04- S0	241- 824-	21- 04y82	14Uy4	ql s
RGlorAne	- y72	18y4h4	1h1y0-	1hy0hy	1hShy4	2U01	ql s
RGromAum	y272	4068h	48Sy4	466- 2	404y8	1Uy6	ql s
Robal&	yh72	- h0hh	4S- h4	4SS1S	4SS60	SU0y	ql s
RolI er	6- 72	1y004h	1y8S1y	1y4- 1h	1y66hy	1U-2	ql s
t EsI rosAum	1y671	648- 4	6y60S	64- 64	64hy6	1US2	ql s
t EsI rosAum	1y672	26h40	26h11	26S6h	26642	1U36	ql s
. rbAum	16471	yS1S-	y1861	y1S4h	y1SS4	1U02	ql s
. rbAum	16472	2S06-	2S4S2	2SS8y	2S410	1U66	ql s
HaOolAnAum	16S71	y6yh6	y6h8h	y6S6h	y6yy1	SU32	ql s
HaOolAnAum	16S72	266- 0	20- 41	2641-	260h0	1U31	ql s
9 olmAum	16y71	1S1S41hy	hhh1- 20	h82- h0h	hh0- 160	1U41	ql s
9 olmAum	16y72	42y8y18	42422S8	41- 0y2h	42120y2	1Uy6	ql s
DnOAum	11y71	0268101	01y8280	0116S42	018S8- 4	1USh	ql s
DnOAum	11y72	hy44hy	h4- h8S	h466- 6	h48- 0S	SUy8	ql s
Don	y472	24- - 1hS	24066y1	242h006	2446y- h	1US0	ql s
Don	y672	44S2h112	4- y4- - 88	4- 4840h-	4- 68y064	SU68	ql s
Don	y072	1S4yS4h	1S4yh1h	1S4h8S1	1S46h2-	SU24	ql s
KrEl &on	8- 71	- - y	- yS	2hh	- 28	8US-	ql s
LeaO	2S671	22y2066	221yS- -	21hhS68	222228h	1U24	ql s

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RIAen&pamI le D :	5 9 SF48	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	180yh21	1824- 1-	10h2h06	18- 1S0S	2U2h	ql s
LeaO	2S871	80S02- 8	86- - h10	8yS48h-	861y- 4h	1U1h	ql s
LA&GAum	671	2y168y2	2y0y41y	2y4hSS8	2y40Sh1	1U1y	ql s
5 agnesAum	2472	11- 068S	114- 1- 0	11y6- - 4	114y010	SU34	ql s
5 anganese	yy72	h46048	hyyhS0	h44- 86	h4hS14	SU64	ql s
5 olEbOenum	h471	1606h	10hhy	1826-	10606	4Uy1	ql s
5 olEbOenum	hy71	0y6h	0h86	0- h4	06yS	- Uh8	ql s
5 olEbOenum	h671	11S- 8	1Sh1-	h6y4	1Sy- y	0U20	ql s
5 olEbOenum	h071	48Sh	484-	4hyh	480S	1U62	ql s
5 olEbOenum	h871	12yy6	12- h8	12y48	12ySS	SU01	ql s
NeoOEmAum	1yS71	1S6446	1Sh42h	1S8126	1S8SSS	1U-8	ql s
NeoOEmAum	1yS72	- 220h	- 261S	- 2h- S	- 26S6	1USS	ql s
NAqkel	6S72	22- S4	221h1	22444	22- 1-	SUy0	ql s
PGosI Gorus	- 172	110h0	11040	11- Sy	11616	2U-	ql s
Po&assAum	- h72	6h6- 8y	6h8040	0SyS16	0SSS4h	SU64	ql s
CGoOAum	1S- 71	0S2661S	02282- -	0S26182	0Sh- 60y	1U64	ql s
CGoOAum	1S- 72	- 210681	- 166040	- 102- 1-	- 18yy81	SU38	ql s
pqanOAum	4y71	468hyy8	4yyh- 02	46h- yy8	46404h6	1U64	ql s
pqanOAum	4y72	14- - h1	14- - S0	141S0y	142yh1	SUh2	ql s
pelenAum	8271	1- 2	h1	160	1- S	2hU20	ql s
pelenAum	0072	h-	h0	110	1S2	12U-y	ql s
pelenAum	0872	1SS	81	h4	h2	1SUyh	ql s
pAAqon	2871	144188y4	14484214	14y0- - 08	144h214h	SUy4	ql s
pAver	1S071	0686	0000	0844	006h	1USS2	ql s
pAver	1Sh71	6h6S	021h	686h	0S16	2Uyh	ql s
poOAum	2- 72	602h0	6y04h	641h1	6y046	2U-6	ql s
p&on&Aum	8671	yh112-	yh8222	yh- 2S4	yh418-	SU61	ql s
p&on&Aum	8871	y4S4h11	y- y6248	y264426	y- 41862	1U-4	ql s
pulfur	- 471	- 418yy	- 462h2	- 42112	- 4- 42S	SU0-	ql s
i erbAum	1yh71	1S24y- 6h	1S224yy-	hh- 2S00	1S1- 4SSS	1U0-	ql s
i erbAum	1yh72	4Sy428-	4Shh8yS	- h68- 14	4S4S816	1U6y	ql s
i GallAum	2S- 71	- S- 4	200y	20yS	28y-	yUyS	ql s
i GallAum	2Sy71	6468	688y	6hS2	60y2	- U64	ql s
i An	11871	- 0y08	- 0S- 4	- 6hS1	- 0101	SUh6	ql s
i A&anAum	4071	1yh- 02	16421-	162024	1621S-	1Uy-	ql s
MranAum	2- 871	y1S- 6	ySh- 6	y1- 8S	y1110	SU46	ql s

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t a&e T i Ame c qduAeO :	2S2- 7S0712 10:SS:12	t a&aFAe Name :	S80c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cp t	MnA&s
VanaOAum	y172	68h28	6844h	68h2y	68068	SU4S	ql s
Y&erbAum	10271	1y4yh	1yS84	1y- Sh	1y284	1U24	ql s
Y&erbAum	10272	0y0y	0- - y	062y	0y12	2US6	ql s
Y&erbAum	10671	11S88	11y- S	1S06-	11120	- U46	ql s
Y&erbAum	10672	16- Sy	161- 2	1y1y-	1y86-	- Uh1	ql s
Y&&Aum	8h71	1- yhh- 6-	1- 46h62h	1- 4S- yh4	1- 4hS862	SU04	ql s
Y&&Aum	8h72	14SyS11	1- 2- - 6y	1- 164- 1	1- 4826h	- U6y	ql s
ZAnq	6672	1616h1	1yh8S8	1yhy1y	16S- - 8	SU04	ql s
ZAqonAum	hS71	- - 00y	- 6166	- y- 80	- y1Sh	- U40	ql s
ZAqonAum	h171	82y-	81y-	006h	8Sy8	- U10	ql s

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Lab pamI le D :	3 - 440721	Dns&umne&Name :	P8
RlAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame cqduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
c lumAnAum	2072	hh- 02h	h48y6y	h42424	h48- 0-	1US-	ql s
c n&AmonE	12171	40h1	46S1	4y68	400-	- U36	ql s
c rsenAq	0h72	hS4h	hS4y	4y8y	hS28	SU60	ql s
BarAum	1- h71	4yyh44	4y202-	4yS4y6	4y42h4	SUyh	ql s
BarAum	1- 071	8hy81y	804422	8h- y1y	86202S	1U22	ql s
BerElAum	y71	2- 8h	2462	24y6	2448	2U-	ql s
BAsmu&G	2Sy71	6084y- 1	60h0Syy	0SS8006	68hS26y	2US1	ql s
BAsmu&G	2Sy72	- 204S62	- 2- 88y6	- 26000-	- 26S244	SUh8	ql s
BromAne	8171	081y	0844	81S-	0y22	1Uy8	ql s
RaOmAum	1S871	260	20h	20h	202	1U00	ql s
RaOmAum	1S671	4- S1	41hy	46hy	4- 0-	hU8y	ql s
RaOmAum	11171	- y- 6	- y86	414y	4S24	2U00	ql s
RalqAum	4- 71	- - 48yy	- - - - Sy	- - 4S64	- - 4Sy1	SU24	ql s
RalqAum	4471	h02S102	h606S46	h60- 46h	h68y8yh	SU46	ql s
Rarbon	1271	- 8y0- 28	- y- yyS-	4S86y46	- y04026	2UhS	ql s
Rarbon	1272	hS68S	481- 8	48- y0	4yS02	2U8h	ql s
RGlorAne	- h71	2S6SS11h	24h116- 6	264- 1821	2- 8408h0	12U46	ql s
RGlorAne	- h72	1y888h	2Sh24S	2S8S- S	2S4Sh2	2U S	ql s
RGromAum	h272	- Syh4	- 12- 4	- S22y	- S8Sh	1U68	ql s
Robal&	hy72	- yh1h	- yh4h	- y44h	- yhS1	SU1-	ql s
RoI I er	6- 72	12101S	11y11h	11yy18	12S240	1U1S	ql s
t EsI rosAum	1h671	h8486	h64S-	h0- 4y	h041-	1U82	ql s
t EsI rosAum	1h672	24- 22	2- 2yS	2206S	2- 4h0	- Uy	ql s
. rbAum	16471	40226	44606	4h61-	4h8- 8	2U81	ql s
. rbAum	16472	18h06	1826y	100Sh	18184	2U4-	ql s
HaOolAnAum	16S71	hS6Sh	h1124	h1S81	hSy- 0	SUh0	ql s
HaOolAnAum	16S72	2- 08h	2416y	2- 8S1	2- y18	SUy1	ql s
9 olmAum	16h71	y41y46-	y612S26	y8h248h	y620yy1	2U2h	ql s
9 olmAum	16h72	41yS- 00	42S6244	4142- 14	410y64h	SU8S	ql s
DnOAum	11h71	6y0S2yy	0S- 128S	0S46- 8y	0S1hy8y	SUh0	ql s
DnOAum	11h72	yh6482	yh11S4	y- hh8S	y40022	1U1h	ql s
Don	h472	2S6S- 8h	2Sh1- 6S	2S44hS8	2Sh2S8h	SUy	ql s
Don	h672	- 00- 2SS2	- 6828- 2-	- 6h0S6- 8	- 0S4- 6hh	1U6h	ql s
Don	h072	88S4y8	88- 8h6	86688S	800S08	1US2	ql s
KrEl &on	8- 71	- S6	- 42	- S1	- 10	0U11	ql s
LeaO	2S671	1hS4206	160y16h	16y- 06y	162h0- 0	6U4y	ql s

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RIAen&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUO

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
LeaO	2S071	12611h-	120h8S2	1261811	12662hh	SU6h	ql s
LeaO	2S871	6- 26641	64h- 2Sy	661- 68S	6464h1S	2U2-	ql s
LA&GAum	671	2h24- h4	248226h	2h1- h6h	2hS6028	SU80	ql s
5 agnesAum	2472	h8- y8y	h0y11h	h6048h	h0686-	1U40	ql s
5 anganese	hh72	8Sy8yS	8SS402	0y26- 8	8S1SSS	1US8	ql s
5 olEbOenum	y471	1h826	164S2	16S6S	16Sy6	1U8S	ql s
5 olEbOenum	yh71	hy1S	61y-	hy18	6SS0	2U6y	ql s
5 olEbOenum	y671	86S-	8hh-	880S	860h	1Uy6	ql s
5 olEbOenum	y071	- 842	- 810	- 0y2	- 810	SU66	ql s
5 olEbOenum	y871	1S401	y8yh	8y2S	y062	8US-	ql s
NeoOEmAum	1hS71	y242-	y- 684	yh- - S	y- 812	1Uh	ql s
NeoOEmAum	1hS72	284hS	28yy8	2001y	28- 8y	2U26	ql s
NAqkel	6S72	1yy81	2S4- 8	2SSh1	2S1h0	1U22	ql s
PGosI Gorus	- 172	8y- 6	8h44	yS0S	88hS	- USy	ql s
Po&assAum	- y72	hSh024	hS6- 8S	4yyyh6	hS4S2S	SU0S	ql s
CGoOAum	1S- 71	666y61S	0S42S48	0S4S- - 0	6y10- - 2	- U1S	ql s
CGoOAum	1S- 72	- 21S8- 0	- 2S28- 8	- 2S0144	- 2S6y4S	SU12	ql s
pqanOAum	4h71	4- - SyS1	4hh4811	462S2y0	4hS2SS-	- Uy0	ql s
pqanOAum	4h72	142- 14	1428S1	14- h00	1428y0	SU4h	ql s
pelenAum	8271	11y	11S	1hh	128	18U6h	ql s
pelenAum	0072	11S	1- -	6-	1S2	- 4U80	ql s
pelenAum	0872	82	81	04	0y	hUh2	ql s
pAAqon	2871	14S0S08-	14264041	14- hy26y	142- 1hy8	1US-	ql s
pAver	1S071	h2Sy	h4S1	h0h1	h4h4	hUS4	ql s
pAver	1Sy71	h468	h2y-	h468	h41S	1U80	ql s
poOAum	2- 72	hh4S6	hh48y	hh1y0	hh- 64	SU20	ql s
p&ona&um	8671	20h8S1	2008h2	20- 286	20h646	SU8-	ql s
p&ona&um	8871	2h88h0y	24y1416	2h4- h40	2h41181	1Uy1	ql s
pulfur	- 471	2y0S24	2y- Sy6	28yh- 6	2y- 21y	1U28	ql s
i erbAum	1hy71	yhSh- 40	1SS66h8-	1SSyh108	y88yS- 6	- Uy6	ql s
i erbAum	1hy72	4116h66	4144h22	4S6- 22h	41S81S4	1US1	ql s
i GallAum	2S- 71	22y2	2110	2h42	2- 10	yU22	ql s
i GallAum	2Sh71	h41S	h268	h- y-	h- h0	1U4h	ql s
i An	11871	- 0S60	- 82y6	- 0y86	- 008-	1U6y	ql s
i A&anAum	4071	110826	11y421	12Syy1	11y41-	1Uy-	ql s
MranAum	2- 871	h1hy0	4y2S4	h1- Sh	hS0S2	2Uh0	ql s

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RlAn&pamI le D :	5 9 SF4y	t Au&on Faq&or :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 10:S- :S0	t a&aFAe Name :	S88c C. FUD

Parame&er	5 ass	RPp 1	RPp 2	RPp -	RPp 5 ean	RPp Cpt	MnA&s
VanaOAum	h172	6260-	618y-	6- Syh	62hh4	SUy0	ql s
Y&erbAum	10271	1- 604	1- 816	1- 4y1	1- 66S	1U1y	ql s
Y&erbAum	10272	6624	642y	6S6-	6- 02	4U40	ql s
Y&erbAum	10671	1S288	1SS12	1S2S4	1S168	1U-y	ql s
Y&erbAum	10672	1hSy8	1h- 81	1461y	1hS- -	2Uh6	ql s
Y&&Aum	8y71	1- S2- hh-	1- 204486	1- 2- 22SS	1- 106046	1US2	ql s
Y&&Aum	8y72	1- 881yS	1- 141hS	1- 2- h2y	1- 41yh6	- USS	ql s
ZAnq	6672	1S0h20	1Sh466	1Sh4y-	1S6162	1U11	ql s
ZAqonAum	yS71	- 4hy4	- hySh	- 4800	- h12h	1Uy6	ql s
ZAqonAum	y171	0061	8S08	8hyh	8144	hU10	ql s

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LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 R CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sT i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMR

8spsb r Tp	y sww	98l 1	98l 2	98l -	98l y r sC	98l Fl &	5 CdTw
qPmb cCcmb	2072	J- N221	J- . 0. N	J4- - 12	J4S444	SR4N	dDw
qCTb nCE	12171	NS0N	N244	NS1.	N114	1R44	dDw
qpwr Ccd	0J72	. 22-	. 101	. S6-	. 1J2	SRN.	dDw
Bspcmb	1- J71	J4JS06	J601J-	J02611	J6161-	2R6S	dDw
Bspcmb	1- 071	. 02111	1S2JS. N	1SS0- N1	1SS1J- S	2R6.	dDw
Br pEPRmb	. 71	2. 06	- S. 1	- 126	- S6J	2R16	dDw
Bcwb mTG	2S. 71	0J. S1JS	022SS14	6. 641JJ	02JN1S6	4R 4	dDw
Bcwb mTG	2S. 72	- 26N- 6J	- 240J1S	- 2SNN- 6	- 241J01	SR -	dDw
Bpmb cCr	N171	6J6S	6J20	6N. 4	666S	- RSJ	dDw
9 sob cmb	1SN71	410	42.	42J	424	1R1S	dDw
9 sob cmb	1S671	4. N4	4JS1	4NS1	4062	JR1-	dDw
9 sob cmb	11171	- 4N2	- N2J	- 00.	- 6. J	JRS4	dDw
9 sPlcmb	4- 71	01S. 1-	0- . SN0	04S. - 0	0- S- 12	2R S	dDw
9 sPlcmb	4471	11NJ01- N	12- 0- 16.	12016446	12- 1JJN4	- R1	dDw
9 spenC	1271	4- 24NN2	444J1NS	4404SN1	4414014	1R0.	dDw
9 spenC	1272	JJ201	J6. 20	J4. 0N	JJ026	1RN.	dDw
9 GPmpcCr	- J71	2S6N. S4J	2400J- S0	2602- - J-	24S62J6N	12RNS	dDw
9 GPmpcCr	- J72	1. . 0- N	2S26- .	2S0JN1	2S- - 1.	1R J	dDw
9 Gpmb cmb	J272	41SS.	4S6N4	41S- 2	4S. SN	SR4N	dDw
9 nesFT	J. 72	- J- S4	- J204	- 6460	- J6N1	1R 1	dDw
9 nDDr p	6- 72	211. 10	2S. 4. N	2SN4. .	2S. . 01	SRN4	dDw
&EwDpnwcmb	1J671	0JJ- .	NSSN2	0. N4N	0N4. S	- R26	dDw
&EwDpnwcmb	1J672	- 246-	- 2. 10	- 1. 12	- 24- 1	1R1J	dDw
Upecmb	16471	JJ. NJ	JN0. 0	6S1N0	JN- 2-	- R60	dDw
Upecmb	16472	2- - 61	22. N-	2- - 24	2- 22-	SR S	dDw
HsonRCcmb	16S71	6JSS1	6NSJN	60446	66N- J	2R42	dDw
HsonRCcmb	16S72	- 166N	- 1JN1	- 1621	- 162-	SR14	dDw
h nPb cmb	16J71	1S411- N1	1SSS140J	. N42266	1SSNJS41	2R 1	dDw
h nPb cmb	16J72	424461S	4SNJ44S	4140- 0J	41J. 141	1R -	dDw
tCocmb	11J71	0JN0161	02S60N4	0S- 6- 21	02060JJ	- RNN	dDw
tCocmb	11J72	. 4- 061	. 26NS0	. - 1NS6	. - 412J	SR -	dDw
tpnC	J472	224N4. 4	2201J4J	22J. J2-	22J. NJ4	SR1	dDw
tpnC	J672	41- 64SN4	41SJS4. -	- . . 21. 61	4S00NN46	1RN6	dDw
tpnC	J072	. 01660	. 0. N10	. 6111N	. 0SN60	SR 0	dDw
KpEDTnC	N- 71	- 10	- 26	- J6	- - -	6R1S	dDw
Lr so	2S671	1214- - -	1244NN0	1200116	124J44J	2R12	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 Pr CTI sb DP t&:	y h SMJS	&dPmTcnC MsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP usb r:	SN. qF UMPb

8spsb r Tp	y sww	98l 1	98l 2	98l -	98l y r sC	98l Fl &	5 CdTw
Lr so	2S071	1S1JN11	1S46S. 4	1S624- 0	1S41440	2P20	dDw
Lr so	2SN71	JS0S226	J2S0N14	J- J- S. 0	J21S- 0.	2P01	dDw
LdTGmb	671	20S1J06	24JN6- -	2JS. - 4S	2JJ6J16	JPS1	dDw
y sgOr wcmb	2472	1J41S24	1J- 1014	1JS2N. 6	1J2J211	1P. S	dDw
y sOgsOr wr	JJ72	1S- S4SS	1S16460	1S100S2	1S21J2-	SP06	dDw
y nPEeor Cmb	. 471	244- S	26JN4	26026	2J. 14	4P. 6	dDw
y nPEeor Cmb	. J71	11014	12S40	11. 22	11N. 4	1P42	dDw
y nPEeor Cmb	. 671	1JS. 2	162NJ	16SJ1	1JNS.	4PSS	dDw
y nPEeor Cmb	. 071	6JNJ	0- 00	0J61	0104	0P2-	dDw
y nPEeor Cmb	. N71	1NS2.	1. 1. 0	1. J14	1N. 1-	4P14	dDw
ur noEb cmb	1JS71	12. 0J6	1- 0. 6-	1- 6S4.	1- 4JN.	- P1.	dDw
ur noEb cmb	1JS72	4SJ1N	- . . - -	4SJ4N	4S- - -	SPN6	dDw
ucdkr P	6S72	2- 4- 6	2- 20-	2- J06	2- 42N	SP6J	dDw
8 GhwDGhpmw	- 172	644-	61- J	J606	6SNJ	6P. 4	dDw
8 nTswwcmb	- . 72	- J- 6. .	- 41N62	- 4441S	- 466J0	1PNS	dDw
F Ghocmb	1S- 71	0406. . -	0S60- NS	6. 0. - NN	0104JN0	- P0S	dDw
F Ghocmb	1S- 72	- 10S00-	- S6S. 4-	- 1N1N0S	- 1- 0N62	2P1-	dDw
I dsCocmb	4J71	4. N22J2	4J2- . S0	4640021	4010. 6S	JPS-	dDw
I dsCocmb	4J72	141. 4S	1- . 144	1- . 6- N	14S241	1PS6	dDw
I rPPCcmb	N271	21J	10J	1NJ	1. 2	1SPN6	dDw
I rPPCcmb	0072	140	110	140	1- 0	12P60	dDw
I rPPCcmb	0N72	12J	1SJ	11.	116	NPN2	dDw
I dPdnC	2N71	124N4. 6J	1- 11024.	12. - 24. N	12N44. S4	2P1-	dDw
I dPr p	1S071	0620	NJJ-	N22N	N1- 6	JP00	dDw
I dPr p	1S. 71	0. 44	N- S-	N11.	N122	2P21	dDw
I nocmb	2- 72	11040.	110. N-	110NN2	1100N1	SP2-	dDw
I TpnCTcmb	N671	- . 206-	41212J	4112. 2	4SJ- . -	2P0S	dDw
I TpnCTcmb	NN71	- J- 4J66	- 66N2. 6	- 06. 2N0	- 6J0- N-	- P22	dDw
I mPPmp	- 471	- S0JN1	- SN- NN	- S0. 0-	- S0. N1	SP1-	dDw
Ar pecmb	1J. 71	1SN. SSNN	1S1. - J6J	1SS6. 260	1S- N4- S0	4P26	dDw
Ar pecmb	1J. 72	4S62S. 4	41SSS- 2	4S220JS	4S6162J	SP. J	dDw
AGsPPcmb	2S- 71	22J.	24. 2	26N4	240N	NP1.	dDw
AGsPPcmb	2SJ71	6SS2	6- 4-	62. -	621-	2P. 0	dDw
AdC	11N71	2044J	2. 21J	2NN4N	2NJS2	- P2N	dDw
AdSCcmb	4071	16N2N-	101101	1042S2	10121.	1P0-	dDw
5 psCcmb	2- N71	NS60-	N4JN2	NNJ- -	N4J. 6	4P6J	dDw

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Inst Id :P8

LB umb er p:	LB1264S0	3 Dr psTnp:	aswl sP
Lse l sb DP t&:	3 - 440722	tOwTpmb Or Tu sb r:	8 N
9 Rr CTI sb DP t&:	y h SMJS	&dPnTcnC MsdTnp:	1
&sTr i Adb r qdOmpr o:	2S2- 7S0712 10:S6:SJ	&sTsMdP u sb r:	SN. qF UMRo

8spsb r Tp	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
VsCsoomb	J172	6J120	6J4S2	64. - S	6J1J-	SR6	dDw
YTTr pe omb	10271	16- NJ	1024J	10- S-	16. 0N	- RS-	dDw
YTTr pe omb	10272	N10J	N1- S	0NJ2	NSJ-	2R10	dDw
YTTr pe omb	10671	11N02	12- S6	11J02	11. 10	- R1S	dDw
YTTr pe omb	10672	16101	16S21	162JJ	1614.	SR0-	dDw
YTTpomb	N. 71	14S62J61	1- NJ- JJ2	1- JSJN2.	1- NS0- 14	2RS4	dDw
YTTpomb	N. 72	14SS422	12. 6SN0	1- S0S12	1- - 4JS0	4R S	dDw
ZdCd	6672	14114J	1- . 1. 0	1- N416	1- . JN6	1RS1	dDw
ZqpdnComb	. S71	JS442	J26SS	J1. 02	J1602	2R1J	dDw
ZqpdnComb	. 171	111. 6	122- 1	12S64	11N- S	4R3.	dDw

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Inst Id :P8

LB umb er S:	LB1264O3	5 I r SstoS:	aswl sP
Lse psb I P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb I P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
APmb inimb	23O2	- 6- 4N4	- 646- O	- 611JN	- 6- 1O4	O.4N	cl w
Antib on9	12101	NyN	11OO	N42	J- -	1y.4J	cl w
ASvr nic	3yO2	14- J	1- 4J	1- yJ	1- N-	- .y3	cl w
BsSmb	1- y01	- - - J3y	- - 3N3O	- - - 622	- - y1y6	O.3O	cl w
BsSmb	1- 301	yJyN42	yJNNO6	yJ6y- -	yJ3O6O	O.26	cl w
Br S9PPmb	J01	- - 21	- y11	- 4NJ	- 44O	- .O2	cl w
Biwb mth	2OJ01	6yN3y11	63y4NJ1	6J241ON	63yyyO-	2.4J	cl w
Biwb mth	2OJO2	- 1NN4- y	- 2O4N1y	- 142364	- 13N631	1.O1	cl w
BSob inr	N101	6- J-	6yy2	636O	6y6N	2.NO	cl w
Csdb imb	1ON01	12y	J2	1OO	1O6	16.4-	cl w
Csdb imb	1O601	44N4	4O- 4	42N4	4263	y.2J	cl w
Csdb imb	11101	1444	1- 3-	1yON	1442	4.31	cl w
CsPeimb	4- 01	1O31Oy	1OyJJ6	1O6N6y	1O66y6	O.yy	cl w
CsPeimb	4401	1N4yN4J	1N2J- 21	1JO64NJ	1N6Oyy-	2.1N	cl w
CsSeon	1201	- 2- 636N	- - - 6314	- 26yOO2	- 23J4J4	1.y3	cl w
CsSeon	12O2	4O1Oy	- J412	- J4J6	- J631	O.Jy	cl w
ChPSnr	- y01	144416N2	1yNN2Ny6	16y6N6yO	1y6- 1O6-	6.Jy	cl w
ChPSnr	- yO2	11N3OO	12O1NO	11N313	11J1JJ	O.31	cl w
ChSob imb	y2O2	12O2J	1221y	11NN2	12O42	1.- J	cl w
CoesP	yJO2	13413	13- 61	13- 34	13- N4	O.13	cl w
Col I r S	6- O2	- 1y- N	- 1- 4y	- 1O63	- 1- 13	O.36	cl w
X9wl Sbwimb	1y601	1N12y4	1N4O14	1NO12O	1N13J6	1.1O	cl w
X9wl Sbwimb	1y6O2	346J3	36- 11	3- yJN	34N6J	1.N2	cl w
ESeimb	16401	14N432	14J423	1y221O	1yOO- 6	1.2J	cl w
ESeimb	164O2	6O33y	61O4J	6O- N3	6O3- 3	O.yy	cl w
GsdoPhimb	16O01	14NJO1	1yy614	1y- 3NJ	1y236N	2.23	cl w
GsdoPhimb	16O02	32- yN	31- 6-	31- 66	316J6	O.NO	cl w
HoPb imb	16y01	J2N3J1O	JyJ32N4	JJ6432O	J6166- N	- .y2	cl w
HoPb imb	16yO2	421NN3N	426O64-	4O3- 11J	41N421-	2.- y	cl w
Dndimb	11y01	63NJ2- N	6N2332N	3OyN4- -	6NJ1NOO	2.11	cl w
Dndimb	11yO2	J4N- J4	J4J16O	J- 6N2-	J443J2	O.3-	cl w
DSbon	y4O2	1N363y6	1J- 2424	1JO62- O	1JOy1- 3	1.46	cl w
DSbon	y6O2	- - 263326	- 4- 6J44N	- - 3- yy3O	- - 3JOJ1y	1.64	cl w
DSbon	y3O2	3JN- 22	NOO62O	NOJN26	NO2J2-	O.36	cl w
KS9l ton	N- 01	4yy	4- O	4y3	443	- .4O	cl w
Lr sd	2O601	2O- JyO	2O62J3	2Oy16N	2Oy1- J	O.y3	cl w

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LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8 sSsb r tr S	Msww	C8 p 1	C8 p 2	C8 p -	C8 p Mr sn	C8 p RpX	Unitw
Lr sd	2O301	16JN1N	13O1J4	13OO- 3	13OO16	O.11	cl w
Lr sd	2ON01	N16N22	N1J3NJ	N1N46J	N1N- 6O	O.1N	cl w
Lithimb	601	24J- - 14	24N4164	2y4NOJO	2yONy22	1.- N	cl w
Msgnr wimb	24O2	- 11N2N	- OJ1J2	- O6- y-	- OJ124	O.NJ	cl w
Msngsnr wr	yyO2	1136- 1O	11Ny3NJ	11664- 6	113613J	O.N2	cl w
MoP9edr nmb	J401	62- y	3OJ4	64O2	6y33	6.J2	cl w
MoP9edr nmb	Jy01	4- O1	4y26	44y1	4426	2.yJ	cl w
MoP9edr nmb	J601	y326	y6O1	y6O1	y64-	1.2N	cl w
MoP9edr nmb	J301	2JN4	26N4	- 1OJ	2J2y	3.43	cl w
MoP9edr nmb	JN01	31J4	311O	3O6O	3121	O.Jy	cl w
u r od9b imb	1yO01	- 1NOy4	- 2N- - O	- 2JJ3-	- 2y4y2	1.JN	cl w
u r od9b imb	1yO02	J3- - 3	JNOyO	J3363	J331N	O.- 3	cl w
u ickr P	6O02	N2J2	N- - -	N- y6	N- 23	O.- N	cl w
8 howl hoSmw	- 102	1313	1yJ2	1y13	16ON	6.2N	cl w
8 otswwimb	- JO2	- 4y242	- yO1N1	- - JyO2	- 44J3y	1.yy	cl w
Rhodimb	1O- 01	6N13O11	6N6JNJN	6N1262J	6N- - 13J	O.43	cl w
Rhodimb	1O- O2	- 22J32-	- 216NyN	- 142O6J	- 1J6216	1.4N	cl w
pcsndimb	4y01	42- 34N6	4- N- y4y	4y13J14	4- 3J64N	- .2O	cl w
pcsndimb	4yO2	142y2J	14- O14	1- JJ61	141N- y	1.16	cl w
pr PnimB	N201	13y	22J	1N3	1J3	14.23	cl w
pr PnimB	33O2	- yO	- 13	- 43	- - N	y.44	cl w
pr PnimB	3NO2	211	21O	22O	214	2.yN	cl w
piPcon	2N01	32J1O4-	312yNNy	312- J63	31NO2JN	1.- 4	cl w
piPr S	1O301	11ON	1- 13	11- -	11N6	J.yJ	cl w
piPr S	1OJ01	113y	1113	1OOO	1OJ3	N.12	cl w
podimb	2- O2	2N4y-	233- y	2NO23	2NO32	1.2J	cl w
ptSontimb	N601	NO44J	N4- 43	N12- 3	N2O11	2.y1	cl w
ptSontimb	NN01	3OONO4	31113-	3OON2J	3O426J	O.Ny	cl w
pmPmS	- 401	233O43	231463	231111	23- 2ON	1.22	cl w
Tr Seimb	1yJ01	J- yJ2JO	JNyO1JO	JNJ4y24	J3O1- - y	- .O6	cl w
Tr Seimb	1yJO2	4O3O16O	4O4- yy-	4O1JyJ-	4O444- y	O.6-	cl w
ThsPPmb	2O- 01	1JyJ	2O42	1342	1J14	N.OJ	cl w
ThsPPmb	2Oy01	4yO1	4y1N	44O1	443-	1.41	cl w
Tin	11N01	N211	Ny3O	Nyy-	N444	2.4O	cl w
Titsnimb	4301	21JO14	22- y3y	222162	221yN4	1.Oy	cl w
USsnimb	2- N01	4J34O	4JJON	yOy- y	yOO61	O.N4	cl w

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LB umb er S:	LB1264O3	5 l r SstoS:	aswl sP
Lse psb l P DX :	5 - 4430O- XL7 2	DwtSmb nr t usb r :	8 N
CPr nt psb l P DX :	MHOF13	XiPtion FsctoS:	2
Xstr & Tib r AcqmiS d :	2O2- 0O3012 13:OJ:O2	XstsFiP usb r :	OJOAREF.d

8sSsb r tr S	Msww	C8p1	C8p2	C8p-	C8pMr sn	C8pRpX	Unitw
Vsnsdimb	y1O2	214OJ	224ON	213- O	21N4J	2.- -	cl w
Yttr Seimb	13201	4y13O	461NJ	461N2	4yN43	1.2N	cl w
Yttr Seimb	13202	21- y6	213Ny	21y2-	21yyy	1.OO	cl w
Yttr Seimb	13601	2JO- -	- O- 61	2J- - -	2Jy3y	2.- y	cl w
Yttr Seimb	13602	241y6	2yJ4N	2yOy3	2yOy4	- .yN	cl w
YttSmb	NJ01	14133y2y	14y623NO	14y12N- 1	14413312	1.4y	cl w
YttSmb	NJ02	1yyJN1N	1y263y2	1y1- N4-	1y- - 431	1.yy	cl w
Zinc	6602	4- NO4	42y- 4	4- J3N	4- 4- J	1.N2	cl w
ZiSconimb	JO01	11246	1O3- N	1ON46	1OJ4-	2.4y	cl w
ZiSconimb	J101	24yO	223y	243y	24OO	4.y4	cl w

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Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 443O04XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDTio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
i lumTiTum	23O2	- n1222	- 89O19	- n6384	- n1OO3	1.91	Aps
i oDTmdoy	1210 1	88-	n29	898	88n	- .3n	Aps
i rseoTA	39O2	149n	1444	1493	1494	O.96	Aps
BarTum	1- 90 1	- 993n2	- 9n686	- 94n92	- 9681O	O.31	Aps
BarTum	1- 30 1	6249- 8	64693n	613138	62n4- 2	2.4-	Aps
BerylTum	n0 1	- 932	- 3- O	- 6n-	- 669	2.29	Aps
BTsmuDn	2On0 1	3O- 338O	312343O	68481- 8	3OO446-	2.O4	Aps
BTsmuDn	2OnO2	- 2n468O	2n6O6- 1	26nO1n6	2n818- 6	1O.19	Aps
BrdmTbe	81 0 1	3O23	3O1O	32- 9	3On1	1.33	Aps
CaqmTum	1O8 0 1	n2	146	1O4	114	24.nO	Aps
CaqmTum	1O6 0 1	439n	44- 4	4136	4496	6.96	Aps
CaqmTum	111 0 1	1962	1912	1934	194n	2.11	Aps
CalATum	4- 0 1	1122O8	11- O62	114On2	11- 121	O.8-	Aps
CalATum	44 0 1	1nn4449	2O43O18	1n9n641	2OOO- 68	2.2O	Aps
Carbdo	12 0 1	- - 93938	- - - 8O19	- - n3349	- - 64446	O.n1	Aps
Carbdo	12O2	41- 13	41129	414n-	41- 11	O.49	Aps
ChldrTbe	- 90 1	12911- 29	141- 4O- n	1912- 8n3	1- n2- O83	n.43	Aps
ChldrTbe	- 9O2	11- 4OO	111- 91	11994-	11- 4- 1	1.89	Aps
ChrdmTum	92O2	12662	12- 6n	1- O3n	123O4	2.81	Aps
CdbalD	9nO2	1826n	138- 1	183nn	18- OO	2.69	Aps
Cdpper	6- O2	- OnO3	- O48n	- 1- 88	- On28	1.49	Aps
XysprdsTum	196 0 1	186n88	1831- 2	181488	1892O2	1.34	Aps
XysprdsTum	196O2	39n48	3616-	33292	36494	O.n1	Aps
ErbTum	164 0 1	14n9n4	1996- 3	19291O	19298O	1.n8	Aps
ErbTum	164O2	6O914	9nn81	61n- 4	6O81O	1.66	Aps
GaqdlTbTum	16O0 1	198446	198992	19- - 89	1963n4	1.88	Aps
GaqdlTbTum	16OO2	3- 32n	34On9	39O9-	342n2	O.n2	Aps
HdlmTum	169 0 1	nn1O943	nnnO968	1OO84O82	nnn9O66	O.83	Aps
HdlmTum	169O2	4411242	- 8628- 8	- 92O36-	- n- 1614	11.4-	Aps
IoqTum	119 0 1	6n9n983	3223n64	3OO1618	3O6- O96	2.O4	Aps
IoqTum	119O2	n3n- 29	868888	38nOO1	83nO31	1O.83	Aps
Irdo	94O2	2On6- 26	2O62O21	21O884-	2O8nO6-	1.16	Aps
Irdo	96O2	- 6942O3-	- 34On36n	- 82666- -	- 34O6198	2.- 1	Aps
Irdo	93O2	83444-	881n82	8nn- 93	889261	1.44	Aps
KrypD0o	8- 0 1	433	466	441	462	4.O2	Aps
Leaq	2O6 0 1	21n921	2212O9	21- 2nO	218OO9	1.n1	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0r :	Jaswal
Lab Sample IX :	5 - 443OO4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0r :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
Leaq	2O301	138448	1338n6	1829O8	13n613	1.4O	Aps
Leaq	2O801	831O6O	866- 92	86942-	863612	O.- 9	Aps
LTDTum	601	2999243	2696O- 4	2699143	262214-	2.21	Aps
MagoesTum	24O2	- 21OO4	- 11693	- 183- 1	- 131- 1	1.94	Aps
Maogaoese	99O2	124462-	12- n428	1284O23	1296O26	1.n4	Aps
Mdlybqeoum	n401	6623	66O2	6289	69O4	2.n-	Aps
Mdlybqeoum	n901	9O84	4936	48O1	482O	9.2n	Aps
Mdlybqeoum	n601	9n- 9	9336	9689	93nn	2.18	Aps
Mdlybqeoum	n301	2842	28On	2339	28On	1.1n	Aps
Mdlybqeoum	n801	3944	366n	3911	3939	1.1O	Aps
NedqymTum	19OO1	- 29- On	- 2n693	- 18196	- 24- 34	1.3n	Aps
NedqymTum	19OO2	1OO- 6n	n3336	nn9- O	nn229	1.- -	Aps
NTAkel	6OO2	83- -	831-	839n	83- 9	O.23	Aps
Phdsphdrus	- 1O2	1413	14- -	19O8	149-	- .- 6	Aps
PdDassTum	- nO2	- 2n- 46	- 231OO	- - 9OOn	- - O489	1.2-	Aps
RhdqTum	1O- 01	3119Onn	3241n38	3162933	313- 218	O.8n	Aps
RhdqTum	1O- O2	- - 3O- 39	2n- 493-	26669OO	2nnO48-	11.88	Aps
SAaoqTum	4901	463O239	4391844	49n892n	463- 94n	1.64	Aps
SAaoqTum	49O2	146- - 1	1- 2942	1164- 1	1- 1368	11.- 6	Aps
SeleoTum	8201	2O9	229	21n	216	4.3-	Aps
SeleoTum	33O2	- 1O	2n-	- 1O	- O4	- .16	Aps
SeleoTum	38O2	246	2- 3	248	244	2.4O	Aps
STTAdo	2801	82- 2124	8O926O6	8- 8nn1-	8224881	2.O9	Aps
STver	1O301	12- -	1- 9O	11n2	1298	6.92	Aps
STver	1On01	12OO	12O8	1- 39	1261	3.8-	Aps
SdqTum	2- O2	- 3- 82	- 9n83	- 3n16	- 3On9	2.6n	Aps
SDdoDTum	8601	8n14-	884O9	88- 46	886- 1	O.9O	Aps
SDdoDTum	8801	39n326	362698	36n- - n	36- nO8	O.64	Aps
Sulfur	- 401	268888	269812	261396	269489	1.- 9	Aps
&erbTum	19n01	1O- 99688	1O- 9n49n	n816n13	1O133- 99	- .O3	Aps
&erbTum	19nO2	4221433	- 3nn2O9	- 41n3O8	- 81- 46-	1O.92	Aps
&hallTum	2O- 01	2O13	1n13	1n- 4	1n96	2.34	Aps
&hallTum	2O901	4926	4n- 4	49O1	4694	9.2-	Aps
&TD	11801	12496	1- O- 1	1- O4n	12849	2.6-	Aps
&TaoTum	4301	24O431	24O322	24O636	24O62-	O.O6	Aps
UraoTum	2- 801	9O918	9- 446	9O442	9146n	- .- -	Aps

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264O3	5 peraD0lr :	Jaswal
Lab Sample IX :	5 - 4430O4XL7 2	IosDumoeDName :	P8
ClTeoDSample IX :	MHOF18	XTuDEio FaAD0lr :	2
XaDe t &Tme i AcuTeq :	2O2- 0O3012 13:12:O1	XaDaFTe Name :	On1i REF.q

ParameDer	Mass	CPS1	CPS2	CPS-	CPSMeao	CPSRSX	UoTs
VaoaqTum	910 2	2- O62	22- n8	2- O9n	228- n	1.68	Aps
YDerbTum	1320 1	46- 4n	498n3	432- 9	464n-	1.46	Aps
YDerbTum	1320 2	21889	224- 6	223O-	22- 41	1.83	Aps
YDerbTum	1360 1	- O26n	- O69-	- 16- O	- O891	2.28	Aps
YDerbTum	1360 2	26O69	29O6-	2- 3- -	24n94	4.6n	Aps
YDDTum	8n0 1	143n24- O	19262231	1434n9O-	14n- 43- 9	1.nO	Aps
YDDTum	8n0 2	1938O93	142OO91	12986O4	1418nO4	11.26	Aps
ZTbA	660 2	46O31	46132	46n84	464On	1.O8	Aps
ZTAdoTum	nO0 1	1O9n6	1116-	1111-	1On93	2.83	Aps
ZTAdoTum	n10 1	2984	2484	229n	2442	6.82	Aps

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII inI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4407S0	&CPIIbe Cpi:mI e p:J	us
9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdNbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdNd:mI e p:J	S. 2 FUMRo

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI C	9 u DF DT	5 CdqP
Nve qCdpe	2072	426244	420S- -	41sS- -	42- 00S	1R1s	dt P
CIqe nCE	12171	- a42	- 610	- 006	- 64a	- R20	dt P
IPpCqd	0a72	2- s6	2244	2246	22. 2	- Raa	dt P
BI IdNe	1- a71	- a02a.	- a04s.	- a2- - a	- aa6. 4	SRs2	dt P
BI IdNe	1- 071	6- 2a66	6- - a06	6- 101S	6- 261s	SR1a	dt P
BpIENNe	. 71	- 0a-	- 06a	- 00a	- 064	SR S	dt P
BqPe biG	2S. 71	0S6s66S	01. s261	6sS4241	0S2- 021	2Rs6	dt P
BqPe biG	2S. 72	- 2- 24. S	- 2- . S- 4	- 2- S6. 6	- 2- 4S04	SR14	dt P
BIne qCp	s171	aasa	a66s	a. S1	a01s	2Rs0	dt P
9 I oe qNe	1Ss71	- 42	246	- S4	2. 0	16R2a	dt P
9 I oe qNe	1S671	4s4-	4606	42a.	4a. -	6Ra4	dt P
9 I oe qNe	11171	21as	2- as	2Sa.	21. 2	6R 6	dt P
9 I NdNe	4- 71	- . 060-	4S- 0- 6	- . s. 06	4SS12s	SRsS	dt P
9 I NdNe	4471	6s12600	6s66aSa	66. 142a	60. S2S-	1R 2	dt P
9 I Ir nC	1271	- 6621. .	- 0- a06a	- 0. S6- 1	- 02. a- 2	1R0-	dt P
9 I Ir nC	1272	4a61-	46S. s	4441s	4a- 06	1R 1	dt P
9 GNIqCp	- a71	1. 4s20as	2- 024s6s	2614a1s.	2- 1106Sa	14Ra.	dt P
9 GNIqCp	- a72	1. a0S.	2Sa46S	2S01. 2	2S20s0	- RSa	dt P
9 GIne qNe	a272	2- 6. -	2- - s.	2- 0sS	2- 621	SRs0	dt P
9 nr I NI	a. 72	2. S4-	2s21a	2saS.	2sas.	1R40	dt P
9 nt t pI	6- 72	6- aSa	620aa	62. 2.	6- S6-	SR62	dt P
TEPt InPqNe	1a671	s4- as	s661a	s02a2	s6S0a	1R00	dt P
TEPt InPqNe	1a672	- a. 1a	- a- 4S	- 4- S0	- a1s0	2R 1	dt P
UIr qNe	16471	6- S60	642- .	6- s46	6- 010	SR 4	dt P
UIr qNe	16472	2a02a	2a4as	24266	2a14.	- RS.	dt P
HI onNqCqNe	16S71	0- . 0-	064- 6	06- 0s	0aa. 6	1Rs6	dt P
HI onNqCqNe	16S72	- a4. 4	- 4s12	- 42s0	- 4s64	1R04	dt P
h nNe qNe	16a71	1S46Sa2a	1S41- 1a-	. 604- . -	1S1s26. S	4R -	dt P
h nNe qNe	16a72	41S- aSa	410024-	4S. . 1S.	412661.	1RS6	dt P
&CodNe	11a71	02s0. a6	02a6a2-	0S1ss64	01s00s1	2RSa	dt P
&CodNe	11a72	. - a1- a	. 42aa6	. 20S- -	. - 4. Ss	SRs-	dt P
&nC	a472	1ss4s40	1s4s- - 6	1sS6- 4s	1s46a1S	2R1-	dt P
&nC	a672	- 206sS- -	- - a02- - 0	- 2- S226a	- 2ssSs0s	1R a	dt P
&nC	a072	0s0026	0. 6s06	00. s02	0ss1as	1RSs	dt P
KIEt inC	s- 71	- 11	- 02	- S.	- - 1	1SR 1	dt P
LpI o	2S671	a21aas	a44ss6	a2- - 21	a2. . 22	2R4a	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pl:J	LB1264S0	3 t pll inl:J	wl P8 l N
Ll r :Dl e t Nd:&T :J	3 - 4407S0	&CPllbe Cpi:ml e p:J	us
9 NdpCi:Dl e t Nd:&T :J	y h SM2-	TdNiqnC:M dinl:J	1
Tl ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	Tl il MdNd:ml e p:J	S. 2 FUMR0

ul ll e pipl	y l PP	9 u D1	9 u D2	9 u D-	9 u Dy pl C	9 u DF DT	5 CdqP
Lpl o	2S071	4- - 0. 6	44s64S	44S6s2	441S- .	1R3s	dt P
Lpl o	2Ss71	2S6S161	21Ss. 16	2S6- 2a1	2S0044-	1R 1	dt P
LqiGdpe	671	26- - . . .	26- 6- 0s	2aS46- 4	2a. 160S	2R 1	dt P
y l gCpPdpe	2472	0a6S10	044. s2	041- 1-	0404- s	1RS2	dt P
y l Cgl CpPp	aa72	4- 1114	4- 46. .	4241. 0	4- SSS-	1R24	dt P
y nNEr opCbe	. 471	aSs- a	a2s10	a1040	a1sSS	1R.2	dt P
y nNEr opCbe	. a71	46S1	4006	46s4	46s0	1R30	dt P
y nNEr opCbe	. 671	12a14	1- 2. S	12. S6	12. S4	- RS1	dt P
y nNEr opCbe	. 071	2s- 4	2a0a	2. 60	20. 2	0R1-	dt P
y nNEr opCbe	. s71	606.	6. 20	0- 1S	0SS2	- R.s	dt P
mpnoEe dpe	1aS71	1a1- 4a	1a4s- 2	1a- s61	1a- - 46	1R10	dt P
mpnoEe dpe	1aS72	4a. 4a	44. 0s	446. 4	4a2S6	1R4a	dt P
mqdkpN	6S72	1a2. 2	1402s	1a122	1aS40	1R.2	dt P
uGnPt GnlbP	- 172	a46s	a426	a1S.	a- - 4	- R60	dt P
unil PPdpe	- . 72	4SS1aa	- . . a6a	4S4Sa4	4S12as	SR61	dt P
FGnodpe	1S- 71	0- 2a6- .	02126S0	60. S1. 1	01S. 40.	- R.0	dt P
FGnodpe	1S- 72	- 16a6sS	- 1. . 12s	- 1000S4	- 1sSs- 0	SRa-	dt P
Ddl Codpe	4a71	4041S- s	40aa06S	441264S	46- 640.	4R1s	dt P
Ddl Codpe	4a72	1422S0	1414s6	14S426	141- 0-	SR6-	dt P
DpNqCdpe	s271	1- 0	124	1s2	14s	2SR00	dt P
DpNqCdpe	0072	1- 0	1- -	11S	120	11R40	dt P
DpNqCdpe	0s72	142	11s	1S4	121	1aR34	dt P
DqNdnC	2s71	12. - 626-	1- 1- S- 41	1- S- 2s10	1- S- - 14S	SR04	dt P
DqNpl	1S071	4- a1	- . S.	- . S1	4Sa-	6R.a	dt P
DqNpl	1S. 71	- as4	4aa1	- 0- 4	- . a6	1- R1a	dt P
Dnodpe	2- 72	4. 1. 2	4s. Ss	4sa- 1	4ss00	SR6s	dt P
DilnCidpe	s671	1s. - 14	1. 62. a	1. 42a1	1. - 2s6	1R36	dt P
DilnCidpe	ss71	1061216	1006as.	10. 4a. a	1000460	SR.4	dt P
DbNbl	- 471	- S1216	- S4. s0	- Sa64-	- S- . 4.	SR0.	dt P
cplr dpe	1a. 71	1Sa4a6. s	1S- . . - aS	. 02S60S	1S221. S6	4R 1	dt P
cplr dpe	1a. 72	4S064SS	4Sss1a-	- . 0sa- -	4S406. a	1R4.	dt P
cGl Nqpe	2S- 71	14Ss	14as	1aSs	14as	- R4-	dt P
cGl Nqpe	2Sa71	- 0S.	- 460	- 606	- 610	- R62	dt P
cqC	11s71	22666	16644	10160	1ss26	10R02	dt P
cqlCdpe	4071	1- a61-	1- 6220	1- 1. - S	1- 4a. S	1R0-	dt P
5 ll Cdpe	2- s71	6a24-	6a. ss	6assS	6a0S4	SR61	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII inI:J	wI P8 I N
LI r :DI e t Nd:&T :J	3 - 4407S0	&CPIIbe Cpi:mI e p:J	us
9 NdpCi:DI e t Nd:&T :J	y h SM2-	TdbiqnC:M dinI:J	1
TI ip:A:cqe p: dCbdqpo:J	2S2- 7S0712:10J14Jas	TI il MdbI:mI e p:J	S. 2 FUMRo

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl C	9 u DF DT	5 CdqP
VI CI odqe	a172	44212	44SS0	440. S	44- - 6	SR.2	dt P
YiipIr dqe	10271	1s221	10462	10- 12	1066a	2R06	dt P
YiipIr dqe	10272	s214	s4as	sS0a	s24.	2R a	dt P
YiipIr dqe	10671	12. 4S	124- 1	12s6a	1204a	2R16	dt P
YiipIr dqe	10672	166- s	16Ss2	161. .	16- S0	1RsS	dt P
YiiIdqe	s. 71	14S24141	14S6s- - 4	1- 11- ssS	1- 0- a4a2	- R.2	dt P
YiiIdqe	s. 72	142sSSS	1- 22a04	1- S- 6. 0	1- a1424	4R.6	dt P
ZdqCd	6672	1. 2s1a	1. 4S- 1	1. 2s64	1. - 2- 6	SR.6	dt P
ZdqdnCdqe	. S71	12sS6s	1- - 206	1- 26a2	1- 1- - 2	2R10	dt P
ZdqdnCdqe	. 171	2. a66	2. s04	2. 04.	2. 0- S	SRa2	dt P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	12	120	1N6	140	22M06	dDl
q. Tb C. h	121:1	42	-N	0-	-N	2NM0	dDl
qpl r . cl	0-:2	-	S	2	2	1S0MM-	dDl
Bwpcmb	17-:1	-N	142	177	111	41M1	dDl
Bwpcmb	170:1	1 2	0-	1N7	1-S	47M	dDl
Br ph8&mb	:1	77	7N	7	76	M12	dDl
Bdl b mTE	2S :1	021 S76	6 S7 00	60-2277	6 -N416	7M12	dDl
Bdl b mTE	2S :2	727S 2	27N7SN0	7106 24	2 7S774	16M2S	dDl
BpCb c r	N1:1	76 2	7N-	70S1	70-1	2MS	dDl
F wob mb	1SN:1	4	N	10	1S	6-M0	dDl
F wob mb	1S6:1	7N74	720-	2 10	7742	17MM7	dDl
F wob mb	111:1	4S1	774	2 7	747	16M52	dDl
F w8lmb	47:1	26S	71	44-	741	20M0S	dDl
F w8lmb	44:1	7S1S-	7S720	7164-	7S6 7	2M01	dDl
F wpeC.	12:1	22N4162	22616N0	22-4024	2266N-N	SM0N	dDl
F wpeC.	12:2	26 0-	26066	20020	201-6	1MM6	dDl
F E8Qpc r	7-:1	4S 6216	7 1264	7014744	7 S0070	4MM	dDl
F E8Qpc r	7-:2	27-4-	22N7-	2S 04	224-1	-M1	dDl
F EpCb mb	-2:2	1120	1S60	11 S	112N	-M0	dDl
F Cew8T	- :2	67	20	-S	40	7 M06	dDl
F CDDr p	67:2	0N7	N6S	N1S	N1N	4M06	dDl
&hl DpCl mb	1-6:1	2-	S	N	11	114MN	dDl
&hl DpCl mb	1-6:2	7	1S	70	10	1S-MM-	dDl
Upemb	164:1	0-	60	N7	0-	11M1	dDl
Upemb	164:2	70	20	77	72	1-MS	dDl
GwoC8c mb	16S:1	110	110	1SN	114	4M2	dDl
GwoC8c mb	16S:2	S	07	100	117	4NM-	dDl
HC8b mb	16-:1	1S2N-6NN	NN- -72	-12N14	N 460N	7M1	dDl
HC8b mb	16-:2	417 22	7S070N0	4S4-7S1	70-2002	1-M02	dDl
t. omb	11-:1	0-0 1SS	0216 0	6 70S-2	02447N7	4M4	dDl
t. omb	11-:2	46-10	6 7707	20N40	N- - 12	16M4N	dDl
tpC.	-4:2	422	7-S	-60	446	24M02	dDl
tpC.	-6:2	7160	7410	0010	4060	-7M-	dDl
tpC.	-0:2	02	1-S	77	1N0	07M7	dDl
KphDTC.	N7:1	2-S	2-6	2-	2- -	1M0	dDl
Lr wo	2S6:1	N61	044	10	N41	1SM46	dDl

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	022	22	N2N	N24	12M14	dDI
Lr wo	2SN:1	70N	7-0N	74N	761	4M26	dDI
LcTEcmb	6:1	26S0-N1	26S--1-	2-S4666	2-02-N0	2M2	dDI
9 wg. r l cmb	24:2	1-S	1SS	2N7	10N	-7M71	dDI
9 w. gw. r l r	--:2	N0	1S0	1NS	124	7 M4	dDI
9 C8neor . mb	4:1	1SN	110	1 2	17	77M34	dDI
9 C8neor . mb	-:1	77	77	110	61	0NM04	dDI
9 C8neor . mb	6:1	1-S	2	10-	17	7SM0	dDI
9 C8neor . mb	0:1	N7	77	-S	-6	4-MN7	dDI
9 C8neor . mb	N:1	N7	42	0-	60	77M30	dDI
u r Cohb cmb	1-S:1	77	2S	20	20	24M	dDI
u r Cohb cmb	1-S:2	7	S	47	16	1--M37	dDI
u cdkr 8	6S:2	77	77	N7	-S	-0M04	dDI
3 ECl DECpm	71:2	1SN	1SN	1-S	122	1 M6N	dDI
3 CTWl cmb	7 :2	NN0N	N-76	N 61	N0 2	2M6	dDI
y ECocmb	1S7:1	07607-S	0SS40-7	0SS0 01	01266 1	2M2	dDI
y ECocmb	1S7:2	71-2S N	2426N74	717- -	2 S4 06	14M26	dDI
l dw. ocmb	4-:1	46N 6-	4-7S74	444SN4	4--7021	2M00	dDI
l dw. ocmb	4-:2	14S624	1S1N40	17 162	120211	10M2N	dDI
l r 8 . cmb	N2:1	:14	:1S	:4S	:21	:06M1	dDI
l r 8 . cmb	00:2	S	S	7	1	107M21	dDI
l r 8 . cmb	0N:2	1S	17	1-	17	1 MN0	dDI
l c8dC.	2N:1	101400	1607 0	166241	16N702	1M67	dDI
l c8vr p	1S0:1	210	242	177	1 0	2NM06	dDI
l c8vr p	1S :1	12-	142	177	177	6M2-	dDI
l Cocmb	27:2	162 7	16406	161S	162 7	1M17	dDI
l TpC. Tcmb	N6:1	477	-10	660	-7	21M4	dDI
l TpC. Tcmb	NN:1	1160	1S-S	1--	12-N	21M10	dDI
l m8mp	74:1	24 4S2	2-S-70	2-1171	2-S7-0	SM7-	dDI
Ar pecmb	1- :1	1S7 -126	074 00	66-206	710 7	4M36	dDI
Ar pecmb	1- :2	4SS2-12	2 7674S	7N6-00-	76S1-42	16M11	dDI
AEw8cmb	2S7:1	7-S	1N7	742	2 2	72M2S	dDI
AEw8cmb	2S-:1	6SS	60-	60-	6-S	6M06	dDI
Ac	11N:1	11-S	12SN	1210	11 2	7M3-	dDI
AcTw. cmb	40:1	1 2	1 2	1SN	164	2 M7-	dDI
5 pw. cmb	27N:1	10	-S	10	2N	6 M20	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 7BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 7	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J10a1 a-4	&wTwRc8 Ju wb r Ja	S 7FFBUMd

3wpwb r Tr p	9 wl l	F3I 1	F3I 2	F3I 7	F3I 9 r w.	F3I y l &	5 . cT
Vw. wocmb	-1:2	S	27	47	22	0M8S	dDl
YTTr pecmb	102:1	42	42	77	7	12M7N	dDl
YTTr pecmb	102:2	77	10	2N	26	72M02	dDl
YTTr pecmb	106:1	1277	1777	1S-N	12SN	11M2	dDl
YTTr pecmb	106:2	1S- 7	0 SN	11102	N 1	10M61	dDl
YTTpcmb	N :1	17-74- -	120N 2N2	12706- 7	12 SS1-0	4M-	dDl
YTTpcmb	N :2	127-6SS	22N S	127-6N4	11717 2	1-M6	dDl
Zc d	66:2	140	117	1 7	1-1	26M	dDl
ZqpdC. cmb	S:1	- 2	-SN	442	-14	14M62	dDl
ZqpdC. cmb	1:1	2	60	12-	4	7SMN	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l T Rdpamle pas	S 4LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	14u0	147-	16 -	1-7	uM7	dDP
q. Tde C. h	121J1	10Su6	16600	102S7	16 u	1M62	dDP
qlPp. cd	0-J2	22	27	24u	27	7Mu	dDP
Bl dbe	17-J1	1 1 0	1 2u	1 0-0	1 414	1M4	dDP
Bl dbe	170J1	771u7	7707-	77S 1	77776	1N34	dDP
BplhNbe	J1	27S0	2766	22-1	27Su	2M4	dDP
BdPe bTE	2S J1	6S 4- 6	60u604	66uS0-u	6-2S0S1	-M02	dDP
BdPe bTE	2S J2	71-7664	724021-	7246u2S	721- SS	1M0u	dDP
BlCe c p	u1J1	4SS1	42S1	7 74	4S4-	7M47	dDP
Fl oe dbe	1SuJ1	167	10-	217	1u7	14M1	dDP
Fl oe dbe	1S6J1	74u4	70u4	7010	7662	4M7S	dDP
Fl oe dbe	111J1	2671	2-u	2400	2-66	7N3	dDP
Fl Ndbe	47J1	12774	12-uu	12SS	1271S	2M76	dDP
Fl Ndbe	44J1	2206 S	22- - - 0	227u10	22-6uu	SM6	dDP
Fl lr C.	12J1	27-SS-S	27411 2	2262012	2710 u-	2N30	dDP
Fl lr C.	12J2	20u1S	20-47	200-2	200S2	SM1	dDP
FENCl c p	7-J1	2-26 00	246 701	24S 0 S	246u017	2M70	dDP
FENCl c p	7-J2	16447	1-160	147	1-776	6M07	dDP
FElCe dbe	-2J2	6S-u	6Su1	- u1	6S4S	SM0	dDP
FCr l NT	- J2	4041	4671	4uS4	402-	1M6	dDP
FCDDpl	67J2	u7-7	u2u6	u4-	u766	1N3-	dDP
&hPDlCPtbe	1-6J1	10	S	u	u	1SSN32	dDP
&hPDlCPtbe	1-6J2	0	S	2S		114M-	dDP
Ulr dbe	164J1	0-	110	0-	u	20N30	dDP
Ulr dbe	164J2	10	70	77	2	70N3u	dDP
Gl oCNd dbe	16SJ1	-S	60	u7	60	2-N3S	dDP
Gl oCNd dbe	16SJ2	1S0	140	170	17S	16N31	dDP
HCNe dbe	16-J1	u- 7Su-	67S1-S	40-776	272u-0	6N36	dDP
HCNe dbe	16-J2	4S7uu07	4110-S6	41S60 7	4Su0024	1N34	dDP
t. odbe	11-J1	61u-171	6 0S6-2	6 u7 S1	601722u	6M1	dDP
t. odbe	11-J2	72- -	7-07-	-S04S	7 60u	1N37	dDP
tlC.	-4J2	27S-u	27 7	270-	276S7	2N36	dDP
tlC.	-6J2	42712u	427-11	47170	426SS6	1N3	dDP
tlC.	-0J2	1S 21	1S-6S	1Su 7	1S0 1	1M6	dDP
KlhDTC.	u7J1	246	264	264	2-u	7M2	dDP
Lpl o	2S6J1	2 2	2-7	u-0-	S4S	4M46	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s-	&l Tl Rdpamle pas	S 4LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	06uS	0 -u	0076	00 1	1Nd	dDP
Lpl o	2SuJ1	7- 26	76-6-	7-271	7- S0	1Nd6	dDP
LdEdbe	6J1	22u277	24 1u -	2-2u 6-	24744SS	-N46	dDP
9l g. pPdbe	24J2	4u	0--1	1SS27-	S 2	1N4S	dDP
9l . gl . pPp	--J2	1460	1777	14 0	1472	6N80	dDP
9 CNr op. be	4J1	1u2S4	1u2 6	1012u	10u06	7N67	dDP
9 CNr op. be	-J1	21 26	2241	21110	21u2S	7N81	dDP
9 CNr op. be	6J1	2-16-	24267	2-1 u	24u06	2M7	dDP
9 CNr op. be	0J1	14-66	17 1	14741	142	2N87	dDP
9 CNr op. be	uJ1	7-4 6	76771	74147	7-727	7M7	dDP
mpCohe dbe	1-SJ1	20	S	20	1u	u6N4S	dDP
mpCohe dbe	1-SJ2	0	S	7S	12	12uN0	dDP
mdkpN	6SJ2	1220	17S7	1760	12	-N4S	dDP
3ECPDECIbP	71J2	110	1-S	1SS	122	2SN7	dDP
3CTl PPdbe	7 J2	667u6	66-01	6 12-	60761	2N20	dDP
y ECodbe	1S7J1	6426761	6 24SS1	0S-uSSS	6uS20u0	4Nd	dDP
y ECodbe	1S7J2	71641 2	72-46	71000S4	71 uu6-	1N7	dDP
: dl . odbe	4-J1	7 uSS S	47 -0-6	447S61u	426uu21	-N0	dDP
: dl . odbe	4-J2	14S772	17u66	17 uu	17 667	SN67	dDP
: pNp. dbe	u2J1	u	2	u1	uu2	6N4-	dDP
: pNp. dbe	00J2	20	2S	77	20	24M	dDP
: pNp. dbe	0uJ2	u6	1SS	6-	u4	21N8-	dDP
: dNdC.	2uJ1	2714-7	22-uS6	227S22	226061	1Nd	dDP
: dNpl	1S0J1	117 0	11uu	11 14	11077	2N4	dDP
: dNpl	1S J1	1S S-	1S S-	1S 7S	1S 17	SN7	dDP
: Codbe	27J2	1u4 6	1u1710	1u6uS2	1u4702	1N2	dDP
: TC. Tdbe	u6J1	2 -S	7S74	7274	7S07	4N04	dDP
: TC. Tdbe	uuJ1	2710u	2417u	22011	27742	7N2	dDP
: bNbl	74J1	2-6111	2-0u7u	2-7u-2	2-- 74	SN0u	dDP
Apl r dbe	1- J1	uu667 -	1SS1u1uu	-040-u	4u6440	6N2	dDP
Apl r dbe	1- J2	7 -u074	4111S76	7 0276-	4S14S4-	2N1S	dDP
AEl NNbe	2S7J1	0	70	1SS01	6	SN0u	dDP
AEl NNbe	2S- J1	27240	272uS	22u0	2717-	SN6	dDP
Ac	11uJ1	14-u	1242	1S-S	12-S	16N74	dDP
AdT. dbe	40J1	661u	6200	6226	6704	7N7-	dDP
5ll . dbe	27uJ1	777-7	747u1	72 7-	77--6	2N2	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 7B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a10s22s- -	&l Tl Rdpamle pas	S 4LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	-20	7-7	06S	-40	2M14	dDP
YTpIr dbe	102J1	u7	0-	-u	02	10M67	dDP
YTpIr dbe	102J2	-6	77	2u	7	70MS	dDP
YTpIr dbe	106J1	11SS	17Su	1460	12 2	14M24	dDP
YTpIr dbe	106J2	1Su01	11S	11466	11146	2M6	dDP
YTTdbe	u J1	112 24S6	122162-1	12- -1602	12S2S11S	-M47	dDP
YTTdbe	u J2	127- 14	12-02 6	120SS-7	12-4421	1M7u	dDP
Zc d	66J2	27 S	2414	2424	24S	SM01	dDP
ZddC. dbe	SJ1	14 2	140SS	1-u74	1-10-	7Mu	dDP
ZddC. dbe	1J1	7410	7442	7410	7426	SM42	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10.J26.JSS	t s&sMRe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5nA&w
cRmAAum	20 2	C2- 261	CS2S. .	7C444-	CS6. 76	1R6.	ql w
cn&AmonE	121 1	4226	4SS1	- 774	4S- 0	4R S	ql w
crwenAq	0. 2	2022	200-	201-	20- 6	1R17	ql w
BsrAum	1- . 1	- 70616	- C4S41	- C1671	- C111-	SR7-	ql w
BsrAum	1- 0 1	677C- 6	6C1202	6C4S24	6C1411	SR 0	ql w
BerEHAum	C 1	2C22	2C04	27SS	27CC	- RS7	ql w
BAumu&G	2SC 1	611S114	666- 004	6CCS1- S	6. 77SS6	6R0.	ql w
BAumu&G	2SC 2	- - 2S166	- 42- SCC	- 22S- 47	- - 212S.	- RS.	ql w
BromAne	71 1	60- .	0- 6C	04S2	016C	. R24	ql w
9 sOmAum	1S7 1	1- 7	1. S	1. S	146	4RC.	ql w
9 sOmAum	1S6 1	- CSC	- 7. C	- CC2	- C2S	1R02	ql w
9 sOmAum	111 1	1C66	171C	171.	1766	4R6S	ql w
9 sRqAum	4- 1	4C014S	4CC44.	4C1061	4C611.	SR0C	ql w
9 sRqAum	44 1	7- 74C74	7- 2- 4. 6	71- 7714	7272417	1R .	ql w
9 srbon	12 1	672- 10C	01- S6- 1	01- 71. .	0S- S6. .	2R 6	ql w
9 srbon	12 2	70611	72672	70476	7. C26	- R20	ql w
9 GRorAne	- . 1	1246C. 22	1. 0C- 11C	17- S. 2C-	1. . 2264.	17R76	ql w
9 GRorAne	- . 2	1. 10- C	1. . 2. C	16277.	1. 6627	- R64	ql w
9 GromAum	. 2 2	4- S2.	42761	41614	42. SS	1R72	ql w
9 obsR&	. C 2	42106	41C07	4- S17	42- C1	1R S	ql w
9 ol l er	6- 2	7C16.	77S60	CS2- .	7C1. 6	1R22	ql w
t EwI rowAum	1. 6 1	0- - C-	02211	0- - C4	02CCC	SRC-	ql w
t EwI rowAum	1. 6 2	- S161	- S417	- S114	- S2- 1	SR 4	ql w
UrbAum	164 1	614. 1	6S622	. C667	6S. 7S	1R40	ql w
UrbAum	164 2	2- . 27	241. 2	242S.	2- C62	1R 0	ql w
HsOoRnAum	16S 1	6- - 67	6. C71	64624	646. 7	2RS2	ql w
HsOoRnAum	16S 2	- S072	2C. - C	- S1C7	- S10-	2RS6	ql w
hoRnAum	16. 1	7621771	C762007	1SS20CC2	C. S4210	7RSC	ql w
hoRnAum	16. 2	41C2261	426- 602	41S- 71C	4176. 74	1RC1	ql w
DnOAum	11. 1	62C- 770	0S1C. 26	021S176	67412SS	0RS0	ql w
DnOAum	11. 2	C. 00C4	C7SSS.	C- 116.	C. 6- 22	2R 6	ql w
Don	. 4 2	- 2- CC04	- 24S- . 7	- 21. - . 4	- 2- 17C.	SR44	ql w
Don	. 6 2	. 7S- 6. . 4	. 747S00.	. 72100- S	. 724. S2S	SR 7	ql w
Don	. 0 2	1. SC62.	140. 77.	1. S7CS4	14C71- 7	1R2C	ql w
KrEI &on	7- 1	- 4S	- SC	- 11	- 2S	. R4-	ql w
LesO	2S6 1	- 17. 6C	- 12S42	- S7121	- 12C11	1R6C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Ren&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J26JSS	t s&sMRe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	98p1	98p2	98p-	98py esn	98pFpt	5nA&w
LesO	2S0 1	2621- .	2. 00- S	2. CS71	2. C64C	SR70	ql w
LesO	2S7 1	12- 144C	1210166	121616C	1221. C.	SR0S	ql w
LA&GAum	6 1	24. 604.	261- 4C0	262CC- S	2. 66024	- R02	ql w
y sgnewAum	24 2	1. 4- C64	1470S71	1. S1427	1. 1S724	1R06	ql w
y sngsnewe	. . 2	0- S011	0- 7S- 0	0- . 6- -	0- 40C4	SR.1	ql w
y oPEbOenum	C4 1	16117	1. 77.	160- 6	16246	2R01	ql w
y oPEbOenum	C. 1	646S	676S	671S	601S	- R2.	ql w
y oPEbOenum	C6 1	CS4.	7027	C. . -	C1SC	4R.0	ql w
y oPEbOenum	C0 1	- 0C2	4SS1	44S1	4S6.	0R61	ql w
y oPEbOenum	C7 1	1111-	C72C	1S42C	1S4. 0	6R14	ql w
NeoOEmAum	1. S 1	11C64C	110SC-	11. - 02	110- 01	1R7-	ql w
NeoOEmAum	1. S 2	- . 027	- . 206	- . 0C4	- . . CC	SR0C	ql w
NAqkeP	6S 2	270C6	2C140	2C. 10	2C1. -	1R24	ql w
8 GowI Goruw	- 1 2	4- C2	4S60	41. C	42S6	- R0C	ql w
8 o&swwAum	- C 2	47C- 2-	472C6S	47. 144	47. 7SC	SR60	ql w
F GoOAum	1S- 1	6262. 46	6771C6.	0SS- 2C7	601. C- 6	. R02	ql w
F GoOAum	1S- 2	- 2- 1C6-	- - 242S-	- 16606.	- 24SC00	2R44	ql w
pqsnOAum	4. 1	4S60C1C	4. - 6. 1S	4. . 1SC2	4- 7. 10-	6R20	ql w
pqsnOAum	4. 2	14. 17C	14C1- 4	141C. 0	14. 420	2R40	ql w
pe&enAum	72 1	211	262	2- C	2- 0	1SR7S	ql w
pe&enAum	00 2	1- S	160	140	147	12R42	ql w
pe&enAum	07 2	11-	114	1- S	11C	7RS2	ql w
pAAqon	27 1	1SC6C41C	11S4. S2-	1SCC06SC	11SS4S10	SR.	ql w
pAPer	1S0 1	24. C	2- . S	22SC	2- - C	. R6	ql w
pAPer	1SC 1	2- . C	210.	2S42	21C2	0R2.	ql w
poOAum	2- 2	. - - - 1	. 2S. 2	. 111.	. 2166	2R1-	ql w
p&ona&um	76 1	2S71. .	2S07S6	2S670.	2S0612	SR.2	ql w
p&ona&um	77 1	174- 6C0	1CS7- 0S	17. - 21C	176742C	1R70	ql w
pulPur	- 4 1	2C. - . S	2C000S	2C6S0C	2C64SS	SR42	ql w
i erbAum	1. C 1	7C424S0	C77. 24S	1S2- - - 66	C670SS4	6RCS	ql w
i erbAum	1. C 2	411. 044	4200727	- C. - 72.	411. 0CC	- RC4	ql w
i GsPAum	2S- 1	- . 60	- 6. C	- - 26	- . 10	4RCS	ql w
i GsPAum	2S. 1	72C.	7276	710S	72. S	SR7.	ql w
i An	117 1	C2S-	77- 6	C1. -	CS64	2R1C	ql w
i A&snAum	40 1	1S221-	1S1- 4S	1SSS- 1	1S11C.	1RSC	ql w
5 rsnAum	2- 7 1	. - 7CS	. 4S16	. 4- 74	. 4SC0	SR40	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 12	Dw&umne&Nsme:J	8 7
9 Aen&psml Re:D :J	y h SM67	t AR&on:Msq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J26JSS	t s&sMAe:Nsme:J	SC. c F UMRO

8srsme&er	y sww	9 8p1	9 8p2	9 8p-	9 8py esn	9 8pFpt	5 nA&w
VsnsOAum	. 1 2	00411	06077	0. 72C	06606	1RS4	ql w
Y&erbAum	102 1	1C- C7	2SS72	1C17C	1C. . 0	2R C	ql w
Y&erbAum	102 2	CS70	C26.	C- . -	C2- .	1R40	ql w
Y&erbAum	106 1	1- 066	1- C04	1- 44C	1- 0- S	1RC-	ql w
Y&erbAum	106 2	10- - 4	1027C	1647-	10S- .	2R71	ql w
Y&&Aum	7C 1	12S- 20S-	1- - 0C1- 7	1- 0S- SC4	1- S- 7- 12	6R0C	ql w
Y&&Aum	7C 2	146S- 16	147- S6.	1- 7C626	1444- - 6	- R 0	ql w
ZAnq	66 2	0S270	6C0- S	0SS6C	0SS2C	SR4S	ql w
ZAqonAum	CS 1	- 4761	- - - 4C	- - 0SS	- - C0S	2R -	ql w
ZAqonAum	C1 1	026S	0620	0. 1C	046C	2R 2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 1-	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67&	&8mTmC:MwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCmb	20 2	. 17076	. 27a67	. S7261	. 17a- 7	1R11	dDl
qCTb nCE	121 1	- 6a.	- . 74	- a06	- 0- .	aR30	dDl
qpl r Ccl	0a 2	271-	20a7	26. a	20aa	2R14	dDl
Bwpcmb	1- a 1	- 71. 61	- 7. 0aS	4SS00-	- . S727	2R42	dDl
Bwpcmb	1- 0 1	60. 2. 6	6. a4. 0	6. 6624	6. S402	1R4S	dDl
Br pE8mb	. 1	27S1	20- .	27- 6	20. 2	1R30	dDl
Bdl b mTG	2S. 1	602704S	6742216	6. 0SS00	6740S11	1R36	dDl
Bdl b mTG	2S. 2	- 4a060-	- 146S. a	- 10a4S6	- 2a. 02a	aR27	dDl
Bpmb cCr	71 1	02S2	671S	0020	0246	6R a	dDl
9 wob cmb	1S7 1	12.	16-	160	1a-	1- R4a	dDl
9 wob cmb	1S6 1	- . 06	4- a1	- 760	4S6a	6R24	dDl
9 wob cmb	111 1	1727	17a1	1. S4	1761	2RS7	dDl
9 w8lcmb	4- 1	47- S0a	4. 4. 4.	4. 40aS	4. S. 2a	1R 7	dDl
9 w8lcmb	44 1	726SaS-	7- 6. 17.	7a61107	7- . 6. a0	1R71	dDl
9 wpenC	12 1	6. 742a4	01- 1S- 0	0- 6- - S4	01a. a- 2	2R60	dDl
9 wpenC	12 2	767- .	7aS12	7a6S7	7a72S	1RS.	dDl
9 G8npCr	- a 1	107. 160a	21- 0. S46	2- 666- - .	2S. 0. S2S	1- R76	dDl
9 G8npCr	- a 2	104- 47	17- 2. .	17642.	171- a.	- R46	dDl
9 Gpmb cmb	a2 2	420. 4	4- 02S	4- 7SS	4- 4- 7	1R2.	dDl
9 new8T	a. 2	4- 4. 6	4- 640	4- 17.	4- 444	SRa4	dDl
9 nDDr p	6- 2	. 11- S	. S7. .	. 1624	. 1217	SR41	dDl
&El Dpnl cmb	1a6 1	6072-	021. a	02. - -	0S. 74	- R7.	dDl
&El Dpnl cmb	1a6 2	2. 6- 6	- Sa17	2. 406	2. 700	1R77	dDl
Upecmb	164 1	a. 20a	622- S	6S6Sa	6S0S-	2R44	dDl
Upecmb	164 2	24- a6	24- 0.	2a11S	2461a	1R04	dDl
Hwon8Cmb	16S 1	64616	6a- 76	6610-	6a- . 2	1R1.	dDl
Hwon8Cmb	16S 2	2. 6. -	- Sa72	2. 06S	- SS12	1R6a	dDl
h n8b cmb	16a 1	. 610S- 6	. 71410a	1SS0- a17	. 7- 4. 1S	2R -	dDl
h n8b cmb	16a 2	4417. 44	- . . 762-	41640. 4	41. 412S	aRSa	dDl
tCocmb	11a 1	01777SS	0S62076	026- . . 4	010176S	1R42	dDl
tCocmb	11a 2	. . 4a00	. 121S2	. 46S62	. aS. 14	4R 6	dDl
tpnC	a4 2	- - 6S111	- - 166- 4	- - 4aa06	- - 4S004	SR66	dDl
tpnC	a6 2	a77. 1SSa	a. 7- . 4S0	a70aa20a	a. 1617. 6	1RSS	dDl
tpnC	a0 2	1a- S1aa	1a20016	1a14aSa	1a2412a	SRaa	dDl
KpEDTnC	7- 1	- 26	2. 4	- - 6	- 1.	6R 0	dDl
Lr wo	2S6 1	- 1- 4- 6	- 147. 0	- 16126	- 1472S	SR4-	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 1-	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67&	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:10.J27.Ja6	&wTwMv8 :u wb r :J	S. 6qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	2a6a4a	2a6. a-	2a6. a1	2a6716	SR8S.	dDl
Lr wo	2S7 1	121S624	12- 1022	122114a	1221164	SR76	dDl
LcTGmb	6 1	26- 242-	26S4- 1a	2014472	26aS4S0	2R16	dDl
y wgCr l cmb	24 2	1aS- . SS	147a- 70	1470. - 4	14. 24S0	SR60	dDl
y wCgwCr l r	aa 2	04- 100	0a. 40.	0441. a	047. aS	1R22	dDl
y n8Eeor Cmb	. 4 1	16- 17	1a. 06	16- 00	16224	1R -	dDl
y n8Eeor Cmb	. a 1	6100	616S	60a2	6- 6-	aR S	dDl
y n8Eeor Cmb	. 6 1	77- 6	7. 61	. 00.	. 1. 2	aRa0	dDl
y n8Eeor Cmb	. 0 1	41a.	- . 26	- 006	- . a-	4R7.	dDl
y n8Eeor Cmb	. 7 1	1S121	1S0. 6	1S62.	1Sa1a	- R a	dDl
u r noEb cmb	1aS 1	11- S61	1106a.	11. 447	11602-	2R72	dDl
u r noEb cmb	1aS 2	- a404	- a. 77	- a246	- aa6.	1RS0	dDl
u cdkr 8	6S 2	2. . 72	- S176	- S- - 2	- S160	SRa7	dDl
NGhl DGhpml	- 1 2	4S42	- . - 4	4174	4Sa-	- RS.	dDl
NnTwl l cmb	- . 2	47272.	470S60	4. 1S. 6	476. . 0	SR7a	dDl
F Ghocmb	1S- 1	67006SS	671- 6a6	0171. 70	6. a0047	2R7-	dDl
F Ghocmb	1S- 2	- - 64. 14	- S24710	- 1- a1. S	- 104. 04	aR46	dDl
l dwCocmb	4a 1	4a0. a67	4447624	47. 77S2	4642- - 1	4R .	dDl
l dwCocmb	4a 2	1a2606	1- 0a6a	14- 6. a	14464a	aR2a	dDl
l r 8 Ccmb	72 1	10S	- 21	2S2	2- 1	- 4R4-	dDl
l r 8 Ccmb	00 2	11-	14-	1- 0	1- 1	12RS1	dDl
l r 8 Ccmb	07 2	1S4	1Sa	1Sa	1Sa	SRaa	dDl
l c8dnC	27 1	11Sa472.	11- 204- 0	1116S- 01	1117S70.	1R2-	dDl
l c8vr p	1S0 1	2460	24aS	22SS	2- 02	6R S	dDl
l c8vr p	1S. 1	2- S.	2274	22- 4	220a	1R67	dDl
l nocmb	2- 2	a- 171	a21a2	a1. - a	a2422	1R20	dDl
l TpnCTcmb	76 1	2S4747	2S- a42	2S0. 7-	2Sa4a7	1R11	dDl
l TpnCTcmb	77 1	177SS. 2	17. . a17	1. SS042	17. - 4a1	SR61	dDl
l m8mp	- 4 1	2. 6- S7	2. . a42	- S- 27a	2. . 012	1R16	dDl
Ar pecmb	1a. 1	1SSa20- S	. 7S7S70	1S46S6a6	1S1S01a7	- R26	dDl
Ar pecmb	1a. 2	4- 44. 46	- . 27- 67	4S07244	4110176	aR12	dDl
AGw8cmb	2S- 1	- 6. 2	- 4a1	- 4S.	- a10	4R a	dDl
AGw8cmb	2Sa 1	74S-	71a-	702S	742a	- R 0	dDl
AcC	117 1	76a-	7076	. 42S	7. a-	4Ra7	dDl
AcTwCcmb	40 1	. 767S	1SS. 4S	1S1606	1SS4- 2	1Raa	dDl
5 pwCcmb	2- 7 1	a4a- a	a6620	aa0S6	aa62-	1R77	dDl

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Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 1-	tCl Tpmb Cr T:u wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67&	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J27Ja6	&wTwMt8 :u wb r :J	S. 6qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	00. . 2	00. 64	006a6	00701	SR24	dDI
YTTr pecmb	102 1	17aaa	1. 6S0	1. 6a0	1. 20-	- R2-	dDI
YTTr pecmb	102 2	. SS-	. 60S	. a- 1	. 4S2	- R04	dDI
YTTr pecmb	106 1	1- 404	1- 441	1- a16	1- 400	SR27	dDI
YTTr pecmb	106 2	102S6	101- 4	10- - 4	10224	SRa.	dDI
YTTpcmb	7. 1	1- 66120S	1- aS7400	14112. 01	1- 06S. S6	2R27	dDI
YTTpcmb	7. 2	1a22416	1206141	1- 0SS2.	1- 7. a2.	7R 4	dDI
ZdCd	66 2	01. 21	01. S7	01044	017a7	SR14	dDI
ZqpdnCcmb	. S 1	- - aa7	- - a. 1	- - 0. 2	- - 640	SR 7	dDI
ZqpdnCcmb	. 1 1	04S2	0- 00	06S2	0461	1R3a	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
ARminium	23X2	10 4R	13R- - 3	130 22	1011- 6	2U12	cpw
Antimony	121X1	R63	0 0	013	001	0U3R	cpw
Arwenic	3 X2	23	4	4R	4O	2U13	cpw
Bsrium	1- X1	346RR	3 032	30R14	364R	2U04	cpw
Bsrium	1- 3X1	1- O0 0	142422	1- 603	1- 6310	4U2-	cpw
BeryRium	RX1	61	64	6O4	36	4U14	cpw
Biwmuth	2ORX1	32O4261	6R1 302	6332 2O	6R64100	- U16	cpw
Biwmuth	2ORX2	24- 010O	- 041O6O	- 2041- 4	- 1033R1	22U16	cpw
Bromine	01X1	1R-	40R-	4 OR	406	3U04	cpw
Msdmium	1O0X1	2R	31	2R	4-	U06	cpw
Msdmium	1O6X1	- 3 1	- R04	- 6 1	- 3R	4U 1	cpw
Msdmium	111X1	60O	641	64	6	- U20	cpw
MsRium	4- X1	R4O26	R3 - 6	R3RR-	R6 10	2U2	cpw
MsRium	44X1	1662ROO	163 O3O	131300	160 200	1U31	cpw
Msrbon	12X1	- 2 O- 60	- - 6- 013	- - - 4 4	- - 22 46	1U0R	cpw
Msrbon	12X2	41463	4O640	4O00-	4ORRR	1UO-	cpw
MhRorine	- X1	0040- 23	R1O426-	RO64461	ROO 604	1U -	cpw
MhRorine	- X2	6OO63	6O311	6O311	6O4R6	OU61	cpw
Mhromium	2X2	R126	RO6-	R 3	R24R	2URO	cpw
MobsRR	RX2	03 -	046R	0366	066-	1UR4	cpw
Mopper	6- X2	1R126	1043R	1063R	10361	1U33	cpw
Dywprowium	1 6X1	14- 41	141 O	141R1	14223	OU31	cpw
Dywprowium	1 6X2	6100	001	3R0	R 6	- U4	cpw
Frbium	164X1	1OR31	11614	11043	11433	- UR	cpw
Frbium	164X2	4011	4321	46R1	4341	1U 2	cpw
GsdoRhium	16OX1	11632	12R2-	1- 124	12 3-	6U26	cpw
GsdoRhium	16OX2	R40	R20	6- O	6O6O	- U O	cpw
9 oRhium	16 X1	1O2R42R0	R3R1421	R 2 106	R03O- O2	- URR6	cpw
9 oRhium	16 X2	- O4O242	4R6- O44	41- 664	4O46- 13	2- U04	cpw
Indium	11 X1	3116O R	31O3360	60O2- 1O	3OO0312	2U	cpw
Indium	11 X2	3O631	11- R R1	R643- -	R- 3O1-	2- U24	cpw
Iron	4X2	62- - -	R- 4- 1	6O2233	6O6- 40	2U -	cpw
Iron	6X2	11R1334	116- R6	11 21463	116R2R 6	1U34	cpw
Iron	3X2	20262R	23- 3- R	23 O6R	233146	1U3-	cpw
Krypton	0- X1	20O	2- R	233	26	0U31	cpw
Lesd	2O6X1	6OO0R	61001	61- 04	61110	1U 1	cpw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Lesd	2O3X1	O-14	21	4RR0	O010	2UJO	cpw
Lesd	2O0X1	2-3-31	24-36-	2-RR2R	24O- 4	1UJ4	cpw
Lithium	6X1	2632-1O	2 611OO	2 124-R	2 01R O	-U13	cpw
Hsgnewium	24X2	2ROO634	23341O	204O3	204O -	2UJ-	cpw
Hsngsnewe	X2	1 O 20	1430-1	1 O-0O	14R 0O	1U01	cpw
HoRybdenum	R4X1	2ROO	- - 04	-1 R	-140	3U6R	cpw
HoRybdenum	R X1	1OO0	12R2	110-	1161	12UJ1	cpw
HoRybdenum	R6X1	1013	160-	1063	130R	UJO	cpw
HoRybdenum	R3X1	02	60-	R0-	0-1	10U03	cpw
HoRybdenum	R0X1	1R63	2213	2O R	2O01	6U00	cpw
Neodymium	1 OX1	22- 2	2-R22	2-421	2-2-2	-U4	cpw
Neodymium	1 OX2	3O3	3O-2	3O4R	3O 2	OUJ1	cpw
NickeP	6OX2	6-10	6O40	61R0	6100	2U1R	cpw
8howphoruw	-1X2	1OOO	042	R 0	R- -	0U3R	cpw
8otswwium	-RX2	1O6-36	1OO- 0	1O-3-1	1O-400	2UR1	cpw
Ehodium	1O-X1	323OR31	311614-	6063-40	3O04021	2U03	cpw
Ehodium	1O-X2	2-R41 6	-3ROO 3	-2163 -	-1- -6 6	22UJR	cpw
Scsndium	4 X1	4300 13	4 22 O-	4 13 R1	46OR -3	-UJ6	cpw
Scsndium	4 X2	1O 6O0	160- -3	14-233	1-RO34	22U3O	cpw
SeRenium	02X1	-O	4	14	-O	2U0-	cpw
SeRenium	33X2	2O	- -	2-	26	23U1	cpw
SeRenium	30X2	-0	-6	-	-6	4U2O	cpw
SiRcon	20X1	22 4411	2-1-21R	2-44R64	2-O41R0	1URR	cpw
SiRver	1O3X1	0	4R2	43	O0	0U63	cpw
SiRver	1ORX1	2	0-	R2	63	6U41	cpw
Sodium	2-X2	22410	2162	22310	222 4	2UJ4	cpw
Strontium	06X1	-00-0	4OR1R	-R016	-R0 3	2U61	cpw
Strontium	00X1	- - 06-	- 2212	- 4224	-40- 3	2U4-	cpw
SuRur	-4X1	23O414	231 O0	2314 R	231123	OU2-	cpw
Terbium	1 RX1	1O12OOR2	1OO-23-O	R3264 4	RR R3 R	2U00	cpw
Terbium	1 RX2	-O66326	40R11RR	41O3 - -	4O2101R	22U36	cpw
ThsRium	2O-X1	0R2	0 0	0 0	03O	2U21	cpw
ThsRium	2O X1	1313	132	1ROO	1301	U02	cpw
Tin	110X1	24R2	2 04	21OR	2-R	1OUJ2	cpw
Titsnium	43X1	1R 0R	1R20O	2OOO6	1R62	1U06	cpw
Crsnium	2-0X1	1O421	111O	1O043	1O3R1	-U2O	cpw

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Inst Id :P8

LB:Number:J	LB1264O3	5 perstor:J	aswl sP
Lsb:SsmpRe:ID:J	5 - 440X12L7	Inwtrumnet:Nsme:J	8 0
MRent:SsmpRe:ID:J	H9 O. 60L	DiRation:. sctor:J	
Dste:&:Time:Acquired:J	2O2- XO3X12:13J- 1J 4	Dsts. iRe:Nsme:J	OR3AEF. Ud

8srsmeter	Hsww	M8S1	M8S2	M8S-	M8SHesn	M8SESD	Cnitw
Vsnsdium	1X2	1 R2	1 - 60	1 43	1 430	O.32	cpw
Ytterbium	132X1	- 626	- 013	4226	- 0RO	3U00	cpw
Ytterbium	132X2	10- R	1R32	1330	106-	U4	cpw
Ytterbium	136X1	- - 1	- 326	- - 42	- 43-	6U1	cpw
Ytterbium	136X2	R23O	142O2	1- 12-	121RR	21U26	cpw
Yttrium	0RX1	1- 4 RO- 3	12R324O-	124R3RO3	12R3644R	- U3O	cpw
Yttrium	0RX2	R4- 0	1 0R632	126- 0 6	126 3O4	2 U2	cpw
Zinc	66X2	14000	14203	1- 0RO	14-	- UO	cpw
Zirconium	ROX1	664-	6R1O	3O-	606-	2UR2	cpw
Zirconium	R1X1	1 13	1 O0	14 O	14R2	2U44	cpw

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LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 14	tCl Tpmb Cr Tuwb r :J	N7
9 8r CTl wb D8 :t&:J	y h SM67I	&8mTmC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J-4Ja2	&wTwMv8 :uwb r :J	S. 7qF UMR

Nwpwb r Tr p	y wl l	9 Nl 1	9 Nl 2	9 Nl -	9 Nl y r wC	9 Nl Fl &	5 CdT
q8mb cCmb	20 2	. . 671.	1SSS7S2	. 762S.	. . 461S	SR06	dDl
qCTb nCE	121 1	1S22a.	1Sa0. 2	1S420-	1S41S7	1R0S	dDl
qpl r Ccl	0a 2	- . Sa	- . - 1	- 7. a	- . 1S	SR47	dDl
Bwpcmb	1- a 1	76. 222	772. S7	. SS4Sa	774107	1R00	dDl
Bwpcmb	1- 0 1	1644712	1606. 77	16. 6114	16026- 7	1Raa	dDl
Br pE8mb	. 1	17S. 6	17S2-	107S0	10. 0a	SR74	dDl
Bdl b mTG	2S. 1	67- 1- 4.	677S710	6. 17176	6706074	SR6-	dDl
Bdl b mTG	2S. 2	- 2- 2a6.	- 2- . 742	- 24- 21-	- 2- 7a42	SR10	dDl
Bpmb cCr	71 1	6. S2	00. 4	0700	0a24	0R1.	dDl
9 wob cmb	1S7 1	1S2a	1SaS	111-	1S6-	4R24	dDl
9 wob cmb	1S6 1	aa6S	a606	aa06	a6S4	1R1-	dDl
9 wob cmb	111 1	14. 14	147a7	1a. - 4	1a2- a	- R 7	dDl
9 w8lcmb	4- 1	4. a- 22	4. 0S12	4. a27S	4. a702	SR2S	dDl
9 w8lcmb	44 1	7- - . 2S7	7- 76- a1	72. a604	7- 4S411	SRa4	dDl
9 wpenC	12 1	6044200	6. 2- 074	0Sa1027	6. S6a. 6	2R24	dDl
9 wpenC	12 2	71- 41	7- - 11	72774	72a12	1R26	dDl
9 G8mpCr	- a 1	1a1a12Sa	1720S- 14	2S64S- 1a	17S2S611	1aR27	dDl
9 G8mpCr	- a 2	1aa. S.	16S020	16a261	16S6- 2	2R 1	dDl
9 Gpmb cmb	a2 2	11- . S-	11S06a	111026	1121- 1	1R4-	dDl
9 new8T	a. 2	- 4a6a0	- 46a- 1	- 4S42-	- 442S-	SR 6	dDl
9 nDDr p	6- 2	21- 02S	2147- -	211- 6a	21- - S6	SR7-	dDl
&El Dpnl cmb	1a6 1	01aSS	022S-	0171S	017- 7	SR4.	dDl
&El Dpnl cmb	1a6 2	2. a2.	2. . . S	- S2a7	2. . 26	1R2-	dDl
Upecmb	164 1	6S262	6S4a4	6S2- 0	6S- 17	SR2S	dDl
Upecmb	164 2	24- - 2	24- a2	24aa6	24414	SRa1	dDl
Hwon8Cmb	16S 1	6400a	62. S0	6aS7a	642a6	1R7-	dDl
Hwon8Cmb	16S 2	2. . - S	2. . 40	2. 666	2. 747	SRa-	dDl
h n8b cmb	16a 1	. 671017	. 7446a-	. 7a7- 46	. 0. 4. S6	1RSS	dDl
h n8b cmb	16a 2	41. 6- 7S	414. 1- S	4- S2a0-	4216S27	1R76	dDl
tCocmb	11a 1	6. Sa60.	0S21- 4S	01- - aS7	0S2S106	1R62	dDl
tCocmb	11a 2	. 6SaS.	. aS- . 4	. 46a2.	. a2400	SR06	dDl
tpnC	a4 2	- 4S. 6S0	- - 6- SS7	- - S02- 7	- - a. . a1	1Ra-	dDl
tpnC	a6 2	6120- . 1.	6S7S0461	6S4. . aaS	6S76S- 1S	SR64	dDl
tpnC	a0 2	1a. . Sa2	1a0a260	1a674. S	1a7S. - 6	1RS2	dDl
KpEDTnC	7- 1	- S2	- 2a	- a6	- 27	7R2-	dDl
Lr wo	2S6 1	- 22. 7-	- - Sa1S	- - 2644	- 27012	1Ra4	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 14	tCl Tpmb Cr T.u wb r :J	N7
9 8r CTl wb D8 :t&:.J	y h SM67I	&c8mTcnC:MwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:10J-4.Ja2	&wTwMv8 :u wb r :J	S. 7qF UMR

NwpwbrTrp	ywl l	9NI 1	9NI 2	9NI -	9NI yrwC	9NI Fl &	5CcT
Lr wo	2S0 1	20S216	201116	20a. 4.	202420	1R1-	dDl
Lr wo	2S7 1	12. aa0a	12. 406S	1- Sa662	12. 7666	SR40	dDl
LcTGcmb	6 1	2a1004.	26S4462	26212a.	2a711a0	2R1a	dDl
y wgCr l cmb	24 2	1a4- S7a	1a- S. 2a	1a1aS72	1a2. 6. 7	SR.2	dDl
y wCgwCr l r	aa 2	74. 072	744- . a	74S0. a	744. . 1	SRa4	dDl
y n8Eeor Cmb	. 4 1	1a74-	1646S	16. 76	164- S	- R47	dDl
y n8Eeor Cmb	. a 1	6S67	a7. -	6S- a	a. . .	1Raa	dDl
y n8Eeor Cmb	. 6 1	7a07	. aS4	. a. a	. 226	6R1S	dDl
y n8Eeor Cmb	. 0 1	4SS.	- . S1	4S- 4	- . 71	1R07	dDl
y n8Eeor Cmb	. 7 1	1S4. 6	1S162	1Sa6-	1S4S0	2RS6	dDl
u r noEb cmb	1aS 1	110S26	11a40-	110010	1160- .	SR.7	dDl
u r noEb cmb	1aS 2	- a146	- aSS2	- aS- 2	- aS6S	SR22	dDl
u cdkr 8	6S 2	117a- 6	11a266	11a4S7	1164S-	1Ra.	dDl
NGhl DGhpml	- 1 2	- . - 4	4- . 2	4S. 2	414S	aR62	dDl
NnTwl l cmb	- . 2	a1- Sa0	aS4a2S	a1aSS6	a1S761	1RS.	dDl
F Ghocmb	1S- 1	671100-	6. a- 4S6	672a76S	676- 67S	1R14	dDl
F Ghocmb	1S- 2	- - S07aa	- - 111. 7	- 210. 4-	- 207. . .	1R61	dDl
l dwCocmb	4a 1	4a0a7- a	4a7a2a2	4a74- 67	4a71717	SR11	dDl
l dwCocmb	4a 2	146. a4	140S00	14- 4- a	14a722	1R42	dDl
l r 8 Ccmb	72 1	2- 12	22a1	24S1	2- 22	- R2a	dDl
l r 8 Ccmb	00 2	2S-	210	1. 0	2S6	4R.a	dDl
l r 8 Ccmb	07 2	27a	27.	- 26	- SS	0Ra4	dDl
l c&dnC	27 1	112S. . 02	11S200. 0	11202- a4	1110SS41	1R14	dDl
l c&vr p	1S0 1	62- 42	62- a.	62467	62- . S	SR11	dDl
l c&vr p	1S. 1	a. 1- 6	6S24.	a. 41-	a. a. .	SR.0	dDl
l nocmb	2- 2	60S77	672a2	602. 0	60a46	SR.2	dDl
l TpnCTcmb	76 1	2Sa1. 7	212144	2Sa1. 0	2S0a1-	1R -	dDl
l TpnCTcmb	77 1	17714a0	1. a7- . S	1. 40- 42	1. 2. S6-	2R16	dDl
l m8mp	- 4 1	- 112a0	- S. 7- 0	- 11. 72	- 11S2a	SRa	dDl
Ar pecmb	1a. 1	. 0044a1	1SS22SaS	1S1S46S0	. . 60S- 6	1R02	dDl
Ar pecmb	1a. 2	4SaS- 07	4SaS1. 6	414a10.	4S71. 17	1R4	dDl
AGw8cmb	2S- 1	a7060	a. 7. 0	6S71S	a. 72a	1R01	dDl
AGw8cmb	2Sa 1	141240	142. 4S	144- 1a	1427- 4	1RS7	dDl
AcC	117 1	12a14	1201a	12747	126. 2	1R.2	dDl
AcTwCcmb	40 1	. 20aS	77a6a	7020a	7. a- S	- R2S	dDl
5 pwCcmb	2- 7 1	a40. 4	a- 421	aaS- 0	a4410	1R6S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 14	tCl Tpmb Cr Tu wb r :J	N7
9 8r CTI wb D8 :t&:J	y h SM67I	&8mTcnC:MwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J-4Ja2	&wTwMt8 :u wb r :J	S. 7qF UMRb

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	a1 2	2S0- 02	2S- 4a.	2S21- 4	2S4- 22	1R -	dDl
YTTr pecmb	102 1	1. 1. 7	1. 0. S	1. . a0	1. 647	2RS-	dDl
YTTr pecmb	102 2	. S2a	. 1a.	. S2S	. S67	SR70	dDl
YTTr pecmb	106 1	1- - 6a	1- 6. .	1- a66	1- a4-	1R24	dDl
YTTr pecmb	106 2	10a- 4	10- - .	10- 07	10410	SRa.	dDl
YTTpcmb	7. 1	1- S42S7.	1- . S2a. 0	1- aa1a67	1- 4. 70a1	- R21	dDl
YTTpcmb	7. 2	14- 062.	14a- 70.	1427a7S	144SS- S	SR7.	dDl
ZcCd	66 2	1S6- 1.	1S762S	1S7- a7	1S006a	1R10	dDl
ZcpdnCcmb	. S 1	- 4167	- 4a7a	- 41a1	- 4- S1	SR02	dDl
ZcpdnCcmb	. 1 1	0244	7107	001.	001-	6RSa	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 S:	tCl Tpmb Cr TLu wb r Ja	N7
9 8r CTL wo D8 Jt&Jal	y h SM 0	&8mTmCJMwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR

Nwpwb r Tr p	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb cCcmb	20 2	7- 06S4	72. 6: -	741: . 1	7- 6272	SR0-	dDI
qCTb nCE	121 1	4074	46S1	47- 4	404S	2R .	dDI
qpl r Ccl	0: 2	47- 7	4611	4607	40S.	2R47	dDI
Bwpcmb	1- : 1	: 2- 0: 2	: - - 162	: 27S24	: 27- 1-	SR7.	dDI
Bwpcmb	1- 0 1	. 1270:	. 44. : :	. 1. 2- 4	. 2: 677	1R7-	dDI
Br pE8mb	. 1	206:	276:	2022	2074	2R6-	dDI
Bdl b mTG	2S. 1	67S2. 01	6746: 0:	0S. S7S4	6. 1- 4: S	2R24	dDI
Bdl b mTG	2S. 2	- 2. 04SS	- 4- . 6: 0	- - : 7426	- - 6: 161	2R12	dDI
Bpmb cCr	71 1	74S-	7- 07	. 1- 0	76- .	4R .	dDI
9 wob cmb	1S7 1	22:	246	1. 6	222	11R S	dDI
9 wob cmb	1S6 1	41S1	4- 60	4- . 2	4270	- R0 0	dDI
9 wob cmb	111 1	1. 4S	17. 4	1. 4S	1. 2:	1R 7	dDI
9 w8lcmb	4- 1	24- 4S4	24. 41.	24: S77	24: . 0S	1R26	dDI
9 w8lcmb	44 1	426. 170	42. 61. -	4202: 44	420. - S7	SR 4	dDI
9 wpenC	12 1	- 0S04S.	- 7- - 4S.	- 722241	- 070676	1R74	dDI
9 wpenC	12 2	4: 040	4: 0- S	4: : 2.	4: 66.	SR20	dDI
9 G8hpcCr	- : 1	174: 4266	224S66S2	24S7706.	2164. 70.	1- R 6	dDI
9 G8hpcCr	- : 2	10772S	17- - . 1	1. SS. :	1741S2	- RS7	dDI
9 Gpmb cmb	: 2 2	6S- 20	: . 6. 0	: 71S1	: . - 0:	1R -	dDI
9 new8T	: . 2	0: 67S	0- . . 1	04627	04066	1R14	dDI
9 nDDr p	6- 2	126172	12- . 4:	12: 6- S	12: 2: 2	SR -	dDI
&El Dpnl cmb	1: 6 1	60. 1:	6. 04.	67707	67740	1R -	dDI
&El Dpnl cmb	1: 6 2	27727	272- 0	27410	274. 4	1RS6	dDI
Upecmb	164 1	: 0S: 0	: 7S44	: 74- 7	: 0746	1R2-	dDI
Upecmb	164 2	2- 0- :	2- 2: 0	2- S7S	2- - : 0	1R4:	dDI
Hwon8Ccmb	16S 1	6144-	6- 160	61. 4:	6217:	1R4-	dDI
Hwon8Ccmb	16S 2	2. - : 6	2. 4: 6	2. S. 2	2. - S1	SR64	dDI
h n8b cmb	16: 1	. 40047.	. 6S07- S	. . : 2: 7-	. 60. - S1	2R 4	dDI
h n8b cmb	16: 2	4170S7.	441. 42:	420200.	42. - S. 0	2R04	dDI
tCocmb	11: 1	6. 6110:	01267: .	02- - 6S2	01S0212	1R -	dDI
tCocmb	11: 2	. 66. 0S	1SS- 06.	. 66S. :	. 07. 4:	2R2S	dDI
tpnC	: 4 2	- 0. - - 41	- 72: - 4S	- 721242	- 71- - S7	SR46	dDI
tpnC	: 6 2	0S1- S6S2	67- 61622	6. 1. S6- 2	6. 22061.	1R27	dDI
tpnC	: 0 2	17S4S. 0	1001. - 1	17S: - 06	10. - 7S1	1RS6	dDI
KpEDTnC	7- 1	- 4S	- 64	- 40	- : S	- R40	dDI
Lr wo	2S6 1	- - 0474	- 4: 4: 7	- 40- . 0	- 4- 446	1R -	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N7
9 8r CTJ wb D8 Jt&JaJ	y h SM 0	&c8mTcnCJMwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CcT
Lr wo	2S0 1	271: S2	27- 6. 4	270S00	274S. 1	SR.	dDI
Lr wo	2S7 1	1- 20- S0	1- - : 02:	1- : 4676	1- - . 2- .	1RS:	dDI
LcTGmb	6 1	2: SS1- 0	2: 061S4	26: : 0- 2	2: 00- 24	- RS2	dDI
y wgCr l cmb	24 2	1S22: 77	. . 10S6	1SS: . 17	1SS60- 0	1R 4	dDI
y wCgwCr l r	: : 2	1. . . 6. 6	1. 4S4. -	1. 0S1: 1	1. 0S114	1R S	dDI
y n8Eeor Cmb	. 4 1	2- 4. :	24071	24: 7S	24276	2R7:	dDI
y n8Eeor Cmb	. : 1	0120	0400	0600	0420	- R0:	dDI
y n8Eeor Cmb	. 6 1	11177	11764	110S:	11: 76	- RS:	dDI
y n8Eeor Cmb	. 0 1	4- 74	4. S.	4: 67	462S	: R00	dDI
y n8Eeor Cmb	. 7 1	1147.	11702	11: 02	11644	1R0-	dDI
u r noEb cmb	1: S 1	1S. 611	111. : 0	11107-	111110	1R17	dDI
u r noEb cmb	1: S 2	- 4467	- 2. 61	- 26. 0	- - - 0:	2R76	dDI
u cdkr 8	6S 2	4746.	47: 12	47016	47: 66	SR20	dDI
NGhl DGhpml	- 1 2	- 2. 2	- - - 4	- 6. 2	- 4- .	6R .	dDI
NnTwl l cmb	- . 2	- 2- 1SS	- - 2: 02	- 2: 6: .	- 20111	1R S	dDI
F Ghocmb	1S- 1	67: . 276	0S1. S62	01: S: 62	0SS. 6- 0	2RS7	dDI
F Ghocmb	1S- 2	- 2S4S6-	- - 74- S0	- 2- : S26	- 204466	2R 4	dDI
I dwCocmb	4: 1	461S011	40102- :	46. : - 12	460441.	1R2S	dDI
I dwCocmb	4: 2	144010	1: 4S12	146. 2.	147: : -	- R20	dDI
I r 8 Ccmb	72 1	411	4S1	42S	411	2R27	dDI
I r 8 Ccmb	00 2	12-	12-	1: 0	1- 4	14R 1	dDI
I r 8 Ccmb	07 2	1- :	11.	141	1- 2	7R64	dDI
I c&dnC	27 1	1S4240- 2	1S7S06. :	1S- 741: .	1S: - 7762	2R22	dDI
I c&vr p	1S0 1	2S- 4	2S: S	2S0:	2S: -	1RS2	dDI
I c&vr p	1S. 1	1. 74	210:	100:	1. 07	1SR12	dDI
I nocmb	2- 2	26S: 16	2: 4. : 0	2: 6622	2: 0- 6:	1R1	dDI
I TpnCTcmb	76 1	2S1: 21	2S174-	2S2: 02	2S1. 0.	SR20	dDI
I TpnCTcmb	77 1	17- 0: 6-	1746: 70	1707- - .	17: 416-	1R16	dDI
I m8mp	- 4 1	- - 01. 2	- - 71- 7	- 2. . S2	- - : S00	1R 4	dDI
Ar pecmb	1: . 1	. 0S2S12	1S10S0SS	1S- 6: S7S	1SS0. 264	- R 7	dDI
Ar pecmb	1: . 2	41- . - : 7	42716. 0	41- 6060	417: . 41	1R 7	dDI
AGw8cmb	2S- 1	- 1: .	- S60	- S60	- S. 7	1R01	dDI
AGw8cmb	2S: 1	0607	04: 2	046.	0: - -	1R60	dDI
AcC	117 1	117: 6	117S:	11. 7.	1177-	SR7S	dDI
AcTwCcmb	40 1	61SS:	6- : SS	61624	62S4-	2RS.	dDI
5 pwCcmb	2- 7 1	0- 0S6	04. : :	0446S	04- 04	SR7:	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 S:	tCl Tpmb Cr TLu wb r Ja	N7
9 8r CTL wb D8 Jt&Jal	y h SM 0	&8mTcnCJMwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J10a-0a S	&wTwMt8 Ju wb r Ja	S. . qF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	: 1 2	1SSS60	. 04S:	. 0742	. 74- 7	1R4:	dDl
YTTr pecmb	102 1	1716-	17- 21	176- S	17- 02	1R2.	dDl
YTTr pecmb	102 2	7. 42	76- 1	76. 2	70: :	1R77	dDl
YTTr pecmb	106 1	12. 2-	122: 6	1- 1: 0	1200.	- R66	dDl
YTTr pecmb	106 2	10: 60	1027.	10SS6	10270	1R62	dDl
YTTpcmb	7. 1	1- 22: - 0:	1- : 22. : S	1- 6. 071:	1- 472S40	1R00	dDl
YTTpcmb	7. 2	141. 412	14604: 0	1442771	144- 2: S	1R66	dDl
ZcCd	66 2	: 00- 1	: 6. . 7	: 6S. 1	: 6. 4S	1R44	dDl
ZqpdnCcmb	. S 1	: 64. .	: 6- : 6	: 04S2	: 60: 2	1RSS	dDl
ZqpdnCcmb	. 1 1	12- 64	121- 1	12. 4S	12407	- R 4	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	6y4262	6y17S4	647y4S	6y1y-y	SU44	ql w
cn&Amonh	121 1	4EyE	yS67	4E67	4EE7	1U21	ql w
crwenAq	0y 2	- 174	- S60	- 1E4	- 147	2U24	ql w
BsrAm	1- y 1	- 12- 2y	- 1676S	- 10EEE	- 1y027	SUEy	ql w
BsrAm	1- 0 1	y6217y	yy7ESy	y66y1S	y62y- 4	SU67	ql w
BerhPAm	E 1	2- 26	2- 7S	222S	2- SE	- Uy-	ql w
BAmu&G	2SE 1	6E7770E	0S07- 1y	60yy126	6E4S00-	2U4S	ql w
BAmu&G	2SE 2	- 1E0y42	- 117- 42	- 2- y101	- 17- 67y	1U70	ql w
BromAne	71 1	7276	7276	7461	7- 44	1U21	ql w
RsOmAm	1S7 1	277	- 42	2- -	277	17U74	ql w
RsOmAm	1S6 1	42E2	4SS1	4S- 4	41SE	- U7E	ql w
RsOmAm	111 1	- SS0	27y0	- 12S	2EEy	4U4S	ql w
RsRqAm	4- 1	242662	2- Ey21	2- 6SES	2- E424	1U0	ql w
RsRqAm	44 1	41E2EyS	4S00622	4S6E24y	411- 202	1U67	ql w
Rsrbon	12 1	00- y6- 4	7S67y07	711SE10	0E0101S	2Uy7	ql w
Rsrbon	12 2	E6006	E0471	E7- 70	E0y47	SU7-	ql w
RGRorAne	- y 1	1E6417ES	224y- 20E	2- E71717	22S2y662	EUEE	ql w
RGRorAne	- y 2	10y614	17S- - 0	171- S7	10ES76	1U0S	ql w
RGromAm	y2 2	422y2	42262	42S12	4210y	SU4	ql w
RobsR&	yE 2	- 4yyy	- 4y4y	- - 4y6	- 4176	1U7y	ql w
RoI I er	6- 2	700E-	70EE7	77611	771- 4	SU47	ql w
t hwI rowAm	1y6 1	yEE1E	61007	yEySE	6S4S2	2USS	ql w
t hwI rowAm	1y6 2	2y772	2y474	2y244	2yy- 0	1U26	ql w
. rbAm	164 1	4716-	4002S	4017y	4067E	1US-	ql w
. rbAm	164 2	1701-	1ESy0	1E2S0	17EE-	1U-	ql w
HsOoPAm	16S 1	y- 6S7	y4y7S	y- 0E-	y- EE-	SUE6	ql w
HsOoPAm	16S 2	2yy- 7	26122	2y4E4	2y017	1U6	ql w
9 oPmAm	16y 1	1SS7646E	1S111612	EESy0ES	1SS- 4624	1U12	ql w
9 oPmAm	16y 2	4101ESy	4S02277	412Syy4	4121y72	1U21	ql w
DrOAm	11y 1	02EE14y	0222210	0SE17S1	02S4- 77	1U4y	ql w
DrOAm	11y 2	E406y2	ESy70-	E42170	E- 1ES4	2U44	ql w
Don	y4 2	26- S- 77	2602702	2y446EE	261yE76	2UyS	ql w
Don	y6 2	47E- 227S	40620- 6y	466- 2E6E	400- S701	2U42	ql w
Don	y0 2	114S6E0	114- ySE	111760E	11- 42Ey	1U2S	ql w
KrhI &on	7- 1	- y4	- - 2	276	- 24	1SU6y	ql w
LesO	2S6 1	- E- 226	- EE- SS	- 7y70S	- E20EE	1U01	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lsb:psml Re:D :J	3 - 447 S6	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFy7	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- 24- y0	- 2- 7E2	- 21E- 4	- 2- - E4	SU4S	ql w
LesO	2S7 1	1y16ES4	1y46761	1y17002	1y20y1-	1U1S	ql w
LA&GAum	6 1	2677726	26- 664E	26Sy7S0	264- 061	1UyE	ql w
5 sgnewAum	24 2	0Sy724	014- S7	012- 21	01S710	SU62	ql w
5 sngsnewe	yy 2	4E212E	47y6E7	47246S	476062	1US1	ql w
5 oPbOenum	E4 1	10y4y	100S-	10662	106- 0	SU40	ql w
5 oPbOenum	Ey 1	607y	6- E-	606S	6646	- U S	ql w
5 oPbOenum	E6 1	E0Ey	E- 27	E712	E64y	2U7y	ql w
5 oPbOenum	E0 1	4- 10	4- - 4	4Sy1	42- 4	- U06	ql w
5 oPbOenum	E7 1	11SE6	1S7S4	1S446	1S072	- US2	ql w
NeoOhmAum	1yS 1	1S10y6	1S- 0yE	1S2702	1S20E6	SUE7	ql w
NeoOhmAum	1yS 2	- 1y00	- 1601	- Sy- 1	- 126S	2US2	ql w
NAqkeP	6S 2	217E0	221S4	2177S	21E6S	SUy0	ql w
8 GowI Goruw	- 1 2	0- 6E	0S1S	6E7y	0121	- US1	ql w
8 o&swwAum	- E 2	4E4SSS	yS40S7	4E2ES0	4E02Sy	1U 1	ql w
CGoOAum	1S- 1	02- 4676	0- 2- SS-	0S642- 1	02S0- S0	1U7-	ql w
CGoOAum	1S- 2	- 2- 7SS2	- S70- 02	- 2- S- - y	- 17y2- 6	2U66	ql w
pqsnOAum	4y 1	40- - - 17	46EE176	44Ey7y1	464207y	2U00	ql w
pqsnOAum	4y 2	14410y	1- 60- E	141667	14S761	2U6E	ql w
pe&enAum	72 1	1y6	172	222	170	10U7-	ql w
pe&enAum	00 2	1S0	1S0	12-	112	7Uy0	ql w
pe&enAum	07 2	E6	7E	7E	E1	4U42	ql w
pAAqon	27 1	E02S17E	E0- 47- E	E7- - 04S	E062E2-	SU6-	ql w
pAPer	1S0 1	- 2SS	- 7S1	- 0E2	- yE7	EUy0	ql w
pAPer	1SE 1	- 610	- 7E2	- - 06	- 627	0U1-	ql w
poOAum	2- 2	614Sy	62S0-	6S66S	61- 7S	1U1y	ql w
p&ona&Aum	76 1	104277	16E- 61	10yy67	10- S02	1U7E	ql w
p&ona&Aum	77 1	161- 2- 0	1y0Sy- 0	16Sy716	1yE6y- S	1U4-	ql w
pulPur	- 4 1	2E7y40	2E02- y	2E- 6S6	2E6462	SU76	ql w
i erbAum	1yE 1	1S2yE167	1S2y6Ey6	E0467y4	1SS706yE	2UE-	ql w
i erbAum	1yE 2	411EE2-	- E27y70	4S71404	4S4- - 27	2UyS	ql w
i GsPAum	2S- 1	2142	2- 74	2- yE	22Ey	yU0E	ql w
i GsPAum	2Sy 1	yy67	y4S1	y- S1	y424	2U47	ql w
i An	117 1	1- 64E	12EE7	1- - 24	1- - 2-	2U44	ql w
i A&snAum	40 1	E2ES1	E62E7	E4- - y	E4y11	1U7S	ql w
MrsnAum	2- 7 1	626Sy	6- 7Ey	64471	6- 66S	1Uy1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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RFen&psml Re:D :J	5 9 SFy7	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J41JS7	t s&sFAe:Nsme:J	1SSc C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	6y44y	64441	6- 47-	644y0	1Uy2	ql w
Y&erbAum	102 1	1yS- 4	1412y	1- 6EE	14276	4U00	ql w
Y&erbAum	102 2	66S2	0S7S	66- S	600S	- UE6	ql w
Y&erbAum	106 1	1S2E6	1S22E	1Sy- S	1S- y2	1Uy2	ql w
Y&erbAum	106 2	1y20S	1y- 71	1y0- 0	1y46-	1Uy7	ql w
Y&&Aum	7E 1	1- 722- 7y	1- 720y16	1- S1y116	1- yyySS6	- U4y	ql w
Y&&Aum	7E 2	1- 27S- 1	12y76EE	1- S- 770	12E6702	2U01	ql w
ZAnq	66 2	02E- S	040yE	0- 46E	0- 01E	1U27	ql w
ZAqonAum	ES 1	- 7y12	- 711E	- E171	- 76S4	1UJE	ql w
ZAqonAum	E1 1	70S-	77y-	7y27	76Ey	1U70	ql w

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RRen&psml Re:D :J	5 9 SFyh	t AR&on:Fsq&or:J	1
t s&e:T:i Ane:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAnAm	20 2	0hS206	07y- 1y	0h- 646	07h046	SUy-	ql w
cn&AmonE	121 1	41y1	42h2	40- 4	4- h2	6Uh-	ql w
crwenAq	0y 2	- h- 6	- hS1	4S4S	- hyh	1U7-	ql w
BsrAm	1- y 1	- h- - 42	- h1100	- hS4h-	- h1601	SU7	ql w
BsrAm	1- 0 1	676071	0SS21y	6hhS20	6hy- 41	1US0	ql w
BerEPAm	h 1	2744	27hy	2771	270-	SUh2	ql w
BAmu&G	2Sh 1	6h7S02h	02626hh	01h- 76-	014y064	2US6	ql w
BAmu&G	2Sh 2	- 21y144	- - 1077S	- - y66y2	- 2h6yyh	2U22	ql w
BromAne	71 1	7S1h	72h4	h20S	7y27	0U01	ql w
RsOmAm	1S7 1	277	- 21	201	2h-	7U6h	ql w
RsOmAm	1S6 1	44- 4	4- 60	4S10	420-	yU24	ql w
RsOmAm	111 1	- h17	- 0y4	- 7SS	- 724	2U2S	ql w
RsRqAm	4- 1	- 1610h	- 17yy0	- 162- S	- 16h77	SU4-	ql w
RsRqAm	44 1	y- 64- 01	y- 046h4	y2h6S46	y- 4yS- 0	SU7S	ql w
Rsrbon	12 1	47- 7S4h	4hh177y	yS742y7	4h01- h0	2UyS	ql w
Rsrbon	12 2	6S6h2	61- 70	6121h	611SS	SUyh	ql w
RGPrAne	- y 1	170h0S60	216hS22h	2- - 7477h	212hS027	1SUhS	ql w
RGPrAne	- y 2	10- SSh	10041S	171740	100422	2U4h	ql w
RGromAm	y2 2	y2- yh	yShyS	y1yy2	y1621	1U0	ql w
RobsR&	yh 2	46- 6y	402- 7	4y04-	4644h	1U62	ql w
RoI I er	6- 2	h1- 72	h1- 6y	h1S4S	h1262	SU21	ql w
t EwI rowAm	1y6 1	0641h	0602h	00hhy	00S47	1US7	ql w
t EwI rowAm	1y6 2	- 1771	- 1771	- 1S6-	- 16S7	1UyS	ql w
. rbAm	164 1	y740S	yhh1S	yhhy2	yh444	1U42	ql w
. rbAm	164 2	2- y17	2- h2y	2- 611	2- 67y	SUhS	ql w
HsOoPAm	16S 1	6y7- h	60hS0	6727-	60- 4-	1Uhy	ql w
HsOoPAm	16S 2	- 1260	- 1y- 0	- 1- 00	- 1- h4	SU4-	ql w
9 oPmAm	16y 1	1S2y4hh-	h7h4711	hhSh47S	1SS1h061	2US-	ql w
9 oPmAm	16y 2	4S6S0S6	41h7y2-	42y67S1	4102S1S	2U41	ql w
DnOAm	11y 1	010- 1y-	02Sh7h0	0200126	022SSyh	SU0-	ql w
DnOAm	11y 2	h61S26	h42677	hy211S	hy1h41	SUh6	ql w
Don	y4 2	- S2ShhS	2h- 101y	2hyy2- S	2h6h- 12	1Uy6	ql w
Don	y6 2	y- 4hS7h6	y- 41S- SS	y2- 0y6- h	y- Sh2207	1U10	ql w
Don	y0 2	1- 6h0hy	1207S76	12yyS- 7	1- SSh0-	4U60	ql w
KrE I &on	7- 1	- - y	- - y	- 16	- 2h	- U2h	ql w
LesO	2S6 1	402147	47hS1y	47yh17	472- 6S	1U76	ql w

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Inst Id :P8

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RAen&psml Re:D :J	5 9 SFyh	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5esn	R8pCpt	MnA&w
LesO	2S0 1	- hhh- 0	- h- 042	- hh7y6	- h074y	SU7h	ql w
LesO	2S7 1	170- y4S	17h016-	1770076	177616-	SU6-	ql w
LA&GAum	6 1	2640646	264- 41S	262y60-	26- 7hSh	SU44	ql w
5 sgnewAum	24 2	70741-	70- hhS	76h- yS	70- h17	SUy2	ql w
5 sngsnewe	yy 2	0667S2	04602y	042467	0y1hh7	1U0-	ql w
5 oPEbOenum	h4 1	14616	16S06	16117	1y6S4	yU47	ql w
5 oPEbOenum	hy 1	6S26	y04-	62S2	yhhS	- U76	ql w
5 oPEbOenum	h6 1	7707	7027	7hy-	77y-	1U2h	ql w
5 oPEbOenum	h0 1	- - 60	4160	- 7- 4	- 0hS	1SU61	ql w
5 oPEbOenum	h7 1	h4y4	1SSS4	h74y	h067	2UhS	ql w
NeoOEmAum	1yS 1	1- - - 16	1- Sh- h	1- S1- 2	1- 146-	1U26	ql w
NeoOEmAum	1yS 2	- 70y6	- h2S0	- h477	- h1y1	SUh4	ql w
NAqkeP	6S 2	20074	201hh	20S7h	20- y7	1U-6	ql w
8 GowI Goruw	- 1 2	4h4-	y2- 4	y1Sh	yShy	2U70	ql w
8 o&swwAum	- h 2	42S011	4104- 2	41h7y7	41h- - -	SU41	ql w
CGoOAum	1S- 1	017y660	02- S116	0S61174	01y7h7h	1U22	ql w
CGoOAum	1S- 2	- 201y7h	- 2y- ySh	- 2y2- S1	- 2yh1- -	SU-	ql w
pqsnOAum	4y 1	47S66S7	46- 0hy-	46- 467-	46h- S71	2U1S	ql w
pqsnOAum	4y 2	14447y	144y76	146hS0	14y- 26	SUh4	ql w
pe&enAum	72 1	2SS	106	2S1	1h2	0U2	ql w
pe&enAum	00 2	140	14S	16-	1yS	7US1	ql w
pe&enAum	07 2	11h	12y	11S	117	6U4S	ql w
pAAqon	27 1	1246S- 2S	126Sy1h0	12y2- - 11	12y2h6Sh	SUy7	ql w
pAPer	1S0 1	yhy1	6- - y	y767	6Sy1	4U11	ql w
pAPer	1Sh 1	yy4-	y- - y	yh67	y61y	yU0y	ql w
poOAum	2- 2	1124S7	112610	111hh0	112- 41	SU27	ql w
p&on&Aum	76 1	1h- 114	1h- 2S1	1h0177	1h4yS1	1U2S	ql w
p&on&Aum	77 1	106h2h2	1064S4y	107Shy4	10014- S	SU4h	ql w
pu&Pur	- 4 1	272y04	2722y7	274h6S	27- 264	SUy2	ql w
i erbAum	1yh 1	1Syyhyy1	1S4y2y6h	1S217h- -	1S41S- y1	1U60	ql w
i erbAum	1yh 2	4S04yh4	4ShyS14	41066hy	411y4- 4	1U-1	ql w
i GsPAum	2S- 1	2642	2742	2642	20Sh	4U26	ql w
i GsPAum	2Sy 1	6- 6S	67h4	02h4	674h	6U74	ql w
i An	117 1	11SSy	112h0	11S01	11124	1U-7	ql w
i A&snAum	40 1	0116S	01- 6h	011h4	01241	SU16	ql w
MrsnAum	2- 7 1	yh- y6	61424	yh04h	6S100	1U7-	ql w

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RFen&psml Re:D :J	5 9 SFyh	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:10J44JS7	t s&sFAe:Nsme:J	1S1c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	041S4	0- 410	0- S6h	0- y- S	SU02	ql w
Y&erbAum	102 1	10412	104S4	1060h	104h7	SUhS	ql w
Y&erbAum	102 2	720y	7y40	7771	7y67	- Uy4	ql w
Y&erbAum	106 1	12S7h	1- - 1y	1- S- 2	12712	yUS1	ql w
Y&erbAum	106 2	1667-	1607-	10174	1677-	1Uy0	ql w
Y&&Aum	7h 1	1- h1y- 26	1- 62S17y	1- yy0S07	1- 6h0y- S	1U4S	ql w
Y&&Aum	7h 2	14yS2h4	1- - 7yy4	14112h2	14SSS40	4USy	ql w
ZAnq	66 2	6h114	60h4y	6h167	67042	1USS	ql w
ZAqonAum	hS 1	- - 67-	- - S71	- - y24	- - 4- S	SUh-	ql w
ZAqonAum	h1 1	0144	0S20	0y- 6	02- y	- U67	ql w

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LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	aSaS- 1	aS2- a4	4hh- aS	aS224a	SM40	dDl
qCTb nCE	121 1	647a	67a2	6a20	6621	- N8-	dDl
qpl r Ccl	0a 2	- 160	- 14h	- 2- S	- 172	1M4	dDl
Bwpcmb	1- a 1	- aS16h	- 4h4- S	- a021-	- a220S	1M42	dDl
Bwpcmb	1- 0 1	61- h06	6- S44h	626h01	62- 0hh	1Mh	dDl
Br pE8mb	h 1	40S1	4a76	4674	46a0	1M-	dDl
Bdl b mTG	2Sh 1	01aS1S-	046072S	66h0110	01SaS1-	aM4a	dDl
Bdl b mTG	2Sh 2	- - 46274	- - 1- - 76	- 22h6- 2	- 2h64- 4	1M72	dDl
Bpmb cCr	71 1	026S	02- a	0a61	0- a2	2M46	dDl
5 wob cmb	1S7 1	22h	27-	20h	264	11M42	dDl
5 wob cmb	1S6 1	4S10	46a1	- hS1	41hS	hM04	dDl
5 wob cmb	111 1	2610	2a42	2aS-	2aa4	2M46	dDl
5 w8lcmb	4- 1	177274	176767	1hS2- 0	17746-	SM1S	dDl
5 w8lcmb	44 1	- 10a066	- 22a617	- 166- - 2	- 17h2- 7	1N8S	dDl
5 wpenC	12 1	4hh7221	a114- 0h	a- Sa127	a1- h24-	- N82	dDl
5 wpenC	12 2	6- 064	61a6-	6212-	6247-	1M7-	dDl
5 G8hpCr	- a 1	1hh11S- 0	2- 24740a	2a1h- 7S1	220744- 7	11M0-	dDl
5 G8hpCr	- a 2	17a140	1766a1	1h101a	1707- 7	1M7-	dDl
5 Gpmb cmb	a2 2	27S17	204SS	26017	20- 0h	2M0	dDl
5 new8T	ah 2	2hSa-	27a02	276hh	2700a	SM70	dDl
5 nDDr p	6- 2	722S-	71h17	7S161	71420	1M6	dDl
&El Dpnl cmb	1a6 1	haah2	ha102	hhSa7	h66S0	2M41	dDl
&El Dpnl cmb	1a6 2	- hS0S	- 7a02	- 71a7	- 76SS	1M17	dDl
Fpecmb	164 1	67206	60640	6hS21	67- 1a	1N81	dDl
Fpecmb	164 2	26a0-	266h4	2ah- a	264S1	1M44	dDl
Hwon8Cmb	16S 1	0hSa1	71122	71aSS	7Saa7	1M64	dDl
Hwon8Cmb	16S 2	- 7SS0	- 6a74	- 6- 2-	- 6h01	2M4a	dDl
y n8b cmb	16a 1	1SS7a4h-	1S62- 7ha	h26h624	hhh- SS4	6M72	dDl
y n8b cmb	16a 2	4- - 1472	421477h	42Sh12a	42a17- 2	1M62	dDl
tCocmb	11a 1	02212- 7	0661a0a	67a061h	0246711	aM46	dDl
tCocmb	11a 2	ha0a20	haah- 4	h4- - 4S	ha2260	SM72	dDl
tpnC	a4 2	2S- 12h2	2S6Sh14	2S46420	2S46211	SM02	dDl
tpnC	a6 2	- 6472270	- 6h2247-	- 60S760S	- 60S447S	SM8S	dDl
tpnC	a0 2	7ah111	76aa1a	76a7S1	76- 406	SM44	dDl
KpEDTnC	7- 1	- - 0	- - a	- 24	- - 2	2M41	dDl
Lr wo	2S6 1	ah6440	ah76S0	6S4aSh	ahh7aa	SM0S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 S7	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU6S	&c8mTcnC:UwdTnp.J	1
&wTr :i :Acb r :qdCmpr o:J	2S2- S0 12:10J40JSa	&wTwUc8 :u wb r :J	1S2q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	4h21- -	4hhS- 1	aSSS24	4h0S6-	SM16	dDl
Lr wo	2S7 1	2- ah600	2- 46- S4	2- 62007	2- a62a-	SM10	dDl
LcTGmb	6 1	2a71226	2022S07	24- - 0S7	2a0hSS4	aM4h	dDl
9 wgCr l cmb	24 2	4- h1- a	4- - h7S	4- h727	4- 0640	SM0-	dDl
9 wCgwCr l r	aa 2	6716ah	67- 06-	6711aa	6721h2	SM2S	dDl
9 n8Eeor Cmb	h4 1	- aa2h	- 6S7h	- 6h66	- 61ha	2M8S	dDl
9 n8Eeor Cmb	ha 1	h10S	76ha	70S-	77a6	- M80	dDl
9 n8Eeor Cmb	h6 1	1427-	14h10	14- - -	14a11	2M4-	dDl
9 n8Eeor Cmb	h0 1	4017	4h- 4	4067	47S0	2M6	dDl
9 n8Eeor Cmb	h7 1	14S- 2	14241	1- 4hS	1- h21	2M07	dDl
u r noEb cmb	1aS 1	167a6S	166h14	167a20	167SSS	SM46	dDl
u r noEb cmb	1aS 2	4h467	aS4h2	4hS6-	4h604	1M47	dDl
u cdkr 8	6S 2	1- 1Sh	1- SS6	1- 1S-	1- S0-	SM44	dDl
NGhl DGhpml	- 1 2	4206	4Sah	44ah	426a	4M0S	dDl
NnTwl cmb	- h 2	441614	44S0aa	4- a27a	4- h217	SM07	dDl
. Ghocmb	1S- 1	676S12a	0aS022S	64h61ah	6ha4aS1	0M6	dDl
. Ghocmb	1S- 2	- 247626	- 2SS4h-	- 202760	- 24S662	1M14	dDl
l dwCocmb	4a 1	4620202	aSS60hh	4- h12h-	460a121	6M64	dDl
l dwCocmb	4a 2	14a17S	14- 7Sa	14S1aS	14- S4a	1M72	dDl
l r 8 Ccmb	72 1	2- a	1h2	2Sa	211	1SM6	dDl
l r 8 Ccmb	00 2	1a0	21S	1a0	104	10M6a	dDl
l r 8 Ccmb	07 2	1- 6	12h	1- a	1- -	2M74	dDl
l c8dnC	27 1	0h6ahh7	7S21S2S	0h42a- S	0h06a16	SM41	dDl
l c8vr p	1S0 1	1- 1S0	1- 2- 2	1- - 4S	1- 226	SM77	dDl
l c8vr p	1Sh 1	1240-	1- a24	12471	12726	4M01	dDl
l nocmb	2- 2	- ha77	- 766h	- hSa-	- h1S-	1M17	dDl
l TpnCTcmb	76 1	142a4h	1427Sh	14ah0a	14- 007	1M-	dDl
l TpnCTcmb	77 1	12- 6106	124S40a	122aa10	12- 4Sa6	SM02	dDl
l m8mp	- 4 1	27126a	2720a-	27S111	271- 06	SM40	dDl
Ar pecmb	1ah 1	hh- a0- h	11S414a0	h42h4hh	1S1- aa6a	7M-	dDl
Ar pecmb	1ah 2	41- 060h	4Sa12a4	4S- h1h2	4S06S42	1M2	dDl
AGw8cmb	2S- 1	20aS	2aSS	2660	26- h	4M72	dDl
AGw8cmb	2Sa 1	64- a	6S20	627a	624h	- M1	dDl
AcC	117 1	2SS04	1h- a6	2S1hh	1h706	2M2h	dDl
AcTwCcmb	40 1	2- 22h2	2- 2- 00	2- S04-	2- 17S4	SM4S	dDl
RpwCcmb	2- 7 1	1S00a0	1S- 411	1S4S00	1SaS71	2M-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S7	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10J40JSa	&wTwUd8 :u wb r :J	1S2q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	aSS- 1	4h760	4hh4S	4hh46	SM16	dDI
YTTr peomb	102 1	170h0	1h- 47	17221	1707h	- N8S	dDI
YTTr peomb	102 2	hSh2	7671	7h2S	77h7	2M2	dDI
YTTr peomb	106 1	141- -	12h72	1- 0a0	1- 624	4M1	dDI
YTTr peomb	106 2	10127	166h4	160Sa	16742	1M40	dDI
YTTpomb	7h 1	14S4- 21h	14h16111	12h- 100h	1- h6- 0S-	0M12	dDI
YTTpomb	7h 2	1- a4ahS	14S461-	1- - 2a77	1- 6- h- S	2M01	dDI
ZdCd	66 2	72- S4	726- 6	7Sa24	71721	1Mh	dDI
ZqpdnComb	hS 1	76721	7- 47-	7- 1aa	74476	2M4S	dDI
ZqpdnComb	h1 1	17677	177aa	17046	1706-	SM4a	dDI

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iClJa	wl P8 l N
Ll r JDl e t NJ&TJaJ	3 - 447 S:	& Fllbe . piJml e pJa	u7
9 Np. iJDl e t NJ&TJaJ	y h SM61	TdNiqC. JM OlClJa	1
Tl ipJAJcqe pJdOobdpnJa	2S2- S0 12J10asSaS4	Tl il MdNJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	7- 01- -	7- 2: s7	72: 22-	7- - 1Ss	SR47	Ol P
d. iqe C. E	121 1	2s0s7	24s47	2s: 60	2s424	- RS1	Ol P
dlPp. qO	0s 2	124s0	1244s	12s67	124: S	SR34	Ol P
Bl dpe	1- s 1	042677	026402	026- : 6	0- 17s2	1R27	Ol P
Bl dpe	1- 0 1	1- 1- : 77	1- SS- 46	1- Sss61	1- S66- 2	SR3-	Ol P
BplENNpe	: 1	6S1-	6221	61- 2	6122	1R0S	Ol P
BqPe biG	2S: 1	6772126	02S0: : 4	6: 24- S4	0SS47S7	2R3-	Ol P
BqPe biG	2S: 2	- 264- 7-	- 26- s- 6	- 214ss-	- 2404: 1	SR77	Ol P
BlCe q p	71 1	0ss2	7S11	07: 4	071:	- RSs	Ol P
9 l ne dpe	1S7 1	- 42	- 77	- 42	- s0	0R41	Ol P
9 l ne dpe	1S6 1	4- S:	4ss1	4s17	44s:	2R 4	Ol P
9 l ne dpe	111 1	- 060	- 07S	- : 06	- 741	- RS4	Ol P
9 l NOdpe	4- 1	- 7s17s	- : 2S2:	- 7: 241	- 7771:	SR7:	Ol P
9 l NOdpe	44 1	6s7S76-	66ss167	6s700s:	66S0: - S	SR62	Ol P
9 l lr C.	12 1	- 667217	- 7S- 4: :	- 7- 41S:	- 0676S:	2R 4	Ol P
9 l lr C.	12 2	46- S0	4s: 64	40174	4647s	1R s	Ol P
9 GNOlq p	- s 1	1: - 4624S	22666: 64	24Sss26s	22S2272-	1SR:	Ol P
9 GNOlq p	- s 2	107S: 4	1722s6	174201	171s4S	1R04	Ol P
9 GlCe dpe	s2 2	610s:	61100	61S1-	61- 16	SR64	Ol P
9 Cr l NN	s: 2	4- 7- 0	4- 127	44s: 6	4- 7s4	1R60	Ol P
9 Ct pl	6- 2	1: - S: -	1: - 0: s	1: - - s6	1: - 41s	SR47	Ol P
TEPt lCPdpe	1s6 1	1- - 12s	1- 1267	1- 2: S:	1- 24- 4	SR00	Ol P
TEPt lCPdpe	1s6 2	s4772	s- s: 4	s40- s	s44S4	1R S	Ol P
Ulr dpe	164 1	: - 0: 0	: s670	: - s- 7	: 4- 41	1R24	Ol P
Ulr dpe	164 2	- 0s: 0	- 0771	- 016s	- 0s47	SR 6	Ol P
Hl nONqdpe	16S 1	111S07	11S17S	111000	111S12	SR02	Ol P
Hl nONqdpe	16S 2	s12ss	s11s1	s1760	s1424	SR0s	Ol P
h ONe dpe	16s 1	: 41274-	1SS17s67	1S1- 01- -	: 7s6171	- R 4	Ol P
h ONe dpe	16s 2	4- 1S424	42s7Ss0	4- S- S: S	42: Ss24	SR66	Ol P
& ndpe	11s 1	60- 6S6s	017: s06	0270- 22	0S0S: 77	4R16	Ol P
& ndpe	11s 2	: s4- 44	: - 7s: :	: 4: 1: 2	: 40- 0:	SR7s	Ol P
&C.	s4 2	- 4s201s	- 4S27s1	- 4s: Ss4	- 4- 72S0	SR S	Ol P
&C.	s6 2	621SS7- s	6272: s72	610617: 0	622- S001	SR77	Ol P
&C.	s0 2	1621000	162S6S7	161: s41	162S642	SRS0	Ol P
KlEt iC.	7- 1	- : s	- 60	- 04	- 0:	- R71	Ol P
Lpl n	2S6 1	1: s4747	1: - S070	1: 06- 4S	1: s- : : 2	1R10	Ol P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iClJa	wl P8 l N
Ll r JDl e t Nb.J&TJaJ	3 - 447 S:	& Fllbe . piJml e pJa	u7
9 Nb. iJDl e t NbJ&TJaJ	y h SM61	TdbiqC. JM OlClJa	1
Tl ipJAJcqe pJdOobdqpnJa	2S2- S0 12J10asSaS4	Tl il MdbJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
LpI n	2S0 1	14s4640	146- 444	14s600:	14s72: S	SR 1	Cl P
LpI n	2S7 1	046- 270	0s06604	0- 7: : 74	0406647	1R26	Cl P
LqiGdpe	6 1	2411- 17	26- 0: - 2	26- : 174	2s62711	sR12	Cl P
y l g. pPdpe	24 2	7: 17- 1	70: 4: 4	776- 7:	77s: Ss	SR0S	Cl P
y l . gl . pPp	ss 2	12- SS2S	122S02s	12- S422	1220Ss6	SR4s	Cl P
y CNEr np. be	: 4 1	4: 471	4: 7: 7	47ss-	4: - 1S	1R4S	Cl P
y CNEr np. be	: s 1	26- 26	26: 6S	26s: -	26626	1R2S	Cl P
y CNEr np. be	: 6 1	- 4- S2	- sS2:	- s- 2S	- 4774	1R3S	Cl P
y CNEr np. be	: 0 1	16420	16420	1044s	16066	- R31	Cl P
y CNEr np. be	: 7 1	4262s	42: : -	4- 217	42: 4s	SR0S	Cl P
mpOnEe dpe	1sS 1	220Ss2	2- S110	2- S1- 2	22: 1S1	SR00	Cl P
mpOnEe dpe	1sS 2	6: S1S	67102	67ss1	67s07	SR61	Cl P
mqOkpN	6S 2	2s4S-	244S7	24: - 2	24: 14	2RSS	Cl P
uGCPt GClbP	- 1 2	4274	4S06	4- S1	422S	2R.0	Cl P
uCl PPdpe	- : 2	4: 2: 02	47- 672	4: 1240	47: - SS	1RS1	Cl P
FGOndpe	1S- 1	6006S0S	02s- S- 4	0S7s2- 1	0S- 7112	- R44	Cl P
FGOndpe	1S- 2	- 2: S240	- 2s66s:	- 227: 0S	- 2s7626	SR.4	Cl P
DOl . ndpe	4s 1	44s- S10	4017442	40264: 7	46- 26s2	- R6	Cl P
DOl . ndpe	4s 2	14- s0-	144: 11	14- 742	1441S:	SR4:	Cl P
DpNb. dpe	72 1	16:	20S	240	22:	2- R24	Cl P
DpNb. dpe	00 2	22S	2s0	2sS	242	7RS6	Cl P
DpNb. dpe	07 2	1s4	101	16-	16-	sR2-	Cl P
DqNDC.	27 1	02: 416:	0- s: 4- 0	0421441	0- s7- 4:	SR76	Cl P
DqNpl	1S0 1	1: 671	2SS- 2	1: ss6	1: 0s6	1R2s	Cl P
DqNpl	1S: 1	1: 1ss	1: 140	1: 1: 0	1: 160	SR14	Cl P
DOndpe	2- 2	70- 27	7s: 01	76: 16	760- 7	SR7S	Cl P
DilC. idpe	76 1	- 11461	- 1s6- 6	- 1: 6s2	- 1ss7-	1R S	Cl P
DilC. idpe	77 1	2: 1700S	2: S1471	27220S:	277S: 70	1R07	Cl P
DbNbl	- 4 1	276676	277007	2: 1270	277: 10	SR7S	Cl P
cplr dpe	1s: 1	: 762260	1S2s04S:	1S- ss1S0	1S1s7261	2R30	Cl P
cplr dpe	1s: 2	4211067	4172S6S	4116706	410S2- s	1R16	Cl P
cGl Nbpe	2S- 1	- 060	- 726	- : s1	- 747	2R44	Cl P
cGl Nbpe	2Ss 1	: s: s	: 212	: 662	: 4: S	2R36	Cl P
cq	117 1	ssS11	s- 12:	s- sSs	s- 772	1R7s	Cl P
cqil . dpe	40 1	2s470-	2s61s2	24042s	2s2710	1R76	Cl P
5 ll . dpe	2- 7 1	11621s	11s666	116: 12	116264	SR34	Cl P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t pll iCIJa	wl P8 l N
LI r JDI e t NpJ&TJaJ	3 - 447 S:	& FIlbe . piJml e pJa	u7
9 Npp. iJDI e t NpJ&TJaJ	y h SM61	TdpiqC. JM OCIJa	1
TI ipJAJcqe pJdOobdpnJa	2S2- S0 12J10asSaS4	TI il MdpJml e pJa	1S- dF UMRn

ul ll e pipl	y l PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
Vl . l ndpe	s1 2	: - 2S1	: 261S	: 1172	: 2- - 1	1R12	OI P
Yiiplr dpe	102 1	2606:	201- 0	20477	201- 1	1R 2	OI P
Yiiplr dpe	102 2	12: 62	12: s0	1200-	127: 0	SR7-	OI P
Yiiplr dpe	106 1	17s40	10: 46	17- : 6	172: 6	1R01	OI P
Yiiplr dpe	106 2	2Ss44	1: 606	1: 6S:	1: : 4-	2R61	OI P
Yiildpe	7: 1	1- s- 07S2	14- 4S2- 6	1410: 700	14S1: - Ss	- RS-	OI P
Yiildpe	7: 2	146- : : -	14s: 466	14- 072S	14s- 06S	SR 6	OI P
Zq O	66 2	12s644	1276: 2	1204: S	120206	1R21	OI P
ZdOC. dpe	: S 1	: - S6S	: S71-	: 200s	: 2216	1R -	OI P
ZdOC. dpe	: 1 1	2S6S0	2Ss66	21- s:	2S744	2R14	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Nd:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Nd. i:DI e t Nd:&T :J	y h SM62	TdbiqC. :M OCI:J	1
TI ip:A:coe p:dOobdpn:J	2S2- S0 12:10Ja2Jas	TI il MdbNd:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dINe q dpe	20 2	sS4422	772S44	77421s	7sS227	1Rs	OI P
d. ioe C. E	121 1	6044	6667	6220	6a46	4R20	OI P
dIPp. oO	0a 2	6224	6S46	6SS6	6Ss2	1R31	OI P
BI Idpe	1- a 1	a6a64S	a67S4s	aa67- s	a6- aSs	1RSa	OI P
BI Idpe	1- 0 1	s70S1s	s6sa24	1SS2021	s76422	1R67	OI P
BpIENNpe	s 1	4221	4466	44- 1	4- 0-	- RS-	OI P
BqPe biG	2Ss 1	0277244	6s24441	67744s1	0S- 2- s2	- R16	OI P
BqPe biG	2Ss 2	- S60440	- 2s7661	- 1s6s11	- 17060-	- R64	OI P
BIOe q p	71 1	6200	6117	a76S	6S7a	- R46	OI P
9 I ne dpe	1S7 1	1s6	1s6	17-	1s2	- R30	OI P
9 I ne dpe	1S6 1	44- 4	4026	41as	444S	6R 7	OI P
9 I ne dpe	111 1	2S1a	226a	2146	2142	aR74	OI P
9 I NOdpe	4- 1	1- 2- 420	1- 1sa2S	1- S4646	1- 1a764	SR0a	OI P
9 I NOdpe	44 1	2S7s1670	2122s22a	2114aSS6	21S7764S	SR7-	OI P
9 I Ir C.	12 1	47107a2	a11s- 71	aS076s4	aSSa- Ss	- R20	OI P
9 I Ir C.	12 2	62642	61a2s	6124a	617S6	1R1s	OI P
9 GNOIq p	- a 1	1saSas70	22- 7S1s1	24S42201	21s061aS	1SR44	OI P
9 GNOIq p	- a 2	1072- 7	172600	17a2SS	172S- 7	1R34	OI P
9 GIOe dpe	a2 2	aa617	a47sa	a- S07	a4a- S	2R4S	OI P
9 OrI NN	as 2	644a2	64- S4	64- aa	64- 0S	SR12	OI P
9 Ot pl	6- 2	12S20s	11s4- 7	11s- 10	11s607	SR44	OI P
TEPt IOPdpe	1a6 1	s6- - 1	s62s0	sa1S4	sas11	SR0-	OI P
TEPt IOPdpe	1a6 2	4S- s1	- s40a	- ssaS	- ss- s	1R1a	OI P
UIr dpe	164 1	7- 2sa	070s2	0ssa7	7S672	2R3S	OI P
UIr dpe	164 2	- 16S1	- 2- 4s	- 1601	- 1704	1R S	OI P
HI nONq dpe	16S 1	7- s22	7aa7-	74S24	74a1S	1R1S	OI P
HI nONq dpe	16S 2	4Sa07	- 7746	- s46a	- s6- S	2R21	OI P
h ONe dpe	16a 1	1S06a26s	ssa4aSS	1S21S624	1S- 1S1- 1	4RS2	OI P
h ONe dpe	16a 2	4Sas7s-	4- 6a266	410s4s0	42S1aa2	- R66	OI P
& ndpe	11a 1	0407a42	02440s0	02441s7	0- 22a1-	1R7a	OI P
& ndpe	11a 2	sSs- 0s	s4s066	s- - s62	s- 1S- 6	2R1s	OI P
&C.	a4 2	4Sa2s7a	- s7S0sS	- s041sa	4SS26a0	1RSs	OI P
&C.	a6 2	04S701- a	02s0S2a0	0- S66a24	0- - 046- s	SR74	OI P
&C.	a0 2	17ss116	1701- 6-	17716- 0	1774S- 7	SR04	OI P
KIEt iC.	7- 1	- as	- a6	- 20	- 40	aRSS	OI P
LpI n	2S6 1	4- 6142	4- 6s71	440SSa	44SS42	1R 0	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8I N
LI r :DI e t Np:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Np. i:DI e t Np:&T :J	y h SM62	T dpiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdqpn:J	2S2- S0 12:10Ja2Jas	TI il Mdp:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
LpI n	2S0 1	- 62S41	- 62020	- 64S- 1	- 62s- -	SR27	OI P
LpI n	2S7 1	1014aa1	102- sS1	10420S-	1020Sa2	SR7-	OI P
LqiGdpe	6 1	20S2SS4	26174- 2	26S66- 2	2642- a6	1R30	OI P
y I g. pPdpe	24 2	41a1607	4Sa6- SS	414- S- S	4110SS-	1R27	OI P
y I . gI . pPp	aa 2	162- - S0	16S26s6	16S4244	161SS72	SR01	OI P
y CNEr np. be	s4 1	1sS7s	1s07s	2S26a	1s014	- RSS	OI P
y CNEr np. be	sa 1	11764	11saa	126s7	12102	- R06	OI P
y CNEr np. be	s6 1	1a64-	1aS0a	1a1SS	1a20-	2R1S	OI P
y CNEr np. be	s0 1	046s	041S	0076	0aaa	2R30	OI P
y CNEr np. be	s7 1	17s77	2S147	2S- ss	1s74a	- R0s	OI P
mpOnEe dpe	1aS 1	1a0211	1a6- S0	1a7- - 0	1a027a	SR3a	OI P
mpOnEe dpe	1aS 2	46s7s	40- - S	40- 00	402- 2	SR4a	OI P
mqOkpN	6S 2	- 766s	- 07s4	- 7217	- 726S	1RS2	OI P
uGOPt GOIbP	- 1 2	aa- a	a4S1	4s17	a274	6R14	OI P
uOI PPdpe	- s 2	aS146s	4s6- 7-	4s0sS1	4s7a74	SRa2	OI P
FGOndpe	1S- 1	0- 01asa	0S44070	6s1s141	0111741	- R27	OI P
FGOndpe	1S- 2	- S0166-	- 2122sS	- 16S7- 2	- 147261	2R26	OI P
DOI . ndpe	4a 1	472s6sa	466s- 47	460S01S	402- 2a1	1R3a	OI P
DOI . ndpe	4a 2	1- 0a46	146s74	14- ss4	142741	- R 7	OI P
DpNp. dpe	72 1	21S	2- a	26s	2- 7	12Rs	OI P
DpNp. dpe	00 2	100	2SS	220	2S1	12R44	OI P
DpNp. dpe	07 2	127	127	147	1- a	7Ra7	OI P
DqNOC.	27 1	11sa0S1a	12S6a0a-	12S627s0	12S27aaa	SRa2	OI P
DqNpI	1S0 1	- 7S1	4S06	42s2	4Sa6	6RS7	OI P
DqNpI	1Ss 1	- s10	41as	- 710	- s6a	4R4-	OI P
DOndpe	2- 2	1SS120	ss414	1SSas6	1SSS4a	SRas	OI P
DiIC. idpe	76 1	2s67s0	- S2s- -	- S- 641	- S11a0	1R2-	OI P
DiIC. idpe	77 1	20a- 6- -	2071aS0	20a104-	20622sa	SR6S	OI P
DbNbI	- 4 1	- - SSsa	- - as66	- 4271-	- - 62s1	1R7s	OI P
cpIr dpe	1as 1	1S721s64	1S1saa42	1S26S70-	1S426126	- R S	OI P
cpIr dpe	1as 2	- s606- s	4116S0-	4Ss4022	4Sas407	1R37	OI P
cGI NNpe	2S- 1	- 4Ss	- aS1	- - 42	- 410	2R -	OI P
cGI NNpe	2Sa 1	74- 6	7461	721s	7- 02	1Ras	OI P
cq	117 1	11s40	1107S	11s22	1177-	SR06	OI P
cqI . dpe	40 1	07616	076ss	006S2	07- S6	SR07	OI P
5 II . dpe	2- 7 1	7s101	7sa2a	767sS	77a27	1R62	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	3 t pII iCI:J	wI P8 I N
LI r :DI e t Nb:&T :J	3 - 447 1S	& FIIbe . pi:mI e p:J	u7
9 Nb. i:DI e t Nb:&T :J	y h SM62	T dbiqC. :M OCI:J	1
TI ip:A:cqe p:d Qobdpn:J	2S2- S0 12:10Ja2Jas	TI il MdbN:mI e p:J	1S4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	a1 2	s- 712	s- 0S1	s2s46	s- 476	SRaS	OI P
Yiiplr dpe	102 1	247a0	26- S2	26220	2a0sa	- R1a	OI P
Yiiplr dpe	102 2	12aS6	12S- -	11s11	121aS	2Ra6s	OI P
Yiiplr dpe	106 1	10- 12	100S4	10- a4	104a6	1R2-	OI P
Yiiplr dpe	106 2	17776	1ss1a	177a-	1s217	- R14	OI P
Yiild pe	7s 1	144Ss264	14S1- 6s6	142404Ss	1422- 4a6	1R4S	OI P
Yiild pe	7s 2	1- s22- s	14020- s	1- 4- - 62	14S207S	4R36	OI P
Zq O	66 2	776S1	7a707	7a00a	760a1	1R7a	OI P
ZdOC. dpe	sS 1	- 426S	- - S0-	- 4S60	- - 7SS	1R77	OI P
ZdOC. dpe	s1 1	7161	7- a-	04a2	0s7s	aR34	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:I wb D8 :t&:.J	3 - 447 11	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTI wb D8 :t&:.J	9 y SU6-	&8mTcnC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Jaa.Jaa	&wTwUd8 :u wb r :J	1Saq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
q8mb cCcmb	20 2	60467h	60S1- a	66a24S	60SS22	SM01	dDI
qCTb nCE	121 1	0611	671h	0aS2	0- 1S	aM70	dDI
qpl r Ccl	0a 2	611h	6S74	6S67	6ShS	SM4-	dDI
Bwpcmb	1- a 1	- 0Sh6S	- 017a6	- 7S01a	- 04a1S	1M44	dDI
Bwpcmb	1- 0 1	6ah4S4	6a72ah	602627	66- 4- S	1M2S	dDI
Br pE8&mb	h 1	2676	20S6	260h	26hS	SM4-	dDI
Bdl b mTG	2Sh 1	014h22-	6ha06S7	020h70h	0127hS-	2M20	dDI
Bdl b mTG	2Sh 2	- 1724h1	- - 207a4	- 246- 70	- 2a2244	2M24	dDI
Bpmb cCr	71 1	aaS1	aaS1	611S	a0S4	6M16	dDI
5 wob cmb	1S7 1	1h6	10a	17-	17a	aM67	dDI
5 wob cmb	1S6 1	46h-	41h2	44Sh	44- 1	aM06	dDI
5 wob cmb	111 1	1h0S	1022	1h2h	1704	0M1S	dDI
5 w8lcmb	4- 1	- - 7Shh	- - 0h06	- - 7S07	- - 7Sa1	SM82	dDI
5 w8lcmb	44 1	a0aaS61	a076SS2	a026- h1	a0aa717	SM42	dDI
5 wpenC	12 1	- 1hS1aS	- 172a12	- 244776	- 2Sa74h	1M86	dDI
5 wpenC	12 2	- 0hh2	- 7242	- 7700	- 7- 0S	1M1h	dDI
5 G8hpcCr	- a 1	2S61S427	2- 61Sh00	2aah20S6	2- 201- 0S	1SM07	dDI
5 G8hpcCr	- a 2	17076a	17711S	1h- aa6	17h744	1M6h	dDI
5 Gpmb cmb	a2 2	6770a	66722	660ah	6047a	1M07	dDI
5 new8T	ah 2	a4460	a- S0a	a- 604	a- 0- h	1M1S	dDI
5 nDDr p	6- 2	h4S46	h261-	h21SS	h2h1h	1M8h	dDI
&El Dpnl cmb	1a6 1	1S6h76	1S61- 7	1S0264	1S60h6	SM4a	dDI
&El Dpnl cmb	1a6 2	42126	4- 444	41- 20	422hh	2M4-	dDI
Fpecmb	164 1	001a7	06602	0a0a7	06a2h	SM1-	dDI
Fpecmb	164 2	- 1S- 6	2h0h-	277Sa	2h707	- M04	dDI
Hwon8Ccmb	16S 1	77S4S	70621	7614a	7026h	1M14	dDI
Hwon8Ccmb	16S 2	4SS4-	- h40a	- h706	- h0h7	SM0-	dDI
y n8b cmb	16a 1	1SS70a- 6	1SS6720-	hh4aa7-	1SS- - 0h7	SM00	dDI
y n8b cmb	16a 2	4S112- h	4- 7726-	41aa6- 2	417aS4a	4M4a	dDI
tCocmb	11a 1	0- 6- - Sh	0Sh0h- S	0201hS0	0244- 72	1M76	dDI
tCocmb	11a 2	hSaa4a	h6- 44-	h- 27h-	h- - h6S	- M1S	dDI
tpnC	a4 2	- 44a2aa	- 4a6621	- 4S6S21	- 4- ah66	SM00	dDI
tpnC	a6 2	62S610h-	616011SS	62- 0a7- a	62S- 624-	SM40	dDI
tpnC	a0 2	1a70h01	1ahS006	1ah0241	1ah1hh6	SM1S	dDI
KpEDTnC	7- 1	- 42	- 22	- 0a	- 40	0M64	dDI
Lr wo	2S6 1	2h67aa	2h- - 4h	- SS07a	2h6hh6	1M2a	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :uwb r :J	1Saq. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	24a0S6	2417aS	246ha-	2447- 0	1N8h	dDl
Lr wo	2S7 1	1107hSh	116- 0a7	110a2ah	1102642	SM00	dDl
LdTGmb	6 1	264- - 26	26121h-	2666440	264S6aa	1N8-	dDl
9 wgCr l mb	24 2	h20- 00	h21S64	h12S42	h2S161	SM74	dDl
9 wCgwCr l r	aa 2	1aa4a77	1a42010	1a2a747	1a41Sa1	SM14	dDl
9 n8Eeor Cmb	h4 1	- 116h	- 170h	- 1661	- 1a0S	1M1a	dDl
9 n8Eeor Cmb	ha 1	1hh1a	1h202	1hSh0	1h427	2M22	dDl
9 n8Eeor Cmb	h6 1	2- a- 0	2- 662	2- 462	2- aa4	SM4-	dDl
9 n8Eeor Cmb	h0 1	12S14	11h02	11a7h	117a7	1M17	dDl
9 n8Eeor Cmb	h7 1	- Saa1	- 11h4	- S- 2a	- S6hS	1M40	dDl
u r noEb mb	1aS 1	1hh6S7	1haahh	1h6a- 1	1h0246	1N86	dDl
u r noEb mb	1aS 2	ah74-	a7a01	a0- 02	a7aha	2M11	dDl
u dkr 8	6S 2	- - - 0h	- - 2- 2	- 2017	- - 11S	1N8a	dDl
NGhl DGhpml	- 1 2	- 10a	- 1SS	- SaS	- 1Sh	2N82	dDl
NnTwl mb	- h 2	2ha70S	2h1626	2h622S	2h4a02	SM70	dDl
. Ghomb	1S- 1	027S111	02061S6	01h- 04a	024hh77	SM00	dDl
. Ghomb	1S- 2	- 1S2S4S	- 24a- 17	- 1hSa76	- 10h- 1a	2M20	dDl
l dwComb	4a 1	47a46S6	4720h26	40a4S62	47121h7	1N87	dDl
l dwComb	4a 2	1- 04a0	1442hS	14172S	14117h	2M4a	dDl
l r 8 Cmb	72 1	266	- 40	262	2h2	16M44	dDl
l r 8 Cmb	00 2	1hS	14-	1a0	16-	14M01	dDl
l r 8 Cmb	07 2	1- 6	1a6	14-	14a	0N8S	dDl
l 8dnC	27 1	0a46h64	00776h6	0724h7a	002S21a	1M16	dDl
l 8vr p	1S0 1	2774	2a- 4	2h10	2007	0M0a	dDl
l 8vr p	1Sh 1	2- 2a	2660	27h2	2627	1SM76	dDl
l nomb	2- 2	040- -	04h10	0- 1h2	04271	1M27	dDl
l TpnCTmb	76 1	16- 712	161h72	162207	1626h1	SM0S	dDl
l TpnCTmb	77 1	1471a7a	14h10- 2	14h7S72	14hS466	SM46	dDl
l m8mp	- 4 1	- - 172h	- 2a174	- 2a0Sh	- 20a04	1M1-	dDl
Ar pemb	1ah 1	1Sa- 1472	1S17011S	1S420404	1S- 72S22	1M0S	dDl
Ar pemb	1ah 2	- h- 66a-	41- 611S	- h71a44	4S171S2	2M0S	dDl
AGw8mb	2S- 1	24h2	2a- 4	24aS	24h2	1M00	dDl
AGw8mb	2Sa 1	a7- a	6S- a	a74-	ahS4	1M12	dDl
AdC	117 1	1aaah	1a767	1a66S	1a6h6	1N8S	dDl
AdTwCmb	40 1	h2146	h1aa7	h221-	h1h02	SMlh	dDl
RpwCmb	2- 7 1	76110	7- 122	70S47	7a42h	2M4S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 11	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU6-	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10JaaJaa	&wTwUd8 :u wb r :J	1Saq. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	07117	06077	0a72-	06h1S	1M4S	dDI
YTTr peomb	102 1	2a1a7	2a- 0a	247hS	2a141	SM10	dDI
YTTr peomb	102 2	12S- -	11- hh	114- -	11622	- M80	dDI
YTTr peomb	106 1	10a0h	10107	1671h	101h2	2M21	dDI
YTTr peomb	106 2	17Sa0	1hS2S	1767S	17a76	2M4-	dDI
YTTpomb	7h 1	142hh72a	14SSSh7-	14216a01	141024ah	1M8h	dDI
YTTpomb	7h 2	1- 017h1	1444SSa	142SSa0	1411h74	2M4S	dDI
ZdCd	66 2	6712-	667hS	660- S	60247	1M1-	dDI
ZqpdnComb	hS 1	a- 6h6	aa407	a4271	a447a	1M60	dDI
ZqpdnComb	h1 1	12S40	1167h	126- 1	12122	- M12	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwe:l wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0S0- 16	0S6272	0S17- S	0Sa14-	SM41	dDl
qCTb nCh	121 1	1S146	E02E	1S701	1S24E	aM64	dDl
qpl r Ccl	0a 2	0601	0a22	06SE	06SS	SMEE	dDl
Bwpcmb	1- a 1	aaEa06	aaa062	aa41- E	aa64E2	SM4S	dDl
Bwpcmb	1- 0 1	EESE4S	E74- aE	E60EaE	E71S76	1M21	dDl
Br ph8mb	E 1	- 014	- 024	- 64S	- 6E-	1M24	dDl
Bdl b mTG	2SE 1	67Sa744	021E1- 4	6E0a74-	0SSS204	2ME0	dDl
Bdl b mTG	2SE 2	- 16S622	- 27- S- S	- - 42704	- 262106	2M7a	dDl
Bpmb cCr	71 1	7S44	74E4	7- 1E	7276	2M04	dDl
5 wob cmb	1S7 1	- E6	42a	- 46	- 7E	1SMS	dDl
5 wob cmb	1S6 1	4a4-	4a- 4	47a1	464-	- M7E	dDl
5 wob cmb	111 1	4- 11	4S47	42- E	42SS	- M24	dDl
5 w8lcmb	4- 1	1S2SEa0	1S224- 2	1S1- a6a	1S17E7a	SM40	dDl
5 w8lcmb	44 1	1022S- Ea	10- S1144	1022061a	1024E017	SM26	dDl
5 wpenC	12 1	4477- 71	4a27ES6	4a7E67a	4a- a6a0	1M12	dDl
5 wpenC	12 2	aaSE6	aaSa4	a- a- E	a4a6-	1M0-	dDl
5 G8hpcCr	- a 1	2S1- S676	2- aaE400	2a2- 2E70	22E04- 7-	11M2	dDl
5 G8hpcCr	- a 2	17SaES	17- 7S6	177761	17441E	2M26	dDl
5 Gpmb cmb	a2 2	6ESSa	67701	670a1	67706	SM17	dDl
5 new8T	aE 2	- 7ES-	- 740E	- ES74	- 7722	SM7S	dDl
5 nDDr p	6- 2	1E- 470	1E2S16	1E- 104	1E27E2	SM4S	dDl
&hl Dpnl cmb	1a6 1	74aa1	76S17	74044	7a1S4	SME4	dDl
&hl Dpnl cmb	1a6 2	- 40- a	- 4- 67	- 460a	- 4aE-	SM40	dDl
Fpecmb	164 1	6- aS2	62S21	6S7ES	621- 7	2M11	dDl
Fpecmb	164 2	240E-	24E60	2472S	2476S	SM17	dDl
Hwon8Ccmb	16S 1	0- E1-	02- 64	04- - -	0- a- 0	1M41	dDl
Hwon8Ccmb	16S 2	- - 46a	- - 71-	- - E6S	- - 046	SM0a	dDl
y n8b cmb	16a 1	EE- E40S	1S1SS- E0	1S146674	1SS6217-	1M37	dDl
y n8b cmb	16a 2	4S600EE	4- 44SE7	4200E14	422EE- 0	- M41	dDl
tCocmb	11a 1	6E2444a	0- 21EE7	01EE1E0	0147a40	2M7a	dDl
tCocmb	11a 2	E1aEa2	Eaa7EE	Ea04a1	E4- 1S1	2M4E	dDl
tpnC	a4 2	270- a4-	204S167	27- - - SS	271a601	2M4-	dDl
tpnC	a6 2	a1SaaSaS	aSE- 2241	a1- S- 4SS	a1SE67E0	SM0	dDl
tpnC	a0 2	117E2S2	12170S2	11E0E74	12S1E6-	1M26	dDl
KphDTnC	7- 1	- a1	- 4a	- 11	- - 6	6M41	dDl
Lr wo	2S6 1	1- 26001	1- - a1E-	1- 1a74-	1- 2aE- 6	SM0-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa1	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :uwb r :J	1S6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	1SE712-	11160E1	1SE0Sa7	11S- EE1	1N81	dDl
Lr wo	2S7 1	aa2SEaS	aa071E0	aa2aE76	aa41011	SM10	dDl
LdTGmb	6 1	2a42742	2664761	267a477	26- 1S6-	2M4-	dDl
9 wgCr l mb	24 2	100221S	1022271	10- Saa2	1041671	1M44	dDl
9 wCgwCr l r	aa 2	1SE7211	1S0710S	1SE2426	1S7E6S2	SM4a	dDl
9 n8heor Cmb	E4 1	- a10S	- 47a-	- 44- a	- 471E	1N86	dDl
9 n8heor Cmb	Ea 1	144- -	1- 44S	1- 4ES	1- 077	4N86	dDl
9 n8heor Cmb	E6 1	1E6- E	1E02-	1Ea64	1E642	SM4S	dDl
9 n8heor Cmb	E0 1	764a	E212	74S-	70a-	4M04	dDl
9 n8heor Cmb	E7 1	220E4	220E4	214- 4	22- 41	- M42	dDl
u r nohb cmb	1aS 1	14446E	144a4E	1442S1	1444S6	SM1-	dDl
u r nohb cmb	1aS 2	4- 04a	42601	4- 0S1	4- - 02	1M4S	dDl
u cdkr 8	6S 2	26417	2a- - E	266Sa	26121	2M62	dDl
NGhl DGhpml	- 1 2	4Ea1	4Ea1	a167	aS2-	2M4E	dDl
NnTwl l cmb	- E 2	- 06EE1	- 06Ea1	- 06SEE	- 0667S	SM1-	dDl
. Ghocmb	1S- 1	671- - - 1	01- S- 7-	02SEEa4	0Sa1222	2M47	dDl
. Ghocmb	1S- 2	- S67S74	- 2Sa74E	- 26S21-	- 107S47	- M12	dDl
l dwCocmb	4a 1	446E1a0	47a701E	47102S4	401aS20	4M44	dDl
l dwCocmb	4a 2	1- 0a0E	14- 7- 0	14041-	142E4-	- M47	dDl
l r 8 Cmb	72 1	246	1EE	2- 0	220	11M1	dDl
l r 8 Cmb	00 2	2S0	1- 0	17S	104	2SM2a	dDl
l r 8 Cmb	07 2	1- 1	111	1- 0	126	1SM07	dDl
l 8dnC	27 1	1S- 6E61E	1S1- 0- Sa	1S26a20a	1S2a04SS	1M1-	dDl
l 8vr p	1S0 1	74a-	7707	7661	7664	2M46	dDl
l 8vr p	1SE 1	72S-	0EE4	7161	711E	1M6	dDl
l nocmb	2- 2	10S067	160014	10- 144	10Sa42	1M6S	dDl
l TpmCTcmb	76 1	40SEa6	402221	40S274	4011a4	SM21	dDl
l TpmCTcmb	77 1	4- S6E- a	42a20SS	42644S2	420460E	SM00	dDl
l m8mp	- 4 1	- aEE- 7	- 6aSS-	- 626S6	- 62a1a	SM0S	dDl
Ar pecmb	1aE 1	EEE17E6	1S- 0- 7- 7	1S2- 12S7	1S1E7E71	1M7E	dDl
Ar pecmb	1aE 2	- E17- - 2	41a0442	4120SS4	4S60aE-	- M2S	dDl
AGw8mb	2S- 1	20aE	27aS	2a2a	2011	6M17	dDl
AGw8mb	2Sa 1	60a2	6720	621S	6aE6	aM1S	dDl
AdC	117 1	2- 746	2- 40E	2- 446	2- aES	SM44	dDl
AdTwCmb	40 1	227a7a	22716-	224ES4	220210	SM7E	dDl
RpwCmb	2- 7 1	E62a0	Ea000	E4E0S	Ea667	SM07	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S1	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa1	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:10Ja7Ja1	&wTwUd8 :u wb r :J	1S6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a1 2	0- 17E	0- 2S-	01EE-	020Ea	SNEa	dDl
YTTr pecmb	102 1	17771	1E- 2-	1707E	17EE0	1N4S	dDl
YTTr pecmb	102 2	7a0S	702S	7442	7a00	1N02	dDl
YTTr pecmb	106 1	1- - 72	1- 616	1- 172	1- - E-	1N02	dDl
YTTr pecmb	106 2	16- aa	1017E	1014a	167E6	2N07	dDl
YTTpcmb	7E 1	1- a- 7a42	14161E66	1412EE11	1- E4- 40-	2N42	dDl
YTTpcmb	7E 2	12E- 71S	14146- a	14- 627-	1- 71a06	aN46	dDl
ZdCd	66 2	1- 0442	1- 4604	1- 6SSE	1- 6S42	1N82	dDl
ZqpdnCcmb	ES 1	0aS1E	0647a	0aE04	0a726	SNE7	dDl
ZqpdnCcmb	E1 1	10176	10- S-	101a-	10214	SN46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :u wb r :J	1S0q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	70677a	7ah77h	702ha2	76hhSh	1M82	dDl
qCTb nCE	121 1	47a1	4h4-	a117	4h0S	2M0-	dDl
qpl r Ccl	0a 2	1ha0	17h-	1h1S	1h2S	1M0-	dDl
Bwpcmb	1- a 1	64- 24-	6- 4771	64- a0a	64Sa66	SM00	dDl
Bwpcmb	1- 0 1	11- 61hS	111a- 4-	111h411	112- 647	SM17	dDl
Br pE8mb	h 1	2- 21	22a4	2240	2204	1M7S	dDl
Bdl b mTG	2Sh 1	6- 4- 770	67h- - 4a	0- 270S1	67aa- 11	0M2S	dDl
Bdl b mTG	2Sh 2	- - 41a14	- - 11h60	- S60hhh	- 24S4h-	4M0-	dDl
Bpmb cCr	71 1	60- a	6a67	6a- a	661-	1M62	dDl
5 wob cmb	1S7 1	1h6	1h6	177	1h-	2M4h	dDl
5 wob cmb	1S6 1	4226	44- 4	4- 42	4- - 4	2M41	dDl
5 wob cmb	111 1	2247	221a	2416	22h-	4M0h	dDl
5 w8lcmb	4- 1	- 0aahS	- 604S1	- 6h0- a	- 0ShSh	1M14	dDl
5 w8lcmb	44 1	6- 611aS	61h447h	61- 4hh1	62- S21S	1M77	dDl
5 wpenC	12 1	6h2764S	0S46S17	024a72S	0S0- 4h-	2M20	dDl
5 wpenC	12 2	74667	741- 2	7406h	74a2-	SM41	dDl
5 G8mpCr	- a 1	2SS744- -	2- S22274	24h62601	2267h0h6	1SM72	dDl
5 G8mpCr	- a 2	107SSh	174hh6	1702a7	17- 421	2M0-	dDl
5 Gpmb cmb	a2 2	- 7a12	- 7a4a	- h2h4	- 7074	1M14	dDl
5 new8T	ah 2	- 0060	- 0412	- 06S-	- 0ah4	SM40	dDl
5 nDDr p	6- 2	h1702	h2a22	h2- 07	h22a0	SM0	dDl
&El Dpnl cmb	1a6 1	a0S71	a6S6S	a70a4	a02hh	2M0	dDl
&El Dpnl cmb	1a6 2	2- a64	2- 1a-	2- 6S7	2- 442	1M80	dDl
Fpecmb	164 1	462- h	4a- 11	461a6	4ahS2	1M12	dDl
Fpecmb	164 2	17660	171- h	17266	17- a0	1M4S	dDl
Hwon8Cmb	16S 1	aS270	a21h4	a1a60	a1- aS	1M7h	dDl
Hwon8Cmb	16S 2	2- 771	2- 04a	2- 70a	2- 7- 4	SM12	dDl
y n8b cmb	16a 1	7hh70ha	hh7420-	1S1416- 0	h0S72- a	6M7	dDl
y n8b cmb	16a 2	4- - aS6a	4221676	- h7a07a	417S74a	4M26	dDl
tCocmb	11a 1	6ah107-	0114Sh4	0101170	6hahS21	4M4h	dDl
tCocmb	11a 2	h7hS42	h60240	707772	h4aSa0	6M10	dDl
tpnC	a4 2	2060a2a	267762-	20SS22h	20170h2	1M40	dDl
tpnC	a6 2	476S7h76	4001hh17	47- 04a2-	472- 4406	SM16	dDl
tpnC	a0 2	1166ha7	11a2- h4	114174a	11a- 0- 2	1M8h	dDl
KpEDTnC	7- 1	- 14	- - 1	- 42	- 2h	4M4S	dDl
Lr wo	2S6 1	46a- 01	40a417	46202S	4607- 6	1M4-	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :uwb r :J	1S0q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	- 76S41	- 70ahS	- 74ah2	- 76S04	SMh	dDl
Lr wo	2S7 1	17166- a	17- 10hh	17- 0h60	17277S1	SM8S	dDl
LdTgmb	6 1	24S06S-	26- 66h1	20212- -	2a77aSh	6M20	dDl
9 wgCr l cmb	24 2	7S672-	7SS121	0hh046	7S22- S	SM4S	dDl
9 wCgwCr l r	aa 2	a020- 2	a602a1	a6012-	a6hS- a	SM46	dDl
9 n8Eeor Cmb	h4 1	16- 6S	10ha4	10S44	1011h	4M60	dDl
9 n8Eeor Cmb	ha 1	44Sh	4aS1	4- S1	44S4	2M20	dDl
9 n8Eeor Cmb	h6 1	7S61	0- 00	011h	0a1h	6M40	dDl
9 n8Eeor Cmb	h0 1	- Sah	2042	2674	2727	0M14	dDl
9 n8Eeor Cmb	h7 1	0S6S	0S- a	0a20	02S7	- M74	dDl
u r noEb cmb	1aS 1	h- a00	h10Sa	h424h	h- 100	1M41	dDl
u r noEb cmb	1aS 2	2721-	27S1-	20042	20h7h	SM74	dDl
u cdkr 8	6S 2	100S4	17- a2	107aa	10h0S	1M7h	dDl
NGhl DGhpml	- 1 2	6167	ah1S	6a17	61hh	4M1-	dDl
NnTwl l cmb	- h 2	a20447	a11a71	a1hh60	a1h66a	1M4-	dDl
. Ghocmb	1S- 1	6407- ah	0S- 210-	011S7- 0	670- 07h	aM81	dDl
. Ghocmb	1S- 2	- 2h- 41a	- - 1227-	- S- 4216	- 21- - Sa	4M74	dDl
l dwCocmb	4a 1	4- 2aaa4	46a0aah	47162- 6	4ahh07-	aM44	dDl
l dwCocmb	4a 2	14h1S1	146S6-	1- 17- 4	142- - -	6M47	dDl
l r 8 Ccmb	72 1	110	112	71	1S4	17M1-	dDl
l r 8 Ccmb	00 2	0-	1- S	120	11S	27M1	dDl
l r 8 Ccmb	07 2	76	74	66	0h	14M8S	dDl
l 8dnC	27 1	1Sh721a1	11127- 06	1Sha- a11	11S21- 46	SM7a	dDl
l 8vr p	1S0 1	2S- 4	2SSh	2S10	2S2S	SM0-	dDl
l 8vr p	1Sh 1	17h2	1760	1742	1760	1M4	dDl
l nocmb	2- 2	ah7- 2	a7044	6S- - -	ah6- 0	1M6	dDl
l TpnCTcmb	76 1	7- 041-	7- h067	7a4402	74- 774	1M1S	dDl
l TpnCTcmb	77 1	06100a0	060- 4- h	044- S7h	0a07Sha	1M4h	dDl
l m8mp	- 4 1	- 2- h6a	- 11716	- Shaa6	- 1a11-	2M46	dDl
Ar pecmb	1ah 1	h166a42	1S- 6702a	1S46- 647	hhhh6- 7	0M2-	dDl
Ar pecmb	1ah 2	4- 261aS	4S00a14	- h1a- S2	41S6- 22	aM84	dDl
AGw8mb	2S- 1	2S74	1760	2S- 4	1hha	aM0h	dDl
AGw8mb	2Sa 1	46- 4	4hSh	a- 6S	4h67	0M0	dDl
AdC	117 1	11602	11S21	11614	114- 6	- M1a	dDl
AdTwCcmb	40 1	7ha1-	7h126	77h10	7h176	SM4	dDl
RpwCcmb	2- 7 1	6- S2-	6- 626	6- SS6	6- 21h	SM46	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SUa4	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17JS1Ja1	&wTwUd8 :u wb r :J	1S0q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	a1 2	6hShh	670a0	6720h	67012	SM8S	dDI
YTTr pecmb	102 1	1447-	1a106	1- 7hh	14a1h	4M4S	dDI
YTTr pecmb	102 2	6424	017S	6h1h	6741	aM01	dDI
YTTr pecmb	106 1	hh0h	1S06-	1S- h6	1S- 0h	- M07	dDI
YTTr pecmb	106 2	1a701	16Shh	1a1a-	1a0S7	- M14	dDI
YTTpcmb	7h 1	12- h1407	1- - 17471	1- 4h- 427	1- S600h6	4M4-	dDI
YTTpcmb	7h 2	14Sh061	14- - 0aS	1216a0a	1- a- - 62	7M7S	dDI
ZdCd	66 2	07- 02	0h24S	07- a2	076aa	SM04	dDI
ZqpdnCcmb	hS 1	- 74ha	- 707S	- h7S7	- hS27	1M00	dDI
ZqpdnCcmb	h1 1	h1S-	77S-	72S-	70S-	aM20	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RRen&psml Re:D :J	5 9 SFyy	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7cC. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	61264S	6110- 6	yh0761	6S0412	1U6	ql w
cn&AmonE	121 1	1760	2110	2SSh	1hh0	6U27	ql w
crwenAq	0y 2	1417	1- 1y	126-	1- - 2	yUh2	ql w
BsrAm	1- y 1	411h6S	411- 41	4S6466	4Shh22	SU0-	ql w
BsrAm	1- 0 1	0- Sy26	0- 2S2y	01S0- 4	024427	1U64	ql w
BerEPAm	h 1	1622	1y76	16Sy	16S4	1U1-	ql w
BAmu&G	2Sh 1	01S4Sh4	6h0- S67	6774026	6h702h6	1Uy7	ql w
BAmu&G	2Sh 2	- 26- 1S2	- 1y0hS2	- 277177	- 2- 6- h0	2U14	ql w
BromAne	71 1	47yh	yy7y	y2y1	y2- 2	6Uh4	ql w
RsOmAm	1S7 1	0y	1- 7	h6	1S-	- SUh6	ql w
RsOmAm	1S6 1	- h60	- hy1	- 0- 4	- 774	- Uy	ql w
RsOmAm	111 1	11- 6	11- 6	1S6h	1114	- U4h	ql w
RsRqAm	4- 1	20271h	2026yS	2044y7	20- - Sh	SUy0	ql w
RsRqAm	44 1	462- 1h0	4yy61yy	467- 442	462Sh- 1	1Uy7	ql w
Rsrbon	12 1	- - 20- 1h	- - hhh04	- 40S7y6	- - hh- 7-	2U11	ql w
Rsrbon	12 2	4Sh4h	4S- 71	4S1Sy	4S407	1US6	ql w
RGRorAne	- y 1	2S- 0217S	2- 662y71	2y200710	2- 1S41h-	1SU72	ql w
RGRorAne	- y 2	17- 22-	17647S	17042y	17y01S	1U1h	ql w
RGromAm	y2 2	24211	24077	2- 7- S	24206	1Uh	ql w
RobsR&	yh 2	2y7yS	2y6h-	2y216	2yy76	1U2h	ql w
RolI er	6- 2	47127	471S7	4726y	47160	SU17	ql w
t EwI rowAm	1y6 1	4S1y2	412h7	4S- 07	4S61S	1U4h	ql w
t EwI rowAm	1y6 2	16760	167y1	16000	167- 2	SU27	ql w
. rbAm	164 1	- 41- 6	- 4- y4	- - - S1	- - h- S	1U64	ql w
. rbAm	164 2	1- 11-	1- 210	127hS	1- S0-	1U27	ql w
HsOoPAm	16S 1	- 0- 27	- 01- 6	- 6yy1	- 0SSy	1USh	ql w
HsOoPAm	16S 2	10- 01	10447	102- 7	10- y-	SU61	ql w
9 oPmAm	16y 1	1S1yy14h	1SSyh- h2	h07S2S6	hhh724h	1Uhy	ql w
9 oPmAm	16y 2	41yS77y	41yS66-	4224y4h	410y- 66	1US2	ql w
DnOAm	11y 1	016y4- 0	024407S	01- 2- 44	017S7y4	SU7S	ql w
DnOAm	11y 2	h- S2y0	h24- 4h	h- 20h4	h2h1- 4	SU40	ql w
Don	y4 2	17y0444	171474S	107ShhS	17100y7	2U11	ql w
Don	y6 2	- - 16- 67-	- 2y- S0y6	- 221011y	- 26- 017y	1U47	ql w
Don	y0 2	07S414	000- 06	002y- 7	006006	SUy1	ql w
KrEI &on	7- 1	- S6	2hh	20y	2h-	yUy6	ql w
LesO	2S6 1	21yh47	2Shh- -	2S74hy	2114y7	1U70	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SFyy	t AR&on:Fsq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
LesO	2S0 1	100y70	10y- y1	104h- 0	10yhy7	SU71	ql w
LesO	2S7 1	746- 74	726y77	716- y4	72h00y	1U74	ql w
LA&GAum	6 1	267SS1S	26S00S6	26yy0h4	26407- 0	1Uh	ql w
5 sgnewAum	24 2	6S64- 6	61S6- 7	6116S-	6Shyyh	SU4y	ql w
5 sngsnewe	yy 2	- 7S270	- 0204y	- 60471	- 0- yS4	1U02	ql w
5 oPEbOenum	h4 1	1S- 6-	h7- 0	1S6S4	1S267	- U72	ql w
5 oPEbOenum	hy 1	2y2y	2274	2- yS	2- 76	yU2-	ql w
5 oPEbOenum	h6 1	4242	42h2	4110	4210	2U14	ql w
5 oPEbOenum	h0 1	1y10	1- S7	142y	1410	0U0	ql w
5 oPEbOenum	h7 1	- 7yh	- 642	- y06	- 6h2	4US1	ql w
NeoOEmAum	1yS 1	6hy4S	6h727	6h101	6hy1-	SU40	ql w
NeoOEmAum	1yS 2	2Sh- -	2S2- h	2Syy-	2Sy0y	1U6h	ql w
NAqkeP	6S 2	1- 01S	12hSh	1- y- 0	1- - 7y	- U1y	ql w
8 GowI Goruw	- 1 2	24- 4	24SS	21h2	2- 42	yUyh	ql w
8 o&swwAum	- h 2	2S7271	2Syh02	2S- 440	2SyhSS	1U10	ql w
CGoOAum	1S- 1	012y4y-	011- 274	01Sy0y-	01147- S	SU14	ql w
CGoOAum	1S- 2	- 2216- 6	- 160y77	- 106266	- 1774h0	SUh1	ql w
pqsnOAum	4y 1	400- 21h	40S- 4- h	40261- -	40- 426-	SU0y	ql w
pqsnOAum	4y 2	14210y	1- h6- 7	1- h762	14Syy7	1USS	ql w
pe&enAum	72 1	20	- y	h2	y2	67U74	ql w
pe&enAum	00 2	h-	6-	h0	74	21U04	ql w
pe&enAum	07 2	06	67	0y	0-	yUh0	ql w
pARqon	27 1	7h46h- -	h- S2yh4	h22- S- 6	h1y0y21	2US4	ql w
pARer	1S0 1	h42	h7-	1Sy7	hhy	yUhy	ql w
pARer	1Sh 1	1SSS	h7-	742	h42	hU24	ql w
poOAum	2- 2	hS- h6	h1SS7	7h416	hS204	SU7h	ql w
p&on&Aum	76 1	y044S0	yh0612	y7yS1h	y7y60h	1Uh7	ql w
p&on&Aum	77 1	y1h010y	y4- 17h0	y277771	y- Syh74	2U2-	ql w
puPur	- 4 1	204471	200y20	206yS1	20610S	SUy6	ql w
i erbAum	1yh 1	1S- 7h760	1S212600	1S2h147S	1S2h7SS7	SU76	ql w
i erbAum	1yh 2	41yhh42	- 70- 17y	4S16h7-	4S160S-	- Uy0	ql w
i GsPAum	2S- 1	1- 7-	1y10	1y2y	140y	yUh	ql w
i GsPAum	2Sy 1	- 742	- 760	- 642	- 074	- U26	ql w
i An	117 1	04y2	0y1h	0- 20	04- -	1U1	ql w
i A&snAum	40 1	y66- 7	y01- h	y0742	y02S6	1US6	ql w
MrsnAum	2- 7 1	- - 227	- 26y1	- 46y6	- - y12	- US7	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S-	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SFyy	t A&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS4J47	t s&sFAe:Nsme:J	1S7c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	y1 2	44171	44SS0	4- 070	4- hh2	SU4y	ql w
Y&erbAum	102 1	1S26-	1S16-	1SS0h	1S167	SUhS	ql w
Y&erbAum	102 2	yS2h	4- y6	4012	46hh	0U16	ql w
Y&erbAum	106 1	0011	7S76	02- y	0600	yUyy	ql w
Y&erbAum	106 2	14- 14	14- 40	141- 6	1426y	SU7S	ql w
Y&&Aum	7h 1	1- - 2- 464	1- 6yy7h2	1- 007- 02	1- y7yh1S	1U0-	ql w
Y&&Aum	7h 2	120717S	1261h12	12y0SS1	126y6h7	SU77	ql w
ZAnq	66 2	- 2- 4S	- 1h0-	- 140y	- 1h2h	1U16	ql w
ZAqonAum	hS 1	22744	24y22	2- 0h6	2- 021	- Uyy	ql w
ZAqonAum	h1 1	y4S1	y026	y0S1	y61S	- U2-	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	87
5 Ren&psml Re:D :J	9 y SUh6	t AR&on:Usq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	58p1	58p2	58p-	58p9esn	58p. pt	Rn&w
cRmAAm	20 2	70hS60	762S7C	7h71S7	76hS77	1M3-	ql w
cn&AmonE	121 1	- 2- 4	- - 06	- 1SC	- 2- C	4M12	ql w
crwenAq	0h 2	h- 4C	h20C	h12C	h2h2	2M1-	ql w
BsrAm	1- h 1	4C1S42	47C066	47- 20h	477S27	SM7h	ql w
BsrAm	1- 0 1	76627h	70h471	76- h77	7674h1	SM02	ql w
BerEPAm	C 1	2621	261C	2h7h	26S7	SM07	ql w
BAmu&G	2SC 1	0ShSS1h	6CS- 47C	0S6- 1SC	0SShh- 7	1M26	ql w
BAmu&G	2SC 2	2771C4S	- 17- SC-	- 1Ch67C	- S76CS7	hM0h	ql w
BromAne	71 1	616S	627h	6420	62CS	2M12	ql w
5 sOmAm	1S7 1	16-	12C	1S4	1- 2	22M17	ql w
5 sOmAm	1S6 1	4142	- C42	- CS1	- CCh	- M4-	ql w
5 sOmAm	111 1	1CSC	10h7	1006	1714	4M1h	ql w
5 sRqAm	4- 1	24- C64	240- Sh	2476Sh	246624	SM00	ql w
5 sRqAm	44 1	4201SC1	4160- 7-	4140- 2C	41Ch267	1M17	ql w
5 srbon	12 1	- 71S022	- C22176	- 7C2C06	- 70h2Ch	1M4C	ql w
5 srbon	12 2	46066	40h20	40SS1	40SC7	SM7-	ql w
5 GRorAne	- h 1	2S40C202	2- h464S0	2h0S262S	2- 242066	11M2C	ql w
5 GRorAne	- h 2	176044	1C- 16S	1C4640	1C1h10	2M1C	ql w
5 GromAm	h2 2	01420	0S- 72	0S640	0S71C	SM00	ql w
5 obsR&	hC 2	076- C	0676S	004SC	006- 6	1M10	ql w
5 ol l er	6- 2	14- h7h	14S121	142Ch2	14221C	1MS	ql w
t EwI rowAm	1h6 1	60C72	0S6Ch	677h-	6C100	2M3S	ql w
t EwI rowAm	1h6 2	270- 4	27047	27711	27064	SM14	ql w
FrbAm	164 1	h771h	6SSC4	hC610	hChSC	1M3C	ql w
FrbAm	164 2	24122	2- 10S	2- - 11	2- h- 4	2M17	ql w
HsOoPAm	16S 1	6446h	640C1	64616	64624	SM2h	ql w
HsOoPAm	16S 2	2C06S	2C- 2C	2CS72	2C- CS	1M10	ql w
y oPmAm	16h 1	1SSh4- 20	1SS060S2	C0402- -	CChC421	1M7h	ql w
y oPmAm	16h 2	- 6S61S1	42SS42h	412- 606	- C060- 4	7M1-	ql w
DnOAm	11h 1	0247760	0S6h- 6C	6Ch6420	0SCS221	2M37	ql w
DnOAm	11h 2	7S1- 74	C44276	C- 1641	7C24- 0	7M76	ql w
Don	h4 2	42S1h- h	41174S7	41C7h26	410272-	1M1-	ql w
Don	h6 2	0h046S67	047C21CC	040- 74C1	0h12hh76	SM02	ql w
Don	h0 2	1C6SSh0	1C- C60S	1C64h67	1Ch406h	SM67	ql w
KrEI &on	7- 1	- SC	- S1	- - 6	- 1h	hM74	ql w
LesO	2S6 1	- 2h6SC	- 26C- 1	- 24446	- 2h662	SM7	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&br:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	Rn&w
LesO	2S0 1	26h760	2677hC	266244	266CCS	SM61	ql w
LesO	2S7 1	12621- 6	12010S0	1262hC1	126h407	SM4-	ql w
LA&GAum	6 1	26- hh4-	26- 77S7	260- 02C	264C- 6S	SM7S	ql w
9 sgnewAum	24 2	1277h72	12- 4667	12hCC7C	1261S7S	2M14	ql w
9 sngsnewe	hh 2	10441- 6	1011C22	1044Chh	10- - 601	1M3C	ql w
9 oPEbOenum	C4 1	1- S71	11C22	11014	122- C	6M32	ql w
9 oPEbOenum	Ch 1	hC1S	h7- h	62- h	hCC-	- M1h	ql w
9 oPEbOenum	C6 1	071C	7107	066C	077C	- M1	ql w
9 oPEbOenum	C0 1	- 010	- 060	- C06	- 72S	- M1C	ql w
9 oPEbOenum	C7 1	C42S	C2Ch	C7h4	Ch2-	- M37	ql w
NeoOEmAum	1hS 1	1116S0	1SCh- 6	11S4- 0	11Sh26	SM04	ql w
NeoOEmAum	1hS 2	- - hS2	- 24h6	- - - C2	- - 110	1M04	ql w
NAqkeP	6S 2	hS720	hSS67	4C2h7	hSSh1	1M10	ql w
8 GowI Goruw	- 1 2	4- SC	40hC	4C26	466h	6M74	ql w
8 o&swwAum	- C 2	4C7S0S	4C4S1C	4C2716	4C4C67	SM16	ql w
. GoOAum	1S- 1	01C4C07	0SC7hCC	01SSS01	01- 1216	SM00	ql w
. GoOAum	1S- 2	207h42S	- 2h2h46	- 2S4- 07	- S7S072	7M4	ql w
pqsnOAum	4h 1	40Sh067	40S6161	40- 72S-	4016011	SM-C	ql w
pqsnOAum	4h 2	12S4h-	14- S72	14- 111	1- hh4C	CM64	ql w
pe&enAum	72 1	- 06	- 4h	2C0	- 4S	11M67	ql w
pe&enAum	00 2	C0	11-	12-	111	12M12	ql w
pe&enAum	07 2	127	112	1S1	114	11M04	ql w
pAqon	27 1	1- 6h4- 66	1- 4- h4h-	1- 404C27	1- h21h7-	SM76	ql w
pAer	1S0 1	2- SC	22SC	2- 10	2207	2M0h	ql w
pAer	1SC 1	2- 74	2S10	2S2h	2142	CM07	ql w
poOAum	2- 2	1S0- 4-	1SC- 7-	1S7167	1S72C7	SM0h	ql w
p&ona&Aum	76 1	2S1674	2S14h6	2SS007	2S1- S6	SM2-	ql w
p&ona&Aum	77 1	171- - 47	17707h1	176h64C	17hh616	2M36	ql w
pu&ur	- 4 1	2071h7	204hh6	20- S12	20h242	SM06	ql w
i erbAum	1hC 1	1S- 206C1	1SS007S0	1S12C647	1S107- 72	1M-S	ql w
i erbAum	1hC 2	- hh2474	- Ch2SSS	41- 02hC	- 77Sh71	0M0S	ql w
i GsPAum	2S- 1	2CSC	- S0h	- S0h	- S2S	- M1C	ql w
i GsPAum	2Sh 1	67S2	0- h2	607h	6C7S	4M62	ql w
i An	117 1	6S26	646S	6- S2	626-	- M1S	ql w
i A&snAum	40 1	4Ch0C	4C012	4C- h-	4Ch47	SM10	ql w
RrsnAum	2- 7 1	0SSh4	02S02	01C77	01- 01	1M0S	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&br:J	aswl sP
Lsb:psml Re:D :J	3 - 447 S4	Dw&umne&Nsme:J	8 7
5 Ren&psml Re:D :J	9 y SUh6	t Ra&on:Usq&br:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17JS0J47	t s&sUAe:Nsme:J	1SCc. FUM0

8srsme&er	9 sww	5 8p1	5 8p2	5 8p-	5 8p9 esn	5 8p. pt	RnA&w
VsnsOAum	h1 2	1S4216	1S24S4	1S262h	1S- S72	SM06	ql w
Y&erbAum	102 1	17h7S	17CS6	107- 7	17441	2M00	ql w
Y&erbAum	102 2	7S0h	7442	760h	7- C0	- M4S	ql w
Y&erbAum	106 1	1272-	1- 6S0	1- 7h7	1- 42C	4M52	ql w
Y&erbAum	106 2	1h601	10127	10612	167S4	6M31	ql w
Y&&Aum	7C 1	1- CSh22C	1- 64SS6C	1- 6641C0	1- 0- 64C7	1M30	ql w
Y&&Aum	7C 2	11474S-	1- 16771	142hS06	12C6070	1SM0h	ql w
ZAnq	66 2	60674	60S77	66S- 6	66C- 6	1M2h	ql w
ZAqonAum	CS 1	24402	244S6	24h02	2447-	SM4	ql w
ZAqonAum	C1 1	h- 06	hh26	h017	hh4S	- M3C	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wb D8 Jt&JaJ	9 y SU6h	&8mTmCJJwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
q8mb cCcmb	20 2	1- h: 141	1- 01464	1- 7S612	1- 724S6	SM16	dDl
qCTb nCE	121 1	4426	44: 1	- hS1	42: h	0M2h	dDl
qpl r Ccl	0: 2	4S4:	410S	- h67	4S61	2M1	dDl
Bwpcmb	1- : 1	: 16: S:	: 2- 12h	: 12- 7-	: 10- - h	1M8:	dDl
Bwpcmb	1- 0 1	hS67S-	h1- - hS	h24242	h14712	SM16	dDl
Br pE8&mb	h 1	- h64	4S66	- h66	- hhh	1M46	dDl
Bcl b mTG	2Sh 1	: h210S4	606141h	6h4h417	6: 44171	7M6	dDl
Bcl b mTG	2Sh 2	- 2h0- S1	- 200106	- 2024S6	- 2722h4	SM4S	dDl
Bpmb cCr	71 1	h22S	h6- 0	h: 70	h471	2M4S	dDl
5 wob cmb	1S7 1	210	21-	177	2S6	0M60	dDl
5 wob cmb	1S6 1	41- 4	4206	42: 1	422S	1M0h	dDl
5 wob cmb	111 1	2424	2401	2461	24: 2	SM1h	dDl
5 w8lcmb	4- 1	020- S:	022- 4:	01h264	022h01	SM16	dDl
5 w8lcmb	44 1	1227424S	1222: - 6-	11h6: 0: -	121: 74: 2	1Mh	dDl
5 wpenC	12 1	: 4h202h	: 67427-	: 6- 1662	: 6S27h1	1M00	dDl
5 wpenC	12 2	67SSS	6706h	60277	67S1h	1M8h	dDl
5 G8hpcCr	- : 1	17h1: 402	210S6416	2- 1h0h2-	2120- 201	1SM22	dDl
5 G8hpcCr	- : 2	167h00	101hh6	101: 4S	10S7- 0	SM1:	dDl
5 Gpmb cmb	: 2 2	67767	6742-	66722	67S- 7	1M7	dDl
5 new8T	: h 2	611- S	62- - h	62S21	617- S	1M81	dDl
5 nDDr p	6- 2	112: 1:	112h67	11- : 2-	11- SS2	SM4:	dDl
&El Dpnl cmb	1: 6 1	1SSh- S	1SS14h	h6S76	hhS: :	2M0-	dDl
&El Dpnl cmb	1: 6 2	41S0S	4S002	- h70h	4S: 04	1M-	dDl
Fpecmb	164 1	7- 0- S	741- -	74410	74Sh4	SM41	dDl
Fpecmb	164 2	- - : 66	- - : S6	- 2hS4	- - - 2:	1M1S	dDl
Hwon8Ccmb	16S 1	hS- : 6	7h460	7h2: 6	7h6h-	SM0:	dDl
Hwon8Ccmb	16S 2	41424	4S022	4S7- -	4Shh-	SM12	dDl
y n8b cmb	16: 1	7007711	h6664- 4	hh- 1027	h4: 7hh1	6M7	dDl
y n8b cmb	16: 2	4- 402S1	42- : 02:	41h4h- h	42: h277	1M7:	dDl
tCocmb	11: 1	6247h74	0S- 1h1-	6h76: hS	60: : 72h	6M1	dDl
tCocmb	11: 2	h62Shh	h61- : 4	h47676	h: 0- 7S	SM0h	dDl
tpnC	: 4 2	44: : 602	4466h: 7	441477:	444: 7- 7	SM02	dDl
tpnC	: 6 2	7S626624	7S: 16020	0hh7h61S	7S- 006: 4	SM42	dDl
tpnC	: 0 2	2S0774h	2Sh- S: :	2S62: S:	2S071- 0	SM04	dDl
KpEDTnC	7- 1	- : h	- 7:	- 0h	- 04	- M00	dDl
Lr wo	2S6 1	4S2: 47	4S: 70-	- hh421	4S2614	SM7S	dDl

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Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU6h	&c8mTcnCJJwdTnpla	1
&wTr J JAcb r JqdCmpr o Ja	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S0 1	- - : 00h	- - 40S7	- 27S61	- - 274h	1M26	dDl
Lr wo	2S7 1	1: 701: 1	1: 7121-	1: : 22: 2	1: 0- : - h	1M1h	dDl
LcTGcmb	6 1	2- 024S1	26: 2424	2617Sh7	2: 40641	: M1h	dDl
9 wgCr l cmb	24 2	1011: 62	10: 07- h	16h6S11	10217S4	1M70	dDl
9 wCgwCr l r	: : 2	7h0177	hS7: h7	7h21h2	7hh- 26	SM14	dDl
9 n8Eeor Cmb	h4 1	227- 6	22120	21- : S	221S4	- M6	dDl
9 n8Eeor Cmb	h: 1	7h70	76- 6	76h:	7002	2M14	dDl
9 n8Eeor Cmb	h6 1	127h7	1260-	12271	12610	2M47	dDl
9 n8Eeor Cmb	h0 1	: 006	: h7:	: 04-	: 7- :	2M2:	dDl
9 n8Eeor Cmb	h7 1	1472:	1: : - 4	14: S7	14h: 6	- M1	dDl
u r noEb cmb	1: S 1	1: h602	1: h- S7	1: 7772	1: h277	SM2:	dDl
u r noEb cmb	1: S 2	40hhh	40: : 1	40- : S	406- -	SM0S	dDl
u cdkr 8	6S 2	44744	44: - 6	44h41	44004	SM40	dDl
NGhl DGhpml	- 1 2	- h42	41: 1	4410	410S	: M01	dDl
NnTwl l cmb	- h 2	: 2S: 12	: 2: 72S	: 2242-	: 22h17	SM1	dDl
. Ghocmb	1S- 1	611: - 67	0S6- 64h	6h: S7: 6	60Shh: 0	0M02	dDl
. Ghocmb	1S- 2	- 2- 0S04	- - 27h71	- 22616h	- 264S0:	1M0-	dDl
l dwCocmb	4: 1	4S14461	4: : - h41	40SS- - 0	4422h1-	7M10	dDl
l dwCocmb	4: 2	147h40	146- : S	1440S0	146667	1M46	dDl
l r 8 Ccmb	72 1	- 74	216	- 2S	- S0	20M0	dDl
l r 8 Ccmb	00 2	210	2S-	210	212	- M0-	dDl
l r 8 Ccmb	07 2	117	1- 1	1: S	1- -	12M1S	dDl
l c8dlnC	27 1	12: - - - S0	126h221:	12176: 1-	1240S607	2M80	dDl
l c8vr p	1S0 1	2: Sh	2: 42	24: S	2: SS	1M76	dDl
l c8vr p	1Sh 1	220:	2260	2210	22: -	1M4S	dDl
l nocmb	2- 2	07Sh-	07: h:	00hSS	071h6	SM46	dDl
l TpnCTcmb	76 1	271- 21	27- - 00	202- 14	20hSS4	2M11	dDl
l TpnCTcmb	77 1	26S7: - 1	2: - 7666	2: : 0746	2: 67- 47	1M41	dDl
l m8mp	- 4 1	2h0- 72	2h0S42	2h0677	2h0- 01	SM11	dDl
Ar pecmb	1: h 1	77- SS22	hh1S07h	1SSSS- Sh	h: 7S- 0-	6M7S	dDl
Ar pecmb	1: h 2	410S2- :	411: 702	42: 7S1S	4171- 02	1M02	dDl
AGw8cmb	2S- 1	444-	4: : h	46- 4	4: 4:	2M1-	dDl
AGw8cmb	2S: 1	1S0: :	1Shh0	1S702	1S704	1M11	dDl
AcC	117 1	1777h	17Sh6	1h40-	1771h	- M60	dDl
AcTwCcmb	40 1	00Shh	0002S	06hhh	00202	SM11	dDl
RpwCcmb	2- 7 1	0: 1: 6	04h1-	0- : - S	04: - -	1M17	dDl

786

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwTnpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TLu wb r Ja	N7
5 8r CTL wb D8 Jt&Jal	9 y SU6h	&8mTcnCJUwdTnpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a1Sa4-	&wTwUc8 Ju wb r Ja	11Sq. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwocmb	: 1 2	112- h0	11SS7S	111110	1111h7	1M84	dDl
YTTr pecmb	102 1	267: -	2601h	2601h	26064	SM2h	dDl
YTTr pecmb	102 2	12460	12h12	1- - 17	127hh	- MS	dDl
YTTr pecmb	106 1	1hS2-	10: - 0	17: S:	17- : :	4M1	dDl
YTTr pecmb	106 2	1h: - 1	2SS4h	1h- 0S	1h6: S	1M1	dDl
YTTpcmb	7h 1	124S0S: -	1- 04116h	14Sh4: 10	1- 414246	6M-	dDl
YTTpcmb	7h 2	14: - 4- :	14: 1: 67	146S11-	14: : S- h	SM1	dDl
ZcCd	66 2	0- 044	0- : - S	0- - h6	0- : : 6	SM24	dDl
ZqpdnCcmb	hS 1	40114	46244	44- h6	4: h17	- M2	dDl
ZqpdnCcmb	h1 1	11S- S	1SS70	1S6h6	1S6S4	4M1	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wo D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tu wo r :J	N7
5 8r CTI wo D8 :t&:J	9 y SU0S	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wo r :J	111q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
q8mb dCmb	20 2	7S46a7	7S11SS	0a041a	7S1S0-	SM4h	dDI
qCTb nCE	121 1	a6- 0	1S112	aa62	aaS4	2M4h	dDI
qpl r Cdl	0h 2	11S61	1Saha	1Sa7-	11SS1	SM4a	dDI
Bwpcmb	1- h 1	ha2- 42	ha7206	6SS60-	ha0Sa0	SM02	dDI
Bwpcmb	1- 0 1	1S14670	1Sh21h0	1S722a2	1S4a012	- M4-	dDI
Br pE8mb	a 1	h0- 2	h774	h6h0	h0h7	2M81	dDI
Bdl b mTG	2Sa 1	604a6- -	0Sa0a17	6a- h0h0	6a2006a	2M12	dDI
Bdl b mTG	2Sa 2	- 21h42S	- - 706h7	- - aS00-	- - - 1274	- M81	dDI
Bpmb dCr	71 1	6067	6620	027h	67a4	hM8-	dDI
5 wob cmb	1S7 1	42h	h21	4SS	44a	14M22	dDI
5 wob cmb	1S6 1	hSh1	47a-	4a06	4a0-	1M4a	dDI
5 wob cmb	111 1	hShS	4a60	4717	4a4h	2M0	dDI
5 w8lcmb	4- 1	0- S76h	0- hS72	020a20	0- 12a1	SM4a	dDI
5 w8lcmb	44 1	12h4- h- 7	12612177	12- - a- - 0	124a7- hh	1M14	dDI
5 wpenC	12 1	h6S- 0- 0	h0a40- S	h004117	h0241ah	1M7-	dDI
5 wpenC	12 2	67644	0S106	01- S6	0SS42	1M41	dDI
5 G8hpdCr	- h 1	1a41S276	226a42- -	24hh0SSh	2222ShS7	11M0-	dDI
5 G8hpdCr	- h 2	17147h	172- 01	17h76h	17- 24S	1M26	dDI
5 Gpmb cmb	h2 2	4- 000	4- SS7	42710	4- 2S1	1M17	dDI
5 new8T	ha 2	4h000	44744	44h7-	4hS67	1Ma	dDI
5 nDDr p	6- 2	141a06	1- 7620	1- 7044	1- a072	1M6	dDI
&El Dpnl cmb	1h6 1	14h2- 0	14hha7	14hh62	14h466	SM14	dDI
&El Dpnl cmb	1h6 2	6Shh-	h0041	h0hSS	h7ha7	2M4S	dDI
Fpecmb	164 1	1S- 7aa	1S27h6	1S4a- S	1S- 7ah	1M8S	dDI
Fpecmb	164 2	41076	4Saa-	41421	414SS	SM46	dDI
Hwon8Cmb	16S 1	121S2-	12277a	11a620	12117S	1Mh	dDI
Hwon8Cmb	16S 2	h0762	h6S01	hh00-	h6h6a	2M8S	dDI
y n8b cmb	16h 1	aa7117S	1S2a4h1h	a70142-	1SS4aS4S	2M17	dDI
y n8b cmb	16h 2	417h26S	4- - 7660	4- a7626	4- S0h17	2Mh	dDI
tCocmb	11h 1	01S420h	0- S07h2	027404S	02- 227a	1M14	dDI
tCocmb	11h 2	a44S7a	aa1- - S	a0h4- 2	a0S27-	2M17	dDI
tpnC	h4 2	4- 6- S- 6	421- - 10	41- h702	42- 04S7	2M0-	dDI
tpnC	h6 2	0701- h17	0646a046	00S401h2	0041S1- a	1M1	dDI
tpnC	h0 2	2S1h- SS	1a6- aS2	1a66h00	1a71a26	1M46	dDI
KpEDTnC	7- 1	- 60	41S	- hS	- 06	7M21	dDI
Lr wo	2S6 1	1- 024- 6	14SS467	1416140	1- a6- hS	1Ma	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 16	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU0S	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	1162442	1101a14	116a10-	116074-	SM42	dDl
Lr wo	2S7 1	h67- 17a	h710a1a	h0aa1a4	h066060	1M20	dDl
LdTGmb	6 1	26401a0	26a1S7S	266- 46-	2660240	SM7-	dDl
9 wgCr l mb	24 2	211266h	2117h06	2Sh727S	2Sa6hS0	1M1a	dDl
9 wCgwCr l r	hh 2	1602400	1642626	16- 2- 76	164a16-	1M26	dDl
9 n8Eeor Cmb	a4 1	2ah72	276hh	2aS7a	2a1Sa	1M1a	dDl
9 n8Eeor Cmb	ah 1	2S466	21- 0h	2SahS	2Sa- S	2M10	dDl
9 n8Eeor Cmb	a6 1	2h424	2h6h7	2h64a	2hh00	SM42	dDl
9 n8Eeor Cmb	a0 1	1- S1h	1- - h0	12771	1- S74	1M70	dDl
9 n8Eeor Cmb	a7 1	- - 124	- - 416	- - a10	- - 476	1M2S	dDl
u r noEb mb	1hS 1	2hS24S	24aa6S	2h- 277	2h116-	SM04	dDl
u r noEb mb	1hS 2	0670h	04h7-	0- 242	04aSS	2M4h	dDl
u cdkr 8	6S 2	2- - Sa	226S7	22SS0	22641	2M77	dDl
NGhl DGhpml	- 1 2	4410	4hha	4hha	4h12	1M71	dDl
NnTwl mb	- a 2	61- a7S	611a- h	61Sa11	61220h	SM26	dDl
. Ghomb	1S- 1	6a61720	012h2- 1	0161hhS	0S7276a	1M1S	dDl
. Ghomb	1S- 2	- 2424- S	- - a1aS4	- - 6h- 6a	- - - - 2- 4	2Ma	dDl
l dwComb	4h 1	4061h0S	47ah1h-	4074hha	471- 061	1M47	dDl
l dwComb	4h 2	144h60	1h217a	1h24- 4	14a0- S	2M4a	dDl
l r 8 Cmb	72 1	2- S	1aa	226	217	0M72	dDl
l r 8 Cmb	00 2	- SS	- S-	27-	2a6	- M0-	dDl
l r 8 Cmb	07 2	107	10-	2SS	174	0M72	dDl
l 8dnC	27 1	aha6S2-	a02S- 0a	a46- 67a	aha- - 64	1M4	dDl
l 8vr p	1S0 1	1- aS0	1- 10-	1- h04	1- hh1	2M01	dDl
l 8vr p	1Sa 1	12647	1- - h0	1- 1h0	1- Sh4	2M7S	dDl
l nomb	2- 2	01h- 4	02h7S	02hSh	022S6	SM71	dDl
l TpnCTmb	76 1	20hh6a	27h2- 2	27S7a6	27Sh66	1M0-	dDl
l TpnCTmb	77 1	2h4ha- 1	2614S6a	24a14- -	2hhS407	2M41	dDl
l m8mp	- 4 1	- 44h0a	- h2020	- hSS7a	- 4a1- 2	1M1a	dDl
Ar pemb	1ha 1	1SS641- h	1S4404- 7	1S1a- 166	1S2- 4a1-	1M41	dDl
Ar pemb	1ha 2	4SaSh61	42hS14h	42Sh6hh	417212S	1M40	dDl
AGw8mb	2S- 1	4hh1	4067	4667	4662	2M-	dDl
AGw8mb	2Sh 1	1Sa6-	112a0	1S6- S	1Sa6-	- M84	dDl
AdC	117 1	10- 0S	1002a	17162	100h4	2M24	dDl
AdTwCmb	40 1	4SS6hS	- aa777	- a0677	- aa4Sa	SM7	dDl
RpwCmb	2- 7 1	142171	14- ah-	14hhS-	14- 70a	1M16	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 16	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU0S	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1- J- a	&wTwUd8 :u wb r :J	111q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	h1 2	067- h	0664S	0h4a1	06- 22	SM4h	dDI
YTTr pecmb	102 1	- S167	- S200	2a474	2aa06	1M4-	dDI
YTTr pecmb	102 2	14664	142- S	1- ah2	14272	2M11	dDI
YTTr pecmb	106 1	2S1- 2	2S2a1	2S7Sa	2S411	1M0-	dDI
YTTr pecmb	106 2	2S26S	2S607	21- 74	2S004	2M04	dDI
YTTpcmb	7a 1	142S02a4	14h- 1h40	14- 2- S6h	14- h- a6a	1M14	dDI
YTTpcmb	7a 2	146h007	1h- 1h11	1h11724	1hS- S- 7	2M24	dDI
ZdCd	66 2	17h24a	17S7h1	17- SaS	17- S6-	1M2S	dDI
ZqpdnCcmb	aS 1	46S00	47SSS	474S2	404a-	2M62	dDI
ZqpdnCcmb	a1 1	11S01	11177	1Sa1-	11Sh7	1M2h	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 I ers&or:J	aswl sP
Lsb:psmI Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psmI Re:D :J	5 9 SF01	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:cqduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112cC. FUD

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
cRmAAm	20 2	yh77y7	y40- 01	y4Sy6-	y4yS00	SUy6	ql w
cn&AmonE	121 1	12Sy0	1- 1yS	12y2-	120- 0	4U40	ql w
crwenAq	0h 2	1- Sh6	120yh	12hhh	127S2	1Uy6	ql w
BsrAm	1- h 1	6yS122	6y6hh0	6yyS0h	6yh2h1	SU66	ql w
BsrAm	1- 0 1	11y- 0h4	12- hy71	1222hh4	12104- S	1U00	ql w
BerEFAm	y 1	6- - 4	6- 7y	6- 04	6- 66	SU4h	ql w
BAmu&G	2Sy 1	0Sh2777	6y6- - h4	0S- S117	0S1h4h-	SU66	ql w
BAmu&G	2Sy 2	- - 4h16S	- 2- S24-	- 2y220h	- 27y226	1U0h	ql w
BromAne	71 1	0hy4	0676	7227	07- 6	4U0	ql w
RsOmAm	1S7 1	66-	h60	0SS	64-	1SU6y	ql w
RsOmAm	1S6 1	h1Sy	hS74	h126	h1S0	SU41	ql w
RsOmAm	111 1	hyyy	627S	6S11	6Sy0	2U61	ql w
RsRqAm	4- 1	7SSS1S	7S6S77	7SSS42	7S2S40	SU44	ql w
RsRqAm	44 1	1- hy2hy4	1- h16441	1- 40S467	1- h26hS1	SU46	ql w
Rsrbon	12 1	h04027-	h76- 1- y	h0hy- 76	h07yy- 6	1U1S	ql w
Rsrbon	12 2	016y2	0S021	6yhh0	0S6h6	1Uh1	ql w
RGRorAne	- h 1	2Sy6S47y	24S022Sy	262776y0	2- 00- 0y7	11U26	ql w
RGRorAne	- h 2	17yy42	1yh6Sy	1y0h74	1y4- 0y	2US4	ql w
RGromAm	h2 2	h- 4h6	h- 10h	h2704	h- 167	SUhh	ql w
RobsR&	hy 2	hy667	6S200	h777h	hy61S	1U10	ql w
RoI I er	6- 2	2Sy721	2S7- y-	2Sy74-	2Sy- h2	SU4S	ql w
t EwI rowAm	1h6 1	16S701	160206	16- 7h7	164SS2	1Uyh	ql w
t EwI rowAm	1h6 2	6hS- 7	604yS	6h724	66110	1U7y	ql w
. rbAm	164 1	1212hS	12S174	11y7yS	12S441	SUhy	ql w
. rbAm	164 2	40414	406- 2	4011-	40- 76	SUhh	ql w
HsOoFAm	16S 1	1- h772	1- y- 10	1- y42h	1- 72S7	1U46	ql w
HsOoFAm	16S 2	6- h74	6- y22	64472	6- yy6	SU01	ql w
9 oPmAm	16h 1	1S1Sy64S	yy267y7	yy4S0- 6	yyy242h	1US2	ql w
9 oPmAm	16h 2	4- S7- hh	42- 60S4	4- 1S664	427h241	SUy7	ql w
DnOAm	11h 1	02S- 2y7	0S- y26S	0- Shh47	01720S2	1U70	ql w
DnOAm	11h 2	y04h61	yhS1S2	y4y7yS	yh717h	1U47	ql w
Don	h4 2	4yy0y- S	47776- S	4776110	4y24226	1U-S	ql w
Don	h6 2	7yhyh621	770- - 601	7y46S6y6	7y26- - - S	SUh2	ql w
Don	h0 2	2- 4S- 6y	2- S706y	2- - 62hh	2- 27464	SU04	ql w
KrEI &on	7- 1	411	- 00	- 7y	- y2	4U-7	ql w
LesO	2S6 1	14- h1S4	146h12h	14612h0	14h- 72y	1U12	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RAen&psml Re:D :J	5 9 SF01	t AR&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J-	t s&sFAe:Nsme:J	112c C. FUO

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
LesO	2S0 1	12S24hS	122yh07	1221602	1210ySS	1U1h	ql w
LesO	2S7 1	hy067- 1	612117h	6Sy- - h2	6S6- 07y	1U26	ql w
LA&GAum	6 1	20S462-	261yh10	26S77S2	2644- 14	1Uyy	ql w
5 sgnewAum	24 2	2227S4y	2204S2h	2242722	22472y7	1US4	ql w
5 sngsnewe	hh 2	211h77S	2S74662	21202S7	21Sy2hS	1US4	ql w
5 oPEbOenum	y4 1	4- 611	44- y6	44y04	44- 20	1Uh4	ql w
5 oPEbOenum	yh 1	274Sh	274hh	2y272	27014	1U02	ql w
5 oPEbOenum	y6 1	- h67S	- hS- 0	- h722	- hh1-	1U17	ql w
5 oPEbOenum	y0 1	10h- 0	17212	10y12	10770	1U7y	ql w
5 oPEbOenum	y7 1	46261	407SS	4h- 7-	46471	2U6-	ql w
NeoOEmAum	1hS 1	20S710	200y61	2724- 1	200S0S	2U11	ql w
NeoOEmAum	1hS 2	71y06	7- 244	72211	72400	SU72	ql w
NAqkeP	6S 2	- 1S00	- 1- - h	- 1- S7	- 124S	SU4h	ql w
8 GowI Goruw	- 1 2	h7S1	h71S	h- hy	h6h0	4Uhh	ql w
8 o&swwAum	- y 2	614607	6S7- 6h	6111h1	611- y7	SUh2	ql w
CGoOAum	1S- 1	012- y- S	6yyy122	0Sh6- h0	0Shy7S-	SU77	ql w
CGoOAum	1S- 2	- - - 2S0y	- 22ySSh	- 2y167-	- 2742h6	1Uh7	ql w
pqsnOAum	4h 1	47h0064	4011h2-	40S764h	40hy- 11	1U0y	ql w
pqsnOAum	4h 2	14y2h0	14hy6-	140h6h	140hyh	1U12	ql w
pe&enAum	72 1	24y	- Sy	- Sy	27y	12USS	ql w
pe&enAum	00 2	20S	- S-	- SS	2y1	6U1	ql w
pe&enAum	07 2	1y4	1y1	1y2	1y2	SU0y	ql w
pAAqon	27 1	y46y6SS	1SSyhyy-	yh7y0h2	y017447	- U42	ql w
pAPer	1S0 1	14S24	1424y	141- -	141- h	SU7S	ql w
pAPer	1Sy 1	1- 16h	14- y1	1- - S0	1- 621	4Uy2	ql w
poOAum	2- 2	yh42S	yh2- h	y46y7	yh117	SUy	ql w
p&on&Aum	76 1	- 6- 026	- h7yS2	- h- 67y	- h7002	1U4S	ql w
p&on&Aum	77 1	- 1y61h0	- 27Syy-	- 260- - 6	- 247162	1U4S	ql w
pu&Pur	- 4 1	- h722S	- 0SS20	- 01762	- 660S-	2US2	ql w
i erbAum	1hy 1	1S- 02S4-	1SS26h2y	1S1y- 166	1S1y0246	1U6y	ql w
i erbAum	1hy 2	4S6y447	4S7- 017	421S202	4121146	1U77	ql w
i GsPAum	2S- 1	h41S	h467	h226	h- 67	2Uh	ql w
i GsPAum	2Sh 1	12047	1244S	1- 4h0	12772	4USh	ql w
i A	117 1	- 1h0y	- - S4y	- - h60	- 20- 2	- U1h	ql w
i A&snAum	40 1	- 1472y	- 1626S	- 1h- 47	- 1h40y	SU2-	ql w
MrsnAum	2- 7 1	167140	10S0- 0	167yy2	16y2y2	SU07	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:Number:J	LB1264S0	3 l ers&or:J	aswl sP
Lsb:psml Re:D :J	3 - 447 10	Dw&umne&Nsme:J	8 7
RFen&psml Re:D :J	5 9 SF01	t Ra&on:Fsq&or:J	1
t s&e:T:i Ame:c qduAeO.J	2S2- S0 12:17J16J- -	t s&sFAe:Nsme:J	112c C. FU0

8srsme&er	5 sww	R8p1	R8p2	R8p-	R8p5 esn	R8pCpt	MnA&w
VsnsOAum	h1 2	yhS0-	y20y7	y- 42y	y- 060	1U2h	ql w
Y&erbAum	102 1	- 2yh7	- 422y	- - 700	- - 677	1Uyh	ql w
Y&erbAum	102 2	16S00	166- 7	1hy1S	162S7	2U6	ql w
Y&erbAum	106 1	22h76	2- 6hh	22062	2- SS1	2U4y	ql w
Y&erbAum	106 2	22- h-	22141	21046	22S7S	1Uy	ql w
Y&&Aum	7y 1	14h- 1- SS	1442- 76y	146467S7	14h- - yy2	SU00	ql w
Y&&Aum	7y 2	1h1426y	147- 220	140y- yS	14y22yh	1U27	ql w
ZAnq	66 2	177761	176616	172h7y	176S22	1U01	ql w
ZAqonAum	yS 1	0hy4y	0h0yy	0612h	0hyh0	SU21	ql w
ZAqonAum	y1 1	16yS2	10S44	100yh	10240	2U07	ql w

Reviewed By:Bin
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Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0hh062	0h6ahh	0420hS	0h1722	1N8h	dDl
qCTb nCE	121 1	220S-	2- 021	24S14	2- 40a	2M4-	dDl
qpl r Ccl	0h 2	14006	14047	140Sa	14044	SM2-	dDl
Bwpcmb	1- h 1	670aS2	6a2S61	60S4h6	67- 40-	1M07	dDl
Bwpcmb	1- 0 1	121h64S	121aS76	11716- a	12Sh4hh	1M02	dDl
Br pE8mb	a 1	- a64	4S- 4	- 724	- a4S	2M01	dDl
Bdl b mTG	2Sa 1	026- 6- 0	01712- 0	02- - a67	0226271	SM17	dDl
Bdl b mTG	2Sa 2	- 1S4ah0	- - a- aS0	- h01hS6	- - h60aS	0N81	dDl
Bpmb cCr	71 1	0220	0644	027h	0- 76	- N86	dDl
5 wob cmb	1S7 1	16S4	1aSS	1060	10h0	7M4-	dDl
5 wob cmb	1S6 1	6- 20	6- 00	62- h	6- 1-	1M14	dDl
5 wob cmb	111 1	1h46h	1h610	1h2hS	1h444	1M1a	dDl
5 w8lcmb	4- 1	h17a- 1	h21- 2a	h1616h	h177S7	SM1S	dDl
5 w8lcmb	44 1	77a6h16	707h1a-	771164a	77- 111a	SM06	dDl
5 wpenC	12 1	0640Sh2	07- 2S72	07h62- -	00074hh	1M40	dDl
5 wpenC	12 2	ah- 2h	ahh6a	a- 7Sa	a4aS1	1N81	dDl
5 G8hpCr	- h 1	22S0hS64	2h1ah1S7	2607h27S	2467h1h1	aM01	dDl
5 G8hpCr	- h 2	1a7624	2S40S7	2Sh4hS	2S2a20	1M7h	dDl
5 Gpmb cmb	h2 2	ha024	ha142	ha202	ha- 0a	SM11	dDl
5 new8T	ha 2	4- 272	4- - 0a	417h7	4274S	1M1a	dDl
5 nDDr p	6- 2	- a166-	- aS664	- 76006	- 7a0S1	SM06	dDl
&El Dpnl cmb	1h6 1	1124a7	11SS2S	1S7h7a	11S- 6a	1M0a	dDl
&El Dpnl cmb	1h6 2	442a6	4- 27-	4- 440	4- 606	1M2h	dDl
Fpecmb	164 1	0- 046	0hS2S	041aa	04- 22	SM70	dDl
Fpecmb	164 2	2a41-	2aS7a	2a67S	2a- a4	1N81	dDl
Hwon8Ccmb	16S 1	aSS0a	a1a42	a2a16	a1646	1M10	dDl
Hwon8Ccmb	16S 2	4211-	422a0	42SS-	421- 7	SMlh	dDl
y n8b cmb	16h 1	1S1hSh17	1S1h- 4- S	1SShh77-	1S11aa44	SM1h	dDl
y n8b cmb	16h 2	- a7S- hh	4227aSa	4626h6h	420761S	0M62	dDl
tCocmb	11h 1	02h0h14	0ha0114	0404aa4	044- 2S7	2M1	dDl
tCocmb	11h 2	7a- 021	a02aSa	1Sh1S70	a02h02	7N8a	dDl
tpnC	h4 2	- 74hh42	- 07- 74a	- 020166	- 07hh1a	1M16	dDl
tpnC	h6 2	6a2246- h	6a- 1h- S6	60aaSa- -	6774- 62h	1N80	dDl
tpnC	h0 2	1071aa-	10740ha	10- 766h	1067402	1M46	dDl
KpEDTnC	7- 1	- 4a	- S2	- 42	- - 1	0M10	dDl
Lr wo	2S6 1	1S6a24- 0	1Sh207S2	1S4a777a	1Sh0- S4-	SMla	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 17	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU02	&c8mTcnC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUc8 :u wb r :J	11- q . FUM

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCcT
Lr wo	2S0 1	770Saah	7aS746-	aS4- 041	7a41S66	1N82	dDl
Lr wo	2S7 1	422S1242	416- 402S	4210a1a-	42SShSh1	SM06	dDl
LcTGmb	6 1	26h6aa4	2044440	267a01-	26a0Sh2	1M04	dDl
9 wgCr l cmb	24 2	1hh- ha1	1h24ha-	1471S62	1h1a04a	2M4S	dDl
9 wCgwCr l r	hh 2	16- 0- 40	16- - 42S	1h7h100	1617647	1M0a	dDl
9 n8Eeor Cmb	a4 1	22007	2227h	216h1	222- 7	2M14	dDl
9 n8Eeor Cmb	ah 1	1aS14	17- 2a	17h6-	176- h	1M70	dDl
9 n8Eeor Cmb	a6 1	222S1	2- 2S-	22217	22h41	2M14	dDl
9 n8Eeor Cmb	a0 1	11040	12102	12- - a	12S76	2M1-	dDl
9 n8Eeor Cmb	a7 1	- S426	- S- 2h	- SSha	- S20S	SM0-	dDl
u r noEb cmb	1hS 1	1a6h26	1a6- S1	1a21h7	1a4aah	1M26	dDl
u r noEb cmb	1hS 2	h712a	h6760	h02- 2	h04Sa	1M1-	dDl
u cdkr 8	6S 2	2h- a6	2hS1h	2- h- -	24647	- M4a	dDl
NGhl DGhpm	- 1 2	6hh2	01S2	67h2	67- h	4N8-	dDl
NnTwl cmb	- a 2	021S1a	0S7h62	6aahha	0Sa014	1M12	dDl
. Ghocmb	1S- 1	0217S7-	0- h74hS	027S16-	027hh6h	SM40	dDl
. Ghocmb	1S- 2	2aah027	- 2a2627	- 4a62aS	- 261h4a	0M02	dDl
l dwCocmb	4h 1	47ah602	40a1h00	4007hah	4721a47	1M-	dDl
l dwCocmb	4h 2	1- 4hSh	146- - 4	1ha727	14677a	7M0-	dDl
l r 8 Ccmb	72 1	22S	262	106	22S	1aM04	dDl
l r 8 Ccmb	00 2	2S-	170	1a-	1a4	4M1	dDl
l r 8 Ccmb	07 2	146	124	14a	14S	aM07	dDl
l c8dnC	27 1	1S- 0- - - 4	1Sh204S7	1S41S- 02	1S4- 0S- 7	SM00	dDl
l c8vr p	1S0 1	000- 6	07- 72	7241-	0ah1S	- M1a	dDl
l c8vr p	1Sa 1	0h441	0676h	02- 72	047a6	- N86	dDl
l nocmb	2- 2	1722h0	10771a	1007- -	10a6- 6	1M2a	dDl
l TpnCTcmb	76 1	- 4aS6S	- h4- 7a	- 470S2	- hS010	SM41	dDl
l TpnCTcmb	77 1	- 2hS4S7	- 1a04S6	- 2204- 2	- 22hS72	SM72	dDl
l m8mp	- 4 1	4276- 0	4- 2711	42a776	4- S44h	SM1S	dDl
Ar pecmb	1ha 1	1ShS4720	1S41- 160	1S40- 14a	1S46- 01h	SM44	dDl
Ar pecmb	1ha 2	- 0a22- 4	41- 1012	4haha0-	410- - S6	aM00	dDl
AGw8cmb	2S- 1	4S- 4	- 606	- aa2	- aS1	hN8-	dDl
AGw8cmb	2Sh 1	a470	a001	a60a	a646	1M1S	dDl
AcC	117 1	hSS2h	h26- h	h1112	h12h7	2M16	dDl
AcTwCcmb	40 1	44a1aS	4460aa	446h- 6	440hS7	SM-	dDl
RpwCcmb	2- 7 1	1S- 144	1SS04S	1S2a2h	1S220S	1M1S	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 17	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU02	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J1aJ2a	&wTwUd8 :u wb r :J	11- q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwoomb	h1 2	7- - 07	727- 2	724h6	7277a	SM16	dDl
YTTr peomb	102 1	2S266	2SSa1	2S2S7	2S177	SM44	dDl
YTTr peomb	102 2	aha7	a7S4	ah0S	a6h0	1M2	dDl
YTTr peomb	106 1	1470h	14hSS	140hS	140Sa	1MS	dDl
YTTr peomb	106 2	16201	17S7h	17a1a	100ha	0M62	dDl
YTTpomb	7a 1	14- ha0a1	14- h4271	14- 0h2- 4	14- 6- 1S2	SM87	dDl
YTTpomb	7a 2	1- - 20a1	14- 2411	1hha2a6	14414aa	0M77	dDl
ZdCd	66 2	h1SS7S	hS6a04	4aa- h1	hSh467	1M8a	dDl
ZqpdnComb	aS 1	- 20a7	- 1- 76	- 11a4	- 10a2	2M06	dDl
ZqpdnComb	a1 1	011S	0- 44	01- h	01a6	1M07	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Drpw Thpla	swl Pw8
LweJ wo D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wo D8 Jt&Jal	9 y SU0-	&c8mTmCJJwdThpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q . FUM

Nwpwb r Tr p	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
q8mb cCcmb	20 2	667017	667022	661- 62	666260	SM04	dDl
qCTcb nCh	121 1	1: 7E0	1: 0: S	17: 02	1: E- :	2N42	dDl
qpl r Ccl	0E 2	146E-	14- 0E	141: S	144S6	1N02	dDl
Bwpcmb	1- E 1	E00: 21	E0: S2-	E0- 2S:	E06017	SN44	dDl
Bwpcmb	1- 0 1	1S2026E	1S20- 22	1S11717	1S221- E	SM10	dDl
Br ph8cmb	: 1	- EEE	- 61:	- E71	- E7E	SM1:	dDl
Bcl b mTG	2S: 1	011: 2S2	01241S7	0SS4760	0S72026	SMIE	dDl
Bcl b mTG	2S: 2	- 2770S0	- 276E- :	- 26E64E	- 27S2: 0	SM1:	dDl
Bpmb cCr	71 1	667E	6- 67	6217	6424	- N01	dDl
5 wob cmb	1S7 1	16S4	1746	10S7	102S	0N8E	dDl
5 wob cmb	1S6 1	E726	6267	6S67	6SE4	- N0E	dDl
5 wob cmb	111 1	2- 27:	2- S: 0	2246S	22: 47	1M1:	dDl
5 w8lcmb	4- 1	27- S- 0	27E- 02	274610	274- 42	SM42	dDl
5 w8lcmb	44 1	471767-	4746606	ES2E211	47: 67E0	2M2:	dDl
5 wpenC	12 1	- 072E21	- : : : 407	- : 27E02	- : S- E24	2M1-	dDl
5 wpenC	12 2	4616E	40076	46247	460- -	1MIE	dDl
5 G8hpcCr	- E 1	2SS0- 4S1	2- 1762- 7	24746100	220S1: - :	1SN00	dDl
5 G8hpcCr	- E 2	172E: S	174ES:	176SE:	174- 76	SM14	dDl
5 Gpmb cmb	E2 2	- : 017	- : : E:	- : : 42	- : 70-	SM14	dDl
5 new8T	E: 2	- - 67S	- - 16E	- - - E2	- - - : :	SN07	dDl
5 nDDr p	6- 2	- - 1: 06	- - 41E2	- - - - 0-	- - - 160	SM-	dDl
&hl Dpnl cmb	1E6 1	04700	06: : 7	06670	06170	1NES	dDl
&hl Dpnl cmb	1E6 2	- 1260	- 11: 6	- S- 01	- S: 4E	1N01	dDl
Fpecmb	164 1	E4- S-	E- 610	E- 7E1	E- : 24	SN0E	dDl
Fpecmb	164 2	2S64:	2S71-	21S6S	2S741	SM:	dDl
Hwon8Ccmb	16S 1	6- - 67	6- - S:	622EE	62: 07	SM1:	dDl
Hwon8Ccmb	16S 2	- SS40	- SSS0	2: S07	2: 011	1M74	dDl
y n8b cmb	16E 1	1S- 14: 17	1S1671- 6	: : 0E744	1S1E2: 66	1N00	dDl
y n8b cmb	16E 2	414SSSE	4242EE:	42EE1: 4	4212E76	1NES	dDl
tCocmb	11E 1	0- 201S4	0- S01E:	04EE- E:	0- 6- 2S0	1N8:	dDl
tCocmb	11E 2	: 64- EE	: E4644	: ES16E	: E6- 77	SN06	dDl
tpnC	E4 2	- SE76S7	- SE2700	- S2211S	- S44E- 1	SN04	dDl
tpnC	E6 2	EE1E7612	E402S267	E40S171S	E476S2- S	SM40	dDl
tpnC	E0 2	1- S47: :	141E21:	127E4- 1	1- - E17-	EM24	dDl
KphDThC	7- 1	- S6	- E1	- 26	- 27	6M10	dDl
Lr wo	2S6 1	E1S- S01	E104: 76	ES: 21S-	E12- - 70	SM17	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 1:	tCl Tpmb Cr TJu wb r Ja	N7
5 8r CTJ wb D8 Jt&JaJ	9 y SU0-	&c8mTcnCJJwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q . FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCcT
Lr wo	2S0 1	4261260	4- : : 4- -	4- SE2S1	4- 21: 60	1M0-	dDl
Lr wo	2S7 1	1: : 40: 06	2S4: 0EE2	2SS2S260	2S1EE26E	1M47	dDl
LcTGcmb	6 1	26: 7E01	20E67- 2	206SE1E	20- 76- :	1M20	dDl
9 wgCr l cmb	24 2	7676SS	7E0: 6:	766: E-	764ES0	SM06	dDl
9 wCgwCr l r	EE 2	142274E	1206- : -	1- 7E: 26	1- 61021	EM4:	dDl
9 n8heor Cmb	: 4 1	2- 262	22: 11	22: 07	2- SES	SM71	dDl
9 n8heor Cmb	: E 1	2S- 04	2S74:	2S172	2S467	1M07	dDl
9 n8heor Cmb	: 6 1	2- 6- 0	2E- 66	242EE	2441:	- M4:	dDl
9 n8heor Cmb	: 0 1	14S: :	1- - 72	120: S	1- 424	4M7:	dDl
9 n8heor Cmb	: 7 1	- - SS0	- 47E-	- 2: 71	- - 614	- M1:	dDl
u r nohb cmb	1ES 1	1- 0: S7	141161	1- EE07	1- 7216	2M8-	dDl
u r nohb cmb	1ES 2	41702	4S: 16	4S444	41S00	1M00	dDl
u cdkr 8	6S 2	1: 01S	1: E74	1: 400	1: E: S	SM0S	dDl
NGhl DGhpml	- 1 2	- 2S:	- 4S:	- 6- 4	- 410	6M22	dDl
NnTwl cmb	- : 2	4- S- 0:	421- - 1	4212E7	424- 2-	1M24	dDl
. Ghocmb	1S- 1	026E- E0	0- 24- 21	01600: 7	02E24: 2	1M8:	dDl
. Ghocmb	1S- 2	- 2: 67: 7	- 20EE1S	- 2267E2	- 26642S	1M1S	dDl
l dwCocmb	4E 1	406E011	47- E774	40404- 0	407- S11	SM17	dDl
l dwCocmb	4E 2	140E42	14000E	1466S0	140- S7	SM42	dDl
l r 8 Ccmb	72 1	1E0	122	1E1	144	12M7	dDl
l r 8 Ccmb	00 2	16-	14S	1- -	146	1SM72	dDl
l r 8 Ccmb	07 2	11S	1S1	: S	1SS	: M7	dDl
l c8dnC	27 1	76- - - 42	77: : E0:	700EE- -	706: 47E	1M42	dDl
l c8vr p	1S0 1	- 76- S	- : 742	4S644	- : 0SE	2M4E	dDl
l c8vr p	1S: 1	- 061S	- 7S2S	- 6: S:	- 0E1-	1M4S	dDl
l nocmb	2- 2	1: 17S7	1: S72-	1: 1SS6	1: 121-	SM20	dDl
l TpnCTcmb	76 1	- 147- E	- 1E2- E	- 1- 11S	- 14- : -	SM16	dDl
l TpnCTcmb	77 1	2: 2S644	2: : 6: - 4	2771174	2: - 2: 21	2M81	dDl
l m8mp	- 4 1	- 4- E02	- - 7007	- 4- SE1	- 417SS	SM00	dDl
Ar pecmb	1E: 1	1S- 62E24	1S2: 21E2	1S267- 2E	1S- S0660	SM47	dDl
Ar pecmb	1E: 2	4116: 4:	41- SS0S	4S: S2- -	4112410	SM4:	dDl
AGw8cmb	2S- 1	2: 74	- SES	- 210	- S74	- M1S	dDl
AGw8cmb	2SE 1	0461	0220	6: 00	0222	- M1E	dDl
AcC	117 1	- 20: 7	- 441:	- 2464	- - 220	- M1E	dDl
AcTwCcmb	40 1	- 47426	- 612: 1	- E47- 2	- E47ES	1M71	dDl
RpwCcmb	2- 7 1	7: SE4	7: 60E	: S1- 6	7: 622	SM01	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumber pla	LB1264S0	3 Dr pwThpla	swl Pw8
LweJ wb D8 Jt&Jal	3 - 447 1:	tCl Tpmb Cr TLu wb r Ja	N7
5 8r CTI wb D8 Jt&Jal	9 y SU0-	&8mTmCJUwdThpla	1
&wTr J JAcb r JqdOmpr o Ja	2S2- S0 12J17a22a2-	&wTwUc8 Ju wb r Ja	114q. FUM

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwocmb	E1 2	74700	7EEES	747S-	7ES06	SM47	dDI
YTTr pecmb	102 1	1E: : -	16- S2	16- 6:	16221	1M4-	dDI
YTTr pecmb	102 2	7SS-	0ES7	066-	002E	- M40	dDI
YTTr pecmb	106 1	111: 0	11622	11S22	1127S	2M04	dDI
YTTr pecmb	106 2	16220	16S: -	16- 44	16221	SM00	dDI
YTTpcmb	7: 1	14S6E: 16	1426072S	1- 7S6: 04	14S46: S-	1M64	dDI
YTTpcmb	7: 2	1- : 6- S2	14270EE	1- 2744:	1- 74ES2	- M0S	dDI
ZdCd	66 2	621E24	621S- 1	62260:	62104E	SM14	dDI
ZqpdnCcmb	: S 1	- S726	- S20E	- 17E4	- S: 7E	2ME:	dDI
ZqpdnCcmb	: 1 1	0SS2	6620	016S	6: - S	- MIE	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.uwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :uwb r :a	12S3 3 - Fo

NwpwbrTrp	Rwl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl Rrw.	3 Nl 5 l &	M. dT
q8mb c mb	20 2	1917S6y	19S047S	1J720J9	1JJ442J	2F7J	dDl
q. Tb C. h	121 1	2047467	266117J	26y6412	26J0SS4	1FJ2	dDl
qpl r . cl	0y 2	62621	627S1	6122y	62S49	1F1J	dDl
Bwpmb	17y 1	7SS04J6	2JJ112J	292yS02	2970J9y	2F1J	dDl
Bwpmb	170 1	y12yJ60	yS22yJy	y1S1JJ4	ySJ744y	1FS6	dDl
Br ph8mb	9 1	62Sy04	6124J0	6S4J24	61262J	1F29	dDl
Bdl b mlE	2S9 1	6742Jy1	6S07042	y946460	6121S2S	7F71	dDl
Bdl b mlE	2S9 2	204414S	2J79169	20SJ1SJ	2067JS6	2F4y	dDl
BpCb c r	J1 1	4192	42S1	441J	420S	2F99	dDl
3 wob mb	1SJ 1	y742J	y191S	y199J	y244y	1F67	dDl
3 wob mb	1S6 1	04447	07701	07S61	0762y	SF9J	dDl
3 wob mb	111 1	621407	61J70J	612Jy9	610y0S	SF01	dDl
3 w8lmb	47 1	7092JJ1	7JS2Sy0	70776S0	70061J1	SF9J	dDl
3 w8lmb	44 1	6S940960	61S12246	y9SyS016	6S776906	1FJy	dDl
3 wpeC.	12 1	260S971	20y01y4	2042JS6	202767S	1F0S	dDl
3 wpeC.	12 2	766y4	7y67y	7y7S1	7yJ64	1F90	dDl
3 E8Cpc r	7y 1	111S02S	1S42690	1S72969	1S62129	7F99	dDl
3 E8Cpc r	7y 2	6994	01S2	6J47	69JS	1FJ6	dDl
3 EpCb mb	y2 2	66S012	6yJ940	6y1S9S	6y6916	SF0J	dDl
3 Cew8T	y9 2	11J070J	110429S	11606S9	1106426	SFJy	dDl
3 CDDr p	67 2	9J16121	90y7S99	9644yJ9	9070976	SFJ9	dDl
&hl DpCl mb	1y6 1	042	0J7	60y	077	0F4y	dDl
&hl DpCl mb	1y6 2	740	70S	77S	749	yF06	dDl
Gpemb	164 1	1yJ	160	1yJ	161	2F9J	dDl
Gpemb	164 2	yS	y0	00	61	22F01	dDl
HwoC8c mb	16S 1	0SJ	00y	0J7	0y6	yF44	dDl
HwoC8c mb	16S 2	ySS	4J7	440	400	yF02	dDl
KC8b mb	16y 1	9699S46	9262SJ1	91J1620	97JS91J	2F90	dDl
KC8b mb	16y 2	700S29y	7009S69	707J700	7062yJS	SFy0	dDl
t. omb	11y 1	660S6Sy	67J7S40	6790y20	64J7020	2FyS	dDl
t. omb	11y 2	J2914y	J11242	J16499	J1J962	1F12	dDl
tpC.	y4 2	000JJS6	0911y2y	06y0J6J	00J2077	1F67	dDl
tpC.	y6 2	144S64192	142y221y9	17976y160	1419J7J79	1F69	dDl
tpC.	y0 2	76J121y	7611J22	7646266	7646474	SF9y	dDl
gphDTC.	J7 1	210	2yS	294	2y4	1yFSJ	dDl
Lr wo	2S6 1	120079y4	124SS79S	122S014S	1246S494	2F71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:l wb D8 :t&:a	3 3 - S26	t. l Tpmb . r Tuwb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :uwb r :a	12S3 3 - Fo

NwpwbrTrp	Rwl l	3 Nl 1	3 Nl 2	3 Nl 7	3 Nl Rrw.	3 Nl 5 l &	M. dT
Lr wo	2S0 1	1S9y0646	1S0S617S	1S70yyyS	1S60900y	2F07	dDl
Lr wo	2SJ 1	yS0y9620	4926SJJ9	4J4y7y41	494917y2	2F76	dDl
LdEcmb	6 1	27212J0	229762J	226Sy44	2291J2S	1F77	dDl
Rwk. r l cmb	24 2	26622y21	26216227	267J6S7S	264SJ2yJ	SF00	dDl
Rw. kw. r l r	yy 2	76S1747	76S4S6S	7y200Sy	7y000S7	1F21	dDl
R C8heor . mb	94 1	90649yS	90Jy20J	949271J	96JSJ49	1F69	dDl
R C8heor . mb	9y 1	14406296	14772y9S	17020049	1410JJ0J	2FJS	dDl
R C8heor . mb	96 1	1yy66467	1y9y77SJ	14JSSJS0	1y44S197	7FJS	dDl
R C8heor . mb	90 1	JJ116y9	J9901yS	J411J2S	J04S21S	7F42	dDl
R C8heor . mb	9J 1	220J6y2y	2266J219	22127JJS	22y262SJ	1Fy0	dDl
u r Cohb cmb	1yS 1	240	2SS	207	24S	1yF46	dDl
u r Cohb cmb	1yS 2	77	20	6S	4S	44FS9	dDl
u cdvr 8	6S 2	71JSyy	71J606	7149J9	71024S	SF62	dDl
NECl DECpml	71 2	19S21	1J996	1J409	1JJ72	1F67	dDl
NCTWl l cmb	79 2	Jy7S77y	J41y176	J261yS9	J4S2726	1F61	dDl
5 ECocmb	1S7 1	676S1S6	619S9SS	6S1y412	61JJJS6	2F0J	dDl
5 ECocmb	1S7 2	202SyJ4	26y6S6J	262S1J0	266y617	1F91	dDl
l dw. ocmb	4y 1	47S49S9	41y1299	4Sy0224	4101144	7FSS	dDl
l dw. ocmb	4y 2	120S9S	124666	12426y	12y74S	1F22	dDl
l r 8 . cmb	J2 1	46204	4y9JS	4yS4y	4y066	1F4S	dDl
l r 8 . cmb	00 2	140S	179S	176S	14S0	4FS4	dDl
l r 8 . cmb	0J 2	44SJ	4770	42J9	474y	1F7J	dDl
l 8dC.	2J 1	2J744491	209y0yS4	20y0yJS9	209y926J	1F70	dDl
l 8r p	1S0 1	7796J40	747yS20	720661J	7769490	2F4y	dDl
l 8r p	1S9 1	72699SS	71J2020	72S1916	721J1J1	1F42	dDl
l Cocmb	27 2	402JS444	46J0y99y	40JSJ2S4	40721y4J	SF99	dDl
l TpC. Tcmb	J6 1	19y4494S	1J92y071	1J496SSJ	1J9JJJ97	2F0J	dDl
l TpC. Tcmb	JJ 1	160047S9y	167J06409	1620J944y	164JS7SS6	1FyJ	dDl
l m8Vmp	74 1	y6Sy99	yy41S6	y4911S	yy46Sy	1FS4	dDl
Ar pecmb	1y9 1	9J70S67	97yy6S9	974J007	9y17J1y	2F94	dDl
Ar pecmb	1y9 2	7047167	76y0090	76J9760	7696006	1F10	dDl
AEw8cmb	2S7 1	7SJJJSS	299021S	297yy14	7SS010y	2Fy6	dDl
AEw8cmb	2Sy 1	0179904	6906472	6J19746	690JyJ4	2F7S	dDl
Ac	11J 1	2246Jyy	219J91J	214S092	219yy22	2F42	dDl
AcTw. cmb	40 1	709021y	701y4y7	7640y67	702SS00	2FS1	dDl
Mpw. cmb	27J 1	1S629277	1S27010S	1S26929S	1S70Jy6y	2F1S	dDl

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Inst Id :P8

LB:umb er pa	LB1264S0	n Dr pwTCpa	swl Pw8
Lwe:I wb D8 :t&:a	3 3 - S26	t. l Tpmb . r T.u wb r :a	NJ
3 8r . Tl wb D8 :t&:a	3 3 - S26	&8mTC. :UwdTCpa	1
&wTr :i :Adb r :qdOmpr o:a	2S27 S0 12:1Ja44aS1	&wTwUd8 :u wb r :a	12S3 3 - Fo

NwpwB r Tr p	R wl l	3 NI 1	3 NI 2	3 NI 7	3 NI R r w.	3 NI 5 l &	M. dT
- w. wocmb	y1 2	y2201J	y17S2S	yS66y0	y14172	1Fy0	dDl
YTTr pecmb	102 1	1yJ	210	142	102	22FJ0	dDl
YTTr pecmb	102 2	1S6	60	J9	J0	22F42	dDl
YTTr pecmb	106 1	17066	17699	17924	17096	SFJ4	dDl
YTTr pecmb	106 2	14992	1y72S	1490S	1yS94	1F7S	dDl
YTTpcmb	J9 1	1229766J	11J7262y	11y6JSyJ	11J9J110	7FS9	dDl
YTTpcmb	J9 2	1124J77	1SJ9220	1SJ6219	11SSS97	1F9y	dDl
Zc d	66 2	114J1S0	1149y16	114yJ42	1140J22	SF16	dDl
ZqpdC. cmb	9S 1	4yy109S	4y9y121	44S09Jy	4y1J299	2F10	dDl
ZqpdC. cmb	91 1	9J922S	99466y	9y7J62	909249	2F26	dDl

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Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame cqduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MC&w
cRmACAm	2072	1: 9	166	1y9	1: 2	: FS2	ql w
cC&AmnCh	12171	: - -	1S42	12- -	1S- 6	1yF- 1	ql w
crweCAq	0972	:	0	1-	y	- 4F44	ql w
BsrAm	1- 971	19S	142	9S	114	4: F02	ql w
BsrAm	1- 071	2: -	2SS	1S:	1y0	44F- :	ql w
BerhFAm	y71	1- 4	11S	: 6	11S	21F9y	ql w
BAmu&E	2Sy71	60261S2	601yy26	66y1- y1	601240-	SF2:	ql w
BAmu&E	2Sy72	26: 002:	- 21: y6:	- 221040	- S42: 19	1SF11	ql w
BrnmACe	: 171	- : 42	- ySy	- y42	- : y:	1F- 1	ql w
3 sOmAm	1S: 71	1-	9S	10	26	00F: :	ql w
3 sOmAm	1S671	- 460	- - - 4	- 060	- 92-	6F- S	ql w
3 sOmAm	11171	4- S	4- 2	461	441	- Fy0	ql w
3 sRqAm	4- 71	- y1	- 09	2y9	- 94	14F96	ql w
3 sRqAm	4471	44- 91	4- 2- 0	42: : 1	4- 4: y	1F06	ql w
3 srbnC	1271	2- - : S44	2- 2- 9SS	2- 40y1y	2- - 64: 0	SF9-	ql w
3 srbnC	1272	20: 00	2: 1y4	20: : 6	20y: 6	SF69	ql w
3 ERnrACe	- 971	y4S21-	y2y412	y162: 0	y2: 6- 0	1F2y	ql w
3 ERnrACe	- 972	6- 6:	64- 9	6S4-	62: 2	- F- 4	ql w
3 ErnmAm	9272	y6S	1110	1160	1S: 1	yFy0	ql w
3 nbsR&	9y72	11S	1S0	1SS	1S6	4F: 2	ql w
3 nI I er	6- 72	210S	2264	2S90	2164	4F0:	ql w
t hwI rnwAm	19671	9S	S	S	10	10- F21	ql w
t hwI rnwAm	19672	S	-	-	2	: 6F6S	ql w
. rbAm	16471	9S	42	9:	9S	16F66	ql w
. rbAm	16472	0	10	2-	16	9- FyS	ql w
GsOnFACAm	16S71	29	60	y2	61	99F11	ql w
GsOnFACAm	16S72	y0	19-	14S	1- S	22F0y	ql w
HnRmAm	16971	y0660: 9	y- - : 611	y299y4y	y49- 0: 2	2FyS	ql w
HnRmAm	16972	- 4y66S2	4S- 9- S:	41- : - 0y	- : ySSy6	: F: 6	ql w
DDOAm	11971	6y09946	0S2: 409	66y- 00-	6: yy264	2F61	ql w
DDOAm	11972	0y0S4-	y- : : : :	y49y4S	: y- y90	yF4S	ql w
DnC	9472	060	0y9	6: y	09S	0F- S	ql w
DnC	9672	y961	1S62y	0yy-	y- y4	14F12	ql w
DnC	9072	- 02	- 11	- 2:	- - 0	yF- 0	ql w
KrhI &nC	: - 71	242	292	249	240	2F11	ql w
LesO	2S671	1096	1660	1460	16- S	yFS:	ql w

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8:
3 ReC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame c qduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
LesO	2S071	1911	1422	1- SS	1411	0F91	ql w
LesO	2S: 71	0S49	6062	9096	6921	1SF- y	ql w
LAEAum	671	29219yy	2- 64: - 0	2- y2- 6S	2426269	- F49	ql w
RsgCewAum	2472	2142	1- 10	y: -	14: 1	4SF2y	ql w
RsCgsCewe	9972	190	2: S	2S-	21-	2yF1y	ql w
RnPbOeCum	y471	11S:	yy2	6y2	y- 1	2- F1S	ql w
RnPbOeCum	y971	119:	1- SS	: y2	1110	1: F90	ql w
RnPbOeCum	y671	16SS	129S	y29	129:	26F. -	ql w
RnPbOeCum	y071	: 09	0S:	49:	6: 1	- SF. 2	ql w
RnPbOeCum	y: 71	2229	10y2	12: -	1060	26F6:	ql w
NenChmAum	19S71	2S	1-	0	1-	4yFyy	ql w
NenChmAum	19S72	S	-	S	1	10- F21	ql w
NAqkeP	6S72	00	11S	yS	y2	1: F1y	ql w
8 EnwI Enruw	- 172	09	y2	160	111	4- Fy9	ql w
8 n&swwAum	- y72	14904	14- 66	1- 6yS	1421S	- F29	ql w
5 EnOAum	1S- 71	0S: 1226	60: - 1S4	6: 9S260	6yS4: 66	2F26	ql w
5 EnOAum	1S- 72	2041- 01	- 192yyS	- 2Sy99y	- S- 464S	: F42	ql w
pqsCOAum	4971	44091y2	44S2- : S	4- 6: 996	4419- 06	1F2-	ql w
pqsCOAum	4972	1104y9	1- 0911	1- : y6-	1- 1- 2-	yF14	ql w
pe&eCAum	: 271	21	71-	-	4	49SFy2	ql w
pe&eCAum	0072	S	S	S	S	SFSS	ql w
pe&eCAum	0: 72	1:	12	2-	1:	- 1F10	ql w
pAAqnC	2: 71	1y090:	1yS24y	1: : 41S	1y2S0y	2F9-	ql w
pAPer	1S071	- 9:	- : -	2: -	- 42	19F2-	ql w
pAPer	1Sy71	209	- 09	129	29:	4: F01	ql w
pnOAum	2- 72	9Sy4y	4y- 9y	49026	4: 60:	9F9S	ql w
p&nC&Aum	: 671	12y2	1110	6: -	1S- 1	- SF- y	ql w
p&nC&Aum	: : 71	: S42	9: 20	- 2: 4	901:	41F64	ql w
pu&Pur	- 471	- S- - y6	- 1S6S-	- S: 099	- S09: 9	1F22	ql w
i erbAum	19y71	yyS- - - 0	y900919	y99409:	y60: 9- 0	2FS1	ql w
i erbAum	19y72	- 492S44	- y20: 09	- y42S1:	- 00- y0y	0F- y	ql w
i EsPAum	2S- 71	1- y2	1210	1S9:	1222	1- F64	ql w
i EsPAum	2S971	- - 9y	2y9S	2: 42	- S9S	: Fy-	ql w
i AC	11: 71	y10	1S9S	1160	1S49	11Fy:	ql w
i A&sCAum	4071	2: -	209	210	29:	14FS6	ql w
MrsCAum	2- : 71	- y2	- 10	2y2	- - -	19F61	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number J	LB1264S0	o l ers&ar J	aswl sP
Lsb psml Re D J	3 3 BS26	DDw&umCe&Nsme J	8 :
3 FeC&psml Re D J	3 3 BS26	t AR&nC Usq&ar J	1
t s&e T i Ame c qduAeO J	2S2- 7S0712 1: J4: JS1	t s&sUAe Nsme J	1213 3 B. FO

8srsme&er	Rsww	3 8p1	3 8p2	3 8p-	3 8pResC	3 8p5pt	MCA&w
VsCsOAum	9172	- -	- -	20	- 1	12F- 6	ql w
Y&erbAum	10271	- -	42	09	9S	44F1S	ql w
Y&erbAum	10272	6	- -	- -	24	66F6S	ql w
Y&erbAum	10671	1- 10	1109	129S	1240	9F6:	ql w
Y&erbAum	10672	y1: 1	1114y	11961	1S6- S	11Fy6	ql w
Y&&Aum	: y71	124yS60S	1299- 44y	12261260	124- 912y	1F24	ql w
Y&&Aum	: y72	1S6S: : 1	122: Sy9	1241260	110604:	: F99	ql w
ZACq	6672	24S	29S	210	2- 6	0F26	ql w
ZAqnCAum	yS71	960	9S:	460	914	yF0:	ql w
ZAqnCAum	y171	142	09	: -	1SS	- 6F- 2	ql w

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Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 2S	tCl Tpmb Cr T.uwb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU04	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :uwb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCcmb	20 2	1172h4-	117777-	121S021	11h4172	1M22	dDl
qCTdb nCE	121 1	- - 06	- h06	4S42	- 0h7	hM60	dDl
qpl r Ccd	0a 2	1Sah	1S04	1162	1Sh7	aM80	dDl
Bwpcmb	1- a 1	611a2a	6224S0	61- h47	61ah6S	SM1-	dDl
Bwpcmb	1- 0 1	1Sh6- 7-	1111- 6S	11S- 260	11S- 60S	SM67	dDl
Br pE8mb	h 1	20- 4	2001	26hh	20- a	1M-	dDl
Bdb mTG	2Sh 1	66S7424	672h41a	6717h- h	60a22ah	1M7a	dDl
Bdb mTG	2Sh 2	- 6S1211	- 672710	- 2hh- h1	- a207S6	aM0-	dDl
Bpmb cCr	71 1	6a00	0Sa2	0S1S	677S	- M72	dDl
5 wob cmb	1S7 1	2S7	177	101	17h	hM1a	dDl
5 wob cmb	1S6 1	41- 4	4- 10	42ah	42- 0	2M21	dDl
5 wob cmb	111 1	1622	176-	101h	10- a	0M8S	dDl
5 w8lcmb	4- 1	- S6427	- S0h77	- 1Sa10	- S7- 11	SM60	dDl
5 w8lcmb	44 1	a12S4S2	a- S067S	a- h4746	a204- Sh	2M66	dDl
5 wpenC	12 1	06hSS2a	7S7S1h4	7174044	0h74h70	- M20	dDl
5 wpenC	12 2	h0h67	h6026	h7S26	h0a0-	SM0a	dDl
5 G8hpcCr	- a 1	h6- 0- 07	12201- h6	1446- ShS	1212- haa	1hM1-	dDl
5 G8hpcCr	- a 2	124466	1- SS- h	1- h4h2	1- 1- - -	aM07	dDl
5 Gpmb cmb	a2 2	27aaa	200h4	20764	27S01	1M4S	dDl
5 new8T	ah 2	- 2a60	- 17hh	- 226-	- 224-	1M84	dDl
5 nDDr p	6- 2	07a0S	0a46h	0472h	062hS	2M62	dDl
&El Dpnl cmb	1a6 1	a- 466	a416h	a- h17	a- 7a1	SM66	dDl
&El Dpnl cmb	1a6 2	2210a	224- 6	22626	22412	1M81	dDl
Fpecmb	164 1	- haS1	42- h4	422S1	41- 6a	- M11	dDl
Fpecmb	164 2	1664S	166h1	16064	166h7	SM10	dDl
Hwon8Ccmb	16S 1	40a1S	401- a	46066	401- 0	SM0h	dDl
Hwon8Ccmb	16S 2	22646	22Sha	224S6	22- 72	1M4-	dDl
y n8b cmb	16a 1	h4h7a61	h06226-	1SSa011-	h002646	2M76	dDl
y n8b cmb	16a 2	467hh41	4h2- 42-	427a- a7	46- 2hS0	6M10	dDl
tCocmb	11a 1	67- - 024	6771674	02140a7	6h06022	2M10	dDl
tCocmb	11a 2	1S- 6ah2	1S00h61	h02h7S	1S2h107	aM14	dDl
tpnC	a4 2	212a667	2Sh6ah7	21S0a6-	21Shh4-	SM0S	dDl
tpnC	a6 2	- h411ah0	- hSa4720	- 771hah4	- hSha- - h	SM06	dDl
tpnC	a0 2	h27406	hS1712	h1h721	h160S-	1M47	dDl
KpEDTnC	7- 1	266	- Sa	274	27a	6M71	dDl
Lr wo	2S6 1	227a- a	2- 4442	2- 4aS6	2- 24h4	1M47	dDl

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Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 2S	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU04	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :u wb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	176S- 0	1h- 470	1h- - S0	1hSh44	2M4-	dDl
Lr wo	2S7 1	77ha1h	hSh2Sa	h1101S	hS- 407	1Mla	dDl
LdTGmb	6 1	242aa0S	2a- 7- S-	2a611a2	2aS7- 42	2M7h	dDl
9 wgCr l cmb	24 2	64h4a7	6410h4	6aaS76	64700h	1M8-	dDl
9 wCgwCr l r	aa 2	a140h-	a12Sh4	a1a- 21	a14S6h	SM4	dDl
9 n8Eeor Cmb	h4 1	2S7a7	2S- a0	21S16	2S044	1M6	dDl
9 n8Eeor Cmb	ha 1	44S1	4a17	404-	4aa4	- M2	dDl
9 n8Eeor Cmb	h6 1	7S44	0744	07a2	0h14	1M4-	dDl
9 n8Eeor Cmb	h0 1	26ah	2aaS	2610	26Sh	2M1S	dDl
9 n8Eeor Cmb	h7 1	017a	0- a2	027a	0204	1Mla	dDl
u r noEb cmb	1aS 1	700ah	hS- S2	7h4hS	7h174	1M6	dDl
u r noEb cmb	1aS 2	20241	26h2S	27S66	204Sh	2M6	dDl
u cdkr 8	6S 2	1S- 00	1S4a0	1SS20	1S270	2M2	dDl
NGhl DGhpml	- 1 2	41ah	4- Sh	4a4-	4- - 0	4M6	dDl
NnTwl cmb	- h 2	4h6274	4h7a41	aSSa- 0	4h74a4	SM4-	dDl
. Ghocmb	1S- 1	674S016	6744a16	6h060a2	6770- 27	1M2	dDl
. Ghocmb	1S- 2	- 4hh1h6	- 6722h-	- 2147h7	- 46a462	6M7S	dDl
l dwCocmb	4a 1	4- S- 260	4aS- 416	4a0- h72	446S222	- Mla	dDl
l dwCocmb	4a 2	1a6121	16- 244	144102	1a4a12	6M4	dDl
l r 8 Ccmb	72 1	122	124	1- a	120	aM2	dDl
l r 8 Ccmb	00 2	hS	110	11S	1S6	1- Mla	dDl
l r 8 Ccmb	07 2	1S2	0a	h6	h1	1aM7	dDl
l d8dnC	27 1	7aa1200	7622ha0	7a7Sa40	7a74h20	SM2	dDl
l d8vr p	1S0 1	10h2	16a7	10Sh	102S	- M2	dDl
l d8vr p	1Sh 1	16SS	167-	1a2a	16S-	4M4	dDl
l nocmb	2- 2	141h70	124672	12a771	1- S7aS	0Mh	dDl
l TpmCTcmb	76 1	7h4a0S	7h2422	hS22hh	7h64- S	SM7	dDl
l TpmCTcmb	77 1	7S72040	7267Shh	717hS- 1	710hhah	1M4	dDl
l m8mp	- 4 1	- 2a4h0	- 21a0h	- 16- 04	- 211aS	1M2	dDl
Ar pecmb	1ah 1	h4h77- 7	1SSSS06-	1SS1h40a	h7- h6h2	- M8S	dDl
Ar pecmb	1ah 2	44Sa160	467S00a	41h62a0	4420- hh	aM4h	dDl
AGw8mb	2S- 1	- 0ah	- 7a1	4Sah	- 7hS	- Mla	dDl
AGw8mb	2Sa 1	704a	hS4a	76a-	7714	2M-	dDl
AdC	117 1	0611	0644	72- 6	07- S	4M4h	dDl
AdTwCcmb	40 1	0111h	0S26a	0ShSh	0S064	SM0-	dDl
RpwCcmb	2- 7 1	a- h- 2	aaS70	aahS7	a4h0a	1M71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 2S	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU04	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja1JSa	&wTwUd8 :u wb r :J	122q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwocmb	a1 2	6- 416	62771	62h07	6- Sh2	SM4a	dDl
YTTr pecmb	102 1	12h- 2	1- 74h	1- 4S0	1- - h6	- M4-	dDl
YTTr pecmb	102 2	6- 0h	647a	0S41	66- a	aM6	dDl
YTTr pecmb	106 1	h612	haa4	hhS4	h6hS	1M14	dDl
YTTr pecmb	106 2	160aa	10SS6	1a021	164h4	4M1-	dDl
YTTpcmb	7h 1	120- 4464	1- 2007hS	1- 467a06	1- 16S- 1S	2M7h	dDl
YTTpcmb	7h 2	1a046aa	161a127	142426a	1a- 7S16	6M44	dDl
ZdCd	66 2	6SS6-	ahS22	a7674	ah2a0	1M21	dDl
ZqpdnCcmb	hS 1	4h7h7	aS1- -	4h2a4	4h062	SM11	dDl
ZqpdnCcmb	h1 1	1ShSa	1S646	1147S	11S1S	- M7	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 21	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU0a	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	0477- h	0aa46S	0a7- 20	0a42Sh	SM6a	dDl
qCTb nCE	121 1	2a42	- SSh	- 406	- SSh	1aM41	dDl
qpl r Ccl	0a 2	1- 76	1- hh	1- a1	1- 0h	1M7S	dDl
Bwpcmb	1- a 1	447hS0	466S27	4a72hh	4a004a	1M70	dDl
Bwpcmb	1- 0 1	7S7S4a	71h27a	71a6Sa	714- 12	SM0S	dDl
Br pE8mb	h 1	2100	2- 61	2226	22aa	4M22	dDl
Bdl b mTG	2Sh 1	67h6aa1	6h2h0h6	6774S42	6hS- 46-	SM4	dDl
Bdl b mTG	2Sh 2	- a0a2- 2	- 21a262	- 26S6a7	- - aS- 74	aM7a	dDl
Bpmb cCr	71 1	60S2	671S	0a44	0S1h	6M4-	dDl
5 wob cmb	1S7 1	142	11-	1a4	1- 6	1aM01	dDl
5 wob cmb	1S6 1	42a1	4S26	4SS1	4Sh2	- M0	dDl
5 wob cmb	111 1	11ah	110S	1S77	11- h	- M1S	dDl
5 w8lcmb	4- 1	164664	10Sah2	16021h	1604h2	1M07	dDl
5 w8lcmb	44 1	2hSa0S0	2776- 70	270h010	27hS6S-	SM40	dDl
5 wpenC	12 1	a4416- 0	a612- 11	a6h0h- 2	aa7- h6S	2M4	dDl
5 wpenC	12 2	674h4	6h16-	67aS2	6702S	SM46	dDl
5 G8mpCr	- a 1	1a- 6774S	1hS4h6- S	21144a6h	17a21S1-	1aM0h	dDl
5 G8mpCr	- a 2	164a27	10124a	106- 47	10S0S0	- M40	dDl
5 Gpmb cmb	a2 2	27- 07	274- 2	271h1	27- - 4	SM4a	dDl
5 new8T	ah 2	20470	20h14	20a0S	206a0	SM72	dDl
5 nDDr p	6- 2	aa006	a6hh0	a0- a2	a60S7	1M46	dDl
&El Dpnl cmb	1a6 1	6h016	01Sa6	024- 7	01S0S	1M41	dDl
&El Dpnl cmb	1a6 2	2h66S	- S1h0	- S06h	- S2Sh	1M74	dDl
Fpecmb	164 1	aah7a	a0776	a0S6a	a6h0h	1M60	dDl
Fpecmb	164 2	2- 1SS	2- h- a	2- ah7	2- a44	1M07	dDl
Hwon8Cmb	16S 1	6S2a-	6Shh7	621S4	61117	1M42	dDl
Hwon8Cmb	16S 2	2hh- 0	2h4Sh	2hh7S	2h006	1M80	dDl
y n8b cmb	16a 1	h014S41	1SS177- h	h0h6214	h74- S- 2	1M6S	dDl
y n8b cmb	16a 2	401aa7S	4- 6- 014	427a10-	44a4722	aM1a	dDl
tCocmb	11a 1	0S6S126	0226S64	01h6114	016S067	1M24	dDl
tCocmb	11a 2	1S7h14-	h002- a	h60722	1S114SS	6M60	dDl
tpnC	a4 2	24aaaS4	24aha0S	2a2h22S	24714- 1	1M60	dDl
tpnC	a6 2	4- h74206	4466h217	44667a26	4444S60-	SM7h	dDl
tpnC	a0 2	1S4767-	1SaS441	1Sa7442	1Sa2a22	SM4h	dDl
KpEDTnC	7- 1	- - S	- 11	- 24	- 22	2M10	dDl
Lr wo	2S6 1	1h7S6a	2S- - - -	2S17a7	2S1S7a	1Ma	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr pwTnp.J	swl Pw8
Lwe:l wb D8 :t&:.J	3 - 447 21	tCl Tpmb Cr T.u wb r :J	N7
5 8r CTl wb D8 :t&:.J	9 y SU0a	&8mTmC:UwdTnp.J	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	2S0 1	1620- 2	16042a	16aaa7	16a2- 7	1M4-	dDl
Lr wo	2S7 1	00a240	0h422h	07- - 07	07427a	1M21	dDl
LdTGmb	6 1	24h410S	2a- 0a0-	2a72SSh	2a- 0h10	1M0-	dDl
9 wgCr l mb	24 2	aS21S2	aS0462	aS4Sh4	aS4aa-	SM44	dDl
9 wCgwCr l r	aa 2	a4hh72	aa1626	a6S4a-	aa4S2S	1M82	dDl
9 n8Eeor Cmb	h4 1	124S6	1- 4a0	1- 4- 2	1- Sh7	4M47	dDl
9 n8Eeor Cmb	ha 1	42h2	4hS1	4- 74	4a26	0M2a	dDl
9 n8Eeor Cmb	h6 1	66- a	01- 6	67- a	676h	- M60	dDl
9 n8Eeor Cmb	h0 1	2hh2	270a	- S- 4	2h60	2M00	dDl
9 n8Eeor Cmb	h7 1	0aa2	011S	046h	0- 00	- M17	dDl
u r noEb cmb	1aS 1	11ha0a	124- 02	12220h	122S06	1M10	dDl
u r noEb cmb	1aS 2	- 07hS	- 7221	- h101	- 7420	1M0-	dDl
u cdkr 8	6S 2	11a47	117Sa	116a2	11667	1M11	dDl
NGhl DGhpml	- 1 2	- aSh	- a06	- 4- 4	- aS6	2M82	dDl
NnTwl l cmb	- h 2	414h44	414S76	416140	41aSah	SM2a	dDl
. Ghocmb	1S- 1	01121S-	01- 0h47	02117- 0	01a- h6-	SM02	dDl
. Ghocmb	1S- 2	- 016247	- - 74622	- - 4aS4h	- 471h0-	aM7a	dDl
l dwCocmb	4a 1	46S6470	4a472hh	462721-	4ah4- - -	SM1S	dDl
l dwCocmb	4a 2	1621S7	1461ha	1401aa	1a171h	aM77	dDl
l r 8 Ccmb	72 1	1- 1	14a	1- h	1- 7	4M10	dDl
l r 8 Ccmb	00 2	1aS	12-	1- 0	1- 0	hM0a	dDl
l r 8 Ccmb	07 2	1S6	h1	1S7	1S2	hM14	dDl
l d8dnC	27 1	7a01h- 7	76a616S	70SS627	7642hSh	SM06	dDl
l d8vr p	1S0 1	11SS	1S7-	12S7	11- 1	6M8S	dDl
l d8vr p	1Sh 1	haS	1SaS	1SaS	1S10	aM67	dDl
l nocmb	2- 2	a121S	aS4h0	4h776	aSa- 1	1M1	dDl
l TpnCTcmb	76 1	- 027S2	- 7aaa0	- hS474	- 72h47	2M7	dDl
l TpnCTcmb	77 1	- 4a1h47	- 6S671-	- 64- h02	- a60a07	2M7a	dDl
l m8mp	- 4 1	- S- - h0	- S- 1a7	- S4270	- S- 614	SM2S	dDl
Ar pecmb	1ah 1	1S11h7h-	1SS011a-	1SSa6727	1SS7262a	SM-	dDl
Ar pecmb	1ah 2	4011h4-	41- haS4	4160114	4- - ha2S	0M44	dDl
AGw8mb	2S- 1	2674	2042	- S- 4	272S	6M0a	dDl
AGw8mb	2Sa 1	6- 20	0- 6h	0SS2	67hh	0M66	dDl
AdC	117 1	7S61	7476	7661	74S-	- M60	dDl
AdTwCcmb	40 1	1h246a	1h07hS	1h6626	1ha66S	1M4a	dDl
RpwCcmb	2- 7 1	42071	42h1a	4- 172	42h6S	SM47	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 21	tCl Tpmb Cr Tu wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU0a	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja4JSS	&wTwUd8 :u wb r :J	12- q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . I &	RCdT
VwOwoomb	a1 2	64407	6- hah	6471-	64416	SM00	dDl
YTTr peomb	102 1	17- Sa	17- aa	1hS7h	17a7-	2M6	dDl
YTTr peomb	102 2	h270	h170	h2h7	h2a0	SM06	dDl
YTTr peomb	106 1	12072	1- 624	1- a04	1- - 20	- M4a	dDl
YTTr peomb	106 2	17a04	10617	107a1	17S14	2M00	dDl
YTTpomb	7h 1	1- 4a4- SS	1- h6S0S4	1- 77S0aa	1- 06a2a-	1M17	dDl
YTTpomb	7h 2	16S06- h	1401Sa-	1a2aSSh	1a- 4a60	4M17	dDl
ZdCd	66 2	4a40h	4a40h	464a6	4a7Sa	1M4-	dDl
ZqpdnComb	hS 1	20062	27- 1-	2h26a	27446	2M00	dDl
ZqpdnComb	h1 1	611S	6a1S	61S1	624S	- M04	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :uwb r :J	124q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	20 2	1Sh4ha-	1S70- aa	1ShS004	1Sh1S20	SMa	dDl
qCTb nCE	121 1	2160	2- 60	2- 74	2- S6	aM4-	dDl
qpl r Ccl	0a 2	1S7h	11- a	111S	1111	2M80	dDl
Bwpcmb	1- a 1	470470	4h700-	4726S1	47h62S	1M0h	dDl
Bwpcmb	1- 0 1	74a7- 1	7ha201	7a642-	76a741	- M81	dDl
Br pE8mb	h 1	27- 0	2hha	2h4a	2h26	2M0a	dDl
Bdl b mTG	2Sh 1	6hS402S	aa7h4S0	6hSh1- 0	64600aa	11M06	dDl
Bdl b mTG	2Sh 2	- 20a70a	- 272242	- 2aS0S-	- 26h6S0	SMd1	dDl
Bpmb cCr	71 1	0- - a	0h6h	0a61	0622	4M21	dDl
5 wob cmb	1S7 1	146	1a7	21-	102	2SMd0	dDl
5 wob cmb	1S6 1	4717	- 260	4- S1	412h	1hM12	dDl
5 wob cmb	111 1	16a1	14hh	1- h7	1a16	7M7	dDl
5 w8lcmb	4- 1	2h1Shh	2h6a2a	27712h	2h1h10	1M46	dDl
5 w8lcmb	44 1	aSSa201	4ha17- 0	4h062S6	4h00001	SMd4	dDl
5 wpenC	12 1	a2102- 0	aaS04h2	aa- SS4h	a4172ah	- M22	dDl
5 wpenC	12 2	64a74	6aa1-	67hS4	66- - 4	- M4-	dDl
5 G8hpcCr	- a 1	1076- 2- 0	21S6- 0S7	22haa1Sh	2S620- a1	12M47	dDl
5 G8hpcCr	- a 2	102621	10aah0	171S6-	106420	2M4-	dDl
5 Gpmb cmb	a2 2	2040-	2660a	2661a	26h21	1M07	dDl
5 new8T	ah 2	4S1S6	- h- 21	- h04a	- h024	SM1h	dDl
5 nDDr p	6- 2	0a- 42	04aS1	02042	041ha	1M0h	dDl
&El Dpnl cmb	1a6 1	aa6aS	a7021	a616S	a6744	2M1S	dDl
&El Dpnl cmb	1a6 2	24S- 2	24- 42	24a26	24- SS	1M8-	dDl
Fpecmb	164 1	44067	40142	46774	4626a	2M72	dDl
Fpecmb	164 2	1747S	177h0	1726-	17a46	1M04	dDl
Hwon8Cmb	16S 1	a1hh4	a46- 0	a2646	a- Sh-	2Md1h	dDl
Hwon8Cmb	16S 2	24Sha	24a1-	24- 2h	24- 12	SM76	dDl
y n8b cmb	16a 1	hh76S27	071S7h6	hh- 01a4	h2446h-	1- M4-	dDl
y n8b cmb	16a 2	421h- 4S	4- 2a- 12	412- 0- 1	42220h4	2Mh	dDl
tCocmb	11a 1	02- - S1S	a7a202-	0SaS210	6011h74	11M10	dDl
tCocmb	11a 2	h0Sa2h	hh- 60a	h66Saa	h060a-	1Md2	dDl
tpnC	a4 2	22647a4	21a76h1	222666S	22160- a	2M4-	dDl
tpnC	a6 2	- hh72- 4S	- h0aaaS7	- h617aa6	- h07a467	SM46	dDl
tpnC	a0 2	h4a46S	h4S77S	h- S4- 2	h- 7h24	SM72	dDl
KpEDTnC	7- 1	- 4a	- S6	- 12	- 21	6M40	dDl
Lr wo	2S6 1	1ha416	1hhSa2	1h1704	1ha447	1M74	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr Tuwb r :J	N7
5 8r CTl wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :uwb r :J	124q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	162aaa	16a07-	1a0161	1617- -	2M6h	dDl
Lr wo	2S7 1	0a1h0-	000460	04047S	0a7h0-	2M1-	dDl
LdTGmb	6 1	261h- aS	211hS- a	2a- - 012	2424S- 2	11M84	dDl
9 wgCr l mb	24 2	64- 61S	6- 2- S2	6416Sa	6- h102	SM14	dDl
9 wCgwCr l r	aa 2	6hSh7h	676204	60462h	67- h64	1M2-	dDl
9 n8Eeor Cmb	h4 1	2S- 6a	21Sh2	217- 4	21Sh0	- M47	dDl
9 n8Eeor Cmb	ha 1	- 274	- aa1	- 410	- 410	- M1S	dDl
9 n8Eeor Cmb	h6 1	664-	021h	0461	01S7	aM11	dDl
9 n8Eeor Cmb	h0 1	1hah	2260	22ah	2161	7M1-	dDl
9 n8Eeor Cmb	h7 1	a467	a64-	ah26	a60h	4M80	dDl
u r noEb cmb	1aS 1	h4122	hh446	h6S- a	h6a- 4	2M0h	dDl
u r noEb cmb	1aS 2	2h- 6h	2h1ha	2h42h	2h- - 1	SM41	dDl
u cdkr 8	6S 2	1124a	11aS1	1S7a4	112SS	2M11	dDl
NGhl DGhpml	- 1 2	2- ah	- S74	20- 4	202a	1- M1	dDl
NnTwl l mb	- h 2	- 6727a	- 647- 0	- 66S- 6	- 66- 76	SM47	dDl
. Ghocmb	1S- 1	026S667	a06a4- 0	02ha440	600- 7a1	12M7h	dDl
. Ghocmb	1S- 2	- 26hS16	- - 702- S	- 22aaS4	- 2h- h10	2M44	dDl
l dwCocmb	4a 1	47172SS	- 71a126	402a766	44a- S64	12M4a	dDl
l dwCocmb	4a 2	146427	14766S	142a66	14a77a	2M11	dDl
l r 8 Cmb	72 1	70	12h	1S0	1S7	1hM11	dDl
l r 8 Cmb	00 2	7-	1- 0	0S	h0	- 6M4S	dDl
l r 8 Cmb	07 2	h7	h2	ha	ha	- M16	dDl
l 8dnC	27 1	1SS66224	1SS7S2Sa	1S17761-	1S111671	SM06	dDl
l 8vr p	1S0 1	1- a7	1a2a	10S7	1a- 1	11M44	dDl
l 8vr p	1Sh 1	1a42	1a2a	127-	14aS	hM10	dDl
l nocmb	2- 2	1a00- S	16S60S	16S0- 0	1ah01-	1M87	dDl
l TpnCTcmb	76 1	67- - 62	0S- 70S	6h7S6-	6haSh7	1M42	dDl
l TpnCTcmb	77 1	6- - SS0a	6440h07	6- ha124	6- h1Sah	SM12	dDl
l m8mp	- 4 1	2h7- 2a	- S1SSa	2h707a	2hh- 02	SM47	dDl
Ar pecmb	1ah 1	1Sa16Sa1	7216S- 7	1S1a6aS2	h62ha- 1	12M7a	dDl
Ar pecmb	1ah 2	4Sh6h7a	424S6- 7	4S- - 662	412- 062	2M40	dDl
AGw8mb	2S- 1	2h- 4	- 110	20ah	2h- 0	6M1S	dDl
AGw8mb	2Sa 1	0161	0Sa2	04a2	0222	2M70	dDl
AdC	117 1	1S- 1-	1S421	1S1a4	1S2h6	1M1S	dDl
AdTwCmb	40 1	a674-	a4a7S	a44a4	aa2h2	2M4-	dDl
RpwCmb	2- 7 1	a2h11	a6Sah	a20S2	a- 7h1	- M4h	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 22	tCl Tpmb Cr T:u wb r :J	N7
5 8r CTI wb D8 :t&:J	9 y SU06	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17Ja6Ja7	&wTwUd8 :u wb r :J	124q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	a1 2	6hh46	01421	0110-	0S740	1M11	dDl
YTTr peomb	102 1	1- h04	14760	14- 60	144S-	- M11	dDl
YTTr peomb	102 2	0S41	0S24	6h46	0SS4	SM02	dDl
YTTr peomb	106 1	1S446	1Sa- 7	1S4a4	1S40h	SM47	dDl
YTTr peomb	106 2	16S1S	1a072	16- 1S	16S- 4	1M6a	dDl
YTTpomb	7h 1	1- hh07Sh	11S7a764	14S- - 10S	1- S- 7h47	12M10	dDl
YTTpomb	7h 2	141a0SS	1401SS6	142- 12h	14- 6612	2M8h	dDl
ZdCd	66 2	44- 1h	4- 604	4- 624	4- 702	SM77	dDl
ZqpdnComb	hS 1	aS71h	a- 26h	a267-	a22a0	2M4a	dDl
ZqpdnComb	h1 1	112- 7	12S- h	11402	11a7-	- M46	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
q8mb c mb	20:2	246	16S	1 S	1	22N87	dDl
q. Tb C. h	121:1	1-S	210	1-N	10-	2SN06	dDl
qpl r . cl	0-:2	0	1	-	4	0SMS	dDl
Bwpcmb	17-:1	2-S	1N7	1-S	1 4	26M1	dDl
Bwpcmb	170:1	72-	242	160	244	72M4S	dDl
Br ph8&mb	:1	60	0	N1	06	N06	dDl
Bcl b mTE	2S :1	02661 N	0S0SNNN	0S0 176	017N041	1M-	dDl
Bcl b mTE	2S :2	77112-0	77 7 N6	72N7S-S	772 471	1N07	dDl
BpCb c r	N1:1	7 S	4674	42S1	424N	NM	dDl
F wob mb	1SN:1	7N	2-	21	2N	71N27	dDl
F wob mb	1S6:1	7642	7-26	77N4	7-10	7N6N	dDl
F wob mb	111:1	4S	7 7	7N2	7 -	7M	dDl
F w8lmb	47:1	4SS	41S	70	7 6	4N87	dDl
F w8lmb	44:1	41- - N	41714	4S62N	41160	1M10	dDl
F wpeC.	12:1	22 - N-	2260N-7	2207 2	220 214	SN6-	dDl
F wpeC.	12:2	26 60	20-S1	202-	20247	SMN	dDl
F E8Cpc r	7-:1	47 7-6	41 -6N	7 00464	41 SN70	-N87	dDl
F E8Cpc r	7-:2	246NS	27- -	21 -S	274SN	-NN0	dDl
F EpCb mb	-2:2	171S	172S	1120	12-2	NN6	dDl
F Cew8T	- :2	NS	00	67	07	12N87	dDl
F CDDr p	67:2	1067	177S	11S7	17	27M0	dDl
&hl DpCl mb	1-6:1	S	10	N	N	1SSN82	dDl
&hl DpCl mb	1-6:2	7	0	7	4	47M4S	dDl
Upemb	164:1	-N	60	-N	61	0NN	dDl
Upemb	164:2	10	27	27	21	1N21	dDl
GwoC8c mb	16S:1	12-	N7	1SS	1S7	2SM4S	dDl
GwoC8c mb	16S:2	140	16S	117	14S	10M10	dDl
HC8b mb	16-:1	1S721217	1SS- - 64N	1S1SN 16	1S161 26	1N7N	dDl
HC8b mb	16-:2	422447N	42 676	4767-4N	42 -N04	1N62	dDl
t. omb	11-:1	0671SS0	070SS11	027 260	041742N	2N6	dDl
t. omb	11-:2	S216	1S170- -	N4S N	6S27	1M0	dDl
tpC.	-4:2	061	-SS	-44	6S2	27N21	dDl
tpC.	-6:2	1S166	-60	6S 6	0714	77NN	dDl
tpC.	-0:2	711	222	1N7	27	20M42	dDl
KphDTC.	N7:1	2- -	2-0	261	2-N	1N42	dDl
Lr wo	2S6:1	1460	144-	1411	1441	1M4	dDl

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr o.Ja	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3l 1	F3l 2	F3l 7	F3l 9 r w.	F3l y l &	5 . cT
Lr wo	2S0:1	1SN	12-S	1122	11-4	0M10	dDl
Lr wo	2SN:1	-6S1	-N4S	-42N	-627	7M60	dDl
LcTEcmb	6:1	2-- 770	24-6-26	2-6S1S	2-2-724	2M16	dDl
9 wg. r l cmb	24:2	17 2	-SS	4N7	0 2	6-M0-	dDl
9 w. gw. r l r	--:2	2 0	110	1-S	1NN	-1M8S	dDl
9 C8heor . mb	4:1	4SN	72-	7SS	744	16M40	dDl
9 C8heor . mb	-:1	760	477	277	744	2 M0	dDl
9 C8heor . mb	6:1	-SS	-77	460	-SS	6M60	dDl
9 C8heor . mb	0:1	2SN	2-N	160	211	21M04	dDl
9 C8heor . mb	N:1	6 2	60-	70-	-N1	7SM0S	dDl
u r Cohb cmb	1-S:1	17	17	S		N6M0S	dDl
u r Cohb cmb	1-S:2	7	7	0	4	47M4S	dDl
u cdkr 8	6S:2	-7	60	60	62	12M7N	dDl
3 ECl DECpm	71:2	1SN	1-S	2	110	2-M0-	dDl
3 CTWl l cmb	7 :2	114--	11167	117--	11724	1M71	dDl
y ECocmb	1S7:1	001N-4N	0440N67	02-0N44	04040-1	7M1S	dDl
y ECocmb	1S7:2	7717S76	7444020	772 26	7762-67	2M17	dDl
l dw. ocmb	4-:1	4 SS704	40SS7-1	400101N	40 SN14	2M12	dDl
l dw. ocmb	4-:2	140644	14 61N	14 -61	14N 41	SM0-	dDl
l r 8 . cmb	N2:1	:70	:4	:14	:1N	: 4M4	dDl
l r 8 . cmb	00:2	S	S	S	S	SM8S	dDl
l r 8 . cmb	0N:2	1-	N	16	17	77M7	dDl
l 8dC.	2N:1	1N7N 4	10021	106476	10 1N7	2M2	dDl
l 8vr p	1S0:1	242	160	1 2	2SS	1 M1S	dDl
l 8vr p	1S :1	12-	12-	142	171	0M10	dDl
l Cocmb	27:2	2-471	27 N0	24- 6	24601	2M4	dDl
l TpC. Tcmb	N6:1	1SSS	60	11SS	1S22	6M0	dDl
l TpC. Tcmb	NN:1	- 1	1S471	7674	6661	-1M7	dDl
l m8mp	74:1	207164	20242-	26NS0	201227	1M81	dDl
Ar pecmb	1- :1	1S-7 S N	1S10-10	1SS67240	1S2- 10-	2M17	dDl
Ar pecmb	1- :2	41--S77	4201117	4S 641	41041NN	2M17	dDl
AEw8cmb	2S7:1	4N7	-60	777	461	2-M04	dDl
AEw8cmb	2S-:1	1442	11-N	11-N	12-7	17M86	dDl
Ac	11N:1	1142	120-	110-	11 0	-MS	dDl
AcTw. cmb	40:1	2-S	2 2	777	2 2	14M2	dDl
5 pw. cmb	27N:1	20-	2 2	177	277	70M2	dDl

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Inst Id :P8

LB.Jumb er pJa	LB1264S0	n Dr pwTCpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3B1-7 66BL	t. l Tpmb . r TJu wb r Ja	3N
F8r . TJ wb D8 Jt&JaJ	3BI 66	&8mTC. JRwdTCpJa	1
&wTr J JAcb r JqdOmpr oJa	2S27:S0:12J1 aS1a22	&wTwRc8 Ju wb r Ja	12-FFBUM

3wpwb r Tr p	9 wl l	F3I 1	F3I 2	F3I 7	F3I 9 r w.	F3I y l &	5 . cT
Vw. wocmb	-1:2	-S	10	7S	72	-2N36	dDI
YTTr pecmb	102:1	2-	1SN	2	0-	-NNMS	dDI
YTTr pecmb	102:2	-S	22	7	70	70N0-	dDI
YTTr pecmb	106:1	11N7	1--N	1777	17-N	17MS	dDI
YTTr pecmb	106:2	11720	11 60	12-07	11 -6	-N21	dDI
YTTpcmb	N :1	17NN4S61	17721070	1714 N1	174-1 26	2NN-	dDI
YTTpcmb	N :2	12 70S-	14S1N-1	12 1441	172N	4N0-	dDI
Zc d	66:2	1N7	1-7	1N7	107	M	dDI
ZqpdC. cmb	S:1	-2-	410	-SN	4N7	12N30	dDI
ZqpdC. cmb	1:1	60	1-N	177	11	7 N60	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 66B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&aaa	LF: 66	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12al sS4s2-	&l T Rdpamle pas	126LF: UMd

3lll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
qNbe c dbe	20J2	16-2	1--	1014	1642	4M06	dDP
q. Tde C. h	121J1	10-12	1u70	10-S7	100 u	2M7	dDP
qlPp. cd	0-J2	201	27-	2-u	2--	0M16	dDP
Bl ldbe	17-J1	1uu64	1 2 u	1 6u2	1 2u1	2M12	dDP
Bl ldbe	170J1	7706S	744 -	7772-	77u6S	1M0-	dDP
BplhNbe	J1	2240	27-4	2774	2712	2M44	dDP
BdPe bTE	2S J1	6u-u4 0	601-uS2	6646 S0	604S4S2	1M0S	dDP
BdPe bTE	2S J2	712S020	7741u4	7214 0	722-u-1	7M44	dDP
BlCe c p	u1J1	41u4	4S06	42S	41-6	1M01	dDP
Fl oe dbe	1SuJ1	221	2-S	101	214	1uM02	dDP
Fl oe dbe	1S6J1	7u60	7606	76S	7010	7M01	dDP
Fl oe dbe	111J1	2672	267	2u-4	20Su	4M06	dDP
Fl Ndbe	47J1	17S64	17S60	17S7u	17S-6	SM12	dDP
Fl Ndbe	44J1	24402S	246 2	24460u	24-442	SM12	dDP
Fl lr C.	12J1	27S67 7	22 26S6	22 210-	22 0S-u	SM7-	dDP
Fl lr C.	12J2	2006u	261	20u1S	202-	7M70	dDP
FENCl c p	7-J1	262 6 6	24u44u2	24-S074	2-21670	7M00	dDP
FENCl c p	7-J2	1- u4	1-7-	14624	1-722	4M44	dDP
FElCe dbe	-2J2	677-	61 -	662-	67u-	7M44	dDP
FCrl NT	- J2	-214	4 7u	-161	-1S4	2Mu	dDP
FCDDpl	67J2	S26	S S	277	116	1M16	dDP
&hPDlCPtbe	1-6J1	S	S	S	S	SM3S	dDP
&hPDlCPtbe	1-6J2	7	7	S	2	u6M0S	dDP
Ulr dbe	164J1	2	2-	-S	-6	6SM02	dDP
Ulr dbe	164J2	7S	17	20	27	70M1	dDP
Gl oCNl dbe	16SJ1	1Su	-u	1SS	u	7SM14	dDP
Gl oCNl dbe	16SJ2	110	1S0	170	12S	12M07	dDP
HCNe dbe	16-J1	076-24	u067S0	027- 2	00uuSu	SM10	dDP
HCNe dbe	16-J2	7 6S6Su	427-177	41S2 6	4S -0S	7M-	dDP
t. odbe	11-J1	024S -2	0126427	0S1 462	012u 46	1M-	dDP
t. odbe	11-J2	1020u	0-uu0	4-2S7	46122	7M1S	dDP
tlC.	-4J2	2-70u	246u7	24-00	24u0	1M0-	dDP
tlC.	-6J2	4467-4	4776-S	44S177	44SS4-	1M44	dDP
tlC.	-0J2	112u2	1S01S	1S S4	1S 6-	2M06	dDP
KlhDTC.	u7J1	262	2-1	2u1	26-	-M02	dDP
Lpl o	2S6J1	u 71	471	S70	177	2M	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	3B1-7 66B:	t. PTlbe . pTamle pas	3u
FNp. Ta l e DNpla&asa	LF: 66	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12al sS4s2-	&l Tl Rdpamle pas	126LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Lpl o	2S0J1	u-2-	u16	u1-7	u2u2	2M4	dDP
Lpl o	2SuJ1	702u7	7016S	76S4u	76u7S	1M-	dDP
LdEdbe	6J1	2406102	24267u7	2477742	244-2	1M1S	dDP
9l g. pPdbe	24J2	1S-44u	1S7S67	1S77 S	1S7 60	1M24	dDP
9l . gl . pPp	- - J2	17-0	14S7	17 0	17u6	1M12	dDP
9 CNr op. be	4J1	1u2uu	2S1 S	1 S7u	1 102	-M3S	dDP
9 CNr op. be	- J1	22u61	2722u	2770S	271-7	1M17	dDP
9 CNr op. be	6J1	2-u77	2-4 1	26260	2-u64	1M1S	dDP
9 CNr op. be	0J1	14204	1-12-	146SS	14666	2M7	dDP
9 CNr op. be	uJ1	7u7 6	76u-S	70706	70-4S	2M3	dDP
mpCohe dbe	1-SJ1	17	17	S		u6M1S	dDP
mpCohe dbe	1-SJ2	7	17	7	0	u6M1-	dDP
mdkpN	6SJ2	1477	14S7	1440	142u	1M-	dDP
3ECPDECIbP	71J2	12-	1SS	1-S	12-	2SM3S	dDP
3CTl PPdbe	7 J2	0770	01-1S	0770	020-6	1M4u	dDP
y ECodbe	1S7J1	022u60	01SuS7S	024S4-4	01 27u0	1M32	dDP
y ECodbe	1S7J2	710u142	7766Su0	7167 40	7276S-	7M4	dDP
: dl . odbe	4-J1	40S22S4	46 600	460u14u	46 7747	SM2u	dDP
: dl . odbe	4-J2	17 706	14u1u2	141 10	1471-	7M10	dDP
: pNp. dbe	u2J1	uu-	u0-	0u2	u40	6M10	dDP
: pNp. dbe	00J2	2S	20	27	27	14M2	dDP
: pNp. dbe	0uJ2	7	11-	1S4	1S4	1SMu	dDP
: dNdC.	2uJ1	27 02-	270u4-	2767u1	270 u4	SM7S	dDP
: dNpl	1S0J1	12264	120u1	12764	1240S	2M2S	dDP
: dNpl	1S J1	1S 7S	1107S	11101	11200	7M64	dDP
: Codbe	27J2	2SS226	2SS62-	2S26uu	2S11uS	SM66	dDP
: TC. Tdbe	u6J1	76S	74S1	72SS	74S7	6M3S	dDP
: TC. Tdbe	uuJ1	20u0	2-772	240S6	2- 02	6M40	dDP
: bNbl	74J1	202727	20 S6S	2061-4	20-u46	1M27	dDP
Aplr dbe	1- J1	0-72 S	u-7407	uS 22	uS-771	SM1	dDP
Aplr dbe	1- J2	7uu1 44	411 6-S	4S200u6	4SS 0 7	2M	dDP
AEl NNbe	2S7J1	1SS62	1S267	1S117	1S146	1M37	dDP
AEl NNbe	2S-J1	24424	24-S0	24u66	24-	SM6	dDP
Ac	11uJ1	14Su	1710	110-	17SS	M34	dDP
AdT. dbe	40J1	0S6	6 7-	6 7-	6 uS	1M1S	dDP
5ll . dbe	27uJ1	772S7	770 6	7771	7747	SM4	dDP

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LBamber plas	LB1264S0	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	3B1-7 66B:	t. PTlbe . pTamI e pas	3u
FNp. Ta l e DNpla&aaa	LF: 66	&dNTc. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	2S27JS0J12a1 sS4s2-	&l Tl RdNpamI e pas	126LF: UMd

3l ll e pTpl	9l PP	F3: 1	F3: 2	F3: 7	F3: 9pl .	F3: y: &	5. dP
Vl . l odbe	-1J2	1S4u4	40	1S12S	1S1u4	2M6	dDP
YTpIr dbe	102J1	60	0-	u	-S	02M6-	dDP
YTpIr dbe	102J2	44	-6	2u	47	72M7	dDP
YTpIr dbe	106J1	1777	1277	1777	17SS	4M4	dDP
YTpIr dbe	106J2	1S747	11 S6	11422	11227	0M7	dDP
YTTdbe	u J1	17S S--	17Su6 4S	12 Su 60	17S2uu22	SM5	dDP
YTTdbe	u J2	12S S2u	17000 -	124-1S1	12007Su	6M6	dDP
Zc d	66J2	2624	266S	2-S4	2- 6	7M6	dDP
ZddC. dbe	SJ1	1-20-	1621u	14 77	1-406	4M5	dDP
ZddC. dbe	1J1	7S60	7726	7-S	77SS	6M2	dDP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP usb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	2461: 42	2- : 01: :	2446- 14	24- h1h2	1M:	dDw
qCTb nCE	12171	1h0h	160h	2S60	1002	14N06	dDw
qpwr Ccd	0h72	6N: N	6621	6066	6062	2N8h	dDw
Bspcmb	1- h71	20- h1S	20N: 22	204N02	20h06N	1N82	dDw
Bspcmb	1- 071	4: 2110	4: 6S10	4Nh2- N	4: 1124	1M1	dDw
Br pEPRmb	: 71	11N4	11S2	11- 6	1141	- M1N	dDw
Bcwb mTG	2S: 71	hN6: 422	6- N2: - N	6: Nh01-	64126: 1	NM1	dDw
Bcwb mTG	2S: 72	- 1N6N: N	- 2- hN21	- - - 64S:	- 2h- S4-	2M4	dDw
Bpmb cCr	N171	h126	4Nh:	hSN4	hS2-	2NM6	dDw
5 sob cmb	1SN71	1- -	0h	60	: 2	- : M0-	dDw
5 sob cmb	1S671	- 1: 2	- 6S:	- : N4	- h: h	11N82	dDw
5 sob cmb	11171	hNN	060	60-	606	1- M2S	dDw
5 sPlcmb	4- 71	N46: S	N- 66:	N4S: 6	N41h2	SM61	dDw
5 sPlcmb	4471	1402N: :	14066h1	14: - 200	14NS: 42	SM0-	dDw
5 spenC	1271	20: : h0h	2N201hN	2NN2: h:	2N- 6h64	1M1S	dDw
5 spenC	1272	- 42: S	- 42h0	- 6SS-	- 4NhS	2NM0	dDw
5 GPmpcCr	- h71	1h414h- S	2S2642NS	2- h2- 6h2	1: 0- 41h4	2SM6N	dDw
5 GPmpcCr	- h72	1: - 0N4	2Sh- SN	21SSN2	2S- ShN	4M1-	dDw
5 Gpmb cmb	h272	1404h2	1440Nh	1462S:	14614N	SM11	dDw
5 nesPT	h: 72	1S42h2	1S4- - h	1S- S40	1S- N0N	SM6:	dDw
5 nDDr p	6- 72	20S4h2	201024	26: SN0	20S421	SM4:	dDw
&EwDpnwcmb	1h671	21S10	2S02h	214: -	21S0N	1MM4	dDw
&EwDpnwcmb	1h672	: 6N4	: 620	: h- S	: 614	SMM1	dDw
Fpecmb	16471	2166N	22100	2106N	21N01	1M2-	dDw
Fpecmb	16472	N- - -	N0: -	: SS-	N01S	- M4	dDw
HsonPCcmb	16S71	224: h	2242N	22661	22h2N	SM1-	dDw
HsonPCcmb	16S72	1S44N	11S0h	1S- 21	1S614	- MMS	dDw
KnPb cmb	16h71	N6114N1	: 10: 20h	1S- 42141	: - 006- 2	: M41	dDw
KnPb cmb	16h72	420NNSS	42: S641	4- 462S-	4- Sh21h	SMM4	dDw
tCocmb	11h71	611- : Nh	6h46Sh0	0- S2- 20	66h412-	: M84	dDw
tCocmb	11h72	: 6S146	: N6S4S	: : 2SNS	: 0: 422	1M0-	dDw
tpnC	h472	4: 02- N2	4: 04hh:	4: 001S4	4: 046N2	SM8h	dDw
tpnC	h672	: S2N2: - S	: S: 40: 00	: 1- hS004	: SN6Sh6S	SM1:	dDw
tpnC	h072	2- hhS40	2- 6S: 4N	2- 0S: : -	2- 62- 2:	SM4	dDw
gpEDTnC	N- 71	26S	- - S	2: S	2: -	11M0	dDw
Lr so	2S671	h4026	h4: N-	h44- 1	h401-	SM11	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP usb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	46N46	4h0- 1	44020	4h06N	2M12	dDw
Lr so	2SN71	21hNh0	21- N21	2126S0	214S: h	SM00	dDw
LdTGmb	671	2- S2h2N	24110N0	2h4N1SS	242SNSh	hMSN	dDw
9 sk Or wcmb	2472	- S0- 2N1	- S4: 446	- 1- N0- 6	- SN01h4	1M1S	dDw
9 sCksOr wr	hh72	11- h1- S	112: - - N	11- 26: N	11- 2- N:	SM26	dDw
9 nPEeor Cmb	: 471	11h02	11040	110Sh	1160h	SM0N	dDw
9 nPEeor Cmb	: h71	- 0h:	41S:	- : 10	- : 2N	4M46	dDw
9 nPEeor Cmb	: 671	hNh1	hNh1	61h2	h: h1	2M11	dDw
9 nPEeor Cmb	: 071	2- 42	260h	24: 2	2hS-	6M60	dDw
9 nPEeor Cmb	: N71	614-	6100	6600	6- - 2	4M02	dDw
u r noEb cmb	1hS71	2N116	2N1S-	20: 6:	2NS6-	SM2:	dDw
u r noEb cmb	1hS72	N64-	Nh: -	NN66	N0S1	1M60	dDw
u cdvr P	6S72	124S0:	126hh4	12- S- 0	124hh0	1M4h	dDw
8 GhwDGhpmw	- 172	21: 2	2410	2142	22hS	6M11	dDw
8 nTswwcmb	- : 72	1S- 01-	1S2: 16	1S- h0:	1S- 4S-	SM41	dDw
. Ghocmb	1S- 71	6140N- 0	66: hS: h	01410N2	6661h01	0M40	dDw
. Ghocmb	1S- 72	- 22- 0N:	- 2: 0N61	- - 40SS:	- 2N: hh-	1MN:	dDw
I dsCocmb	4h71	414: : : 4	44hN64h	4: hS: 20	4h1: Nhh	NM4	dDw
I dsCocmb	4h72	14: : 0h	1h1- 0-	1hS4hh	1hS6S1	SM40	dDw
I r PCcmb	N271	N1	71h	h4	4S	12- M2	dDw
I r PCcmb	0072	- -	h-	10	- 4	h- M2:	dDw
I r PCcmb	0N72	- 6	40	- -	- :	1: M36	dDw
I dPdnC	2N71	216: 2114	216: 01N6	21hhSh- 2	21646611	SMN	dDw
I dPr p	1S071	02h	02h	6N-	011	- MN	dDw
I dPr p	1S: 71	610	60h	hhS	614	1SM1:	dDw
I nocmb	2- 72	0101S	02: - h	02: : 2	02h46	1MSS	dDw
I TpnCTcmb	N671	NN4- :	NNN41	: SS2-	N: 1S1	SM2	dDw
I TpnCTcmb	NN71	0: : 6: 4	0N162:	00- 2S:	0N4N44	1M02	dDw
I mPVmp	- 471	26SN66	2h2261	2hSh0:	2h4h6:	2M10	dDw
Ar pecmb	1h: 71	N6- - 1- :	: 1- h626	1S2S- 211	: - 2- : : 2	NM6S	dDw
Ar pecmb	1h: 72	411- S44	4164S4N	422242h	4166hS6	1M1	dDw
AGsRPcmb	2S- 71	12SS	11- -	1- hS	122N	: MS4	dDw
AGsRPcmb	2Sh71	20: 2	2N: 2	20: 2	2N2h	2MS4	dDw
AdC	11N71	2: N4	- 10h	- 2h1	- 1- 0	4M:	dDw
AdSCcmb	4071	640N0-	6hN: 0N	6hh- h4	6h4S6N	SMN0	dDw
RpsCcmb	2- N71	- 42N:	- - 0S4	- 21hN	- - - N-	- MS	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S4	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: JS0J26	&sTsUdP u sb r J	120q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	142hS:	142242	14142N	142S6S	SM4S	dDw
YTTr pe omb	10271	641S	64h2	626N	6- 00	1M11	dDw
YTTr pe omb	10272	- SS6	- S60	- S0N	- ShS	1M2N	dDw
YTTr pe omb	10671	hS6N	h4h1	h2S1	h24S	- M02	dDw
YTTr pe omb	10672	1- 4: 6	1- 2Nh	142- 6	1- 602	- M6h	dDw
YTTpomb	N: 71	11N: Shh1	12- 1: 226	1- h4S6- 1	12hN- 46:	6MMS	dDw
YTTpomb	N: 72	14S- - h:	1- 6- 0S0	142h264	1- : 044-	2M4-	dDw
ZdCd	6672	- - 4h6	- 4- 22	- - h4-	- - 004	1M41	dDw
ZqpdnComb	: S71	2hN16	2h- 4N	26- SS	2hN22	1MM4	dDw
ZqpdnComb	: 171	h: Nh	hNh1	624-	6S26	- M1	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4- - 7S	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y shd J2T	T8biqC. :MwOICI:a	1
Twip:A:cqe p:dOobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMd8p:mwe p:a	12udF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	2072	2- - 2260	2- 00JJ4	2- u2 -	2- 64201	1R1u	OI
d. iqe C. E	12171	12Su	102	16 S	1 2u	1uR20	OI
dIl p. qO	0 72	6 0	6 41	6 Ju	6 66	SR4	OI
Bwldpe	1- 71	260J- -	20S- 04	26Juuu	26J- JJ	SR4u	OI
Bwldpe	1- 071	402JSJ	40- 214	40212S	40204u	SR12	OI
BplE8dpe	J71	11- S	1S06	11 S	111J	- R41	OI
Bdqe biG	2SJ71	60 1S21	6uJJu14	6J- 22	6u6211J	1R4-	OI
Bdqe biG	2SJ72	- 2 S62	- - - 4604	- 26- u01	- 2u- S 6	1Ru	OI
BIOe q p	u171	S06	S 1	404-	4J 0	- R0	OI
9 wne dpe	1Su71	u-	J6	1S4	J4	11R11	OI
9 wne dpe	1S671	- 026	- 6 J	- J42	- 006	- R12	OI
9 wne dpe	11171	6- 1	61	J6	J6	R14	OI
9 w8Odpe	4- 71	u161S	u- 02	u- JS	u2J0	1R4-	OI
9 w8Odpe	4471	14u- u41	14u 4u4	14662uJ	140u - u	SR02	OI
9 wIr C.	1271	200 SS1	2uS60JS	2u- 01	2uS u-	1RSu	OI
9 wIr C.	1272	- - 6u1	- - - J0	- - 121	- - 4SS	SR14	OI
9 G8Clq p	- 71	2- 202J4u	2uS6041-	- Su0uJJ	204S64 2	14RS-	OI
9 G8Clq p	- 72	2- S4S	2- 12S	24- - -	2- 62J-	2R00	OI
9 GIOe dpe	272	160S60	1666u6	16442S	166S u	SR16	OI
9 Or w8	J72	1S6 22	1S - 2-	1S 44S	1S 062	SR62	OI
9 Ot t pI	6- 72	262 10	262- 0u	26 061	26- 2	SR0-	OI
TEI t IOI dpe	1 671	2S- 4J	2S6 S	2101u	2SJS6	- R44	OI
TEI t IOI dpe	1 672	J120	J- 6-	u04-	JS0u	- R4	OI
UIr dpe	16471	2S060	21 S1	21- 10	211J	1RuS	OI
UIr dpe	16472	u006	u24J	u64S	u	- R2S	OI
HwnO8q dpe	16S71	21- S1	22S20	214 J	21 J6	1R00	OI
HwnO8q dpe	16S72	1S0 u	1S- 14	1S- J1	1S4uu	2R26	OI
KO8e dpe	16 71	JJS	1SSS41 2	JJ4 2J	JJ 104	SRS	OI
KO8e dpe	16 72	421 620	4- 4J00	41024 J	42406uu	2R2	OI
& ndpe	11 71	6JJ- S1u	02J2664	020 6S1	01u0SJ4	2R4	OI
& ndpe	11 72	J664- u	Ju2JJJ	J - - 0	J606 u	1R-	OI
&C.	472	S4 S0-	S1 21J	4JJ061S	S1J- S1	SR4u	OI
&C.	672	J- 1uJ0- u	J11- 6S04	uJJ 2- J1	J1426S6u	1R0J	OI
&C.	072	24116- 1	2- 414JS	2- - 1400	2- 61 - -	1Ru	OI
gIEt iC.	u- 71	200	2J1	- S1	2JS	4R11	OI
Lpwn	2S671	22u-	- 61	240u	2004	1RS	OI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 4- - 7S	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y shd J2T	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMt8p:mwe p:a	12udF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S071	420 4	4- 1	42uuu	4- S64	SR3J	CI I
Lpwn	2Su71	2S- 22S	2S6- S0	2S - S2	2S4J4-	SR00	CI I
LqiGdpe	671	2 - S2	26J S	266- 0	26- 020u	2R4-	CI I
y wk. pl dpe	2472	2JJ0S1J	- S2 422	- S2u 0-	- S10SS	SR u	CI I
y w. kw. pl p	72	111210	11S6- 4J	11S2SSu	11S6u44	SR46	CI I
y C8Er np. be	J471	11- 22	11J- J	124S6	11uuJ	4R 0	CI I
y C8Er np. be	J 71	4S- 4	4206	4226	410J	- R8	CI I
y C8Er np. be	J671	6- 00	61u	621u	626S	1R64	CI I
y C8Er np. be	J071	24u4	2u S	20SJ	26u1	6R3S	CI I
y C8Er np. be	Ju71	60 2	6020	6u6S	60uS	1R8	CI I
mpOnEe dpe	1 S71	206u2	2u6 u	20 0	20J02	2R1-	CI I
mpOnEe dpe	1 S72	uuSS	u 6J	u -	u641	1R6S	CI I
mqOvp8	6S72	124u2	122J2J	12- S24	12- J-	SR46	CI I
NGCI t GCIbI	- 172	220	21J2	2- 10	2261	2R42	CI I
NCiwl l dpe	- J72	1S- - 1S	1S16u-	1S1 uJ	1S21J4	SR3	CI I
F GCndpe	1S- 71	01- u- 06	0S44616	0S0S2	0Su4416	SR6u	CI I
F GCndpe	1S- 72	- 26Su0u	- - 4161u	- 2- Ju22	- 2uS002	1R64	CI I
DOw. ndpe	4 71	401S210	4u24 u	400S6- 0	406u401	1R2S	CI I
DOw. ndpe	4 72	1 S106	1 4012	14 u14	1 S2- 4	2R36	CI I
Dp8p. dpe	u271	J	1	16	- S	u- R8-	CI I
Dp8p. dpe	0072	40	- S	4S	- J	21R 0	CI I
Dp8p. dpe	0u72	- 2	- u	41	- 0	12R J	CI I
Dq8QC.	2u71	2S01uu60	2Su06626	2S644J11	2S046uS1	SR 0	CI I
Dq8pl	1S071	u-	0J2	6u-	6u6	1 R1J	CI I
Dq8pl	1SJ71	S	42	62	02	uR82	CI I
DOndpe	2- 72	02 0-	6J- - 2	0SJ 6	0SJ 4	2R2u	CI I
DilC. idpe	u671	u J1	u0uS1	u0uJ-	u02S-	1R2u	CI I
DilC. idpe	uu71	046166	04u S0	0 u- S0	0 SJJ-	SR46	CI I
Db3Vl	- 471	240 J6	2- JS21	2421 0	242J2	1R0J	CI I
cplr dpe	1 J71	J66J104	JJ 202J	1SSS- uJJ	Ju0 26u	1R4-	CI I
cplr dpe	1 J72	4S6u4u1	41466- J	4S64JJ	4SJ- - 02	1R1-	CI I
cGw8pe	2S- 71	J60	uSS	1Su-	J S	14R3J	CI I
cGw8pe	2S 71	26- 4	2110	24J2	2414	11R86	CI I
cq	11u71	26- 4	2JSS	2J10	2u10	R6	CI I
cqiw. dpe	4071	6 - - 6-	6 u1 J	641- 21	6 SJ4u	1R -	CI I
5 Iw. dpe	2- u71	- 2460	- 2626	- 2u4-	- 264	SR u	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T :a	3 - 4- - 7S	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T :a	y shd J2T	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- 7S0712:1Ja1Sa2-	TwiwMd8p:mwe p:a	12ud F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
hw. wndpe	172	144SS0	14Su42	14SJu6	141J4	1R26	Qil
Yiiplr dpe	10271	61S2	62u	62-	62S0	1R -	Qil
Yiiplr dpe	10272	- S- 4	2J61	- - 2-	- 1S6	6R1	Qil
Yiiplr dpe	10671	206	- 1	- 1	- 26	SRu1	Qil
Yiiplr dpe	10672	1- - 24	1- 424	1- 2S1	1- - 16	SRu4	Qil
Yiildpe	uJ71	12J S1S1	1- 26SS4	1- 2212u	1- 244SJ1	2R16	Qil
Yiildpe	uJ72	1- 16- S4	1444JSu	12uu6u0	1- 4JJ66	6R1u	Qil
Zq O	6672	- - 02-	- 4- - 2	- 406-	- 420-	1R 2	Qil
ZdlOC. dpe	JS71	24u2-	2 004	26 SJ	2 0S2	- R2J	Qil
ZdlOC. dpe	J171	6SS1	u26	6- 1S	6S46	4RS	Qil

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23O2	4- O661	4- 1366	426612	42: 6NO	OU6-	ql w
cR&b nRy	12101	- 7O	- 13	- - -	- - -	7UOO	ql w
cSvr RAq	37O2	12ON	12: N	121:	1242	- U7	ql w
BsSAmb	1- 701	712: O	7144O	71666	71467	OU3	ql w
BsSAmb	1- 301	N: 32-	: O271	: O6- 3	: O2O4	OU71	ql w
Br SyPAmb	: 01	23O	277	2: 4	23-	3U16	ql w
BAb m&a	2O. 01	63144- 4	6N47: 4:	63N1- : -	63NO7: 2	OU3	ql w
BAb m&a	2O. O2	- 22: - 36	- ON- 1- 3	- 16N6O7	- 16O- 3-	2U2	ql w
BSmb ARr	N101	- : 63	4O26	446N	4174	6U7N	ql w
Msob Amb	1ONO1	2:	- -	- N	- -	12U7O	ql w
Msob Amb	1O601	- : 63	- 613	- 436	- 6N3	6UN3	ql w
Msob Amb	11101	4N7	4O.	- N4	426	12U2	ql w
MsRqAmb	4- 01	1777O	17NO.	17N77	173- N	1UO7	ql w
MsRqAmb	4401	2N6- : 4	2N3: 46	2N: NOO	2NNO43	OU7:	ql w
MsSenR	1201	27: 14: 2	267766-	26- 2: 2N	26266: 4	1U24	ql w
MsSenR	12O2	- 1113	- O. N-	- O734	- ON: 1	OU2	ql w
MhPSRr	- 701	11O23: 7O	11273: 24	11ONN324	11124N66	1UO3	ql w
MhPSRr	- 7O2	37O3N	3- : - O	3- : 32	34- 23	OUNN	ql w
MhSmb Amb	72O2	2N137	2: 27O	2N362	2N32:	1UN3	ql w
MnesR&	7: O2	1: 7O-	1: NO4	1: 3OO	1: 66:	OU3N	ql w
MnI I r S	6- O2	72673	7161-	7247-	72241	1UO6	ql w
t ywl SnwAmb	1760 1	- 3: 2	4113	4263	4O7:	7U N	ql w
t ywl SnwAmb	1760 2	1N3-	16N3	1N3O	1N1O	7U O	ql w
FSeAmb	1640 1	4271	- 326	42O.	4O62	3U1:	ql w
FSeAmb	1640 2	1N23	17: -	1623	16N2	3U7O	ql w
GsonPARAmb	16O01	- 3N4	4O- 4	- 6N4	- N- 4	4U3O	ql w
GsonPARAmb	16O02	2O24	2O33	22- 4	2111	7U13	ql w
KnPb Amb	1670 1	: 47N: N7	: 44634O	: 6: : 177	: 7- 4: 6O	1U4:	ql w
KnPb Amb	1670 2	421O4- 3	4O44NO2	41O677-	412O7: 3	2UO-	ql w
DRoAmb	1170 1	6: 3N777	6: 6- 2- O	6: 74721	6: 674- 7	OU13	ql w
DRoAmb	1170 2	: 613ON	: 47- 47	: 4O74N	: 4: 2OO	1U13	ql w
DSmR	74O2	NN4476	N: : O4N	NN7761	NN: 6NN	OU1	ql w
DSmR	76O2	13263O4:	1371713-	13O626N1	132N16- 4	1U1	ql w
DSmR	73O2	4O4364	4O. 611	4ONN34	4O337O	OU64	ql w
gSyl &aR	N- 01	2N2	233	2N3	2N2	1U33	ql w
Lr so	2O601	11- N-	1O7- 2	11O44	1O. N6	- U O	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Smb Rr &usb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i A r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP usb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O301	: ON1	N63O	NN3O	NN34	2U2	ql w
Lr so	2ON01	4- 4: O	41NOO	4- O: 6	423: 7	2U03	ql w
LA&nAmb	601	27767N2	272ON: O	273O163	274: 21-	1U0O	ql w
HskRr wAmb	24O2	76- 2O6	76O- - :	76123:	7616ON	OU26	ql w
HsRksRr w	77O2	211O76	2126- 7	212: 7:	212213	OU4N	ql w
HnPyeor Rmb	: 401	2- 7:	2- : 2	2- 42	2- 64	1U0N	ql w
HnPyeor Rmb	: 701	: 42	NON	N7N	N6:	3U37	ql w
HnPyeor Rmb	: 601	11N-	12ON	11: 2	11: 7	1U03	ql w
HnPyeor Rmb	: 301	437	463	47N	463	1U3:	ql w
HnPyeor Rmb	: N01	11N-	1413	1- 13	1- O6	NUJ 3	ql w
ur noyb Amb	17O01	72N1	7- 21	7- 14	7- O6	OU4O	ql w
ur noyb Amb	17O02	137O	164-	131-	13O2	- U1N	ql w
u Aqvr P	6O02	24O: 3	2- : : O	24ON3	24O7N	OU27	ql w
8hnwl hnSmw	- 102	437	713	7OO	4: 3	4U22	ql w
8n&swwAmb	- : 02	2N2- 3	2N- 2N	23N11	2N127	OUJ N	ql w
EhnoAmb	1O- 01	3O1: N- 2	6N: 6131	3O2: : 4N	6: N1: N4	1U03	ql w
EhnoAmb	1O- 02	- 2: 4347	- 164742	- 161213	- 2O6N- 7	2U3	ql w
pqsRoAmb	4701	477O434	46N- 72-	46: 3: 71	464- : N-	1U37	ql w
pqsRoAmb	4702	14- : 3-	144O67	142274	14- 4- 1	OU31	ql w
pr P RAmb	N201	046	04	024	027	0N6U4:	ql w
pr P RAmb	3302	1O	1O	O	3	N6U6O	ql w
pr P RAmb	3N02	2O	2-	16	2O	13UN6	ql w
pAAqnR	2N01	4177243	41O1312	414- 1- 4	41- - - 67	OU6N	ql w
pAPr S	1O301	227	263	- ON	263	17U6-	ql w
pAPr S	1O: 01	2- -	2ON	2ON	213	6U66	ql w
pnoAmb	2- 02	- O7: :	2: 232	2N3N3	2: 77-	- U13	ql w
pSSnR&Amb	N601	13N3O	1311:	16372	13243	- UJ O	ql w
pSSnR&Amb	NN01	14- 661	14O66-	146- 61	14- 762	1UJ :	ql w
pmPVnS	- 401	2431- 1	242N6O	242N23	24423-	1U01	ql w
i r SeAmb	17: 01	: : 34162	: : O2NN-	: NO436:	: N: - : - N	OUN6	ql w
i r SeAmb	17: 02	41O7472	4O47O1-	4O2N44-	4O7: 6- 6	1U0O	ql w
i hsPAmb	2O- 01	- 63	- N-	4ON	- N6	7U4-	ql w
i hsPAmb	2O701	NOO	1O42	: N-	: 42	1- UJ :	ql w
i AR	11N01	1442	12- -	14- -	1- 3O	NU61	ql w
i A&sRAmb	4301	11: 4- N	121OO2	127274	121N: N	2U43	ql w
CSsRAmb	2- N01	6- 4-	64O2	7: 23	6224	4U16	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 4- - 0O4LX7	DRw&Sm b Rr &u sb r J	8 N
MFA R&psb I P D J	Ha9c : 2L	t ARn&AR. sq&aSJ	7
t s& T i Ao r cqdmAS o J	2O2- 0O3012 1: J1- J13	t s&s. AP u sb r J	12: cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
9sRsoAmb	71O2	23O42	267- N	266NN	26376	OU3	ql w
Y&&SeAmb	13201	1263	1137	1237	12- :	4U4N	ql w
Y&&SeAmb	13202	7- -	7N:	3O6	6O:	14U4-	ql w
Y&&SeAmb	13601	1N37	1: 7O	1: N4	1: - 6	2UN3	ql w
Y&&SeAmb	13602	116- :	11432	11N- :	1167O	1U7N	ql w
Y&&SAmb	N: 01	126: 7122	1234617N	1- O46323	12N2: - - 6	1U4N	ql w
Y&&SAmb	N: 02	12: - 4N4	1- 2OO71	12614- 4	12: 1676	2U23	ql w
ZARq	66O2	6N12	64N7	646N	67NN	2U4	ql w
ZASqnRAmb	: O01	4: 71	7- 6N	7- 26	7217	4U4O	ql w
ZASqnRAmb	: 101	11- -	11- -	1O37	1114	- UO2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2l	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdPP usb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	21Nh: - S	21h1016	22S620N	21N1- SN	1M26	dDw
qCTb nCE	12171	11- S: 1	11- NN2	11- : N2	11- 6h2	SM4-	dDw
qpwr Ccl	0h72	0- 06	0242	0102	026-	1M4-	dDw
Bspcmb	1- h71	04N: 04	0h121-	064206	0h4N21	1M8:	dDw
Bspcmb	1- 071	1- 24hNS	1- 466: -	1- hh66h	1- 42- 1-	1M1:	dDw
Br pEPPmb	: 71	16h6N	166- h	16h: 0	166SS	SM2S	dDw
Bcwb mTG	2S: 71	60h: : - 4	0SN201-	6: h6- - 0	6: - 2: : h	2Mh	dDw
Bcwb mTG	2S: 72	- 20Sh1-	- S: 1NN:	- 10241S	- 10N201	2MM1	dDw
Bpmb cCr	N171	46- 4	401N	4N1N	402-	1M4	dDw
5 sob cmb	1SN71	: 21	: 0:	11SN	1SS-	: M10	dDw
5 sob cmb	1S671	hSh1	h606	h1N4	h- S4	6M21	dDw
5 sob cmb	11171	142- 1	14S1:	14h- S	1426S	1MMS	dDw
5 sPlcmb	4- 71	06N4N	0N41-	001- 2	0046h	1M8N	dDw
5 sPlcmb	4471	1- 6- 4SS	1- h: NN2	1- NS2N4	1- 60Nhh	SMMS	dDw
5 spenC	1271	2h4h- N0	2h62- hh	2hN44h6	2h64S66	SM06	dDw
5 spenC	1272	- 1S: 2	- S: SS	- S0- -	- S: SN	SM1N	dDw
5 GPmpcCr	- h71	2160h: : 1	201SShhh	- S22- 64S	26- - - - : h	16M12	dDw
5 GPmpcCr	- h72	2- 2hh2	2- 6N41	244hSS	2- 0: 64	2M14	dDw
5 Gpmb cmb	h272	2: 4: 6S	2: hNh-	2: 410h	2: 4: : 6	SM2N	dDw
5 nesPT	h: 72	4226- 1	421206	414: 22	41: 61S	SMMN	dDw
5 nDDr p	6- 72	- 6- - 1S	- hNh: 2	- h44S0	- hN00S	1M24	dDw
&EwDpnwcmb	1h671	1: h0-	1: S- 1	2SSh0	1: hh4	2M0-	dDw
&EwDpnwcmb	1h672	N6NS	Nh6-	N6S-	N61h	SM0:	dDw
Fpecmb	16471	1: 0h0	1: : h0	1: 164	1: 626	2M1S	dDw
Fpecmb	16472	0: 2:	0NS2	0N16	0N4:	SMM:	dDw
HsonPCcmb	16S71	1: 6: N	2S02h	2S441	2S2NN	2M61	dDw
HsonPCcmb	16S72	: hS0	: 62S	: - - -	: 4N0	1M12	dDw
KnPb cmb	16h71	: N44140	1S61Sh46	1SS6N: : 0	1S104h6-	- MM0	dDw
KnPb cmb	16h72	420S2- S	- : 66: 6-	4S: 10S2	41S: 6- 1	- M01	dDw
tCocmb	11h71	0124- 10	06144N0	02N: 60S	0- 42N24	- M4S	dDw
tCocmb	11h72	: 04- : 1	: 1SS66	: 2- - h1	: - h: - 6	- M0-	dDw
tpnC	h472	h1212- 0	4: 42112	4: 1- 1N6	4: : 210N	2M26	dDw
tpnC	h672	N: : - 2S16	: S- Nh2: 6	NN- 1621-	N: h44hSN	1M21	dDw
tpnC	h072	2- 4S: h4	2- 1Shh0	2- - 40: -	2- 2N06N	SM0:	dDw
gpEDTnC	N- 71	- S2	- S0	20h	2: h	hM-	dDw
Lr so	2S671	6041:	6: hh-	600h4	6N242	1M0N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2l	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdPP usb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	h6S4:	h0612	h0- 1S	h6: : S	1M4h	dDw
Lr so	2SN71	264N6S	260N44	26hh42	266SN2	SM1:	dDw
LdTGmb	671	26- SS44	20: : 4- 2	202: 01h	201: 0- S	- M1-	dDw
9 sk Or wcmb	2472	2: SS20-	2NhS: 46	2NhSShh	2N60S: 1	1N3S	dDw
9 sCksOr wr	hh72	11Sh: 0-	1S: 2- 6S	1SN- : S1	1S: 4S0N	1N32	dDw
9 nPEeor Cmb	: 471	12- 4N	1- 14S	12h0-	126N0	- M22	dDw
9 nPEeor Cmb	: h71	h- 1N	6S26	hhS1	h61h	6M1h	dDw
9 nPEeor Cmb	: 671	0661	N20N	06S2	0N40	4M00	dDw
9 nPEeor Cmb	: 071	- : 26	- 042	- 610	- 062	4M12	dDw
9 nPEeor Cmb	: N71	: SN0	: h4h	N00N	: 1- 0	4M4-	dDw
u r noEb cmb	1hS71	2hN4h	24: 24	26S: :	2h62-	2M41	dDw
u r noEb cmb	1hS72	0N4:	066:	NS16	0N4h	2M21	dDw
u cdvr P	6S72	2S1h: 1	2S- NSh	1: : 14:	2S1h1h	1M16	dDw
8 GhwDGhpmw	- 172	21S:	1: 42	2S: 2	2S40	4M4N	dDw
8 nTswwcmb	- : 72	: 6666	: 2: hN	: 4N2S	: 4N14	1M16	dDw
. Ghocmb	1S- 71	6: S1614	06: 0: hN	01262S6	0241: 26	hM00	dDw
. Ghocmb	1S- 72	- 2hShh1	- 12141h	- 10S616	- 1NSN61	2M3h	dDw
l ds Cocmb	4h71	4N2N: 6h	h2S: h02	4: 642NN	hSSS: 42	- MN6	dDw
l ds Cocmb	4h72	14: 6: 1	141262	14- 6: -	144NN2	2M1:	dDw
l r PP Cmb	N271	2S06	2144	22N1	2160	4MN2	dDw
l r PP Cmb	0072	1S0	11S	: -	1S-	NM14	dDw
l r PP Cmb	0N72	244	24N	212	2- h	NM41	dDw
l dPdnC	2N71	1: 2hh41N	1: S6- 060	1N: NS1N4	1: S: : 0N:	SM04	dDw
l dPr p	1S071	6261S	6- N6h	6- N04	6- 4hS	1M1h	dDw
l dPr p	1S: 71	h: 41-	61hN:	61S0N	6S6: -	1MN0	dDw
l nocmb	2- 72	6h2S4	64141	64N4h	640- S	SMN4	dDw
l TpnCTcmb	N671	0: S0-	NS2NS	0: 2N4	0: h46	SMN1	dDw
l TpnCTcmb	NN71	6NSS- 1	60011S	60- 2- 2	6060: 1	SM1S	dDw
l mPVmp	- 471	2- h6S0	2- 6N0N	2- hh- 4	2- 6SS6	SM12	dDw
Ar pecmb	1h: 71	1SS- S- 0-	1SNN- 6- -	1S2N- 2- S	1S- : : S0N	4M21	dDw
Ar pecmb	1h: 72	41N446N	- : SNN6S	4S2- 010	4S- : S1h	- M4-	dDw
AGsPPcmb	2S- 71	hN6- -	h: 2: 4	h: 66-	h: 1: 6	SMMN	dDw
AGsPPcmb	2Sh71	14S642	142N14	1461- h	14- 1: 0	1M1-	dDw
AdC	11N71	2N42	20SS	- SSS	2N4N	hM20	dDw
AdS Cmb	4071	6162- h	62h616	61: 0- 4	62Sh2N	SM06	dDw
RpsCmb	2- N71	- S40:	- S66-	- S001	- S6- N	SM4N	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S6	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : 2l	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J16J1:	&sTsUdP u sb r J	1- Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	20S- N6	2604N6	26N2N4	26N01:	SM16	dDw
YTTr pe omb	10271	h06S	h6h1	hhS1	h6- 0	2M1S	dDw
YTTr pe omb	10272	20hS	20N:	2: S6	2N1h	2MMN	dDw
YTTr pe omb	10671	4: 4-	hSN4	46h1	4N: -	4M12	dDw
YTTr pe omb	10672	1- 4S0	12: 0-	1- S4S	1- 14S	1M0N	dDw
YTTpomb	N: 71	1- 2044N6	141: - : - :	1- 461- S0	1- 64- 244	- M16	dDw
YTTpomb	N: 72	1- 14066	12- h4N6	12hh60S	126N641	- M2h	dDw
ZdCd	6672	62420	61- 02	6S: - 0	61h0:	1M24	dDw
ZqpdnComb	: S71	2hN4-	24- hh	2464N	24: 4:	- M16	dDw
ZqpdnComb	: 171	h4S1	hhh1	h: Nh	h646	hM10	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	2271- 4	2260u-	226474	226124	SRJ	CI I
d. iqe C. E	121 1	4406	4471	71- 4	46u0	uR20	CI I
dIl p. qO	07 2	122u	1214	12S6	1216	SR12	CI I
Bwldpe	1- 7 1	2SJ22J	2S0404	2S0116	2S0J4S	SR74	CI I
Bwldpe	1- 0 1	- 6J40S	- 60- 24	- 6u- u2	- 6u- J2	SR2J	CI I
BplE8dpe	J 1	2177	2277	21J0	22S2	2R2u	CI I
Bdqe biG	2SJ 1	7JSu7- 1	0SJJ22u	6J2- 006	664- u47	JR6u	CI I
Bdqe biG	2SJ 2	- 2460S2	- 470406	- 1u200u	- 2J7672	4R 6	CI I
BlCe q p	u1 1	7SS1	4JS1	476u	4u2-	4R01	CI I
9 wne dpe	1Su 1	J6	uu	7u	u1	24R47	CI I
9 wne dpe	1S6 1	- 6S1	41- 4	- J60	- JS1	0RSS	CI I
9 wne dpe	111 1	uuJ	u- 6	u4-	u76	- R 6	CI I
9 w8Cdpe	4- 1	41u070	41JJ01	414SJ1	4106S6	SR04	CI I
9 w8Cdpe	44 1	6Ju1- 6u	0- S7- 12	0SJ67Ju	012006S	2R S	CI I
9 wlr C.	12 1	- 1J14- 7	- 1u062J	- 1u74u1	- 1uu1u2	SRSJ	CI I
9 wlr C.	12 2	- 04u2	- u- J2	- u6u7	- u1u6	1R64	CI I
9 G8Clq p	- 7 1	2- - 61uS1	2010112J	2u64S626	26- J11u7	1SR 2	CI I
9 G8Clq p	- 7 2	21S120	22SJSS	222201	210066	- RS7	CI I
9 GlCe dpe	72 2	24JS7	2710J	24J- 2	27SS7	SR6S	CI I
9 Cr w8	7J 2	121S2	122u7	11Ju2	1212-	1R26	CI I
9 Ct t pl	6- 2	42- J-	421J-	4221J	4226u	SR26	CI I
TEl t ICl dpe	176 1	6- - 42	6- 07-	642- S	6- 007	SR0S	CI I
TEl t ICl dpe	176 2	27- J1	27444	270u2	277- J	SRu-	CI I
Ulr dpe	164 1	4- 764	421S1	42061	42uSJ	1R01	CI I
Ulr dpe	164 2	10124	16000	10- 6u	10SJS	1R04	CI I
HwnC8q dpe	16S 1	72J14	7SJS6	7S7S7	71442	2R71	CI I
HwnC8q dpe	16S 2	2- 66u	24J2-	24026	244- J	2R06	CI I
h C8e dpe	167 1	u60464-	J04- 210	1SS- 67u-	J4u4u14	0R76	CI I
h C8e dpe	167 2	41J0uJ7	47- J7SJ	41671Su	4- SSu- 0	4Ru2	CI I
& ndpe	117 1	6114077	0SS07- 0	02S40u2	60076J1	uR70	CI I
& ndpe	117 2	J67J77	1S- 41J4	J74701	Ju4JS0	4R 0	CI I
&C.	74 2	1117020	112614u	11126S7	111u16S	SR6-	CI I
&C.	76 2	214- u060	21Juu400	2106u62u	210- 1J70	1R20	CI I
&C.	70 2	7S72S7	717- 4-	721662	714S0S	1R61	CI I
KIEt iC.	u- 1	- 16	- 11	- 16	- 17	SR12	CI I
Lpwn	2S6 1	162Ju7	16- 77J	162- - -	162J7J	SRu	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S0 1	1- 4Su2	1- S4SS	1- S- 1S	1- 17J0	1R64	Ol l
Lpwn	2Su 1	6- 42u4	6- - 0S1	6- 2S44	6- - - 4-	SR1u	Ol l
LqiGdpe	6 1	2- S4600	27647- -	26- 002-	27S2- 11	6R3J	Ol l
y wg. pl dpe	24 2	uu1JSS	uJ- 24-	u6J1J-	uu1447	1R 6	Ol l
y w. gw. pl p	77 2	47207u	476- 76	4720u0	47- J60	SR46	Ol l
y O8Er np. be	J4 1	16S6u	1616S	16u00	16- 6u	2R01	Ol l
y O8Er np. be	J7 1	6SS1	611u	70u7	7J6u	2R14	Ol l
y O8Er np. be	J6 1	u6u6	uuu6	J20u	uJ7S	- R 6	Ol l
y O8Er np. be	J0 1	4S26	- 0SJ	4S71	- J2u	4R17	Ol l
y O8Er np. be	Ju 1	JJ0J	JJJ7	J62S	Ju67	2R17	Ol l
mpOnEe dpe	17S 1	114061	11- 7u4	11S21S	112u72	2R3J	Ol l
mpOnEe dpe	17S 2	- 4224	- 4104	- - J2-	- 41S0	SR40	Ol l
mqOkp8	6S 2	6422	67S7	670u	67S2	1R21	Ol l
NGOl t GOlbl	- 1 2	16SS	17J2	10Su	16- -	- R3J	Ol l
NOiwl dpe	- J 2	101614	10012J	104007	1047S6	1R7J	Ol l
F GOndpe	1S- 1	614JJ42	010- J7J	016040-	6u- S47u	uR6-	Ol l
F GOndpe	1S- 2	- 2712u6	- 717666	- 24S27J	- - - 70- 0	4R60	Ol l
DOw. ndpe	47 1	- JSJ04u	4766uu1	401S- 16	4- J764u	JR01	Ol l
DOw. ndpe	47 2	1470uu	17770S	142774	140J01	4R7u	Ol l
Dp8p. dpe	u2 1	01	J1	111	J1	21R12	Ol l
Dp8p. dpe	00 2	14-	u0	11-	114	24R00	Ol l
Dp8p. dpe	0u 2	1S-	uJ	J6	J6	0R2J	Ol l
Dq8qC.	2u 1	07706uJ	0- J26u1	047u6Ju	046J6JS	1R1	Ol l
Dq8vpl	1S0 1	1SSu	1107	1160	1110	uR41	Ol l
Dq8vpl	1SJ 1	JSS	12- -	1107	11S-	16R14	Ol l
DOndpe	2- 2	7- u7u	77J7u	74uJ6	74JS4	1R31	Ol l
DilC. idpe	u6 1	u22SS	u2JS4	uSJ4-	u2S16	1R21	Ol l
DilC. idpe	uu 1	6Ju772	0S0S2-	0S- 2- 7	0S2J- 0	SR6S	Ol l
Db8bl	- 4 1	206677	2J10u0	2JJJ17	2uJ472	4R8u	Ol l
cplr dpe	17J 1	u00- 4u7	1S11404-	1S244220	J01Su1u	uR J	Ol l
cplr dpe	17J 2	4226u6S	442- 0uS	412706-	427uuS1	- R76	Ol l
cGw8dpe	2S- 1	147u	17- -	17u-	1727	4R1-	Ol l
cGw8dpe	2S7 1	- 1u4	- 471	- 471	- - 62	4R7u	Ol l
cq	11u 1	2644-	26S27	20161	2674-	2R16	Ol l
cqiw. dpe	40 1	- 22424	- 2040J	- 2- 1- -	- 24- 47	SR14	Ol l
5 lw. dpe	2- u 1	4- J- 7	4616u	44211	44001	2R02	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S4	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuS	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja1Ja14	TwiwMt8p:mwe p:a	1- 1d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	2SS64	2S617	2S6J7	2S47u	1R3u	Ol l
Yiiplr dpe	102 1	12u67	1220-	11JJ0	12- 0u	- R7u	Ol l
Yiiplr dpe	102 2	7u71	6SS0	7046	7u6u	2R24	Ol l
Yiiplr dpe	106 1	J4u0	J147	J20S	J- S1	1Ru6	Ol l
Yiiplr dpe	106 2	172- 0	16Suu	17u67	170- S	2Ru1	Ol l
Yiildpe	uJ 1	1161J107	1- 44SJ62	1- u02121	12J0041J	JR21	Ol l
Yiildpe	uJ 2	14211- 2	14J2- 4u	1- 24440	1412642	7R10	Ol l
Zq O	66 2	- 0u04	- 066-	- uS7u	- 0u67	SR72	Ol l
ZdOC. dpe	JS 1	- 42u4	- 40u6	- 7SJ7	- 4022	1R1u	Ol l
ZdOC. dpe	J1 1	04u6	00u6	0JJ4	0077	- R S	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S7	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8biqC. :MwOICI:a	1
Twip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMt8p:mwe p:a	1- 2dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	221J64	222464	21J4u1	221- S-	SR02	Ot I
d. iqe C. E	121 1	42SJ	4006	46S1	472J	6R41	Ot I
dIl p. qO	07 2	1264	1240	12- S	1240	1R 6	Ot I
Bwldpe	1- 7 1	2SS410	2S- JJ1	2S2- - S	2S2246	SRuu	Ot I
Bwldpe	1- 0 1	- 7J7- u	- 64424	- 61160	- 6101S	SR6J	Ot I
BplE8dpe	J 1	2124	2104	2110	21- u	1R44	Ot I
Bdqe biG	2SJ 1	6u7- 474	01S417-	0S- u21S	6JJu6S6	1Ru6	Ot I
Bdqe biG	2SJ 2	- - 447- S	- - 12606	- - - u6- 6	- - - 1J40	SR71	Ot I
BIOe q p	u1 1	4J7J	404-	717J	4J74	4R21	Ot I
9 wne dpe	1Su 1	127	1S4	1- -	121	12R4-	Ot I
9 wne dpe	1S6 1	417J	- Ju4	4126	4SJS	2R20	Ot I
9 wne dpe	111 1	J16	uJ6	u67	uJ2	2Ru0	Ot I
9 w8Odpe	4- 1	41SS- S	416424	41744S	41- J67	SRu-	Ot I
9 w8Odpe	44 1	6uJ7- 7J	01uJ7- 2	6JJ7027	0S26u02	2R1-	Ot I
9 wIr C.	12 1	- 10SJ1-	- 17S2S-	- 167076	- 1622JS	SR 4	Ot I
9 wIr C.	12 2	- 07JJ	- 0J41	- 0J7u	- 0u- -	SR74	Ot I
9 G8Clq p	- 7 1	2- - 2uSS2	26J717- 2	2J226241	267S1J27	11R22	Ot I
9 G8Clq p	- 7 2	21uSS0	210S24	22414u	21J026	1R06	Ot I
9 GIOe dpe	72 2	2712J	2716J	24S60	240uu	2R72	Ot I
9 Or w8	7J 2	1210J	12SJ2	116J7	11Juu	2R17	Ot I
9 Ot t pI	6- 2	41470	4102u	4S661	412u2	1R 4	Ot I
TEI t IOI dpe	176 1	6S- 0S	6164-	61Su2	61S- 2	1RS4	Ot I
TEI t IOI dpe	176 2	27274	24uSS	240- -	24J2J	1R14	Ot I
UIr dpe	164 1	42S06	42- 26	42106	421J-	SR S	Ot I
UIr dpe	164 2	16640	160- 0	160- 0	160S0	SR 1	Ot I
HwnO8q dpe	16S 1	7S- - 0	7S04u	7S740	7S744	SR41	Ot I
HwnO8q dpe	16S 2	2- 067	2- Ju7	2- 7S4	2- 071	1RS1	Ot I
h O8e dpe	167 1	JJ0u4- 1	1S1722SS	1S2SS67u	1S11S4- S	1R16	Ot I
h O8e dpe	167 2	44S4J4-	4- 2740u	4- 4- J7S	4- 7u124	SR37	Ot I
& ndpe	117 1	0- - S- 2u	074JJ- J	0- - 7- u1	04S7216	1R6J	Ot I
& ndpe	117 2	JJ1- u2	Ju- 4JS	J00- u6	Ju4Su6	SR01	Ot I
&C.	74 2	11SJ61-	11S0- 24	11SSu- S	11S7J22	SR41	Ot I
&C.	76 2	2140727S	2171J172	21410S70	2140S4u6	SR24	Ot I
&C.	70 2	7Suu04	7S426S	7S70- 6	7S62JS	SR40	Ot I
KIEt iC.	u- 1	- 62	- 27	- 24	- - 0	6R7-	Ot I
Lpwn	2S6 1	1701J2	17Ju4u	176J12	170Ju4	1RS-	Ot I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S7	&I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMuST	T8piqC. :MwCICI:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMt8p:mwe p:a	1- 2dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	126702	12J1J7	12u6u-	12u17S	1R8J	CI I
Lpwn	2Su 1	61- J6S	6222uS	61uS76	61uSJJ	SR60	CI I
LqiGdpe	6 1	27u4461	27J2717	26J62J0	2624424	2R u	CI I
y wg. pl dpe	24 2	uuSu62	u6JS14	u7662J	u6uu- 7	1R J	CI I
y w. gw. pl p	77 2	47- 60S	472SJJ	47274u	472002	SR1u	CI I
y C8Er np. be	J4 1	16120	1641u	167J4	16- uS	1R44	CI I
y C8Er np. be	J7 1	7J6S	6- 00	70u7	6S4S	7R8-	CI I
y C8Er np. be	J6 1	u444	JS0S	u00S	u061	- R70	CI I
y C8Er np. be	J0 1	- 060	- 006	- 771	- 6Ju	- R47	CI I
y C8Er np. be	Ju 1	Ju2S	JJ- 0	J674	JuS4	1R47	CI I
mpOnEe dpe	17S 1	111J70	111J6-	11S106	111- 66	SR12	CI I
mpOnEe dpe	17S 2	- - 70J	- 4204	- - - 2u	- - 020	1R47	CI I
mqCkp8	6S 2	67S7	676u	621u	64- S	2R1S	CI I
NGCI t GCIbI	- 1 2	16- -	16- -	1727	17J0	- R12	CI I
NCiwI I dpe	- J 2	107S4S	101uJ2	16JuSS	102244	1R7-	CI I
F GCndpe	1S- 1	0S6- JS7	04666JS	0- - Ju11	02JS1- 7	2R12	CI I
F GCndpe	1S- 2	- 4S1S07	- - u70Su	- 202S20	- - 72J- 0	2R1S	CI I
DOw. ndpe	47 1	4011S0-	4u62J01	4u0- - 70	4u17uSS	1R1J	CI I
DOw. ndpe	47 2	17S7SS	14JuS2	146u46	14JS4J	1R S	CI I
Dp8p. dpe	u2 1	- -	44	74	4-	24R7-	CI I
Dp8p. dpe	00 2	14-	1SS	110	12S	1uR22	CI I
Dp8p. dpe	0u 2	u2	66	u4	00	12R06	CI I
Dq8qC.	2u 1	01JJ4S1	047002S	04- 2064	0- 6- 2J7	1R14	CI I
Dq8vpI	1S0 1	1127	1SSS	1110	1Su1	6R40	CI I
Dq8vpI	1SJ 1	11SS	u42	J7u	J60	1- R u	CI I
DOndpe	2- 2	7- 102	720- 0	7- Su1	72JJ0	SR4-	CI I
DiIC. idpe	u6 1	u1120	0u42S	0JS4J	0J7- 2	1R0u	CI I
DiIC. idpe	uu 1	6u12- J	6J041u	60064S	6u74- -	1R74	CI I
Db8bI	- 4 1	2J6207	2JJ10u	- S12J-	2JuJ17	SR14	CI I
cpIr dpe	17J 1	1S1604SS	1S4611u2	1S471J- 7	1S- 6S102	1R61	CI I
cpIr dpe	17J 2	42- 1221	4246112	42S4u72	4220- J7	SR4J	CI I
cGw8pe	2S- 1	1410	1- Su	14Su	1- 0u	4R u	CI I
cGw8pe	2S7 1	- 6u4	- 1u4	- 426	- 4- 1	0R2J	CI I
cq	11u 1	27J42	24064	27167	272J1	2R 0	CI I
cqiw. dpe	40 1	- 1u- 1J	- 2004u	- 1J- 0S	- 21u12	1R61	CI I
5 Iw. dpe	2- u 1	4- 010	44746	44SJ4	4411J	SR14	CI I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

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Lwr :Dwe t 8p:&T :a	3 - 47S S7	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T :a	y h SMuST	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja22a1-	TwiwMt8p:mwe p:a	1- 2d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
Vw. wndpe	71 2	2S772	1Ju1S	2S4S7	2S276	1R14	Ol l
Yiiplr dpe	102 1	1224u	11u- 1	124uJ	121uJ	2R0-	Ol l
Yiiplr dpe	102 2	7J1-	7J1u	764S	7u24	2R0-	Ol l
Yiiplr dpe	106 1	J247	uu0u	u611	uJ12	- R70	Ol l
Yiiplr dpe	106 2	17SSJ	1720S	17u17	17- 67	2R3u	Ol l
Yiildpe	uJ 1	1- 40- 412	14144u47	14S6- 44J	1- uJ- JS2	2R34	Ol l
Yiildpe	uJ 2	14u671S	146u41J	1- 6- 24u	14- J- J2	4R32	Ol l
Zq O	66 2	- 060-	- 011J	- 6uJ1	- 022u	1R3u	Ol l
ZdOC. dpe	JS 1	- - 24S	- 4u11	- 20uJ	- - 61-	- R16	Ol l
ZdOC. dpe	J1 1	uS61	uS61	0u00	uSSS	1R 2	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9O. NOL	t ARn&nR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Uo

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23X2	4- : - 4	4442-	44ON1	44146	OU03	ql w
cR&b nRy	121X1	: 0O	: 0O	1O- -	: 3N	4U2	ql w
cSvr RAq	30X2	241	203	2- O	24-	0U0:	ql w
BsSAmb	1- 0X1	41- N1	- : 4ON	- : 063	4O11:	2U3-	ql w
BsSAmb	1- 3X1	6363N	3O120	3O66N	6: 4: O	2U2:	ql w
Br SyPAmb	: X1	4: 4	44O	4N1	432	0U6	ql w
BAb m&a	2O. X1	6: 41444	6: : - - 16	63NNO. 3	6: O361:	1U04	ql w
BAb m&a	2O. X2	- 230O63	2NN2: O.	- 2- O. 32	- 12: 64:	6UN6	ql w
BSmb ARr	N1X1	4026	4236	4401	4413	2U1	ql w
Msob Amb	1ONX1	04	- N	21	- N	44U40	ql w
Msob Amb	1O6X1	41O1	- : - 4	4OO.	4O10	2UON	ql w
Msob Amb	111X1	46N	430	04O	4: 0	NUO6	ql w
MsRqAmb	4- X1	3: : 32	N1ON0	N10N2	NONNO	1UO2	ql w
MsRqAmb	44X1	141: 2- 2	1422N4:	141- - - :	141N43-	OU4	ql w
MsSenR	12X1	26- N6: 0	2622210	266O. 26	264O612	OU34	ql w
MsSenR	12X2	- O4: 1	- 1263	- 1O42	- O. - -	1U2:	ql w
MhPnSRr	- 0X1	1122O4: 6	11- 1: 0N4	11- - 1NON	112: O62:	OU04	ql w
MhPnSRr	- 0X2	34- : :	31340	3O4NO	322ON	2U33	ql w
MhSmb Amb	02X2	0330	0: 0N	0N: N	0N33	1U0:	ql w
MnesR&	0: X2	264O	2434	2264	240:	3U6N	ql w
MnI I r S	6- X2	: O0-	: 23O	N3- :	: O21	2U6	ql w
t ywl SnwAmb	106X1	11614	12O06	1223-	11: N1	2UNO	ql w
t ywl SnwAmb	106X2	4: : 4	4: - 1	0O- 1	4: N0	1UO2	ql w
FSeAmb	164X1	NOO-	3: - 6	3: : 4	3: 3N	OU46	ql w
FSeAmb	164X2	- - : O	- 203	- 413	- - 00	2U06	ql w
GsonPARAmb	16OX1	1OOO4	: N2:	: 0- 3	: 3: O	2U41	ql w
GsonPARAmb	16OX2	43- N	4: : N	4324	4N2O	- U2O	ql w
9nPb Amb	160X1	: 66124-	: : 32301	: : 1- 60N	: N4: 213	1U6N	ql w
9nPb Amb	160X2	424336N	- 3O3- O3	41N6- 6N	4O4314N	3U1	ql w
DRoAmb	110X1	311646:	3262- : 0	3- : - 21N	3203- 61	1U1	ql w
DRoAmb	110X2	: 6: 040	N431: 4	: 03: 4O	: 24N: -	3U O	ql w
DSmR	04X2	21N142	221N- N	22O- : 0	22O120	OUN0	ql w
DSmR	06X2	4- 410N2	4- 4104:	4233: O1	4- 2O- 44	OUN0	ql w
DSmR	03X2	1O1- - 1	1O2410	1O12O1	1O164:	OU66	ql w
KSyl &aR	N- X1	2: 2	261	23O	230	0UN3	ql w
Lr so	2O6X1	- 1632	- 23ON	- 12: :	- 1N: -	2U2:	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRw&Smb Rr &usb r J	8N
MFA R&psb I P D J	H9 O. NOL	t ARn&AR. sq&aSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O3X1	20: 26	20: : -	2020N	20326	1U0N	ql w
Lr so	2ONX1	12- ONO	126221	122112	12- NO4	1U34	ql w
LA&nAnb	6X1	2026242	200N- 63	20O4- 3-	202: 661	1UO3	ql w
HsgRr wAnb	24X2	16: 306	130O40	134O60	132: 00	1U6-	ql w
HsRgsRr w r	00X2	N: 1- :	N: O. -	NN303	NN: : 6	OU2-	ql w
HnPyeor Rmb	: 4X1	2N: 2	- 263	- 2- 4	- 1- 1	6U6-	ql w
HnPyeor Rmb	: 0X1	14N-	1O42	1242	1206	13U62	ql w
HnPyeor Rmb	: 6X1	1642	1320	100N	1642	0UON	ql w
HnPyeor Rmb	: 3X1	N20	363	630	306	1OUO1	ql w
HnPyeor Rmb	: NX1	2120	1613	1342	1N2N	14U4:	ql w
u r noyb Anb	10OX1	21244	21O03	21- 64	21222	OU3-	ql w
u r noyb Anb	10OX2	663N	66NN	6622	666-	OU04	ql w
u Aqkr P	6OX2	1- N-	1- 1O	1203	1- 13	4UN-	ql w
8 hnwl hnSnw	- 1X2	420	40O	4OO	420	0UNN	ql w
8 n&swwAnb	- : X2	423N:	41- 1N	4- 24O	4244:	2U3	ql w
EhnoAnb	1O- X1	3O. 6- 03	32: N2NN	3- N33- 0	326O3: -	2UO6	ql w
EhnoAnb	1O- X2	- - 0133O	2N44N0-	- 213041	- 1- NOO0	NU3	ql w
pqsRoAnb	40X1	43O6O4:	431O360	464111O	46N0: 30	OUN-	ql w
pqsRoAnb	40X2	143332	123616	144O2:	1- : NO6	3U63	ql w
pr P RAnb	N2X1	O	24	2O	10	N3U00	ql w
pr P RAnb	33X2	13	2-	1-	1N	2NU64	ql w
pr P RAnb	3NX2	23	- 4	2:	- O	12UO2	ql w
pAAqnR	2NX1	1623N6:	161NN: 1	103O. O.	16O0N: O	1U1	ql w
pAr S	1O3X1	- 0O	- 63	- 0N	- 0N	2U-	ql w
pAr S	1O. X1	2: 2	2: 2	263	2N-	0UO	ql w
pnoAnb	2- X2	2436-	20ON:	24N1-	24NNN	OU3O	ql w
pSnR&Anb	N6X1	106O.	10642	10626	10626	OU11	ql w
pSnR&Anb	NNX1	1- 6- N:	1- 0240	1- 403:	1- 04O4	OU6N	ql w
pmPmS	- 4X1	- OO3: 2	- O1- N6	2: : - 21	- OO4: :	OU0	ql w
i r SeAnb	10: X1	: : OO- : :	1O2120- 2	: : : 32N1	1OO- 63- 3	1U0:	ql w
i r SeAnb	10: X2	41N44- 2	- 62- O10	4O0: 0O2	- : 0060O	3U40	ql w
i hsPAnb	2O- X1	4OO	0- -	430	46:	14U24	ql w
i hsPAnb	2O0X1	1O0O	1ON-	: 63	1O- -	0UN2	ql w
i AR	11NX1	02N0	006O	6O1N	0621	6U0:	ql w
i AsRAnb	43X1	62061	6- 4- -	62O1O	6266N	1U14	ql w
CSsRAnb	2- NX1	N43O	N011	N- N6	N406	OU30	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse psb I P D J	5 - 40OXO4L70	DRwSmb Rr &usb r J	8N
MFA R&psb I P D J	H9O. NOL	t ARnSAR. sqaSJ	0
t s& T i Ao r cqdmAS o J	2O2- XO3X12 1: J20J11	t s&s. AP usb r J	1- - cEF. Uo

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
VsRsoAmb	01X2	4161	4O64	- : 41	4O00	2U32	ql w
Y&&SeAmb	132X1	2442	23O.	2613	20N:	0U2-	ql w
Y&&SeAmb	132X2	11: 0	1163	122N	11: 6	2U06	ql w
Y&&SeAmb	136X1	2N30	- O0:	23- 4	2NN:	0U64	ql w
Y&&SeAmb	136X2	126: 0	11166	11316	11N0:	6U0-	ql w
Y&&SAmb	N: X1	1- ONONO6	1- 4O6230	1- 262- NO	1- 24: N2O	1U2-	ql w
Y&&SAmb	N: X2	1- O01: 6	1143O60	12NO2: 2	12441N4	6UN-	ql w
ZARq	66X2	3042	344:	3- 42	3444	1U4	ql w
ZASqnRAmb	: OX1	6N44	32- 0	3233	311:	- U6	ql w
ZASqnRAmb	: 1X1	1- 30	100O	140N	1461	0U:	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t N:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t N:&T:a	y h SMsSD	T dbiqC. :M CICI:a	1
TI ip:A:cqe p:dCobdpn:a	2S2- S0 12:1Ja2sa11	TI il MdN:mI e p:a	1- 4dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q dpe	20 2	22Ss- S	221JSs	221JS4	221740	SR2s	CI P
d. iqe C. E	121 1	1146sS	117- 0s	11J- - 6	116464	2R16	CI P
dIPp. qO	07 2	2- 66	2- - 2	2- 2S	2- 4S	1RS2	CI P
BI dpe	1- 7 1	0SS41J	0S2- S4	0- 20- J	011s21	2R77	CI P
BI dpe	1- 0 1	126S6J-	1241J74	12J7s22	1266176	2R16	CI P
BpIENdpe	J 1	10J1S	1070-	1s1- -	10s02	1R7s	CI P
BqPe biG	2SJ 1	6s14- 46	070J7- 0	70627- -	601ssS7	1- R7s	CI P
BqPe biG	2SJ 2	- - 7J107	- - - 6024	- 2S1J70	- 2JJ2s7	2R7s	CI P
BICe q p	s1 1	71SJ	7S71	7S06	7S0J	SR7s	CI P
9 I ne dpe	1Ss 1	1S1-	11Ss	1127	1Ss2	7R61	CI P
9 I ne dpe	1S6 1	741S	7J1s	40S1	7- 4-	11R44	CI P
9 I ne dpe	111 1	14s16	1402s	174s-	17SSJ	2R07	CI P
9 I NDdpe	4- 1	4S6107	- J06s2	414JJJ	4S62s7	2R1-	CI P
9 I NDdpe	44 1	6JsSs1J	67J- - S2	0SS2ssJ	6s7JSS-	- R6	CI P
9 I Ir C.	12 1	2000JJ4	2s0ss11	2ss- - 10	2s460S0	2RSJ	CI P
9 I Ir C.	12 2	- 4S70	- 4766	- - 064	- 412J	1R1J	CI P
9 GNCIq p	- 7 1	2S7- 4- 72	272SJ070	2s076710	24s- - 742	16R61	CI P
9 GNCIq p	- 7 2	222- 2J	2277S2	2- - sS6	220212	2R61	CI P
9 GICe dpe	72 2	J2- 46	J1J60	J- 22s	J2714	SR0S	CI P
9 CrI N	7J 2	- - 72s4	- - 6Sss	- - - J7s	- - 711S	SR 2	CI P
9 Ct pI	6- 2	1746S2	17- 61-	174J26	174- sS	SR44	CI P
TEPtICPdpe	176 1	700- 4	7660J	7J2S0	70s0-	2R1J	CI P
TEPtICPdpe	176 2	2- - J0	2- S7-	22J46	2- 1- 2	1RS2	CI P
UIr dpe	164 1	4SS7-	- 001-	- JJ0s	- J24s	- R J	CI P
UIr dpe	164 2	176s-	1742J	17sS6	176- J	1R2-	CI P
HI nCNqdpe	16S 1	401J-	47J02	7S2- 0	40sS1	4R6S	CI P
HI nCNqdpe	16S 2	22- 6J	21Js2	2100s	22S4-	1R 6	CI P
h CNe dpe	167 1	J6S2- - 1	1SJJ6666	s200164	J627- s0	14R1-	CI P
h CNe dpe	167 2	4- - 4S60	4227474	41- 6400	42- 1JJJ	2R 4	CI P
& ndpe	117 1	0SJJ04S	0s- - J02	7JSJ671	6J400ss	1- R1s	CI P
& ndpe	117 2	Jss1- S	JJ1607	J- J40S	J0- SJ2	- RSS	CI P
&C.	74 2	1SS7J07	JJJsJ0	JJsSs7	1SS1- 1J	SR41	CI P
&C.	76 2	1J7J1762	1J46- - 6-	1J- s4- 62	1J40J062	SR74	CI P
&C.	70 2	46- SJ0	47s- - 7	47J- s2	46S201	SR74	CI P
KIEtiC.	s- 1	2s2	- 42	- 4J	- 27	11R20	CI P
LpI n	2S6 1	100SSJ	100717	1s4s42	10J0sJ	2R44	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t Np:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t Np:&T:a	y h SMsSD	TdNiqC. :M CICI:a	1
TI ip:A:cqe p:dCobdqpn:a	2S2- S0 12:1Ja2sa11	TI il MdNp:mI e p:a	1- 4dF UMRn

ul II e pipI	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pI .	9 u DF DT	5 . qP
LpI n	2S0 1	147- 1J	14721s	14JJ0S	146s- 6	1Rs7	CI P
LpI n	2Ss 1	6J- 1S6	6s6417	014sS1	6Js1S0	2R1-	CI P
LqGdpe	6 1	274S472	20720- 1	21J6S44	24J64SJ	11R27	CI P
y I g. pPdpe	24 2	s6S2SS	s7s- 67	s4J041	s761S2	SR67	CI P
y I . gI . pPp	77 2	4J0012	7SS11s	4JJsJJ	4JJ24-	SR20	CI P
y CNEr np. be	J4 1	17ss7	14727	17- 10	17242	4R4s	CI P
y CNEr np. be	J7 1	7SSJ	40S1	4071	4s2S	- R4-	CI P
y CNEr np. be	J6 1	0244	0200	0420	0- 16	1R 4	CI P
y CNEr np. be	J0 1	- 1SS	2s60	2J7S	2J0-	- R1s	CI P
y CNEr np. be	Js 1	0044	00s6	sS- 6	0s77	2RS1	CI P
mpOnEe dpe	17S 1	1S- 7S-	1S167S	1S- J12	1S- S21	1R10	CI P
mpOnEe dpe	17S 2	- 126S	- 1S- J	- S61s	- SJ0-	1RS7	CI P
mqCkpN	6S 2	J7617	J7642	J4J04	J7411	SR4S	CI P
uGCPt GCIbP	- 1 2	1sSS	10SS	10- -	1047	2R12	CI P
uCIl PPdpe	- J 2	164S06	162661	1647s4	16- 004	SR61	CI P
FGCndpe	1S- 1	600S27S	0s17726	7JSJ7SS	6s- 107J	1- R10	CI P
FGCndpe	1S- 2	- - 66S10	- - 7J226	- 2s1- - s	- - - 7720	1R41	CI P
DCI . npe	47 1	4614011	7126206	- 0J0140	4712012	14Rs6	CI P
DCI . npe	47 2	17S4- 6	14s020	14- 726	14076-	2R44	CI P
DpNp. dpe	s2 1	2220	2107	2226	221S	1R 6	CI P
DpNp. dpe	00 2	140	1sS	1JS	102	1- R10	CI P
DpNp. dpe	0s 2	271	270	2s-	264	6R47	CI P
DqNC.	2s 1	JSsJ4s-	JS0s- 0J	J62S74J	J262sS-	- R 7	CI P
DqNpI	1S0 1	607s-	66Ss-	60- 67	60S1S	1R21	CI P
DqNpI	1SJ 1	6- 4sS	61J67	6- Js2	6- 142	1R36	CI P
DCndpe	2- 2	6470s	674S0	6- S12	64- - 2	1RsJ	CI P
DiIC. idpe	s6 1	062- -	0- 00J	0627S	07421	1RsJ	CI P
DiIC. idpe	ss 1	6620s2	641670	6741S1	672s40	1R6-	CI P
DbNbI	- 4 1	- Ss44-	- S0271	- 1- Ss2	- SJ7J2	1RSS	CI P
cpIr dpe	17J 1	J0sSs16	1112J0JJ	s4Ss771	J00- S77	1- R12	CI P
cpIr dpe	17J 2	42S- s4s	414026S	- J0J- 0-	411S16S	2Rs4	CI P
cGI NNpe	2S- 1	6S442	6SSJJ	6- 017	6141s	- R27	CI P
cGI NNpe	2S7 1	146S11	14- s2J	14J144	146- 2s	1Rs-	CI P
cq	11s 1	11- ss	11S40	1260-	110S-	0R -	CI P
cqI . dpe	40 1	2ss4S-	20J- 07	2J477-	2s0444	2R36	CI P
5II . dpe	2- s 1	4SJ7S	41061	41J- 0	4174J	1R20	CI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCl:a	wI P8 I N
LI r :DI e t Nb:&T:a	3 - 47S S6	& FIIbe . pi:mI e p:a	us
9 Nb. i:DI e t Nb:&T:a	y h SMsSD	Tdbiq C. :M OCl:a	1
TI ip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja2sa11	TI il MdbN:mI e p:a	1- 4dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	174742	174707	1721J-	17- 00S	SRsJ	OI P
YiipIr dpe	102 1	11J- 1	114- S	11022	116J4	2R17	OI P
YiipIr dpe	102 2	7- 2J	72S0	7- 62	72JJ	1R77	OI P
YiipIr dpe	106 1	s72S	s00S	s261	s710	2RJJ	OI P
YiipIr dpe	106 2	17SSJ	14s07	1727J	17S4s	1R S	OI P
YiiIdpe	sJ 1	1- - - JJJ4	171s4ssJ	1SJ02JS6	1- 167J- S	16RS4	OI P
YiiIdpe	sJ 2	142J6S1	14- S427	1- S121J	1- s0Ss2	7R 6	OI P
ZqO	66 2	60J22	6J4J6	6ssJS	6s06J	1R17	OI P
ZdOC. dpe	JS 1	- 662-	- 262-	- 4660	- 46- s	7R0s	OI P
ZdOC. dpe	J1 1	ssJS	0220	0400	0s67	11R4S	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 447 S1	tOwTpmb Or T.u sb r :J	8 N
9 Pr CTI sb DPP:t&:.J	y h SMN1	&dPmTcnC:MsdTnp.J	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdPP:u sb r :J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
qPmb cCcmb	20 2	614420	6S- 6- 4	. 7N0. -	6S. 6S.	1R 2	dDw
qCTb nCE	121 1	4N. 1	40. 7	407-	4NS1	SR70	dDw
qpwr Ccd	0. 2	4176	41S-	411N	41- 7	1R21	dDw
Bspcmb	1- . 1	4607NS	4NN46S	47S0S2	4N2- N1	2R6S	dDw
Bspcmb	1- 0 1	N11. 1S	N. 14- 4	N0- - S7	N4. 41N	- R01	dDw
Br pEPRmb	7 1	2. - 0	260.	201S	2641	- R4.	dDw
Bcwb mTG	2S7 1	NS270N6	0N. 10. 4	. 22. - - S	0S- . 62-	22R 2	dDw
Bcwb mTG	2S7 2	- - 6. 46-	- - 07. . 0	- - 426- 0	- - 62. . 2	SR .	dDw
Bpmb cCr	N1 1	0- 44	0. 74	NS17	06. 2	4R46	dDw
9 sob cmb	1SN 1	2S4	227	210	210	. R00	dDw
9 sob cmb	1S6 1	46- 4	4. 4-	- 272	41. 6	1NRS4	dDw
9 sob cmb	111 1	2610	26. 2	2. . 0	26S7	1RN.	dDw
9 sPdcmb	4- 1	- 1N. 40	- 24N6S	- - 4. 7N	- 26SS2	2R4N	dDw
9 sPdcmb	44 1	. 2N2- NS	. 6606. .	. 046. 4-	. . 6. . 26	4R46	dDw
9 spenC	12 1	6- 1- - 76	6. NN- 1S	66N- 700	6. 2N. 61	2R7.	dDw
9 spenC	12 2	N- . 46	0N776	NS71.	N11. 2	2RN1	dDw
9 GPmpcCr	- . 1	2- S00N6-	200174N2	- S16- SN4	267N6N1S	1- R 4	dDw
9 GPmpcCr	- . 2	22S6S4	222- 07	224461	2224N1	SRN0	dDw
9 Gpmb cmb	. 2 2	- N- 2N	- 00N-	- 0272	- 0NS1	1R 0	dDw
9 nesFT	. 7 2	47. N7	4NS41	4600-	4N1- 4	2R7-	dDw
9 nDDr p	6- 2	1N0N. 4	1N002N	1N7114	1NN2- 2	SR41	dDw
&EwDpnwcmb	1. 6 1	6N141	0S2. 1	0- - 6S	0S. N4	- R02	dDw
&EwDpnwcmb	1. 6 2	274S2	2704-	276- -	27. 7-	SR 7	dDw
Upecmb	164 1	. - 6SS	. 6S1S	. 010-	. . . 7.	- R2N	dDw
Upecmb	164 2	22N. 6	22- S2	22- 76	22. 1N	1R 2	dDw
HsonRCcmb	16S 1	62176	6- 617	644- 2	6- 41.	1R0N	dDw
HsonRCcmb	16S 2	- S160	27SS2	2714.	274- N	2R16	dDw
h nPb cmb	16. 1	111N226.	1S0761SN	02S11S2	7026472	22R 0	dDw
h nPb cmb	16. 2	4274647	4- 0466N	4- SS0SN	4- 2- - 42	1RS-	dDw
tCocmb	11. 1	N14. 147	0N76- 72	. - 4SNN.	012040.	21R0N	dDw
tCocmb	11. 2	7N0- N2	7N6NS1	706. 67	7N- . N4	SR62	dDw
tpnC	. 4 2	- 1S7N64	- S. 0N- 7	- S. - NN.	- S0- N6-	1RS2	dDw
tpnC	. 6 2	. 6. 4124-	. 660S4N0	. . 020SN7	. 6- 1274S	SR71	dDw
tpnC	. 0 2	14. 1617	1- 777- 4	14- S. 70	1420- N4	1RN2	dDw
KpEDTnC	N- 1	- - .	- - 7	- 16	- - S	- R6.	dDw
Lr so	2S6 1	4064S1	. S- . . 7	. 12011	470. . 0	- RNS	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S1	tOwTpmb Or TusB r:J	8 N
9 Pr CTI sb DPP:t&:J	y h SMN1	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdPP:usb r:J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 l 1	9 8 l 2	9 8 l -	9 8 l y r s C	9 8 l F l &	5 CdTw
Lr so	2S0 1	- 7NN7-	41- 42N	42- 471	4117- 0	- PSS	dDw
Lr so	2SN 1	17S24- -	176. 172	2SS6. 62	17. NS62	2P6N	dDw
LdTGmb	6 1	270N727	2N11221	21S0. 40	26- 2. 66	10P.6	dDw
y sgOr wcmb	24 2	NS. N26	NS- N40	074104	NS12N2	SP0N	dDw
y sOgsOr wr	. . 2	07- - N2	07- 264	0N1N26	0N7471	SPN4	dDw
y nPEeor Omb	74 1	26006	20N- 0	207- 0	20. 10	2P.4	dDw
y nPEeor Omb	7. 1	6620	0S1S	01. 2	67- S	- P72	dDw
y nPEeor Omb	76 1	11470	1S7NS	12214	11. 64	. P.6	dDw
y nPEeor Omb	70 1	4. 26	4. . 7	441N	4. S1	1P6.	dDw
y nPEeor Omb	7N 1	111NS	11270	11S21	11166	1P24	dDw
u r noEb cmb	1. S 1	11407-	1166. 6	1214. 2	1106- 4	2P72	dDw
u r noEb cmb	1. S 2	- 62N2	- . N. 1	- . 66N	- . 7- 4	SPNN	dDw
u cdkr P	6S 2	24N2N	24777	2. 2S7	2. S12	SP06	dDw
8 GhwDGhpmw	- 1 2	0- 6S	0067	06. 2	0. 74	2P00	dDw
8 nTswwcmb	- 7 2	41S666	41- N77	4S. S2.	4S7N64	1P1S	dDw
F Ghocmb	1S- 1	NS. N- 1-	0607027	. - . 7126	0S- 2- N7	2SP0N	dDw
F Ghocmb	1S- 2	- - 7- 7- 4	- 4S- 0. -	- - . 1- 60	- - N- S1N	SPN2	dDw
I dsCocmb	4. 1	. - 104N.	. 10- 0N4	- 6147- .	40S2S6N	2SPSN	dDw
I dsCocmb	4. 2	1. 2S16	14NN76	14N- S2	1470- N	1P-	dDw
I r PPCmb	N2 1	106	2S2	17S	17S	6P72	dDw
I r PPCmb	00 2	100	12S	110	1- N	24P40	dDw
I r PPCmb	0N 2	0-	N7	11N	7-	24P44	dDw
I dPdnC	2N 1	147. 74NN	1. 27- 7- 7	1. N244. .	1. - . 7274	2PN4	dDw
I dPr p	1S0 1	2772	- 12.	270.	- S- 1	2P01	dDw
I dPr p	1S7 1	2760	- S10	- S42	- SS7	1P20	dDw
I nocmb	2- 2	. 6746	. 677.	. NS10	. 0- 17	1PS.	dDw
I TpnCTcmb	N6 1	27- 2S7	27162.	- S6274	270S4-	2P01	dDw
I TpnCTcmb	NN 1	26. - 04-	20S26N6	2N22SS2	2026144	- P10	dDw
I mPPmp	- 4 1	- - N- 4-	- 2677S	- 2- 474	- 276S7	2P.6	dDw
Ar pecmb	1. 7 1	11401- 42	1S04S712	04. 4NS1	7NN7S1N	21P64	dDw
Ar pecmb	1. 7 2	42- 1S. 0	424S20-	4160470	4212742	SP74	dDw
AGsPPmb	2S- 1	2- 60	24SS	2- . 7	2- 0.	SP7-	dDw
AGsPPmb	2S. 1	. N6N	. 61N	. . 4-	. 606	- PSS	dDw
AdC	11N 1	70S4	710S	1S7S0	7720	NP76	dDw
AdSCcmb	40 1	70042	1SSN. 4	1S241.	1SS- - 0	2P.0	dDw
5 psCcmb	2- N 1	NSS- 6	0720-	N1411	NS24S	1P.	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S1	tOwTpmb Or TuusB r :J	8 N
9 Pr CTI sb DPP:t&:J	y h SMN1	&dPmTcnC:MsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J- 1JS7	&sTsMdP:usb r :J	1- . qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I -	9 8 I y r sC	9 8 I F I &	5 CdTw
VsCsoomb	. 1 2	0S4- 7	60677	6N- 66	6NN- .	2RSN	dDw
YTTr pecmb	102 1	166- 6	16. . 2	10S7.	16061	1R04	dDw
YTTr pecmb	102 2	0741	0041	0717	0N60	1R 7	dDw
YTTr pecmb	106 1	11N02	11N. 6	11N22	11N. S	SR21	dDw
YTTr pecmb	106 2	1020-	16620	10- 60	10SN7	2R 6	dDw
YTTpcmb	N7 1	1. . 66N- N	1462- S26	1S4- 7. - S	1- . 4- 1- 1	2SR1.	dDw
YTTpcmb	N7 2	14767N6	146024S	144S0NN	146N- - N	1R71	dDw
ZdCd	66 2	N02SS	N4N- 7	N. 001	N. 7- 6	1R N	dDw
ZqpdnCcmb	7S 1	. N647	6- 261	6. 4NN	62466	. R N	dDw
ZqpdnCcmb	71 1	1- N- 2	14116	14441	141- S	2R16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUa1&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :u wb r :J	1- 6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	20 2	6S4S46	h7aSha	h7h2S0	h771S4	SM0h	dDl
qCTb nCE	121 1	42a4	- 7h7	464-	427h	0M16	dDl
qpl r Ccl	0h 2	4Sh-	41h0	41h-	4121	1M4-	dDl
Bwpcmb	1- h 1	4a4a72	40S6a6	4a112h	40a7S1	1M14	dDl
Bwpcmb	1- 0 1	a4a7a2	ah0271	a400S0	ah1- 20	SM61	dDl
Br pE8mb	7 1	2h42	26- 7	2h60	2ha-	1M1-	dDl
Bdl b mTG	2S7 1	67- 4104	0214- 26	01700h2	011h410	2M21	dDl
Bdl b mTG	2S7 2	- 276117	- - 1h107	- 41200S	- - 41- h6	1M40	dDl
Bpmb cCr	a1 1	0h44	0720	0aS2	00ha	2M12	dDl
5 wob cmb	1Sa 1	227	272	2- a	2h-	1- M12	dDl
5 wob cmb	1S6 1	406a	4- 06	41S7	441a	0M1S	dDl
5 wob cmb	111 1	2460	2476	22- 6	24SS	hM72	dDl
5 w8lcmb	4- 1	- 24h4-	- 2h67a	- 2h- a2	- 2h2Sa	SM1a	dDl
5 w8lcmb	44 1	hhh176S	hh16a04	h4- Sa21	h477aah	1M1-	dDl
5 wpenC	12 1	6- - 4672	6h47461	6621124	6hS10h7	2M27	dDl
5 wpenC	12 2	006hh	00h02	00664	006- S	SM80	dDl
5 G8hpCr	- h 1	2416020S	2072a701	2776hS- h	20- h- 0h7	1SM0h	dDl
5 G8hpCr	- h 2	216h1S	21720h	226a2S	22Sa6a	2M12	dDl
5 Gpmb cmb	h2 2	- 070S	- 00h-	- ah12	- aS0a	1M8-	dDl
5 new8T	h7 2	4002S	40026	467h4	40460	SM74	dDl
5 nDDr p	6- 2	1ah4S7	1a2ah4	1ah101	1a440a	SM00	dDl
&El Dpnl cmb	1h6 1	0S6h4	01SS6	0114a	0S7- 6	SM6	dDl
&El Dpnl cmb	1h6 2	2a604	- S- S1	2a041	272- 7	- M1h	dDl
Fpecmb	164 1	h0266	hh6S7	ha1a6	h0S2S	2M27	dDl
Fpecmb	164 2	22- 46	222Sh	22207	22206	SM1	dDl
Hwon8Cmb	16S 1	6ShaS	6- S47	6- - 6S	62- - S	2M44	dDl
Hwon8Cmb	16S 2	2a07a	272a2	276S7	272- S	1M4S	dDl
y n8b cmb	16h 1	1SS62Sh1	1SSa6- 07	1S2S0606	1S11a0S2	SM00	dDl
y n8b cmb	16h 2	411226S	424h27-	441h- S6	42h062S	- M10	dDl
tCocmb	11h 1	04- h7Sa	02aa2- 0	0- 24602	0- 476S6	1M8h	dDl
tCocmb	11h 2	7h0210	7044hS	7a6aSS	702a22	1M1-	dDl
tpnC	h4 2	- S2h6- 2	- S27- 62	- Sa27hh	- S4h7a-	1M8h	dDl
tpnC	h6 2	h4a16Sa6	hhha6- 22	h47- - S67	hh111a26	SM0h	dDl
tpnC	h0 2	1274S41	1- S1Sh4	12aa74h	12746aS	SM40	dDl
KpEDTnC	a- 1	- - 6	- 64	- 4S	- 40	4M1S	dDl
Lr wo	2S6 1	474140	47077-	477642	470261	SM10	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y SUa1&	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :uwb r :J	1- 6q . FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl -	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	2S0 1	411266	4246a7	41262-	41617-	1M0a	dDl
Lr wo	2Sa 1	17424ah	176S662	17h2h0S	17h17S6	SM40	dDl
LdTGmb	6 1	26- 1a0S	204474a	26h2h2a	2606447	2M2h	dDl
9 wgCr l mb	24 2	076h62	077S6-	07S271	07h- Sh	SM10	dDl
9 wCgwCr l r	hh 2	0a- 7S6	0a- 026	00h266	0aS766	SM0-	dDl
9 n8Eeor Cmb	74 1	2647-	266ah	20S74	260h0	1M1h	dDl
9 n8Eeor Cmb	7h 1	h006	61- h	621S	6S4S	- M44	dDl
9 n8Eeor Cmb	76 1	1Sh07	1S1a0	1S46-	1S41S	1M7-	dDl
9 n8Eeor Cmb	70 1	- a10	- hS7	- 0- 4	- 6a0	4M-	dDl
9 n8Eeor Cmb	7a 1	7701	7a4h	70- 0	7ah1	1M17	dDl
u r noEb cmb	1hS 1	110- S7	11760h	11a6a1	11ahhh	1M8S	dDl
u r noEb cmb	1hS 2	- 4712	- 4716	- 4722	- 4710	SM81	dDl
u cdkr 8	6S 2	2h27-	24h21	244ha	240h0	1M4a	dDl
NGhl DGhpml	- 1 2	0ha6	0hS2	0017	06S2	1M44	dDl
NnTwl l cmb	- 7 2	4Sa2S0	4S1a0S	4S- - 10	4S4464	SM42	dDl
. Ghocmb	1S- 1	0- 102a6	02aaa2-	0220- 61	0200a2-	SM0-	dDl
. Ghocmb	1S- 2	- - 2a- - -	- - S14- 2	- 44SSS1	- - h6ha7	2M17	dDl
l dwCocmb	4h 1	404a760	4ah7- 22	4aS744-	4aSh711	1M1h	dDl
l dwCocmb	4h 2	14h- 61	14676-	1hS- 47	140hha	1M0-	dDl
l r 8 Ccmb	a2 1	144	162	146	1h1	6M0h	dDl
l r 8 Ccmb	00 2	1- S	110	1- -	120	6M76	dDl
l r 8 Ccmb	0a 2	114	11-	146	124	1hM1S	dDl
l d8dnC	2a 1	1h2- 01aa	1hh0- hha	1h2h74h0	1h- h60- 4	1M42	dDl
l d8vr p	1S0 1	- h60	- 4h1	- 1- 4	- - a4	6M0-	dDl
l d8vr p	1S7 1	- S0h	- 260	2760	- 1S-	4M7S	dDl
l nocmb	2- 2	h- 604	h- 7SS	h42- h	h- 7- 6	SM12	dDl
l TpmCTcmb	a6 1	2724S1	2770h-	277411	2701aa	1M4S	dDl
l TpmCTcmb	aa 1	20- - 221	20h6170	20hS7Sh	204600h	SM44	dDl
l m8mp	- 4 1	- 1S- - 0	- S0- - h	- S- 0a4	- S01h2	1M80	dDl
Ar pecmb	1h7 1	1S12- aa2	1S2a6740	1S2h716a	1S22- - - 2	SM4h	dDl
Ar pecmb	1h7 2	412a- h4	42S77S0	421a1- 0	41ah466	1M17	dDl
AGw8mb	2S- 1	22SS	21- 4	2272	22S7	- M0S	dDl
AGw8mb	2Sh 1	h16a	h1- h	4a6a	hSh0	- M2h	dDl
AdC	11a 1	a72a	7112	747h	710a	- M1h	dDl
AdTwCcmb	40 1	7a0- 2	7a0- 7	7ahaa	7a6a6	SM87	dDl
RpwCcmb	2- a 1	007S6	077S1	a1SSa	076Sh	1M70	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	3 - 447 S2	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y SUa1&	&8mTcnC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J-4JSa	&wTwUd8 :u wb r :J	1-6q. FUMd

NwpwbrTrp	9 wl l	5 NI 1	5 NI 2	5 NI -	5 NI 9 r wC	5 NI . l &	RCdT
VwOwocmb	h1 2	674S4	6a4- -	6aaSa	6aaa1	SM01	dDl
YTTr pecmb	102 1	16420	16-74	160a6	16h-6	1M1	dDl
YTTr pecmb	102 2	00ha	0671	0h24	06ha	1M10	dDl
YTTr pecmb	106 1	11422	11722	112a7	11h44	2M47	dDl
YTTr pecmb	106 2	16a61	16422	104S6	16a76	2M72	dDl
YTTpcmb	a7 1	14S7-074	14102a01	1-7h-102	14S0-207	SM07	dDl
YTTpcmb	a7 2	141-h4a	141a146	1467266	14- - 6h-	2M16	dDl
ZdCd	66 2	a62h4	a46a1	ah10a	ah-01	SM74	dDl
ZqpdnCcmb	7S 1	61-S2	62a42	6-244	6246-	1M64	dDl
ZqpdnCcmb	71 1	14S-2	14247	1-46h	1-716	2M71	dDl

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPlIer Fpiabolrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFaloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNabolrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqP
dNer qFqer	23X2	12J-m1	124Jmm	12-2O2	124-0O	OJm0	otP
dFiqEFy	121X1	m--	m13	0Jm	m60	m001	otP
dIPpFqp	3JX2	mO6	mJ4	m14	m2J	-J12	otP
BlIqer	1-JX1	03631	0m1O6	03J0-	0330O	OJ2m	otP
BlIqer	1-3X1	13JO-J	13J333	1320OO	134J31	OJm6	otP
BplyNqer	0X1	J26	J43	J06	JJ3	6J4J	otP
BqPreih	2O0X1	36JJ104	3O3mJ-O	6m-m60m	310OmO3	JJm4	otP
BqPreih	2O0X2	-O02441	-OJ42O4	-OJ0m03	-O6mm43	OJ63	otP
BlErqFp	m1X1	4mO1	43J1	40-4	4m20	1J06	otP
MlRrqer	1OmX1	Jm	JO	63	Jm	14J20	otP
MlRrqer	1O6X1	4102	-0OO	-6J0	-02O	6Jm1	otP
MlRrqer	111X1	mJm	m64	m44	mJJ	1J10	otP
MlNqer	4-X1	64m00	6Jm-O	66-m1	6J3O-	1J14	otP
MlNqer	44X1	1Om-333	1O02246	11OJJ46	1O0-mJ6	1J0O	otP
MlISEF	12X1	-131004	-22-0-2	-1mOmmJ	-102231	OJm3	otP
MlISEF	12X2	-m-O1	-m66m	-30m-	-m-13	OJm0	otP
MhNEIqFp	-JX1	11-m13J6	114JOJ3-	114224-O	1141m2J-	OJ-O	otP
MhNEIqFp	-JX2	3-J62	34O6J	3-11m	3-Jm2	OJ64	otP
MhIErqer	J2X2	m36-	m606	mJ10	m6J0	1J4J	otP
MESINN	J0X2	0034	1OOJO	060O	00OJ	1J02	otP
MEttpl	6-X2	-03O0	-0-21	-042J	-04mJ	OJJ1	otP
TyPtIEPqer	1J6X1	14J63	1-024	14---	1423J	2J2m	otP
TyPtIEPqer	1J6X2	611m	JmJJ	J0Om	J06O	2J-4	otP
ISqer	164X1	114OJ	113m1	11432	11JJ-	1J3-	otP
ISqer	164X2	4J11	4621	4m3m	463O	4J0-	otP
GlRENqFqer	16OX1	122m0	12JO6	126-1	12436	1J-0	otP
GlRENqFqer	16OX2	62mm	Jm0J	6OmJ	6Om0	-J2-	otP
9ENqer	16JX1	1O600J02	006O231	0m-3-46	1O16J3-6	4JJ0	otP
9ENqer	16JX2	-021066	-0O266-	4O3060J	-06m1Om	2J4J	otP
&FRqer	11JX1	mOm2666	3-J4J6-	3-0JO46	361O3Jm	JJ-m	otP
&FRqer	11JX2	mm4343	m303O1	01J1J0	m0-2O2	2J1J	otP
&EF	J4X2	Jm0O62	J0O134	Jm-4m0	Jm3J3J	OJ61	otP
&EF	J6X2	1146mJ2O	11JOO0-2	11410063	1146-14O	OJ-6	otP
&EF	J3X2	23-1O1	26m034	26m140	23OO34	OJ0m	otP
KlytiEF	m-X1	260	2J0	20O	232	JJm6	otP
LplR	2O6X1	0m2O4	1O1JO6	1O1-1J	1OO-41	1JmJ	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiablrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNablrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqP
LplR	2O3X1	m-O4m	m2330	m46J-	m-40-	1U21	otP
LplR	2OmX1	-0124m	-020O-	-0m06m	-04-3-	1UO-	otP
Lqihqer	6X1	23O6261	2J41-01	2JJmJ--	26O2O62	-U4m	otP
HlgFpPqer	24X2	1642O-	164mJm	1Jm4O6	1624m0	2U10	otP
HlFglFpPp	JJX2	16-1J2	16J432	1640J1	164J2J	OU34	otP
HENYSRpFer	04X1	J136	J-0-	J-O1	J20O	2UO6	otP
HENYSRpFer	0JX1	11Om	162J	1-Om	1-43	10UJ4	otP
HENYSRpFer	06X1	212J	242J	2-OO	22m4	6U6O	otP
HENYSRpFer	03X1	mm-	mJO	m2J	mJ-	-U4-	otP
HENYSRpFer	0mX1	1002	2263	2202	21m4	3U62	otP
bpERyrqer	1JOX1	2-m42	24O40	24O22	2-031	OU43	otP
bpERyrqer	1JOX2	3202	3-20	31mJ	3260	1UO2	otP
bqpkpN	6OX2	JO2m	J-41	J22m	J100	-UOJ	otP
uhEPthElePP	-1X2	13Jm	16Om	142J	1J03	1OU4J	otP
uEilPPqer	-0X2	0OO2m	013O3	0O164	0OO--	OUmJ	otP
7hERqer	1O-X1	3333J12	3-2mJ-2	3-4mJJ3	34m4m63	-UJ0	otP
7hERqer	1O-X2	20m4246	-O6OJO1	-1-32JJ	-O6O663	2UJO	otP
DolFRqer	4JX1	JO13OJm	43mJ3-m	46043J1	4m-2J16	-U44	otP
DolFRqer	4JX2	1-4024	1-121m	1-6mm2	1-4-41	2U14	otP
DpNpFqer	m2X1	4O	4J	m	-1	66UO4	otP
DpNpFqer	33X2	--	2O	6O	-m	J-U02	otP
DpNpFqer	3mX2	-m	-J	2J	--	2OUm4	otP
DqNpEF	2mX1	-1mJ113	-2262J0	--1203m	-2414J1	2UO1	otP
DqNpl	1O3X1	363	m--	3OO	363	mU3O	otP
DqNpl	1O0X1	3Jm	62J	mOm	3-1	12U03	otP
DERqer	2-X2	24O2O	2-mO-	24O30	2-063	OU61	otP
DilEFiqer	m6X1	Jm264	6OO-0	J0mmm	J0-03	1U66	otP
DilEFiqer	mmX1	JO4m1J	J101O1	JOO006	J11-O4	1U41	otP
DeNel	-4X1	2J026J	261404	26423m	261630	OU06	otP
cplSqer	1J0X1	11226O64	1O12-211	0011-3O	1O42O21J	6U33	otP
cplSqer	1J0X2	-34304J	-3O-610	-m34J31	-33J-3m	2UJJ	otP
chlNqer	2O-X1	413	J2J	62J	J22	10UOJ	otP
chlNqer	2OJX1	143J	1J2J	1JOO	1JOO	1U63	otP
cqF	11mX1	2m42	-1OO	2J02	2m4J	mU04	otP
cqlFqer	43X1	102mm	2OJ1J	2O-6J	2OOJ6	-UJ4	otP
CIlFqer	2-mX1	1J1J0	1J433	1Jm44	1J40-	2U21	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBabor Splas	LB1264O3	5tplliElas	wlP8lN
LlSaDlrtNpa&Taaa	5-440XO1L7 :J	&FPIler Fpiabolrpas	um
MNpFiaDlrtNpa&Taaa	H9O.m1L	TqNidqEFalloiElas	J
TlipaAacqpadonedqpRas	2O2-XO3X12a10s-3sO4	Tlil.dqNabolrpas	1-3d7 .UR

ullr pipl	HlPP	MuD1	MuD2	MuD-	MuDHplF	MuD7DT	CFqP
VlFlRqer	J1X2	14223	144m4	14J41	14413	1U16	otP
YiiplSqer	132X1	-Jm4	-O13	-202	-20m	m16O	otP
YiiplSqer	132X2	16--	16-0	13--	1660	-U3	otP
YiiplSqer	136X1	-636	-426	-436	-J26	-U3J	otP
YiiplSqer	136X2	11411	114OO	12-J6	11322	4U6m	otP
Yiilqer	m0X1	142O34O0	1--m000-	1-1m3-16	1-J040O6	-U03	otP
Yiilqer	m0X2	11m22m1	116m0O1	12202J3	110-4mO	2U66	otP
ZqFo	66X2	13m11	1306J	13-J1	133O0	1UmO	otP
ZqloEFqer	0OX1	12J64	1263-	12m0m	12312	1U4	otP
ZqloEFqer	01X1	2Jm4	262J	23-4	264m	2U0-	otP

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S-	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUN1I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r:J	1- Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb dCmb	20 2	6- NNh-	62- 4- 4	6- - NSN	6- 2S- 2	1M24	dDw
qCTb nCE	121 1	11S76N	11hh12	116N7S	1144h6	2M01	dDw
qpwr Cd	0h 2	h247	h17-	h20S	h2- 0	SM0h	dDw
Bspmb	1- h 1	7NSh04	1S4N- 16	1S- 60- h	1S21N0h	- M1h	dDw
Bspmb	1- 0 1	1N- S260	1720- S4	17444Sh	17SS6h7	- M24	dDw
Br pEPmb	7 1	10- 27	1N0S6	1N- 6-	1N1- -	- M7h	dDw
Bcwb mTG	2S7 1	04h4- h4	h1hhN6N	6- 7764N	6- - 662-	1NM16	dDw
Bcwb mTG	2S7 2	- - 72- N7	- 26620h	- - 0004-	- - 4h467	2M36	dDw
Bpmb dCr	N1 1	66Nh	0220	NS44	0- 17	7M1h	dDw
5 sob mb	1SN 1	11N-	1101	1101	110h	SM61	dDw
5 sob mb	1S6 1	h66N	4Nh1	hS06	h17N	NM12	dDw
5 sob mb	111 1	1620N	102N1	16077	160N6	2M77	dDw
5 sPdmb	4- 1	- 1- 1hS	- 27- - S	- 2- N42	- 221S0	2M1h	dDw
5 sPdmb	44 1	h- 20SNh	hh22070	h47116h	h440S1h	1M7-	dDw
5 spenC	12 1	h422N- 7	h06h422	h0NS- N1	h6h6214	- M1N	dDw
5 spenC	12 2	672- N	67- 14	0SS2h	67h26	SM02	dDw
5 GPmpdCr	- h 1	1760hS6S	2hS4S760	206NS2N-	241- 21S-	16M7S	dDw
5 GPmpdCr	- h 2	2S6h6h	2S72S-	21h1S4	21S271	2M3N	dDw
5 Gpmb mb	h2 2	1S64N-	1S6211	1S47h2	1ShNN2	SM00	dDw
5 nesPT	h7 2	- 6hNh4	- 6210-	- 60020	- 6h2h1	SM00	dDw
5 nDDr p	6- 2	274- 6N	27- 7SN	27S4SS	272N72	SM04	dDw
&EwDpnwmb	1h6 1	66N4-	01h- 4	67706	674h1	- M44	dDw
&EwDpnwmb	1h6 2	27172	2N021	2N14-	2N6Nh	1MM-	dDw
Fpemb	164 1	h42N0	h66NN	hhN1N	hhh7N	2M17	dDw
Fpemb	164 2	22172	2217h	2171h	221S1	SM0-	dDw
HsonPCmb	16S 1	6S00-	6h11N	6- S- -	62704	- M4h	dDw
HsonPCmb	16S 2	2N7- 1	2N0Nh	2N06N	2NN2N	SM11	dDw
y nPb mb	16h 1	1Sh- h104	0460171	7S- 4S4N	7S121- N	10M32	dDw
y nPb mb	16h 2	4- h126h	4107S10	42h1241	426ShS0	2M3-	dDw
tComb	11h 1	007- - N0	h- - - 146	66N2Nh2	66S- 12N	1NM06	dDw
tComb	11h 2	7h0h- N	741211	76- 10-	7h- 704	1M2S	dDw
tpnC	h4 2	- 12024N	277446h	- Sh60S-	- Sh7402	2M10	dDw
tpnC	h6 2	h4N270S-	h4421466	hh10- 114	h4NSNS74	SM07	dDw
tpnC	h0 2	1422614	14117N1	14SNS44	141421-	SM1-	dDw
KpEDTnC	N- 1	202	- - 0	27h	- S2	1SM74	dDw
Lr so	2S6 1	4N4NN6	h1- 210	h100- S	hSh20N	- M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S-	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN1I	&dPnTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r:J	1- Nq. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	2S0 1	4S646-	42N464	42706N	421h6h	- M11	dDw
Lr so	2SN 1	17SNN04	2S- hS6h	2SS10hN	17N1N77	- M1S	dDw
LdTGmb	6 1	2612N61	2S12N22	2hS17h-	2- 0hN07	1- M14	dDw
9 sgOr wcmb	24 2	0774SS	0N0S2h	NS21hS	076171	1N31	dDw
9 sOgsOr wr	hh 2	N01NN6	Nh7N- 4	N61hN-	N644- 4	SN0h	dDw
9 nPEeor Omb	74 1	24hN7	2h6hN	2h741	2h- 76	2NM1	dDw
9 nPEeor Omb	7h 1	hh06	h76N	hNS1	h0N2	- M1S	dDw
9 nPEeor Omb	76 1	7N27	1SSh4	7627	7N- 0	2M16	dDw
9 nPEeor Omb	70 1	- 4- 4	- 6S1	- 0h7	- h7N	4M12	dDw
9 nPEeor Omb	7N 1	NN2S	7N62	7h62	741h	hN0S	dDw
u r noEb omb	1hS 1	11- - NN	121S70	11NS41	110hS7	- M1S	dDw
u r noEb omb	1hS 2	- h0hN	- 40- h	- 402N	- hS04	1N07	dDw
u cdkr P	6S 2	11hh- 1	11- 707	11h121	114N00	SN0S	dDw
8 GhwDGhpmw	- 1 2	02S2	0hS2	6767	0224	- N0S	dDw
8 nTswwcmb	- 7 2	411h46	4S7N4-	41- 014	4110S1	SM40	dDw
. Ghocmb	1S- 1	0h214S7	h- NhS- 7	6h14N1h	640- 0hh	16M11	dDw
. Ghocmb	1S- 2	- 21S- 27	- 2224h7	- 2Nh1- 0	- 2- 7- SN	1N24	dDw
I dsCocmb	4h 1	hS- Nh- 1	- hN7hS4	4264- S0	4270440	16MN0	dDw
I dsCocmb	4h 2	14N276	1461- 6	1462h4	146N7h	SMM-	dDw
I r PPCcmb	N2 1	24S7	2446	24S4	242S	SM76	dDw
I r PPCcmb	00 2	2hS	160	1h0	171	26MM1	dDw
I r PPCcmb	0N 2	- 17	- 1N	- 24	- 2S	1N3S	dDw
I dPdnC	2N 1	14117hNh	1h66S4Nh	1h44- 7S7	1hS0466S	hM1-	dDw
I dPr p	1S0 1	64h6N	6NN- 7	60hS0	66702	- N26	dDw
I dPr p	1S7 1	61N7N	66220	6h66h	64h70	- N04	dDw
I nocmb	2- 2	6412h	6hN66	647S-	6476h	1M4	dDw
I TpnCTcmb	N6 1	2N417S	27Nh47	- SS- 14	274- h1	- N3S	dDw
I TpnCTcmb	NN 1	2h7447h	202SS41	206SN4N	267107h	- N22	dDw
I mPPmp	- 4 1	- S- 14S	- S- h21	- SSN1N	- S247-	SM4N	dDw
Ar pecmb	1h7 1	1SNh4- 12	0h7h6h4	72SS12-	7216670	10N3N	dDw
Ar pecmb	1h7 2	4171767	41S1S- 6	4S07466	41241h0	1M4h	dDw
AGsPPcmb	2S- 1	hN1N2	64S41	6- 741	62Shh	hM41	dDw
AGsPPcmb	2Sh 1	144S0-	1hSN46	14N2SN	1400S7	2M1	dDw
AdC	11N 1	11- hh	112Sh	1S076	11117	2N3S	dDw
AdSCcmb	40 1	1SS12N	77- 61	70664	77Sh1	1N20	dDw
RpsCcmb	2- N 1	0N762	Nhh01	N01SN	N- NNS	hM16	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S-	tOwTpmb Or Tusb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN1I	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:17J4SJS0	&sTsUdP:usb r :J	1- Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	h1 2	2S2010	2SSN0S	17N2- S	2SS6S6	1M12	dDw
YTTr peomb	102 1	161Nh	10- S-	16SS2	16470	4M20	dDw
YTTr peomb	102 2	07- S	0hSN	N1NS	0N0-	4M12	dDw
YTTr peomb	106 1	110- 1	12SS6	12SS6	11714	1M-	dDw
YTTr peomb	106 2	16674	166hS	100S1	10S1h	- M47	dDw
YTTpomb	N7 1	140hS206	1S- N- N4S	12NSS- S1	12644NS6	10MS	dDw
YTTpomb	N7 2	1421- hN	141047h	1- - S74-	1- N77- 2	- M0N	dDw
ZdCd	66 2	11N400	11NhS0	11716S	11N01h	SM12	dDw
ZqpdnComb	7S 1	h7- 2h	61200	61SS1	6Sh- 4	1M0h	dDw
ZqpdnComb	71 1	12N7S	1- hh0	14177	1- h47	4MM-	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MPA R&psb I Pr:Dr :J	H9 O. N1L	t ARn&nR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
cPmb ARAmb	23X2	110462	110342	110 O1	110 6N	OU1-	ql w
cR&b nRy	121X1	NN-	NN-	3- -	N- -	1OU0	ql w
cSvr RAq	3 X2	3N1	NON	300	306	1U3-	ql w
BsSAmb	1- X1	0 630	00ON0	0 - O-	0660O	2U16	ql w
BsSAmb	1- 3X1	16N- 6	160210	163N-4	16N43O	OU41	ql w
Br SyPAmb	0X1	10	40	400	22	4UN2	ql w
BAb m&a	2O0X1	644 3- 4	602ON64	3O21163	630 022	4U 2	ql w
BAb m&a	2O0X2	- 200N44	- 2- 3 0	- 234 1	- 23O6 1	OU06	ql w
BSmb ARr	N1X1	43- 4	4N0-	401N	4N4N	2UD	ql w
Msob Amb	1ONX1	02	31	N	34	22UNN	ql w
Msob Amb	1O6X1	- N4	- 3N4	- 6- 4	- 663	2UN4	ql w
Msob Amb	111X1	3N6	366	33-	33	1U20	ql w
MsRqAmb	4- X1	64O11	6- 0N4	642 3	64ON4	OU2-	ql w
MsRqAmb	44X1	1O6324O	1O3N11N	1ON2 O0	1O3 0 6	OU3-	ql w
MsSenR	12X1	20N6064	20 N242	- O244- 0	20N0NN2	1U11	ql w
MsSenR	12X2	- 6- 46	- O36	- NN6	- 360	1UNO	ql w
MhPnSRr	- X1	1O 1- 6-	1ON- 442	1O60623O	1O6N13 N	1U 1	ql w
MhPnSRr	- X2	31263	604 0	60402	3OO3-	1U4N	ql w
MhSmb Amb	2X2	N620	N 00	N- - 6	N 21	1UN0	ql w
MnesR&	0X2	06N3	0 - O	0 13	0 3N	OU00	ql w
MnI I r S	6- X2	- 0 32	- N412	- 3N- 1	- N6O	2U- O	ql w
t ywl SnwAmb	1 6X1	1- 00	141- -	1- 0N-	1- 0O	1U0N	ql w
t ywl SnwAmb	1 6X2	6OO	0O1	N61	022	1U2	ql w
FSeAmb	164X1	11O	1121-	112O	111 N	OUNO	ql w
FSeAmb	164X2	4423	4 O3	4463	4463	OU0O	ql w
GsonPARAmb	16OX1	126- 1	116O	1264N	1220	4UN6	ql w
GsonPARAmb	16OX2	6ONN	6O3N	6O4	6O3O	OU- 3	ql w
9nPb Amb	16 X1	02- 123N	0061O4N	034- 022	064 416	- UN0	ql w
9nPb Amb	16 X2	4224N26	41624N	42 6063	42143 0	1U14	ql w
DRoAmb	11 X1	66 2143	3O066N2	32 - 304	3OOON34	4U46	ql w
DRoAmb	11 X2	0 26N3	0 N103	0 - O- O	0 46- N	OU- 2	ql w
DSmR	4X2	6 13	63644	34N- 3	60- - 2	OUN6	ql w
DSmR	6X2	11- O O46	1111O632	1O0 N430	111243- -	1U 6	ql w
DSmR	3X2	2634 4	26416N	2616- 4	264410	1U1O	ql w
KSyl &aR	N- X1	2N3	2N0	204	20O	1U14	ql w
Lr so	2O6X1	0324O	00- 30	00 NO	0N3- -	1U 1	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr :J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MPAR&psb I Pr:Dr :J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r :cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Ud

8sSsb r &S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
Lr so	2O3X1	3041	N- 1- 2	N- 0	N2163	2U04	ql w
Lr so	2ONX1	- NO2	- N0O10	- 0O 26	- N66OO	1U4-	ql w
LA&nAmb	6X1	2- - O663	2 4132	2 - 103O	246N121	4UN-	ql w
HsgRr wAmb	24X2	1 N1N6	161300	1 6 04	1 NN6O	1U6N	ql w
HsRgsRr wr	X2	1 3160	1 0304	1 3- N	1 N1O3	OU0-	ql w
HnPyeor Rmb	04X1	44-	- O0	4NN4	212	U6O	ql w
HnPyeor Rmb	0 X1	1- N-	12ON	1202	120	6U36	ql w
HnPyeor Rmb	06X1	22N4	2163	21 O	22OO	- U O	ql w
HnPyeor Rmb	03X1	3 O	3N-	663	3- -	NU2O	ql w
HnPyeor Rmb	0NX1	2OOO	1013	2ON4	2OOO	4U13	ql w
ur noyb Amb	1 OX1	220NO	2- N62	2- N61	2- 6N	2U16	ql w
ur noyb Amb	1 OX2	3OO	3110	322	3116	1U	ql w
uAqkr P	6OX2	O0N	O14	4364	40 0	- U O	ql w
8hnwl hnSnw	- 1X2	1 42	1642	16OO	1 0	- U1	ql w
8n&swwAmb	- 0X2	01O3O	NN 46	NN- 2N	N0- 1	1U31	ql w
EhnoAmb	1O- X1	6633- NO	3ON2N1N	31 1 21	603O 3-	- U6N	ql w
EhnoAmb	1O- X2	- - - 41O0	- - 123- N	- - 4- 011	- - - O2 -	OU4N	ql w
pqsRoAmb	4 X1	4- 3OOO2	46- 630	46- 0333	4 4N4N6	- U4O	ql w
pqsRoAmb	4 X2	14 406	14- 0 O	14- 6O-	144- O	OU3O	ql w
pr PRAmb	N2X1	X- 4	- 1	X4	X2	X1 NUNO	ql w
pr PRAmb	33X2	13	4-	23	20	46U62	ql w
pr PRAmb	3NX2	- N	20	43	- N	2- U6N	ql w
pAAqnR	2NX1	- 16 064	- 10 662	- 166022	- 1361N-	OU -	ql w
pAPr S	1O3X1	642	N- -	363	343	1- UO2	ql w
pAPr S	1O0X1	642	342	32	3O-	3U62	ql w
pnoAmb	2- X2	2- NN3	22004	2- NN3	2- N0	2U10	ql w
pSSnR&Amb	N6X1	N334	0410	6O2- O	0434	1U2-	ql w
pSSnR&Amb	NNX1	1 16	14- 6O	1 N4O	1 122	OU14	ql w
pmPmS	- 4X1	2 2642	2 13 0	2 - O- 1	2 2433	OU26	ql w
i r SeAmb	1 0X1	041O36N	1OO O21O	1OO2- 220	0N2NO60	- U6N	ql w
i r SeAmb	1 0X2	414O 26	41- ON 4	41- 1210	41- 42OO	OU1-	ql w
i hsPAmb	2O- X1	642	6ON	613	622	2U30	ql w
i hsPAmb	2O X1	1- O	1 42	122	1- 32	11U62	ql w
i AR	11NX1	2063	23 0	2 02	233-	6U3N	ql w
i A&sRAmb	43X1	1N306	10 14	10NO6	10- 32	2U6N	ql w
CSsRAmb	2- NX1	1 44-	1 6-	1 - 0-	1 40O	OUN2	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber SJ	LB1264O3	5 I r Ss&aSJ	aswl sP
Lse:psb I Pr:Dr:J	5 - 440XO1L7	DRw&Smb Rr &usb r:J	8 N
MFAR&psb I Pr:Dr:J	H9 O. N1L	t ARn&AR. sq&aSJ	
t s&:T:i Ao r:cqdmAS o:J	2O2- XO3X12:10J4- JO4	t s&s. AP:usb r:J	1- 0cEF. Ud

8sSsb r&S	Hsww	M8p1	M8p2	M8p-	M8pHrsR	M8pEpt	CRA&w
VsRsoAmb	1X2	1- 3 3	1414O	1- 3O	1- N22	2U1O	ql w
Y&&SeAmb	132X1	- - 13	- 6 0	- 2 0	- 412	6U4	ql w
Y&&SeAmb	132X2	160	1632	16 6	1634	1U13	ql w
Y&&SeAmb	136X1	- 213	- 2 O	- 0	- - 42	U64	ql w
Y&&SeAmb	136X2	1210	12 4O	1- - 12	126N2	4U 1	ql w
Y&&SAmb	N0X1	1246- N61	1- 1143N	1- 142 N1	120O3O36	2U0N	ql w
Y&&SAmb	N0X2	1- 432N4	12N6NN-	1206- N	1- 1O13	2U4N	ql w
ZARq	66X2	136 4	131N1	132 4	13- 6-	1U43	ql w
ZASqnRAmb	0OX1	12- 14	121 6	12- O6	122 N	OU3-	ql w
ZASqnRAmb	01X1	2 02	2 63	20O0	26N0	3U0N	ql w

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP usb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	16SS200	16SS4N6	1hh2- S6	1hN4- h6	1M0h	dDw
qCTb nCE	12171	2N2h	2- : 2	26h:	262h	NM-	dDw
qpwr Ccd	0h72	1hhN	1h01	14NS	1h- 0	- M2S	dDw
Bspcmb	1- h71	14S4N4	14S0Sh	141S- S	14S04S	SM2S	dDw
Bspcmb	1- 071	241: 24	2h- 161	24: 2NN	24N124	2M1S	dDw
Br pEPPcmb	: 71	: 4h	: SS	: 6S	: - h	- M4	dDw
Bcwb mTG	2S: 71	6- 1N160	6: - 0hhh	0- 4- 0- 1	6N664N4	0M12	dDw
Bcwb mTG	2S: 72	- 2h6SNh	- 4h4SS0	- 22NS16	- - 120S2	- M02	dDw
Bpmb cCr	N171	4: S:	4N26	4: h1	4N: h	1M1S	dDw
5 sob cmb	1SN71	110	hS	NN	Nh	- : M4h	dDw
5 sob cmb	1S671	- N06	- 6S:	4S10	- N- 4	hM41	dDw
5 sob cmb	11171	NNh	N02	: 2S	N: 2	2M00	dDw
5 sPlcmb	4- 71	2- : S1N	241N: 2	2- NN46	2- : : 1N	SM01	dDw
5 sPlcmb	4471	4S01: : h	424- 62S	4SN26N4	41- 2066	2M-	dDw
5 spenC	1271	440: 2- N	400h2: -	400S44h	4604: : 2	- M0-	dDw
5 spenC	1272	h02: 6	hN0: -	h04N0	h0Nh:	1M41	dDw
5 GPmpcCr	- h71	1: 26: 6N:	244- S- S1	20S21: - N	2- h0- : 06	16M04	dDw
5 GPmpcCr	- h72	2S2S62	2S: SN4	2SNh6S	2S6h6:	1MN:	dDw
5 Gpmb cmb	h272	1102: -	110: 4h	116h: 0	11020N	SM10	dDw
5 nesPT	h: 72	: - 1: :	: - 4S0	: - 64-	: - 416	SM24	dDw
5 nDDr p	6- 72	2- 1h01	2- - - 22	2- 14h2	2- 211h	SM4h	dDw
&EwDpnwcmb	1h671	- 604-	- 64S1	- 020N	- 6NS0	1M2S	dDw
&EwDpnwcmb	1h672	16S: -	1610-	1hN4S	16S- h	1MS:	dDw
Fpecmb	16471	- 16NS	- 1N22	- - 2: 2	- 226h	2M00	dDw
Fpecmb	16472	1- 061	12: N-	12066	1- 10S	- M0	dDw
HsonPCcmb	16S71	- N140	- NNh0	- N- - 1	- N44h	SM16	dDw
HsonPCcmb	16S72	1N- N:	1Nh2S	1N- S6	1N4Sh	SM1N	dDw
KnPb cmb	16h71	: S- 064N	1S2- 0: SS	1S22h: 4h	: N- - N- 1	0MS1	dDw
KnPb cmb	16h72	42: : N: h	4- 612S2	41S- NSS	42h4: 66	- M16	dDw
tCocmb	11h71	64N0SS0	022N- 4N	02NS0h4	6: : N0S-	6M4	dDw
tCocmb	11h72	: 6- 40h	: 6: N14	: 260- 6	: h- - 41	2M44	dDw
tpnC	h472	4421N: 6	4- NN: - 0	4- 1- - 4:	4- 04020	1M20	dDw
tpnC	h672	0: h11- Nh	NS: : 22: -	0N1: 1: NN	0: h6h222	1M06	dDw
tpnC	h072	2S: 14S6	2S6N666	2S1N: - 2	2Sh: 66N	1MNS	dDw
gpEDTnC	N- 71	- SS	- 2:	- 10	- 1h	4M1:	dDw
Lr so	2S671	0N42S	N2612	0: 66h	NS2- 2	2M0N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 ayq NS	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP usb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S071	60- hN	6NShS	6626-	60224	1M4	dDw
Lr so	2SN71	- 1h6: 1	- 1N4h:	- 1424-	- 161- 1	SM6N	dDw
LdTGmb	671	241SNS6	26- 0SN0	26N- 161	2h00S1N	hM06	dDw
9 sk Or wcmb	2472	20S00- 6	20- - 0hh	26446S2	26: h- 64	1M0S	dDw
9 sCks Or w	hh72	: S4Shh	NN: N10	NN2: h6	N: 2206	1M21	dDw
9 nPEeor Cmb	: 471	616S	6020	6- 00	6421	4M46	dDw
9 nPEeor Cmb	: h71	- S42	20N4	2010	2N4N	6M8-	dDw
9 nPEeor Cmb	: 671	- : 06	4SS:	- : S:	- : 6h	1M2N	dDw
9 nPEeor Cmb	: 071	1: SS	1N2h	1: 2h	1NN4	2M06	dDw
9 nPEeor Cmb	: N71	44: -	4206	4S60	420:	4M0	dDw
u r noEb cmb	1hS71	4h64h	464N1	401S:	46412	1M1N	dDw
u r noEb cmb	1hS72	14S- 1	14621	1- : S0	141N0	2M0:	dDw
u cdvr P	6S72	N: : Sh	: S4hh	NN0Nh	N: 01h	SMh	dDw
8 GhwDGhpmw	- 172	h4: -	h24-	h26N	h- - 4	2M1N	dDw
8 nTswwcmb	- : 72	11N1: 1	11N2- -	110- : 2	110: - :	SM4S	dDw
. Ghocmb	1S- 71	64- : h2-	02001- -	02- N2NS	6: N4: 0:	6M00	dDw
. Ghocmb	1S- 72	- - S- 0S0	- 2: - h0-	- 212NNh	- 20SShh	1M12	dDw
l ds Cocmb	4h71	4- S- Sh6	4N06416	4: S- 014	46: 4- : 6	0M2-	dDw
l ds Cocmb	4h72	14: : hN	1hS216	14- N46	14NSS0	2M44	dDw
l r PCcmb	N271	04	716	40	- h	1- 2M12	dDw
l r PCcmb	0072	6S	6-	0S	64	0MS	dDw
l r PCcmb	0N72	06	h0	6S	64	1hMN0	dDw
l dPdnC	2N71	12S- 21- S	12- 1h2h-	121S2N2S	121hSS6N	1M21	dDw
l dPr p	1S071	1S2h	1S: 2	1S: 2	1S0S	- M0S	dDw
l dPr p	1S: 71	1S2h	NhN	1ShS	: 0N	1SM06	dDw
l nocmb	2- 72	10: S2h	100N4-	10: 1: 2	10N6N6	SM41	dDw
l TpnCTcmb	N671	142S- 0	140404	1400h2	14h0h4	2M21	dDw
l TpnCTcmb	NN71	12h624S	12hNN41	124h64N	12h- h06	SM16	dDw
l mPVmp	- 471	261h- S	26SSh-	2hNNN-	26S1hh	SM11	dDw
Ar pecmb	1h: 71	: 16: 244	1S4N2h24	1S4h0- h6	1SS- 6- 0h	0M4N	dDw
Ar pecmb	1h: 72	4144N6:	42120- 6	41- : 106	416hh: -	SMN	dDw
AGs PRcmb	2S- 71	NhN	NhN	060	N2N	6M:	dDw
AGs PRcmb	2Sh71	2ShS	10N4	2S2h	1: h-	0M14	dDw
AdC	11N71	hh6S	h: 06	hSh:	hh- 2	NMS	dDw
AdS Cocmb	4071	- 406h:	- h6: 20	- h- - S0	- h26- 1	1M12	dDw
Rps Cocmb	2- N71	110S6	12SN:	12164	11: N0	2M8h	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S1	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq NS	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J46JS6	&sTsUdP u sb r J	14Sq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	h172	1- 14N4	1- 1Sh0	12NSN1	1- S2S0	1M42	dDw
YTTr pe omb	10271	0h20	06S2	06S2	0h00	SM10	dDw
YTTr pe omb	10272	- N60	- 662	- : - 4	- N21	- M01	dDw
YTTr pe omb	10671	6S4-	616N	6- - h	61N2	2M10	dDw
YTTr pe omb	10672	1- NS0	14141	1- 624	1- Nh0	1MN1	dDw
YTTpomb	N: 71	124: 42h6	1- h21h1:	1- 0hS116	1- 2hh2: 0	hMSh	dDw
YTTpomb	N: 72	1- : 4: 1-	1- 2: - N1	120h4Nh	1- - - 26S	4M4:	dDw
ZdCd	6672	- 021h	- 026:	- NSS1	- 04: h	1M10	dDw
ZqpdnComb	: S71	1204N	1- 04:	1- S1h	1- 10S	- M4	dDw
ZqpdnComb	: 171	26h:	2NSS	2010	202h	2M61	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 PtrCTI sb DPP t& J	9 ayq : S	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdPP usb r J	141q . FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	2072	160: S14	162- S- N	162024:	164- 1S1	1M1S	dDw
qCTb nCh	12171	- 12E	- 1N4	2N2E	- S4E	6M12	dDw
qpwr Ccd	0E72	EE: S	E61:	EESS	EE6:	1M11	dDw
Bspcmb	1- E71	2SSSSN	2S2- - 0	2S1E- :	2S12: E	SM4:	dDw
Bspcmb	1- 071	- E22- S	- 6SS10	- 6E22S	- E: 1EE	1M12	dDw
Br phPmb	: 71	1S11	: : 0	1S60	1S2E	- M62	dDw
Bcwb mTG	2S: 71	6: N2S1:	6: 0- 1S0	0S- 2S0-	6: : E0- -	SM4E	dDw
Bcwb mTG	2S: 72	- - : 24S:	- - 4ESS-	- 2444EE	- - 202N:	2M20	dDw
Bpmb cCr	N171	E: : -	61NE	606S	6- 1-	6M12	dDw
5 sob cmb	1SN71	60	0E	N-	0E	11M11	dDw
5 sob cmb	1S671	- 406	- 6S:	- 6S1	- E62	2M1S	dDw
5 sob cmb	11171	N4-	: 2E	N20	N6E	6M11	dDw
5 sPlcmb	4- 71	1SE0- 6	1SE4- S	1S61- S	1SE06E	SM-	dDw
5 sPlcmb	4471	1N4N1- N	1N: N: S2	1NE42- S	1N60S: S	1M4N	dDw
5 spenC	1271	4224NN0	4- ESS- -	44SNSNS	4- 20660	2M16	dDw
5 spenC	1272	E1E: 1	E1016	ES: - :	E141E	SMM1	dDw
5 GPmpcCr	- E71	24: 2- : S0	2: 212- 0E	- 2S- - - 40	2N02- 2S:	12M46	dDw
5 GPmpcCr	- E72	2- - 1N1	2- 006-	2- 002S	2- 6221	1M11	dDw
5 Gpmb cmb	E272	11E- N4	11E- : E	11- 220	11466:	1M8:	dDw
5 nesPT	E: 72	0- SNS	02E- 0	02- 4S	026E2	SM4-	dDw
5 nDDr p	6- 72	216011	21- - 2-	2144ES	214N2N	SMMS	dDw
&hwDpnwcmb	1E671	1646:	16: 2N	16N44	16040	1M46	dDw
&hwDpnwcmb	1E672	0- - 2	0S4E	02S:	01: E	2M8S	dDw
Fpecmb	16471	166- 6	16061	101N0	16N61	1M01	dDw
Fpecmb	16472	0SE2	666N	6: 1E	6N0:	2MM-	dDw
HsonPCcmb	16S71	100S4	102- 0	10E12	104N4	1M4	dDw
HsonPCcmb	16S72	N2E6	N10-	N1S6	N10N	SM12	dDw
KnPb cmb	16E71	: N0: 610	1S1N41NS	1S2- EE1-	1SS: : 00S	1M1S	dDw
KnPb cmb	16E72	4- 601- 2	44S14N:	41S2- : 0	42: S- - :	- MM1	dDw
tCocmb	11E71	021E- S0	0- S- 02N	0- E- 42:	02: SN21	SM16	dDw
tCocmb	11E72	: 610E1	: N6442	: 46SS4	: 640- -	2M11	dDw
tpnC	E472	- 01640-	- 0- 64S2	- 01E4SS	- 0220EN	SM12	dDw
tpnC	E672	60S642E6	661N200S	66226- : :	664: 1141	SM0E	dDw
tpnC	E072	1042641	104: E4E	10E2S62	104NSN-	SM2N	dDw
gphDTnC	N- 71	240	- S6	- 20	2: 4	14M11	dDw
Lr so	2S671	160420	16N0SN	16: S4:	16N- : E	SMM1	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DP t& J	9 ayq: S	&dPmTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP usb r J	141q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r s C	5 8 l . l &	RCdTw
Lr so	2S071	1- N1N1	141- : 1	141- E1	14S- SN	1M1	dDw
Lr so	2SN71	6EE4E:	6E4E42	6E40N0	6E4: 2:	SM80	dDw
LdTGmb	671	2E: S60:	26- 41: 0	260: S: 2	26- 46E6	1M0N	dDw
9 sk Cr wcmb	2472	1: 21: 1S	1N00E41	1N626EE	1NN0- 6N	1M0-	dDw
9 sCks Cr wr	EE72	0E4442	0ES4: -	04: S06	0E1- - 0	SM10	dDw
9 nPheor Cmb	: 471	4410	ESE1	46E:	40S:	6M0:	dDw
9 nPheor Cmb	: E71	2: 10	- 6S1	- 442	- - 2S	1SM0N	dDw
9 nPheor Cmb	: 671	- 026	4N1N	4- 26	42: S	12M0E	dDw
9 nPheor Cmb	: 071	21S:	2- 10	1N- 4	2SN6	11M02	dDw
9 nPheor Cmb	: N71	40- 4	EE- E	E606	E- 1E	: MEE6	dDw
u r nohb cmb	1ES71	21S: 0	21EEN	21164	2120-	1M10	dDw
u r nohb cmb	1ES72	6ESN	64NE	6EN2	6E2E	SM00	dDw
u cdvr P	6S72	6EN21	6E06N	646E:	6E416	1M8S	dDw
8 GhwDGhpmw	- 172	2110	1N: 2	24S:	21- :	12M11	dDw
8 nTswwcmb	- : 72	1S0S1-	1S- 4N6	1S2NSN	1S44- 6	2M16	dDw
. Ghocmb	1S- 71	022NE24	0264N0N	02SSE: 2	02- 1- - 1	SM4E	dDw
. Ghocmb	1S- 72	- 20S644	- 40: - 1-	- 2- 60S6	- - 2NNNN	- MIE	dDw
I ds Cocmb	4E71	4N04N16	4NS16: 6	4024NSS	4NSS4- 0	1MEE6	dDw
I ds Cocmb	4E72	14: 41:	1ES224	144: 4S	14N1: 4	1M12	dDw
I r PP Cmb	N271	ES	-	76	1E	1: 6M10	dDw
I r PP Cmb	0072	- S	4S	4-	- N	1NM6	dDw
I r PP Cmb	0N72	2:	4S	- -	- 4	16MN	dDw
I dPdnC	2N71	100: NEE:	10NS614N	10040221	100N- : 06	SM1N	dDw
I dPr p	1S071	100E	1NES	10: 2	1NS6	2M1N	dDw
I dPr p	1S: 71	1- 2E	1N: 2	1642	162S	10MEE4	dDw
I nocmb	2- 72	1- E02N	1- 60NN	1- 6- SS	1- 6202	SM:	dDw
I TpnCTcmb	N671	002: N	N1E02	0: N0S	0: ENS	2M0S	dDw
I TpnCTcmb	NN71	6N4S1E	6N: SE0	6NSSN4	6N4- NE	SM06	dDw
I mPVmp	- 471	2400: 2	24E- : E	240S- 6	246041	SMES	dDw
Ar pecmb	1E: 71	1S- 142EE	1S42: N1-	1S2ENS44	1S- - 4S- 0	SMME	dDw
Ar pecmb	1E: 72	41- - E0-	4- 21- - -	4SNE- 42	41NSSN-	2M1N	dDw
AGs PPcmb	2S- 71	11ES	1142	11EN	11ES	SM02	dDw
AGs PPcmb	2SE71	2E60	2NS:	20ES	20S:	4M06	dDw
AdC	11N71	NE2N	N661	0N- 6	N- 42	EM1	dDw
AdS Cmb	4071	46: : NN	4642N:	466N62	460S46	SM01	dDw
Rps Cmb	2- N71	- 206N	- - 4- 6	- 2E4-	- 2: 16	1M41	dDw

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Inst Id :P8

LB umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse l sb DPP t& J	3 - 4- - 7S2	tOwTpmb Or Tu sb r J	8 N
5 Pr CTI sb DPP t& J	9 ayq : S	&dPnTcnC UsdTnpJ	1
&sTr i Adb r qdOmpr o J	2S2- 7S0712 1: J4: JS1	&sTsUdP u sb r J	141q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
ysCsoomb	E172	11EESN	11E- 40	11ENEE	11EE0S	SM22	dDw
YTTr pe omb	10271	4- : -	46S1	4: - 4	464-	EMM:	dDw
YTTr pe omb	10272	262-	2E10	244E	2E2N	- MM4	dDw
YTTr pe omb	10671	4SE1	4NS:	4426	442:	NMM0	dDw
YTTr pe omb	10672	122ES	1- 0- S	1- - : S	1- 12-	EMS	dDw
YTTpomb	N: 71	1- 640ES4	1- 6- 4- - S	12: EESS2	1- 41220N	2MME	dDw
YTTpomb	N: 72	120E: 06	14E41- 2	1- 62: 4S	1- 64- 4:	6MM-	dDw
ZdCd	6672	- 6660	- 6- SS	- 6- - S	- 64- 2	SMM6	dDw
ZqpdnComb	: S71	N4E-	N1- 6	N12N	N2- :	2M2E	dDw
ZqpdnComb	: 171	1N2E	1N- 4	10N4	1N14	1M4N	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd : 1	T &biqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d &be q dpe	2072	12- a2- S	11: - aSu	12SSa4:	12S: 06-	1Rua	Qt l
d . iqe C. E	12171	u: 2	1Sau	1S60	1SS6	: Ru2	Qt l
d ll p. qO	0a72	- 20u	- 1: 0	- 120	- 2SS	2R 6	Qt l
Bwldpe	1- a71	11S44u	11Sa1u	11222:	111S6a	SR 1	Qt l
Bwldpe	1- 071	1: 0016	1: u: aS	1: : 12u	1: ua: u	SR :	Qt l
BplE&&pe	: 71	6u4	602	6a1	66:	2R40	Qt l
Bdqe biG	2S: 71	6: 0011-	0S- 01- a	6u1- 0a:	6: 4266:	1R60	Qt l
Bdqe biG	2S: 72	- - a60a1	- - - 01- u	- - - : 2u6	- - 44- : 2	SR 2	Qt l
BlCe q p	u171	4: 06	a1u4	a606	a20:	6Ru1	Qt l
9 wne dpe	1Su71	42	60	au	a6	22R 1	Qt l
9 wne dpe	1S671	- 0a:	- a06	- a: 2	- 642	2R0u	Qt l
9 wne dpe	11171	a6u	a: u	61S	a: 2	- R01	Qt l
9 w&Qdpe	4- 71	40ua0	40u- 0	40uS:	40u- 4	SRSa	Qt l
9 w&Qdpe	4471	uS2061	uS041u	uS6: 20	uSa0S2	SR 2	Qt l
9 wlr C.	1271	2u2S- 2a	2u0a06u	2ua: uu2	2ua1: : 2	1RSS	Qt l
9 wlr C.	1272	- - : 0-	- - 6: u	- - - : 0	- - 6u:	SRu6	Qt l
9 G&Clq p	- a71	2624u20:	- S604: 0S	- - - 0: aaS	- S1SS: - -	11R 6	Qt l
9 G&Clq p	- a72	2- : S24	2- : - : 6	240: 46	242122	2RSu	Qt l
9 GlCe dpe	a272	6u: 2u	606u:	6uS4u	6u222	SR -	Qt l
9 Cr w&	a: 72	4640:	4aaS:	4a: 14	4a: 60	1RS6	Qt l
9 Ct t pl	6- 72	12: 1S1	126: ua	120a01	120uu6	SRua	Qt l
TEl t lCl dpe	1a671	1Su01	12Sa6	1111-	11- 40	aRa1	Qt l
TEl t lCl dpe	1a672	aS44	4: S4	4: au	4: 6:	1R42	Qt l
Ulr dpe	16471	11640	11640	12414	11: S-	- R02	Qt l
Ulr dpe	16472	46- 1	46u1	40: u	40S-	1Ru2	Qt l
HwnC&q dpe	16S71	11: - :	11u22	110u1	11u40	SR6:	Qt l
HwnC&q dpe	16S72	a61u	a62a	aa6u	a6S-	SRaa	Qt l
KC&e dpe	16a71	: u6a: 61	1S1111a:	1S122u: u	1SS- - - - :	1R4a	Qt l
KC&e dpe	16a72	4- aaSuu	422S044	4102- ua	424: 4S6	2R2-	Qt l
& ndpe	11a71	0- 2064-	0- 414a1	0- 11: 02	0- 20S22	SR2S	Qt l
& ndpe	11a72	: 6- 4S1	: 40464	: aS12:	: a- 66a	SR S	Qt l
&C.	a472	20: 0a2-	2u11626	20a: 40-	20u: a41	SR 0	Qt l
&C.	a672	aS: u14aa	aS: S04: 1	4: 01ua: 4	aSa- au40	1R4S	Qt l
&C.	a072	12Su011	12S4u: -	11u- S4:	11: uuu4	1R1a	Qt l
gIEt iC.	u- 71	2: 2	2u:	2: 2	2: 1	SR04	Qt l
Lpwn	2S671	- 4: : 2	- 46- S	- 4aS0	- 401S	SR0-	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd: 1	T&piqC. MwOlCl J	1
Twip A cqe p d Qobdqpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S071	2u242	2u6S4	2u04:	2ua- 2	SR 1	Ol l
Lpwn	2Su71	1- aa6:	1- - 1a6	1- - : 2S	1- 421a	SR 2	Ol l
LqiGdpe	671	26aS4u4	26uSuS-	2a: 4- 02	2641uu6	1R66	Ol l
y wk. pl dpe	2472	1- a: 224	1- 20uSu	1- S42a:	1- - S4- S	2RS0	Ol l
y w. kw. pl p	aa72	a6: u- 2	aa: 2: 6	a4: 20S	aa: 466	1Ru4	Ol l
y O&Er np. be	: 471	04u6	60ua	606u	0S1-	aRu4	Ol l
y O&Er np. be	: a71	2uS:	2: 10	2u- 4	2ua-	1R :	Ol l
y O&Er np. be	: 671	4- S:	41a1	4- 60	4206	2R62	Ol l
y O&Er np. be	: 071	1: aS	10SS	10: 2	1u14	6R 0	Ol l
y O&Er np. be	: u71	4: 4-	44: -	46a1	46: a	4Ru6	Ol l
mpOnEe dpe	1aS71	14a- a	1- : 04	1446u	14- 26	2R14	Ol l
mpOnEe dpe	1aS72	4200	4141	4201	42- S	1Ru2	Ol l
mqOvp8	6S72	4aS0u	4a20a	44064	4aS- :	SRa0	Ol l
NGOl t GOlbl	- 172	1a: 2	1a10	16: 2	16SS	aR4:	Ol l
NOiwl l dpe	- : 72	a- u4-	a11u-	a2421	a24u2	2Ra4	Ol l
F GOndpe	1S- 71	0- u6S41	0- S- : - 6	01: ua- 0	02: 6101	1R2:	Ol l
F GOndpe	1S- 72	- 2: 24uu	- 2u6au:	- 26S4: -	- 20: ua6	SRa2	Ol l
DOw. ndpe	4a71	4046a60	4uS0u01	4ua- a26	4uS26aa	1R12	Ol l
DOw. ndpe	4a72	1400- 6	146u4:	14- 01u	1461S1	1R44	Ol l
Dp&p. dpe	u271	726	1S	2-	2	121aR4S	Ol l
Dp&p. dpe	0072	1-	1-	20	1u	4- R -	Ol l
Dp&p. dpe	0u72	2-	2a	- 2	20	10R02	Ol l
Dq&qC.	2u71	1- a24- - u	1- - 4u2- a	1- 2u- 006	1- - ua4aS	SR -	Ol l
Dq&pl	1S071	6: 2	6: 2	02a	0S-	2R04	Ol l
Dq&pl	1S: 71	aaS	6SS	610	au:	aRu:	Ol l
DOndpe	2- 72	4uu- 2	40u12	4u2Sa	4u2u-	1RS0	Ol l
DilC. idpe	u671	2au24	261Su	2601u	26210	1R04	Ol l
DilC. idpe	uu71	22S: a0	226- - a	222: a6	22- 416	1R22	Ol l
Db&bl	- 471	220S: -	22a: 2-	22aS4-	226S2S	SR4a	Ol l
cplr dpe	1a: 71	1S246421	1S- - 6: : -	1S11u10S	1S2- - u62	1RS0	Ol l
cplr dpe	1a: 72	424114u	4S: a- : 0	4S6S4uu	41- 2- 44	2R 2	Ol l
cGw&pe	2S- 71	060	0u-	u42	0: 0	4R 4	Ol l
cGw&pe	2Sa71	1010	10SS	10aS	1022	1R4u	Ol l
cq	11u71	26aS	2442	2a- 4	2a42	4R1	Ol l
cqiw. dpe	4071	416: 10	4S: - : 2	4144a-	41- au0	SR -	Ol l
5 lw. dpe	2- u71	14Sau	14160	1422a	141aS	SR6S	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB mbe r pl J	LB1264S0	3 t plwiCl J	swl Pw8
Lwr Dwe t &p &T J	3 - 4- - 7S-	& l ilbe . pi mwe p J	Nu
9 &p. i Dwe t &p &T J	y shd : 1	T &piqC. MwOlCl J	1
Twip A cqe p d Qobdpn J	2S2- 7S0712 1: Ja2JS1	TwiwMd&p mwe p J	142d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qpl
hw. wndpe	a172	0: u21	0: : : 2	0: 6S0	0: uS0	SR24	Ol l
Yiiplr dpe	10271	- 4: 2	- - a:	- 642	- 4: u	4RSa	Ol l
Yiiplr dpe	10272	1a02	1au:	10SS	162S	4R2:	Ol l
Yiiplr dpe	10671	- a06	- aS1	- - u4	- 4u0	2R00	Ol l
Yiiplr dpe	10672	121a6	12a4a	124: a	12- : :	1R01	Ol l
Yiildpe	u: 71	1- - 6- - 16	1- 4u- a44	1- 2u: - u6	1- - 0u04:	SR0-	Ol l
Yiildpe	u: 72	1- Sa6u-	1206u1S	12061- S	12u62Su	1R 1	Ol l
Zq O	6672	1u606	1u- a:	1u- 6:	1u46u	SR u	Ol l
ZdlOC. dpe	: S71	14a- -	1- a: :	1- 0: :	1- : 00	- Ra2	Ol l
ZdlOC. dpe	: 171	- 4S1	2: : 2	2: - 4	- 1S:	uR u	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwOICI:a	1
Twip:A:cqe p:dOobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
d8be q dpe	20 2	1u4SJ0	1u7602	1u7- S7	1u7S27	SR47	Ot I
d. iqe C. E	121 1	27SS	2242	2410	2- u6	7R7-	Ot I
dIl p. qO	07 2	1S41	1S- 0	1S1J	1S- 2	1R14	Ot I
Bwldpe	1- 7 1	10Su62	10S4J1	102467	10120-	SR61	Ot I
Bwldpe	1- 0 1	2J7422	- S11J7	2J07- 6	2JuS71	SR3u	Ot I
BplE8dpe	J 1	1070	16u6	10SJ	1010	2R12	Ot I
Bdqe biG	2SJ 1	66u6- 4u	64- - u- 2	6u4J4SJ	66767- S	- R17	Ot I
Bdqe biG	2SJ 2	- - - 4uJ1	- 2042- J	- - u- 4JJ	- - - Su06	1R64	Ot I
BIOe q p	u1 1	44J-	4J7J	47u4	460J	7R2J	Ot I
9 wne dpe	1Su 1	7u	01	u-	01	10R67	Ot I
9 wne dpe	1S6 1	- 642	- 606	- JS1	- 0- J	- R06	Ot I
9 wne dpe	111 1	u1J	0uJ	6u6	067	JR14	Ot I
9 w8Odpe	4- 1	- 400JS	- 4u- 44	- 47010	- 402u4	SR4S	Ot I
9 w8Odpe	44 1	7J76SS7	7J647SJ	7uuuuJ2	7J- 646u	SR0S	Ot I
9 wIr C.	12 1	26Su11S	26- 01JS	262u06-	26246uu	SR70	Ot I
9 wIr C.	12 2	- 10S1	- 161u	- Su7S	- 1- JS	1R7S	Ot I
9 G8Clq p	- 7 1	277666S-	2J- 4SJS1	- 1471J12	2u0u6402	1SR 6	Ot I
9 G8Clq p	- 7 2	220JJ0	2- 2411	2- 474-	2- 167S	1R44	Ot I
9 GIOe dpe	72 2	24077	24204	2- u2-	242u4	1R12	Ot I
9 Or w8	7J 2	JJ6S	1S4J4	1S7S0	1S- 2S	- RS2	Ot I
9 Ot t pI	6- 2	22- S4	2222u	21u10	22116	1R1J	Ot I
TEI t IOI dpe	176 1	4- 7S7	461- S	47001	471- 7	- R17	Ot I
TEI t IOI dpe	176 2	1u0u-	1u70-	1u41J	1u7J2	SR3u	Ot I
UIr dpe	164 1	- - 127	- - - 42	- - 260	- - 247	SR -	Ot I
UIr dpe	164 2	12uu-	12066	1- 200	12J07	2RS6	Ot I
HwnO8q dpe	16S 1	- JS41	- uS22	- J61u	- uuJ4	2RSu	Ot I
HwnO8q dpe	16S 2	10Ju6	1u24J	1uSSJ	1uSu1	SR01	Ot I
h O8e dpe	167 1	Ju0J026	J1J7J16	J62- 1u6	J766206	- R61	Ot I
h O8e dpe	167 2	42u7Ju6	4214J27	4- 61S77	42u0- 22	1R0S	Ot I
& ndpe	117 1	6JuS47S	6076SJ6	0S706- 6	6J- 1- J4	2R26	Ot I
& ndpe	117 2	Ju24u0	J07J1J	Ju1- 74	J0JJ2S	SR 6	Ot I
&C.	74 2	JS71u-	J12106	J1S407	JSJ20u	SR4S	Ot I
&C.	76 2	1006SJ16	1002J4- u	106JJ1S2	1002Ju1u	SR10	Ot I
&C.	70 2	41u6u-	41664J	414- - u	416770	SR72	Ot I
KIEt iC.	u- 1	- 11	2u4	- S0	- S1	4R16	Ot I
Lpwn	2S6 1	12077S	1- 107-	12u66S	12J- 21	1R6u	Ot I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pIwiCI:a	swI Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& I iIbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwOICI:a	1
Twip:A:cqe p:d Qobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qI
Lpwn	2S0 1	1S747-	1S7u46	1S701u	1S7602	SR1J	Ol I
Lpwn	2Su 1	4JJS1-	7S- Ju1	4JJJu0	7SSJJ4	SR7-	Ol I
LqiGdpe	6 1	270241S	2- J16J2	2766S- 7	271SS46	4RSJ	Ol I
y wg. pl dpe	24 2	0200uS	021- 4-	0- 2S6J	020S64	SR04	Ol I
y w. gw. pl p	77 2	- 7u0- 6	- 61416	- 7JS- 1	- 7J02u	SR41	Ol I
y C8Er np. be	J4 1	14707	146Su	14- JJ	14720	SR00	Ol I
y C8Er np. be	J7 1	44- 4	4726	461u	4726	2RS-	Ol I
y C8Er np. be	J6 1	60- 7	6u20	661S	6024	1R62	Ol I
y C8Er np. be	J0 1	2J60	2JSJ	2J10	2J- 1	1RSu	Ol I
y C8Er np. be	Ju 1	0S00	0100	0272	016J	1R2-	Ol I
mpOnEe dpe	17S 1	uS40-	u216-	u1u62	u17SS	1R11	Ol I
mpOnEe dpe	17S 2	24SJu	24J- 0	242JJ	24447	1R0J	Ol I
mqOkp8	6S 2	4641	7121	71Su	4J76	7R72	Ol I
NGOI t GOIbI	- 1 2	14SS	1242	1- J2	1- 47	6R6-	Ol I
NOiwI dpe	- J 2	1407- 4	1466Su	146201	146uS4	SR47	Ol I
F GOndpe	1S- 1	6JS6441	6uSJ447	6u627- u	6u7J407	SR01	Ol I
F GOndpe	1S- 2	- 4S1- - u	- - - 0Su7	- - J1uu6	- - 0606J	1RS-	Ol I
DOw. ndpe	47 1	44u170u	4- - 4S- 1	472uu07	444u161	2R2u	Ol I
DOw. ndpe	47 2	140S07	14JSu-	14JS- 4	14u- J0	SR00	Ol I
Dp8p. dpe	u2 1	62	40	- 4	4u	- SRS2	Ol I
Dp8p. dpe	00 2	11S	1SS	1S0	1S6	4Ru2	Ol I
Dp8p. dpe	0u 2	6J	u2	6S	0S	17R02	Ol I
Dq8qOC.	2u 1	02uuJ26	010u401	01- 7Su2	02SSu26	1R1S	Ol I
Dq8vpI	1S0 1	JSS	u60	1Su-	J7S	12R2u	Ol I
Dq8vpI	1SJ 1	1SSS	J42	07S	uJ0	14R7u	Ol I
DOndpe	2- 2	4- 22-	4- 741	42046	4- 10S	SR1-	Ol I
DiIC. idpe	u6 1	074S4	0- J6-	06S24	071- S	1R41	Ol I
DiIC. idpe	uu 1	644471	672071	671J4J	64J010	SR0S	Ol I
Db8bI	- 4 1	27S67J	2661JJ	20JS4S	2672JJ	7R 6	Ol I
cpIr dpe	17J 1	J0147S7	J7- 020J	J000S44	J606206	1R2J	Ol I
cpIr dpe	17J 2	41S0JuJ	424SJu4	424J2u0	41JJ42S	1RuJ	Ol I
cGw8bpe	2S- 1	1- 10	12Su	JJ2	1102	14R12	Ol I
cGw8bpe	2S7 1	2uSJ	2J42	27SS	207S	uR24	Ol I
cq	11u 1	06u6	0J7-	u161	0J- -	- RSS	Ol I
cqiw. dpe	40 1	20061J	206201	20- 7u0	207u26	SR04	Ol I
5 Iw. dpe	2- u 1	- 2141	- - - u6	- - - 47	- 2J70	2R17	Ol I

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t plwiCl:a	swl Pw8
Lwr :Dwe t 8p:&T:a	3 - 47S S1	& l ilbe . pi:mwe p:a	Nu
9 8p. i:Dwe t 8p:&T:a	y h SMS1	T8piqC. :MwOlCl:a	1
Twip:A:cqe p:dQobdpn:a	2S2- S0 12:1Ja77a-6	TwiwMt8p:mwe p:a	14- dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qil
Vw. wndpe	71 2	10S44	10470	16000	10SJ-	2RS1	Ol l
Yiiplr dpe	102 1	Ju62	1SS- 0	J462	J0u0	- RS1	Ol l
Yiiplr dpe	102 2	4JS0	4647	466u	404S	- RS6	Ol l
Yiiplr dpe	106 1	04J4	0611	0400	0720	SR10	Ol l
Yiiplr dpe	106 2	14uS-	14627	140- 1	1402S	SR61	Ol l
Yiildpe	uJ 1	1- 160260	12J16- S2	1- 22u4- 4	1- 1S4SS1	1R26	Ol l
Yiildpe	uJ 2	1- 46- u1	14202u4	142JSJ7	14SSJ2S	- R0	Ol l
Zq O	66 2	- S426	2JuJu	2J11-	2Ju1-	2R22	Ol l
ZdlOC. dpe	JS 1	- 246-	- - 7u-	- 2- 22	- 20uJ	2R11	Ol l
ZdlOC. dpe	J1 1	0244	0200	0272	027u	SR24	Ol l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t N:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t N:&T:a	y h SMS7	T qbiqC. :M OCI:a	1
TI ip:A:cqe p:dOobqpn:a	2S2- S0 12:1Ja7sa-0	TI il MqN:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 uD1	9 uD2	9 uD-	9 uDy pl .	9 uDF DT	5 . qP
dNe q qpe	20 2	10J4sJ	10020s	1s1s- s	10J7- 7	1R20	OI P
d. iqe C. E	121 1	1J7S	2S27	22- 4	2S0S	0RSJ	OI P
dIPp. qO	07 2	J7S	s71	JJ0	J- -	0RJJ	OI P
BI lqpe	1- 7 1	1s1Ss0	1s41SS	1s22- 7	1s2404	SR3-	OI P
BI lqpe	1- 0 1	- 1s777	- 2J11J	- 24S2S	- 2- sJs	1R6-	OI P
BpIENqpe	J 1	1JSS	1s0S	1Js1	1J10	- RSS	OI P
BqPe biG	2SJ 1	07s2S0s	04- 2S- 4	6J7S060	0- 21626	4R7S	OI P
BqPe biG	2SJ 2	- - 7422s	- - 6JJ- s	- S4SSSs	- 274027	7R02	OI P
BICe q p	s1 1	71SJ	4s4-	7SS1	4Js4	2R6J	OI P
9 I ne qpe	1Ss 1	0J	ss	0J	s2	7R30	OI P
9 I ne qpe	1S6 1	41S1	4471	- J71	4160	6R16	OI P
9 I ne qpe	111 1	027	046	sS6	07J	7R7-	OI P
9 I NQqpe	4- 1	47S114	46Ss4-	47220J	474412	1R27	OI P
9 I NQqpe	44 1	07- SS- 2	0JS07- 0	06JSS67	00SJ211	2R46	OI P
9 I Ir C.	12 1	262- 1s-	20S- J24	20112- 6	260J44s	1R32	OI P
9 I Ir C.	12 2	- 2ss0	- 16s7	- 1626	- 2S66	2R22	OI P
9 GNCIq p	- 7 1	2746- 141	2J6J61J7	- 17s12Ss	2sJ1- 717	1SR34	OI P
9 GNCIq p	- 7 2	2- 107J	2- 4S- 6	24S1- 7	2- 7- 1S	1R34	OI P
9 GICe qpe	72 2	24ss7	24sJs	27SsJ	24J70	SR46	OI P
9 Cr I N	7J 2	1S0- 0	1Ss- 4	1Ss11	1S0J4	SR40	OI P
9 Ct pI	6- 2	217sS	21706	22- 04	21s44	2R1S	OI P
TEPt ICPqpe	176 1	716J-	7S147	717- 4	71124	1R60	OI P
TEPt ICPqpe	176 2	21S2S	2SJ6S	2SJ- S	2SJ0S	SR22	OI P
UIr qpe	164 1	- 7024	- 466-	- 64s4	- 762-	2R70	OI P
UIr qpe	164 2	14611	144S7	14214	1441S	1R s	OI P
HI nCNqqpe	16S 1	411s1	42s44	42061	42262	2R22	OI P
HI nCNqqpe	16S 2	2S42J	2S102	2S0S6	2S4- 6	1R 1	OI P
h CNe qpe	167 1	1S07- sS1	1S- 6S- S1	1S1s60- S	1S4- - 611	2R0s	OI P
h CNe qpe	167 2	4- 44S61	4- J1S01	4S1S07J	424s6- S	4R3s	OI P
& nqpe	117 1	001s- J6	06J1SS0	044S402	0616627	2RS1	OI P
& nqpe	117 2	JJSJ7-	JJ4610	sJJJs0	J61s72	7R70	OI P
&C.	74 2	s6- 2Ss	s7s64-	s0S0J6	s64216	SR01	OI P
&C.	76 2	160J047S	16sS2Js6	16J7S6Ss	16s7S- 4s	SR72	OI P
&C.	70 2	- J67J4	- J0224	- JsJ4s	- J07ss	SR 1	OI P
KIEt iC.	s- 1	- 66	- 1S	- S4	- 20	1SR74	OI P
LpI n	2S6 1	120164	12- JSJ	12sJ41	126602	2RS1	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCI:a	wI P8I N
LI r :DI e t Np:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Np. i:DI e t Np:&T:a	y h SMS7	TdNiqC. :M OCI:a	1
TI ip:A:cqe p:dOobdqpn:a	2S2- S0 12:1Ja7sa-0	TI il MdNp:mI e p:a	144dF UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
LpI n	2S0 1	Js4S7	JJSSJ	1S1- 2S	JJ70s	1R77	OI P
LpI n	2Ss 1	4s7616	4sSJs1	4sJ0- 1	4s744-	SR1S	OI P
LqGdpe	6 1	20SJS60	2660704	26S0216	26612s6	1R12	OI P
y I g. pPdpe	24 2	sSs017	sSS41S	s1242-	sS01s2	SR06	OI P
y I . gI . pPp	77 2	4S77SJ	4S0J44	411- 06	4Ss200	SR02	OI P
y CNEr np. be	J4 1	12Js1	126- J	1- S76	12sJ2	1R02	OI P
y CNEr np. be	J7 1	- - 60	- 242	- 471	- - 7-	- R1-	OI P
y CNEr np. be	J6 1	76S1	774-	4JJ-	7- 0J	6R24	OI P
y CNEr np. be	J0 1	2107	2S42	21J2	21- 6	- Rs7	OI P
y CNEr np. be	Js 1	771S	7s- 7	711s	74s0	6R74	OI P
mpOnEe dpe	17S 1	sJJ66	JSS26	J1Ss2	JS- 7s	SR6J	OI P
mpOnEe dpe	17S 2	2067J	202- 1	207Ss	20466	SR0J	OI P
mqOkpN	6S 2	4s71	4664	4J41	4s1J	2R1-	OI P
uGOPt GOIbP	- 1 2	1442	1- Ss	1- SS	1- 7S	7R3J	OI P
uOI PPdpe	- J 2	14- 00s	146s0s	14J41s	1466J1	1R1-	OI P
FGOndpe	1S- 1	0sS72- J	0627040	0- 4S7- S	07JS7S7	- RSJ	OI P
FGOndpe	1S- 2	- 4- 746s	- 4S02sJ	- S46s01	- 2J674-	6R70	OI P
DOI . ndpe	47 1	7Ss- S00	7140202	4s40s76	7S26S6J	- R14	OI P
DOI . ndpe	47 2	14s062	14JSS-	1- s774	1474- J	4R1S	OI P
DpNp. dpe	s2 1	2S	02	77	4J	74R0	OI P
DpNp. dpe	00 2	1SS	J0	12S	1S6	11R37	OI P
DpNp. dpe	0s 2	J-	61	J-	s2	22R44	OI P
DqNOC.	2s 1	0J7s- 1s	s1JJs0S	sSsJ167	sSs2471	1R7S	OI P
DqNpI	1S0 1	042	ss-	s07	s- -	JR74	OI P
DqNpI	1SJ 1	6J2	s27	6- -	010	1- R01	OI P
DOndpe	2- 2	4- s16	47740	4- 0s-	44- s2	2R20	OI P
DiIC. idpe	s6 1	s- 010	s7sss	s62J1	s72JJ	1R62	OI P
DiIC. idpe	ss 1	0- 4sS7	07SS01	0714s7	04747-	1R24	OI P
DbNbI	- 4 1	20J- J0	2sS2J1	2s- 4JS	2s1S7J	SR00	OI P
cpIr dpe	17J 1	111- 17S-	1Ss- 24JJ	1S- S0276	1S070Ss6	- Rss	OI P
cpIr dpe	17J 2	4204sJS	4- 6S0- 1	- s66471	4160- 70	6R 4	OI P
cGI Npe	2S- 1	11- -	117S	1160	117S	1R47	OI P
cGI Npe	2S7 1	- 110	26- 4	2ss4	2s0s	sR4S	OI P
cq	11s 1	- 202-	- - - 41	- - 607	- - 240	1R47	OI P
cqI . dpe	40 1	26227S	20SJ7-	26- 2- J	2674sS	1R0J	OI P
5 II . dpe	2- s 1	- 404S	- 6- S2	- 70J-	- 7612	2R24	OI P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:a	LB1264S0	3 t pII iCl:a	wI P8 I N
LI r :DI e t Nb:&T:a	3 - 47S S2	& FIIbe . pi:mI e p:a	us
9 Nb. i:DI e t Nb:&T:a	y h SMS7	Tdbiq C. :M OCl:a	1
TI ip:A:cqe p:d Qobdqpn:a	2S2- S0 12:1Ja7sa-0	TI il MdbN:mI e p:a	144d F UMRn

ul II e pipl	y I PP	9 u D1	9 u D2	9 u D-	9 u Dy pl .	9 u DF DT	5 . qP
VI . I ndpe	71 2	16s4S	16JsS	160s0	16s6J	SR7J	Ol P
Yiiplr dpe	102 1	1SS21	1S101	Js74	1SS17	1R7s	Ol P
Yiiplr dpe	102 2	71J6	7S4S	71S1	7112	1R7-	Ol P
Yiiplr dpe	106 1	0s1J	sS7-	s111	0JJ4	1R4-	Ol P
Yiiplr dpe	106 2	17- 2S	17SJs	14264	14sJ4	- R04	Ol P
Yiild pe	sJ 1	14711J42	14- 2212s	14SS6670	142sS242	1R0J	Ol P
Yiild pe	sJ 2	1464407	147646s	1- S0s- S	14SJ7J1	6R26	Ol P
Zq O	66 2	22s- 2	22J77	22J6J	22J1J	SR-	Ol P
Zd OC. dpe	JS 1	2sJ40	2J- JS	2Js04	2J4S4	1R7s	Ol P
Zd OC. dpe	J1 1	7J06	6J72	6s00	66S2	sR22	Ol P

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or TusB r:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUS6	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCcmb	20 2	47620	44776	47716	472- -	1M1S	dDw
qCTb nCh	121 1	4- -	460	6- -	711	2SM46	dDw
qpwr Ccd	07 2	2E-	2NS	267	20E	7M52	dDw
Bspcmb	1- 7 1	42E61	446N-	42- 27	4- - 2-	2M02	dDw
Bspcmb	1- 0 1	066SS	06026	06117	064N1	SM42	dDw
Br phPmb	E 1	6N1	6N0	0- S	0SS	- M0E	dDw
Bcwb mTG	2SE 1	024S6E2	02NN244	010- 4- E	02- 4127	SMMS	dDw
Bcwb mTG	2SE 2	- S1S622	2EN7644	- S402E-	- S1472S	1M3-	dDw
Bpmb cCr	N1 1	44- 4	47N4	477E	4726	1M0N	dDw
5 sob cmb	1SN 1	21	01	27	- E	01M4	dDw
5 sob cmb	1S6 1	41N4	- E- 4	4SN4	4S60	- M3E	dDw
5 sob cmb	111 1	774	4EN	766	7- E	6M02	dDw
5 sPlcmb	4- 1	1- - 27S	1- 4124	1- - 07S	1- - 0SN	SM-	dDw
5 sPlcmb	44 1	22E72S7	2- 7S61-	2- - 7- E6	2- 20S01	1M4-	dDw
5 spenC	12 1	2442- SE	2461- 6S	2472SS7	2471NE1	SMIE	dDw
5 spenC	12 2	2NE6-	2N60E	2ESS4	2NNN2	SM01	dDw
5 GPnpcCr	- 7 1	27- 00107	2E4SN076	- 1E7- 216	2NE1- S4E	11M40	dDw
5 GPnpcCr	- 7 2	2- 2S- N	2- 1466	24- 42N	2- 7644	2M06	dDw
5 Gpmb cmb	72 2	- NSE	20- S	2N04	- 1- N	1NM0N	dDw
5 nesFT	7E 2	27ES	2444	20S4	270E	7M36	dDw
5 nDDr p	6- 2	7201	7- 24	7- EN	7- - 1	1M1E	dDw
&hwDpnwcmb	176 1	177E-	1706S	17- 26	1777E	1M41	dDw
&hwDpnwcmb	176 2	6- N7	620N	64S7	6- 76	1M30	dDw
Fpecmb	164 1	12276	11N- 1	11002	11E7-	2M21	dDw
Fpecmb	164 2	4644	4661	4014	460-	SM0N	dDw
HsonPCcmb	16S 1	1- - S0	1- - 4E	1- 6E1	1- 44E	1M70	dDw
HsonPCcmb	16S 2	66NN	6267	6407	6406	- M20	dDw
y nPb cmb	167 1	1S4- SS40	1S4711- 0	1S- NN4N1	1S42- 222	SM1	dDw
y nPb cmb	167 2	- 07- 44E	4SS21NN	- N24122	- N7EE2S	- M2	dDw
tCocmb	117 1	004- EES	06N2- S7	00E7221	004S7S6	SM0-	dDw
tCocmb	117 2	N6E1E4	ES4N1E	NN1- SS	NN71S4	2M37	dDw
tpnC	74 2	2NE7- -	2N0404	2E477S	2ES71E	1M27	dDw
tpnC	76 2	7N207E2	762E0E1	76N7SS0	70141- S	1M0E	dDw
tpnC	70 2	1- - 20E	1- 1101	1- - ES0	1- 20N7	1M3N	dDw
KphDTnC	N- 1	2E2	272	- S7	2N-	EM0N	dDw
Lr so	2S6 1	27S41	27- S-	27- 40	272- S	SM06	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 47S S-	tOwTpmb Or T.usb r :J	8 N
5 PrCTI sb DPP:t&:.J	9 y SUS6	&dPmTcnC:UsdTnp.J	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:usb r :J	147q. FUM

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	1E706	2S4- -	1EEN2	1EEE0	2M14	dDw
Lr so	2SN 1	E617-	EN-74	E670S	E0S26	1M2S	dDw
LdTGmb	6 1	26SESE4	2702601	27N17N1	27N00N2	SM0-	dDw
9 sgOr wcmb	24 2	214712	2S6E26	2161N1	21274S	2M12	dDw
9 sOgsOr wr	77 2	2S2N41	1E717E	1EE760	1EE1NE	1M44	dDw
9 nPheor Cmb	E4 1	- ESE	42E2	404-	4- 17	EM60	dDw
9 nPheor Cmb	E7 1	1007	1N10	1E- 4	1N42	4M46	dDw
9 nPheor Cmb	E6 1	2210	2160	2- - 4	22- E	- M12	dDw
9 nPheor Cmb	E0 1	1S10	E- -	E07	E07	4M20	dDw
9 nPheor Cmb	EN 1	27N4	267E	2660	26- 6	1M04	dDw
u r nohb cmb	17S 1	274EN	260SS	26S72	26SN-	2M11	dDw
u r nohb cmb	17S 2	0N- E	0006	0ES2	0N- E	SMM1	dDw
u cdkr P	6S 2	N40	NE0	E7-	NEE	7M44	dDw
8 GhwDGhpmw	- 1 2	427	4N-	442	47S	6M6N	dDw
8 nTswwcmb	- E 2	42SE7	- EE22	4121N	41S0E	2M06	dDw
. Ghocmb	1S- 1	00- - N4E	001SNNS	06466E6	06E0142	SM7E	dDw
. Ghocmb	1S- 2	2E0- 767	- SES07S	- S- N770	- S- 42E1	1M4-	dDw
I dsCocmb	47 1	4ES1ES-	4NE4S- S	4ESSN67	4NENE- -	SM3E	dDw
I dsCocmb	47 2	12N- - 4	1- 7NE1	1- 1- 67	1- 1N6-	2MMN	dDw
I r PCcmb	N2 1	14	NS	- 2	42	N1M7	dDw
I r PCcmb	00 2	20	2-	4S	- S	2EM4S	dDw
I r PCcmb	0N 2	2N	- -	20	2E	1SM46	dDw
I dcdnC	2N 1	- 217S47	- 1E022S	- 2S2642	- 2S4E6E	SM2E	dDw
I dPr p	1S0 1	4- -	- 7S	- 10	- 60	16M1E	dDw
I dPr p	1SE 1	27N	2N-	2N-	207	7M27	dDw
I nocmb	2- 2	- 012-	- 70E7	- 771E	- 6147	2M10	dDw
I TpnCTcmb	N6 1	1N6NS	1EES6	1E422	1E- - 6	- M2S	dDw
I TpnCTcmb	NN 1	166S67	164- 7E	167SN0	16710S	SM72	dDw
I mPmp	- 4 1	2E2N27	2ES- 4S	2E- 614	2E226S	SM7N	dDw
Ar pecmb	17E 1	1S76SNE2	1S4116SN	1S4N7EN0	1S4N6162	SM01	dDw
Ar pecmb	17E 2	- 67247S	- N- 1E4-	- 6N7462	- 02- 2N7	2M70	dDw
AGsPPcmb	2S- 1	- E2	4- -	227	- 7S	- 1M7S	dDw
AGsPPcmb	2S7 1	NE2	NSN	1S10	ES6	11M7N	dDw
AdC	11N 1	2027	27E2	247E	27E2	7M14	dDw
AdSCcmb	40 1	6- 616	67N72	67471	64E0-	1MM-	dDw
RpsCcmb	2- N 1	11- 64	121- 1	11- NS	11627	- M00	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 47S S-	tOwTpmb Or Tusb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUS6	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS1J-6	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I -	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	71 2	- 2E0	- S- 4	- 400	- 26E	6NM2	dDw
YTTr pe omb	102 1	- N06	- N26	- NSE	- N- 0	SNMS	dDw
YTTr pe omb	102 2	1E47	16NE	1047	10E-	0M7S	dDw
YTTr pe omb	106 1	- 0N4	- 27E	- 6SE	- 771	0M7-	dDw
YTTr pe omb	106 2	11SE4	110S6	11711	114- 0	2M0-	dDw
YTTpomb	NE 1	14S76S- 1	1- 6- - E6N	14S4S6N6	1- E1S22N	1M02	dDw
YTTpomb	NE 2	117- 6E2	12N67E-	11N64E2	12SNE26	7M0-	dDw
ZdCd	66 2	11- 11	11- 4N	1122N	112E6	SM74	dDw
ZqpdnComb	ES 1	ES61	E70E	E4S-	E- 4N	2MM1	dDw
ZqpdnComb	E1 1	2- E2	2S7E	227S	22- 4	0M4E	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 447 S4	tOwTpmb Or T.usb r:J	8 N
5 Pr CTI sb DPP:t&:.J	9 y SUN2	&dPmTcnC:UsdTnp.J	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r:J	146q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb cOcmb	20 2	04S6S-	0- 470-	0277SN	0- h161	SM0-	dDw
qCTb nCE	121 1	- SS7	- 2S7	- 172	- 1- 0	- M14	dDw
qpwr Ocd	0h 2	4N- N	4044	40- 4	4002	1M2S	dDw
Bspcmb	1- h 1	h0- 161	h71h1h	h06h17	hNS- 7N	1M6N	dDw
Bspcmb	1- 0 1	1S1472S	1S44701	1S1N664	1S261Nh	1M6S	dDw
Br pEPPmb	7 1	2670	2027	2071	20- 7	1M04	dDw
Bcvb mTG	2S7 1	6NNS172	6N74NN7	0166606	67NShN6	2M1	dDw
Bcvb mTG	2S7 2	- - 00h66	- 417hh1	- 2N070N	- - 6167N	2M3S	dDw
Bpmb cOr	N1 1	67- h	0h20	N- 17	0h74	7M1h	dDw
5 sob cmb	1SN 1	10h	172	1h4	104	1SM12	dDw
5 sob cmb	1S6 1	44- 4	4172	44h7	4- 62	- M1N	dDw
5 sob cmb	111 1	2107	2S2-	2110	21S6	- M0h	dDw
5 sPdcmb	4- 1	- 114- 1	- 2120-	- 1N- h1	- 10S1N	1M17	dDw
5 sPdcmb	44 1	h- 26S0S	hh- h1SN	h472h40	h4h1241	2M3-	dDw
5 spenC	12 1	400S421	47h7hh7	470hN00	47S17h2	2M-	dDw
5 spenC	12 2	h7h- N	hNN17	h77- 1	h7427	SM7h	dDw
5 GPmpcOr	- h 1	2h11211N	27- 2606h	- 1- - 762h	2Nh72N- 6	11M11	dDw
5 GPmpcOr	- h 2	226S2N	220716	2- Sh- S	22N1hN	SM77	dDw
5 Gpmb cmb	h2 2	47606	h1SN4	hS2hh	hS- - N	1M41	dDw
5 nesPT	h7 2	6hN62	6407S	641S4	6471N	1M6	dDw
5 nDDr p	6- 2	1h- N21	1h2117	1h2h70	1h2N46	SM10	dDw
&EwDpnwcmb	1h6 1	0- hS2	06612	0676-	0h672	2M12	dDw
&EwDpnwcmb	1h6 2	- 1474	- 1- S0	- 120-	- 1- hN	SM1N	dDw
Fpecmb	164 1	62- Sh	64NN-	6427S	6- N26	2M12	dDw
Fpecmb	164 2	261N6	247NS	2h261	2h406	2M4N	dDw
HsonPCcmb	16S 1	666N4	6N116	67SS4	607- h	1M02	dDw
HsonPCcmb	16S 2	- 220-	- 1712	- 1- N4	- 1Nh6	1M4S	dDw
y nPb cmb	16h 1	1SSS2S- h	77N0160	1S260617	1SSNh6S0	1M16	dDw
y nPb cmb	16h 2	44hSh12	4- 17202	4- 7- 6S1	4- N007h	1M1S	dDw
tCocmb	11h 1	0- - 6444	021h7h0	04S0SNS	0- 17N20	1M12	dDw
tCocmb	11h 2	1SShh7h	1SS074h	7NSS1h	770Nh2	1M1h	dDw
tpnC	h4 2	- Nh40- S	- 712h66	- NNh4S1	- NN42- 2	SM04	dDw
tpnC	h6 2	6770- S1h	67776S07	6N0Nh220	67hN4004	1M3S	dDw
tpnC	h0 2	1NS0h- 6	10N0S14	1006- 26	107S272	SMN7	dDw
KpEDTnC	N- 1	- - 6	- - S	- 46	- - 0	2M4-	dDw
Lr so	2S6 1	4440h4	4h6- 72	4hSS- -	4hS- 7-	1M27	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN2	&dPnTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r:J	146q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	- 677h7	- 0N164	- 06071	- 04702	1M10	dDw
Lr so	2SN 1	104- - S0	1007- hS	10602S7	106- 2N7	1N84	dDw
LdTGmb	6 1	26206S-	261SN6N	26hSh- 6	2627667	SN06	dDw
9 sgOr wcmb	24 2	N747- h	N047SN	N67h2S	N070NN	1M12	dDw
9 sOgsOr wr	hh 2	N412S7	N2h0N6	N2- 642	N- S212	1M1h	dDw
9 nPEeor Omb	74 1	2S2- 2	2S104	17- - 7	1771h	2M11	dDw
9 nPEeor Omb	7h 1	60- h	0- Nh	6074	6701	hM16	dDw
9 nPEeor Omb	76 1	1SS46	7NN0	1Shh4	1S162	- M4-	dDw
9 nPEeor Omb	70 1	4- - 4	4006	4- h7	447S	hM1-	dDw
9 nPEeor Omb	7N 1	11h40	110- 7	110- 7	1160h	SM7h	dDw
u r noEb omb	1hS 1	12S4S1	12427S	12- 10-	122622	1M4-	dDw
u r noEb omb	1hS 2	- 0- h7	- 6014	- 647S	- 6Nh4	1M12	dDw
u cdkr P	6S 2	- 6- 0S	- h71h	- 6SN6	- 6124	SM04	dDw
8 GhwDGhpmw	- 1 2	6- 1N	667-	606S	6h71	- M61	dDw
8 nTswwcmb	- 7 2	- 14SS6	- 17h4h	- 12NN7	- 1h4NS	1M1-	dDw
. Ghocmb	1S- 1	02N- 602	0- 17S1h	0- N4770	0- 2722N	SM0S	dDw
. Ghocmb	1S- 2	- 411S10	- h1Shhh	- - 16027	- 412060	2MN4	dDw
I dsCocmb	4h 1	47N2S42	40472- 4	hS7SSN1	474S4h2	- M1-	dDw
I dsCocmb	4h 2	1h20S-	1h62hh	1hSN0S	1h- 206	1M07	dDw
I r PPCmb	N2 1	207	220	204	26S	1SMN0	dDw
I r PPCmb	00 2	140	14-	1hS	140	2M20	dDw
I r PPCmb	0N 2	1- 0	1SN	12-	12-	11MN2	dDw
I dPdnC	2N 1	12h066N6	1- 14Nh46	1260- NNS	120770S4	2M17	dDw
I dPr p	1S0 1	2072	2NS7	2642	204N	- M14	dDw
I dPr p	1S7 1	2660	2hN4	2042	2664	2M10	dDw
I nocmb	2- 2	74- 6-	7- 441	74- 21	74S42	SM1h	dDw
I TpnCTcmb	N6 1	- S4Sh1	- S676S	- Sh24h	- Sh417	SM1N	dDw
I TpnCTcmb	NN 1	2071027	27S261h	2070h70	2N- S640	2M1S	dDw
I mPPmp	- 4 1	- S2- N-	27N- h0	27hNNh	27NN0h	1M1S	dDw
Ar pecmb	1h7 1	1S227100	1S1hSNN1	1Sh74617	1S- 24N72	2M17	dDw
Ar pecmb	1h7 2	42111- S	4171111	41h7667	41N0- S-	SM02	dDw
AGsPPcmb	2S- 1	2672	26hS	2472	2611	4N84	dDw
AGsPPcmb	2Sh 1	6120	6020	64- h	64- S	4M60	dDw
AdC	11N 1	7N12	7hh4	1ShNN	77N4	hM17	dDw
AdSCcmb	40 1	02h26	0h0- 4	04- 4-	042S1	2M10	dDw
RpsCcmb	2- N 1	N6- 26	72274	7S4N2	N70S1	- M41	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S4	tOwTpmb Or Tusb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN2	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJS4J-0	&sTsUdP:usb r :J	146q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h1 2	Nh- S2	Nh470	Nh6- 1	Nh400	SM17	dDw
YTTr peomb	102 1	1720-	17766	17N7S	1701S	1M7-	dDw
YTTr peomb	102 2	7N26	72- 0	767N	7hN0	- M4-	dDw
YTTr peomb	106 1	1- 177	14S16	1- 2h0	1- 471	- MN	dDw
YTTr peomb	106 2	1N- 71	1N670	1060-	1N2h4	2MMN	dDw
YTTpomb	N7 1	14h- 0064	141h6621	14267- 6h	14- 212hS	1M0	dDw
YTTpomb	N7 2	1h- S02-	1h22166	14727S2	1h1h264	1M1	dDw
ZdCd	66 2	06626	0hN22	0h10h	0hN04	SM76	dDw
ZqpdnComb	7S 1	42N2h	44276	4h4SS	44104	2M72	dDw
ZqpdnComb	71 1	72- 0	7h07	7612	7406	2M17	dDw

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Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
LwrJDwe t 8pJ8TJaJ	3 - 447 S:	& l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	T8biqC. JMwOlClJa	1
TwipJAJcqe pJdOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMt8pJmwe pJa	140dF UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
d8be q dpe	20 2	11uS0- 7	1Su61: 6	1Su274:	1116614	4R7u	Ol l
d. iqe C. E	121 1	10: 4:	1u4uS	1u6- u	1u221	- R24	Ol l
dll p. qO	0: 2	u76:	u722	u0- u	uu0:	1R 6	Ol l
Bwldpe	1- : 1	7- - 2u1	7: 0- 76	74- - 16	74466:	1R2u	Ol l
Bwldpe	1- 0 1	102u240	1u47722	104: - uu	1004: 17	- R01	Ol l
BplE8pe	7 1	: 6S7	: 000	: 6- :	: 604	1R 7	Ol l
Bdqe biG	2S7 1	047: Su:	02: 4- : -	01S0406	02u: 6- u	2R67	Ol l
Bdqe biG	2S7 2	- S: : S6u	- 2707- 2	- - : - 2u2	- 2- : 420	4R7S	Ol l
BlCe q p	u1 1	u0u6	u7- 6	uu7:	uu02	SRu0	Ol l
9 wne dpe	1Su 1	: SS	: 10	: S4	: S0	1R01	Ol l
9 wne dpe	1S6 1	40S7	46- 4	4u7-	404:	2RuS	Ol l
9 wne dpe	111 1	6202	6S: -	6- 46	6224	2R4:	Ol l
9 w8Odpe	4- 1	uu6S40	7S200S	uu60u6	u71u60	1RS6	Ol l
9 w8Odpe	44 1	1: 1S2- 1:	1: 4: S774	1: 2- 64u:	1: 26- 26:	1R1:	Ol l
9 wlr C.	12 1	0170624	044u: S2	06: u1S6	04- 4044	- R1S	Ol l
9 wlr C.	12 2	uuu20	uu0: 1	u7S- 6	uuu01	SR10	Ol l
9 G8Clq p	- : 1	24614- 7-	2u: - 1SS6	- SSu: - 07	2004- : 72	1SR16	Ol l
9 G8Clq p	- : 2	21uS60	221S74	226S: -	2210- u	1Ru2	Ol l
9 GlCe dpe	: 2 2	6uu: :	6u- - 2	6uS04	6u42S	SR u	Ol l
9 Cr w8	: 7 2	44S21	4- 064	4- - 6-	4- 016	SR06	Ol l
9 Ct t pl	6- 2	27u1- 6	2u0- : 7	2u0774	27116-	2RSu	Ol l
TEl t lCl dpe	1: 6 1	uS7- 0	u2771	u12- u	u1022	1R 6	Ol l
TEl t lCl dpe	1: 6 2	- - 2: 1	- 27u1	- - 07-	- - - 42	1R24	Ol l
Ulr dpe	164 1	62Suu	62604	62766	62: 06	SR01	Ol l
Ulr dpe	164 2	24710	24606	24: S7	240S1	SRu-	Ol l
HwnC8q dpe	16S 1	0S11u	0S66-	67u66	0S216	SR u	Ol l
HwnC8q dpe	16S 2	- - : - 2	- 247-	- 1664	- 2: 6-	2Ru0	Ol l
h C8e dpe	16: 1	1S0u: 062	1S: 2u7u0	1S: u0- S-	1S6- 4S10	1R20	Ol l
h C8e dpe	16: 2	- 722u01	427S: 60	4- S40: -	41020- S	: R17	Ol l
& ndpe	11: 1	0uS: S7u	0- : 7704	04: : 421	0: 4S164	- R11	Ol l
& ndpe	11: 2	u0- u70	767477	701S10	7- u1- 0	: R7-	Ol l
&C.	: 4 2	- 2uS- 7-	- 2S- u4:	- 2- 161u	- 2- u617	1R2S	Ol l
&C.	: 6 2	: u- SSS07	: u76- - 44	: 67012u:	: uS0u2- 6	1R0:	Ol l
&C.	: 0 2	1402: - :	1: - S0S-	14: 10: -	14u4770	2R06	Ol l
KlEt iC.	u- 1	- 47	- 61	- - 7	- : S	- R2-	Ol l
Lpwn	2S6 1	4Su46- 7	41060S4	41S7S41	412- 461	1R16	Ol l

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LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 - 447 S:	& l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	Tq8piqC. JMwOlClJa	1
TwipJAJcqe pJdlOobdpnJa	2S2- S0 12J2SaS0a-4	TwiwMq8pJmwe pJa	140d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Lpwn	2S0 1	- - 422u:	- 4S: 72:	- - 01- 64	- - 0- 171	SR74	Ol l
Lpwn	2Su 1	1: 0: 406S	1: uu4741	1: 6717u0	1: 0002- S	SR62	Ol l
LqjGdpe	6 1	262: 6- 1	26: 166-	261SS2-	26271S:	SRuS	Ol l
y wg. pl dpe	24 2	12- : 42:	12S6110	117062:	121- S: 6	1R6-	Ol l
y w. gw. pl p	: : 2	121- 1u-	11u164S	1107: S:	117144-	1R u	Ol l
y C8Er np. be	74 1	2622:	2601S	267- :	2662-	1R 6	Ol l
y C8Er np. be	7: 1	14141	14- : S	14- 71	14274	SR74	Ol l
y C8Er np. be	76 1	1u201	17S- u	1u4- u	1u: u2	2R10	Ol l
y C8Er np. be	70 1	uu7:	7- 4:	740S	72- 0	- R2u	Ol l
y C8Er np. be	7u 1	220: -	227: -	226S2	22067	SR00	Ol l
mpOnEe dpe	1: S 1	1- u6S-	1424uu	1- 71- 6	14SS06	1R S	Ol l
mpOnEe dpe	1: S 2	41440	41S7-	4S- 74	4S70u	1R 1	Ol l
mqOkp8	6S 2	2: 2: 6	2: - 6-	240- 2	2: 110	1R 4	Ol l
NGOl t GOlbl	- 1 2	u12u	0474	0: S2	00Su	4R02	Ol l
NOiwl l dpe	- 7 2	: 42222	: 26166	: - 2- 71	: - - : 7-	1R 2	Ol l
F GOndpe	1S- 1	00471u:	061u2: S	046: 627	0611S21	1Ru6	Ol l
F GOndpe	1S- 2	276uu26	- 2000- -	- - uu4S-	- 2116: 4	6R00	Ol l
DOw. ndpe	4: 1	: S022: 0	476u- 02	474S26S	477- 6- S	1R 7	Ol l
DOw. ndpe	4: 2	1- - 67-	14474u	146u77	141u46	: RS-	Ol l
Dp8p. dpe	u2 1	167	2S2	20S	214	24R12	Ol l
Dp8p. dpe	00 2	16S	1: S	1: -	1: 4	- R S	Ol l
Dp8p. dpe	0u 2	141	126	121	127	uRS:	Ol l
Dq8qC.	2u 1	144u1020	14uS: 7: 2	1462S44-	146- 6S41	1R11	Ol l
Dq8vpl	1S0 1	7712	1SS07	1SS: 4	1SS1:	SR7S	Ol l
Dq8vpl	1S7 1	74u0	1S2- 0	704:	7u2-	- Ru	Ol l
DOndpe	2- 2	1: 2S07	14021-	14u14S	147144	1R0-	Ol l
DilC. idpe	u6 1	6u- S: 0	6u: - 00	661: 6S	60666:	1R74	Ol l
DilC. idpe	uu 1	61u4611	6170042	6S471- 7	614- u- S	1R 4	Ol l
Db8bl	- 4 1	- 41- 14	- 401: :	- 4u: 2S	- 4: 66-	1R11	Ol l
cplr dpe	1: 7 1	111S0S70	1S6- 1464	1S67- u: u	1Su1SuS6	2R 7	Ol l
cplr dpe	1: 7 2	- 6744: u	42- 4267	4- S4: u1	4S00067	uR17	Ol l
cGw8pe	2S- 1	- S60	2uS7	2642	2u- 7	0R 4	Ol l
cGw8pe	2S: 1	626u	6667	6: u:	6: S0	- R24	Ol l
cq	11u 1	uu0- S	727u-	7S: 42	7S0: 1	2R :	Ol l
cqjw. dpe	40 1	411u6u	41622S	410146	41: S0u	SR6u	Ol l
5 lw. dpe	2- u 1	02: 71	0: u44	0- S- :	0- u2-	2R 7	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJmbe r plJa	LB1264S0	3 t plwiClJa	swl Pw8
Lwr JDwe t 8pJ8TJaJ	3 - 447 S:	& l ilbe . piJmwe pJa	Nu
9 8p. iJDwe t 8pJ8TJaJ	y h SMu-	Tq8piqC. JMwOlClJa	1
TwipJAJcqe pJdOobdqpnJa	2S2- S0 12J2SaS0a-4	TwiwMq8pJmwe pJa	140d F UMRn

Nwlwe pipl	y wl l	9 ND1	9 ND2	9 ND-	9 NDy pw.	9 NDF DT	5 . qjl
Vw. wndpe	: 1 2	714: 0	7Su46	u742S	7S: 04	1R1:	Qt l
Yiiplr dpe	102 1	174S6	177S0	1740-	17: 7:	1R7	Qt l
Yiiplr dpe	102 2	7- 2S	u072	7114	7S0:	2R7-	Qt l
Yiiplr dpe	106 1	1- 4: 0	14216	1- 624	1- 066	2R7S	Qt l
Yiiplr dpe	106 2	16221	102- 4	104S6	167: 4	- R0u	Qt l
Yiildpe	u7 1	1: 1- 2S00	146: 46u6	14- u4264	1402- 606	2R0	Qt l
Yiildpe	u7 2	1- 0- S2u	14: 0- 40	1406u42	14- : 0- 7	- Ru4	Qt l
Zq O	66 2	- - 74S1	- 2707u	- - S: - S	- - - 24-	1R6S	Qt l
ZdqOC. dpe	7S 1	47: 64	477Su	4u74:	47402	SR77	Qt l
ZdqOC. dpe	71 1	111uu	11422	11S- S	1121-	1R06	Qt l

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or Tu sb r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN4	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdP:usb r:J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCmb	20 2	0N16hS	00NN72	007N17	0NS12S	SM1N	dDw
qCTb nCE	121 1	h24-	h- Nh	h2h1	h27-	1M1S	dDw
qpwr Ccl	0h 2	6672	6N44	6hN6	60SN	1M7-	dDw
Bspcmb	1- h 1	6S- 4N7	6SS417	hNN04S	h70h47	1M1S	dDw
Bspcmb	1- 0 1	1S01N72	1S41740	1S61Sh6	1ShN27N	1M4-	dDw
Br pEPmb	7 1	- 212	- 4Nh	- 460	- - NN	4M1S	dDw
Bcwb mTG	2S7 1	01h676-	0272211	01- 7412	017617h	1M16	dDw
Bcwb mTG	2S7 2	- - 6- 2- 6	- 2N7h74	- - 6NhhN	- - 4S46-	1M2	dDw
Bpmb cCr	N1 1	N0- 6	712S	7N4h	72- 4	6M1S	dDw
5 sob cmb	1SN 1	227	- 21	2- N	26-	17M1	dDw
5 sob cmb	1S6 1	4hS1	4- 6N	42S1	4- h6	- M4h	dDw
5 sob cmb	111 1	20S2	2712	2060	2074	- NMh	dDw
5 sPlcmb	4- 1	4h0NSS	4h66- 7	4470h1	4h40- S	SM76	dDw
5 sPlcmb	44 1	060S4S0	0044204	0hShh- 0	064SS02	1M6S	dDw
5 spenC	12 1	- 0- 6N- 7	- N407h-	- N- 1- 20	- NSh- 0-	1M10	dDw
5 spenC	12 2	4- 7hN	4hSN6	4h0NS	44741	2N8h	dDw
5 GPmpcCr	- h 1	241- 4h- 6	20N- - N6S	27N62470	20206764	1SM6h	dDw
5 GPmpcCr	- h 2	211S46	2100h-	222447	210SN2	2M64	dDw
5 Gpmb cmb	h2 2	4h7SS	4hS21	4hh12	4h40N	SM70	dDw
5 nesPT	h7 2	4- 14h	42426	4- S- 2	42N6N	SM7S	dDw
5 nDDr p	6- 2	1h6S- h	1h02SS	1hh1hN	1h61- 1	SM66	dDw
&EwDpnwcmb	1h6 1	N- N- 0	N21S-	N2N66	N27- h	1N8h	dDw
&EwDpnwcmb	1h6 2	- - 646	- 4hS4	- 41S4	- 4SNh	1M26	dDw
Fpecmb	164 1	6h476	6- S06	64706	64h16	1M70	dDw
Fpecmb	164 2	2hh- h	2h2h0	2h120	2h- S6	SM12	dDw
HsonPCmb	16S 1	027hS	04424	024- 7	0- 201	1M41	dDw
HsonPCmb	16S 2	- 4Sh4	- - 44h	- 4- - N	- - 74h	1M4	dDw
y nPb cmb	16h 1	1S16h606	1S2h26S6	1S- 6S626	1S2h76- 6	SM7h	dDw
y nPb cmb	16h 2	4- hhN20	427S- N2	426472N	4- S- 012	1N87	dDw
tCocmb	11h 1	01h4- hS	047274N	0hSh44N	0- N4247	2M0S	dDw
tCocmb	11h 2	76N1- 1	76Nh0-	7h76N-	76h46-	SM12	dDw
tpnC	h4 2	2NN- 716	27S6hN-	2Nh21S7	2NNSN0S	SM7h	dDw
tpnC	h6 2	h12N6- SN	hS44- 102	hS06227N	hSN- Sh7-	SMN4	dDw
tpnC	h0 2	12247N-	12S- - h7	12SSh21	12S7621	1M1	dDw
KpEDTnC	N- 1	- h4	- 40	- - 0	- 46	2M0	dDw
Lr so	2S6 1	1Sh07N7	1S44460	1S42714	1S4N4h6	SM07	dDw

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or TusbR:J	8 N
5 PrCTI sb DPP:t&:J	9 y SUN4	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdP:usb r:J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	N67- Nh	N64h4h	Nh74N0	N64402	SM10	dDw
Lr so	2SN 1	4- 721hS	4- 0h702	426h760	4- 44670	1M1N	dDw
LdTGmb	6 1	26h- - S1	2641- 0h	26- 2142	2642202	SM4S	dDw
9 sgOr wcmb	24 2	N26161	N27S- N	N- - S11	N274S-	SM41	dDw
9 sOgsOr wr	hh 2	NN1201	N0- S00	N0- 7NN	N06112	SM11	dDw
9 nPEeor Omb	74 1	16N- 6	16- 7-	10161	16070	2M27	dDw
9 nPEeor Omb	7h 1	70N0	7NS4	772S	7N- 0	SM04	dDw
9 nPEeor Omb	76 1	12- N7	1- 17S	1267N	120h7	- M10	dDw
9 nPEeor Omb	70 1	62h2	6h1N	6h6S	644-	2M6S	dDw
9 nPEeor Omb	7N 1	1hN6N	1h6h1	16- 6S	1h76S	2M2N	dDw
u r noEb cmb	1hS 1	1402h-	1401Sh	14- N47	146S67	1M12	dDw
u r noEb cmb	1hS 2	4- 7S7	4- - N-	42N62	4- - Nh	1M21	dDw
u cdkr P	6S 2	26NN7	20SN-	261- 0	260S-	1MM0	dDw
8 GhwDGhpmw	- 1 2	- 0N4	4S- 4	- 642	- N2S	hM17	dDw
8 nTswwcmb	- 7 2	4- 02- 0	4260S7	4- - 0N-	4- 2h06	1M24	dDw
. Ghocmb	1S- 1	017- 1NS	027142h	04ShN61	0276N22	1M46	dDw
. Ghocmb	1S- 2	- 4S- 14S	- 27N4S4	- 27S0hh	- - - S066	1MM7	dDw
I dsCocmb	4h 1	4N1N7S2	4000S6h	4Nh1447	4N1hNSh	SM00	dDw
I dsCocmb	4h 2	14N147	14N06N	1406NS	14N177	SM10	dDw
I r PPCcmb	N2 1	1h6	1- 4	1- 1	14S	7MM1	dDw
I r PPCcmb	00 2	1h0	21-	140	102	2SMMN	dDw
I r PPCcmb	0N 2	11h	114	11N	116	1MMS	dDw
I dPdnC	2N 1	16S17h42	1611100-	1h0746SN	1h70h- SN	1MS2	dDw
I dPr p	1S0 1	4426	4606	4- h1	44N4	- MMS	dDw
I dPr p	1S7 1	44N4	4110	4110	424S	4M17	dDw
I nocmb	2- 2	02S12	0- Nh-	0- 2N4	0- ShS	1M27	dDw
I TpnCTcmb	N6 1	- h11h0	- h- SN-	- h1h01	- h17- 0	SM27	dDw
I TpnCTcmb	NN 1	- 2- 014h	- 20h4Sh	- 24- 226	- 2h1726	SM0-	dDw
I mPPmp	- 4 1	272S71	272hNS	27h1N6	27- 2N6	SM10	dDw
Ar pecmb	1h7 1	1S1- 2NS-	1S4607S7	1S2h6- 4S	1S2Nh6N4	1M6h	dDw
Ar pecmb	1h7 2	41hh610	41S1S71	422S210	41hN70h	1M4-	dDw
AGsPPcmb	2S- 1	2NN4	2N- 4	27- 4	2NN4	1M0-	dDw
AGsPPcmb	2Sh 1	0S20	6N- h	666S	6N41	2M6N	dDw
AdC	11N 1	- NN7N	4S24-	- 7N- 4	- 76hN	1M04	dDw
AdSCcmb	40 1	11NS67	11N7h7	114S74	110S4S	2M21	dDw
RpsCcmb	2- N 1	47hh6	hS01S	4707N	hSS21	1M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S6	tOwTpmb Or Tu sb r :J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUN4	&dPnTcnC:UsdTnpJ	1
&sTr :i :Adb r :qdOmpr o:J	2S2- S0 12:2SJ1SJ-2	&sTsUdP:u sb r :J	14Nq. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h1 2	Nh41-	N206N	N42- 6	N41- 7	1M1N	dDw
YTTr peomb	102 1	2S4hN	1N- 6-	17h6h	17462	hM4S	dDw
YTTr peomb	102 2	N6S7	N70h	N772	NNh7	2M4h	dDw
YTTr peomb	106 1	127N2	1- 1- 2	1- 447	1- 1N0	1MM1	dDw
YTTr peomb	106 2	10- 0-	1004S	10N76	10667	1M12	dDw
YTTpomb	N7 1	142071h2	142N1421	14h14- 06	14- hN- 16	SM74	dDw
YTTpomb	N7 2	14h1h67	14h2247	140SS0h	14h0764	SM02	dDw
ZdCd	66 2	71- - 6	72NNh	72174	721- N	SMM4	dDw
ZqpdnComb	7S 1	27h6h	- Sh42	27741	- SS16	1M64	dDw
ZqpdnComb	71 1	0Sh2	66Nh	6620	60NN	- M4S	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er p.J	LB1264S0	3 Dr psTnp.J	aswl sP
Lse:I sb DPP:t&:.J	3 - 447 S0	tOwTpmb Or T.usb r:J	8 N
5 Pr CTI sb DPP:t&:.J	9 y SUNh	&dPnTcnC:UsdTnp.J	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
qPmb oCcmb	20 2	4h2672	447440	440471	447N00	SM1N	dDw
qCTb nCE	121 1	- 6S7	- 10h	- - hS	- - 0N	6M46	dDw
qpwr Ccd	0h 2	2S67	2S60	2SN6	2S04	SM1S	dDw
Bspcmb	1- h 1	22NhSh	2- 077N	2- 4060	2- - 0h0	2N36	dDw
Bspcmb	1- 0 1	411S47	411671	41NN2h	41- Nhh	1N34	dDw
Br pEPPmb	7 1	12- 2	1- - 1	122h	126-	4M0S	dDw
Bcwb mTG	2S7 1	6N40762	67hSSN-	0SN611-	6761- N6	1M02	dDw
Bcwb mTG	2S7 2	- - 16h2S	- - h1h60	- - 61h6S	- - 4- 216	SM01	dDw
Bpmb cCr	N1 1	0S- h	0- h2	0274	0220	2M-	dDw
5 sob cmb	1SN 1	22h	10h	227	21S	14M0	dDw
5 sob cmb	1S6 1	- 0N4	- h72	- 7N4	- 0N0	hM10	dDw
5 sob cmb	111 1	26- 4	2004	2hS1	26- 6	hM17	dDw
5 sPlcmb	4- 1	401016	40644-	402744	40- 0S1	SM12	dDw
5 sPlcmb	44 1	NS6N7h1	N24h- 1h	0007- N7	NS- 121N	2M7-	dDw
5 spenC	12 1	602h- 6h	606hSS-	6N0- 0S1	60NNS2-	1M1-	dDw
5 spenC	12 2	NS- 2N	NS064	NSNN7	NS66S	SM10	dDw
5 GPhpcCr	- h 1	2- N0h- 27	20NN207h	- S- 76h- h	20- N4NN6	12N31	dDw
5 GPhpcCr	- h 2	214216	21N2N6	22110S	210N7S	1M6S	dDw
5 Gpmb cmb	h2 2	- SS4h	- S2- 2	2702N	- SSS1	SMNh	dDw
5 nesPT	h7 2	261N0	20- 2S	2660h	26020	2M12	dDw
5 nDDr p	6- 2	6242S	61466	61- 1N	610- h	SM70	dDw
&EwDpnwcmb	1h6 1	- - - 7-	- 4S20	- h1hh	- 4172	2M61	dDw
&EwDpnwcmb	1h6 2	14SS4	14- 11	141S4	1414S	1M11	dDw
Fpecmb	164 1	26- 00	20001	2N222	204h0	- M1S	dDw
Fpecmb	164 2	11- 2h	114h2	1SNNh	1122S	2M6h	dDw
HsonPCcmb	16S 1	- S11S	- 101-	- 2016	- 1h1-	4M10	dDw
HsonPCcmb	16S 2	140hh	1470N	1422N	146h4	2M4-	dDw
y nPb cmb	16h 1	70S2hS1	77Nh7- 0	1S222402	770S- S-	2M61	dDw
y nPb cmb	16h 2	42NSh- 0	4- S2761	417SS44	42h0N40	1M4S	dDw
tCocmb	11h 1	670- 21S	02016N-	04S1S- N	021h- 1S	- N34	dDw
tCocmb	11h 2	762102	7027- h	7h- 10h	762061	1N3-	dDw
tpnC	h4 2	2S1SN7-	2S1N4- N	1760N64	1777S6h	1M16	dDw
tpnC	h6 2	- 6160- 4h	- 61- S177	- h- 772SS	- hN7N71h	1M21	dDw
tpnC	h0 2	N40S26	Nh10Nh	N- 20- S	N4- N40	1M1N	dDw
KpEDTnC	N- 1	260	260	- 14	2N-	7M44	dDw
Lr so	2S6 1	1N6SS2	1N4NSS	1N- 014	1N4N- N	SM02	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umb er pJ	LB1264S0	3 Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	3 - 447 S0	tOwTpmb Or TusB r:J	8 N
5 Pr CTI sb DPP:t&:J	9 y SUNh	&dPnTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdP:usb r:J	147q. FUMd

8spsb r Tp	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
Lr so	2S0 1	1407S-	1477S-	1h1N1N	147N0h	1M1	dDw
Lr so	2SN 1	0S06- 1	011h7h	01471N	011- N2	SM1	dDw
LdTGmb	6 1	2h1hN01	264S24N	261- 6h-	2hN7724	2M-	dDw
9 sgOr wcmb	24 2	1- 6h704	1- - 7- 20	1- - N7S4	1- 4NS6N	1Mh	dDw
9 sOgsOr wr	hh 2	- S0h0N	- S02N1	- S220N	- Sh012	SM0	dDw
9 nPEeor Cmb	74 1	1S4h4	1S1h4	1S207	1S276	1M0	dDw
9 nPEeor Cmb	7h 1	61Nh	62Nh	66Nh	6- Nh	4Mh	dDw
9 nPEeor Cmb	76 1	0h20	0044	0061	0600	1MS	dDw
9 nPEeor Cmb	70 1	- 0h7	- 410	- hS7	- h62	4M0	dDw
9 nPEeor Cmb	7N 1	7- 2S	7hh4	702S	7h- 1	2M1	dDw
u r noEb cmb	1hS 1	h4702	hhS02	h4N- 7	h4761	SM1	dDw
u r noEb cmb	1hS 2	16- 1S	1617S	16- 6S	162N0	SM4	dDw
u cdkr P	6S 2	1Nh4h	17206	172- 6	17S17	2M6	dDw
8 GhwDGhpmw	- 1 2	44- 4	4h6N	4NN4	4627	hMS	dDw
8 nTswwcmb	- 7 2	- S10N7	27740h	277N1S	- SS- hN	SM2	dDw
. Ghocmb	1S- 1	67607- 0	0SNhSS7	0- 2S162	0124- 67	2M2	dDw
. Ghocmb	1S- 2	- - - 1704	- - 41h66	- - h0161	- - 4- h60	SMN	dDw
I dsCocmb	4h 1	4621N20	4626h14	4h0647h	46SN207	SMS	dDw
I dsCocmb	4h 2	14- hh0	14h2hS	14N11h	14h641	1MN	dDw
I r PCcmb	N2 1	14h	166	71	1- 4	2NM1	dDw
I r PCcmb	00 2	60	0-	- -	hN	- 0M7	dDw
I r PCcmb	0N 2	h2	61	h-	hh	NM1	dDw
I dPdnC	2N 1	12S22Sh4	12Sh0N24	12S2N774	12S- 627S	SM6	dDw
I dPr p	1S0 1	220h	2610	2410	24- 6	0MSh	dDw
I dPr p	1S7 1	2Sh7	2SSS	2S72	2ShS	2M6	dDw
I nocmb	2- 2	4h7- 1	4h1- 0	4h127	4h- 77	1MS2	dDw
I TpnCTcmb	N6 1	107426	10062N	100h06	10N21S	SM7	dDw
I TpnCTcmb	NN 1	1606S40	16h2NS-	16SN002	164hN04	2MSN	dDw
I mPmp	- 4 1	27NhN0	- Sh- SS	- S612N	- S- - - 7	1M6	dDw
Ar pecmb	1h7 1	7N6SN0S	1S104S- 6	1S611hSS	1S21h467	- M7	dDw
Ar pecmb	1h7 2	414hSh2	4212270	41SShNS	41h264-	1Mh	dDw
AGsPPcmb	2S- 1	2S10	2S42	21hS	2S0S	- M-	dDw
AGsPPcmb	2Sh 1	4N- 4	4- 26	4N06	4607	6Mh	dDw
AdC	11N 1	44- 4	4242	4- 7-	4- h6	2M1	dDw
AdSCcmb	40 1	6- N7-	6- 6SN	6- 06N	6- 0h6	SM2	dDw
RpsCcmb	2- N 1	44174	442S-	44722	4444S	SM4	dDw

888

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:umber pJ	LB1264S0	3 DrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	3 - 447 S0	tOwTpmb OrTusb r:J	8 N
5 RrCTI sb DPr:t&:J	9 y SUNh	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2S2- S0 12:2SJ1- J27	&sTsUdPr:usb r:J	147q. FUMd

8spsb r Tr p	9 sww	5 8 l 1	5 8 l 2	5 8 l -	5 8 l 9 r sC	5 8 l . l &	RCdTw
VsCsoomb	h1 2	hS00S	h1hh2	hS744	h1SN7	SMMS	dDw
YTTr peomb	102 1	N011	N- 4h	N661	Nh02	2M12	dDw
YTTr peomb	102 2	- 07h	4127	- N4S	- 721	4M12	dDw
YTTr peomb	106 1	6- 00	66S2	6Nh2	661S	- MdS	dDw
YTTr peomb	106 2	14S04	142SN	14440	1424-	1M-	dDw
YTTpomb	N7 1	1- h7702h	1- h6- 406	1- N- 0711	1- 660S- 0	1N37	dDw
YTTpomb	N7 2	1- 2- 164	1- 12202	1270NN0	1- 111SN	SM70	dDw
ZdCd	66 2	hSN20	h1- h6	hS426	hSN0S	SM72	dDw
ZqpdnComb	7S 1	1N7NN	2S1h0	1N76-	17- 0S	- M12	dDw
ZqpdnComb	71 1	4h1N	41S1	42h1	427S	4M12	dDw

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N:
9 8r CTJ wb D8 Jt&JaJ	y h SM 6	&8mTmCJMwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J2Sa16a2:	&wTwMv8 Ju wb r Ja	1. SqF UMR

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
q8mb cOcmb	20 2	0: 6: : .	: S- . 64	0: 6: 00	072442	1R22	dDI
qCTb nCE	121 1	- 760	4210	- 706	4S. -	- R S	dDI
qpl r Ccl	0. 2	410-	42. 6	4274	4241	1R46	dDI
Bwpcmb	1- . 1	4- 2: 76	4- . S00	4. S. 72	4- 7. 21	2R2S	dDI
Bwpcmb	1- 0 1	0. : . 02	000- 0:	07- 2: 0	006412	2R24	dDI
Br pE8cmb	7 1	2214	2271	2261	22. .	1R0-	dDI
Bdl b mTG	2S7 1	066. 24S	01: 720S	62S242-	0S1: 70:	1SR6-	dDI
Bdl b mTG	2S7 2	- 27660S	- 14. - 46	- 2S7. S0	- 210104	2R 6	dDI
Bpmb cOr	: 1 1	: . : 6	: 061	: 1: 6	: . 11	- R40	dDI
9 wob cmb	1S: 1	2: -	- S:	276	276	4R2-	dDI
9 wob cmb	1S6 1	47. 7	46- 4	41S7	4. 6:	7R 7	dDI
9 wob cmb	111 1	41: 2	4S: 2	42: 4	41: 2	2R42	dDI
9 w8lcmb	4- 1	1S- - 14:	1S. 77- 1	1S. 7: . 1	1S. S700	1R40	dDI
9 w8lcmb	44 1	10- 4S1S7	107064- -	10: 10: 24	100114. .	1R 0	dDI
9 wpenC	12 1	4. S14S4	4007201	40: - 406	46: : S. 1	- R4.	dDI
9 wpenC	12 2	. 0602	. 0161	. . S4.	. 6626	2R46	dDI
9 G8npcOr	- . 1	2- 1: . S01	202240- 2	27- 7- 644	266S1147	11R .	dDI
9 G8npcOr	- . 2	21- 1- 4	217S1-	222: : S	21: - 4-	2R2.	dDI
9 Gpmb cmb	. 2 2	. 61: S	. . 6: 1	. . 16-	. . 60.	SR71	dDI
9 new8T	. 7 2	. 4- 2-	. - 227	. 2: : 1	. - 40:	1R41	dDI
9 nDDr p	6- 2	707. 1	77- . 2	77. - 6	7: 746	SR :	dDI
&El Dpnl cmb	1. 6 1	. 6174	. : 1- 6	. 06SS	. 0- 1S	1R0.	dDI
&El Dpnl cmb	1. 6 2	240: 6	2- 7. :	2- : - .	2417-	2R14	dDI
Upecmb	164 1	46164	460S:	47160	40- 46	- R :	dDI
Upecmb	164 2	17141	1: 7: 0	1: . . S	1: : 72	1R62	dDI
Hwon8Ccmb	16S 1	. 272-	. 1416	. - 700	. 2002	2R44	dDI
Hwon8Ccmb	16S 2	2. 1. 0	24. 47	247. S	24: : 6	1R24	dDI
h n8b cmb	16. 1	11404. 2:	1S2: 4727	: 7S- S. 6	1S22S: - :	12R 7	dDI
h n8b cmb	16. 2	42: 6244	4S1S26S	4260706	41: : 16S	- R67	dDI
tCocmb	11. 1	: - : - 0. :	0410706	6. 6: 40:	04. 60- 0	12R1:	dDI
tCocmb	11. 2	766. - -	72S427	74: - 10	74. S7-	2R46	dDI
tpnC	. 4 2	- 46S2. .	- 467: 4-	- - 0S: : 4	- 4- - 661	1R 7	dDI
tpnC	. 6 2	62S2141.	62- : . 247	6222SS- :	622S: 7SS	SR27	dDI
tpnC	. 0 2	16S474:	1. 71. 04	1. : S07-	1. 724- :	SR06	dDI
KpEDTnC	: - 1	- - .	- 11	- 27	- 2.	- R07	dDI
Lr wo	2S6 1	- 2S4. 7	- 2S4- .	- 2627-	- 22- 76	1RS.	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB.Jumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N:
9 8r CTJ wb D8 Jt&JaJ	y h SM 6	&8mTmCJMwdTnpJa	1
&wTr J JAcb r JqdCmpr oJa	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR

NwpwbrTrp	ywl	9NI 1	9NI 2	9NI -	9NI yrwC	9NI FI &	5CdT
Lr wo	2S0 1	261S: 4	20S16S	20107:	2606: S	2R16	dDI
Lr wo	2S: 1	122. S: -	12. . - 4-	126: 2. :	1247. 61	1R30	dDI
LdTGmb	6 1	207: 211	26- . 71:	2- 60604	26SS6S1	: R 6	dDI
y wgCr l cmb	24 2	224- 2- 6	2224- : 4	22S744:	222. 6: 7	SR06	dDI
y wCgwCr l r	. . 2	. 67044	. 01207	. . : 12S	. 66- : 1	1R20	dDI
y n8Eeor Cmb	74 1	1- 17S	1- - 7:	1- 46.	1- - . 1	1RS:	dDI
y n8Eeor Cmb	7. 1	70: 0	7: 4.	1SS07	77S4	1R 6	dDI
y n8Eeor Cmb	76 1	11022	11: : S	121: 1	1172:	1R7.	dDI
y n8Eeor Cmb	70 1	. : 7-	61. 2	6420	61. 0	4R -	dDI
y n8Eeor Cmb	7: 1	1. 4S7	16200	1. : 1:	1. : - 4	2R04	dDI
u r noEb cmb	1. S 1	717: :	7S12:	74- 2-	72146	2R2:	dDI
u r noEb cmb	1. S 2	206S2	20201	20. 0:	204: 4	SR60	dDI
u cdkr 8	6S 2	- 6: S4	- . : . :	- . - 10	- . 77-	2RS7	dDI
NGhl DGhpml	- 1 2	4410	4- - 4	4460	44S6	1R -	dDI
NnTwl cmb	- 7 2	- . 040-	- . 7: 72	- . - : 00	- . 0S: 1	SR .	dDI
F Ghocmb	1S- 1	: S76- 61	0- S1. 04	6- 6774:	02. . 761	11R71	dDI
F Ghocmb	1S- 2	- - 2S- . 2	- S71S- S	- 2S420-	- 2S. 217	- R :	dDI
l dwCocmb	4. 1	. 46- 7: S	4: 01. 46	4S77S06	4: 11. - 4	14R22	dDI
l dwCocmb	4. 2	140021	14S. : 1	144260	14417S	2R4:	dDI
l r 8 Ccmb	: 2 1	120	162	211	160	2. R1:	dDI
l r 8 Ccmb	00 2	00	110	1- -	1S7	26R0.	dDI
l r 8 Ccmb	0: 2	: 6	04	00	07	0R7S	dDI
l 8dnC	2: 1	112S4: . 7	1141. : : -	11. - 061-	11- : 611:	1R4:	dDI
l 8vr p	1S0 1	4226	4- 06	4- 10	4- S6	1R06	dDI
l 8vr p	1S7 1	4- 7-	4- 26	4S26	424:	4R6S	dDI
l nocmb	2- 2	: 6. S6	: 6S07	: . : 67	: 61. 1	SR :	dDI
l TpnCTcmb	: 6 1	- - 24- 0	- - 7. - 4	- 421S0	- - : S26	1R4:	dDI
l TpnCTcmb	: : 1	- S: 4- : 4	- 11. - 40	- 1. 7- 4-	- 117671	1R21	dDI
l m8mp	- 4 1	270: 0.	- S610:	- 1- - 4-	- S. 07:	2R -	dDI
Ar pecmb	1. 7 1	110. : : 14	1S- 2: 126	7S64764	1S- : - 76:	12R7:	dDI
Ar pecmb	1. 7 2	410S6- 6	- 76- 016	4S7. 10:	4S06. 1S	2R 0	dDI
AGw8mb	2S- 1	- . - 4	- . 42	- 406	- . 10	1RS-	dDI
AGw8mb	2S. 1	: 12:	: . : 6	: 40:	: - 70	2R .	dDI
AdC	11: 1	0044	: S. -	: 2- 6	: S11	- R1S	dDI
AdTwCcmb	40 1	62. 62	6410:	664- :	64- 72	- RS2	dDI
5 pwCcmb	2- : 1	6: 661	02- - 1	02121	01S- :	2R7S	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LBJumb er pJa	LB1264S0	3 Dr pwTnpJa	swl Pw8
LweJ wb D8 Jt&JaJ	3 - 447 S:	tCl Tpmb Cr TJu wb r Ja	N:
9 8r CTJ wb D8 Jt&JaJ	y h SM 6	&8mTmCJMwdTnpJa	1
&wTr J JAcb r JqdOmpr oJa	2S2- S0 12J2Sa16a2:	&wTwMt8 Ju wb r Ja	1. SqF UMR0

NwpwbrTrp	y wl l	9 NI 1	9 NI 2	9 NI -	9 NI y r wC	9 NI F I &	5 CdT
VwOwocmb	. 1 2	726. 2	72. 6S	7- 12S	72000	SR 2	dDI
YTTr pecmb	102 1	1- 004	141: -	14672	14216	- R2-	dDI
YTTr pecmb	102 2	6- 6:	60S2	6- 46	6402	- RS:	dDI
YTTr pecmb	106 1	1S107	1S476	1S2. 4	1S- 1S	1R61	dDI
YTTr pecmb	106 2	1. 46.	1. S- 1	147S7	1. 1- .	1R7-	dDI
YTTpcmb	: 7 1	1. 761: 7.	1412S: SS	121- - 27-	14S01776	1- R61	dDI
YTTpcmb	: 7 2	14- . . S0	1- 47. S-	14S4S: 4	1- 76- 6.	- R12	dDI
ZdCd	66 2	66622	60: - .	66607	60S46	1RS2	dDI
ZqpdnCcmb	7S 1	2S6: -	211S:	2S1S0	2S6- -	2R44	dDI
ZqpdnCcmb	71 1	44: 4	. S: 4	. 126	4: 7:	0R -	dDI

Reviewed By:Bin
On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S20	T&piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwR&p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
d8be qFdpe	20 2	21S2a1S	2S62220	2S7Ua61	2S60S77	1M67	Ol l
dFiqe . Fh	121 1	2641a04	26u61aa	207SU64	26u6246	1M6U	Ol l
dIl pFqO	0U 2	600u2	6Uu1S	60246	66a46	1MU2	Ol l
Bwldpe	17U 1	2a4S1uU	2aa6uSU	7S20102	2auuSU4	1M4u	Ol l
Bwldpe	170 1	U126S6S	U1a4S22	U2701Sa	U1uU07S	1M8u	Ol l
Bplh8&pe	a 1	6S6ua0	61aa7S	61uUU6	61U12u	1M16	Ol l
Bdqe biE	2Sa 1	UaU4S12	672U602	6716u1u	61auu74	7M42	Ol l
Bdqe biE	2Sa 2	2au2472	2a62S0S	2aU24aS	2a6U664	SMU2	Ol l
Bl. e qFp	u1 1	4742	4226	47Sa	42a2	1M4S	Ol l
3 wne dpe	1Su 1	U2470	U771U	U4u74	U7U2a	2M20	Ol l
3 wne dpe	1S6 1	07au2	0U1u1	0uuSS	0Uauu	7M7S	Ol l
3 wne dpe	111 1	62S1u4	67UuS2	64S4ua	6721Uu	1M0u	Ol l
3 w&Qdpe	47 1	7ua002u	7aU26Ua	7aa02U4	7a4a214	1M26	Ol l
3 w&Qdpe	44 1	6211U0Su	62u4U012	62U24SUU	624aU1Uu	SMUa	Ol l
3 wlr . F	12 1	246U614	2U2Ua7u	261S400	2U74SSa	2M10	Ol l
3 wlr . F	12 2	74S4u	7262u	77aau	77UUu	2M4S	Ol l
3 E8 lqFp	7U 1	1U4U220	1US6uS4	1U174uS	1U21u70	1M7U	Ol l
3 E8 lqFp	7U 2	1S470	au0a	a02a	1SS1U	7M07	Ol l
3 El. e dpe	U2 2	0247uu	01114u	01U7Sa	016a4u	SM44	Ol l
3 . r w8	Ua 2	120u2a2	12UUuua	12u4224	1202uS2	1M10	Ol l
3 . t t pl	67 2	1S6aUU77	1S0S6au4	1S6u6uau	1S6a6401	SM3a	Ol l
Thl t l. l dpe	1U6 1	u10	6u7	0SS	077	aM41	Ol l
Thl t l. l dpe	1U6 2	7SS	2u0	727	7S7	6M12	Ol l
Glr dpe	164 1	10U	2SS	2SS	1a2	0MU7	Ol l
Glr dpe	164 2	117	US	6S	04	4UM07	Ol l
Hwn. 8qFdpe	16S 1	0a2	u77	u10	u14	2MUu	Ol l
Hwn. 8qFdpe	16S 2	4u0	US7	400	4ua	2M06	Ol l
K. &e dpe	16U 1	a141146	aUU4120	a6u4u40	a46SS4S	7M3S	Ol l
K. &e dpe	16U 2	41S76ua	4SS762a	4S2770U	4S47U64	1M71	Ol l
&Fndpe	11U 1	6744uU0	6U11241	664aU6a	6US1uua	2M7U	Ol l
&Fndpe	11U 2	uaU0S7	u0172u	uu4u00	uu7a6a	1M7u	Ol l
&. F	U4 2	u4S0677	u72au6u	u41u11u	u7uU2S6	SMU0	Ol l
&. F	U6 2	1U2a01ua2	1U4461a0S	1U20u6SSa	1U74S6624	SM0S	Ol l
&. F	U0 2	7a0U0U6	7u04US7	7a620U2	7a7060S	1M4S	Ol l
glht i. F	u7 1	2U0	21U	240	24S	aM26	Ol l
Lpwn	2S6 1	126U412u	12U02410	120S60Su	1264441u	SMU4	Ol l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB:mbe r pI:J	LB1264S0	Ct plwi. I:J	swl Pw8
Lwr :Dwe t &p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 &pFi:Dwe t &p:&T :J	3 3 - S20	T &piq F:RwO. I:J	1
Twip:A:cœ p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwR&p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fql
Lpwn	2S0 1	1Sa010a7	1SuuU227	1S04Uaa6	1Su60601	1N3U	Ol l
Lpwn	2Su 1	USSU7040	US2U4U20	US4U0u62	US2UU70a	SM4S	Ol l
LqiEdpe	6 1	210u472	2711uu0	22uSS44	22U60uu	7N3a	Ol l
9 wkFpl dpe	24 2	2a1U4770	2u010600	2a2u46u7	2aSU2272	1N32	Ol l
9 wFkwFpl p	UU 2	7u766u1	7u46UUU	7u71S07	7u7u1S7	SM2S	Ol l
9 . 8hr npFbe	a4 1	auS20SU	1SS74u42	auu1076	aaS642u	1M1a	Ol l
9 . 8hr npFbe	aU 1	142047S1	14U11S14	14U12a72	1447204a	SM4U	Ol l
9 . 8hr npFbe	a6 1	1UU4176a	16S6a44u	1616u44u	1Ua26422	2M12	Ol l
9 . 8hr npFbe	a0 1	u6074US	aS462UU	a11UuuS	ua4U1aU	2M66	Ol l
9 . 8hr npFbe	au 1	22U62ua2	27124U4u	27004uu1	271U41S0	2M62	Ol l
mp. nhe dpe	1US 1	7S0	24S	7S0	2u4	17NU7	Ol l
mp. nhe dpe	1US 2	U7	67	77	US	7SNUU	Ol l
mqOvp8	6S 2	74644a	744Uu0	742162	7447aa	SM62	Ol l
NE. l t E. lbl	71 2	2S2au	1aa14	2S41U	2S2Sa	1M7S	Ol l
N. iwl l dpe	7a 2	a76a0SU	aS01aS7	aS14710	a1U1a0U	2N3u	Ol l
y E. ndpe	1S7 1	6S06107	62aUU11	67u1a46	62U121S	2NU2	Ol l
y E. ndpe	1S7 2	2a64S4u	2u66aa4	2a71u2U	2a2SaU6	1M6a	Ol l
DOwFndpe	4U 1	4Su0u4u	47U2176	472161S	42U7u6U	7M4S	Ol l
DOwFndpe	4U 2	17u214	17auUu	17U41U	170u2a	1M67	Ol l
Dp&pFdpe	u2 1	4u1S0	4u7U0	4uuS7	4u422	SM07	Ol l
Dp&pFdpe	00 2	17uS	12a0	141S	1762	4M71	Ol l
Dp&pFdpe	0u 2	4a7U	404U	4a77	4u01	2M24	Ol l
Dq&Q F	2u 1	2u1u6U17	2uuU1S41	2a10767a	2u070S6U	1M0U	Ol l
Dq&pl	1S0 1	77627a7	7U7uU77	7Uu241a	74a444u	7M77	Ol l
Dq&pl	1Sa 1	71a7762	724aU1S	7262772	727US6u	1M17	Ol l
D. ndpe	27 2	U1u26aau	US2047aS	U1u00aa0	U1726462	1M0u	Ol l
Dil. Fidpe	u6 1	1a762a2a	1a26aU2S	1a4u0SS0	1a7071U2	SNU6	Ol l
Dil. Fidpe	uu 1	16U464a4U	16ua16041	101S6642a	16u4u20SU	1M0u	Ol l
Db&bl	74 1	U67712	U60uS4	U60u74	U66710	SM46	Ol l
cplr dpe	1Ua 1	a1626au	au21UUa	a442002	a40U606	7M4a	Ol l
cplr dpe	1Ua 2	7a10167	7a11uU7	4S0106U	7a66a20	2M2a	Ol l
cEw&&pe	2S7 1	7S717S1	7SU011U	7S70071	7S42S4a	SM44	Ol l
cEw&&pe	2SU 1	0S66aa0	0S6a641	01a1Uua	01Sa4Sa	1N3S	Ol l
cqF	11u 1	22Saua0	2242264	22247u4	222UU1U	SM07	Ol l
cqwFdpe	40 1	7u4a767	7uUa46u	7u1aUU6	7u420aU	SNU4	Ol l
5 lwFdpe	27u 1	1S7uU4SU	1SU7U212	1Su12u47	1SU00u2S	2N3U	Ol l

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Lwr :Dwe t 8p:&T :J	3 3 - S20	&Fl ilbe Fpi:mwe p:J	Nu
3 8pFi:Dwe t 8p:&T :J	3 3 - S20	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	2S27 S0 12:2SJ72J2a	TwiwRq8p:mwe p:J	1UU3 3 - M1

Nwlwe pipl	9 wl l	3 ND1	3 ND2	3 ND7	3 ND9 pwF	3 NDy DT	5 Fqil
- wFwndpe	U1 2	U6SU47	U6126S	UUuaS1	U6S27U	SM22	Qt l
Yiiplr dpe	102 1	210	22U	1Uu	2SS	1uM16	Qt l
Yiiplr dpe	102 2	a4	0u	u7	uU	aM46	Qt l
Yiiplr dpe	106 1	174S0	14660	14741	1417u	4M67	Qt l
Yiiplr dpe	106 2	16u44	1Ua00	161aa	1674S	2M06	Qt l
Yiildpe	ua 1	116US424	124u1164	1274u770	121Uaa0U	7M60	Qt l
Yiildpe	ua 2	1226a26	11a2462	11aaau7	12S64U0	1MUS	Qt l
ZqFO	66 2	12Uu4U7	1220S4a	124a2a7	1244a72	1M7S	Qt l
ZqlQ Fdpe	aS 1	4Uu107u	40S20U7	46uUaS2	46U60au	1M41	Qt l
ZqlQ Fdpe	a1 1	au0007	aaUa4U	1S1S2S6	aa0a04	1M14	Qt l

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maq&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFUD

Parame&er	5 ass	3 Pp 1	3 Pp 2	3 Pp-	3 Pp 5 eaC	3 Pp 9 pt	RCA&s
c lumACAum	2072	2- .	1. 6	1y.	1y.	2SU1.	ql s
c C&mnCh	12171	1Sy2	y0.	16SS	1222	20U1y	ql s
c rseCAq	0. 72	8	2	8	6	. 0U04	ql s
BarAum	1- . 71	2- -	1. 8	410	26y	4yU2	ql s
BarAum	1- 071	4. S	2. S	62.	442	42U4y	ql s
BerhlIAum	y71	186	12y	2S4	10-	22U6y	ql s
BAsmu&E	2Sy71	. . 121S8	61. 1210	6. - 2S4-	6S6. 12-	8U S	ql s
BAsmu&E	2Sy72	- 1y81- -	- 2S6060	- 160y- .	- 1ySy4.	SU64	ql s
BrnmACe	8171	42S1	41. y	4S. 1	41- 0	1U80	ql s
3 aOmAum	1S871	2.	8	- -	22	. 0U2y	ql s
3 aOmAum	1S671	2y10	- 2- 4	- Sy2	- S81	. U1.	ql s
3 aOmAum	11171	- yy	4. .	482	44.	yU4.	ql s
3 alqAum	4- 71	616	461	1S. S	0Sy	4- US4	ql s
3 alqAum	4471	48S06	4. 2S6	. 02y1	. S1y1	12U 8	ql s
3 arbnC	1271	2- . yS. .	2- 66S. 8	2- 0y268	2- 68120	SU4-	ql s
3 arbnC	1272	28028	26S24	208S2	20. 18	. USS	ql s
3 ElnrACe	- . 71	128y648	128y621	120681-	128. - 61	SU 8	ql s
3 ElnrACe	- . 72	82S-	8- 44	8- 61	8- S-	1US.	ql s
3 ErnmAum	. 272	11- 0	1140	1100	11. -	1U8S	ql s
3 nbal&	. y72	14S	6-	. -	86	. . U42	ql s
3 nI I er	6- 72	- Sy0	1y6S	188S	2- 12	2yU4-	ql s
t hsI rnsAum	1. 671	10	8	10	14	- 4U60	ql s
t hsI rnsAum	1. 672	S	S	0	2	10- U21	ql s
FrbAum	16471	. S	60	- -	. S	- - U4	ql s
FrbAum	16472	0	20	2-	1y	. 6U02	ql s
GaOnIACAum	16S71	- -	. S	60	. S	- - U4	ql s
GaOnIACAum	16S72	12-	1- 0	yS	110	2SU6S	ql s
HnImAum	16. 71	00. . 6S1	8y. y18-	y- 08- 86	86y002-	yU6y	ql s
HnImAum	16. 72	4Sy44- .	422486-	- yy. 0S.	41S. SS1	2U8S	ql s
DCOAum	11. 71	. 660411	664828S	668S01S	6- - 21- 4	yUSy	ql s
DCOAum	11. 72	y482y6	y. 6. 66	y- 10. 1	y4. . - 8	1U4	ql s
DnC	. 472	008	6y4	. 44	602	10Uy	ql s
DnC	. 672	12- - 2	6S04	1SS12	y40-	- - U4S	ql s
DnC	. 072	- 61	210	108	2. 2	- 8U6	ql s
KrhI &aC	8- 71	266	2- 0	244	24y	6US0	ql s
LeaO	2S671	21SS	16. S	2- 0-	2S41	10U8	ql s

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On:7/14/2023 8:48:56 AM
Inst Id :P8

LB Number :	LB1264S0	o l era&nr :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maq&nr :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFUD

Parame&er	5 ass	3 Pp 1	3 Pp 2	3 Pp -	3 Pp 5 eaC	3 Pp 9 pt	RCA&s
LeaO	2S071	1061	16. 6	18y.	1001	6U06	ql s
LeaO	2S871	808.	0604	1S- 48	8y- 6	1. US-	ql s
LA&EAum	671	2Sy. 026	2- 241. 6	2- 4060-	22. . 8. 2	6U10	ql s
5 agCesAum	2472	14. S	0- -	y42	1S42	- . Uy	ql s
5 aCgaCese	. . 72	2- -	14S	1- S	168	- - Uy0	ql s
5 nIhbOeCum	y471	1842	88-	2S- 4	1. 86	- 8U8.	ql s
5 nIhbOeCum	y. 71	18y2	1142	26Sy	1881	- yUS1	ql s
5 nIhbOeCum	y671	2S10	1- 10	- 418	22. 1	40U4	ql s
5 nIhbOeCum	y071	118-	010	16. S	118-	- yU44	ql s
5 nIhbOeCum	y871	2y- 4	2SSy	4200	- S0-	- 0U11	ql s
NenOhmAum	1. S71	S	2S	0	y	114U.	ql s
NenOhmAum	1. S72	0	S	S	2	10- U21	ql s
NAqkel	6S72	8S	40	0-	60	26U4.	ql s
PEnsI Enrus	- 172	1SS	1SS	110	1S6	yU12	ql s
Pn&assAum	- y72	14866	1- . 0-	1- 6S0	14S1.	. U26	ql s
9 EnOAum	1S- 71	. 608y10	64. 4. 10	60- 68y2	62yS1S8	8U01	ql s
9 EnOAum	1S- 72	- 2. 62. 0	- 18yS28	- 14S616	- 1y. - SS	1U82	ql s
pqaCOAum	4. 71	- 6260. 2	4211SS-	422122S	4S1y6. 8	8U40	ql s
pqaCOAum	4. 72	1411- 6	14108.	1- 8- 8S	14S4- 4	1U2y	ql s
peleCAum	8271	716	711	- -	2	16SyU1.	ql s
peleCAum	0072	S	S	S	S	SUSS	ql s
peleCAum	0872	10	11	1.	14	21U1	ql s
pAAqnC	2871	1y84- 2	1y24y6	1y1y46	1y42y1	1U8.	ql s
pAver	1S071	- 42	- 10	242	- SS	10U.	ql s
pAver	1Sy71	2. S	20.	2y2	202	0U0S	ql s
pnOAum	2- 72	40- 2S	4. 28S	4- 2y8	4. 2yy	4U44	ql s
p&nC&Aum	8671	222.	1. S8	- 46S	2- y8	41U16	ql s
p&nC&Aum	8871	14286	8021	2yS- 2	10- 46	6SU1	ql s
pulfur	- 471	- S1y0-	- S- 811	- S1. . 8	- S2440	SU4S	ql s
i erbAum	1. y71	08y8- - y	8y8646y	y42y08y	8001. - 2	8Uy8	ql s
i erbAum	1. y72	4S40y- -	4S0846-	- y61. S8	4S2y- S1	1U1	ql s
i EallAum	2S- 71	1442	1410	140.	144.	2US-	ql s
i EallAum	2S. 71	- 826	- 2. y	- . 10	- . - 4	8US-	ql s
i AC	11871	11. S	1160	118-	1160	1U4-	ql s
i A&aCAum	4071	. S8	4SS	y. y	622	40Uy	ql s
RraCAum	2- 871	yS8	. . 8	1626	1S- 1	. 2U00	ql s

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LB Number :	LB1264S0	o l era&ar :	Jaswal
Lab pamI le D :	3 3 BS20	DCs&umCe&Name :	P8
3 IAeC&pamI le D :	3 3 BS20	t Au&nC Maqa&ar :	1
t a&e T i Ame c qduAeO :	2S2- 7S0712 2S:- 6:S6	t a&aMAe Name :	1. 63 3 BFU0

Parame&er	5 ass	3 Pp 1	3 Pp 2	3 Pp -	3 Pp 5 eaC	3 Pp 9 pt	RCA&s
VaCaOAum	. 172	4S	2S	2-	28	- 8U 8	ql s
Y&erbAum	10271	2.	0.	60	. 6	48U22	ql s
Y&erbAum	10272	- y	28	22	- S	28U6.	ql s
Y&erbAum	10671	1S10	118-	11S8	11S-	0U 0	ql s
Y&erbAum	10672	11- - -	1148-	1Syyy	11202	2U2S	ql s
Y&&Aum	8y71	1S- - 800.	118. 8S. 2	12S062- 8	11424- . .	8U28	ql s
Y&&Aum	8y72	12. - 11S	126- 188	12- - 0- 1	12. SS1S	1U2S	ql s
ZACq	6672	18-	21-	16-	180	1- U48	ql s
ZAqnCAum	yS71	02.	. 60	y. S	040	2. U08	ql s
ZAqnCAum	y171	142	1. S	4SS	2- 1	6- U0S	ql s

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Prep Standard - Chemical Standard Summary

Order ID : O346M

Test : e t a l s C. PSG e F C. B P P

Prepbatch ID : S1 5639220

Sequence ID/Qc Batch ID: P1 5, 24M70 P1 5, 24M70

Standard ID :
e S749350 e S7692, 0 e S725560 e S725520 e S725, 60 e S725, 70 e S725, 80 e S725350 e S7253, 0 e S725360 e S725320 e S72, 3
70 e S72, 380 e S72, 390 e S72, 4M0 e S72, 450 e S72, 4, 0 e S72, 430 e S72, 440 e S72, 460 e S72, 470

Chemical ID :
e 44M80 e 42670 e 47M70 e 47280 e 48, 60 e 48740 e 48760 e 48720 e 48770 e 488M0 e 48850 e 488, 0 e 48830 e 48840 e 48860 e 48820
e 48880 e 48890 e 48950 e 6M590 e 6M, M0 e 65840 e 659, 0 e 65930 e 6, MM0 e 6, M50 e 6, , 40 e 6, , 70 e 6, , 90 e 6, 3M0 e 6, 350 e 6, 440
e 6, 460 e 6, 890 e 6, 930 e 6, 980 e 63M50 e 63870 e 64480 e 646, 0 e 64280 e 64290 e 64730 e 66, 50 e 66260 e 66870 e 66970 e 66990
e 62M80 e 62M20W, 2M20

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
W45	514:HCL	MP74325	04/53/9092	03/07/9092	Aa-aTet:r akl a	s onc	s onc	Nin:Hc 04/53/9092

FROM 5. 00r00000l :of:+ 9W0W6:. 00r00000l :of:M. 4. 9::=:Fina :Quantity19000r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5W3	515Hs S2	MP7. 3W9	0W92/9092	59/50/9092	j Jvc-c8:BkaaK	s onc	s onc	Aa-aTet:r akl a 0W92/9092

FROM 59. 0r00000l :of:M. . b7:6:59. 0r00000l :of:+ 9W0W:=:Fina :Quantity19. 00r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5599	BCPMA:Cj LBN: NLj s ( )A0/BCN/CCNE	MP7W55.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 9. m00000l :of:M. W02:6:439. m00000l :of:+ 9W0W6:. 0m00000l :of:M. . 37::=:Fina :Quantity1. 000m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9309	Ab:BCPMA	MP7W55W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 5m00000l :of:M. 9b3:6:9m0000l :of:M. 905:6:9m0000l :of:M. 93b:6:. m00000l :of:M. 532:6:. m00000l :of:M. 900:6:. m00000l : of:M. 4Wb:6:73m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. b	BCV)AFj ME	MP7W59.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 9m00000l :of:M. 932:6:3bm00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5549	BCAj :BCPMA	MP7W597	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_C2:)j E	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:30m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
5542	BCAj N:BCPMA	MP7W59b	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_O2:)j E	Nin:Hc 07/02/9092

FROM 50m00000l :of:M. 944:6:50m00000l :of:M. 94. :6:b0m00000l :of:MP7W55. ::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
b70	BCPMA:APB(_:ASLmN	MP7W525	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _wv_O2:)j E	Nin:Hc 07/02/9092

FROM 0m4. 000l :of:M4bb2:6:. m00000l :of:M440b:6:. m00000l :of:M. . W:6:23m. 000l :of:MP7W55. ::=:Fina :Quantity1. 0m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W0	MG:50PPM:FSR:wUs _	MP7W529	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/02/9092

FROM 0n05000l :of:M. 4W0:6:3n03000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2b34	wUs _:900PPN	MP7W52.	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/02/9092

FROM 9n00000l :of:M. 925:6:9n00000l :of:MP7W529:6:3W00000l :of:MP7W55. ::=:Fina :Quantity1500n000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2302	BAA:2PPM	MP7W52W	07/02/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/02/9092

FROM . m00000l :of:M. . 37:6:7. m00000l :of:M. 44b:6:570m00000l :of:MP7W55. ::=:Fina :Quantity19. 0m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2347	A7)AFj M,W090,900mbE	MP7W027	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_O2:)j E	Nin:Hc 07/59/9092

FROM 5m00000l :of:M4b7. :6:5m00000l :of:M4bb4:6:5m00000l :of:M4bbW6:5m00000l :of:M. 993:6:5m00000l :of:M. 920:6:5m00000l : of:M. 9b3:6:50m00000l :of:M4bbb:6:50m00000l :of:M. 539:6:50m00000l :of:M. . 33:6:9m00000l :of:M. 053:6:9m00000l :of: M. 090:6:9m0000l :of:M. 472:6:4m00000l :of:M4bb5:6:4m00000l :of:M. 2b7:6:4m00000l :of:M. 905:6:4m00000l :of:M. 93b:6: . m00000l :of:M. W0W6:. 0m00000l :of:M. 205:6:b97m00000l :of:+ 9W0W6:3m00000l :of:M4b35:6:3m00000l :of:M. 5b4:6: 3m00000l :of:M. . 95:6:3m00000l :of:M. 532:6:3m00000l :of:M. 900:6:3m00000l :of:M. 4Wb::=:Fina :Quantity15000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
234b	AW)AFj M,W090,900rbE	MP7W02b	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:4bm0000l :of:+ 9W0W6:. 0r00000l :of:MP7W027::=:Fina :Quantity1500r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2343	A.)AFj M,W090,900rbE	MP7W023	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:72m0000l :of:+ 9W0W6:9. r00000l :of:MP7W027::=:Fina :Quantity1500r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 4	A4)AFj M,W0090,900rbE	MP7W940	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:bW00000l :of:+ 9W0W6:59m0000l :of:MP7W927::=:Fina :Quantity1500r000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 5	A2)AFj M,:W0090,900rbE	MP7W945	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5r00000l :of:M. . 33:6:bbm0000l :of:+ 9W0W6:50r00000l :of:MP7W92b::=:Fina :Quantity1500r000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. .	A9CSs C)AFj M,W090,900mE	MP7W949	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0. 000l :of:M47Wb:6:0m0. 000l :of:M4b9. :6:0m0. 000l :of:M4b74:6:0m0. 000l :of:M4b7W6:0m0. 000l :of:M4b77:6:0m0. 000l : of:M4bb5:6:0m0. 000l :of:M4bb. :6:0m0. 000l :of:M4bb3:6:0m0. 000l :of:M. 5b4:6:0m0. 000l :of:M. 993:6:0m0. 000l :of:M. 920:6: 0m0. 000l :of:M. 4W3:6:0m50000l :of:M4W 7:6:0m50000l :of:M4b35:6:0m50000l :of:M. 994:6:0m50000l :of:M. 9b3:6:0m50000l : of:M. . 95:6:0m9. 000l :of:M4bb2:6:0m9. 000l :of:M4bbW6:0m9. 000l :of:M4bbb:6:0m9. 000l :of:M. 539:6:0m9. 000l :of:M. 997:6: 0m9. 000l :of:M. 93b:6:0m0000l :of:M4bb4:6:0m0000l :of:M. 2b7:6:5m9. 000l :of:M4b7. :6:5m9. 000l :of:M4bb0:6:5m9. 000l : of:M4bb9:6:9m0000l :of:M. 532:6:9m0000l :of:M. 900:6:9m0000l :of:M. 905:6:9m0000l :of:M. 4Wb:6:9m0000l :of:M. W0W6: 99. m5. 000l :of:+ 9W0W6:. m00000l :of:M. . 33::=:Fina :Quantity19. 0m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. W	A9)AFj M,W090,900mE	MP7W942	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5m00000l :of:M. . 33:6:3bm00000l :of:+ 9W0W6:0m0000l :of:MP7W949::=:Fina :Quantity1500m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23. 7	A5)AFj M,W090,900mbE	MP7W044	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M. W0W6:5m00000l :of:M. . 33:6:bbm0000l :of:+ 9W0W6:50m00000l :of:MP7W042::=:Fina :Quantity1500m000::l

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W5	CCV	MP7W04.	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM 0m0000l :of:M4b7. :6:0m0000l :of:M4bb4:6:0m0000l :of:M4bbW6:0m0000l :of:M. 053:6:0m0000l :of:M. 993:6:0m0000l : of:M. 920:6:5m00000l :of:M. 090:6:50m00000l :of:M. . 33:6:59m4. 000l :of:M. 93b:6:59m0000l :of:M. 4W3:6:9m00000l :of: M4bb5:6:94m3. 000l :of:M. 532:6:94m3. 000l :of:M. 900:6:94m3. 000l :of:M. 905:6:94m3. 000l :of:M. 4W6:6:9. m00000l :of: M. 205:6:4m0000l :of:M4b35:6:4m0000l :of:M. 5b4:6:4m0000l :of:M. . 95:6:4m3. 000l :of:M. 9b3:6:. m00000l :of:M. 539:6: . m00000l :of:M. W0W6:b0. mb0000l :of:+ 9W0W:=:Fina :Quantity15000m000::l

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
23W4	CSs CrnCAA:APB(_	MP7W047	07/07/9092	07/94/9092	Aa-aTet:r akI a	s onc	M_wj LACPBP _ww_C2:)j E	Nin:Hc 07/59/9092

FROM

0rn. 000l :of:M47Wb:6:0rn. 000l :of:M4b9. :6:0rn. 000l :of:M4b74:6:0rn. 000l :of:M4b7W6:0rn. 000l :of:M4b77:6:0rn. 000l :
of:M4bb5:6:0rn. 000l :of:M4bb. :6:0rn. 000l :of:M4bb3:6:0rn. 000l :of:M. 5b4:6:0rn. 000l :of:M. 993:6:0rn. 000l :of:M. 920:6:
0rn. 000l :of:M. 472:6:0m0000l :of:M4W 7:6:0m0000l :of:M. 994:6:0m0000l :of:M. 9b3:6:0m0000l :of:M. . 95:6:5rn. 000l :
of:M4707:6:5rn. 000l :of:M4bb2:6:5rn. 000l :of:M4bbW6:5rn. 000l :of:M4bbb:6:5rn. 000l :of:M4b35:6:5rn. 000l :of:M. 539:6:
59m0000l :of:M. 532:6:59m0000l :of:M. 900:6:59m0000l :of:M. 905:6:59m0000l :of:M. 4Wb:6:5. 5rn. 000l :of:+ 9W0W6:
9m0000l :of:M4bb4:6:9m0000l :of:M. 2b7:6:9m0000l :of:M. W0W6:. rn00000l :of:M. 93b:6:. rn00000l :of:M. . 33:6:Wn. 000l :
of:M4b7. :6:Wn. 000l :of:M4bb0:6:Wn. 000l :of:M4bb9::=:Fina :Quantity1 9. 0rn000::l

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	P2-MEB683701	08/21/2023	09/25/2020 / jaswal	08/27/2019 / BIN	M4408

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	P2-V685591	12/05/2023	11/21/2020 / bin	08/21/2020 / bin	M4707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Boron (B)	031921	03/19/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5229

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	073021	07/30/2024	05/08/2023 / jaswal	07/05/2022 / bin	M5230

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	R2-MEB695520	11/26/2023	11/27/2022 / jaswal	07/06/2022 / jaswal	M5231

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	05/01/2022 / jaswal	04/01/2022 / jaswal	M5301

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	S2-MEB709511	03/06/2024	03/07/2023 / jaswal	04/01/2022 / jaswal	M5448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	09/07/2023	03/26/2023 / Al-Terek	02/24/2022 / Al-Terek	M5452

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	P2-MEB683701
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**100.0 ± 0.7 µg/mL**	**Arsenic, As**	**40.00 ± 0.21 µg/mL**
Cadmium, Cd	**49.98 ± 0.22 µg/mL**	**Lead, Pb**	**20.00 ± 0.09 µg/mL**
Selenium, Se	**10.00 ± 0.06 µg/mL**	**Thallium, Tl**	**50.02 ± 0.26 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 21, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 21, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

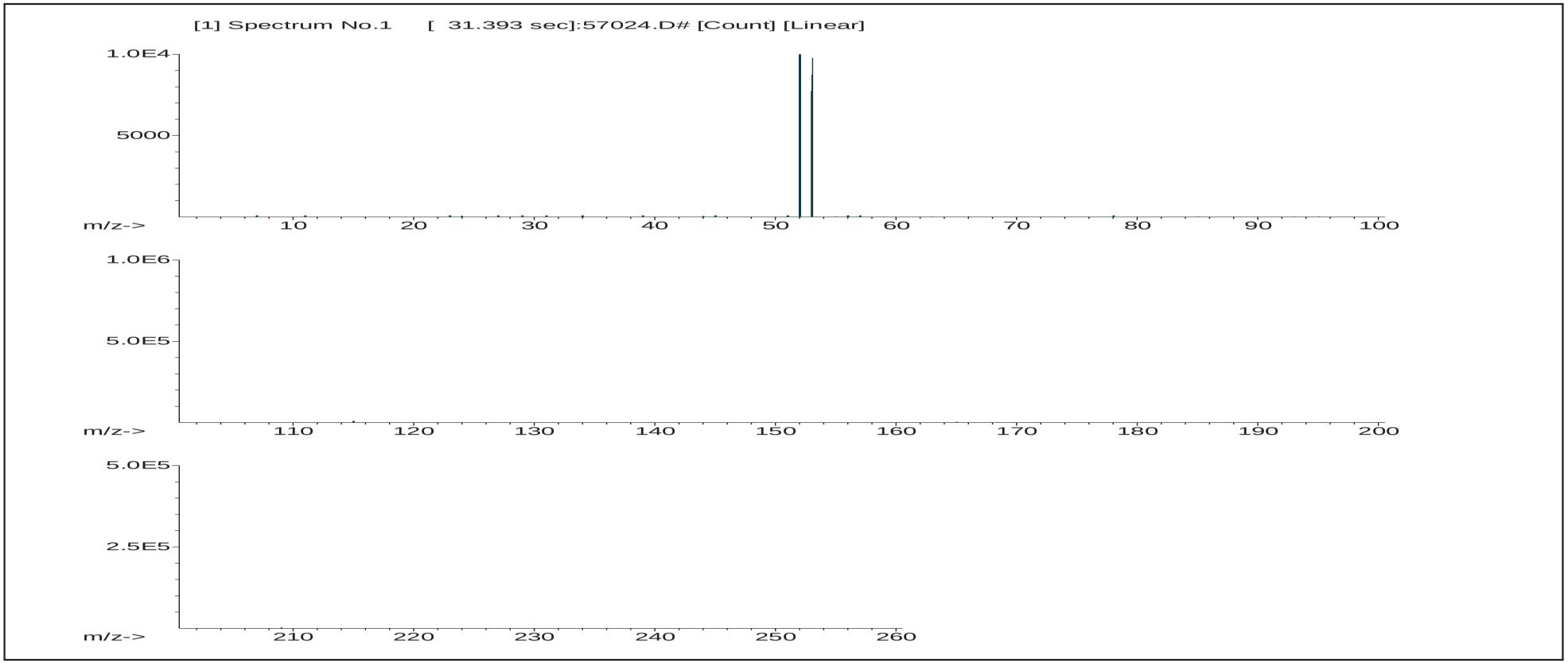
926

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58024**	19410105	Nitric Acid
Lot Number:	**082620**		
Description:	**Chromium (Cr)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	082623		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Chromium (III) nitrate nonahydrate (Cr)	58124	121619	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



927

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFICATE OF ANALYSIS

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	P2-V685591
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9939%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **1002 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000273	M	Eu	<	0.000118	O	Na		0.010915	M	Se	<	0.001167	M	Zn	<	0.006080
M	Al		0.006218	M	Fe		0.023106	M	Nb	<	0.001479	O	Si		0.036363	M	Zr	<	0.003181
M	As	<	0.000540	M	Ga	<	0.009451	M	Nd	<	0.000118	M	Sm	<	0.000118				
M	Au	<	0.000191	M	Gd	<	0.000118	M	Ni	<	0.003169	M	Sn	<	0.000733				
M	B	<	0.002950	M	Ge	<	0.000434	M	Os	<	0.000150	M	Sr		0.000060				
M	Ba	<	0.001024	M	Hf	<	0.000118	O	P	<	0.056000	M	Ta	<	0.000118				
M	Be	<	0.000118	M	Hg	<	0.000170	M	Pb		0.000241	M	Tb	<	0.000118				
M	Bi	<	0.000363	M	Ho	<	0.000118	M	Pd	<	0.000140	M	Te	<	0.002236				
O	Ca		0.011869	M	In	<	0.000118	M	Pr	<	0.000118	M	Th	<	0.000118				
M	Cd	<	0.000145	M	Ir	<	0.000118	M	Pt	<	0.000118	M	Ti		0.001386				
M	Ce	<	0.000245	M	K		0.002082	M	Rb	<	0.000118	M	Tl	<	0.000118				
M	Co	<	0.000119	M	La	<	0.000118	M	Re	<	0.000118	M	Tm	<	0.000118				
O	Cr		0.017206	M	Li	<	0.000501	M	Rh	<	0.000118	M	U	<	0.000395				
M	Cs		0.000477	M	Lu	<	0.000118	M	Ru	<	0.000118	s	V	<					
M	Cu	<	0.002021	M	Mg		0.000612	n	S	<		M	W		0.000174				
M	Dy	<	0.000118	M	Mn		0.000649	M	Sb		0.008706	M	Y	<	0.000118				
M	Er	<	0.000118	O	Mo		0.007182	M	Sc	<	0.000118	M	Yb	<	0.000118				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M4768 R: 10/28/2020 (BH)

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

932

CERTIFIED WEIGHT REPORT:

Part Number: 57028
Lot Number: 072420
Description: Nickel (Ni)

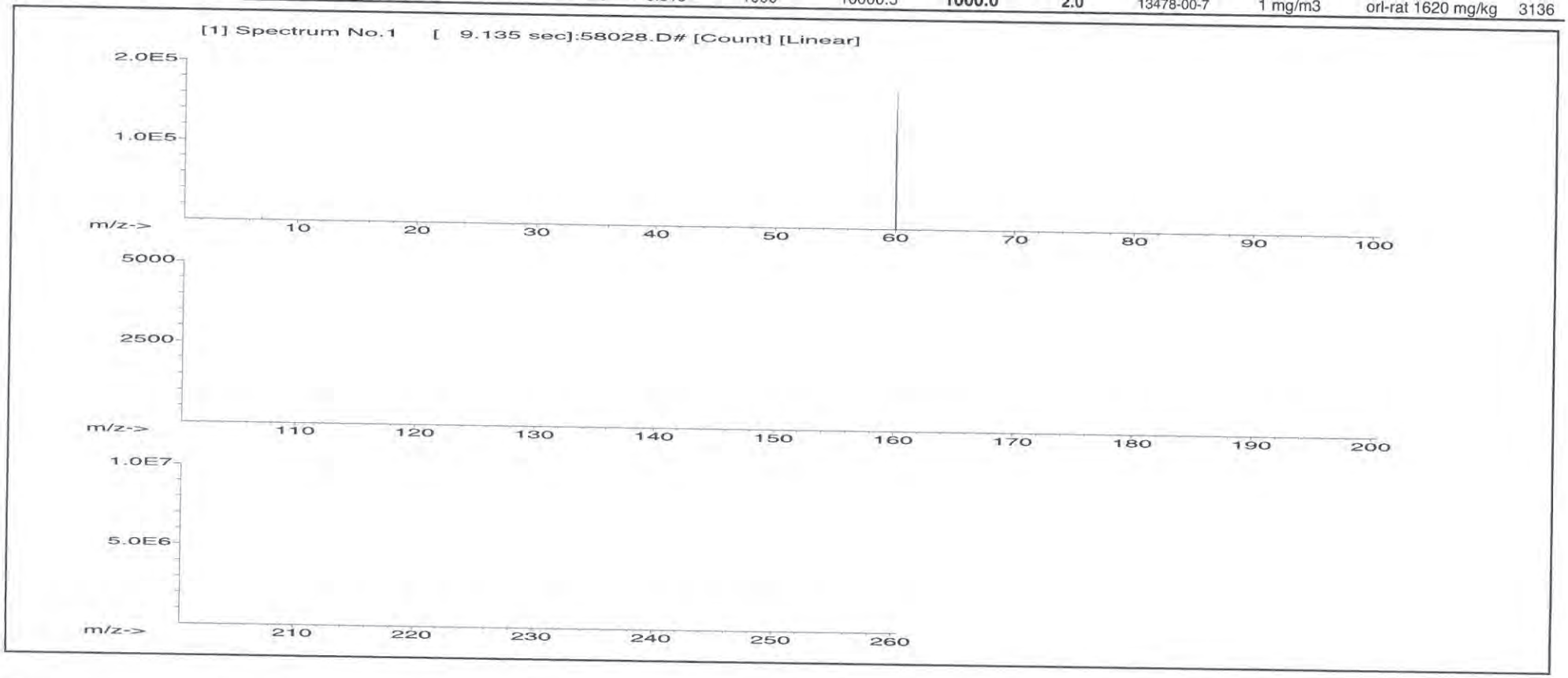
Expiration Date: 072423
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 23060
Volume shown below was diluted to (mL): 2000.02

	Lot #	Solvent:	
	19410105	Nitric Acid	
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 072420
Reviewed By: Pedro L. Rentas 072420

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel (II) nitrate Hexahydrate (Ni)	58128	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



933

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

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AR-1539 Certificate Number
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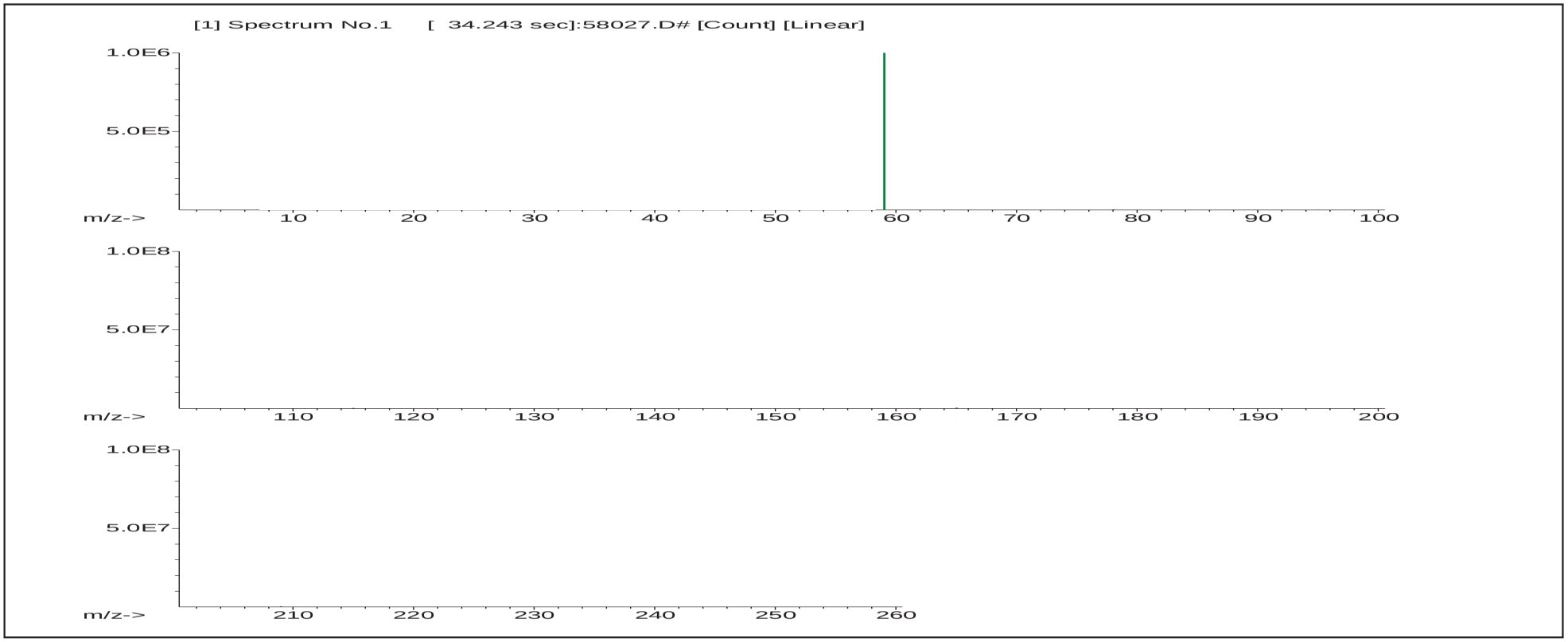
934

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57027**	19410105	Nitric Acid
Lot Number:	**020821**		
Description:	**Cobalt (Co)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	020824		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty

Formulated By:	Lawrence Barry	020821
Reviewed By:	Pedro L. Rentas	020821

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 mg/kg	3113



935

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

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AR-1539 Certificate Number
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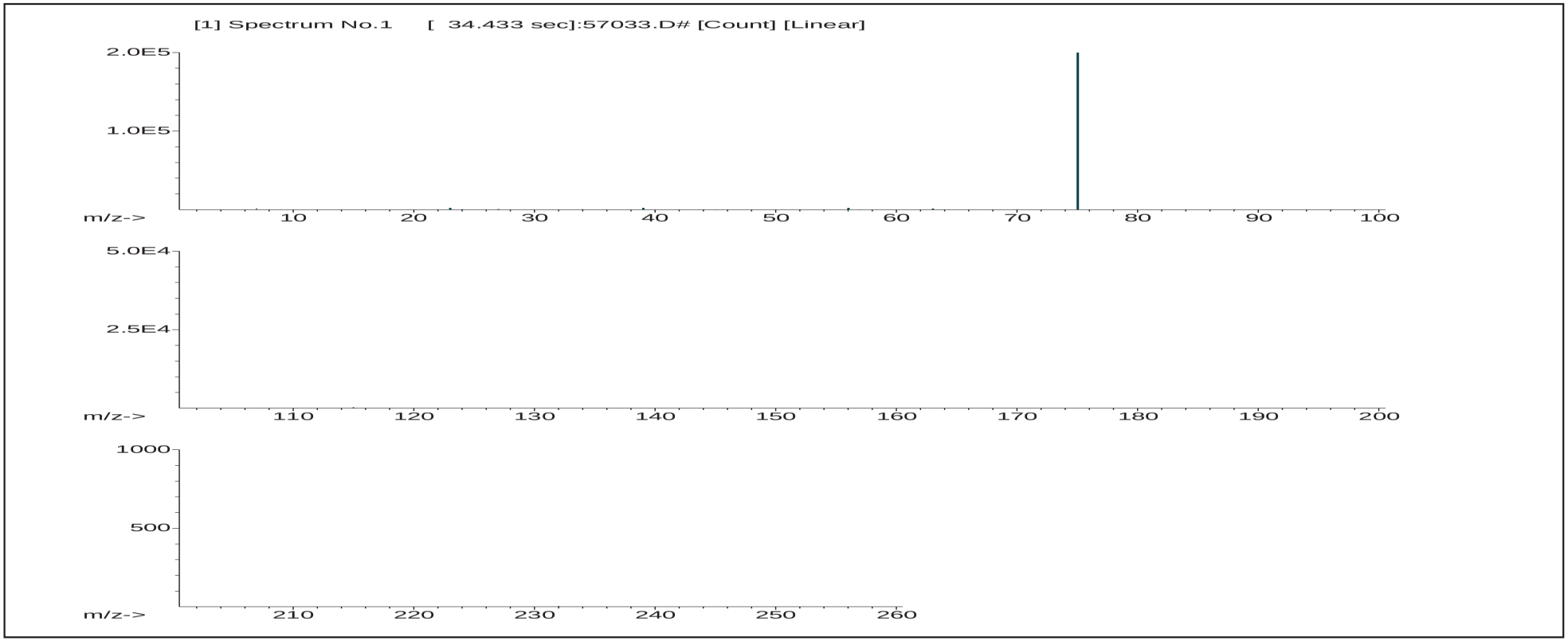
CERTIFIED WEIGHT REPORT:

936

		Lot #	Solvent:	
Part Number:	**57033**	19410105	Nitric Acid	
Lot Number:	**012521**			
Description:	**Arsenic (As)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	012524			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Arsenic (As)	58133	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



937

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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938

CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 031921
Description: Boron (B)

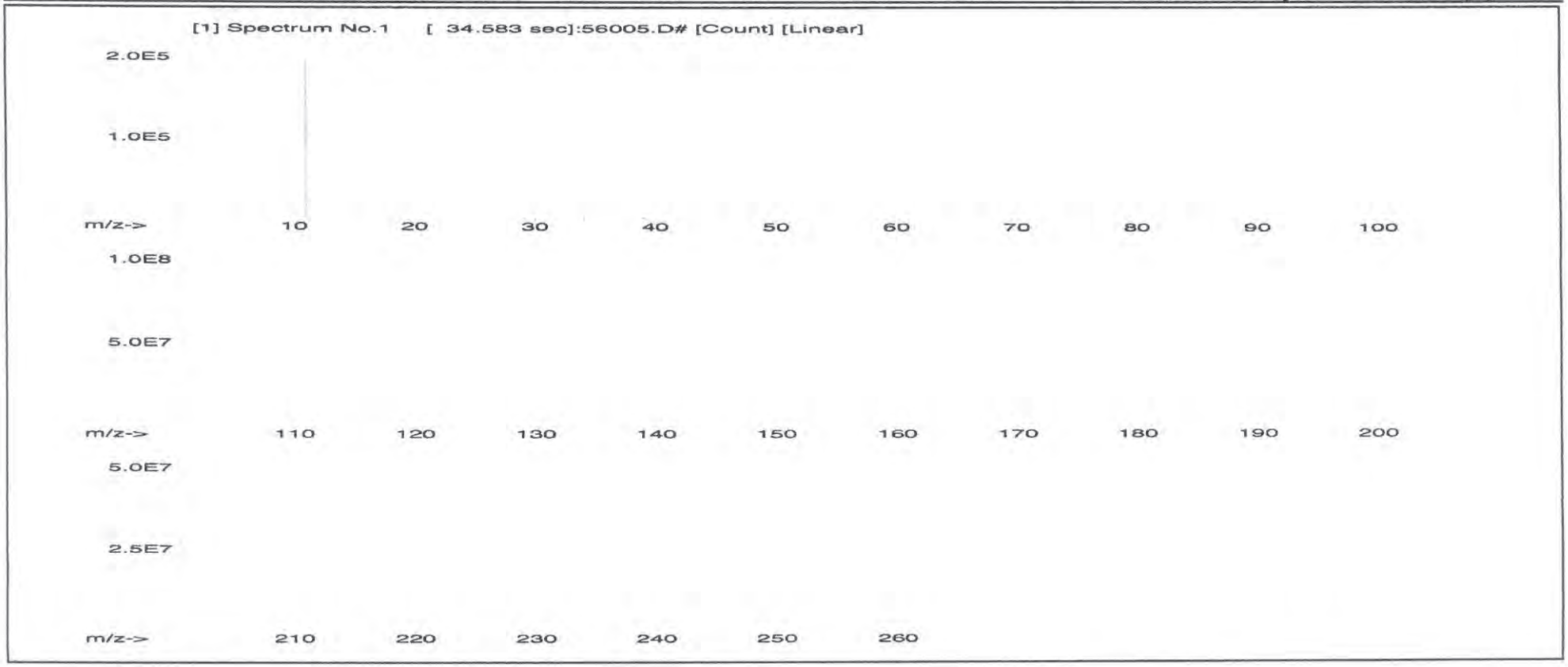
Lot #	Solvent:	
MKBQ8597V	Ammonium hydroxide	
2.0%	40.0 (mL)	Ammonium hydroxide

Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 031921

Pedro Rentas
Reviewed By: Pedro L. Rentas 031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



939

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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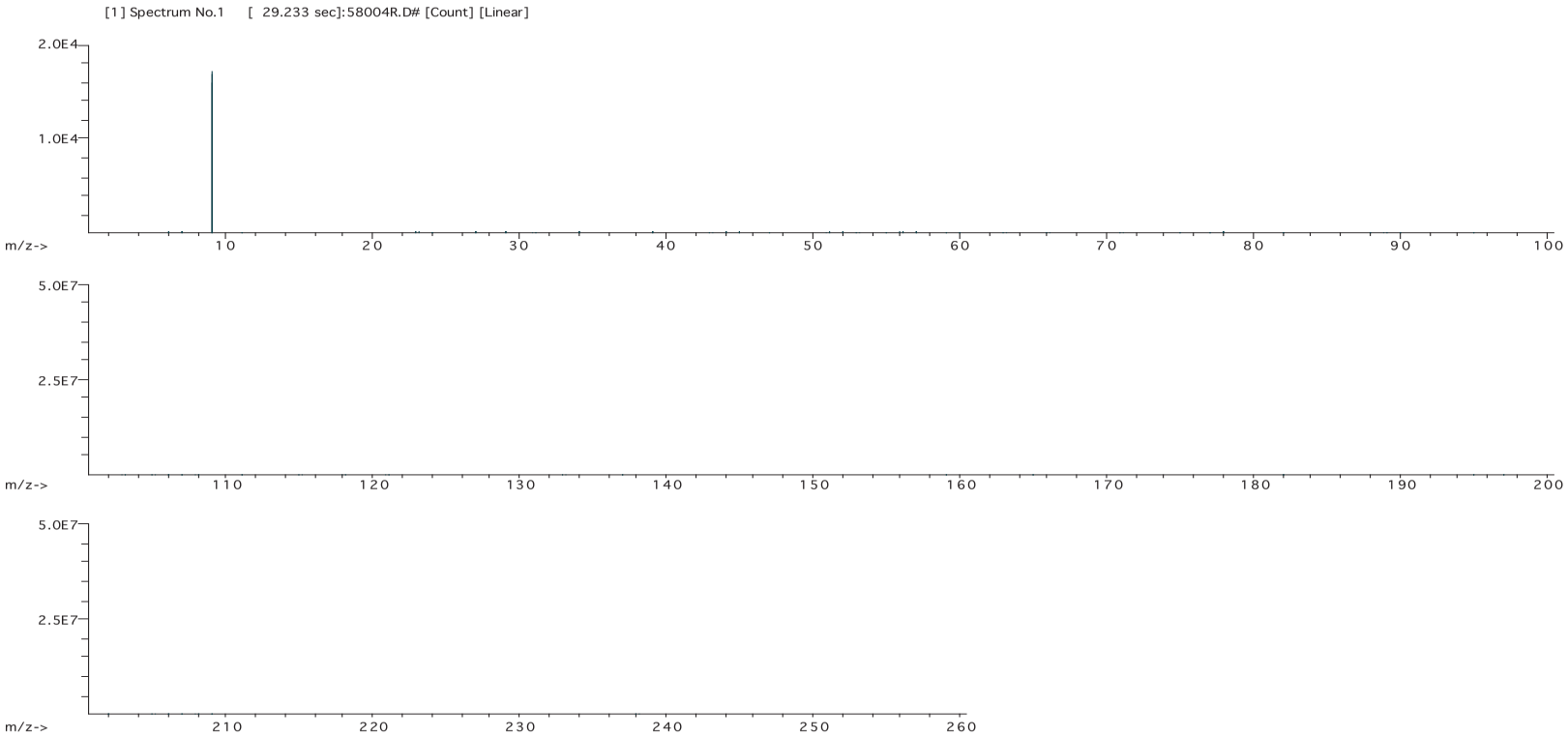
CERTIFIED WEIGHT REPORT:

940

				Lot #	**Solvent:**	
Part Number:	**57004**			19410105	Nitric Acid	
Lot Number:	**030221**					
Description:	**Beryllium (Be)**					
				2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	030224					
Recommended Storage:	Ambient (20 ºC)					
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	23060		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Beryllium acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



941

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

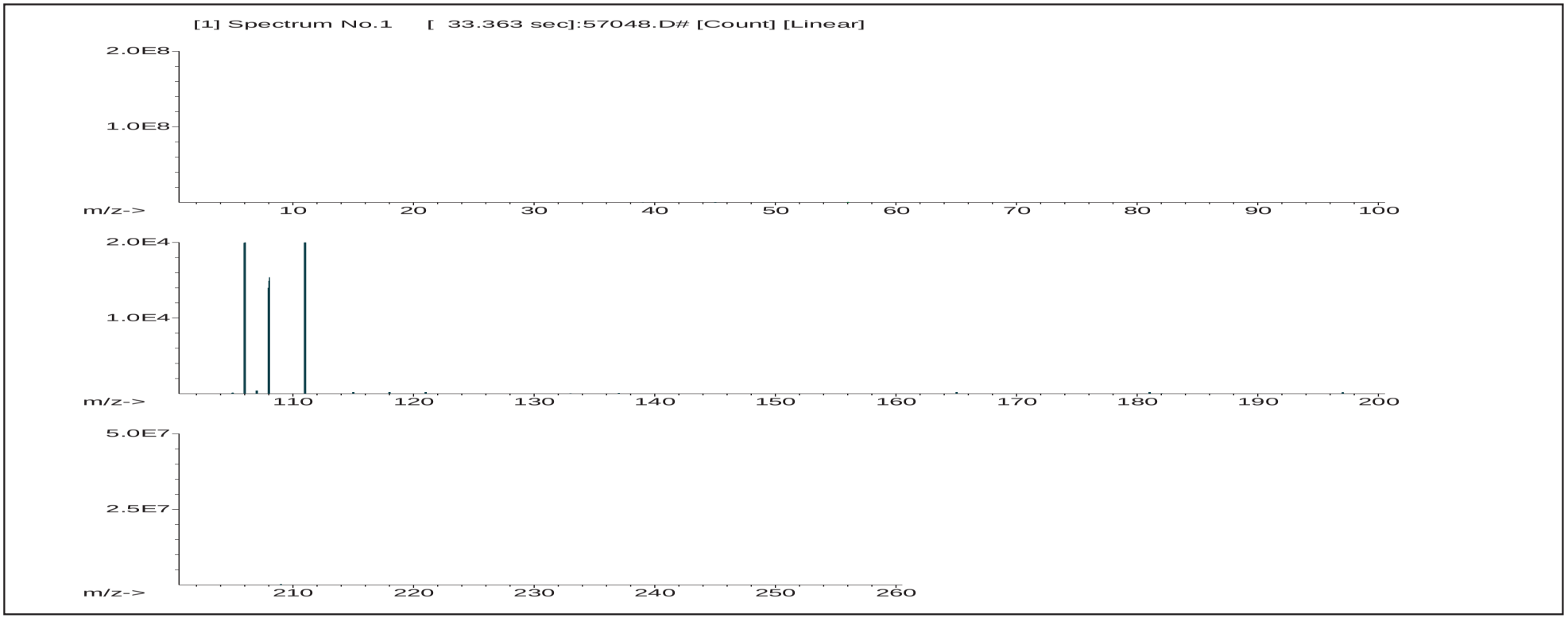
Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

942

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



943

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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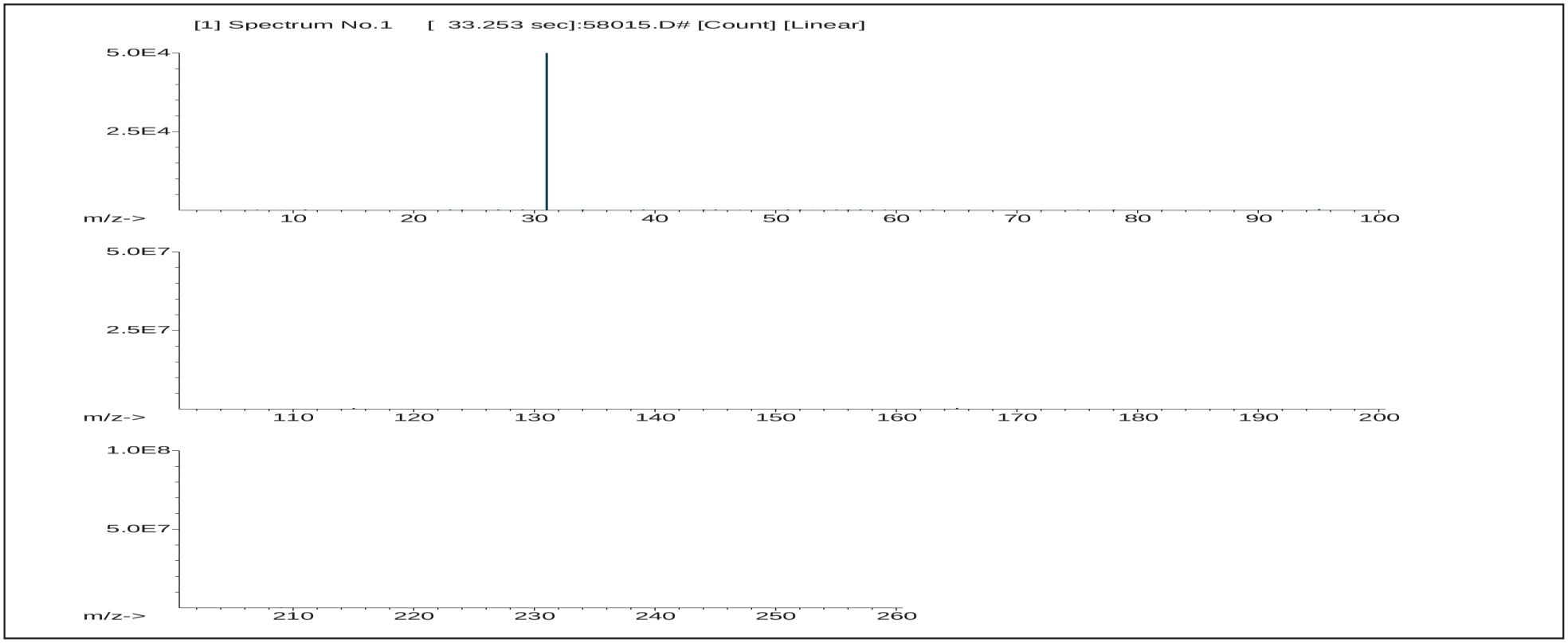
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57015**	20370011	Nitric Acid	
Lot Number:	**051121**			
Description:	**Phosphorous (P)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	051124			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	051121
Reviewed By:	Pedro L. Rentas	051121

944

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



945

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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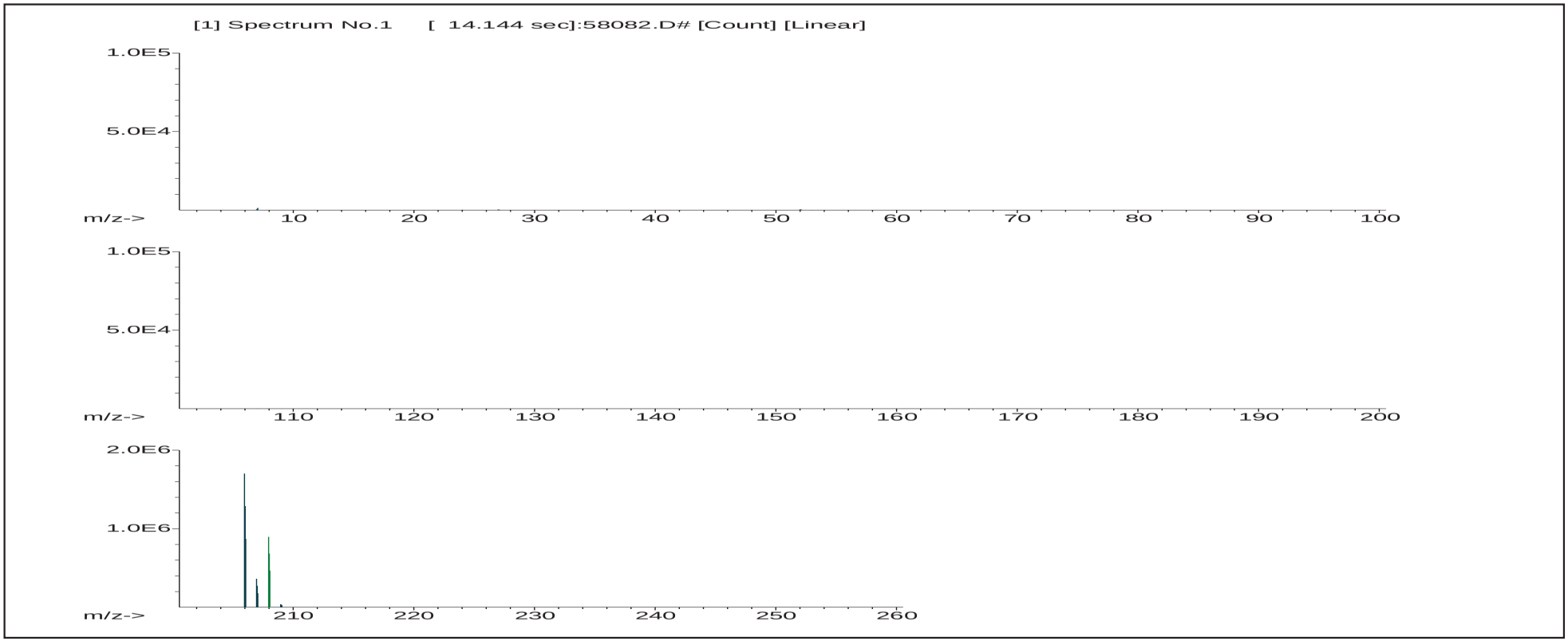
946

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57082**	20370011	Nitric Acid	
Lot Number:	**062221**			
Description:	**Lead (Pb)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	062221
Reviewed By:	Pedro L. Rentas	062221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



947

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

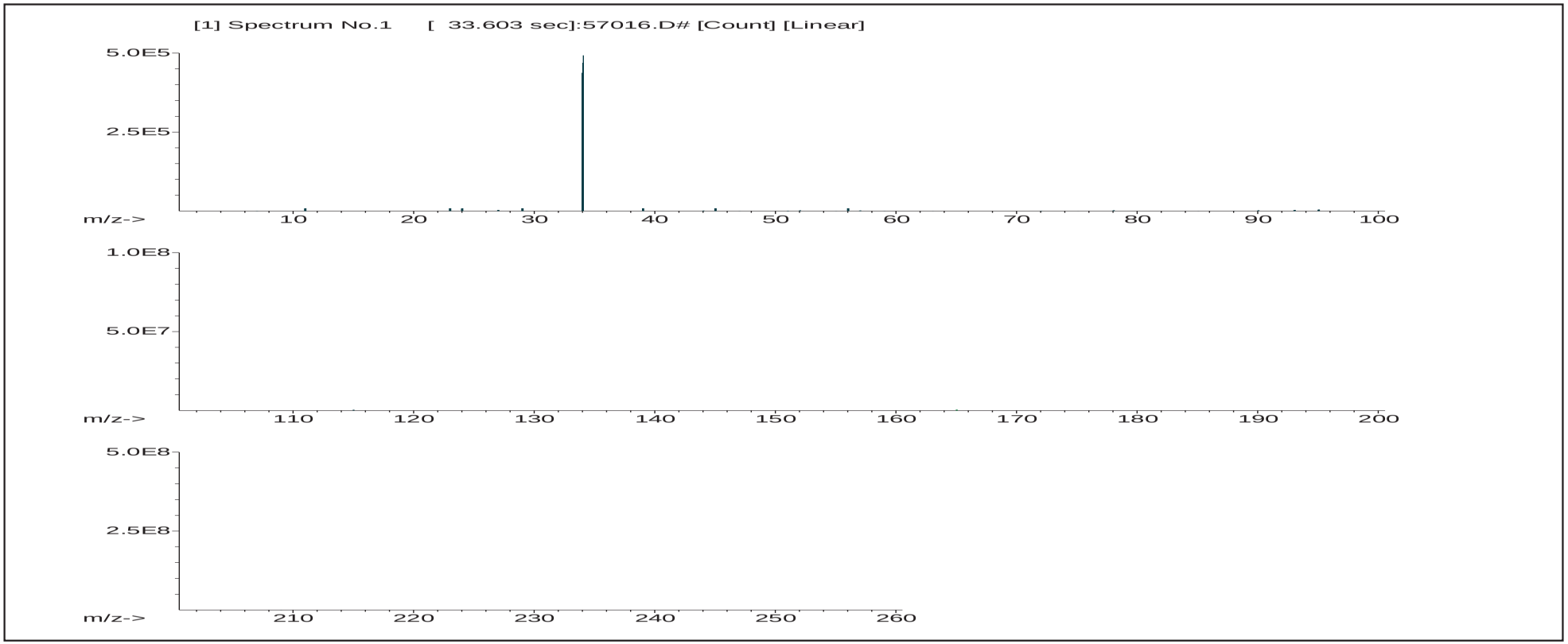
		Lot #	Solvent:
Part Number:	**57016**	051721	ASTM Type 1 Water
Lot Number:	**051721**		
Description:	**Sulfur (S)**		

Expiration Date: 051724
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

948

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



949

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

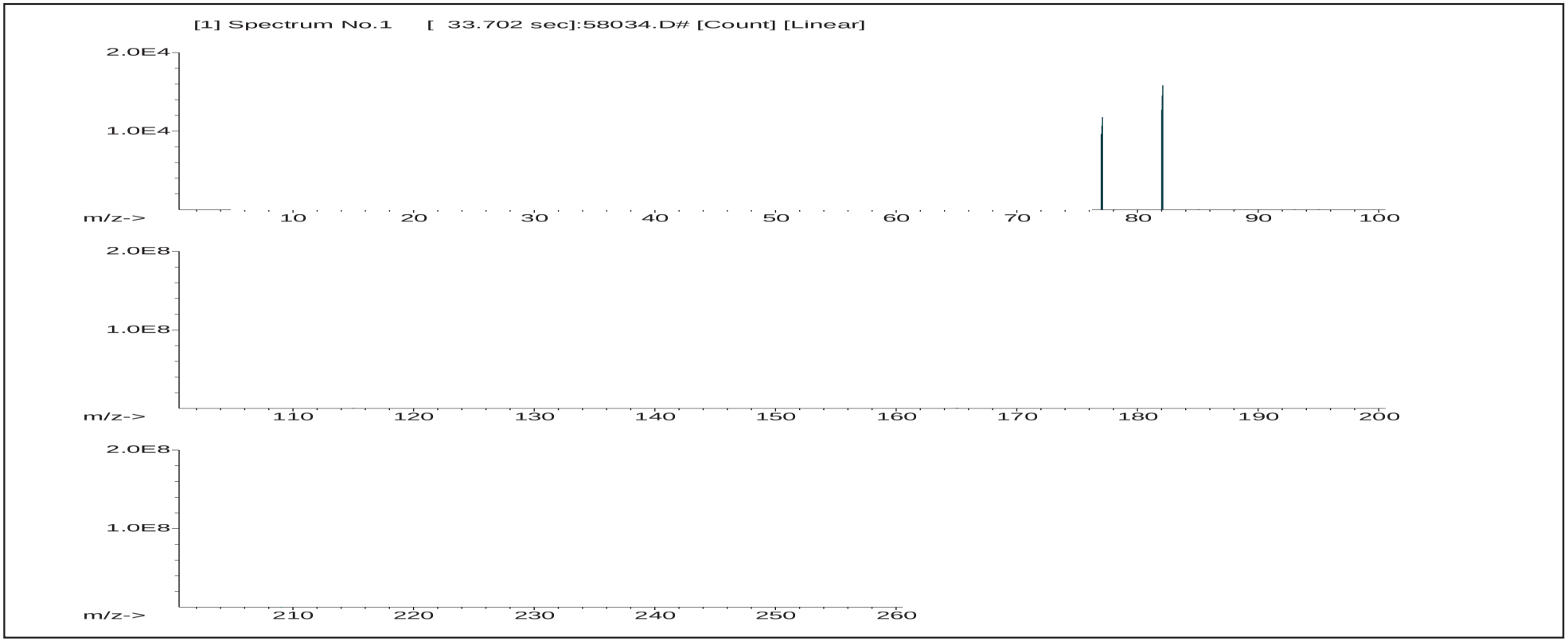
Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

950

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



951

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

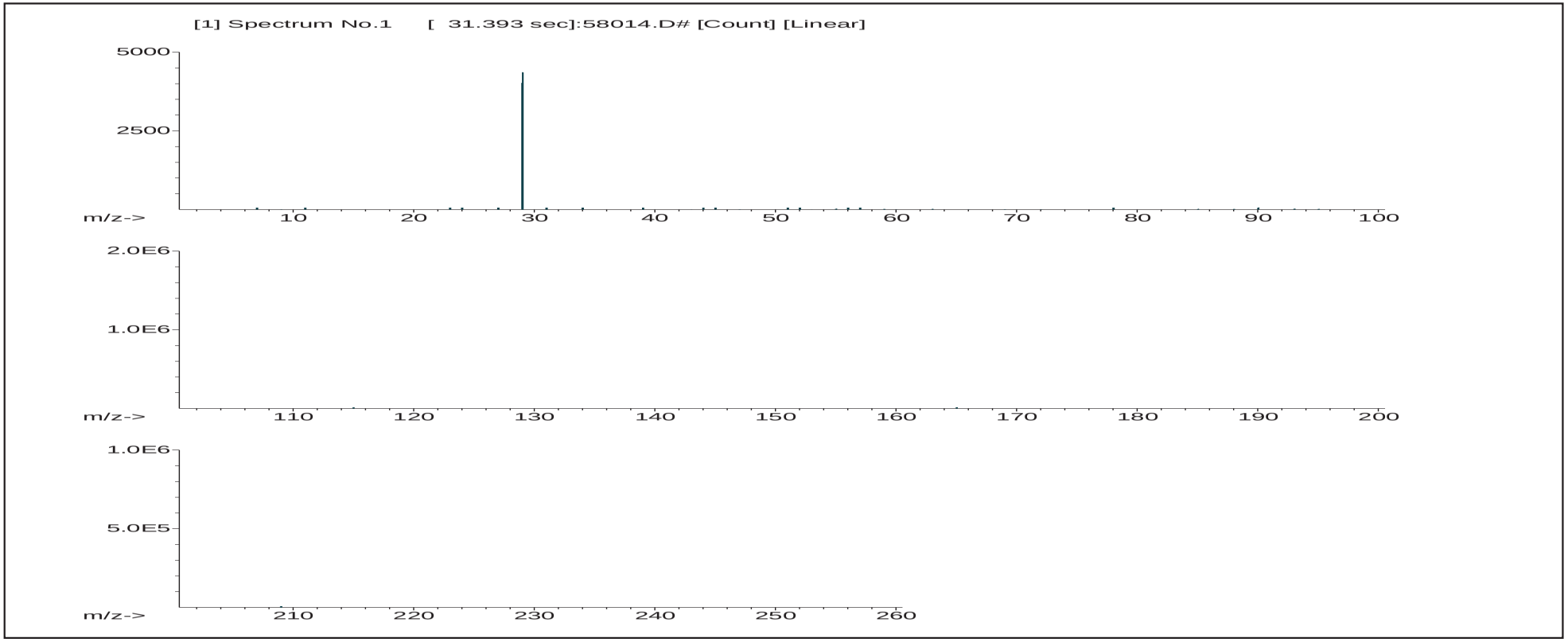
952

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



953

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

954

		Lot #	Solvent:
Part Number:	**57047**	20370011	Nitric Acid
Lot Number:	**072921**		
Description:	**Silver (Ag)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	072924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

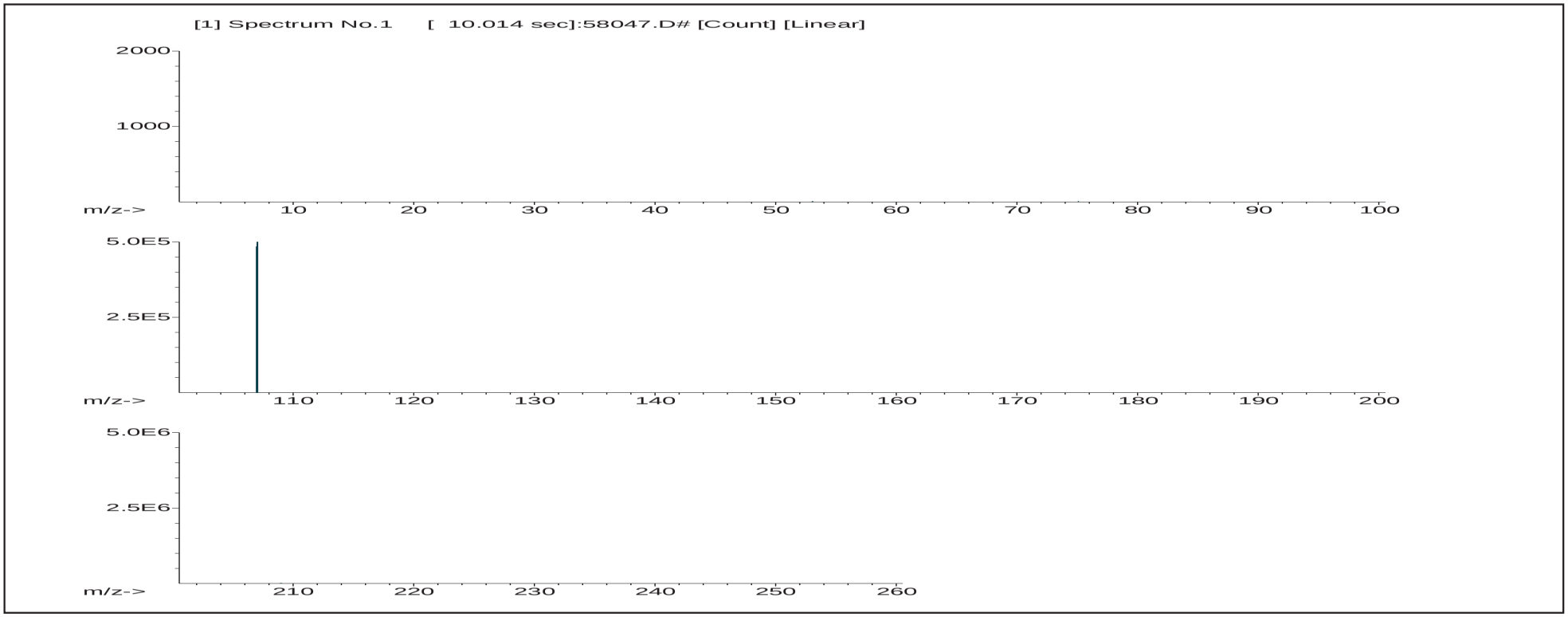
Giovanni Esposito

Formulated By:	Giovanni Esposito	072921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072921

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



955

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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956

CERTIFIED WEIGHT REPORT:

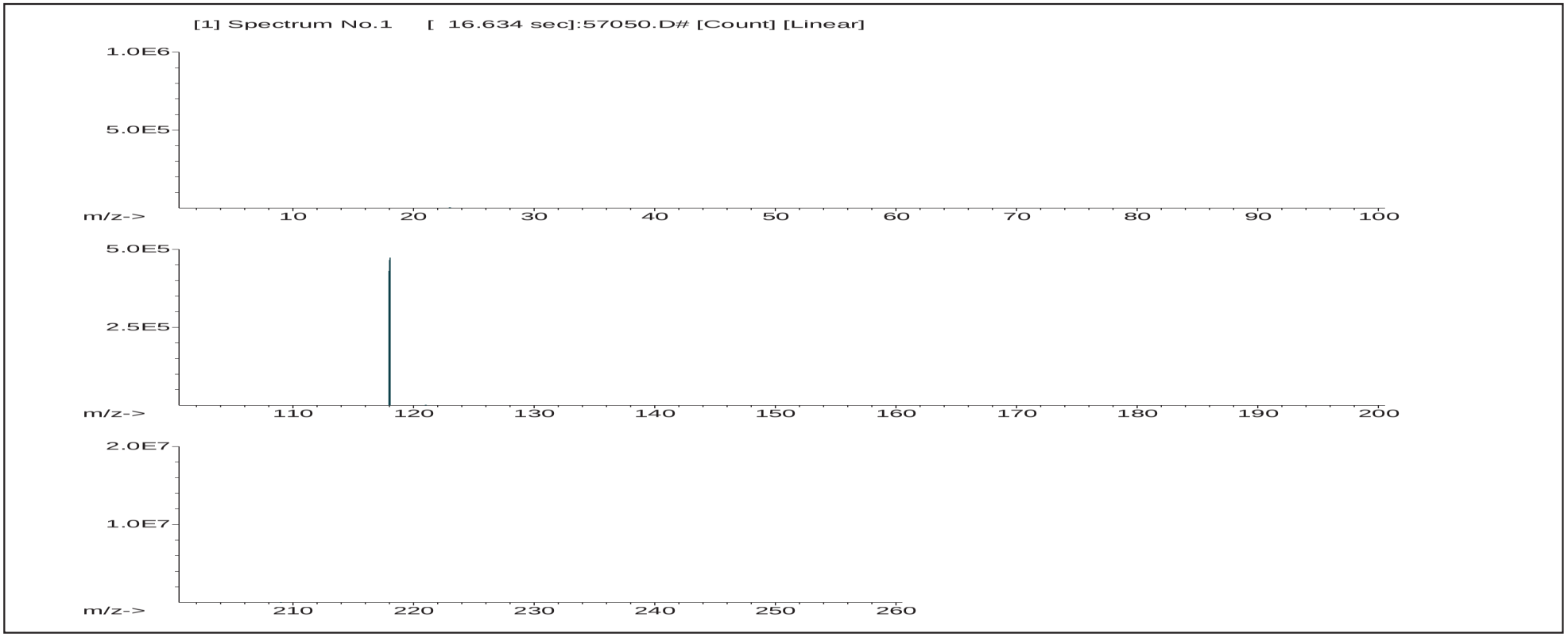
Part Number: **57050**
Lot Number: **021121**
Description: **Tin (Sn)**

Expiration Date: 021124
Recommended Storage: Ambient (20 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 23060 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 1999.78 0.265 Flask Uncertainty

Lot #	**Solvent:**	
19410105	Nitric Acid	
240241	Hydrochloric acid	
2.0%	40.0	Nitric Acid
6.0%	120.0	Hydrochloric acid
	(mL)	

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



957

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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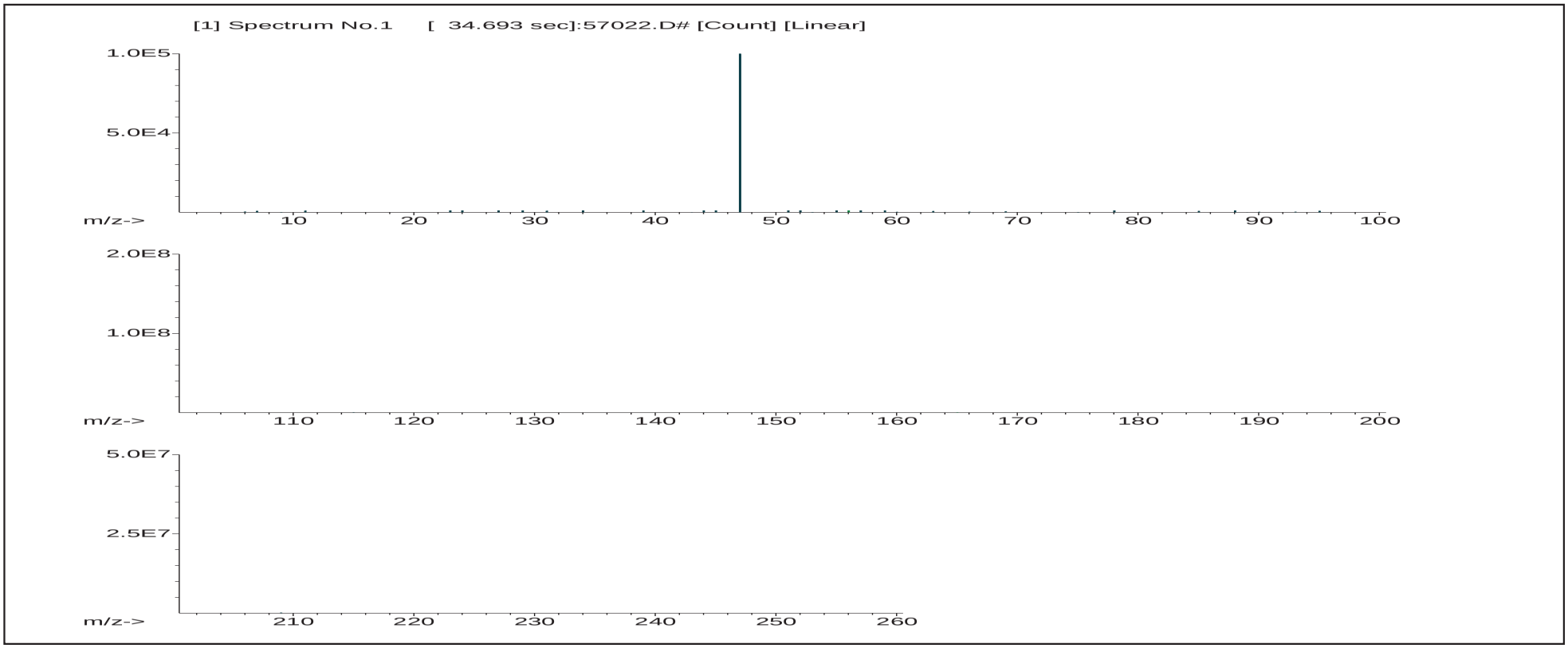
958

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57022**	20370011	Nitric Acid
Lot Number:	**070721**		
Description:	**Titanium (Ti)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	070724		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058 Flask Uncertainty	

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



959

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57081**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Thallium (Tl)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Giovanni Esposito

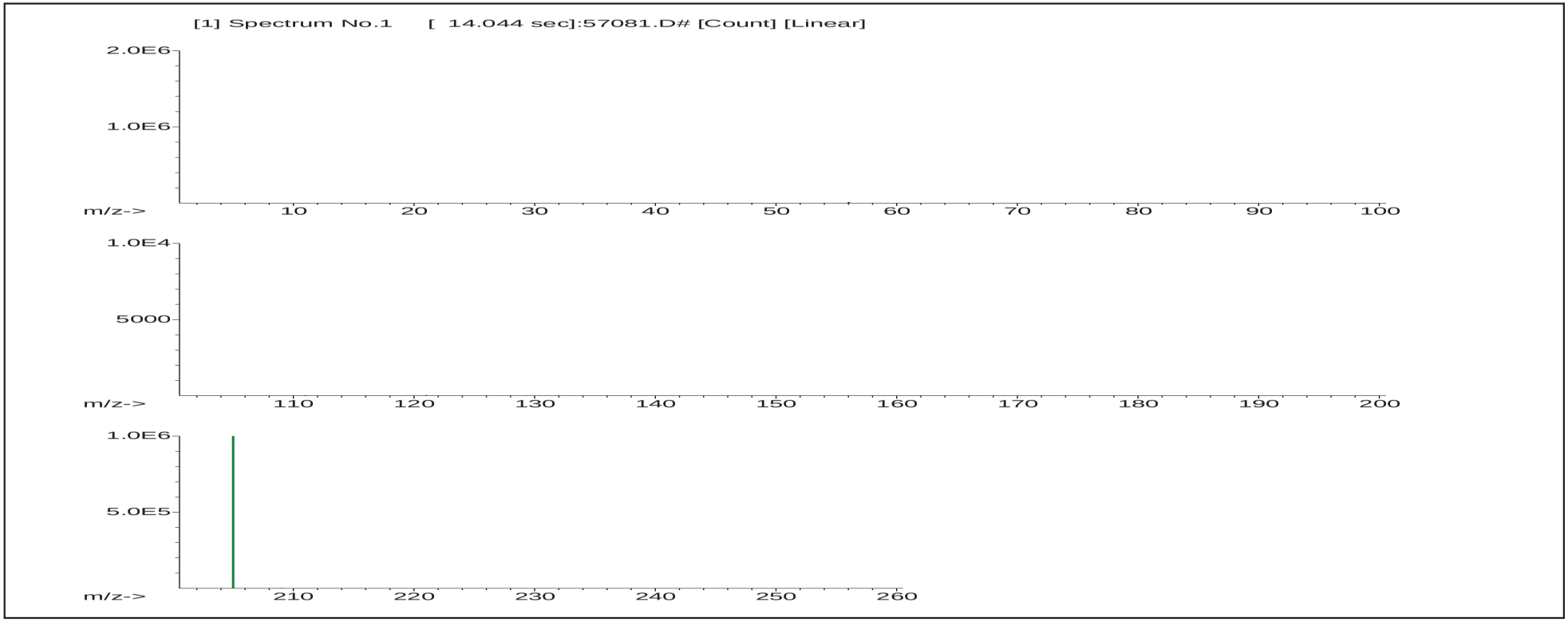
Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

096

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



T96

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58030**	20370011	Nitric Acid
Lot Number:	**031921**		
Description:	**Zinc (Zn)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Giovanni Esposito

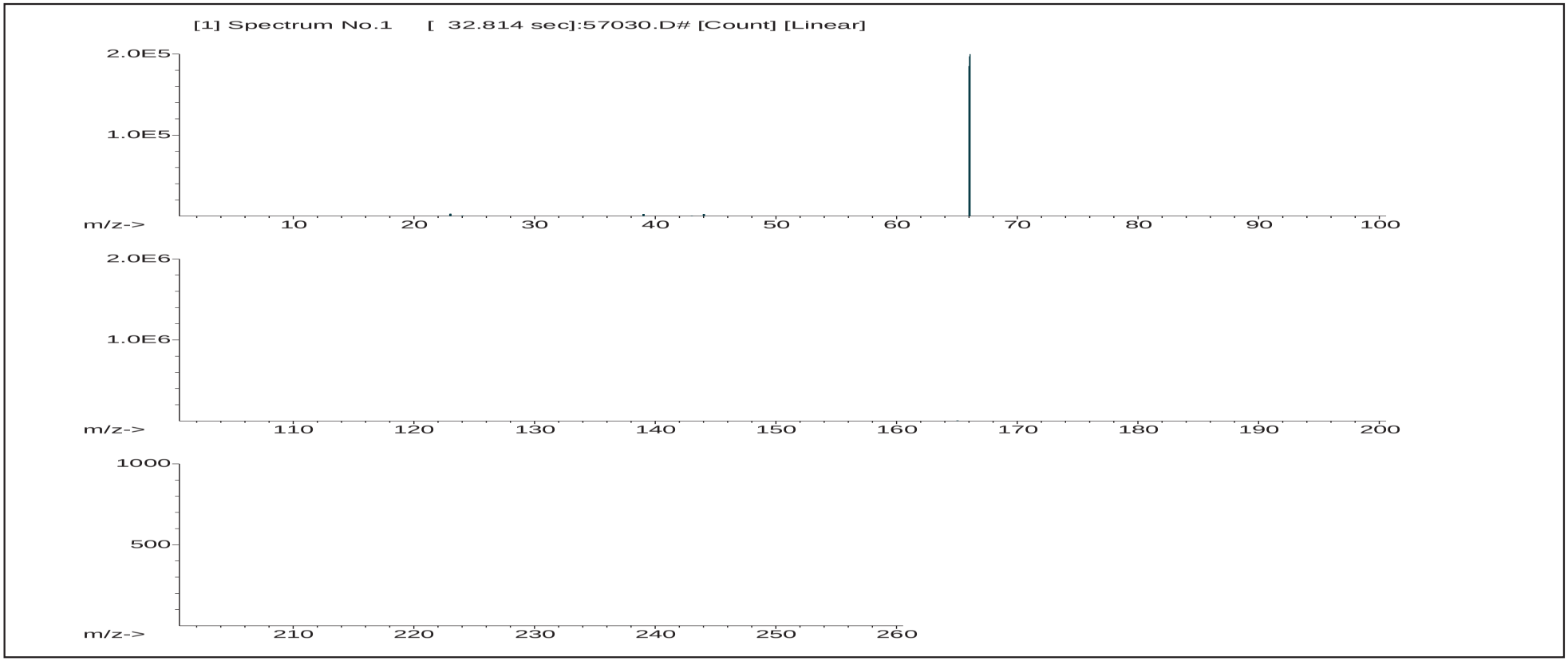
Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

962

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



963

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

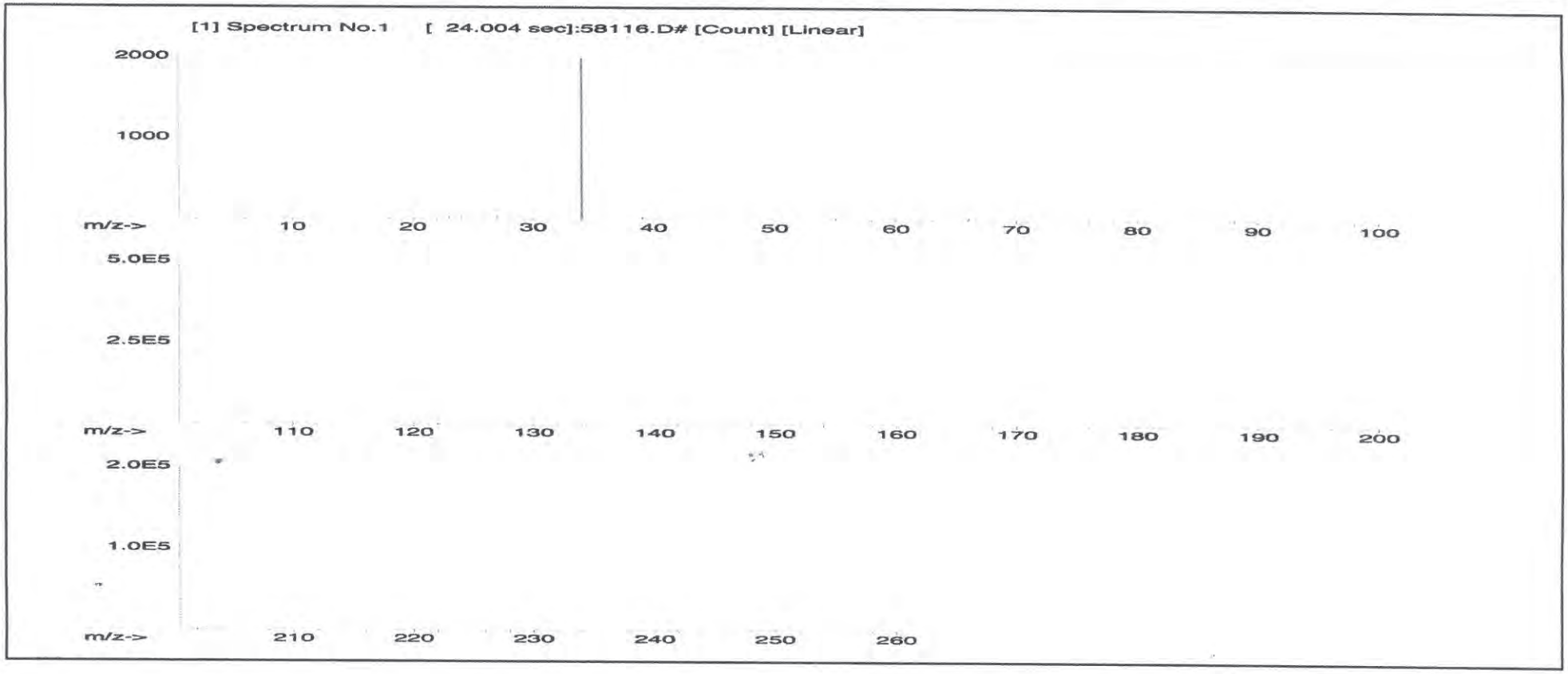
Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Solvent: Lot # 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



964

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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965

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996

CERTIFIED WEIGHT REPORT:

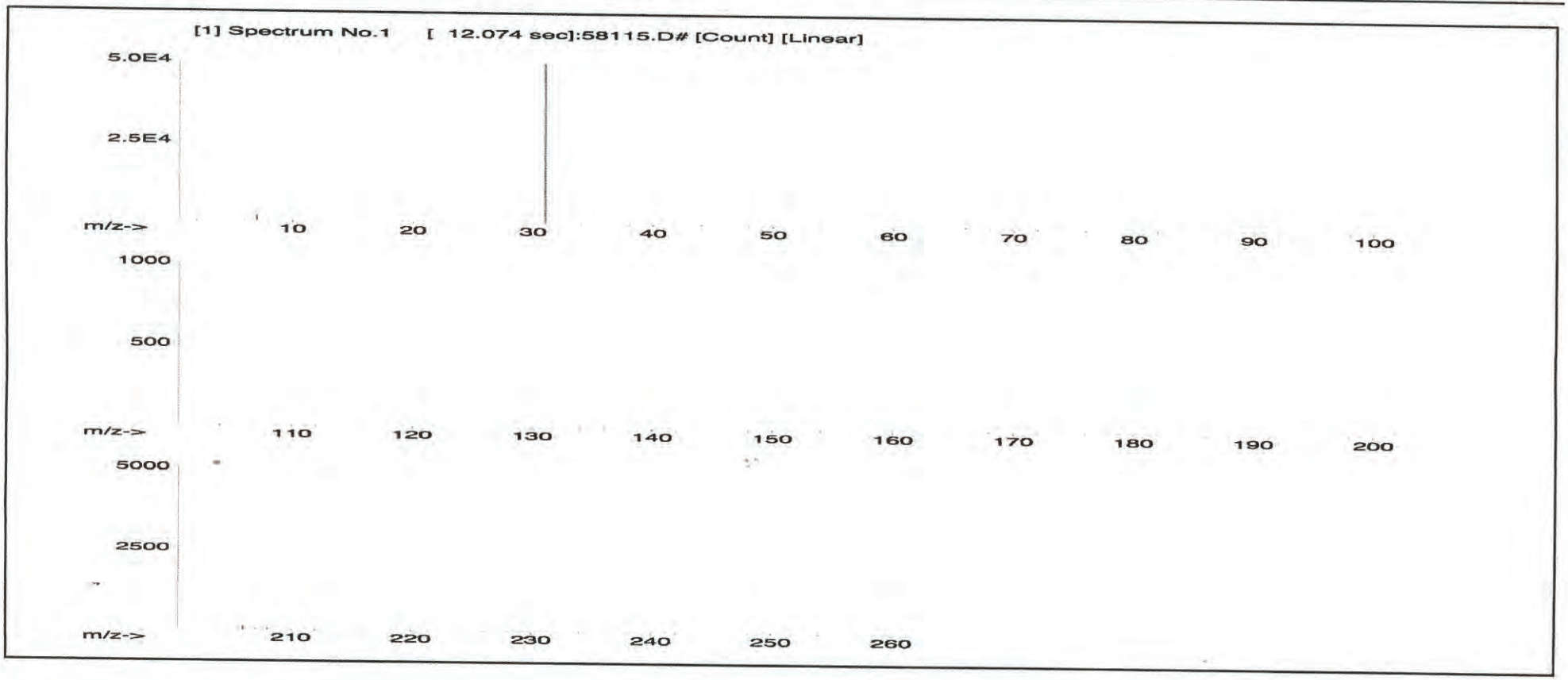
Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



996

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

M5184

		Lot #	Solvent:
Part Number:	**58025**	20510011	Nitric Acid
Lot Number:	**060122**		
Description:	**Manganese (Mn)**		

2.0%	60.0 (mL)	Nitric Acid	

Expiration Date:	060125
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	**1000**
NIST Test Number:	6UTB

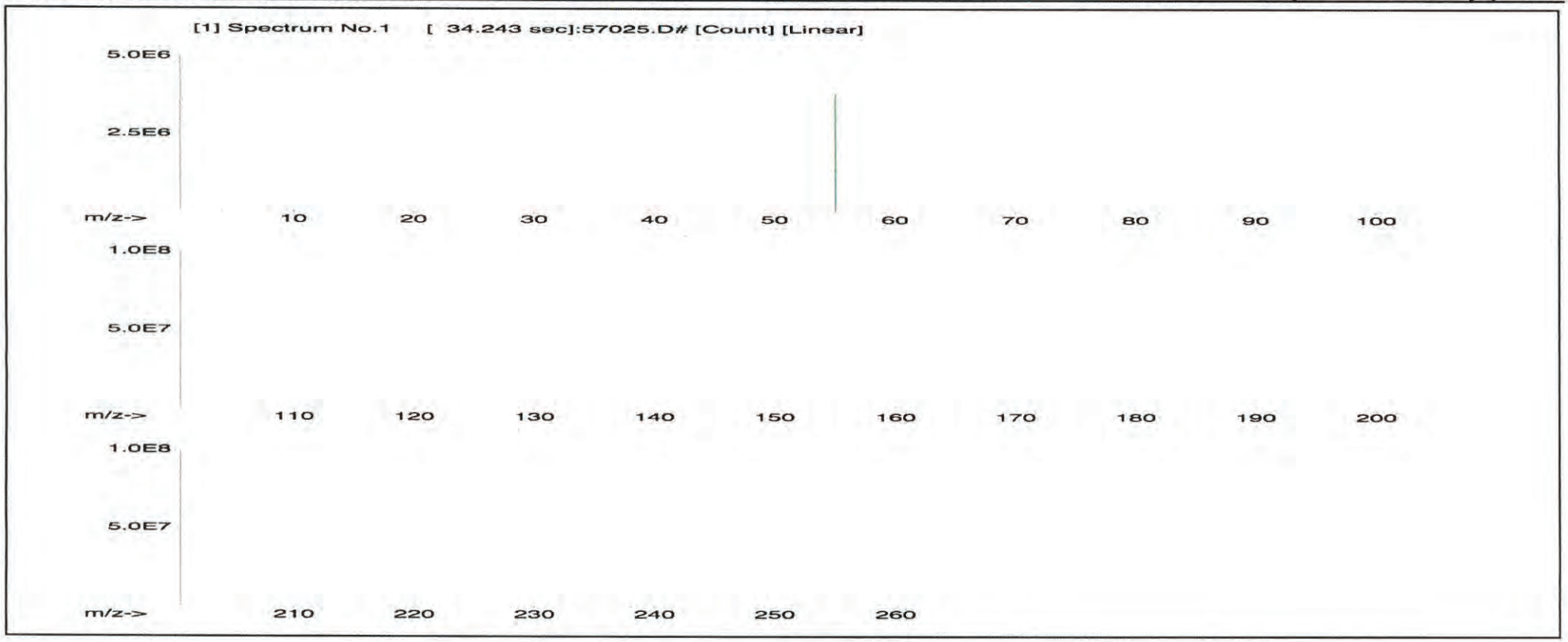
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

996

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5192 R: 06/17/22

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CERTIFIED WEIGHT REPORT:

Part Number: **57042**
Lot Number: **051722**
Description: **Molybdenum (Mo)**

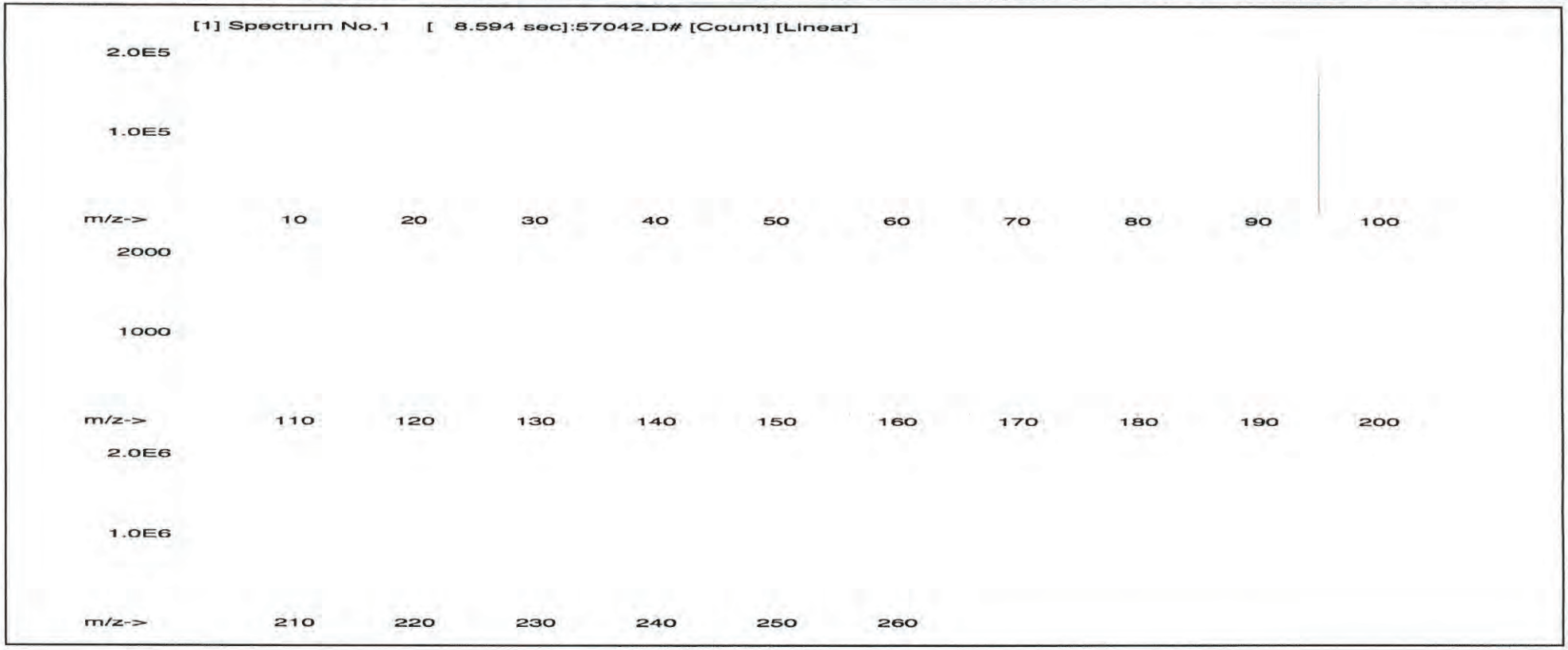
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

970

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



T76

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5193
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CERTIFIED WEIGHT REPORT:

Part Number: **58120**
Lot Number: **082021**
Description: **Calcium (Ca)**

Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.4 0.058 Flask Uncertainty

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid

Giovanni Esposito

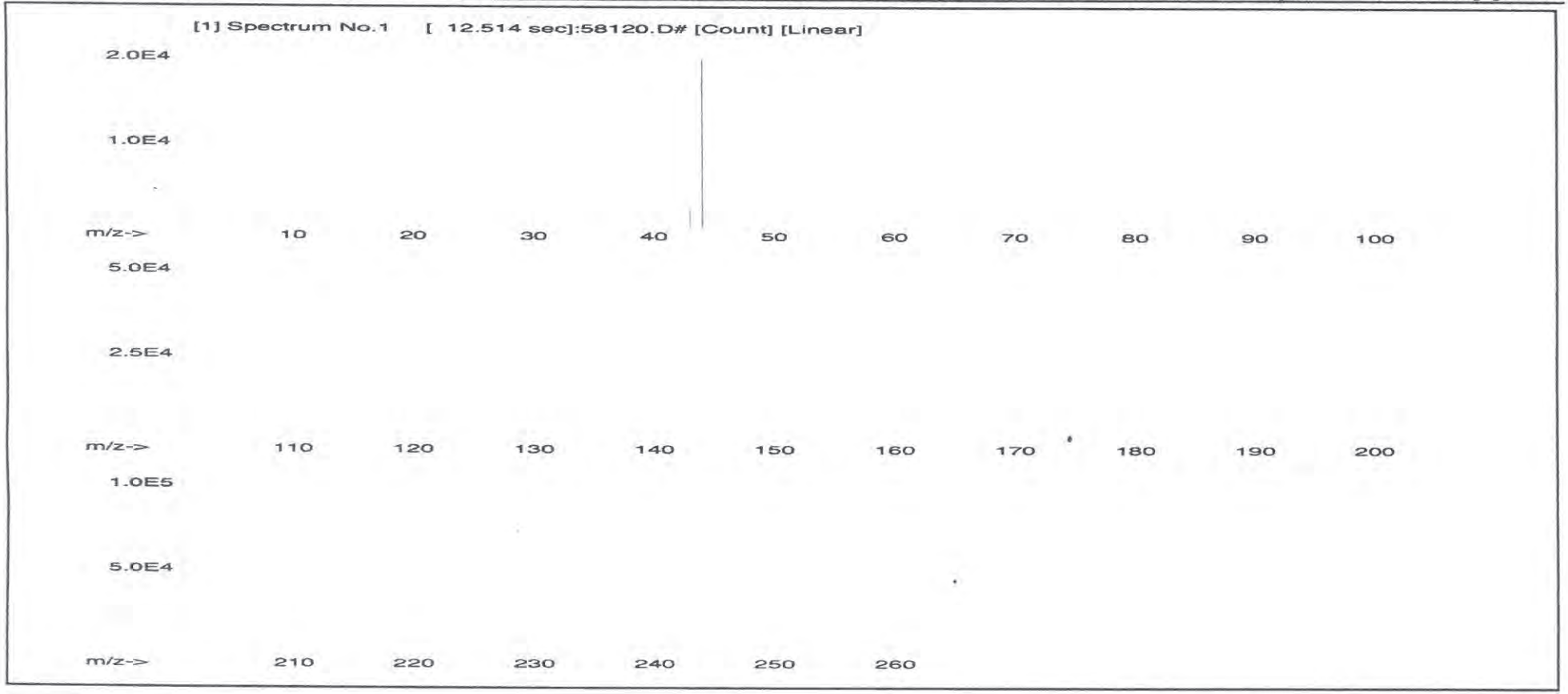
Formulated By:	Giovanni Esposito	082021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	082021

972

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

673

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974

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty
		0.058	Flask Uncertainty

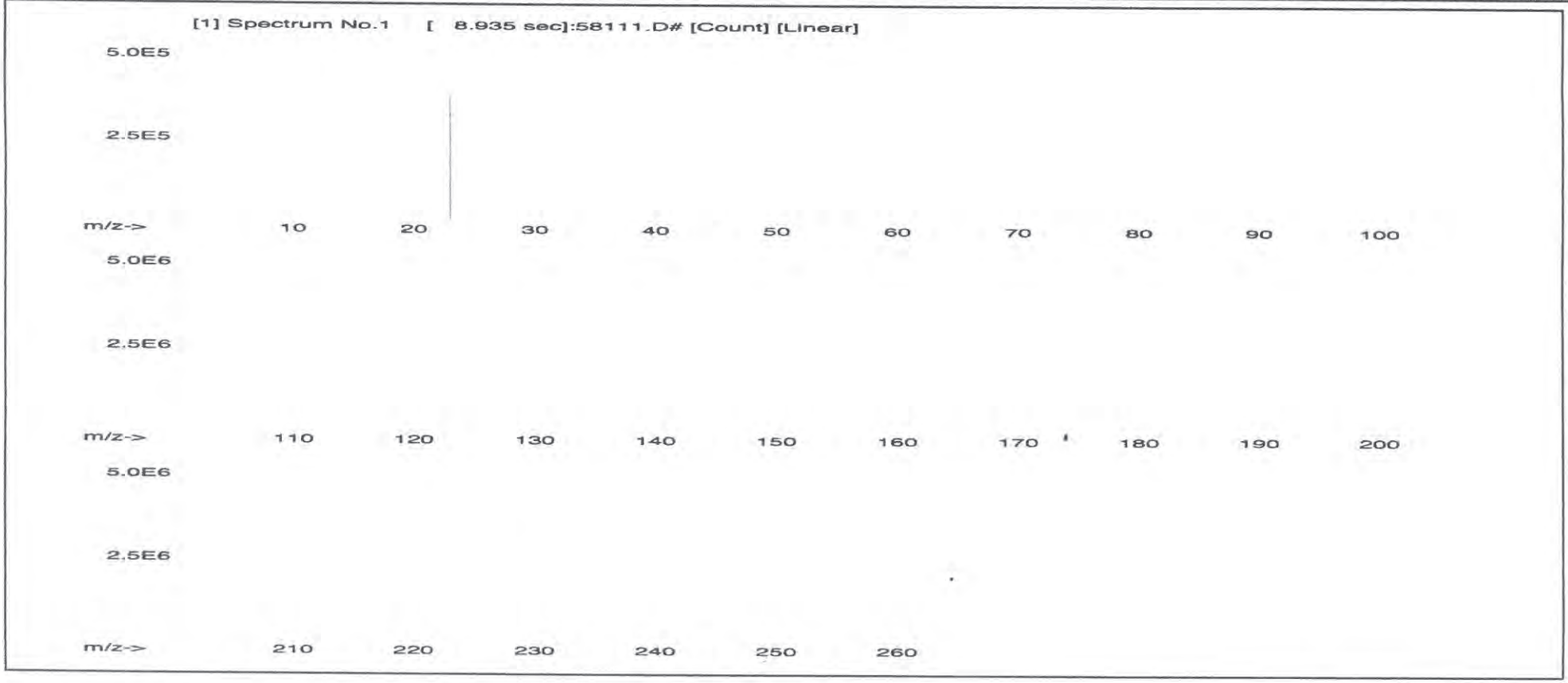
Giovanni Esposito

Formulated By:	Giovanni Esposito	092121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



975

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

Part Number: **57119**
Lot Number: **062321**
Description: **Potassium (K)**
Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

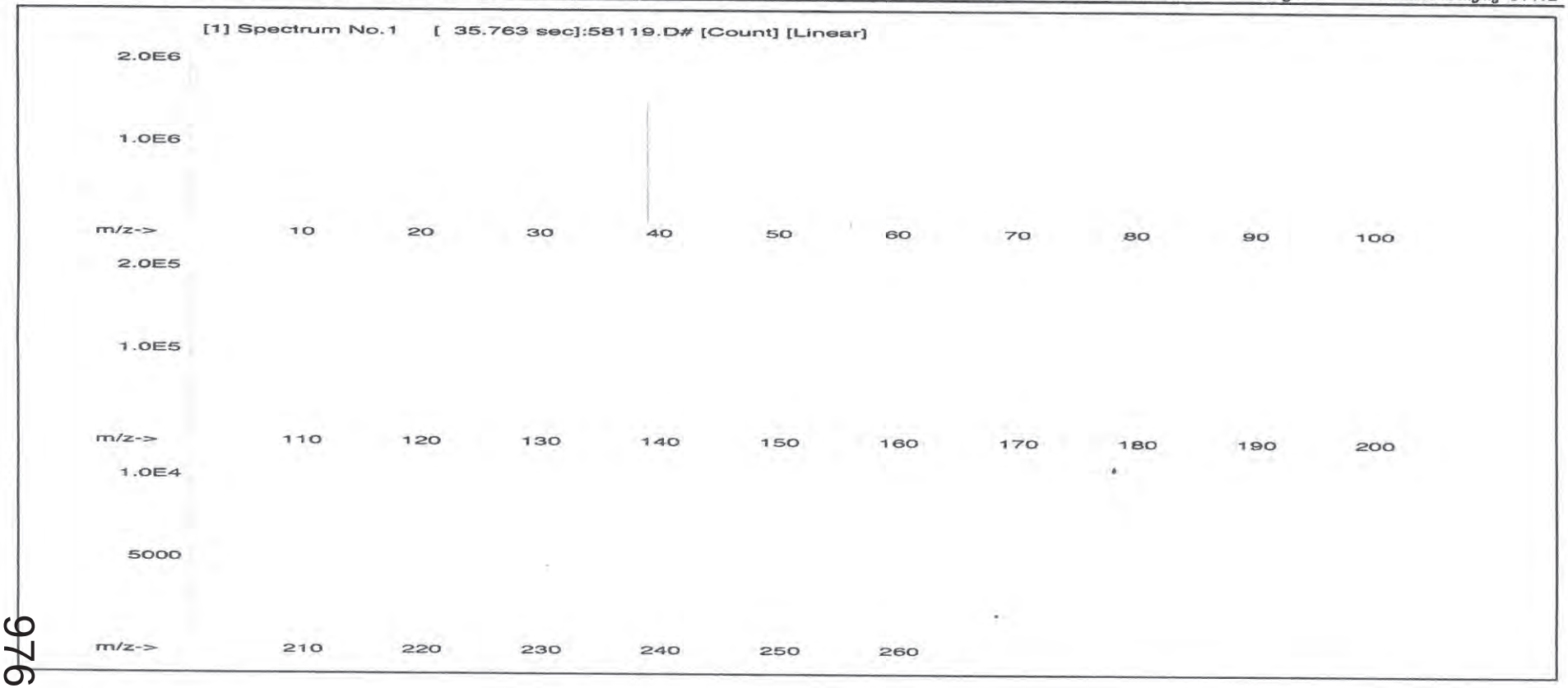
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



976

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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977

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57051**	20370011	Nitric Acid
Lot Number:	**101521**		
Description:	**Antimony (Sb)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	101524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty

Giovanni Esposito

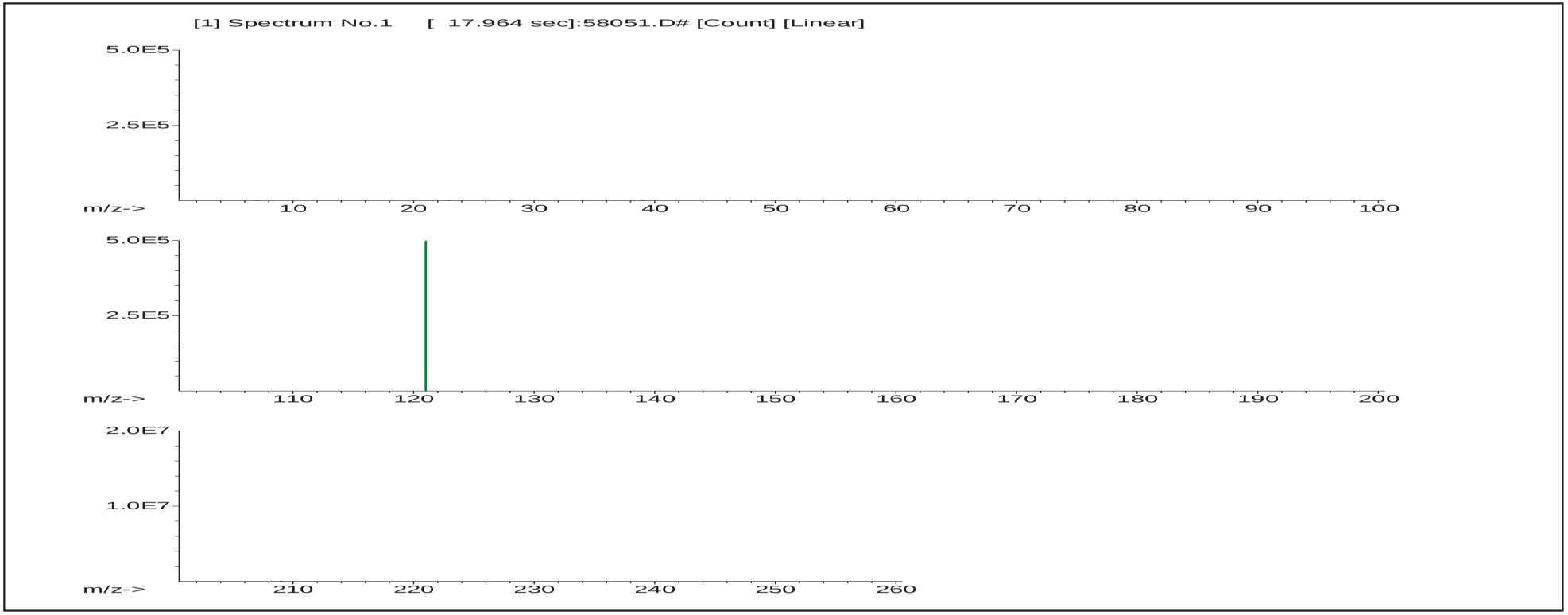
Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

978

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



679

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M5227 R: 10/18/2021

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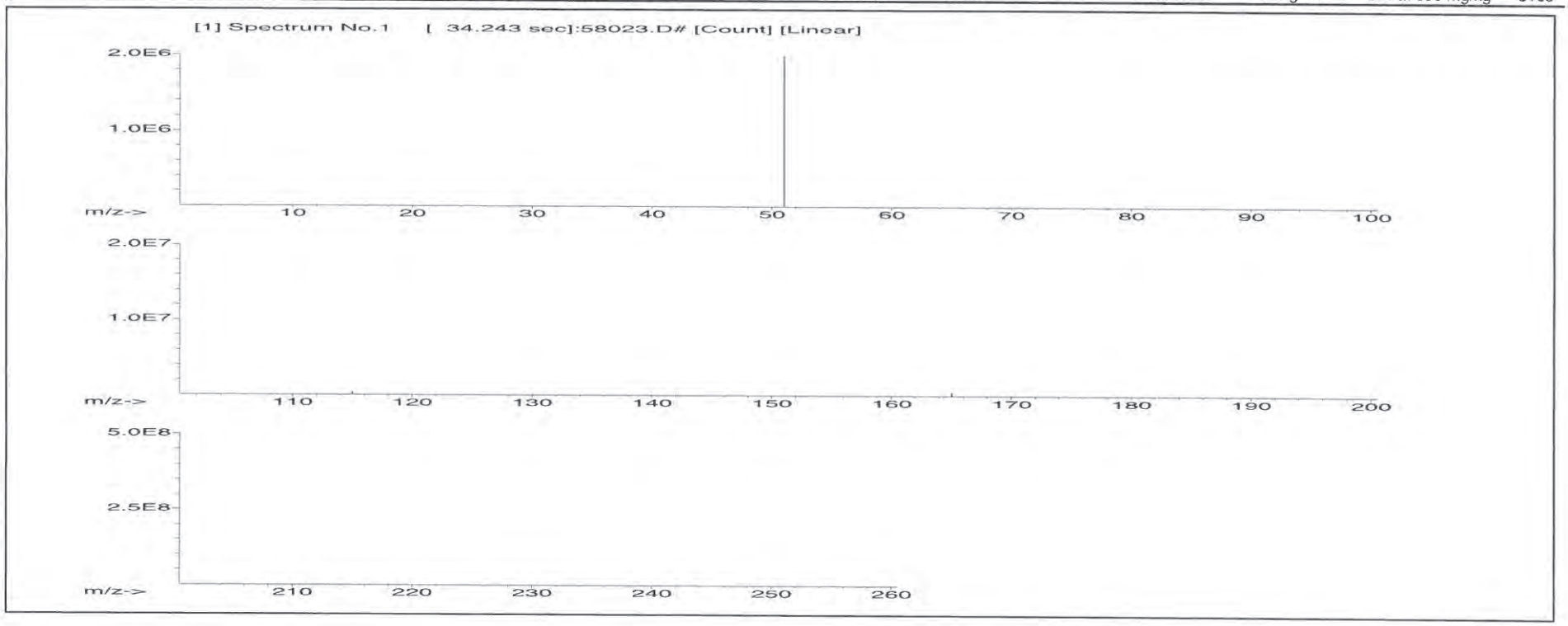
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57023**	20370011	Nitric Acid
Lot Number:	**100121**		
Description:	**Vanadium (V)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	100124		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	100121
Reviewed By:	Pedro L. Rentas	100121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



980

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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M5229 R: 07/05/22 (BH)

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982

CERTIFIED WEIGHT REPORT:

Part Number: 57092
Lot Number: 073021
Description: Uranium (U)

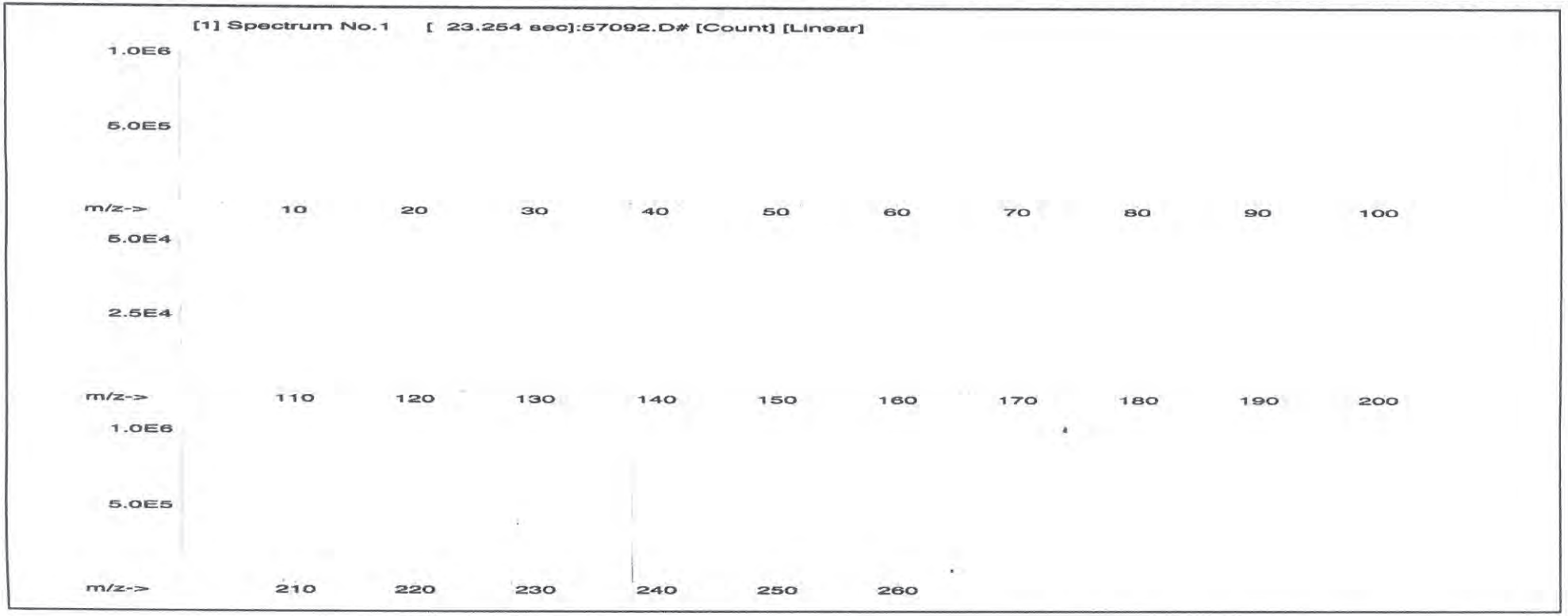
Expiration Date: 073024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Lot #	Solvent:		
20370011	Nitric Acid		
2.0%	60.0 (mL)	Nitric Acid	

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	**2.1**	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



983

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (μg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
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Certified Reference Material CRM

M5230 R 07/05/22 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

984

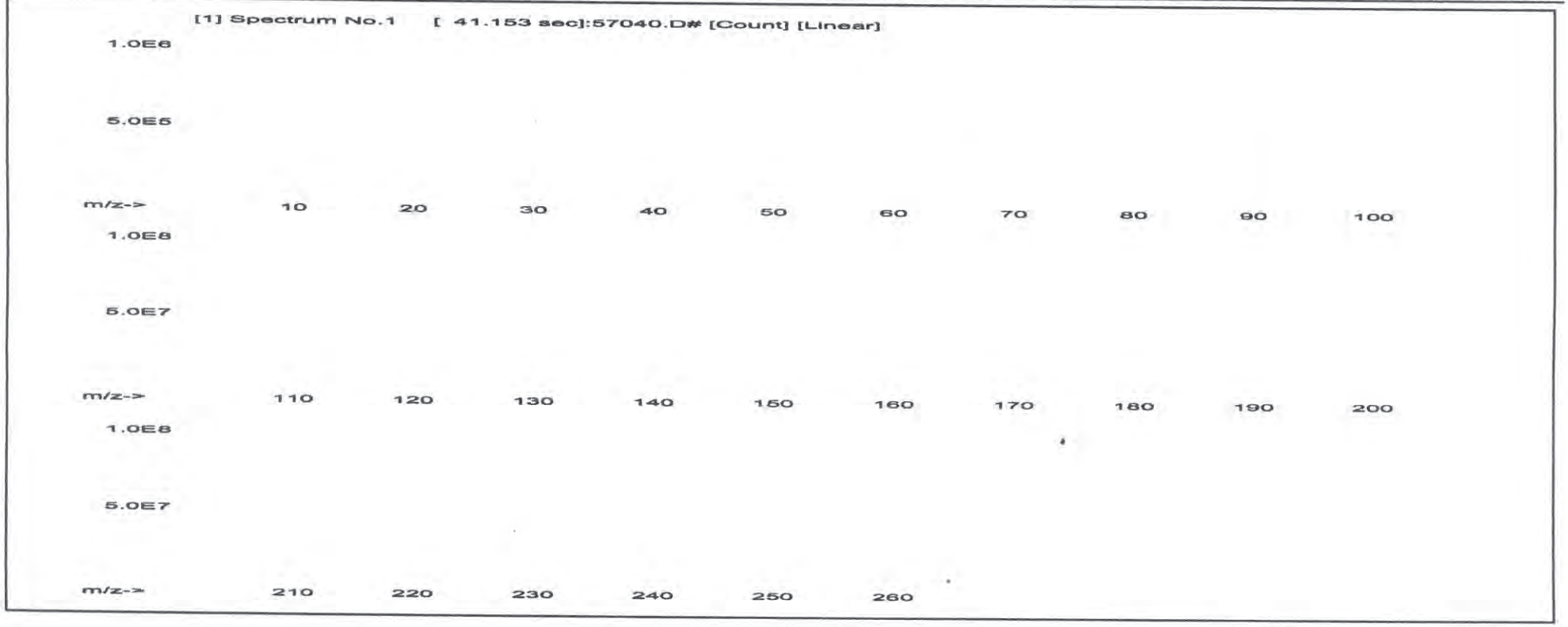
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57040**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Zirconium (Zr)**	2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	300.0	0.084	1000	10000.3	**1000.0**	**2.1**	13520-92-8	NA	NA	NA



985

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
306 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

R: 7/6/22 M5231

tel: 800.669.6799 / 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	R2-MEB695520
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Bismuth, Cobalt, Lithium, Lead, Beryllium, Cerium, Indium, Nickel, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.05 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.04 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.00 ± 0.04 µg/mL
Nickel, Ni	10.00 ± 0.04 µg/mL	Uranium, U	10.00 ± 0.05 µg/mL

Density: 1.023 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	991212
Bi	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 04, 2024

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Wednesday, Oct 14, 2020 by utruong. Revision was made for the following reason: Added missing isotopic abundance for Uranium..

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Absolute Standards, Inc.
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M5289 R: 07/12/22 (B4)

Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

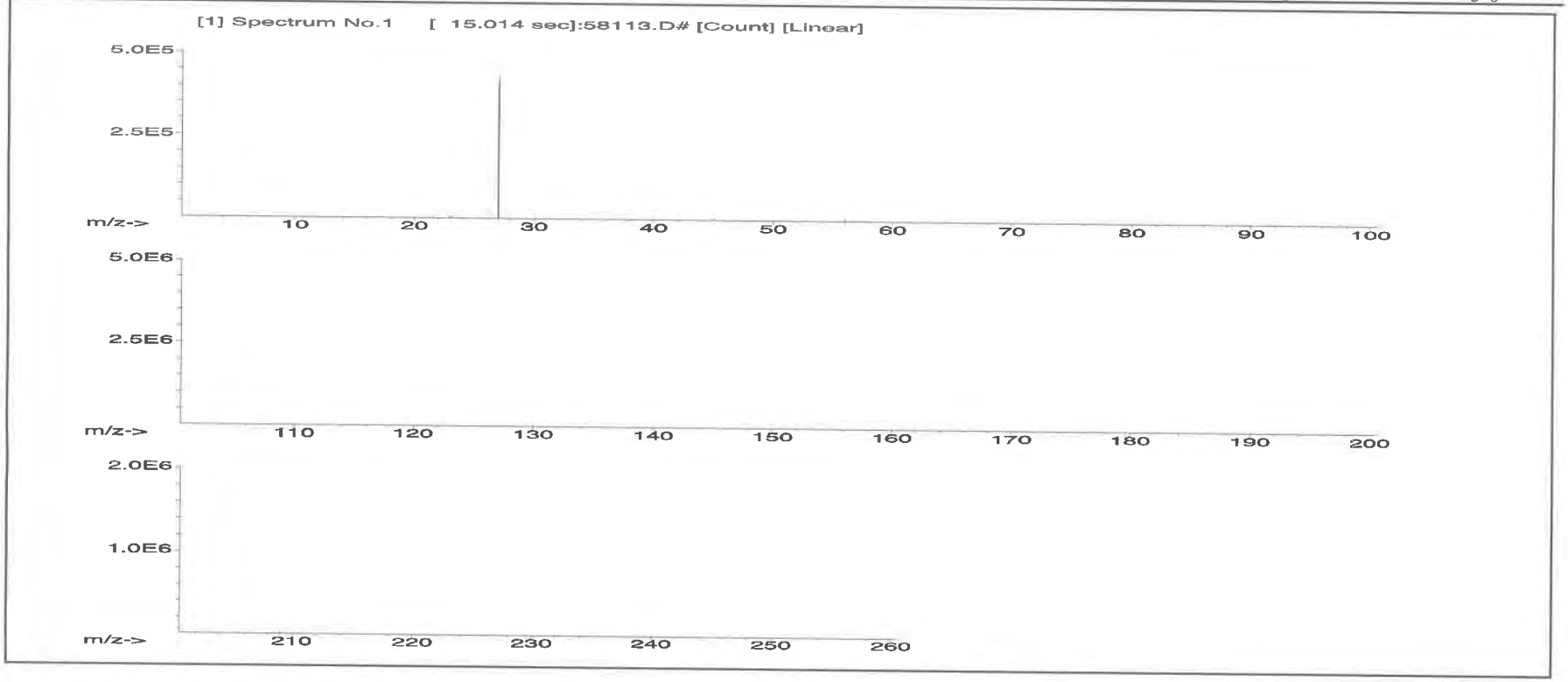
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #	
Solvent:	20370011	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Formulated By: Lawrence Barry 070622

Reviewed By: Pedro L. Rentas 070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58126**
Lot Number: **020422** M5298
Description: **Iron (Fe)**

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

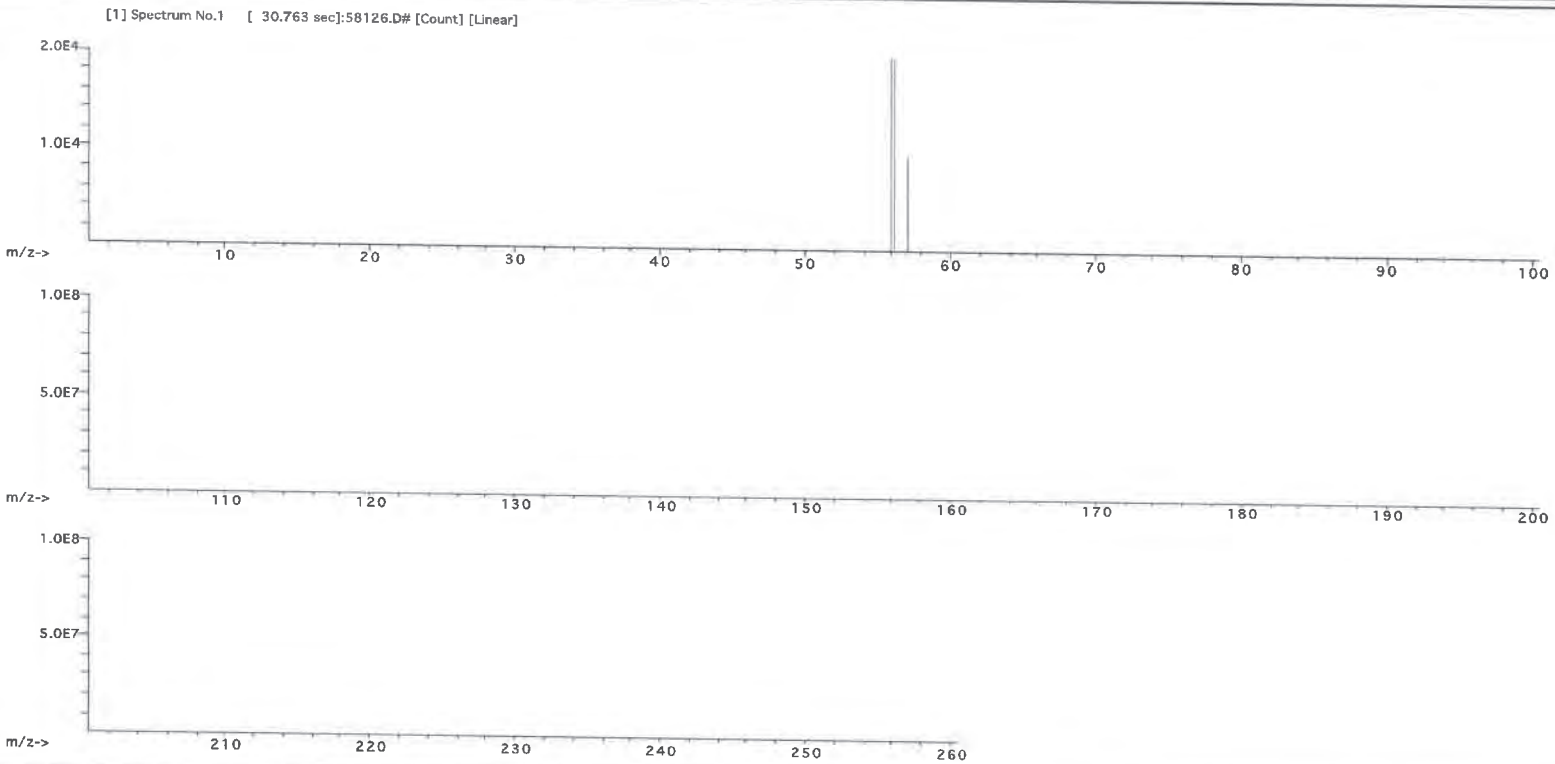
	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



994

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

995

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1000

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

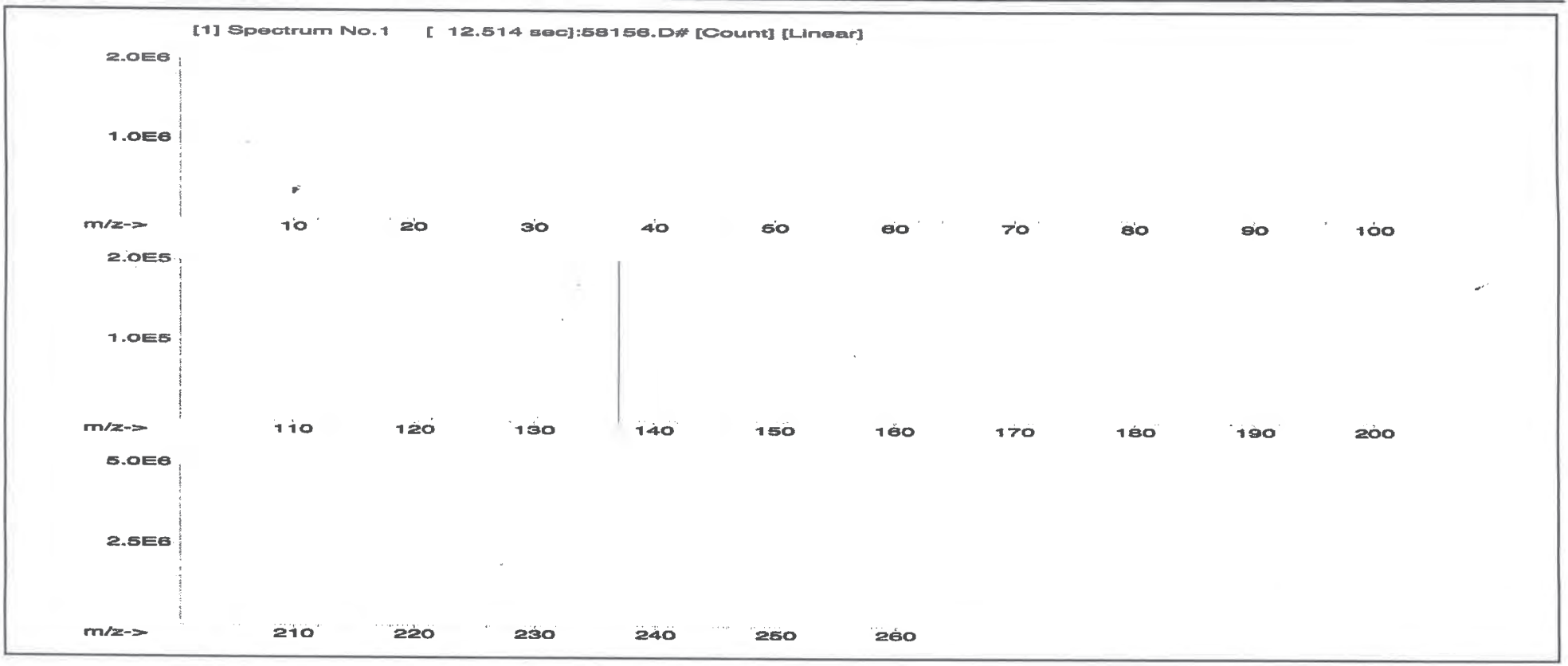
Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

	Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1001

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea: Bismuth, Indium, Rhodium, Terbium, Holmium, 6-Lithium, Scandium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael J. Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

1008

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800-368-1131
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Certified Reference Material CRM

R: 03/14/23 M5468

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AR-1539 Certificate Number
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1009

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 120922
Description: Magnesium (Mg)

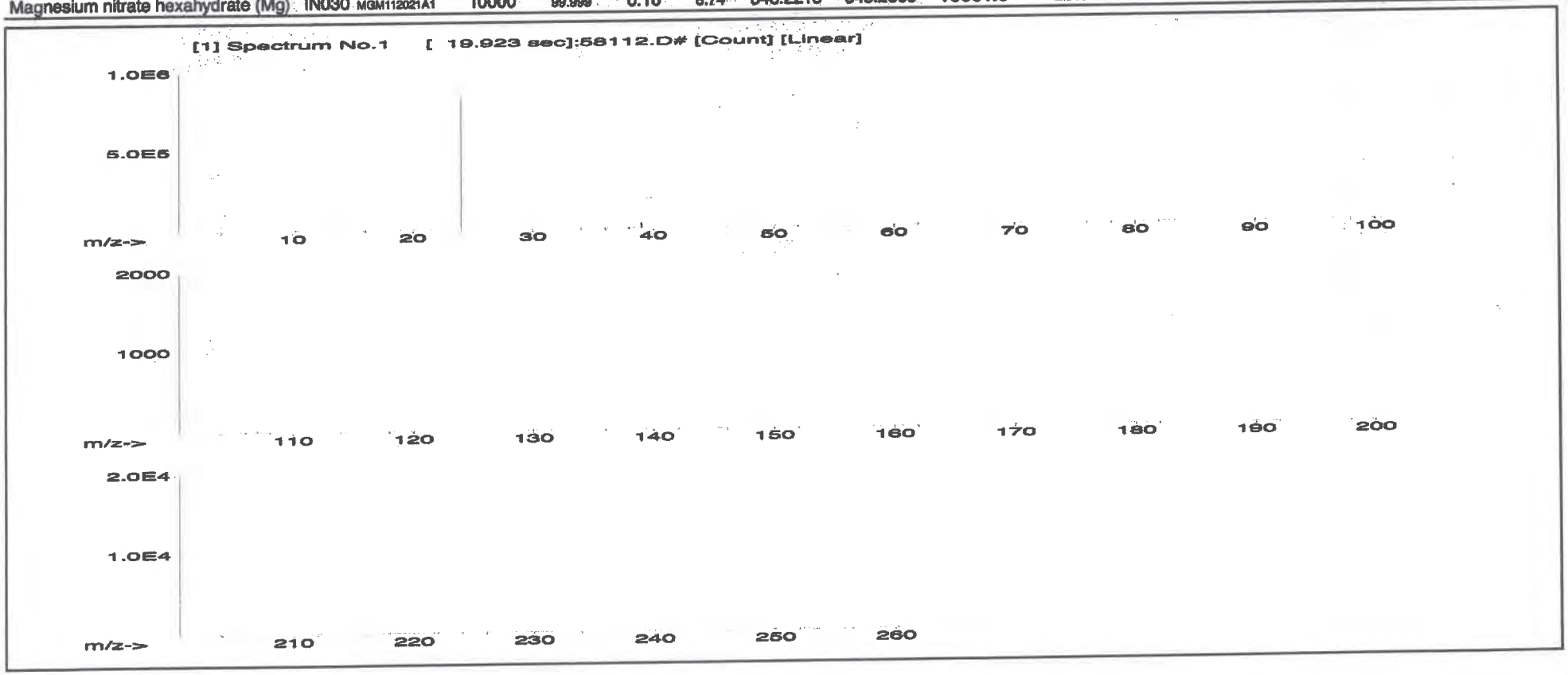
Expiration Date: 120925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid

Giovanni Esposito
Formulated By: Giovanni Esposito 120922

Pedro Rentas
Reviewed By: Pedro L. Rentas 120922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

1010

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

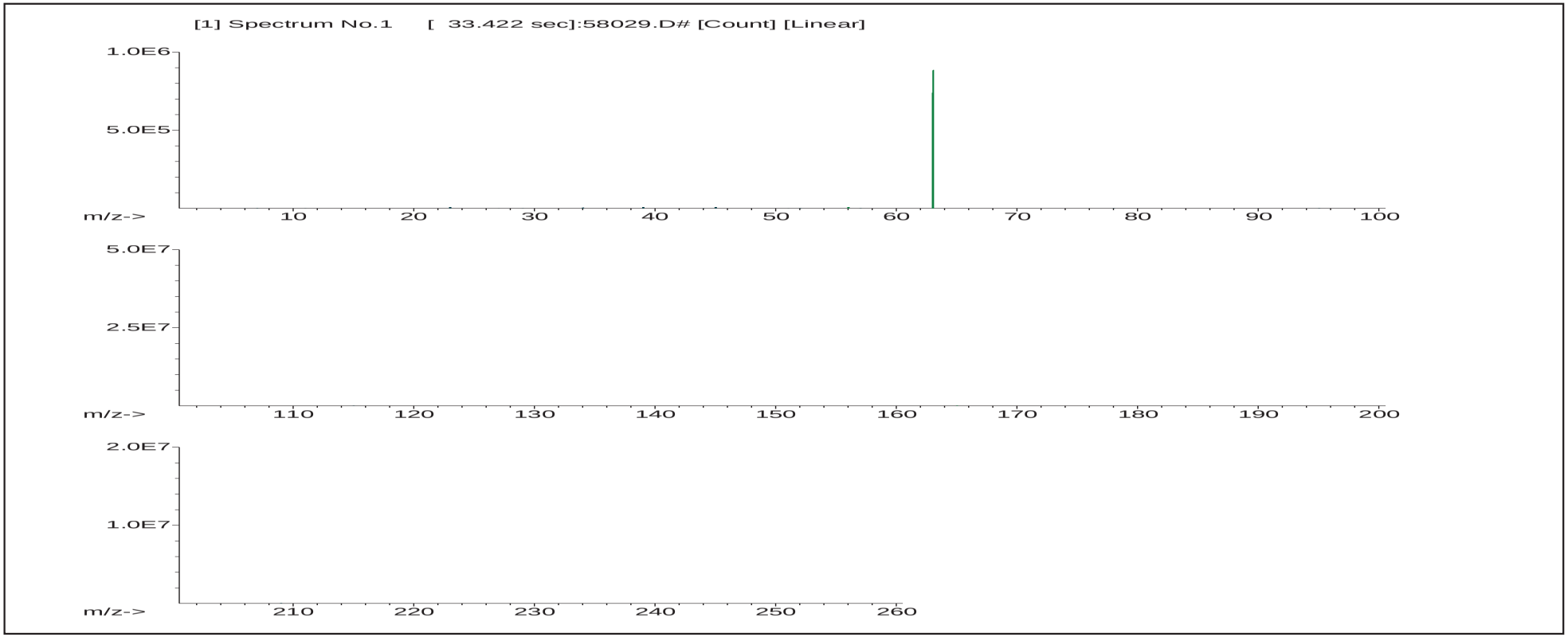
1011

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58029**	20510011	Nitric Acid
Lot Number:	**102622**		
Description:	**Copper (Cu)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	102625		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Eli Aliaga	102622
Reviewed By:	Pedro L. Rentas	102622

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



1012

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium,
	1 000 µg/mL ea: Iron,
	500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,
	250 µg/mL ea: Copper,
	200 µg/mL ea: Chromium,
	50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method I with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) $= U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) $= U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

RE 03/16/23, M5469, M5470, M5471, M5472

1032

CERTIFIED WEIGHT REPORT:

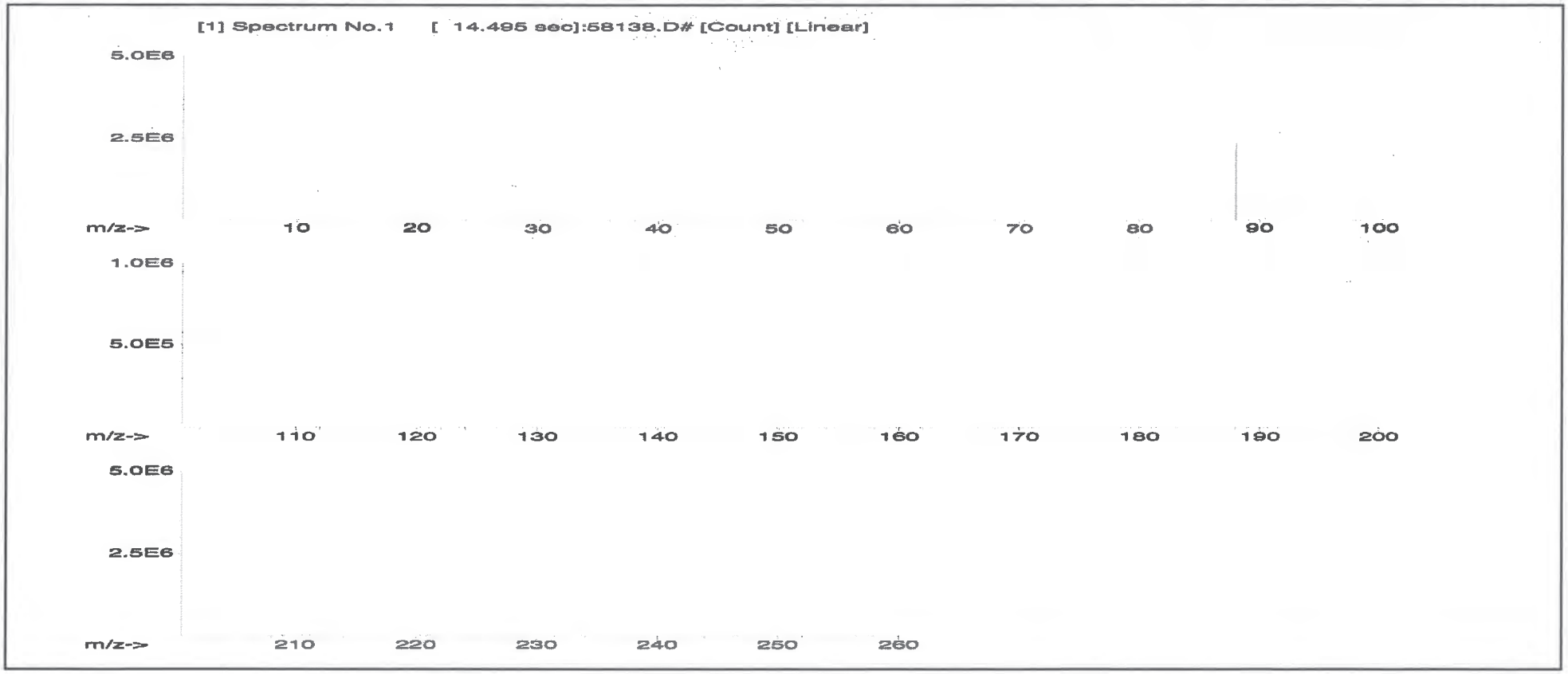
Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



1033

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

1034

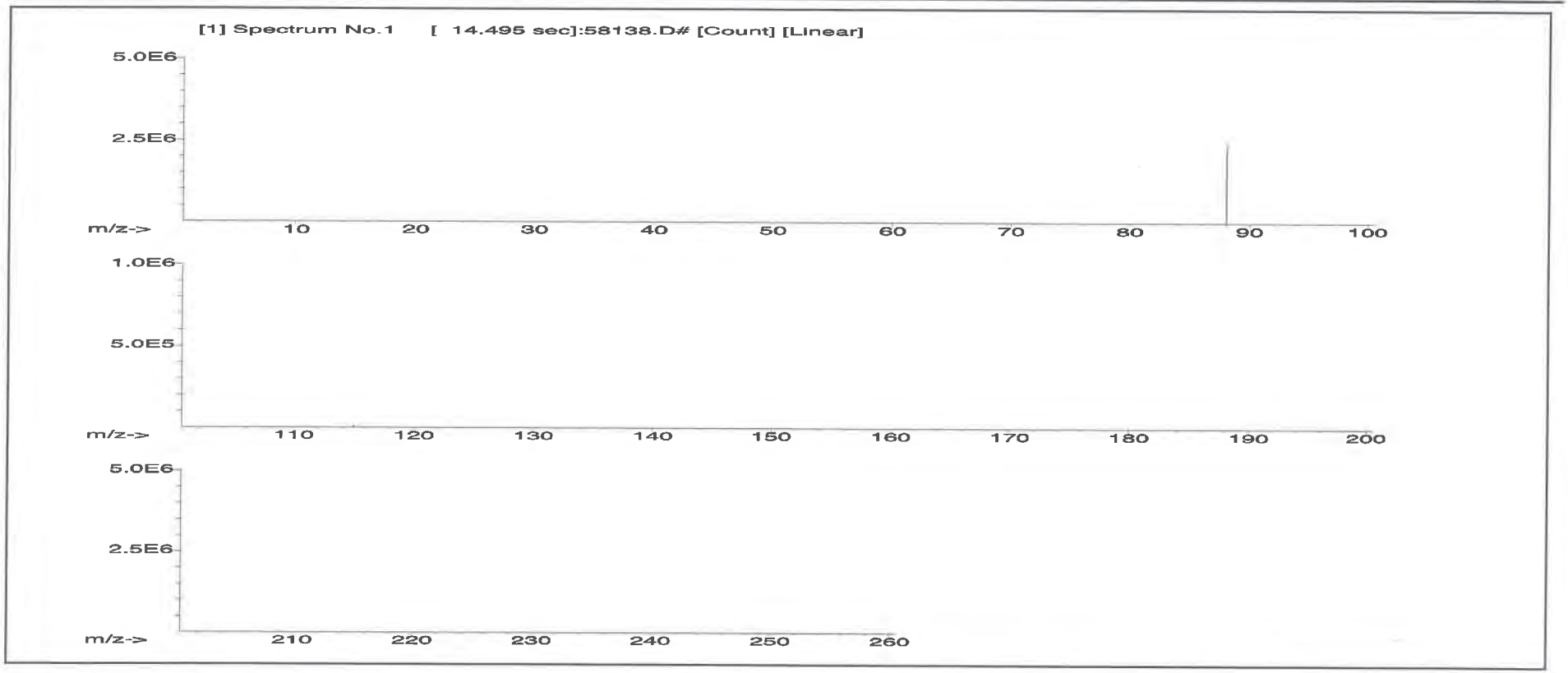
R: 03/16/23 M5473 M5474, M5475, M5476

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**56138**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**082922**			
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid
Expiration Date:	082925			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



1035

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153966

SOP ID : M200.8-Trace Elements-21, MSFAM01.1-Metals ICPMS-2

SDG No : MJVA80,MH0F81,MH0F01

Start Digest Date: 07/07/2023 **Time :** 09:30 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 07/07/2023 **Time :** 10:00 **Temp :** 95 °C

Pippete ID: ICP A

Digestion tube ID: M5593

Balance ID : M SC-2

Block thermometer ID: MET-DIG. #3

Filter paper ID : N/A

Dig Technician Signature: [illegible]

pH Strip ID : N/A

Supervisor Signature: [illegible]

Hood ID : #3

Block ID: **1.** HOT BLOCK#3 **2.** N/A

Temp : **1.** 95°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP76247
Spike Sol. B	1.00	MP76131
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP75962
1:4 HCl Solution	10.00	MP74931
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/7/23 16:10	[illegible]	[illegible]
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Metals Preparation Sheet

PB153966

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
O3433-01	MJVA80	N/A	1.39	500	Brown	Brown	Medium	N/A	N/A	3-1
O3433-02	MJVA90	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	2
O3433-03	MJVA91	N/A	1.08	500	Brown	Brown	Medium	N/A	N/A	3
O3433-04	MJVA92	N/A	1.27	500	Brown	Brown	Medium	N/A	N/A	4
O3433-05	MJVA92D	N/A	1.22	500	Brown	Brown	Medium	N/A	N/A	5
O3433-06	MJVA92S	N/A	1.17	500	Brown	Brown	Medium	N/A	MP76131	6
O3449-01	MH0F81	N/A	1.13	500	Brown	Brown	Medium	N/A	N/A	7
O3449-02	MH0F81D	N/A	1.22	500	Brown	Brown	Medium	N/A	N/A	8
O3449-03	MH0F81S	N/A	1.13	500	Brown	Brown	Medium	N/A	MP76131	9
O3449-04	MH0F82	N/A	1.14	500	Brown	Brown	Medium	N/A	N/A	10
O3449-05	MH0F83	N/A	1.20	500	Brown	Brown	Medium	N/A	N/A	11
O3449-06	MH0F84	N/A	1.10	500	Brown	Brown	Medium	N/A	N/A	12
O3449-07	MH0F85	N/A	1.12	500	Brown	Brown	Medium	N/A	N/A	13
O3449-08	MH0F86	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	14
O3449-09	MH0F87	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	15
O3449-10	MH0F88	N/A	1.21	500	Brown	Brown	Medium	N/A	N/A	16
O3450-01	MH0F01	N/A	1.29	500	Brown	Brown	Medium	N/A	N/A	17
O3450-02	MH0F05	N/A	1.39	500	Brown	Brown	Medium	N/A	N/A	18
O3450-03	MH0F06	N/A	1.20	500	Brown	Brown	Medium	N/A	N/A	19
O3450-04	MH0F80	N/A	1.49	500	Brown	Brown	Medium	N/A	N/A	20
O3450-05	MH0F80D	N/A	1.48	500	Brown	Brown	Medium	N/A	N/A	21
O3450-06	MH0F80S	N/A	1.49	500	Brown	Brown	Medium	N/A	MP76131	22
PB153966BL	PBS966	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	23
PB153966BS	LCS966	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP76247	24

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

Review By	Sarabjit Jaswal	Review On	7/14/2023 8:45:48 AM
Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE075	TUNE	07/12/23 09:39		Jaswal	OK
2	S00	S0	CAL1	07/12/23 12:09		Jaswal	OK
3	S02	S02	CAL3	07/12/23 12:12		Jaswal	OK
4	S03	S03	CAL4	07/12/23 12:15		Jaswal	OK
5	S04	S04	CAL5	07/12/23 12:18		Jaswal	OK
6	S05	S05	CAL6	07/12/23 12:21		Jaswal	OK
7	S06	S06	CAL7	07/12/23 12:24		Jaswal	OK
8	S07	S07	CAL8	07/12/23 12:27		Jaswal	OK
9	S08	S08	CAL9	07/12/23 12:30		Jaswal	OK
10	ICV075	ICV075	ICV	07/12/23 13:14		Jaswal	OK
11	ICB075	ICB075	ICB	07/12/23 13:17		Jaswal	OK
12	ICSA075	ICSA075	ICSA	07/12/23 13:20		Jaswal	OK
13	ICSAB075	ICSAB075	ICSAB	07/12/23 13:23		Jaswal	OK
14	CCV023	CCV023	CCV	07/12/23 13:26	%RSD Fail For Ca	Jaswal	OK
15	CCB023	CCB023	CCB	07/12/23 13:29		Jaswal	OK
16	PB154039BL	PBW039	MB	07/12/23 13:32	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
17	PB154039BS	LCS039	LCS	07/12/23 13:35	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
18	O3524-01	MH0F96	SAM	07/12/23 13:38	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
19	O3524-02	MH0F97	SAM	07/12/23 13:41	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
20	O3524-03	MH0F97D	DUP	07/12/23 13:44	CCV023 %RSD Fail For Ca	Jaswal	Not Ok

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

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STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

21	O3524-02L	MH0F97L	SD	07/12/23 13:47	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
22	O3524-04	MH0F97S	MS	07/12/23 13:50	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
23	O3524-05	MH0F98	SAM	07/12/23 13:53	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
24	O3524-06	MH0F99	SAM	07/12/23 13:56	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
25	O3524-07	MH0FA0	SAM	07/12/23 13:59	CCV023 %RSD Fail For Ca	Jaswal	Not Ok
26	PB153920BL	PBS920	MB	07/12/23 14:05		Jaswal	OK
27	PB153920BS	LCS920	LCS	07/12/23 14:09		Jaswal	OK
28	O3446-01	MH0F02	SAM	07/12/23 14:12	0.055ml	Jaswal	OK
29	O3446-02	MH0F02D	DUP	07/12/23 14:15		Jaswal	OK
30	O3446-01L	MH0F02L	SD	07/12/23 14:18		Jaswal	OK
31	O3446-03	MH0F02S	MS	07/12/23 14:21	MS Fail For AS	Jaswal	OK
32	O3446-04	MH0F03	SAM	07/12/23 14:24		Jaswal	OK
33	O3446-05	MH0F07	SAM	07/12/23 14:27		Jaswal	OK
34	O3446-06	MH0F08	SAM	07/12/23 14:30		Jaswal	OK
35	O3446-07	MH0F09	SAM	07/12/23 14:33		Jaswal	OK
36	O3446-08	MH0F10	SAM	07/12/23 14:35		Jaswal	OK
37	O3446-09	MH0F11	SAM	07/12/23 14:38		Jaswal	OK
38	O3446-10	MH0F12	SAM	07/12/23 14:41		Jaswal	OK
39	O3446-11	MH0F13	SAM	07/12/23 14:44		Jaswal	OK
40	O3446-12	MH0F14	SAM	07/12/23 14:47		Jaswal	OK
41	O3446-13	MH0F27	SAM	07/12/23 14:50		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

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Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

42	O3446-14	MH0F28	SAM	07/12/23 14:53		Jaswal	OK
43	O3446-15	MH0F29	SAM	07/12/23 14:56		Jaswal	OK
44	CCV024	CCV024	CCV	07/12/23 15:05		Jaswal	OK
45	CCB024	CCB024	CCB	07/12/23 15:08		Jaswal	OK
46	O3446-16	MH0F30	SAM	07/12/23 15:11		Jaswal	OK
47	O3446-17	MH0F31	SAM	07/12/23 15:14		Jaswal	OK
48	O3446-18	MH0F32	SAM	07/12/23 15:17		Jaswal	OK
49	O3446-19	MH0F33	SAM	07/12/23 15:20		Jaswal	OK
50	O3446-20	MH0F34	SAM	07/12/23 15:23		Jaswal	OK
51	O3446-21	MH0F35	SAM	07/12/23 15:26		Jaswal	OK
52	O3446-22	MH0F36	SAM	07/12/23 15:29		Jaswal	OK
53	O3446-01A	MH0F02A	PS	07/12/23 15:32	PS For As(0.055ml mp76208-10ml sample)	Jaswal	OK
54	PB153921BL	PBS921	MB	07/12/23 15:38		Jaswal	OK
55	PB153921BS	LCS921	LCS	07/12/23 15:41		Jaswal	OK
56	O3447-01	MH0F15	SAM	07/12/23 15:44		Jaswal	OK
57	O3447-02	MH0F16	SAM	07/12/23 15:47		Jaswal	OK
58	O3447-03	MH0F17	SAM	07/12/23 15:50	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
59	O3447-04	MH0F18	SAM	07/12/23 15:53	INT_STD 89Y(1&2) Fail	Jaswal	Dilution
60	O3447-05	MH0F21	SAM	07/12/23 15:56		Jaswal	OK
61	O3447-06	MH0F22	SAM	07/12/23 15:59		Jaswal	OK
62	O3447-07	MH0F23	SAM	07/12/23 16:02		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

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Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

63	O3447-08	MH0F23D	DUP	07/12/23 16:05		Jaswal	OK
64	O3447-07L	MH0F23L	SD	07/12/23 16:08		Jaswal	OK
65	O3447-09	MH0F23S	MS	07/12/23 16:11	MS Fail For Zn	Jaswal	OK
66	O3447-10	MH0F24	SAM	07/12/23 16:14		Jaswal	OK
67	O3447-11	MH0F25	SAM	07/12/23 16:17		Jaswal	OK
68	O3447-12	MH0F26	SAM	07/12/23 16:20		Jaswal	OK
69	O3447-13	MH0F37	SAM	07/12/23 16:23		Jaswal	OK
70	O3447-14	MH0F38	SAM	07/12/23 16:26		Jaswal	OK
71	O3447-15	MH0F39	SAM	07/12/23 16:29		Jaswal	OK
72	O3447-16	MH0F40	SAM	07/12/23 16:32		Jaswal	OK
73	O3447-17	MH0F45	SAM	07/12/23 16:35		Jaswal	OK
74	O3447-18	MH0F46	SAM	07/12/23 16:38		Jaswal	OK
75	CCV025	CCV025	CCV	07/12/23 16:50		Jaswal	OK
76	CCB025	CCB025	CCB	07/12/23 16:54		Jaswal	OK
77	O3447-19	MH0F47	SAM	07/12/23 16:57		Jaswal	OK
78	O3447-20	MH0F48	SAM	07/12/23 17:00		Jaswal	OK
79	O3447-21	MH0F49	SAM	07/12/23 17:03		Jaswal	OK
80	O3447-22	MH0F50	SAM	07/12/23 17:06		Jaswal	OK
81	O3447-03DL	MH0F17	SAM	07/12/23 17:09	2X For INT_STD 89Y(1&2)	Jaswal	Confirms
82	O3447-04DL	MH0F18	SAM	07/12/23 17:12	2X For INT_STD 89Y(1&2)	Jaswal	Confirms
83	O3447-07A	MH0F23A	PS	07/12/23 17:14	PS For Zn(0.0046ml m4891-10ml sample)	Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

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ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

84	PB153993BL	PBS993	MB	07/12/23 17:19		Jaswal	OK
85	PB153993BS	LCS993	LCS	07/12/23 17:22		Jaswal	OK
86	O3448-12	MH0F68	SAM	07/12/23 17:26		Jaswal	OK
87	O3448-13	MH0F68D	DUP	07/12/23 17:28		Jaswal	OK
88	O3448-12L	MH0F68L	SD	07/12/23 17:31		Jaswal	OK
89	O3448-14	MH0F68S	MS	07/12/23 17:34		Jaswal	OK
90	O3448-05	MH0F57	SAM	07/12/23 17:37		Jaswal	OK
91	O3448-06	MH0F58	SAM	07/12/23 17:41		Jaswal	OK
92	O3448-07	MH0F59	SAM	07/12/23 17:44		Jaswal	OK
93	O3448-08	MH0F60	SAM	07/12/23 17:47		Jaswal	OK
94	O3448-09	MH0F61	SAM	07/12/23 17:50		Jaswal	OK
95	O3448-10	MH0F62	SAM	07/12/23 17:52		Jaswal	OK
96	O3448-11	MH0F63	SAM	07/12/23 17:55		Jaswal	OK
97	O3448-01	MH0F51	SAM	07/12/23 17:58		Jaswal	OK
98	O3448-02	MH0F54	SAM	07/12/23 18:01		Jaswal	OK
99	O3448-03	MH0F55	SAM	07/12/23 18:04		Jaswal	OK
100	O3448-04	MH0F56	SAM	07/12/23 18:07		Jaswal	OK
101	O3448-15	MH0F69	SAM	07/12/23 18:10		Jaswal	OK
102	O3448-16	MH0F70	SAM	07/12/23 18:13		Jaswal	OK
103	O3448-17	MH0F71	SAM	07/12/23 18:16		Jaswal	OK
104	O3448-18	MH0F72	SAM	07/12/23 18:19		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

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Supervise By	Bin He	Supervise On	7/14/2023 8:48:56 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

105	O3448-19	MH0F73	SAM	07/12/23 18:22		Jaswal	OK
106	CCV026	CCV026	CCV	07/12/23 18:44		Jaswal	OK
107	CCB026	CCB026	CCB	07/12/23 18:48		Jaswal	OK
108	O3448-20	MH0F74	SAM	07/12/23 18:51		Jaswal	OK
109	O3448-21	MH0F75	SAM	07/12/23 18:54		Jaswal	OK
110	O3448-22	MH0F76	SAM	07/12/23 18:56		Jaswal	OK
111	PB153966BL	PBS966	MB	07/12/23 19:01		Jaswal	OK
112	PB153966BS	LCS966	LCS	07/12/23 19:04		Jaswal	OK
113	O3433-04	MJVA92	SAM	07/12/23 19:07		Jaswal	OK
114	O3433-05	MJVA92D	DUP	07/12/23 19:10		Jaswal	OK
115	O3433-04L	MJVA92L	SD	07/12/23 19:13		Jaswal	OK
116	O3433-06	MJVA92S	MS	07/12/23 19:16		Jaswal	OK
117	O3450-04	MH0F80	SAM	07/12/23 19:19		Jaswal	OK
118	O3450-05	MH0F80D	DUP	07/12/23 19:22		Jaswal	OK
119	O3450-04L	MH0F80L	SD	07/12/23 19:25		Jaswal	OK
120	O3450-06	MH0F80S	MS	07/12/23 19:28		Jaswal	OK
121	O3449-01	MH0F81	SAM	07/12/23 19:31		Jaswal	OK
122	O3449-02	MH0F81D	DUP	07/12/23 19:34		Jaswal	OK
123	O3449-01LRE	MH0F81L	SD	07/12/23 19:37	Not Use	Jaswal	Not Ok
124	O3449-03	MH0F81S	MS	07/12/23 19:40	MS Fail For Ba	Jaswal	OK
125	O3449-01L	MH0F81L	SD	07/12/23 19:43		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126407

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ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	MP76208
LCS Standard	MP75815
Chk Standard	MP76136,MP76135

126	O3433-01	MJVA80	SAM	07/12/23 19:46		Jaswal	OK
127	O3433-02	MJVA90	SAM	07/12/23 19:49		Jaswal	OK
128	O3433-03	MJVA91	SAM	07/12/23 19:52		Jaswal	OK
129	O3450-01	MH0F01	SAM	07/12/23 19:55		Jaswal	OK
130	O3450-02	MH0F05	SAM	07/12/23 19:58		Jaswal	OK
131	O3450-03	MH0F06	SAM	07/12/23 20:01		Jaswal	OK
132	O3449-04	MH0F82	SAM	07/12/23 20:04		Jaswal	OK
133	O3449-05	MH0F83	SAM	07/12/23 20:07		Jaswal	OK
134	O3449-06	MH0F84	SAM	07/12/23 20:10		Jaswal	OK
135	O3449-07	MH0F85	SAM	07/12/23 20:13		Jaswal	OK
136	O3449-08	MH0F86	SAM	07/12/23 20:16		Jaswal	OK
137	CCV027	CCV027	CCV	07/12/23 20:32		Jaswal	OK
138	CCB027	CCB027	CCB	07/12/23 20:36		Jaswal	OK
139	O3449-09	MH0F87	SAM	07/12/23 20:39		Jaswal	OK
140	O3449-10	MH0F88	SAM	07/12/23 20:42		Jaswal	OK
141	O3433-04A	MJVA92A	PS	07/12/23 20:45	Not Required	Jaswal	Not Ok
142	O3449-01A	MH0F81A	PS	07/12/23 20:48	PS For Ba(0.0082ml m5387-10ml sample)	Jaswal	OK
143	CCV028	CCV028	CCV	07/12/23 20:55		Jaswal	OK
144	CCB028	CCB028	CCB	07/12/23 20:58		Jaswal	OK

EPA SAMPLE NO.

MH0F01

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3450-01

% Solids: 77.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12	U	07/14/2023	1411

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F05

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3450-02

% Solids: 76.5 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	U	07/14/2023	1413

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F06

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3450-03

% Solids: 79 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12	U	07/14/2023	1415

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F80

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F01

Matrix: SOIL Lab Sample ID: O3450-04

% Solids: 83.4 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	U	07/14/2023	1417

NOTE: Hardness (total) is reported in mg/L

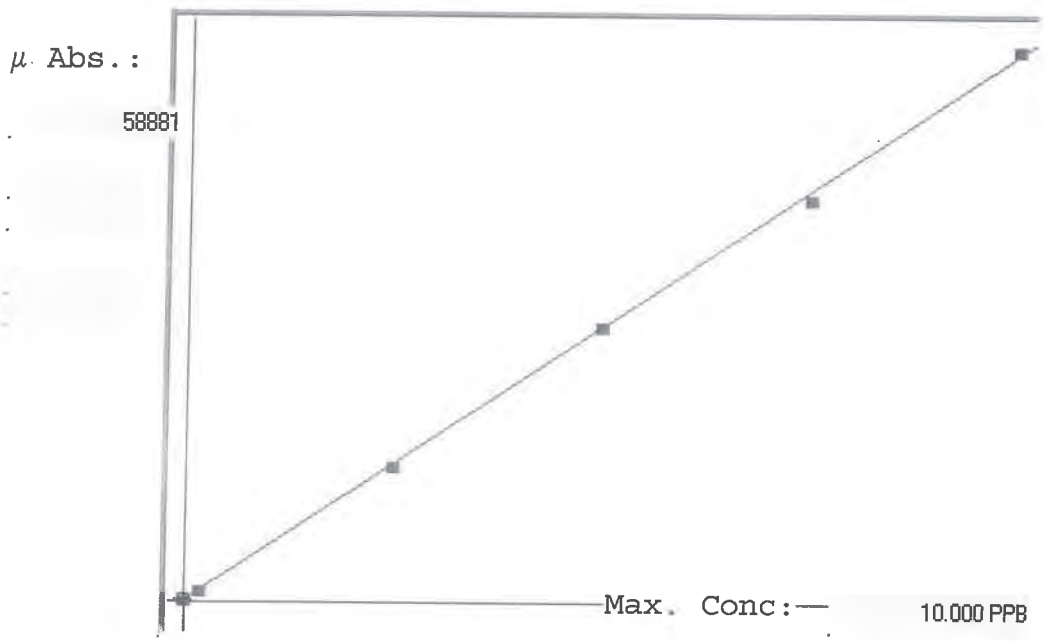
Comments:

Reviewed By:bin
On:7/15/2023 12:40:24 AM
Inst Id :CV1

LB126452

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.7170e-004 slope

C= -2.6024e-002 y-intercept

Rho= 0.9998367

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	% D
0.00	0.000	0.037	0.037	369	0.000	369					=
0.05	0.050					302	0				-3
0.20	0.200	0.195	-0.005	1290	0.0 %	1290					-1
2.50	2.500	2.482	-0.018	14609	0.0 %	14609					1
5.00	5.000	5.031	0.031	29453	0.0 %	29453					-2
7.50	7.500	7.370	-0.130	43074	0.0 %	43074					1
10.0	10.000	10.084	0.084	58881	0.0 %	58881					

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On:7/15/2023 12:40:24 AM
Inst Id :CV1

LB126452

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
	0 S0	369	-	0	SFAM01.1	PPB	7/14/2023 13:43	Std
	0.2 S01	1290	-	0.2	SFAM01.1	PPB	7/14/2023 13:45	Std
	2.5 S02	14609	-	2.5	SFAM01.1	PPB	7/14/2023 13:47	Std
	5 S03	29453	-	5	SFAM01.1	PPB	7/14/2023 13:49	Std
	7.5 S04	43074	-	7.5	SFAM01.1	PPB	7/14/2023 13:52	Std
	10 S05	58881	-	10	SFAM01.1	PPB	7/14/2023 13:54	Std
ICV071	ICV071	22917	3.9089	-	SFAM01.1	PPB	7/14/2023 13:59	SMPL
ICB071	ICB071	91	-0.0104	-	SFAM01.1	PPB	7/14/2023 14:02	SMPL
CCV040	CCV040	28988	4.9512	-	SFAM01.1	PPB	7/14/2023 14:04	SMPL
CCB040	CCB040	72	-0.0137	-	SFAM01.1	PPB	7/14/2023 14:06	SMPL
PB154006BL	PBS006	146	-0.001	-	SFAM01.1	PPB	7/14/2023 14:08	SMPL
O3450-01	MH0F01	480	0.0564	-	SFAM01.1	PPB	7/14/2023 14:11	SMPL
O3450-02	MH0F05	455	0.0521	-	SFAM01.1	PPB	7/14/2023 14:13	SMPL
O3450-03	MH0F06	231	0.0136	-	SFAM01.1	PPB	7/14/2023 14:15	SMPL
O3450-04	MH0F80	365	0.0366	-	SFAM01.1	PPB	7/14/2023 14:17	SMPL
O3450-05	MH0F80D	449	0.0511	-	SFAM01.1	PPB	7/14/2023 14:20	SMPL
O3450-06	MH0F80S	14008	2.3792	-	SFAM01.1	PPB	7/14/2023 14:22	SMPL
PB154209BL	PBS209	199	0.0081	-	SFAM01.1	PPB	7/14/2023 14:24	SMPL
O3583-01	EZZY9	1592	0.2473	-	SFAM01.1	PPB	7/14/2023 14:26	SMPL
O3583-02	EZZZ0	1299	0.197	-	SFAM01.1	PPB	7/14/2023 14:29	SMPL
O3583-03	EZZZ1	1246	0.1879	-	SFAM01.1	PPB	7/14/2023 14:31	SMPL
O3583-04	EZZZ2	1587	0.2465	-	SFAM01.1	PPB	7/14/2023 14:33	SMPL
O3583-05	EZZZ3	746	0.1021	-	SFAM01.1	PPB	7/14/2023 14:35	SMPL
O3583-06	EZZZ3D	865	0.1225	-	SFAM01.1	PPB	7/14/2023 14:40	SMPL
O3583-07	EZZZ3S	14432	2.452	-	SFAM01.1	PPB	7/14/2023 14:45	SMPL
PB154210BL	PBS210	346	0.0334	-	SFAM01.1	PPB	7/14/2023 14:47	SMPL
O3604-10	MH0FC4	947	0.1366	-	SFAM01.1	PPB	7/14/2023 14:50	SMPL
O3604-11	MH0FC4D	986	0.1433	-	SFAM01.1	PPB	7/14/2023 14:54	SMPL
O3604-13	MH0FG5	1164	0.1738	-	SFAM01.1	PPB	7/14/2023 14:59	SMPL
CCV041	CCV041	29201	4.9878	-	SFAM01.1	PPB	7/14/2023 15:01	SMPL
CCB041	CCB041	104	-0.0082	-	SFAM01.1	PPB	7/14/2023 15:03	SMPL
O3604-14	MH0FG6	2065	0.3285	-	SFAM01.1	PPB	7/14/2023 15:05	SMPL
O3604-15	MH0FG7	1446	0.2223	-	SFAM01.1	PPB	7/14/2023 15:08	SMPL
O3604-16	MH0FG8	1708	0.2672	-	SFAM01.1	PPB	7/14/2023 15:10	SMPL
O3604-17	MH0FG9	1800	0.283	-	SFAM01.1	PPB	7/14/2023 15:12	SMPL
O3604-18	MH0FH0	3647	0.6002	-	SFAM01.1	PPB	7/14/2023 15:14	SMPL
O3604-19	MH0FH1	9073	1.5318	-	SFAM01.1	PPB	7/14/2023 15:17	SMPL
O3604-20	MH0FH2	2766	0.4489	-	SFAM01.1	PPB	7/14/2023 15:19	SMPL
O3604-21	MH0FH3	1862	0.2937	-	SFAM01.1	PPB	7/14/2023 15:21	SMPL
O3604-22	MH0FH4	1178	0.1762	-	SFAM01.1	PPB	7/14/2023 15:23	SMPL
PB154211BL	PBS211	426	0.0471	-	SFAM01.1	PPB	7/14/2023 15:26	SMPL
O3605-01	MH0FH5	1241	0.1871	-	SFAM01.1	PPB	7/14/2023 15:28	SMPL
O3605-02	MH0FH6	1169	0.1747	-	SFAM01.1	PPB	7/14/2023 15:30	SMPL
O3605-03	MH0FH7	1833	0.2887	-	SFAM01.1	PPB	7/14/2023 15:33	SMPL
O3605-04	MH0FH8	1869	0.2949	-	SFAM01.1	PPB	7/14/2023 15:35	SMPL
O3605-05	MH0FH9	2506	0.4043	-	SFAM01.1	PPB	7/14/2023 15:37	SMPL

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Inst Id :CV1

LB126452

INSTRUMENT ID : CV1

O3605-06	MH0FJ0	6101	1.0215	-	SFAM01.1	PPB	7/14/2023 15:39	SMPL
O3605-07	MH0FJ1	1545	0.2393	-	SFAM01.1	PPB	7/14/2023 15:42	SMPL
O3605-08	MH0FJ2	51757	8.8607	-	SFAM01.1	PPB	7/14/2023 15:44	SMPL
O3605-09	MH0FJ3	3647	0.6002	-	SFAM01.1	PPB	7/14/2023 15:46	SMPL
O3605-10	MH0FJ4	2087	0.3323	-	SFAM01.1	PPB	7/14/2023 15:48	SMPL
CCV042	CCV042	29483	5.0362	-	SFAM01.1	PPB	7/14/2023 15:51	SMPL
CCB042	CCB042	314	0.0279	-	SFAM01.1	PPB	7/14/2023 15:53	SMPL
O3605-11	MH0FJ5	843	0.1187	-	SFAM01.1	PPB	7/14/2023 15:55	SMPL
O3605-12	MH0FJ6	1357	0.207	-	SFAM01.1	PPB	7/14/2023 15:57	SMPL
O3605-13	MH0FJ6D	1272	0.1924	-	SFAM01.1	PPB	7/14/2023 16:00	SMPL
O3605-14	MH0FJ6S	15773	2.6822	-	SFAM01.1	PPB	7/14/2023 16:02	SMPL
O3605-15	MH0FJ7	231020	39.6404	-	SFAM01.1	PPB	7/14/2023 16:04	SMPL
O3605-16	MH0FJ8	1480	0.2281	-	SFAM01.1	PPB	7/14/2023 16:06	SMPL
O3605-17	MH0FJ9	4620	0.7672	-	SFAM01.1	PPB	7/14/2023 16:09	SMPL
O3605-18	MH0FK0	5245	0.8745	-	SFAM01.1	PPB	7/14/2023 16:11	SMPL
O3605-19	MH0FK1	7175	1.2059	-	SFAM01.1	PPB	7/14/2023 16:13	SMPL
PB154212BL	PBS212	154	0.0004	-	SFAM01.1	PPB	7/14/2023 16:15	SMPL
O3511-03	A46Q2	394	0.0416	-	SFAM01.1	PPB	7/14/2023 16:18	SMPL
O3511-04	A46Q2D	359	0.0356	-	SFAM01.1	PPB	7/14/2023 16:20	SMPL
O3511-05	A46Q2S	15823	2.6908	-	SFAM01.1	PPB	7/14/2023 16:25	SMPL
O3511-06	A46S7	4936	0.8215	-	SFAM01.1	PPB	7/14/2023 16:27	SMPL
O3511-07	A46T0	2215	0.3543	-	SFAM01.1	PPB	7/14/2023 16:30	SMPL
O3511-08	A46T6	19297	3.2873	-	SFAM01.1	PPB	7/14/2023 16:32	SMPL
O3511-09	A46T7	15074	2.5622	-	SFAM01.1	PPB	7/14/2023 16:34	SMPL
O3511-10	A46T8	5359	0.8941	-	SFAM01.1	PPB	7/14/2023 16:36	SMPL
O3511-11	A46T9	3881	0.6403	-	SFAM01.1	PPB	7/14/2023 16:39	SMPL
O3511-12	A46W0	8056	1.3572	-	SFAM01.1	PPB	7/14/2023 16:41	SMPL
CCV043	CCV043	29704	5.0742	-	SFAM01.1	PPB	7/14/2023 16:43	SMPL
CCB043	CCB043	329	0.0305	-	SFAM01.1	PPB	7/14/2023 16:45	SMPL
O3511-13	A46W4	29394	5.021	-	SFAM01.1	PPB	7/14/2023 16:48	SMPL
O3511-14	A46W1	18529	3.1554	-	SFAM01.1	PPB	7/14/2023 16:50	SMPL
O3511-15	A46W2	18162	3.0924	-	SFAM01.1	PPB	7/14/2023 16:52	SMPL
O3511-16	A46W5	8565	1.4446	-	SFAM01.1	PPB	7/14/2023 16:54	SMPL
O3511-17	A46W6	199	0.0081	-	SFAM01.1	PPB	7/14/2023 16:57	SMPL
O3511-18	A46W7	626	0.0815	-	SFAM01.1	PPB	7/14/2023 16:59	SMPL
O3511-19	A46W8	2011	0.3193	-	SFAM01.1	PPB	7/14/2023 17:01	SMPL
O3511-20	A46W3	30621	5.2316	-	SFAM01.1	PPB	7/14/2023 17:04	SMPL
O3511-21	A46W9	2010	0.3191	-	SFAM01.1	PPB	7/14/2023 17:06	SMPL
O3511-22	A46X3	25510	4.3541	-	SFAM01.1	PPB	7/14/2023 17:08	SMPL
O3511-23	A46X4	23773	4.0558	-	SFAM01.1	PPB	7/14/2023 17:10	SMPL
O3511-24	A46X5	21154	3.6061	-	SFAM01.1	PPB	7/14/2023 17:13	SMPL
O3604-12	MH0FC4S	15714	2.6721	-	SFAM01.1	PPB	7/14/2023 17:15	SMPL
O3605-15DLX10	MH0FJ7	25284	4.3153	-	SFAM01.1	PPB	7/14/2023 17:17	SMPL
CCV044	CCV044	29708	5.0749	-	SFAM01.1	PPB	7/14/2023 17:22	SMPL
CCB044	CCB044	332	0.031	-	SFAM01.1	PPB	7/14/2023 17:25	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : O329M

Test : e r αuydP

Prepbatch ID : B1592MM, L

Sequence ID/Qc Batch ID: 6150, 290L

Standard ID :
e B79887Le B79888Le B7, 084Le B7, 088Le B7, 3MMe B7, 3M5Le B7, 3M0Le B7, 3M3Le B7, 3M2Le B7, 3M9Le B7, 3M, Le B7, 3 M7Le B7, 3M4Le B7, 355Le B7, 350L

Chemical ID :
e 2375Le 2298Le 285, Le 280Me 9M, 0Le 9904Le 9, M, Le 9, M8LW0, M, L

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP75997	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP75999	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4459 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76298	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 1.00000ml of M5609 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP76299	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP76300	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.30000ml of W2606 + 0.20000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP76301	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 245.00000ml of W2606 + 2.50000ml of MP76298 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP76302	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 242.50000ml of W2606 + 5.00000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP76303	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 240.00000ml of W2606 + 7.50000ml of MP76298 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76304	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 237.50000ml of W2606 + 10.00000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP76305	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5609 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76306	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76307	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5609 + 10.00000ml of MP76298 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76308	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5609 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP76311	07/14/2023	07/15/2023	Mohan Bera	None	None	Sarabjit Jaswal 07/15/2023

FROM 150.00000ml of M5606 + 50.00000ml of M5609 = Final Quantity: 200.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP76312	07/14/2023	07/15/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/15/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5606 = Final Quantity: 500.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/11/2024	07/10/2023 / Al-Terek	01/13/2023 / Al-Terek	M5609

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

1064

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4917 - 20
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M5528-32
MB

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154006

SOP ID : M7471B-Mercury-17, MSFAM01.1-Mercury in Soil-2

SDG No : MH0F01

Start Digest Date: 07/14/2023 **Time :** 10:40 **Temp :** 94 °C

Matrix : SOIL

End Digest Date: 07/14/2023 **Time :** 11:10 **Temp :** 93 °C

Pippete ID: HG A

Digestion tube ID: M5593

Balance ID : M SC-3

Block thermometer ID: HG-DIG#1

Filter paper ID : NA

Dig Technician Signature: MB

pH Strip ID : NA

Supervisor Signature: MB 12

Hood ID : #1

Block ID: **1.** HG HOT BLOCK#1 **2.** N/A

Temp : **1.** 94°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP76305
CCV	100mL	MP76307
Matrix Spike	1.0mL	MP76298
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP76311
KMnO4	15.0mL	MP75997
Hydroxylamine HCL	6.0mL	MP75999
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP76299
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP76300
2.5 ppb	S2.5	100mL	MP76301
5.0 ppb	S5.0	100mL	MP76302
7.5 ppb	S7.5	100mL	MP76303
10.0 ppb	S10.0	100mL	MP76304
ICV	ICV	100mL	MP76305
ICB	ICB	100mL	MP76306
CCV	CCV	100mL	MP76307
CCB	CCB	100mL	MP76308
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/14/23 @ 11:50	MB - Dig. lab	MB-metal lab
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154006

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
D3450-01	MH0F01	0.55	100	NA	N/A	1-1
D3450-02	MH0F05	0.58	100	NA	N/A	2
D3450-03	MH0F06	0.54	100	NA	N/A	3
D3450-04	MH0F80	0.55	100	NA	N/A	4
D3450-05	MH0F80D	0.52	100	NA	N/A	5
D3450-06	MH0F80S	0.57	100	NA	MP76298	6
PB154006BL	PBS006	0.50	100	NA	N/A	7

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/14/23 13:43		mohan	OK
2	S0.2	S01	CAL2	07/14/23 13:45		mohan	OK
3	S2.5	S02	CAL3	07/14/23 13:47		mohan	OK
4	S5	S03	CAL4	07/14/23 13:49		mohan	OK
5	S7.5	S04	CAL5	07/14/23 13:52		mohan	OK
6	S10	S05	CAL6	07/14/23 13:54		mohan	OK
7	ICV071	ICV071	ICV	07/14/23 13:59		mohan	OK
8	ICB071	ICB071	ICB	07/14/23 14:02		mohan	OK
9	CCV040	CCV040	CCV	07/14/23 14:04		mohan	OK
10	CCB040	CCB040	CCB	07/14/23 14:06		mohan	OK
11	PB154006BL	PBS006	MB	07/14/23 14:08		mohan	OK
12	O3450-01	MH0F01	SAM	07/14/23 14:11		mohan	OK
13	O3450-02	MH0F05	SAM	07/14/23 14:13		mohan	OK
14	O3450-03	MH0F06	SAM	07/14/23 14:15		mohan	OK
15	O3450-04	MH0F80	SAM	07/14/23 14:17		mohan	OK
16	O3450-05	MH0F80D	DUP	07/14/23 14:20		mohan	OK
17	O3450-06	MH0F80S	MS	07/14/23 14:22		mohan	OK
18	PB154209BL	PBS209	MB	07/14/23 14:24		mohan	OK
19	O3583-01	EZZY9	SAM	07/14/23 14:26		mohan	OK
20	O3583-02	EZZZ0	SAM	07/14/23 14:29		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

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ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

21	O3583-03	EZZZ1	SAM	07/14/23 14:31		mohan	OK
22	O3583-04	EZZZ2	SAM	07/14/23 14:33		mohan	OK
23	O3583-05	EZZZ3	SAM	07/14/23 14:35		mohan	OK
24	O3583-06	EZZZ3D	DUP	07/14/23 14:40		mohan	OK
25	O3583-07	EZZZ3S	MS	07/14/23 14:45		mohan	OK
26	PB154210BL	PBS210	MB	07/14/23 14:47		mohan	OK
27	O3604-10	MH0FC4	SAM	07/14/23 14:50		mohan	OK
28	O3604-11	MH0FC4D	DUP	07/14/23 14:54		mohan	OK
29	O3604-13	MH0FG5	SAM	07/14/23 14:59		mohan	OK
30	CCV041	CCV041	CCV	07/14/23 15:01		mohan	OK
31	CCB041	CCB041	CCB	07/14/23 15:03		mohan	OK
32	O3604-14	MH0FG6	SAM	07/14/23 15:05		mohan	OK
33	O3604-15	MH0FG7	SAM	07/14/23 15:08		mohan	OK
34	O3604-16	MH0FG8	SAM	07/14/23 15:10		mohan	OK
35	O3604-17	MH0FG9	SAM	07/14/23 15:12		mohan	OK
36	O3604-18	MH0FH0	SAM	07/14/23 15:14		mohan	OK
37	O3604-19	MH0FH1	SAM	07/14/23 15:17		mohan	OK
38	O3604-20	MH0FH2	SAM	07/14/23 15:19		mohan	OK
39	O3604-21	MH0FH3	SAM	07/14/23 15:21		mohan	OK
40	O3604-22	MH0FH4	SAM	07/14/23 15:23		mohan	OK
41	PB154211BL	PBS211	MB	07/14/23 15:26		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

42	O3605-01	MH0FH5	SAM	07/14/23 15:28		mohan	OK
43	O3605-02	MH0FH6	SAM	07/14/23 15:30		mohan	OK
44	O3605-03	MH0FH7	SAM	07/14/23 15:33		mohan	OK
45	O3605-04	MH0FH8	SAM	07/14/23 15:35		mohan	OK
46	O3605-05	MH0FH9	SAM	07/14/23 15:37		mohan	OK
47	O3605-06	MH0FJ0	SAM	07/14/23 15:39		mohan	OK
48	O3605-07	MH0FJ1	SAM	07/14/23 15:42		mohan	OK
49	O3605-08	MH0FJ2	SAM	07/14/23 15:44		mohan	OK
50	O3605-09	MH0FJ3	SAM	07/14/23 15:46		mohan	OK
51	O3605-10	MH0FJ4	SAM	07/14/23 15:48		mohan	OK
52	CCV042	CCV042	CCV	07/14/23 15:51		mohan	OK
53	CCB042	CCB042	CCB	07/14/23 15:53		mohan	OK
54	O3605-11	MH0FJ5	SAM	07/14/23 15:55		mohan	OK
55	O3605-12	MH0FJ6	SAM	07/14/23 15:57		mohan	OK
56	O3605-13	MH0FJ6D	DUP	07/14/23 16:00		mohan	OK
57	O3605-14	MH0FJ6S	MS	07/14/23 16:02		mohan	OK
58	O3605-15	MH0FJ7	SAM	07/14/23 16:04	Hg High	mohan	Dilution
59	O3605-16	MH0FJ8	SAM	07/14/23 16:06		mohan	OK
60	O3605-17	MH0FJ9	SAM	07/14/23 16:09		mohan	OK
61	O3605-18	MH0FK0	SAM	07/14/23 16:11		mohan	OK
62	O3605-19	MH0FK1	SAM	07/14/23 16:13		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

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Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

63	PB154212BL	PBS212	MB	07/14/23 16:15		mohan	OK
64	O3511-03	A46Q2	SAM	07/14/23 16:18		mohan	OK
65	O3511-04	A46Q2D	DUP	07/14/23 16:20		mohan	OK
66	O3511-05	A46Q2S	MS	07/14/23 16:25		mohan	OK
67	O3511-06	A46S7	SAM	07/14/23 16:27		mohan	OK
68	O3511-07	A46T0	SAM	07/14/23 16:30		mohan	OK
69	O3511-08	A46T6	SAM	07/14/23 16:32		mohan	OK
70	O3511-09	A46T7	SAM	07/14/23 16:34		mohan	OK
71	O3511-10	A46T8	SAM	07/14/23 16:36		mohan	OK
72	O3511-11	A46T9	SAM	07/14/23 16:39		mohan	OK
73	O3511-12	A46W0	SAM	07/14/23 16:41		mohan	OK
74	CCV043	CCV043	CCV	07/14/23 16:43		mohan	OK
75	CCB043	CCB043	CCB	07/14/23 16:45		mohan	OK
76	O3511-13	A46W4	SAM	07/14/23 16:48		mohan	OK
77	O3511-14	A46W1	SAM	07/14/23 16:50		mohan	OK
78	O3511-15	A46W2	SAM	07/14/23 16:52		mohan	OK
79	O3511-16	A46W5	SAM	07/14/23 16:54		mohan	OK
80	O3511-17	A46W6	SAM	07/14/23 16:57		mohan	OK
81	O3511-18	A46W7	SAM	07/14/23 16:59		mohan	OK
82	O3511-19	A46W8	SAM	07/14/23 17:01		mohan	OK
83	O3511-20	A46W3	SAM	07/14/23 17:04		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

84	O3511-21	A46W9	SAM	07/14/23 17:06		mohan	OK
85	O3511-22	A46X3	SAM	07/14/23 17:08		mohan	OK
86	O3511-23	A46X4	SAM	07/14/23 17:10		mohan	OK
87	O3511-24	A46X5	SAM	07/14/23 17:13		mohan	OK
88	O3604-12	MH0FC4S	MS	07/14/23 17:15		mohan	OK
89	O3605-15DL	MH0FJ7	SAM	07/14/23 17:17	10X for Hg	mohan	Confirms
90	CCV044	CCV044	CCV	07/14/23 17:22		mohan	OK
91	CCB044	CCB044	CCB	07/14/23 17:25		mohan	OK

1086

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 60.60 LB
CAD: 675101/CSFU2422
DIMS: 24x15x15 IN

BILL THIRD PARTY

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24
INV:
PO: DEPT:

6/27/23

13:30

18.3

FedEx Express

J232023040501uv

2 of 6

MPS# 0263 **7802 8789 1526**

Mstr# 7802 8789 1515 0201

TE KBCA

TUE - 27 JUN 4:30P
**** 2DAY ****

07092
NJ-US **EWR**

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3450	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Sohil
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	6/30/2023 9:47:02 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3450-01	MH0F01	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3450-02	MH0F05	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3450-03	MH0F06	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3450-04	MH0F80	Solid	06/13/2023		DUP				
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3450-05	MH0F80D	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3450-06	MH0F80S	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS FULL		SFAM_MS	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153966 **WorkList ID :** 171571 **Department :** Digestion **Date :** 07-07-2023 08:54:07

1088

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3433-01	MJVA80	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-02	MJVA90	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-03	MJVA91	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-04	MJVA92	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-05	MJVA92D	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3433-06	MJVA92S	Solid	Metals CLP4 MS	Cool 4 deg C	USEP01	B22	06/22/2023	SFAM_MS
O3450-03	MH0F06	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-04	MH0F80	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-05	MH0F80D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-06	MH0F80S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3449-07	MH0F85	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3449-08	MH0F86	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3449-09	MH0F87	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3449-10	MH0F88	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS
O3450-01	MH0F01	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3450-02	MH0F05	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_MS
O3449-01	MH0F81	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-02	MH0F81D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-03	MH0F81S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-04	MH0F82	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/13/2023	SFAM_MS
O3449-05	MH0F83	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS

Date/Time 7/7/23 8:55

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 7/7/23 9:45

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB153966 **WorkList ID :** 171571 **Department :** Digestion **Date :** 07-03-2023 10:54:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3449-06	MH0F84	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	B41	06/12/2023	SFAM_MS

Date/Time 7/7/23 8:55
Raw Sample Received by: AHBig Lab
Raw Sample Relinquished by: CP SM

Date/Time 7/7/23 9:45
Raw Sample Received by: CP SM
Raw Sample Relinquished by: AHBig Lab

1089

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3450_HgS **WorkList ID :** 171593 **Department :** Digestion **Date :** 07-05-2023 08:50:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3450-01	MH0F01	Solid	Mercury	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_HG
O3450-02	MH0F05	Solid	Mercury	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_HG
O3450-03	MH0F06	Solid	Mercury	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_HG
O3450-04	MH0F80	Solid	Mercury	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_HG
O3450-05	MH0F80D	Solid	Mercury	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_HG
O3450-06	MH0F80S	Solid	Mercury	Cool 4 deg C	USEP01	B13	06/13/2023	SFAM_HG

1090

Date/Time 7/14/23 @ 10:15
Raw Sample Received by: MB - Dig. Lab
Raw Sample Relinquished by: [illegible]

Date/Time 7/14/23 @ 10:55
Raw Sample Received by: [illegible]
Raw Sample Relinquished by: MB - Dig. Lab

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0FC5

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0FC5	O3602-01			X	
MH0FC6	O3602-02			X	
MH0FC7	O3602-03			X	
MH0FC7D	O3602-04			X	
MH0FC7S	O3602-05			X	
MH0FC8	O3602-06			X	
MH0FC9	O3602-07			X	
MH0FD0	O3602-08			X	
MH0FD1	O3602-09			X	
MH0FD2	O3602-10			X	
MH0FD3	O3602-11			X	
MH0FD4	O3602-12			X	
MH0FE5	O3602-13			X	
MH0FE6	O3602-14			X	
MH0FE7	O3602-15			X	
MH0FE8	O3602-16			X	
MH0FE9	O3602-17			X	
MH0FF0	O3602-18			X	
MH0FF1	O3602-19			X	
MH0FF2	O3602-20			X	
MH0FF3	O3602-21			X	
MH0FF4	O3602-22			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name:

Date: 7/17/2023 Title:

APPROVED

By Nimisha Pandya QA/QC Supervisor at 12:09 pm, Jul 17, 2023

USEPA CLP COC (LAB COPY)
DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002
Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only	
F82	HWY-SS01-1-6-DUPHG	MH0FC5	Soil/ leyoub_Patrick	Composite	Hg(21)	1219 (3)	01	06/13/2023 10:00	~~QC~~	1
F81	HWY-SS01-0-1-DUPHG	MH0FC6	Soil/ leyoub_Patrick	Composite	Hg(21)	1217 (1)	01	06/13/2023 10:00		1
MH0F03	HWY-SS01-1-6HG	MH0FC7	Soil/ leyoub_Patrick	Composite	Hg(21)	1013 (1)	01	06/13/2023 10:00	4 QC	1
MH0F07	HWY-SS02-0-1HG	MH0FC8	Soil/ leyoub_Patrick	Composite	Hg(21)	1028 (1)	02	06/13/2023 14:50		1
MH0F08	HWY-SS02-1-6HG	MH0FC9	Soil/ leyoub_Patrick	Composite	Hg(21)	1031 (1)	02	06/13/2023 14:50		1
F09	HWY-SS03-0-1HG	MH0FD0	Soil/ leyoub_Patrick	Composite	Hg(21)	1034 (1)	03	06/13/2023 07:45		1
F10	HWY-SS03-1-6HG	MH0FD1	Soil/ leyoub_Patrick	Composite	Hg(21)	1037 (1)	03	06/13/2023 07:45		1
F11	HWY-SS04-0-1HG	MH0FD2	Soil/ leyoub_Patrick	Composite	Hg(21)	1040 (1)	04	06/13/2023 15:45		1
F12	HWY-SS04-1-6HG	MH0FD3	Soil/ leyoub_Patrick	Composite	Hg(21)	1043 (1)	04	06/13/2023 15:45		1
F13	HWY-SS05-0-1HG	MH0FD4	Soil/ leyoub_Patrick	Composite	Hg(21)	1046 (1)	05	06/13/2023 12:30		1

Sample(s) to be used for Lab QC: HWY-SS01-1-6-DUPHG Tag 1219

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700	[signature]	6/27/23 13:30	17.8°C, 20.1°C, 21.2°C
					IR GUN #1
					No Temp blank
					Custody Seal Intact

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
F26	HWY-SS12-1-6HG	MH0FE5	Soil/ LaFemina_Matt	Composite	Hg(21)	1085 (1)	12	06/12/2023 10:30	2
F83	HWY-SS13-0-1-DUPHG	MH0FE6	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1221 (1)	13	06/12/2023 15:15	2
F27	HWY-SS13-0-1HG	MH0FE7	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1088 (1)	13	06/12/2023 15:15	2
F84	HWY-SS13-1-6-DUPHG	MH0FE8	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1223 (1)	13	06/12/2023 15:15	2
F28	HWY-SS13-1-6HG	MH0FE9	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1091 (1)	13	06/12/2023 15:15	2
F29	HWY-SS14-0-1HG	MH0FF0	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1094 (1)	14	06/12/2023 12:15	2
F30	HWY-SS14-1-6HG	MH0FF1	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1097 (1)	14	06/12/2023 12:15	2
F31	HWY-SS15-0-1HG	MH0FF2	Soil/ Davis_Brandi	Composite	Hg(21)	1100 (1)	15	06/13/2023 09:27	2
F32	HWY-SS15-1-6HG	MH0FF3	Soil/ Davis_Brandi	Composite	Hg(21)	1103 (1)	15	06/13/2023 09:27	3
F33	HWY-SS16-0-1HG	MH0FF4	Soil/ Davis_Brandi	Composite	Hg(21)	1106 (1)	16	06/13/2023 09:00	3

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700	[signature]	6/27/23 13:30	17.8°C, 20.1°C, 21.2°C IR GUN #1 No Temp blank Custody Seal Intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 3
Received By (Print Name) Cassandra Ruiz		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FC5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891515 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	17.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH0FC5	N/A	1219	O3602-01	Intact
2	MH0FC6	N/A	1217	O3602-02	Intact
3	MH0FC7	N/A	1013	O3602-03	Intact
4	MH0FC7D	N/A	1013	O3602-04	Intact
5	MH0FC7S	N/A	1013	O3602-05	Intact
6	MH0FC8	N/A	1028	O3602-06	Intact
7	MH0FC9	N/A	1031	O3602-07	Intact
8	MH0FD0	N/A	1034	O3602-08	Intact
9	MH0FD1	N/A	1037	O3602-09	Intact
10	MH0FD2	N/A	1040	O3602-10	Intact
11	MH0FD3	N/A	1043	O3602-11	Intact
12	MH0FD4	N/A	1046	O3602-12	Intact
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 2 of 3
Received By (Print Name) Cassandra Reis		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FC5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891537 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	20.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FE5	N/A	1085	O3602-13	Intact
2	MH0FE6	N/A	1021	O3602-14	Intact
3	MH0FE7	N/A	1088	O3602-15	Intact
4	MH0FE8	N/A	1023	O3602-16	Intact
5	MH0FE9	N/A	1091	O3602-17	Intact
6	MH0FF0	N/A	1094	O3602-18	Intact
7	MH0FF1	N/A	1097	O3602-19	Intact
8	MH0FF2	N/A	1100	O3602-20	Intact
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 3 of 3
Received By (Print Name) Cassanova Reis		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FC5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891548 3
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	21.2 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FF3	N/A	1103	O3602-21	Intact
2	MH0FF4	N/A	1106	O3602-22	Intact
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0FC5**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	6	✓	
4 . CSF Inventory Sheet (DC-2)	7	9	✓	
5 . SDG Narrative	10	12	✓	
6 . Communication Logs	13	34	✓	
7 . Percent Solids Log	35	37	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	NA	NA	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	38	57	✓	
27. Instrument raw data by instrument in analysis order	58	60	✓	
Other Data				
28. Standard and Reagent Preparation Logs	61	90	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	91	92	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	93	95	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 3)	96	98	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	99	100	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	101	102	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab) N. N. Pandya (Signature) | Nimisha Pandya, Document Control Officer (Print Name & Title) | 7/17/2023 (Date)

Audited by: (EPA) (Signature) | (Print Name & Title) | (Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0FC5
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3602

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Hg.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**

Cooler: 17.8^{o}C, 20.1^{o}C, & 21.2^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.

Issue 4: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 4: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with ICP-MS analysis for the dried soil samples and Hg analysis for the wet soil samples

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0FC5:

If C = 0.3991 ppb
Vf = 100 mL
W = 0.53 g
S = 0.851(85.1/100)
DF = 1

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284 Sheffield Street
Mountainside, NJ 07092

$$\text{Concentration (mg/kg)} = 0.3991 \times \frac{100}{0.53 \times 0.851} \times 1 / 1000$$

$$= 0.08848 \text{ mg/kg}$$

$$= 0.088 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Blank analyses did not indicate any presence of contamination. Spike sample did meet requirements. Duplicate sample did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya Name: Nimisha Pandya

Date 7/17/2023 Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett'; Britz, Helen; Gambrah, Derrick
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL
Attachments: Revised COC_8-061523-134849-0002_v20230707.pdf

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247

303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick

Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen'

<Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

Environmental Analyst Associate
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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,
Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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15036 Conference Center Drive, Chantilly, VA 20151
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Samantha.Sosko@gdit.com
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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
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Samantha.Sosko@gdit.com
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

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Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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Samantha.Sosko@gdit.com
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/14/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 13:50
In Date: 07/13/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:42
Out Date: 07/14/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126421

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3602-01	MH0FC5	1	1.14	8.83	9.97	8.65	85.1	
O3602-02	MH0FC6	2	1.13	8.68	9.81	7.43	72.6	
O3602-03	MH0FC7	3	1.15	8.47	9.62	7.24	71.9	
O3602-04	MH0FC7D	4	1.15	8.47	9.62	7.24	71.9	
O3602-05	MH0FC7S	5	1.15	8.47	9.62	7.24	71.9	
O3602-06	MH0FC8	6	1.12	8.81	9.93	7.7	74.7	
O3602-07	MH0FC9	7	1.12	8.74	9.86	8.08	79.6	
O3602-08	MH0FD0	8	1.19	8.42	9.61	7.59	76.0	
O3602-09	MH0FD1	9	1.16	8.81	9.97	8.83	87.1	
O3602-10	MH0FD2	10	1.18	8.79	9.97	8.28	80.8	
O3602-11	MH0FD3	11	1.16	8.82	9.98	9.3	92.3	
O3602-12	MH0FD4	12	1.12	8.48	9.6	7.3	72.9	
O3602-13	MH0FE5	13	1.15	8.51	9.66	8.27	83.7	
O3602-14	MH0FE6	14	1.16	8.48	9.64	7.26	71.9	
O3602-15	MH0FE7	15	1.17	8.51	9.68	6.18	58.9	
O3602-16	MH0FE8	16	1.11	8.42	9.53	7.36	74.2	
O3602-17	MH0FE9	17	1.15	8.81	9.96	7.81	75.6	
O3602-18	MH0FF0	18	1.16	8.60	9.76	7.71	76.2	
O3602-19	MH0FF1	19	1.17	8.36	9.53	8.15	83.5	
O3602-20	MH0FF2	20	1.18	8.80	9.98	7.57	72.6	
O3602-21	MH0FF3	21	1.14	8.85	9.99	8.94	88.1	
O3602-22	MH0FF4	22	1.12	8.46	9.58	8.18	83.5	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WB 126421

WorkList Name : %1-O3602 **WorkList ID :** 171841 **Department :** Wet-Chemistry **Date :** 07-13-2023 09:34:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3602-01	MH0FC5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-02	MH0FC6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-03	MH0FC7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-04	MH0FC7D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-05	MH0FC7S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-06	MH0FC8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-07	MH0FC9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-08	MH0FD0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-09	MH0FD1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-10	MH0FD2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-11	MH0FD3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-12	MH0FD4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-13	MH0FE5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3602-14	MH0FE6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3602-15	MH0FE7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3602-16	MH0FE8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3602-17	MH0FE9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	07/12/2023	Chemtech -SO
O3602-18	MH0FF0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	07/12/2023	Chemtech -SO
O3602-19	MH0FF1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	07/12/2023	Chemtech -SO
O3602-20	MH0FF2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	07/12/2023	Chemtech -SO
O3602-21	MH0FF3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	07/13/2023	Chemtech -SO

Date/Time 07-13-23 12:35

Raw Sample Received by: JD (CDC)

Raw Sample Relinquished by: JD (SM)

Date/Time 07-13-23 14:00

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: JD (CDC)

WORKLIST(Hardcopy Internal Chain)

VB12642)

WorkList Name : %1-O3602 **WorkList ID :** 171841 **Department :** Wet-Chemistry **Date :** 07-13-2023 09:34:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3602-22	MH0FF4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	07/13/2023	Chemtech -SO

37

Date/Time 07-13-23 12:35

Raw Sample Received by: JD(WC)

Raw Sample Relinquished by: JD(SM)

Date/Time 07-13-23 14:00

Raw Sample Received by: JD(SM)

Raw Sample Relinquished by: JD (WC)

EPA SAMPLE NO.

MH0FC5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-01

% Solids: 85.1 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.088	J	07/13/2023	1650

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FC6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-02

% Solids: 72.6 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.036	J	07/13/2023	1652

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FC7

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-03

% Solids: 71.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.047	J	07/13/2023	1654

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FC8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-06

% Solids: 74.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.035	J	07/13/2023	1701

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FC9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-07

% Solids: 79.6 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.046	J	07/13/2023	1704

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-08

% Solids: 76 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.42		07/13/2023	1706

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-09

% Solids: 87.1 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.079	J	07/13/2023	1708

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-10

% Solids: 80.8 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12	U	07/13/2023	1710

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-11

% Solids: 92.3 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.10	U	07/13/2023	1713

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-12

% Solids: 72.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.069	J	07/13/2023	1715

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-13

% Solids: 83.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11		07/13/2023	1717

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-14

% Solids: 71.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J	07/13/2023	1719

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE7

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-15

% Solids: 58.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.22		07/13/2023	1722

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-16

% Solids: 74.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.17		07/13/2023	1724

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-17

% Solids: 75.6 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.058	J	07/13/2023	1726

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-18

% Solids: 76.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.030	J	07/13/2023	1728

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-19

% Solids: 83.5 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.020	J	07/13/2023	1731

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-20

% Solids: 72.6 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J	07/13/2023	1738

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-21

% Solids: 88.1 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.053	J	07/13/2023	1740

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3602-22

% Solids: 83.5 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.062	J	07/13/2023	1742

NOTE: Hardness (total) is reported in mg/L

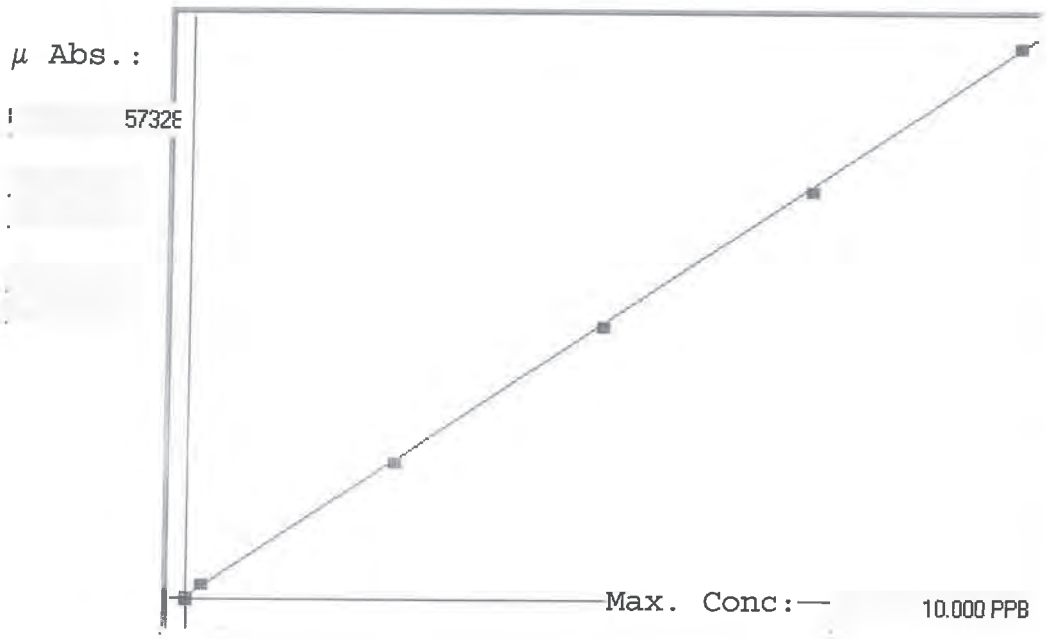
Comments:

Reviewed By:jaswal
On:7/14/2023 10:13:11 AM
Inst Id :CV1

LB126438

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.7592e-004 slope

C= -3.2382e-002 y-intercept

Rho= 0.9999469

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	G/D
0.00	0.000	-0.011	-0.011	122	0.000	122					1
0.05	0.050					302	0				-24
0.20	0.200	0.248	0.048	1596	0.0 %	1596					0
2.50	2.500	2.491	-0.009	14344	0.0 %	14344					-1
5.00	5.000	4.966	-0.034	28411	0.0 %	28411					-1
7.50	7.500	7.453	-0.047	42552	0.0 %	42552					1
10.0	10.000	10.053	0.053	57328	0.0 %	57328					

Reviewed By:jaswal
On:7/14/2023 10:13:11 AM
Inst Id :CV1

LB126438

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
0	S0	122	-	0	SFAM01.1	PPB	7/13/2023 16:23	Std
0.2	S01	1596	-	0.2	SFAM01.1	PPB	7/13/2023 16:25	Std
2.5	S02	14344	-	2.5	SFAM01.1	PPB	7/13/2023 16:27	Std
5	S03	28411	-	5	SFAM01.1	PPB	7/13/2023 16:31	Std
7.5	S04	42552	-	7.5	SFAM01.1	PPB	7/13/2023 16:34	Std
10	S05	57328	-	10	SFAM01.1	PPB	7/13/2023 16:36	Std
ICV070	ICV070	22248	3.8814	-	SFAM01.1	PPB	7/13/2023 16:39	SMPL
ICB070	ICB070	90	-0.0165	-	SFAM01.1	PPB	7/13/2023 16:41	SMPL
CCV036	CCV036	28342	4.9535	-	SFAM01.1	PPB	7/13/2023 16:43	SMPL
CCB036	CCB036	96	-0.0155	-	SFAM01.1	PPB	7/13/2023 16:45	SMPL
PB154186BL	PBS186	115	-0.0122	-	SFAM01.1	PPB	7/13/2023 16:48	SMPL
O3602-01	MH0FC5	2453	0.3991	-	SFAM01.1	PPB	7/13/2023 16:50	SMPL
O3602-02	MH0FC6	935	0.1321	-	SFAM01.1	PPB	7/13/2023 16:52	SMPL
O3602-03	MH0FC7	1209	0.1803	-	SFAM01.1	PPB	7/13/2023 16:54	SMPL
O3602-04	MH0FC7D	1280	0.1928	-	SFAM01.1	PPB	7/13/2023 16:57	SMPL
O3602-05	MH0FC7S	14552	2.5276	-	SFAM01.1	PPB	7/13/2023 16:59	SMPL
O3602-06	MH0FC8	961	0.1367	-	SFAM01.1	PPB	7/13/2023 17:01	SMPL
O3602-07	MH0FC9	1214	0.1812	-	SFAM01.1	PPB	7/13/2023 17:04	SMPL
O3602-08	MH0FD0	10393	1.7959	-	SFAM01.1	PPB	7/13/2023 17:06	SMPL
O3602-09	MH0FD1	2499	0.4072	-	SFAM01.1	PPB	7/13/2023 17:08	SMPL
O3602-10	MH0FD2	576	0.0689	-	SFAM01.1	PPB	7/13/2023 17:10	SMPL
O3602-11	MH0FD3	441	0.0452	-	SFAM01.1	PPB	7/13/2023 17:13	SMPL
O3602-12	MH0FD4	1673	0.2619	-	SFAM01.1	PPB	7/13/2023 17:15	SMPL
O3602-13	MH0FE5	3036	0.5017	-	SFAM01.1	PPB	7/13/2023 17:17	SMPL
O3602-14	MH0FE6	2755	0.4523	-	SFAM01.1	PPB	7/13/2023 17:19	SMPL
O3602-15	MH0FE7	3808	0.6375	-	SFAM01.1	PPB	7/13/2023 17:22	SMPL
O3602-16	MH0FE8	4113	0.6912	-	SFAM01.1	PPB	7/13/2023 17:24	SMPL
O3602-17	MH0FE9	1583	0.2461	-	SFAM01.1	PPB	7/13/2023 17:26	SMPL
O3602-18	MH0FF0	904	0.1266	-	SFAM01.1	PPB	7/13/2023 17:28	SMPL
O3602-19	MH0FF1	728	0.0957	-	SFAM01.1	PPB	7/13/2023 17:31	SMPL
CCV037	CCV037	28429	4.9688	-	SFAM01.1	PPB	7/13/2023 17:33	SMPL
CCB037	CCB037	92	-0.0162	-	SFAM01.1	PPB	7/13/2023 17:35	SMPL
O3602-20	MH0FF2	2861	0.4709	-	SFAM01.1	PPB	7/13/2023 17:38	SMPL
O3602-21	MH0FF3	1566	0.2431	-	SFAM01.1	PPB	7/13/2023 17:40	SMPL
O3602-22	MH0FF4	1811	0.2862	-	SFAM01.1	PPB	7/13/2023 17:42	SMPL
PB154187BL	PBS187	620	0.0767	-	SFAM01.1	PPB	7/13/2023 17:44	SMPL
O3603-01	MH0FD5	1860	0.2948	-	SFAM01.1	PPB	7/13/2023 17:47	SMPL
O3603-02	MH0FD6	2027	0.3242	-	SFAM01.1	PPB	7/13/2023 17:49	SMPL
O3603-03	MH0FD7	2004	0.3202	-	SFAM01.1	PPB	7/13/2023 17:51	SMPL
O3603-04	MH0FD8	2611	0.4269	-	SFAM01.1	PPB	7/13/2023 17:53	SMPL
O3603-05	MH0FD9	2960	0.4883	-	SFAM01.1	PPB	7/13/2023 17:56	SMPL
O3603-06	MH0FE0	1785	0.2816	-	SFAM01.1	PPB	7/13/2023 17:58	SMPL
O3603-07	MH0FE1	1500	0.2315	-	SFAM01.1	PPB	7/13/2023 18:00	SMPL
O3603-08	MH0FE2	2542	0.4148	-	SFAM01.1	PPB	7/13/2023 18:02	SMPL
O3603-09	MH0FE2D	2524	0.4116	-	SFAM01.1	PPB	7/13/2023 18:05	SMPL
O3603-10	MH0FE2S	16272	2.8302	-	SFAM01.1	PPB	7/13/2023 18:07	SMPL

Reviewed By:jaswal
On:7/14/2023 10:13:11 AM
Inst Id :CV1

LB126438

INSTRUMENT ID : CV1

O3603-11	MH0FE3	3204	0.5313	-	SFAM01.1	PPB	7/13/2023	18:09	SMPL
O3603-12	MH0FE4	2755	0.4523	-	SFAM01.1	PPB	7/13/2023	18:11	SMPL
O3603-13	MH0FF5	28907	5.0529	-	SFAM01.1	PPB	7/13/2023	18:14	SMPL
O3603-14	MH0FF6	707	0.092	-	SFAM01.1	PPB	7/13/2023	18:16	SMPL
O3603-15	MH0FF7	1063	0.1546	-	SFAM01.1	PPB	7/13/2023	18:18	SMPL
O3603-16	MH0FF8	1759	0.2771	-	SFAM01.1	PPB	7/13/2023	18:20	SMPL
CCV038	CCV038	28446	4.9718	-	SFAM01.1	PPB	7/13/2023	18:23	SMPL
CCB038	CCB038	84	-0.0176	-	SFAM01.1	PPB	7/13/2023	18:25	SMPL
O3603-17	MH0FF9	1849	0.2929	-	SFAM01.1	PPB	7/13/2023	18:27	SMPL
O3603-18	MH0FG0	1281	0.193	-	SFAM01.1	PPB	7/13/2023	18:30	SMPL
O3603-19	MH0FG1	1514	0.234	-	SFAM01.1	PPB	7/13/2023	18:32	SMPL
O3603-20	MH0FG2	1159	0.1715	-	SFAM01.1	PPB	7/13/2023	18:34	SMPL
O3603-21	MH0FG3	975	0.1391	-	SFAM01.1	PPB	7/13/2023	18:36	SMPL
O3603-22	MH0FG4	438	0.0447	-	SFAM01.1	PPB	7/13/2023	18:39	SMPL
CCV039	CCV039	28262	4.9394	-	SFAM01.1	PPB	7/13/2023	18:41	SMPL
CCB039	CCB039	103	-0.0143	-	SFAM01.1	PPB	7/13/2023	18:43	SMPL

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O329M

Test : e r cuycP

Prepbatch ID : B15, L5620

Sequence ID/Qc Batch ID: 715M2L360

Standard ID :
e B8, 4480e B8, 4440e B82M6M0e B82M630e B82M6L0e B82M6, 0e B82M620e B82M680e B82M660e B82M640e B82M490e B82M
450e B82M4M0e B82M4, 0e B82M420

Chemical ID :
e L3850e LL, 40e L4520e L4M90e , 92M0e , , M60e , , 440e , 2920e , 2940WM2920

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP75997	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP75999	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4459 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76282	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 1.00000ml of M5599 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP76283	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP76284	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 247.30000ml of W2606 + 0.20000ml of MP76282 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP76285	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 245.00000ml of W2606 + 2.50000ml of MP76282 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP76286	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 242.50000ml of W2606 + 5.00000ml of MP76282 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP76287	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 240.00000ml of W2606 + 7.50000ml of MP76282 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76288	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 237.50000ml of W2606 + 10.00000ml of MP76282 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP76289	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5599 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76290	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 2.50000ml of M5599 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76291	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5599 + 10.00000ml of MP76282 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76292	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5599 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP76295	07/13/2023	07/14/2023	Mohan Bera	None	None	Bin He 07/13/2023

FROM 150.00000ml of M5606 + 50.00000ml of M5609 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP76296	07/13/2023	07/14/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Bin He 07/13/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5606 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/11/2024	07/10/2023 / Al-Terek	01/13/2023 / Al-Terek	M5609

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4917 - 20
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

INORGANIC VENTURES
Refine your results. Redefine your industry.

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M5528-32
MB

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154186

SOP ID : M7471B-Mercury-17, MSFAM01.1-Mercury in Soil-2

SDG No : MH0FC5

Start Digest Date: 07/13/2023 **Time :** 10:15 **Temp :** 94 °C

Matrix : SOIL

End Digest Date: 07/13/2023 **Time :** 10:45 **Temp :** 93 °C

Pippete ID: HG A

Digestion tube ID: M5593

Balance ID : M SC-3

Block thermometer ID: HG-DIG#1

Filter paper ID : NA

Dig Technician Signature: MB

pH Strip ID : NA

Supervisor Signature: 12

Hood ID : #1

Block ID: **1.** HG HOT BLOCK#1 **2.** N/A

Temp : **1.** 94°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP76289
CCV	100mL	MP76291
Matrix Spike	1.0mL	MP76282
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP76295
KMnO4	15.0mL	MP75997
Hydroxylamine HCL	6.0mL	MP75999
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP76283
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP76284
2.5 ppb	S2.5	100mL	MP76285
5.0 ppb	S5.0	100mL	MP76286
7.5 ppb	S7.5	100mL	MP76287
10.0 ppb	S10.0	100mL	MP76288
ICV	ICV	100mL	MP76289
ICB	ICB	100mL	MP76290
CCV	CCV	100mL	MP76291
CCB	CCB	100mL	MP76292
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/13/23 @ 11:25	MB - DIG. LAB	MB - Metal Lab.
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154186

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
D3602-01	MH0FC5	0.53	100	NA	N/A	3-1
D3602-02	MH0FC6	0.50	100	NA	N/A	2
D3602-03	MH0FC7	0.53	100	NA	N/A	3
D3602-04	MH0FC7D	0.54	100	NA	N/A	4
D3602-05	MH0FC7S	0.58	100	NA	MP76282	5
D3602-06	MH0FC8	0.52	100	NA	N/A	6
D3602-07	MH0FC9	0.50	100	NA	N/A	7
D3602-08	MH0FD0	0.56	100	NA	N/A	8
D3602-09	MH0FD1	0.59	100	NA	N/A	9
D3602-10	MH0FD2	0.52	100	NA	N/A	10
D3602-11	MH0FD3	0.52	100	NA	N/A	11
D3602-12	MH0FD4	0.52	100	NA	N/A	12
D3602-13	MH0FE5	0.55	100	NA	N/A	13
D3602-14	MH0FE6	0.57	100	NA	N/A	14
D3602-15	MH0FE7	0.50	100	NA	N/A	15
D3602-16	MH0FE8	0.55	100	NA	N/A	16
D3602-17	MH0FE9	0.56	100	NA	N/A	17
D3602-18	MH0FF0	0.56	100	NA	N/A	18
D3602-19	MH0FF1	0.56	100	NA	N/A	19
D3602-20	MH0FF2	0.58	100	NA	N/A	20
D3602-21	MH0FF3	0.52	100	NA	N/A	21
D3602-22	MH0FF4	0.55	100	NA	N/A	22
PB154186BL	PBS186	0.50	100	NA	N/A	23

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126438

Review By	Mohan Bera	Review On	7/14/2023 10:11:50 AM
Supervise By	Sarabjit Jaswal	Supervise On	7/14/2023 10:13:11 AM

STD. NAME	STD REF.#
ICAL Standard	MP76283,MP76284,MP76285,MP76286,MP76287,MP76288
ICV Standard	MP76289
CCV Standard	MP76291
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76290,MP76292,MP76296

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/13/23 16:23		mohan	OK
2	S0.2	S01	CAL2	07/13/23 16:25		mohan	OK
3	S2.5	S02	CAL3	07/13/23 16:27		mohan	OK
4	S5	S03	CAL4	07/13/23 16:31		mohan	OK
5	S7.5	S04	CAL5	07/13/23 16:34		mohan	OK
6	S10	S05	CAL6	07/13/23 16:36		mohan	OK
7	ICV070	ICV070	ICV	07/13/23 16:39		mohan	OK
8	ICB070	ICB070	ICB	07/13/23 16:41		mohan	OK
9	CCV036	CCV036	CCV	07/13/23 16:43		mohan	OK
10	CCB036	CCB036	CCB	07/13/23 16:45		mohan	OK
11	PB154186BL	PBS186	MB	07/13/23 16:48		mohan	OK
12	O3602-01	MH0FC5	SAM	07/13/23 16:50		mohan	OK
13	O3602-02	MH0FC6	SAM	07/13/23 16:52		mohan	OK
14	O3602-03	MH0FC7	SAM	07/13/23 16:54		mohan	OK
15	O3602-04	MH0FC7D	DUP	07/13/23 16:57		mohan	OK
16	O3602-05	MH0FC7S	MS	07/13/23 16:59		mohan	OK
17	O3602-06	MH0FC8	SAM	07/13/23 17:01		mohan	OK
18	O3602-07	MH0FC9	SAM	07/13/23 17:04		mohan	OK
19	O3602-08	MH0FD0	SAM	07/13/23 17:06		mohan	OK
20	O3602-09	MH0FD1	SAM	07/13/23 17:08		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126438

Review By	Mohan Bera	Review On	7/14/2023 10:11:50 AM
Supervise By	Sarabjit Jaswal	Supervise On	7/14/2023 10:13:11 AM

STD. NAME	STD REF.#
ICAL Standard	MP76283,MP76284,MP76285,MP76286,MP76287,MP76288
ICV Standard	MP76289
CCV Standard	MP76291
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76290,MP76292,MP76296

21	O3602-10	MH0FD2	SAM	07/13/23 17:10		mohan	OK
22	O3602-11	MH0FD3	SAM	07/13/23 17:13		mohan	OK
23	O3602-12	MH0FD4	SAM	07/13/23 17:15		mohan	OK
24	O3602-13	MH0FE5	SAM	07/13/23 17:17		mohan	OK
25	O3602-14	MH0FE6	SAM	07/13/23 17:19		mohan	OK
26	O3602-15	MH0FE7	SAM	07/13/23 17:22		mohan	OK
27	O3602-16	MH0FE8	SAM	07/13/23 17:24		mohan	OK
28	O3602-17	MH0FE9	SAM	07/13/23 17:26		mohan	OK
29	O3602-18	MH0FF0	SAM	07/13/23 17:28		mohan	OK
30	O3602-19	MH0FF1	SAM	07/13/23 17:31		mohan	OK
31	CCV037	CCV037	CCV	07/13/23 17:33		mohan	OK
32	CCB037	CCB037	CCB	07/13/23 17:35		mohan	OK
33	O3602-20	MH0FF2	SAM	07/13/23 17:38		mohan	OK
34	O3602-21	MH0FF3	SAM	07/13/23 17:40		mohan	OK
35	O3602-22	MH0FF4	SAM	07/13/23 17:42		mohan	OK
36	PB154187BL	PBS187	MB	07/13/23 17:44		mohan	OK
37	O3603-01	MH0FD5	SAM	07/13/23 17:47		mohan	OK
38	O3603-02	MH0FD6	SAM	07/13/23 17:49		mohan	OK
39	O3603-03	MH0FD7	SAM	07/13/23 17:51		mohan	OK
40	O3603-04	MH0FD8	SAM	07/13/23 17:53		mohan	OK
41	O3603-05	MH0FD9	SAM	07/13/23 17:56		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126438

Review By	Mohan Bera	Review On	7/14/2023 10:11:50 AM
Supervise By	Sarabjit Jaswal	Supervise On	7/14/2023 10:13:11 AM

STD. NAME	STD REF.#
ICAL Standard	MP76283,MP76284,MP76285,MP76286,MP76287,MP76288
ICV Standard	MP76289
CCV Standard	MP76291
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76290,MP76292,MP76296

42	O3603-06	MH0FE0	SAM	07/13/23 17:58		mohan	OK
43	O3603-07	MH0FE1	SAM	07/13/23 18:00		mohan	OK
44	O3603-08	MH0FE2	SAM	07/13/23 18:02		mohan	OK
45	O3603-09	MH0FE2D	DUP	07/13/23 18:05		mohan	OK
46	O3603-10	MH0FE2S	MS	07/13/23 18:07		mohan	OK
47	O3603-11	MH0FE3	SAM	07/13/23 18:09		mohan	OK
48	O3603-12	MH0FE4	SAM	07/13/23 18:11		mohan	OK
49	O3603-13	MH0FF5	SAM	07/13/23 18:14		mohan	OK
50	O3603-14	MH0FF6	SAM	07/13/23 18:16		mohan	OK
51	O3603-15	MH0FF7	SAM	07/13/23 18:18		mohan	OK
52	O3603-16	MH0FF8	SAM	07/13/23 18:20		mohan	OK
53	CCV038	CCV038	CCV	07/13/23 18:23		mohan	OK
54	CCB038	CCB038	CCB	07/13/23 18:25		mohan	OK
55	O3603-17	MH0FF9	SAM	07/13/23 18:27		mohan	OK
56	O3603-18	MH0FG0	SAM	07/13/23 18:30		mohan	OK
57	O3603-19	MH0FG1	SAM	07/13/23 18:32		mohan	OK
58	O3603-20	MH0FG2	SAM	07/13/23 18:34		mohan	OK
59	O3603-21	MH0FG3	SAM	07/13/23 18:36		mohan	OK
60	O3603-22	MH0FG4	SAM	07/13/23 18:39		mohan	OK
61	CCV039	CCV039	CCV	07/13/23 18:41		mohan	OK
62	CCB039	CCB039	CCB	07/13/23 18:43		mohan	OK

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 46.60 LB
CAD: 6754017/SSF02422
DIMS: 24x14x13 IN
BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092
(908) 728-3140 REF: HIGHWAY 24
INV:
PO:
DEPT:

CL
6/27/23
13:30
17.8°C

FedEx Express

1 of 6
TRK# 0201 7802 8789 1515
MASTER
TE KBCA

TUE - 27 JUN 4:30P
** 2DAY **
07092
NJ-US EWR

Copy
Original Documents are included in CSF M1001F02

Signature

6/27/23
Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 44.10 LB
CAD: 6754017/SSFO2422
DIMS: 25x14x14 IN

BILL THIRD PARTY

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-8140 REF: HIGHWAY 24

INV:
PO:
DEPT:

6/27/23
13:30
20.1-C

FedEx Express

E

3 of 6

MPS# 0263 7802 8789 1537

Mstr# 7802 8789 1515 0201

TUE - 27 JUN 4:30P
** 2DAY **

TE KBCA

07092
NJ-US EWR

Copy

Original Documents are included in CSF MHQTOL

Signature

6/27/23

Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 24.85 LB
CAD: 6754017/SSF02422
DIMS: 26x14x14 IN

BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

[redacted] 728-3140

REF: HIGHWAY 24

INV:
PO:

DEPT:

cl.
6/27/23
13:30
21.2°C

FedEx Express

4 of 6

MPS# 0263 7802 8789 1548

Mstr# 7802 8789 1515

0201

TUE - 27 JUN 4:30P
** 2DAY **

TE KBCA

07092
NJ-US EWR

Copy

Original Documents are included in CSF MH05402

Signature

6/27/23

Date

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3602	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	7/12/2023 4:12:51 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3602-01	MH0FC5	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-02	MH0FC6	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-03	MH0FC7	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-04	MH0FC7D	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-05	MH0FC7S	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-06	MH0FC8	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-07	MH0FC9	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-08	MH0FD0	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-09	MH0FD1	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-10	MH0FD2	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

O3602-11	MH0FD3	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-12	MH0FD4	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-13	MH0FE5	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-14	MH0FE6	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-15	MH0FE7	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-16	MH0FE8	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-17	MH0FE9	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-18	MH0FF0	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-19	MH0FF1	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-20	MH0FF2	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-21	MH0FF3	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3602-22	MH0FF4	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3602_HgS **WorkList ID :** 171823 **Department :** Digestion **Date :** 07-13-2023 07:57:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3602-01	MH0FC5	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-02	MH0FC6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-03	MH0FC7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-04	MH0FC7D	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-05	MH0FC7S	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-06	MH0FC8	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-07	MH0FC9	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-08	MH0FD0	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-09	MH0FD1	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-10	MH0FD2	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-11	MH0FD3	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-12	MH0FD4	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-13	MH0FE5	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3602-14	MH0FE6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3602-15	MH0FE7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3602-16	MH0FE8	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3602-17	MH0FE9	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3602-18	MH0FF0	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3602-19	MH0FF1	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3602-20	MH0FF2	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3602-21	MH0FF3	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG

101

Date/Time 7/13/23 @ 9:45

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 7/13/23 @ 10:40

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3602_HgS **WorkList ID :** 171823 **Department :** Digestion **Date :** 07-13-2023 07:57:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3602-22	MH0FF4	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG

102

Date/Time 7/13/23 @ 9:45

Raw Sample Received by: MB · DLG · LWS

Raw Sample Relinquished by: [illegible]

Date/Time 7/13/23 @ 10:40

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: MB · DLG · LWS

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0FD5

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0FD5	O3603-01			X	
MH0FD6	O3603-02			X	
MH0FD7	O3603-03			X	
MH0FD8	O3603-04			X	
MH0FD9	O3603-05			X	
MH0FE0	O3603-06			X	
MH0FE1	O3603-07			X	
MH0FE2	O3603-08			X	
MH0FE2D	O3603-09			X	
MH0FE2S	O3603-10			X	
MH0FE3	O3603-11			X	
MH0FE4	O3603-12			X	
MH0FF5	O3603-13			X	
MH0FF6	O3603-14			X	
MH0FF7	O3603-15			X	
MH0FF8	O3603-16			X	
MH0FF9	O3603-17			X	
MH0FG0	O3603-18			X	
MH0FG1	O3603-19			X	
MH0FG2	O3603-20			X	
MH0FG3	O3603-21			X	
MH0FG4	O3603-22			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name:

Date: 7/17/2023 Title:

APPROVED

By Nimisha Pandya QA/QC Supervisor at 1:58 pm, Jul 17, 2023

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
F14	HWY-SS05-1-6HG	MH0FD5	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1049 (1)	05	06/13/2023 12:30	1
F15	HWY-SS06-0-1HG	MH0FD6	Soil/ Davis_Brandi	Composite	Hg(21)	1052 (1)	06A	06/12/2023 14:57	1
F16	HWY-SS06-1-6HG	MH0FD7	Soil/ Davis_Brandi	Composite	Hg(21)	1055 (1)	06A	06/12/2023 14:57	1
F17	HWY-SS07-0-1HG	MH0FD8	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1058 (1)	07	06/13/2023 12:10	1
F18	HWY-SS07-1-6HG	MH0FD9	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1061 (1)	07	06/13/2023 12:10	2
F21	HWY-SS10-0-1HG	MH0FE0	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1070 (1)	10	06/13/2023 09:15	2
F22	HWY-SS10-1-6HG	MH0FE1	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1073 (1)	10	06/13/2023 09:15	2
F23	HWY-SS11-0-1HG	MH0FE2	Soil/ Davis_Brandi	Composite	Hg(21)	1076 (1)	11	06/13/2023 10:00	4 QC ✓ Qe 2
F24	HWY-SS11-1-6HG	MH0FE3	Soil/ Davis_Brandi	Composite	Hg(21)	1079 (1)	11	06/13/2023 10:00	3 QC 2
F25	HWY-SS12-0-1HG	MH0FE4	Soil/ Davis_Brandi	Composite	Hg(21)	1082 (1)	12	06/12/2023 10:31	2

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700		6/27/23	17.8°C, 20.1°C, 21.2°C
				13:30	IDGUM #2
					NO Temp blank
					Custody Seal Intact

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
F34	HWY-SS16-1-6HG	MH0FF5	Soil/ Davis_Brandi	Composite	Hg(21)	1109 (1)	16	06/13/2023 09:00	3
F35	HWY-SS17-0-1HG	MH0FF6	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1112 (1)	17	06/13/2023 11:40	3
F36	HWY-SS17-1-6HG	MH0FF7	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1115 (1)	17	06/13/2023 11:40	3
F37	HWY-SS18-0-1HG	MH0FF8	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1118 (1)	18	06/12/2023 11:18	3
F38	HWY-SS18-1-6HG	MH0FF9	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1121 (1)	18	06/12/2023 11:18	3
F39	HWY-SS19-0-1HG	MH0FG0	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1124 (1)	19	06/12/2023 11:55	3
F40	HWY-SS19-1-6HG	MH0FG1	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1127 (1)	19	06/12/2023 11:55	3
F74	HWY-SS20-0-1HG	MH0FG2	Soil/ LaFemina_Matt	Composite	Hg(21)	1200 (1)	20	06/12/2023 11:23	3
F76	HWY-SS20-1-6HG	MH0FG3	Soil/ LaFemina_Matt	Composite	Hg(21)	1204 (1)	20	06/12/2023 11:27	3
F75	HWY-SS21-0-1HG	MH0FG4	Soil/ LaFemina_Matt	Composite	Hg(21)	1202 (1)	21	06/12/2023 09:52	3

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700	[signature]	6/27/23	17.8°, 20.1°, 21.2°
				13:30	IR GUN #2
					No Temp Blank
					Custody Seal Intact

3

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 3
Received By (Print Name) Cassandra Rose		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FD5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891515 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	17.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	6/27/23 04 ~~07/12/2023~~ 7/12
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FD5	N/A	1049	O3603-01	Intact
2	MH0FD6	N/A	1052	O3603-02	Intact
3	MH0FD7	N/A	1055	O3603-03	Intact
4	MH0FD8	N/A	1058	O3603-04	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 2 of 3
Received By (Print Name) Cassandra Rein		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FD5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891537 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	20.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	~~07/12/2023~~ 6/27/23
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FD9	N/A	1061	O3603-05	Intact
2	MH0FE0	N/A	1070	O3603-06	Intact
3	MH0FE1	N/A	1073	O3603-07	Intact
4	MH0FE2	N/A	1076	O3603-08	Intact
5	MH0FE2D	N/A	1076	O3603-09	Intact
6	MH0FE2S	N/A	1076	O3603-10	Intact
7	MH0FE3	N/A	1079	O3603-11	Intact
8	MH0FE4	N/A	1082	O3603-12	Intact
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 3 of 3
Received By (Print Name) Cassanova Pena		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FD5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891548 3
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	21.2 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	6/27/23 ~~07/12/2023~~ 7/12
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FF5	N/A	1109	O3603-13	Intact
2	MH0FF6	N/A	1112	O3603-14	Intact
3	MH0FF7	N/A	1115	O3603-15	Intact
4	MH0FF8	N/A	1118	O3603-16	Intact
5	MH0FF9	N/A	1121	O3603-17	Intact
6	MH0FG0	N/A	1124	O3603-18	Intact
7	MH0FG1	N/A	1127	O3603-19	Intact
8	MH0FG2	N/A	1200	O3603-20	Intact
9	MH0FG3	N/A	1204	O3603-21	Intact
10	MH0FG4	N/A	1202	O3603-22	Intact
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20100DD**		
CASE NO.	**50856**	SDG NO.	**MH0F15**
MA NO.		SOW NO.	**SFAM0D.D**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	6	✓	
4. CSF Inventory Sheet (DC-2)	7	9	✓	
5. SDG Narrative	10	12	✓	
6. Communication Logs	13	37	✓	
7. Percent Solids Log	38	40	✓	
Analysis Forms and 1ata (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other 1ata				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and 1ata (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other 1ata				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and 1ata (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	41	60	✓	
27. Instrument raw data by instrument in analysis order	61	63	✓	
Other 1ata				
28. Standard and Reagent Preparation Logs	64	93	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	94	95	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	96	98	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and 1ata (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other 1ata				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 3)	99	101	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	102	103	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	104	105	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)	N. N. Pandya (Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	7/17/2023 (Date)
Audited by: (EPA)	(Signature)	(Print Name & Title)	(Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0FD5
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3603

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Hg.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**

Cooler: 17.8^{o}C, 20.1^{o}C, & 21.2^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.

Issue 4: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 4: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with ICP-MS analysis for the dried soil samples and Hg analysis for the wet soil samples

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0FD5:

If C = 0.2948 ppb
Vf = 100 mL
W = 0.53 g
S = 0.867(86.7/100)
DF = 1

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

$$\text{Concentration (mg/kg)} = 0.2948 \times \frac{100}{0.53 \times 0.867} \times 1 / 1000$$

$$= 0.064155 \text{ mg/kg}$$

$$= 0.064 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Blank analyses did not indicate any presence of contamination. Spike sample did meet requirements. Duplicate sample did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya

Name: Nimisha Pandya

Date 7/17/2023

Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 13, 2023 3:14 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please the updated resolution for Issue 1. A resolution for Issue 3 will be provided once it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with ICP-MS analysis for the dried soil samples and Hg analysis for the wet soil samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Sample MH0F82 for ICP-MS analysis is not listed on the revised COC. The laboratory is requesting an updated COC.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
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Samantha.Sosko@gdit.com
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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, July 12, 2023 3:51 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, the dried soils samples require ICP-MS and the wet soils require Hg as brought to our attention by Chemtech.

Matt, can you revise the COC for the missing sample, sign and send back to Samantha.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:07 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Can you please confirm if dried/prepped soil samples and wet soil samples should both be analyzed for ICP-MS and Hg, as the attached COC lists soil samples MH0F02 – MH0F88 for ICP-MS analysis and soil samples MH0FC4 – MH0FK1 for Hg analysis.

Also, please advise on the additional issue from CHM.

Issue 3: Sample MH0F82 for ICP-MS analysis is not listed on the revised COC. The laboratory is requesting an updated COC.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 2:08 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Also, sample MH0F82 is missing in new updated COC so please provide. This is for ICP-MS analysis.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 1:51 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; 'deepak@CHEMTECH.NET' <deepak@CHEMTECH.NET>
Cc: 'Goodrich.Donald@epa.gov' <Goodrich.Donald@epa.gov>; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

Hi Samantha,

Can you please confirm that the dried/prepped samples need to be analyzed for ICP-MS and Wet samples need to be analyzed for Hg?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152

General Number: (908)789-8900
Fax: (908)789-8922

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---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett' <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

Tetra Tech | *Leading with Science®*
1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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Think Green - Not every email needs to be printed

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356

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www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM

To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
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www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

Tetra Tech | *Leading with Science®*
1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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Think Green - Not every email needs to be printed

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,

Samantha Sosko

Environmental Analyst Associate
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Under contract to the EPA

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/14/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 14:15
In Date: 07/13/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:47
Out Date: 07/14/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126422

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3603-01	MH0FD5	1	1.15	8.79	9.94	8.77	86.7	
O3603-02	MH0FD6	2	1.12	8.75	9.87	8.11	79.9	
O3603-03	MH0FD7	3	1.13	8.68	9.81	7.99	79.0	
O3603-04	MH0FD8	4	1.16	8.66	9.82	7.66	75.1	
O3603-05	MH0FD9	5	1.15	8.42	9.57	7.79	78.9	
O3603-06	MH0FE0	6	1.17	8.57	9.74	6.3	59.9	
O3603-07	MH0FE1	7	1.16	8.78	9.94	7.35	70.5	
O3603-08	MH0FE2	8	1.16	8.50	9.66	7.25	71.6	
O3603-09	MH0FE2D	9	1.16	8.50	9.66	7.25	71.6	
O3603-10	MH0FE2S	10	1.16	8.50	9.66	7.25	71.6	
O3603-11	MH0FE3	11	1.19	8.53	9.72	7.52	74.2	
O3603-12	MH0FE4	12	1.15	8.82	9.97	8.18	79.7	
O3603-13	MH0FF5	13	1.12	8.39	9.51	8.7	90.3	
O3603-14	MH0FF6	14	1.19	8.46	9.65	8.57	87.2	
O3603-15	MH0FF7	15	1.19	8.80	9.99	9.4	93.3	
O3603-16	MH0FF8	16	1.18	8.38	9.56	6.75	66.5	
O3603-17	MH0FF9	17	1.15	8.82	9.97	8.64	84.9	
O3603-18	MH0FG0	18	1.18	8.76	9.94	6.82	64.4	
O3603-19	MH0FG1	19	1.19	8.61	9.8	8.2	81.4	
O3603-20	MH0FG2	20	1.18	8.33	9.51	6.74	66.7	
O3603-21	MH0FG3	21	1.15	8.83	9.98	8.73	85.8	
O3603-22	MH0FG4	22	1.12	8.83	9.95	8.09	78.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB326422

WorkList Name : %1-O3603 **WorkList ID :** 171842 **Department :** Wet-Chemistry **Date :** 07-13-2023 09:35:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3603-01	MH0FD5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-02	MH0FD6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3603-03	MH0FD7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3603-04	MH0FD8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-05	MH0FD9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-06	MH0FE0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-07	MH0FE1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-08	MH0FE2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-09	MH0FE2D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-10	MH0FE2S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-11	MH0FE3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-12	MH0FE4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-13	MH0FF5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3603-14	MH0FF6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-15	MH0FF7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-16	MH0FF8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3603-17	MH0FF9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3603-18	MH0FG0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3603-19	MH0FG1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3603-20	MH0FG2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3603-21	MH0FG3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO

Date/Time 07-13-23 13:00

Raw Sample Received by: JD (COC)

Raw Sample Relinquished by: JD (SM)

Date/Time 07-13-23 14:20

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: JD (COC)

WORKLIST(Hardcopy Internal Chain)

VB126422

WorkList Name : %1-O3603 **WorkList ID :** 171842 **Department :** Wet-Chemistry **Date :** 07-13-2023 09:35:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3603-22	MH0FG4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO

40

Date/Time 07-13-23 13:00

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: JD (SM)

Date/Time 07-13-23 14:20

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: JD (WC)

EPA SAMPLE NO.

MH0FD5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-01

% Solids: 86.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.064	J	07/13/2023	1747

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-02

% Solids: 79.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.069	J	07/13/2023	1749

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Cons5lting Gro5p Contract: 6xHERH80D0011

Lab Code: CHM Case No.: u0xu6 MA No. : SDG No.: MH0FDu

Matri7: SOIL Lab Sample ID: O3603-03

% Solids: 29 Date Received: 06/82/8083

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
2439-92-6	Merc5ry	0.0x1	J	02/13/8083	12u1

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-04

% Solids: 75.1 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.098	J	07/13/2023	1753

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FD9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-05

% Solids: 78.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J	07/13/2023	1756

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 65HERH80D0011

Lab Code: CHM Case No.: 20526 MA No. : SDG No.: MH0FD2

Matrix: SOIL Lab Sample ID: O3603-06

% Solids: 29.9 Date Received: 06/87/8083

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.058	J	07/13/8083	1725

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 65HERH70D0011

Lab Code: CHM Case No.: 80586 MA No. : SDG No.: MH0FD8

Matrix: SOIL Lab Sample ID: O3603-02

% Solids: 20.8 Date Received: 06/72/7073

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
2439-92-6	Mercury	0.067	J	02/13/7073	1500

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-08

% Solids: 71.6 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J	07/13/2023	1802

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-11

% Solids: 74.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12		07/13/2023	1809

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FE4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-12

% Solids: 79.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J	07/13/2023	1811

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-13

% Solids: 90.3 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	1.1		07/13/2023	1814

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-14

% Solids: 87.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	U	07/13/2023	1816

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF7

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-15

% Solids: 93.3 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.031	J	07/13/2023	1818

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 62HERH80D0011

Lab Code: CHM Case No.: 50256 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-16

% Solids: 66.5 Date Received: 06/87/8083

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.079	J	07/13/8083	1280

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FF9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-17

% Solids: 84.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.065	J	07/13/2023	1827

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-18

% Solids: 64.4 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.055	J	07/13/2023	1830

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-19

% Solids: 81.4 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.057	J	07/13/2023	1832

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FD5

Matrix: SOIL Lab Sample ID: O3603-20

% Solids: 66.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.044	J	07/13/2023	1834

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Cons5lting Gro5p Contract: 67HERH20D0011

Lab Code: CHM Case No.: u07u6 MA No. : SDG No.: MH0FDu

Matri8: SOIL Lab Sample ID: O3603-21

% Solids: 7u.7 Date Received: 06/2x/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
x439-9x-6	Merc5ry	0.031	J	0x/13/2023	1736

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Cons5lting Gro5p Contract: 6uHERH20D0011

Lab Code: CHM Case No.: (0u(6 MA No. : SDG No.: MH0FD(

MatriU: SOIL Lab Sample ID: O3603-22

% Solids: 7u.x Date Received: 06/27/2023

Analytical Method: Hg

Concentration µnits ,wg/L² mg/L² mg/kg dry)eight² wg² or wg/cmQz: mg/kg

CAS No.	Analyte	Concentration	4	Date Analy9ed	Time Analy9ed
783x-x7-6	Merc5ry	0.11	µ	07/13/2023	1u3x

NOTE: Hardness ,totalz is reported in mg/L

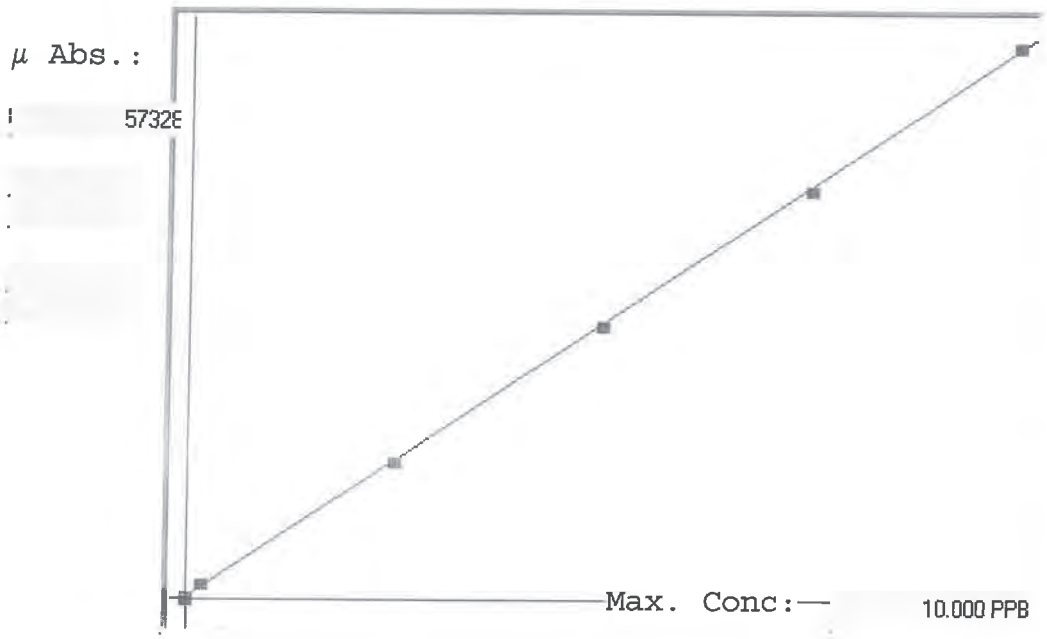
Comments:

Reviewed By:jaswal
On:7/14/2023 10:13:11 AM
Inst Id :CV1

LB126438

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.7592e-004 slope

C= -3.2382e-002 y-intercept

Rho= 0.9999469

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	G/D
0.00	0.000	-0.011	-0.011	122	0.000	122					1
0.05	0.050					302	0				-24
0.20	0.200	0.248	0.048	1596	0.0 %	1596					0
2.50	2.500	2.491	-0.009	14344	0.0 %	14344					-1
5.00	5.000	4.966	-0.034	28411	0.0 %	28411					-1
7.50	7.500	7.453	-0.047	42552	0.0 %	42552					1
10.0	10.000	10.053	0.053	57328	0.0 %	57328					

Reviewed By:jaswal
On:7/14/2023 10:13:11 AM
Inst Id :CV1

LB126438

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
0	S0	122	-	0	SFAM01.1	PPB	7/13/2023 16:23	Std
0.2	S01	1596	-	0.2	SFAM01.1	PPB	7/13/2023 16:25	Std
2.5	S02	14344	-	2.5	SFAM01.1	PPB	7/13/2023 16:27	Std
5	S03	28411	-	5	SFAM01.1	PPB	7/13/2023 16:31	Std
7.5	S04	42552	-	7.5	SFAM01.1	PPB	7/13/2023 16:34	Std
10	S05	57328	-	10	SFAM01.1	PPB	7/13/2023 16:36	Std
ICV070	ICV070	22248	3.8814	-	SFAM01.1	PPB	7/13/2023 16:39	SMPL
ICB070	ICB070	90	-0.0165	-	SFAM01.1	PPB	7/13/2023 16:41	SMPL
CCV036	CCV036	28342	4.9535	-	SFAM01.1	PPB	7/13/2023 16:43	SMPL
CCB036	CCB036	96	-0.0155	-	SFAM01.1	PPB	7/13/2023 16:45	SMPL
PB154186BL	PBS186	115	-0.0122	-	SFAM01.1	PPB	7/13/2023 16:48	SMPL
O3602-01	MH0FC5	2453	0.3991	-	SFAM01.1	PPB	7/13/2023 16:50	SMPL
O3602-02	MH0FC6	935	0.1321	-	SFAM01.1	PPB	7/13/2023 16:52	SMPL
O3602-03	MH0FC7	1209	0.1803	-	SFAM01.1	PPB	7/13/2023 16:54	SMPL
O3602-04	MH0FC7D	1280	0.1928	-	SFAM01.1	PPB	7/13/2023 16:57	SMPL
O3602-05	MH0FC7S	14552	2.5276	-	SFAM01.1	PPB	7/13/2023 16:59	SMPL
O3602-06	MH0FC8	961	0.1367	-	SFAM01.1	PPB	7/13/2023 17:01	SMPL
O3602-07	MH0FC9	1214	0.1812	-	SFAM01.1	PPB	7/13/2023 17:04	SMPL
O3602-08	MH0FD0	10393	1.7959	-	SFAM01.1	PPB	7/13/2023 17:06	SMPL
O3602-09	MH0FD1	2499	0.4072	-	SFAM01.1	PPB	7/13/2023 17:08	SMPL
O3602-10	MH0FD2	576	0.0689	-	SFAM01.1	PPB	7/13/2023 17:10	SMPL
O3602-11	MH0FD3	441	0.0452	-	SFAM01.1	PPB	7/13/2023 17:13	SMPL
O3602-12	MH0FD4	1673	0.2619	-	SFAM01.1	PPB	7/13/2023 17:15	SMPL
O3602-13	MH0FE5	3036	0.5017	-	SFAM01.1	PPB	7/13/2023 17:17	SMPL
O3602-14	MH0FE6	2755	0.4523	-	SFAM01.1	PPB	7/13/2023 17:19	SMPL
O3602-15	MH0FE7	3808	0.6375	-	SFAM01.1	PPB	7/13/2023 17:22	SMPL
O3602-16	MH0FE8	4113	0.6912	-	SFAM01.1	PPB	7/13/2023 17:24	SMPL
O3602-17	MH0FE9	1583	0.2461	-	SFAM01.1	PPB	7/13/2023 17:26	SMPL
O3602-18	MH0FF0	904	0.1266	-	SFAM01.1	PPB	7/13/2023 17:28	SMPL
O3602-19	MH0FF1	728	0.0957	-	SFAM01.1	PPB	7/13/2023 17:31	SMPL
CCV037	CCV037	28429	4.9688	-	SFAM01.1	PPB	7/13/2023 17:33	SMPL
CCB037	CCB037	92	-0.0162	-	SFAM01.1	PPB	7/13/2023 17:35	SMPL
O3602-20	MH0FF2	2861	0.4709	-	SFAM01.1	PPB	7/13/2023 17:38	SMPL
O3602-21	MH0FF3	1566	0.2431	-	SFAM01.1	PPB	7/13/2023 17:40	SMPL
O3602-22	MH0FF4	1811	0.2862	-	SFAM01.1	PPB	7/13/2023 17:42	SMPL
PB154187BL	PBS187	620	0.0767	-	SFAM01.1	PPB	7/13/2023 17:44	SMPL
O3603-01	MH0FD5	1860	0.2948	-	SFAM01.1	PPB	7/13/2023 17:47	SMPL
O3603-02	MH0FD6	2027	0.3242	-	SFAM01.1	PPB	7/13/2023 17:49	SMPL
O3603-03	MH0FD7	2004	0.3202	-	SFAM01.1	PPB	7/13/2023 17:51	SMPL
O3603-04	MH0FD8	2611	0.4269	-	SFAM01.1	PPB	7/13/2023 17:53	SMPL
O3603-05	MH0FD9	2960	0.4883	-	SFAM01.1	PPB	7/13/2023 17:56	SMPL
O3603-06	MH0FE0	1785	0.2816	-	SFAM01.1	PPB	7/13/2023 17:58	SMPL
O3603-07	MH0FE1	1500	0.2315	-	SFAM01.1	PPB	7/13/2023 18:00	SMPL
O3603-08	MH0FE2	2542	0.4148	-	SFAM01.1	PPB	7/13/2023 18:02	SMPL
O3603-09	MH0FE2D	2524	0.4116	-	SFAM01.1	PPB	7/13/2023 18:05	SMPL
O3603-10	MH0FE2S	16272	2.8302	-	SFAM01.1	PPB	7/13/2023 18:07	SMPL

Reviewed By:jaswal
On:7/14/2023 10:13:11 AM
Inst Id :CV1

LB126438

INSTRUMENT ID : CV1

O3603-11	MH0FE3	3204	0.5313	-	SFAM01.1	PPB	7/13/2023	18:09	SMPL
O3603-12	MH0FE4	2755	0.4523	-	SFAM01.1	PPB	7/13/2023	18:11	SMPL
O3603-13	MH0FF5	28907	5.0529	-	SFAM01.1	PPB	7/13/2023	18:14	SMPL
O3603-14	MH0FF6	707	0.092	-	SFAM01.1	PPB	7/13/2023	18:16	SMPL
O3603-15	MH0FF7	1063	0.1546	-	SFAM01.1	PPB	7/13/2023	18:18	SMPL
O3603-16	MH0FF8	1759	0.2771	-	SFAM01.1	PPB	7/13/2023	18:20	SMPL
CCV038	CCV038	28446	4.9718	-	SFAM01.1	PPB	7/13/2023	18:23	SMPL
CCB038	CCB038	84	-0.0176	-	SFAM01.1	PPB	7/13/2023	18:25	SMPL
O3603-17	MH0FF9	1849	0.2929	-	SFAM01.1	PPB	7/13/2023	18:27	SMPL
O3603-18	MH0FG0	1281	0.193	-	SFAM01.1	PPB	7/13/2023	18:30	SMPL
O3603-19	MH0FG1	1514	0.234	-	SFAM01.1	PPB	7/13/2023	18:32	SMPL
O3603-20	MH0FG2	1159	0.1715	-	SFAM01.1	PPB	7/13/2023	18:34	SMPL
O3603-21	MH0FG3	975	0.1391	-	SFAM01.1	PPB	7/13/2023	18:36	SMPL
O3603-22	MH0FG4	438	0.0447	-	SFAM01.1	PPB	7/13/2023	18:39	SMPL
CCV039	CCV039	28262	4.9394	-	SFAM01.1	PPB	7/13/2023	18:41	SMPL
CCB039	CCB039	103	-0.0143	-	SFAM01.1	PPB	7/13/2023	18:43	SMPL

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O3293

Test : Mercury

Prepbatch ID : PB15, 1L60

Sequence ID/Qc Batch ID: 7B182, 3L0

Standard ID :
MP654460MP654440MP628L80MP628L30MP628L, 0MP628L50MP628L20MP628L60MP628LL0MP628L40MP628490MP628
410MP628480MP628450MP628420

Chemical ID :
M, 3610M, , 540M, 4120M, 4890M59280M558L0M55440M52920M52940W82920

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP75997	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP75999	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4459 = Final Quantity: 2000.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76282	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 1.00000ml of M5599 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP76283	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP76284	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 247.30000ml of W2606 + 0.20000ml of MP76282 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP76285	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 245.00000ml of W2606 + 2.50000ml of MP76282 = Final Quantity: 250.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP76286	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 242.50000ml of W2606 + 5.00000ml of MP76282 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP76287	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 240.00000ml of W2606 + 7.50000ml of MP76282 = Final Quantity: 250.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76288	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/13/2023

FROM 2.50000ml of M5599 + 237.50000ml of W2606 + 10.00000ml of MP76282 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP76289	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5599 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76290	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 2.50000ml of M5599 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76291	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5599 + 10.00000ml of MP76282 = Final Quantity: 500.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76292	07/13/2023	07/14/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Bin He 07/13/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5599 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP76295	07/13/2023	07/14/2023	Mohan Bera	None	None	Bin He 07/13/2023

FROM 150.00000ml of M5606 + 50.00000ml of M5609 = Final Quantity: 200.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP76296	07/13/2023	07/14/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Bin He 07/13/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5606 = Final Quantity: 500.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/11/2024	07/10/2023 / Al-Terek	01/13/2023 / Al-Terek	M5609

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4917 - 20
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M5528-32
MB

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154187

SOP ID : M7471B-Mercury-17, MSFAM01.1-Mercury in Soil-2

SDG No : MH0FD5

Start Digest Date: 07/13/2023 **Time :** 10:15 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 07/13/2023 **Time :** 10:45 **Temp :** 94 °C

Pippete ID: HG A

Digestion tube ID: M5593

Balance ID : M SC-3

Block thermometer ID: HG-DIG#2

Filter paper ID : NA

Dig Technician Signature: AB

pH Strip ID : NA

Supervisor Signature: 17

Hood ID : #1

Block ID: **1.** HG HOT BLOCK#2 **2.** N/A

Temp : **1.** 95°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP76289
CCV	100mL	MP76291
Matrix Spike	1.0mL	MP76282
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP76295
KMnO4	15.0mL	MP75997
Hydroxylamine HCL	6.0mL	MP75999
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP76283
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP76284
2.5 ppb	S2.5	100mL	MP76285
5.0 ppb	S5.0	100mL	MP76286
7.5 ppb	S7.5	100mL	MP76287
10.0 ppb	S10.0	100mL	MP76288
ICV	ICV	100mL	MP76289
ICB	ICB	100mL	MP76290
CCV	CCV	100mL	MP76291
CCB	CCB	100mL	MP76292
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/13/23 @ 11:45	AB - Dig. Lab	AB - Metal Lab
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154187

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
O3603-01	MH0FD5	0.53	100	NA	N/A	2-1
O3603-02	MH0FD6	0.59	100	NA	N/A	2
O3603-03	MH0FD7	0.50	100	NA	N/A	3
O3603-04	MH0FD8	0.58	100	NA	N/A	4
O3603-05	MH0FD9	0.55	100	NA	N/A	5
O3603-06	MH0FE0	0.57	100	NA	N/A	6
O3603-07	MH0FE1	0.53	100	NA	N/A	7
O3603-08	MH0FE2	0.53	100	NA	N/A	8
O3603-09	MH0FE2D	0.54	100	NA	N/A	9
O3603-10	MH0FE2S	0.52	100	NA	MP76282	10
O3603-11	MH0FE3	0.60	100	NA	N/A	11
O3603-12	MH0FE4	0.54	100	NA	N/A	12
O3603-13	MH0FF5	0.51	100	NA	N/A	13
O3603-14	MH0FF6	0.52	100	NA	N/A	14
O3603-15	MH0FF7	0.54	100	NA	N/A	15
O3603-16	MH0FF8	0.53	100	NA	N/A	16
O3603-17	MH0FF9	0.53	100	NA	N/A	17
O3603-18	MH0FG0	0.54	100	NA	N/A	18
O3603-19	MH0FG1	0.50	100	NA	N/A	19
O3603-20	MH0FG2	0.58	100	NA	N/A	20
O3603-21	MH0FG3	0.53	100	NA	N/A	21
O3603-22	MH0FG4	0.56	100	NA	N/A	22
PB154187BL	PBS187	0.50	100	NA	N/A	23

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126438

Review By	Mohan Bera	Review On	7/14/2023 10:11:50 AM
Supervise By	Sarabjit Jaswal	Supervise On	7/14/2023 10:13:11 AM

STD. NAME	STD REF.#
ICAL Standard	MP76283,MP76284,MP76285,MP76286,MP76287,MP76288
ICV Standard	MP76289
CCV Standard	MP76291
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76290,MP76292,MP76296

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/13/23 16:23		mohan	OK
2	S0.2	S01	CAL2	07/13/23 16:25		mohan	OK
3	S2.5	S02	CAL3	07/13/23 16:27		mohan	OK
4	S5	S03	CAL4	07/13/23 16:31		mohan	OK
5	S7.5	S04	CAL5	07/13/23 16:34		mohan	OK
6	S10	S05	CAL6	07/13/23 16:36		mohan	OK
7	ICV070	ICV070	ICV	07/13/23 16:39		mohan	OK
8	ICB070	ICB070	ICB	07/13/23 16:41		mohan	OK
9	CCV036	CCV036	CCV	07/13/23 16:43		mohan	OK
10	CCB036	CCB036	CCB	07/13/23 16:45		mohan	OK
11	PB154186BL	PBS186	MB	07/13/23 16:48		mohan	OK
12	O3602-01	MH0FC5	SAM	07/13/23 16:50		mohan	OK
13	O3602-02	MH0FC6	SAM	07/13/23 16:52		mohan	OK
14	O3602-03	MH0FC7	SAM	07/13/23 16:54		mohan	OK
15	O3602-04	MH0FC7D	DUP	07/13/23 16:57		mohan	OK
16	O3602-05	MH0FC7S	MS	07/13/23 16:59		mohan	OK
17	O3602-06	MH0FC8	SAM	07/13/23 17:01		mohan	OK
18	O3602-07	MH0FC9	SAM	07/13/23 17:04		mohan	OK
19	O3602-08	MH0FD0	SAM	07/13/23 17:06		mohan	OK
20	O3602-09	MH0FD1	SAM	07/13/23 17:08		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126438

Review By	Mohan Bera	Review On	7/14/2023 10:11:50 AM
Supervise By	Sarabjit Jaswal	Supervise On	7/14/2023 10:13:11 AM

STD. NAME	STD REF.#
ICAL Standard	MP76283,MP76284,MP76285,MP76286,MP76287,MP76288
ICV Standard	MP76289
CCV Standard	MP76291
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76290,MP76292,MP76296

21	O3602-10	MH0FD2	SAM	07/13/23 17:10		mohan	OK
22	O3602-11	MH0FD3	SAM	07/13/23 17:13		mohan	OK
23	O3602-12	MH0FD4	SAM	07/13/23 17:15		mohan	OK
24	O3602-13	MH0FE5	SAM	07/13/23 17:17		mohan	OK
25	O3602-14	MH0FE6	SAM	07/13/23 17:19		mohan	OK
26	O3602-15	MH0FE7	SAM	07/13/23 17:22		mohan	OK
27	O3602-16	MH0FE8	SAM	07/13/23 17:24		mohan	OK
28	O3602-17	MH0FE9	SAM	07/13/23 17:26		mohan	OK
29	O3602-18	MH0FF0	SAM	07/13/23 17:28		mohan	OK
30	O3602-19	MH0FF1	SAM	07/13/23 17:31		mohan	OK
31	CCV037	CCV037	CCV	07/13/23 17:33		mohan	OK
32	CCB037	CCB037	CCB	07/13/23 17:35		mohan	OK
33	O3602-20	MH0FF2	SAM	07/13/23 17:38		mohan	OK
34	O3602-21	MH0FF3	SAM	07/13/23 17:40		mohan	OK
35	O3602-22	MH0FF4	SAM	07/13/23 17:42		mohan	OK
36	PB154187BL	PBS187	MB	07/13/23 17:44		mohan	OK
37	O3603-01	MH0FD5	SAM	07/13/23 17:47		mohan	OK
38	O3603-02	MH0FD6	SAM	07/13/23 17:49		mohan	OK
39	O3603-03	MH0FD7	SAM	07/13/23 17:51		mohan	OK
40	O3603-04	MH0FD8	SAM	07/13/23 17:53		mohan	OK
41	O3603-05	MH0FD9	SAM	07/13/23 17:56		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126438

Review By	Mohan Bera	Review On	7/14/2023 10:11:50 AM
Supervise By	Sarabjit Jaswal	Supervise On	7/14/2023 10:13:11 AM

STD. NAME	STD REF.#
ICAL Standard	MP76283,MP76284,MP76285,MP76286,MP76287,MP76288
ICV Standard	MP76289
CCV Standard	MP76291
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76290,MP76292,MP76296

42	O3603-06	MH0FE0	SAM	07/13/23 17:58		mohan	OK
43	O3603-07	MH0FE1	SAM	07/13/23 18:00		mohan	OK
44	O3603-08	MH0FE2	SAM	07/13/23 18:02		mohan	OK
45	O3603-09	MH0FE2D	DUP	07/13/23 18:05		mohan	OK
46	O3603-10	MH0FE2S	MS	07/13/23 18:07		mohan	OK
47	O3603-11	MH0FE3	SAM	07/13/23 18:09		mohan	OK
48	O3603-12	MH0FE4	SAM	07/13/23 18:11		mohan	OK
49	O3603-13	MH0FF5	SAM	07/13/23 18:14		mohan	OK
50	O3603-14	MH0FF6	SAM	07/13/23 18:16		mohan	OK
51	O3603-15	MH0FF7	SAM	07/13/23 18:18		mohan	OK
52	O3603-16	MH0FF8	SAM	07/13/23 18:20		mohan	OK
53	CCV038	CCV038	CCV	07/13/23 18:23		mohan	OK
54	CCB038	CCB038	CCB	07/13/23 18:25		mohan	OK
55	O3603-17	MH0FF9	SAM	07/13/23 18:27		mohan	OK
56	O3603-18	MH0FG0	SAM	07/13/23 18:30		mohan	OK
57	O3603-19	MH0FG1	SAM	07/13/23 18:32		mohan	OK
58	O3603-20	MH0FG2	SAM	07/13/23 18:34		mohan	OK
59	O3603-21	MH0FG3	SAM	07/13/23 18:36		mohan	OK
60	O3603-22	MH0FG4	SAM	07/13/23 18:39		mohan	OK
61	CCV039	CCV039	CCV	07/13/23 18:41		mohan	OK
62	CCB039	CCB039	CCB	07/13/23 18:43		mohan	OK

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 46.60 LB
CAD: 6754017/SSF02422
DIMS: 24x14x13 IN
BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092
(908) 728-3140
REF: HIGHWAY 24
INV:
PO:
DEPT:

6/27/23
13:30
17.8°

FedEx Express

1 of 6
TRK# 0201 7802 8789 1515
MASTER
TE KBCA

TUE - 27 JUN 4:30P
** 2DAY **
07092
NJ-US EWR

Copy
Original Documents are included in CSF M1NJF02

Signature

6/27/23
Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 44.10 LB
CAD: 8754017/SSFO2422
DIMS: 25x14x14 IN

BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24

INV:
PO:
DEPT:

FedEx Express

E

3 of 6

MPS# 7802 8789 1537
0263

Mstr# 7802 8789 1515

0201

TUE - 27 JUN 4:30P
** 2DAY **

TE KBCA

07092
NJ-US EWR

Part # 158287-456 REF: 2024

6/27/23
13:30
20-1-

Copy

Original Documents are included in CSF MHQTOL

Signature

6/27/23

Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 24.95 LB
CAD: 6754017/SSF02422
DIMS: 26x14x14 IN

BILL THIRD PARTY

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 726-3140 REF: HIGHWAY 24

INV:
PO:
DEPT:

cl.
6/27/23
13:30
21.2°C

Part # 156207-432-[illegible]

FedEx
Express

4 of 6

MPS# 0263 **7802 8789 1548**

Mstr# 7802 8789 1515

0201

TUE - 27 JUN 4:30P
**** 2DAY ****

TE KBCA

07092
NJ-US **EWR**

Copy
Original Documents are included in CSF MH0502

Signature

6/27/23
Date

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3603	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	7/13/2023 8:05:19 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3603-01	MH0FD5	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-02	MH0FD6	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-03	MH0FD7	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-04	MH0FD8	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-05	MH0FD9	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-06	MH0FE0	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-07	MH0FE1	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-08	MH0FE2	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-09	MH0FE2D	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-10	MH0FE2S	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

O3603-11	MH0FE3	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-12	MH0FE4	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-13	MH0FF5	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-14	MH0FF6	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-15	MH0FF7	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-16	MH0FF8	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-17	MH0FF9	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-18	MH0FG0	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-19	MH0FG1	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-20	MH0FG2	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-21	MH0FG3	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3603-22	MH0FG4	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O6303_HgS **WorkList ID :** 171840 **Department :** Digestion **Date :** 07-13-2023 09:26:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3603-01	MH0FD5	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-02	MH0FD6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-03	MH0FD7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-04	MH0FD8	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-05	MH0FD9	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-06	MH0FE0	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-07	MH0FE1	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-08	MH0FE2	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-09	MH0FE2D	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-10	MH0FE2S	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-11	MH0FE3	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-12	MH0FE4	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-13	MH0FF5	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-14	MH0FF6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-15	MH0FF7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3603-16	MH0FF8	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-17	MH0FF9	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-18	MH0FG0	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-19	MH0FG1	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-20	MH0FG2	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3603-21	MH0FG3	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG

104

Date/Time 7/13/23 @ 9:45

Raw Sample Received by: MB-BYG'LAB

Raw Sample Relinquished by: CP (SMS)

Date/Time 7/13/23 @ 10:40

Raw Sample Received by: CP (SMS)

Raw Sample Relinquished by: MB-BYG'LAB

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O6303_HgS **WorkList ID :** 171840 **Department :** Digestion **Date :** 07-13-2023 09:26:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3603-22	MH0FG4	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG

105

Date/Time 7/13/23 @ 9:45

Raw Sample Received by: NB - DIG. LAB

Raw Sample Relinquished by: CP LMS

Date/Time 7/13/23 @ 16:40

Raw Sample Received by: CP LMS

Raw Sample Relinquished by: NB - DIG. LAB

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0FC4

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0FC4	O3604-10			X	
MH0FC4D	O3604-11			X	
MH0FC4S	O3604-12			X	
MH0FG5	O3604-13			X	
MH0FG6	O3604-14			X	
MH0FG7	O3604-15			X	
MH0FG8	O3604-16			X	
MH0FG9	O3604-17			X	
MH0FH0	O3604-18			X	
MH0FH1	O3604-19			X	
MH0FH2	O3604-20			X	
MH0FH3	O3604-21			X	
MH0FH4	O3604-22			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name: APPROVED

Date: 7/17/2023 Title: By Nimisha Pandya QA/QC Supervisor at 2:01 pm, Jul 17, 2023

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SS01-0-1-DUP	MH0F81	Soil/ leyoub_Patrick	Composite	ICP-MS(21)	1216 (3)	01	06/13/2023 10:00	3
HWY-SS13-0-1-DUP	MH0F83	Soil/ leyoub_Patrick	Composite	ICP-MS(21)	1220 (1)	13	06/12/2023 15:15	3
HWY-SS13-1-6-DUP	MH0F84	Soil/ leyoub_Patrick	Composite	ICP-MS(21)	1222 (1)	13	06/12/2023 15:15	4
HWY-SS22-0-1-DUP	MH0F85	Soil/ Davis_Brandi	Composite	ICP-MS(21)	1224 (1)	22	06/12/2023 15:18	4
HWY-SS22-1-6-DUP	MH0F86	Soil/ Davis_Brandi	Composite	ICP-MS(21)	1226 (1)	22	06/12/2023 15:18	4
HWY-SS29-0-1-DUP	MH0F87	Soil/ leyoub_Patrick	Composite	ICP-MS(21)	1228 (1)	29	06/12/2023 14:30	4
HWY-SS29-1-6-DUP	MH0F88	Soil/ leyoub_Patrick	Composite	ICP-MS(21)	1230 (1)	29	06/12/2023 14:30	4
HWY-SS-EB-1	MH0F89	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21)	1232, 1233 (2)	Field QC	06/13/2023 08:07	4
HWY-SS-EB-2	MH0F90	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21)	1234, 1235 (2)	Field QC	06/13/2023 08:07	4
1HF02 HWY-SS01-0-1HG	MH0FC4	Soil/ leyoub_Patrick	Composite	Hg(21)	1009 (1)	01	06/13/2023 10:00	QC 4 3446-01, 02 03

Sample(s) to be used for Lab QC: HWY-SS01-0-1-DUP Tag 1216, HWY-SS01-1-6-DUPHG Tag 1219

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700	[signature]	6/27/23 13:30	21.2, 19.3°C IRGUN #1 No Temp blank Cooler Seal Intact

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
F45	HWY-SS21-1-6HG	MH0FG5	Soil/ LaFemina_Matt	Composite	Hg(21)	1142 (1)	21	06/12/2023 09:40	4
F85	HWY-SS22-0-1-DUPHG	MH0FG6	Soil/ Davis_Brandi	Composite	Hg(21)	1225 (1)	22	06/12/2023 15:18	4
F46	HWY-SS22-0-1HG	MH0FG7	Soil/ Davis_Brandi	Composite	Hg(21)	1144 (1)	22	06/12/2023 15:18	4
F86	HWY-SS22-1-6-DUPHG	MH0FG8	Soil/ Davis_Brandi	Composite	Hg(21)	1227 (1)	22	06/12/2023 15:18	4
F47	HWY-SS22-1-6HG	MH0FG9	Soil/ Davis_Brandi	Composite	Hg(21)	1146 (1)	22	06/12/2023 15:18	4
F48	HWY-SS23-0-1HG	MH0FH0	Soil/ Davis_Brandi	Composite	Hg(21)	1148 (1)	23	06/13/2023 12:15	4
F49	HWY-SS23-1-6HG	MH0FH1	Soil/ Davis_Brandi	Composite	Hg(21)	1150 (1)	23	06/13/2023 12:15	5
F50	HWY-SS24-0-1HG	MH0FH2	Soil/ Davis_Brandi	Composite	Hg(21)	1152 (1)	24	06/13/2023 08:40	5
F51	HWY-SS24-1-6HG	MH0FH3	Soil/ Davis_Brandi	Composite	Hg(21)	1154 (1)	24	06/13/2023 08:40	5
F54	HWY-SS26-0-1HG	MH0FH4	Soil/ LaFemina_Matt	Composite	Hg(21)	1160 (1)	26	06/12/2023 10:55	5

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700	[signature]	6/27/23 13:30	21.2°C 19.3°C IR Gun #2 No Temp blank Cooler Bar Intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 2
Received By (Print Name) Cosanova Rosie		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FC4	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891548 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	21.2 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	~~07/12/2023~~ 6/27/23 7/12
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FC4	N/A	1009	O3604-10	Intact
2	MH0FC4D	N/A	1009	O3604-11	Intact
3	MH0FC4S	N/A	1009	O3604-12	Intact
4	MH0FG5	N/A	1142	O3604-13	Intact
5	MH0FG6	N/A	1225	O3604-14	Intact
6	MH0FG7	N/A	1144	O3604-15	Intact
7	MH0FG8	N/A	1227	O3604-16	Intact
8	MH0FG9	N/A	1146	O3604-17	Intact
9	MH0FH0	N/A	1148	O3604-18	Intact
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 2 of 2
Received By (Print Name)		Log-in Date 6/27/2023
Received By (Signature)		
Case Number 50856	SDG No. MH0FC4	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891559 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	19.3 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	6/27/23 07/12/2023 7/12
12.Time Received	13:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FH1	N/A	1150	O3604-19	Intact
2	MH0FH2	N/A	1152	O3604-20	Intact
3	MH0FH3	N/A	1154	O3604-21	Intact
4	MH0FH4	N/A	1160	O3604-22	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0FC4**
MA NO.		SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	5	✓	
4 . CSF Inventory Sheet (DC-2)	6	8	✓	
5 . SDG Narrative	9	11	✓	
6 . Communication Logs	12	36	✓	
7 . Percent Solids Log	37	38	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	NA	NA	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	39	49	✓	
27. Instrument raw data by instrument in analysis order	50	52	✓	
Other Data				
28. Standard and Reagent Preparation Logs	53	79	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	80	81	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	82	86	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 2)	87	88	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	89	90	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	91	91	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)	N. N. Pandya (Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	7/17/2023 (Date)
Audited by: (EPA)	(Signature)	(Print Name & Title)	(Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0FC4
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3604

A. Number of Samples and Date of Receipt

11 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Hg.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**

Cooler: 19.3^{o}C & 21.2^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.

Issue 4: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 4: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with ICP-MS analysis for the dried soil samples and Hg analysis for the wet soil samples

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0FC4:

If C = 0.1366 ppb
Vf = 100 mL
W = 0.56 g
S = 0.703(70.3/100)
DF = 1

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

$$\text{Concentration (mg/kg)} = 0.1366 \times \frac{100}{0.56 \times 0.703} \times 1 / 1000$$

$$= 0.0346982 \text{ mg/kg}$$

$$= 0.035 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Blank analyses did not indicate any presence of contamination. Spike sample did meet requirements. Duplicate sample did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya

Name: Nimisha Pandya

Date 7/17/2023

Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 13, 2023 3:14 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please the updated resolution for Issue 1. A resolution for Issue 3 will be provided once it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with ICP-MS analysis for the dried soil samples and Hg analysis for the wet soil samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Sample MH0F82 for ICP-MS analysis is not listed on the revised COC. The laboratory is requesting an updated COC.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, July 12, 2023 3:51 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, the dried soils samples require ICP-MS and the wet soils require Hg as brought to our attention by Chemtech.

Matt, can you revise the COC for the missing sample, sign and send back to Samantha.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:07 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Can you please confirm if dried/prepped soil samples and wet soil samples should both be analyzed for ICP-MS and Hg, as the attached COC lists soil samples MH0F02 – MH0F88 for ICP-MS analysis and soil samples MH0FC4 – MH0FK1 for Hg analysis.

Also, please advise on the additional issue from CHM.

Issue 3: Sample MH0F82 for ICP-MS analysis is not listed on the revised COC. The laboratory is requesting an updated COC.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 2:08 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Also, sample MH0F82 is missing in new updated COC so please provide. This is for ICP-MS analysis.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 1:51 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; 'deepak@CHEMTECH.NET' <deepak@CHEMTECH.NET>
Cc: 'Goodrich.Donald@epa.gov' <Goodrich.Donald@epa.gov>; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

Hi Samantha,

Can you please confirm that the dried/prepped samples need to be analyzed for ICP-MS and Wet samples need to be analyzed for Hg?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152

General Number: (908)789-8900
Fax: (908)789-8922

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---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett' <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356

Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM

To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/14/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 14:30
In Date: 07/13/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:55
Out Date: 07/14/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126426

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3604-10	MH0FC4	1	1.15	8.82	9.97	7.35	70.3	
O3604-11	MH0FC4D	2	1.15	8.82	9.97	7.35	70.3	
O3604-12	MH0FC4S	3	1.15	8.82	9.97	7.35	70.3	
O3604-13	MH0FG5	4	1.13	8.59	9.72	8.19	82.2	
O3604-14	MH0FG6	5	1.16	8.48	9.64	6.55	63.6	
O3604-15	MH0FG7	6	1.19	8.43	9.62	6.58	63.9	
O3604-16	MH0FG8	7	1.19	8.58	9.77	7.92	78.4	
O3604-17	MH0FG9	8	1.13	8.65	9.78	7.94	78.7	
O3604-18	MH0FH0	9	1.14	8.51	9.65	6.75	65.9	
O3604-19	MH0FH1	10	1.15	8.83	9.98	8.23	80.2	
O3604-20	MH0FH2	11	1.18	8.79	9.97	8.61	84.5	
O3604-21	MH0FH3	12	1.19	8.60	9.79	8.74	87.8	
O3604-22	MH0FH4	13	1.11	8.57	9.68	7.6	75.7	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

U3126426

WorkList Name : 51-O3604 **WorkList ID :** 171856 **Department :** Wet-Chemistry **Date :** 07-13-2023 10:59:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3604-10	MH0FC4	Solid	Percent Solids	Cool 4 deg C	USEP01		06/13/2023	Chemtech -SO
O3604-11	MH0FC4D	Solid	Percent Solids	Cool 4 deg C	USEP01		06/13/2023	Chemtech -SO
O3604-12	MH0FC4S	Solid	Percent Solids	Cool 4 deg C	USEP01		06/13/2023	Chemtech -SO
O3604-13	MH0FG5	Solid	Percent Solids	Cool 4 deg C	USEP01		06/12/2023	Chemtech -SO
O3604-14	MH0FG6	Solid	Percent Solids	Cool 4 deg C	USEP01		06/12/2023	Chemtech -SO
O3604-15	MH0FG7	Solid	Percent Solids	Cool 4 deg C	USEP01		06/12/2023	Chemtech -SO
O3604-16	MH0FG8	Solid	Percent Solids	Cool 4 deg C	USEP01		06/12/2023	Chemtech -SO
O3604-17	MH0FG9	Solid	Percent Solids	Cool 4 deg C	USEP01		06/12/2023	Chemtech -SO
O3604-18	MH0FH0	Solid	Percent Solids	Cool 4 deg C	USEP01		06/13/2023	Chemtech -SO
O3604-19	MH0FH1	Solid	Percent Solids	Cool 4 deg C	USEP01		06/13/2023	Chemtech -SO
O3604-20	MH0FH2	Solid	Percent Solids	Cool 4 deg C	USEP01		06/13/2023	Chemtech -SO
O3604-21	MH0FH3	Solid	Percent Solids	Cool 4 deg C	USEP01		06/13/2023	Chemtech -SO
O3604-22	MH0FH4	Solid	Percent Solids	Cool 4 deg C	USEP01		06/12/2023	Chemtech -SO

38

Date/Time 07-13-23 13:30

Raw Sample Received by: JP (WC)

Raw Sample Relinquished by: CP SM

Date/Time 07-13-23 14:35

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JP (WC)

EPA SAMPLE NO.

MH0FC2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH90D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC2

Matrix: SOIL Lab Sample ID: O3602-10

% Solids: 70.3 Date Received: 06/97/9093

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7234-47-6	Mercury	0.035	J	07/12/9093	1250

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-13

% Solids: 82.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.041	J	07/14/2023	1459

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Cons2lting Gro2p Contract: 6xHERH50D0011

Lab Code: CHM Case No.: u0xu6 MA No. : SDG No.: MH0FC4

Matri7: SOIL Lab Sample ID: O3604-14

% Solids: 63.6 Date Received: 06/58/5053

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
8439-98-6	Merc2ry	0.095	J	08/14/5053	1u0u

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG7

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-15

% Solids: 63.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.067	J	07/14/2023	1508

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-16

% Solids: 78.4 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.068	J	07/14/2023	1510

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FG9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-17

% Solids: 78.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.068	J	07/14/2023	1512

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-18

% Solids: 65.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.17		07/14/2023	1514

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-19

% Solids: 80.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.36		07/14/2023	1517

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH50D0011

Lab Code: CHM Case No.: 20826 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-50

% Solids: 84.2 Date Received: 06/57/5053

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.10	J	07/14/5053	1219

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 69HERH70D0011

Lab Code: CHM Case No.: 80986 MA No. : SDG No.: MH0FC5

Matrix: SOIL Lab Sample ID: O3605-71

% Solids: 92.9 Date Received: 06/72/7073

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
2534-42-6	Mercury	0.086	J	02/15/7073	1871

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FC4

Matrix: SOIL Lab Sample ID: O3604-22

% Solids: 75.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.043	J	07/14/2023	1523

NOTE: Hardness (total) is reported in mg/L

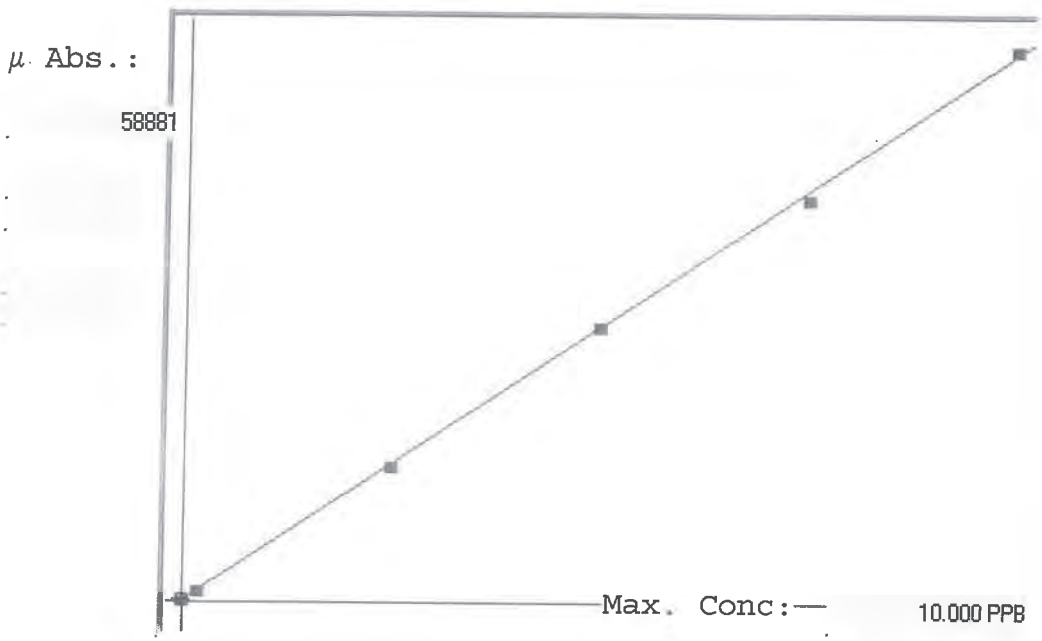
Comments:

Reviewed By:bin
On:7/15/2023 12:40:24 AM
Inst Id :CV1

LB126452

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.7170e-004 slope

C= -2.6024e-002 y-intercept

Rho= 0.9998367

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	% D
0.00	0.000	0.037	0.037	369	0.000	369					
0.05	0.050					302	0				-3
0.20	0.200	0.195	-0.005	1290	0.0 %	1290					-1
2.50	2.500	2.482	-0.018	14609	0.0 %	14609					-1
5.00	5.000	5.031	0.031	29453	0.0 %	29453					-2
7.50	7.500	7.370	-0.130	43074	0.0 %	43074					1
10.0	10.000	10.084	0.084	58881	0.0 %	58881					

Reviewed By:bin
On:7/15/2023 12:40:24 AM
Inst Id :CV1

LB126452

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
	0 S0	369	-	0	SFAM01.1	PPB	7/14/2023 13:43	Std
	0.2 S01	1290	-	0.2	SFAM01.1	PPB	7/14/2023 13:45	Std
	2.5 S02	14609	-	2.5	SFAM01.1	PPB	7/14/2023 13:47	Std
	5 S03	29453	-	5	SFAM01.1	PPB	7/14/2023 13:49	Std
	7.5 S04	43074	-	7.5	SFAM01.1	PPB	7/14/2023 13:52	Std
	10 S05	58881	-	10	SFAM01.1	PPB	7/14/2023 13:54	Std
ICV071	ICV071	22917	3.9089	-	SFAM01.1	PPB	7/14/2023 13:59	SMPL
ICB071	ICB071	91	-0.0104	-	SFAM01.1	PPB	7/14/2023 14:02	SMPL
CCV040	CCV040	28988	4.9512	-	SFAM01.1	PPB	7/14/2023 14:04	SMPL
CCB040	CCB040	72	-0.0137	-	SFAM01.1	PPB	7/14/2023 14:06	SMPL
PB154006BL	PBS006	146	-0.001	-	SFAM01.1	PPB	7/14/2023 14:08	SMPL
O3450-01	MH0F01	480	0.0564	-	SFAM01.1	PPB	7/14/2023 14:11	SMPL
O3450-02	MH0F05	455	0.0521	-	SFAM01.1	PPB	7/14/2023 14:13	SMPL
O3450-03	MH0F06	231	0.0136	-	SFAM01.1	PPB	7/14/2023 14:15	SMPL
O3450-04	MH0F80	365	0.0366	-	SFAM01.1	PPB	7/14/2023 14:17	SMPL
O3450-05	MH0F80D	449	0.0511	-	SFAM01.1	PPB	7/14/2023 14:20	SMPL
O3450-06	MH0F80S	14008	2.3792	-	SFAM01.1	PPB	7/14/2023 14:22	SMPL
PB154209BL	PBS209	199	0.0081	-	SFAM01.1	PPB	7/14/2023 14:24	SMPL
O3583-01	EZZY9	1592	0.2473	-	SFAM01.1	PPB	7/14/2023 14:26	SMPL
O3583-02	EZZZ0	1299	0.197	-	SFAM01.1	PPB	7/14/2023 14:29	SMPL
O3583-03	EZZZ1	1246	0.1879	-	SFAM01.1	PPB	7/14/2023 14:31	SMPL
O3583-04	EZZZ2	1587	0.2465	-	SFAM01.1	PPB	7/14/2023 14:33	SMPL
O3583-05	EZZZ3	746	0.1021	-	SFAM01.1	PPB	7/14/2023 14:35	SMPL
O3583-06	EZZZ3D	865	0.1225	-	SFAM01.1	PPB	7/14/2023 14:40	SMPL
O3583-07	EZZZ3S	14432	2.452	-	SFAM01.1	PPB	7/14/2023 14:45	SMPL
PB154210BL	PBS210	346	0.0334	-	SFAM01.1	PPB	7/14/2023 14:47	SMPL
O3604-10	MH0FC4	947	0.1366	-	SFAM01.1	PPB	7/14/2023 14:50	SMPL
O3604-11	MH0FC4D	986	0.1433	-	SFAM01.1	PPB	7/14/2023 14:54	SMPL
O3604-13	MH0FG5	1164	0.1738	-	SFAM01.1	PPB	7/14/2023 14:59	SMPL
CCV041	CCV041	29201	4.9878	-	SFAM01.1	PPB	7/14/2023 15:01	SMPL
CCB041	CCB041	104	-0.0082	-	SFAM01.1	PPB	7/14/2023 15:03	SMPL
O3604-14	MH0FG6	2065	0.3285	-	SFAM01.1	PPB	7/14/2023 15:05	SMPL
O3604-15	MH0FG7	1446	0.2223	-	SFAM01.1	PPB	7/14/2023 15:08	SMPL
O3604-16	MH0FG8	1708	0.2672	-	SFAM01.1	PPB	7/14/2023 15:10	SMPL
O3604-17	MH0FG9	1800	0.283	-	SFAM01.1	PPB	7/14/2023 15:12	SMPL
O3604-18	MH0FH0	3647	0.6002	-	SFAM01.1	PPB	7/14/2023 15:14	SMPL
O3604-19	MH0FH1	9073	1.5318	-	SFAM01.1	PPB	7/14/2023 15:17	SMPL
O3604-20	MH0FH2	2766	0.4489	-	SFAM01.1	PPB	7/14/2023 15:19	SMPL
O3604-21	MH0FH3	1862	0.2937	-	SFAM01.1	PPB	7/14/2023 15:21	SMPL
O3604-22	MH0FH4	1178	0.1762	-	SFAM01.1	PPB	7/14/2023 15:23	SMPL
PB154211BL	PBS211	426	0.0471	-	SFAM01.1	PPB	7/14/2023 15:26	SMPL
O3605-01	MH0FH5	1241	0.1871	-	SFAM01.1	PPB	7/14/2023 15:28	SMPL
O3605-02	MH0FH6	1169	0.1747	-	SFAM01.1	PPB	7/14/2023 15:30	SMPL
O3605-03	MH0FH7	1833	0.2887	-	SFAM01.1	PPB	7/14/2023 15:33	SMPL
O3605-04	MH0FH8	1869	0.2949	-	SFAM01.1	PPB	7/14/2023 15:35	SMPL
O3605-05	MH0FH9	2506	0.4043	-	SFAM01.1	PPB	7/14/2023 15:37	SMPL

Reviewed By:bin
On:7/15/2023 12:40:24 AM
Inst Id :CV1

LB126452

INSTRUMENT ID : CV1

O3605-06	MH0FJ0	6101	1.0215	-	SFAM01.1	PPB	7/14/2023 15:39	SMPL
O3605-07	MH0FJ1	1545	0.2393	-	SFAM01.1	PPB	7/14/2023 15:42	SMPL
O3605-08	MH0FJ2	51757	8.8607	-	SFAM01.1	PPB	7/14/2023 15:44	SMPL
O3605-09	MH0FJ3	3647	0.6002	-	SFAM01.1	PPB	7/14/2023 15:46	SMPL
O3605-10	MH0FJ4	2087	0.3323	-	SFAM01.1	PPB	7/14/2023 15:48	SMPL
CCV042	CCV042	29483	5.0362	-	SFAM01.1	PPB	7/14/2023 15:51	SMPL
CCB042	CCB042	314	0.0279	-	SFAM01.1	PPB	7/14/2023 15:53	SMPL
O3605-11	MH0FJ5	843	0.1187	-	SFAM01.1	PPB	7/14/2023 15:55	SMPL
O3605-12	MH0FJ6	1357	0.207	-	SFAM01.1	PPB	7/14/2023 15:57	SMPL
O3605-13	MH0FJ6D	1272	0.1924	-	SFAM01.1	PPB	7/14/2023 16:00	SMPL
O3605-14	MH0FJ6S	15773	2.6822	-	SFAM01.1	PPB	7/14/2023 16:02	SMPL
O3605-15	MH0FJ7	231020	39.6404	-	SFAM01.1	PPB	7/14/2023 16:04	SMPL
O3605-16	MH0FJ8	1480	0.2281	-	SFAM01.1	PPB	7/14/2023 16:06	SMPL
O3605-17	MH0FJ9	4620	0.7672	-	SFAM01.1	PPB	7/14/2023 16:09	SMPL
O3605-18	MH0FK0	5245	0.8745	-	SFAM01.1	PPB	7/14/2023 16:11	SMPL
O3605-19	MH0FK1	7175	1.2059	-	SFAM01.1	PPB	7/14/2023 16:13	SMPL
PB154212BL	PBS212	154	0.0004	-	SFAM01.1	PPB	7/14/2023 16:15	SMPL
O3511-03	A46Q2	394	0.0416	-	SFAM01.1	PPB	7/14/2023 16:18	SMPL
O3511-04	A46Q2D	359	0.0356	-	SFAM01.1	PPB	7/14/2023 16:20	SMPL
O3511-05	A46Q2S	15823	2.6908	-	SFAM01.1	PPB	7/14/2023 16:25	SMPL
O3511-06	A46S7	4936	0.8215	-	SFAM01.1	PPB	7/14/2023 16:27	SMPL
O3511-07	A46T0	2215	0.3543	-	SFAM01.1	PPB	7/14/2023 16:30	SMPL
O3511-08	A46T6	19297	3.2873	-	SFAM01.1	PPB	7/14/2023 16:32	SMPL
O3511-09	A46T7	15074	2.5622	-	SFAM01.1	PPB	7/14/2023 16:34	SMPL
O3511-10	A46T8	5359	0.8941	-	SFAM01.1	PPB	7/14/2023 16:36	SMPL
O3511-11	A46T9	3881	0.6403	-	SFAM01.1	PPB	7/14/2023 16:39	SMPL
O3511-12	A46W0	8056	1.3572	-	SFAM01.1	PPB	7/14/2023 16:41	SMPL
CCV043	CCV043	29704	5.0742	-	SFAM01.1	PPB	7/14/2023 16:43	SMPL
CCB043	CCB043	329	0.0305	-	SFAM01.1	PPB	7/14/2023 16:45	SMPL
O3511-13	A46W4	29394	5.021	-	SFAM01.1	PPB	7/14/2023 16:48	SMPL
O3511-14	A46W1	18529	3.1554	-	SFAM01.1	PPB	7/14/2023 16:50	SMPL
O3511-15	A46W2	18162	3.0924	-	SFAM01.1	PPB	7/14/2023 16:52	SMPL
O3511-16	A46W5	8565	1.4446	-	SFAM01.1	PPB	7/14/2023 16:54	SMPL
O3511-17	A46W6	199	0.0081	-	SFAM01.1	PPB	7/14/2023 16:57	SMPL
O3511-18	A46W7	626	0.0815	-	SFAM01.1	PPB	7/14/2023 16:59	SMPL
O3511-19	A46W8	2011	0.3193	-	SFAM01.1	PPB	7/14/2023 17:01	SMPL
O3511-20	A46W3	30621	5.2316	-	SFAM01.1	PPB	7/14/2023 17:04	SMPL
O3511-21	A46W9	2010	0.3191	-	SFAM01.1	PPB	7/14/2023 17:06	SMPL
O3511-22	A46X3	25510	4.3541	-	SFAM01.1	PPB	7/14/2023 17:08	SMPL
O3511-23	A46X4	23773	4.0558	-	SFAM01.1	PPB	7/14/2023 17:10	SMPL
O3511-24	A46X5	21154	3.6061	-	SFAM01.1	PPB	7/14/2023 17:13	SMPL
O3604-12	MH0FC4S	15714	2.6721	-	SFAM01.1	PPB	7/14/2023 17:15	SMPL
O3605-15DLX10	MH0FJ7	25284	4.3153	-	SFAM01.1	PPB	7/14/2023 17:17	SMPL
CCV044	CCV044	29708	5.0749	-	SFAM01.1	PPB	7/14/2023 17:22	SMPL
CCB044	CCB044	332	0.031	-	SFAM01.1	PPB	7/14/2023 17:25	SMPL

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O329M

Test : e r cuycP

Prepbatch ID : B15, ML596

Sequence ID/Qc Batch ID: 015L2M, L6

Standard ID :
e B7, 8876e B7, 8886e B72L846e B72L886e B723996e B723956e B7239L6e B723936e B7239M6e B7239, 6e B723926e B723
976e B723946e B723556e B7235L6

Chemical ID :
e M3756e MM, 86e M8526e M8L96e , 92L6e , , L46e , 2926e , 2986WL2926

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP75997	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP75999	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4459 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76298	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 1.00000ml of M5609 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP76299	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP76300	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.30000ml of W2606 + 0.20000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP76301	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 245.00000ml of W2606 + 2.50000ml of MP76298 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP76302	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 242.50000ml of W2606 + 5.00000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP76303	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 240.00000ml of W2606 + 7.50000ml of MP76298 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76304	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 237.50000ml of W2606 + 10.00000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP76305	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5609 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76306	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76307	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5609 + 10.00000ml of MP76298 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76308	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5609 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP76311	07/14/2023	07/15/2023	Mohan Bera	None	None	Sarabjit Jaswal 07/15/2023

FROM 150.00000ml of M5606 + 50.00000ml of M5609 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP76312	07/14/2023	07/15/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/15/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5606 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/11/2024	07/10/2023 / Al-Terek	01/13/2023 / Al-Terek	M5609

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4917 - 20
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

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info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M5528-32
MB

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154210

SOP ID : M7471B-Mercury-17, MSFAM01.1-Mercury in Soil-2

SDG No : MH0FC4

Start Digest Date: 07/14/2023 **Time :** 10:40 **Temp :** 94 °C

Matrix : SOIL

End Digest Date: 07/14/2023 **Time :** 11:10 **Temp :** 93 °C

Pippete ID: HG A

Digestion tube ID: M5593

Balance ID : M SC-3

Block thermometer ID: HG-DIG#1

Filter paper ID : NA

Dig Technician Signature: MS

pH Strip ID : N/A

Supervisor Signature:

Hood ID : #1

Block ID: **1.** HG HOT BLOCK#1 **2.** N/A

Temp : **1.** 94°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP76305
CCV	100mL	MP76307
Matrix Spike	1.0mL	MP76298
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP76311
KMnO4	15.0mL	MP75997
Hydroxylamine HCL	6.0mL	MP75999
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP76299
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP76300
2.5 ppb	S2.5	100mL	MP76301
5.0 ppb	S5.0	100mL	MP76302
7.5 ppb	S7.5	100mL	MP76303
10.0 ppb	S10.0	100mL	MP76304
ICV	ICV	100mL	MP76305
ICB	ICB	100mL	MP76306
CCV	CCV	100mL	MP76307
CCB	CCB	100mL	MP76308
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/14/23 @ 11:50	MS ~ Dig. Lab	MS ~ Metal lab
	Preparation Group	**Analysis Group**

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154210

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
O3604-10	MH0FC4	0.56	100	NA	N/A	1-16
O3604-11	MH0FC4D	0.55	100	NA	N/A	17
O3604-12	MH0FC4S	0.54	100	NA	MP76298	18
O3604-13	MH0FG5	0.51	100	NA	N/A	19
O3604-14	MH0FG6	0.56	100	NA	N/A	20
O3604-15	MH0FG7	0.52	100	NA	N/A	21
O3604-16	MH0FG8	0.50	100	NA	N/A	22
O3604-17	MH0FG9	0.53	100	NA	N/A	23
O3604-18	MH0FH0	0.55	100	NA	N/A	24
O3604-19	MH0FH1	0.53	100	NA	N/A	25
O3604-20	MH0FH2	0.53	100	NA	N/A	26
O3604-21	MH0FH3	0.60	100	NA	N/A	27
O3604-22	MH0FH4	0.54	100	NA	N/A	28
PB154210BL	PBS210	0.50	100	NA	N/A	29

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/14/23 13:43		mohan	OK
2	S0.2	S01	CAL2	07/14/23 13:45		mohan	OK
3	S2.5	S02	CAL3	07/14/23 13:47		mohan	OK
4	S5	S03	CAL4	07/14/23 13:49		mohan	OK
5	S7.5	S04	CAL5	07/14/23 13:52		mohan	OK
6	S10	S05	CAL6	07/14/23 13:54		mohan	OK
7	ICV071	ICV071	ICV	07/14/23 13:59		mohan	OK
8	ICB071	ICB071	ICB	07/14/23 14:02		mohan	OK
9	CCV040	CCV040	CCV	07/14/23 14:04		mohan	OK
10	CCB040	CCB040	CCB	07/14/23 14:06		mohan	OK
11	PB154006BL	PBS006	MB	07/14/23 14:08		mohan	OK
12	O3450-01	MH0F01	SAM	07/14/23 14:11		mohan	OK
13	O3450-02	MH0F05	SAM	07/14/23 14:13		mohan	OK
14	O3450-03	MH0F06	SAM	07/14/23 14:15		mohan	OK
15	O3450-04	MH0F80	SAM	07/14/23 14:17		mohan	OK
16	O3450-05	MH0F80D	DUP	07/14/23 14:20		mohan	OK
17	O3450-06	MH0F80S	MS	07/14/23 14:22		mohan	OK
18	PB154209BL	PBS209	MB	07/14/23 14:24		mohan	OK
19	O3583-01	EZZY9	SAM	07/14/23 14:26		mohan	OK
20	O3583-02	EZZZ0	SAM	07/14/23 14:29		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

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CCV Standard	MP76307
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CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

21	O3583-03	EZZZ1	SAM	07/14/23 14:31		mohan	OK
22	O3583-04	EZZZ2	SAM	07/14/23 14:33		mohan	OK
23	O3583-05	EZZZ3	SAM	07/14/23 14:35		mohan	OK
24	O3583-06	EZZZ3D	DUP	07/14/23 14:40		mohan	OK
25	O3583-07	EZZZ3S	MS	07/14/23 14:45		mohan	OK
26	PB154210BL	PBS210	MB	07/14/23 14:47		mohan	OK
27	O3604-10	MH0FC4	SAM	07/14/23 14:50		mohan	OK
28	O3604-11	MH0FC4D	DUP	07/14/23 14:54		mohan	OK
29	O3604-13	MH0FG5	SAM	07/14/23 14:59		mohan	OK
30	CCV041	CCV041	CCV	07/14/23 15:01		mohan	OK
31	CCB041	CCB041	CCB	07/14/23 15:03		mohan	OK
32	O3604-14	MH0FG6	SAM	07/14/23 15:05		mohan	OK
33	O3604-15	MH0FG7	SAM	07/14/23 15:08		mohan	OK
34	O3604-16	MH0FG8	SAM	07/14/23 15:10		mohan	OK
35	O3604-17	MH0FG9	SAM	07/14/23 15:12		mohan	OK
36	O3604-18	MH0FH0	SAM	07/14/23 15:14		mohan	OK
37	O3604-19	MH0FH1	SAM	07/14/23 15:17		mohan	OK
38	O3604-20	MH0FH2	SAM	07/14/23 15:19		mohan	OK
39	O3604-21	MH0FH3	SAM	07/14/23 15:21		mohan	OK
40	O3604-22	MH0FH4	SAM	07/14/23 15:23		mohan	OK
41	PB154211BL	PBS211	MB	07/14/23 15:26		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

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Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

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ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

42	O3605-01	MH0FH5	SAM	07/14/23 15:28		mohan	OK
43	O3605-02	MH0FH6	SAM	07/14/23 15:30		mohan	OK
44	O3605-03	MH0FH7	SAM	07/14/23 15:33		mohan	OK
45	O3605-04	MH0FH8	SAM	07/14/23 15:35		mohan	OK
46	O3605-05	MH0FH9	SAM	07/14/23 15:37		mohan	OK
47	O3605-06	MH0FJ0	SAM	07/14/23 15:39		mohan	OK
48	O3605-07	MH0FJ1	SAM	07/14/23 15:42		mohan	OK
49	O3605-08	MH0FJ2	SAM	07/14/23 15:44		mohan	OK
50	O3605-09	MH0FJ3	SAM	07/14/23 15:46		mohan	OK
51	O3605-10	MH0FJ4	SAM	07/14/23 15:48		mohan	OK
52	CCV042	CCV042	CCV	07/14/23 15:51		mohan	OK
53	CCB042	CCB042	CCB	07/14/23 15:53		mohan	OK
54	O3605-11	MH0FJ5	SAM	07/14/23 15:55		mohan	OK
55	O3605-12	MH0FJ6	SAM	07/14/23 15:57		mohan	OK
56	O3605-13	MH0FJ6D	DUP	07/14/23 16:00		mohan	OK
57	O3605-14	MH0FJ6S	MS	07/14/23 16:02		mohan	OK
58	O3605-15	MH0FJ7	SAM	07/14/23 16:04	Hg High	mohan	Dilution
59	O3605-16	MH0FJ8	SAM	07/14/23 16:06		mohan	OK
60	O3605-17	MH0FJ9	SAM	07/14/23 16:09		mohan	OK
61	O3605-18	MH0FK0	SAM	07/14/23 16:11		mohan	OK
62	O3605-19	MH0FK1	SAM	07/14/23 16:13		mohan	OK

CHEMTECH

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Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

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CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

63	PB154212BL	PBS212	MB	07/14/23 16:15		mohan	OK
64	O3511-03	A46Q2	SAM	07/14/23 16:18		mohan	OK
65	O3511-04	A46Q2D	DUP	07/14/23 16:20		mohan	OK
66	O3511-05	A46Q2S	MS	07/14/23 16:25		mohan	OK
67	O3511-06	A46S7	SAM	07/14/23 16:27		mohan	OK
68	O3511-07	A46T0	SAM	07/14/23 16:30		mohan	OK
69	O3511-08	A46T6	SAM	07/14/23 16:32		mohan	OK
70	O3511-09	A46T7	SAM	07/14/23 16:34		mohan	OK
71	O3511-10	A46T8	SAM	07/14/23 16:36		mohan	OK
72	O3511-11	A46T9	SAM	07/14/23 16:39		mohan	OK
73	O3511-12	A46W0	SAM	07/14/23 16:41		mohan	OK
74	CCV043	CCV043	CCV	07/14/23 16:43		mohan	OK
75	CCB043	CCB043	CCB	07/14/23 16:45		mohan	OK
76	O3511-13	A46W4	SAM	07/14/23 16:48		mohan	OK
77	O3511-14	A46W1	SAM	07/14/23 16:50		mohan	OK
78	O3511-15	A46W2	SAM	07/14/23 16:52		mohan	OK
79	O3511-16	A46W5	SAM	07/14/23 16:54		mohan	OK
80	O3511-17	A46W6	SAM	07/14/23 16:57		mohan	OK
81	O3511-18	A46W7	SAM	07/14/23 16:59		mohan	OK
82	O3511-19	A46W8	SAM	07/14/23 17:01		mohan	OK
83	O3511-20	A46W3	SAM	07/14/23 17:04		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

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CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

84	O3511-21	A46W9	SAM	07/14/23 17:06		mohan	OK
85	O3511-22	A46X3	SAM	07/14/23 17:08		mohan	OK
86	O3511-23	A46X4	SAM	07/14/23 17:10		mohan	OK
87	O3511-24	A46X5	SAM	07/14/23 17:13		mohan	OK
88	O3604-12	MH0FC4S	MS	07/14/23 17:15		mohan	OK
89	O3605-15DL	MH0FJ7	SAM	07/14/23 17:17	10X for Hg	mohan	Confirms
90	CCV044	CCV044	CCV	07/14/23 17:22		mohan	OK
91	CCB044	CCB044	CCB	07/14/23 17:25		mohan	OK

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 24.85 LB
CAD: 6754017/SSFO2422
DIMS: 26x14x14 IN

BILL THIRD PARTY

TO **ATTN SAMPLE RECEIVING**

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

728-8140 REF: HIGHWAY 84

INV:
PO:
DEPT:

cl.
6/27/23
13:30
21.2 c

FedEx
Express

E

4 of 6

MPS# 0283 **7802 8789 1548**

Mstr# 7802 8789 1515

0201

TUE - 27 JUN 4:30P
**** 2DAY ****

TE KBCA

07092
NJ-US **EWR**

Part # 156097-445 REV 0 FORM 0201 4231202040581sv

Copy
Original Documents are included in CSF MH0002

Signature

6/27/23
Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 12.65 LB
CAD: 6754017/SSF02422
DIMS: 17x10x15 IN

BILL THIRD PARTY

Part # 156287-4962 DFDB80 eENS 05/24

TO ATTN SAMPLE RECEIVING

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24
INV:
PO: DEPT:

6/27/23
13:30
19.3

FedEx Express

E

TUE - 27 JUN 4:30P
** 2DAY **

5 of 6

MPS# 0263 7802 8789 1559

Mstr# 7802 8789 1515 0201

TE KBCA

07092
NJ-US EWR

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3604	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	7/13/2023 9:41:40 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3604-10	MH0FC4	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-11	MH0FC4D	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-12	MH0FC4S	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-13	MH0FG5	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-14	MH0FG6	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-15	MH0FG7	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-16	MH0FG8	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-17	MH0FG9	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-18	MH0FH0	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-19	MH0FH1	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

O3604-20	MH0FH2	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-21	MH0FH3	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3604-22	MH0FH4	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3604_HgS **WorkList ID :** 171861 **Department :** Digestion **Date :** 07-13-2023 17:03:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3604-10	MH0FC4	Solid	Mercury	Cool 4 deg C	USEP01		06/13/2023	SFAM_HG
O3604-11	MH0FC4D	Solid	Mercury	Cool 4 deg C	USEP01		06/13/2023	SFAM_HG
O3604-12	MH0FC4S	Solid	Mercury	Cool 4 deg C	USEP01		06/13/2023	SFAM_HG
O3604-13	MH0FG5	Solid	Mercury	Cool 4 deg C	USEP01		06/12/2023	SFAM_HG
O3604-14	MH0FG6	Solid	Mercury	Cool 4 deg C	USEP01		06/12/2023	SFAM_HG
O3604-15	MH0FG7	Solid	Mercury	Cool 4 deg C	USEP01		06/12/2023	SFAM_HG
O3604-16	MH0FG8	Solid	Mercury	Cool 4 deg C	USEP01		06/12/2023	SFAM_HG
O3604-17	MH0FG9	Solid	Mercury	Cool 4 deg C	USEP01		06/12/2023	SFAM_HG
O3604-18	MH0FH0	Solid	Mercury	Cool 4 deg C	USEP01		06/13/2023	SFAM_HG
O3604-19	MH0FH1	Solid	Mercury	Cool 4 deg C	USEP01		06/13/2023	SFAM_HG
O3604-20	MH0FH2	Solid	Mercury	Cool 4 deg C	USEP01		06/13/2023	SFAM_HG
O3604-21	MH0FH3	Solid	Mercury	Cool 4 deg C	USEP01		06/13/2023	SFAM_HG
O3604-22	MH0FH4	Solid	Mercury	Cool 4 deg C	USEP01		06/12/2023	SFAM_HG

91

Date/Time 7/14/23 @ ~~10:11~~ 10:15

Raw Sample Received by: Dig. Lab

Raw Sample Relinquished by: (Johnson)

Date/Time 7/14/23 @ 11:05

Raw Sample Received by: (Johnson)

Raw Sample Relinquished by: Dig. Lab

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No.: SDG No.: MH0FH5

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH0FH5	O3605-01			X	
MH0FH6	O3605-02			X	
MH0FH7	O3605-03			X	
MH0FH8	O3605-04			X	
MH0FH9	O3605-05			X	
MH0FJ0	O3605-06			X	
MH0FJ1	O3605-07			X	
MH0FJ2	O3605-08			X	
MH0FJ3	O3605-09			X	
MH0FJ4	O3605-10			X	
MH0FJ5	O3605-11			X	
MH0FJ6	O3605-12			X	
MH0FJ6D	O3605-13			X	
MH0FJ6S	O3605-14			X	
MH0FJ7	O3605-15			X	
MH0FJ8	O3605-16			X	
MH0FJ9	O3605-17			X	
MH0FK0	O3605-18			X	
MH0FK1	O3605-19			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name:

Date: 7/17/2023 Title:

APPROVED

By Nimisha Pandya QA/QC Supervisor at 2:06 pm, Jul 17, 2023

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
F55	HWY-SS26-1-6HG	MH0FH5	Soil/ LaFemina_Matt	Composite	Hg(21)	1162 (1)	26	06/12/2023 10:57	
F56	HWY-SS27-0-1HG	MH0FH6	Soil/ Davis_Brandi	Composite	Hg(21)	1164 (1)	27	06/12/2023 14:07	
F57	HWY-SS27-1-6HG	MH0FH7	Soil/ Davis_Brandi	Composite	Hg(21)	1166 (1)	27	06/12/2023 08:48	
F58	HWY-SS28-0-1HG	MH0FH8	Soil/ Davis_Brandi	Composite	Hg(21)	1168 (1)	28	06/12/2023 12:00	
F59	HWY-SS28-1-6HG	MH0FH9	Soil/ LaFemina_Matt	Composite	Hg(21)	1170 (1)	28	06/12/2023 12:00	
F87	HWY-SS29-0-1-DUPHG	MH0FJ0	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1229 (1)	29	06/12/2023 14:30	
F60	HWY-SS29-0-1HG	MH0FJ1	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1172 (1)	29	06/12/2023 14:30	
F88	HWY-SS29-1-6-DUPHG	MH0FJ2	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1231 (1)	29	06/12/2023 14:30	
F61	HWY-SS29-1-6HG	MH0FJ3	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1174 (1)	29	06/12/2023 14:30	
F62	HWY-SS30-0-1HG	MH0FJ4	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1176 (1)	30	06/13/2023 11:00	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700	Repak	6/27/23	19.1°C
				13:30	IRON #1
					X10 Temp Blank
					Custody Seal Intact

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-134849-0002

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
F63	HWY-SS30-1-6HG	MH0FJ5	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1178 (1)	30	06/13/2023 11:00	
F68	HWY-SS33-0-1HG	MH0FJ6	Soil/ Davis_Brandi	Composite	Hg(21)	1188 (1)	33	06/12/2023 15:40	3 QC
F69	HWY-SS33-1-6HG	MH0FJ7	Soil/ Davis_Brandi	Composite	Hg(21)	1190 (1)	33	06/12/2023 15:40	QC3
F70	HWY-SS34-0-1HG	MH0FJ8	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1192 (1)	34	06/13/2023 15:10	
F71	HWY-SS34-1-6HG	MH0FJ9	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1194 (1)	34	06/13/2023 15:10	
F72	HWY-SS35-0-1HG	MH0FK0	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1196 (1)	35	06/13/2023 08:45	
F73	HWY-SS35-1-6HG	MH0FK1	Soil/ Ieyoub_Patrick	Composite	Hg(21)	1198 (1)	35	06/13/2023 08:45	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Matt LaFemina Tetra Tech	6/23/23 1700		6/27/23	19.1°
				13:30	IR Gun #1
					No Temp blank
					Cooler Seal Intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 1
Received By (Print Name) Cassipovea René		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0FH5	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891560 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	19.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	6/27/23 ~~07/13/2023~~ 7/12
12.Time Received	13:30

	EPA Sample #	Aqueous Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0FH5	N/A	1162	O3605-01	Intact
2	MH0FH6	N/A	1164	O3605-02	Intact
3	MH0FH7	N/A	1166	O3605-03	Intact
4	MH0FH8	N/A	1168	O3605-04	Intact
5	MH0FH9	N/A	1170	O3605-05	Intact
6	MH0FJ0	N/A	1229	O3605-06	Intact
7	MH0FJ1	N/A	1172	O3605-07	Intact
8	MH0FJ2	N/A	1231	O3605-08	Intact
9	MH0FJ3	N/A	1174	O3605-09	Intact
10	MH0FJ4	N/A	1176	O3605-10	Intact
11	MH0FJ5	N/A	1178	O3605-11	Intact
12	MH0FJ6	N/A	1188	O3605-12	Intact
13	MH0FJ6D	N/A	1188	O3605-13	Intact
14	MH0FJ6S	N/A	1188	O3605-14	Intact
15	MH0FJ7	N/A	1190	O3605-15	Intact
16	MH0FJ8	N/A	1192	O3605-16	Intact
17	MH0FJ9	N/A	1194	O3605-17	Intact
18	MH0FK0	N/A	1196	O3605-18	Intact
19	MH0FK1	N/A	1198	O3605-19	Intact
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	7/12/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0055**		
CASE NO.	**10816**	SDG NO.	**MH0FH1**
MA NO.		SOW NO.	**SFAM05.5**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	4	✓	
4 . CSF Inventory Sheet (DC-2)	5	7	✓	
5 . SDG Narrative	8	10	✓	
6 . Communication Logs	11	35	✓	
7 . Percent Solids Log	36	37	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	NA	NA	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	38	54	✓	
27. Instrument raw data by instrument in analysis order	55	57	✓	
Other Data				
28. Standard and Reagent Preparation Logs	58	84	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	85	86	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	87	91	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	92	92	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	93	94	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	95	95	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab) N. N. Pandya (Signature) | Nimisha Pandya, Document Control Officer (Print Name & Title) | 7/17/2023 (Date)

Audited by: (EPA) (Signature) | (Print Name & Title) | (Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0FH5
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3605

A. Number of Samples and Date of Receipt

17 Soil samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Hg.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**

Cooler: 19.1^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.

Issue 4: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 4: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with ICP-MS analysis for the dried soil samples and Hg analysis for the wet soil samples

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MH0FH5:

If C = 0.1871 ppb
Vf = 100 mL
W = 0.57 g
S = 0.837(83.7/100)
DF = 1

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

$$\text{Concentration (mg/kg)} = 0.1871 \times \frac{100}{0.57 \times 0.837} \times 1 / 1000$$

$$= 0.03921 \text{ mg/kg}$$

$$= 0.039 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Blank analyses did not indicate any presence of contamination. Spike sample did meet requirements. Duplicate sample did meet requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya

Name: Nimisha Pandya

Date 7/17/2023

Title: Document Control Officer

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

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T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 13, 2023 3:14 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please the updated resolution for Issue 1. A resolution for Issue 3 will be provided once it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with ICP-MS analysis for the dried soil samples and Hg analysis for the wet soil samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Sample MH0F82 for ICP-MS analysis is not listed on the revised COC. The laboratory is requesting an updated COC.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, July 12, 2023 3:51 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>

Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, the dried soils samples require ICP-MS and the wet soils require Hg as brought to our attention by Chemtech.

Matt, can you revise the COC for the missing sample, sign and send back to Samantha.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:07 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Can you please confirm if dried/prepped soil samples and wet soil samples should both be analyzed for ICP-MS and Hg, as the attached COC lists soil samples MH0F02 – MH0F88 for ICP-MS analysis and soil samples MH0FC4 – MH0FK1 for Hg analysis.

Also, please advise on the additional issue from CHM.

Issue 3: Sample MH0F82 for ICP-MS analysis is not listed on the revised COC. The laboratory is requesting an updated COC.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 2:08 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Also, sample MH0F82 is missing in new updated COC so please provide. This is for ICP-MS analysis.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 1:51 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; 'deepak@CHEMTECH.NET' <deepak@CHEMTECH.NET>
Cc: 'Goodrich.Donald@epa.gov' <Goodrich.Donald@epa.gov>; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

Hi Samantha,

Can you please confirm that the dried/prepped samples need to be analyzed for ICP-MS and Wet samples need to be analyzed for Hg?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152

General Number: (908)789-8900
Fax: (908)789-8922

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---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 1:38 PM
To: sohil@chemtech.net; deepak@CHEMTECH.NET
Cc: Goodrich.Donald@epa.gov; 'Moody, Brett' <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition | FINAL

Good afternoon,

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples is attached. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt MATT.LAFEMINA@tetratech.com
Sent: Wednesday, July 12, 2023 11:46 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com; Goodrich, Donald Goodrich.Donald@epa.gov
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Attached are the revised COC's signed. Thanks.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 12, 2023 7:24 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Don,

Following up on the updated COC request below.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356

Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Wednesday, July 12, 2023 9:21 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; 'Goodrich, Donald' <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Lab is still waiting for the final resolution. Lab would like to have start date once we receive the final resolution as Lab needs an updated COC and its been 15 days since we reported this issue and Lab has only 7 days left to finish these SDGs. This case is scheduled with 21 day TAT. Please note that we will submit with waiver request to extend the due date.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 4:25 PM

To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Matt, please do and use the original shipping date.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 2:23 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Will do. Would you like me to sign and relinquish this version? If so, should I use the original ship date?

Get Outlook for iOS

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, July 11, 2023 10:02:46 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Good afternoon,

Could you please provide the PDF copy of the updated COC? The laboratory will still need an updated PDF copy to include in their data package.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 11:35 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, can you check with the lab on this? Chemtech reached out for an update this morning.

Matt, thanks for letting me know.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Tuesday, July 11, 2023 9:30 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Don,

The revised COC's we're submitted to the SMO portal last week. Let me know if you need additional info from me. Thanks!

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, July 11, 2023 9:14:14 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt,

What is the status of getting us the revised COCs? The lab can't begin processing the samples until the revised COCs are submitted which can put the Hg holding times at risk.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald Goodrich.Donald@epa.gov
Sent: Tuesday, July 11, 2023 11:03 AM
To: Sosko, Samantha Samantha.Sosko@gdit.com
Cc: Johnson, Matthew Matthew.Johnson32@gdit.com; Bauer, Heather E Heather.Bauer@gdit.com; deepak@CHEMTECH.NET; Moody, Brett Moody.Brett@epa.gov; Britz, Helen Britz.Helen@epa.gov; Gambrah, Derrick Gambrah.Derrick@epa.gov
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha, I will reach out again to the field contractor for this information. The contractor has several new staff and are experiencing substantial growing pains and are new to the CLP processes.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Tuesday, July 11, 2023 7:28 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>; Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Lab is still waiting for the updated COC as per below resolution1.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 1:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1 and 2. A revised COC for issue 1 will be provided as soon as it is received.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.
Resolution 2: Per Region 8, please report 100% solids for the dried/prepped soil samples. Please note the issue in the SDG Narrative and proceed with analysis.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 12:32 PM
To: sohil@chemtech.net
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Sohil, the field contractor is working on generating new CLP IDs. The field contracting person who normally handles the Scribe/CLP process is out of the office and other contracting folks are working on this and will hopefully have this to you later today.

The lab may report 100% solids for the dried/prepped samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:37 AM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: Goodrich, Donald <Goodrich.Donald@epa.gov>; 'Johnson, Matthew' <Matthew.Johnson32@gdit.com>; 'Bauer, Heather E' <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; Moody, Brett <Moody.Brett@epa.gov>; Britz, Helen <Britz.Helen@epa.gov>; Gambrah, Derrick <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Samantha,

Is it possible to get new CLP IDs for fine dried/prepped samples? If we can get new IDs for dried/prepped samples then it will be very helpful for Lab.

Also, Please confirm that can lab report 100% solids for dried/prepped samples ?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 11:05 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Sohil,

A revised COC will be provided as soon as it is received from the Region.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Friday, July 7, 2023 8:38 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Yes – I have passed the information along to our data folks and will follow up right away to get an estimate on when those revisions can be sent to the lab.

My apologies for all the headaches that have been associated with this project thus far. The CLP process is fairly new to me and the person on our end who usually manages the Scribe and CLP process for us has been out so we've had some folks filling in and learning on the fly.

I appreciate everyone's patience and flexibility here.

Matt LaFemina | **Environmental Scientist**
Cell: **(845) 235-1844**
matt.lafemina@tetratech.com

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1560 Broadway St., Suite 1400 | Denver, CO 80202 | www.tetratech.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Friday, July 7, 2023 8:33 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

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Hi Matt, are you planning on getting out the revised COCs today? The lab is waiting to hear back from us before they can start working on the samples.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 10:59 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Hi Samantha,

Can we have the updated ROC today so we can start working as per below resolution?

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Friday, July 7, 2023 10:56 AM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good morning,

The laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
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Samantha.Sosko@gdit.com
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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Friday, July 7, 2023 9:57 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET; 'Moody, Brett' <Moody.Brett@epa.gov>; 'Britz, Helen' <Britz.Helen@epa.gov>; 'Gambrah, Derrick' <Gambrah.Derrick@epa.gov>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

[External: Use caution with links & attachments]

Good morning Samantha,

Thanks for your response and Lab would like to have start date for these SDGs from once we get the final resolution on below issues.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 5:02 PM
To: sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please see the below resolution for Issue 1. A resolution for Issue 2 will be provided along with the revised COCs.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.
Resolution 1: Per Region 8, an updated COC including separate CLP IDs for the wet sediment samples will be provided. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
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GENERAL DYNAMICS
information technology

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From: Goodrich, Donald
Sent: Thursday, July 6, 2023 3:28 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Just the COCs and Samantha can put together an official record of communication to the lab with the revised COC(s).
-dgg

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Thursday, July 6, 2023 3:27 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Gotcha. So do the COC's and labels need to be revised or just the COC? Since the jars are in the labs custody I can't revise any of the existing labels on the containers. Thoughts?

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Thursday, July 6, 2023 3:06:38 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Matt, the dried and wet soils need to have separate CLP IDs since the matrices are now different. Hopefully that makes sense.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Goodrich, Donald
Sent: Thursday, July 6, 2023 2:48 PM
To: LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Sosko, Samantha <Samantha.Sosko@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Hi Matt, can you revise the COC(s) and provide separate CLP IDs for the sediment samples (wet soils). I will take care of Issue 2 once the COC(s) are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 6, 2023 2:41 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Sample Condition

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: The laboratory received both fine dried/prepped and wet soil containers for the same sample ID for ICP-MS and Hg analysis. Please confirm how the laboratory should proceed with analysis of the samples.

Issue 2: For the same samples, the laboratory would like to-confirm how they should proceed with percent solids determination.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: sohil@chemtech.net <sohil@chemtech.net>
Sent: Thursday, July 6, 2023 11:17 AM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; deepak@CHEMTECH.NET
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Inappropriate/insufficient designation of laboratory QC | FINAL

[External: Use caution with links & attachments]

Hi Samantha,

Lab is working on the soil samples under this case and found below discrepancy,

Issue1: Lab has received ICP-MS soil samples with fine dried/prepped samples and for Mercury analysis, Lab has received wet samples therefore lab would like to confirm that how can lab proceed with the analysis of these samples?

Issue2: Since, lab has received two different sample matrix jars for each sample then how lab can proceed with percent solids analysis for these samples?

Please let us know as soon as possible.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
Direct Line: (908)728-3152
General Number: (908)789-8900
Fax: (908)789-8922

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CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/14/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 15:35
In Date: 07/13/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 07/14/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126427

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
O3605-01	MH0FH5	1	1.15	8.83	9.98	8.54	83.7	
O3605-02	MH0FH6	2	1.18	8.41	9.59	7.58	76.1	
O3605-03	MH0FH7	3	1.18	8.48	9.66	8.19	82.7	
O3605-04	MH0FH8	4	1.15	8.83	9.98	7.03	66.6	
O3605-05	MH0FH9	5	1.1	8.79	9.89	8.06	79.2	
O3605-06	MH0FJ0	6	1.19	8.51	9.7	8.02	80.3	
O3605-07	MH0FJ1	7	1.19	8.65	9.84	8.46	84.0	
O3605-08	MH0FJ2	8	1.16	8.49	9.65	8.89	91.0	
O3605-09	MH0FJ3	9	1.18	8.78	9.96	9.34	92.9	
O3605-10	MH0FJ4	10	1.19	8.55	9.74	7.62	75.2	
O3605-11	MH0FJ5	11	1.12	8.86	9.98	8.55	83.9	
O3605-12	MH0FJ6	12	1.16	8.57	9.73	7.38	72.6	
O3605-13	MH0FJ6D	13	1.16	8.57	9.73	7.38	72.6	
O3605-14	MH0FJ6S	14	1.16	8.57	9.73	7.38	72.6	
O3605-15	MH0FJ7	15	1.14	8.66	9.8	8.00	79.2	
O3605-16	MH0FJ8	16	1.18	8.80	9.98	8.15	79.2	
O3605-17	MH0FJ9	17	1.14	8.82	9.96	8.6	84.6	
O3605-18	MH0FK0	18	1.18	8.81	9.99	7.98	77.2	
O3605-19	MH0FK1	19	1.11	8.66	9.77	8.4	84.2	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

UB 126427

WORKLIST(Hardcopy Internal Chain)

WorkList Name : $1-O3605 **WorkList ID :** 171857 **Department :** Wet-Chemistry **Date :** 07-13-2023 11:00:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3605-01	MH0FH5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-02	MH0FH6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-03	MH0FH7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-04	MH0FH8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-05	MH0FH9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-06	MH0FJ0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-07	MH0FJ1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-08	MH0FJ2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-09	MH0FJ3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-10	MH0FJ4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3605-11	MH0FJ5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3605-12	MH0FJ6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-13	MH0FJ6D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-14	MH0FJ6S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-15	MH0FJ7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/12/2023	Chemtech -SO
O3605-16	MH0FJ8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3605-17	MH0FJ9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3605-18	MH0FK0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO
O3605-19	MH0FK1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/13/2023	Chemtech -SO

37

Date/Time 07-13-23 14:40
Raw Sample Received by: JD (WDC)
Raw Sample Relinquished by: CP Sm

Date/Time 07-13-23 15:40
Raw Sample Received by: CP Sm
Raw Sample Relinquished by: JD (WDC)

EPA SAMPLE NO.

MH0FH5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-01

% Solids: 83.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.039	J	07/14/2023	1528

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-02

% Solids: 76.1 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.046	J	07/14/2023	1530

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH7

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-03

% Solids: 82.7 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.063	J	07/14/2023	1533

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-04

% Solids: 66.6 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.082	J	07/14/2023	1535

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FH9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-05

% Solids: 79.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.091	J	07/14/2023	1537

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FJ0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-06

% Solids: 80.3 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.21		07/14/2023	1539

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FJ1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-07

% Solids: 84 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.050	J	07/14/2023	1542

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0Fux

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech ConsUlting GroUp Contract: 67HERHx0D0011

Lab Code: CHM Case No.: 20726 MA No. : SDG No.: MH0FH2

Matri(: SOIL Lab Sample ID: O3602-07

% Solids: 51 Date Received: 06/x8/x0x3

Analytical Method: Hg

Concentration µnits ,wg/L² mg/L² mg/kg dry)eight² wg² or wg/cmQz: mg/kg

CAS No.	Analyte	Concentration	4	Date Analy9ed	Time Analy9ed
8J35-58-6	MercUry	1.8		08/1J/x0x3	12JJ

NOTE: Hardness ,totalz is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FJ3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-09

% Solids: 92.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12		07/14/2023	1546

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FJ4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-10

% Solids: 75.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.074	J	07/14/2023	1548

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FJ5

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-11

% Solids: 83.9 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.028	J	07/14/2023	1555

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F86

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 65HERH90D0011

Lab Code: CHM Case No.: 20526 MA No. : SDG No.: MH0FH2

Matrix: SOIL Lab Sample ID: O3602-19

% Solids: 79.6 Date Received: 06/97/9093

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
743J-J7-6	Mercury	0.023	8	07/14/9093	1227

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F9J

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH70D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-15

% Solids: J2.7 Date Received: 06/7J/7073

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
J432-2J-6	Mercury	11	D	0J/14/7073	1J1J

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F78

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech ConsUlting GroUp Contract: 68HERHx0D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matri(: SOIL Lab Sample ID: O3605-16

% Solids: 2u.x Date Received: 06/x2/x0x3

Analytical Method: Hg

Concentration µnits ,wg/L² mg/L² mg/kg dry)eight² wg² or wg/cmQz: mg/kg

CAS No.	Analyte	Concentration	4	Date Analy9ed	Time Analy9ed
2J3u-u2-6	MercUry	0.053	7	02/1J/x0x3	1606

NOTE: Hardness ,totalz is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FJ9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-17

% Solids: 84.6 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.15		07/14/2023	1609

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FK0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-18

% Solids: 77.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20		07/14/2023	1611

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FK1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0FH5

Matrix: SOIL Lab Sample ID: O3605-19

% Solids: 84.2 Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.24		07/14/2023	1613

NOTE: Hardness (total) is reported in mg/L

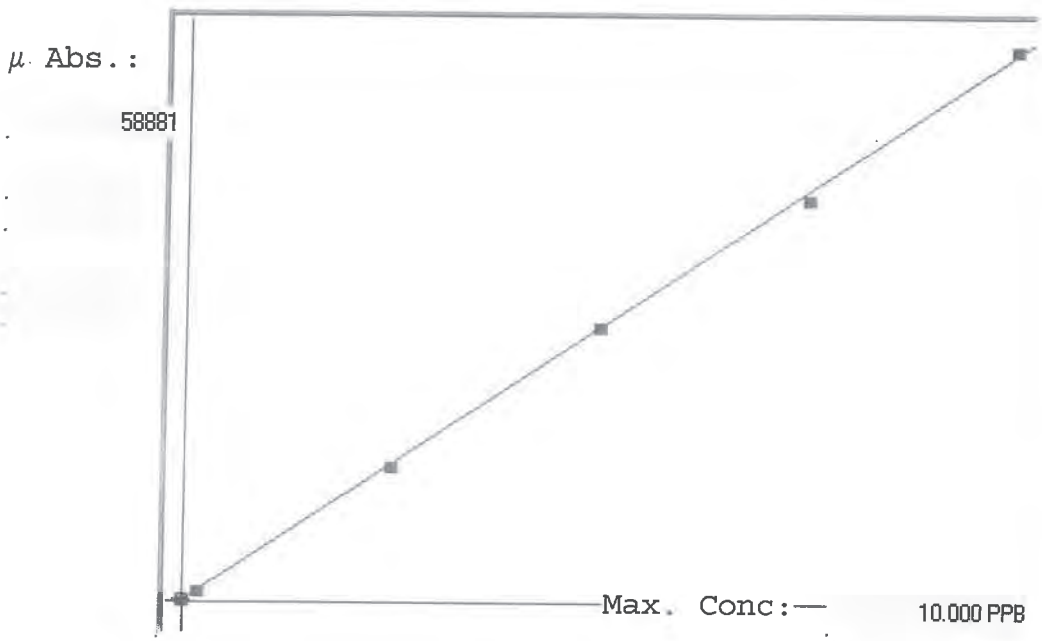
Comments:

Reviewed By:bin
On:7/15/2023 12:40:24 AM
Inst Id :CV1

LB126452

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.7170e-004 slope

C= -2.6024e-002 y-intercept

Rho= 0.9998367

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	% D
0.00	0.000	0.037	0.037	369	0.000	369					
0.05	0.050					302	0				-3
0.20	0.200	0.195	-0.005	1290	0.0 %	1290					-1
2.50	2.500	2.482	-0.018	14609	0.0 %	14609					-1
5.00	5.000	5.031	0.031	29453	0.0 %	29453					-2
7.50	7.500	7.370	-0.130	43074	0.0 %	43074					1
10.0	10.000	10.084	0.084	58881	0.0 %	58881					

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LB126452

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
	0 S0	369	-	0	SFAM01.1	PPB	7/14/2023 13:43	Std
	0.2 S01	1290	-	0.2	SFAM01.1	PPB	7/14/2023 13:45	Std
	2.5 S02	14609	-	2.5	SFAM01.1	PPB	7/14/2023 13:47	Std
	5 S03	29453	-	5	SFAM01.1	PPB	7/14/2023 13:49	Std
	7.5 S04	43074	-	7.5	SFAM01.1	PPB	7/14/2023 13:52	Std
	10 S05	58881	-	10	SFAM01.1	PPB	7/14/2023 13:54	Std
ICV071	ICV071	22917	3.9089	-	SFAM01.1	PPB	7/14/2023 13:59	SMPL
ICB071	ICB071	91	-0.0104	-	SFAM01.1	PPB	7/14/2023 14:02	SMPL
CCV040	CCV040	28988	4.9512	-	SFAM01.1	PPB	7/14/2023 14:04	SMPL
CCB040	CCB040	72	-0.0137	-	SFAM01.1	PPB	7/14/2023 14:06	SMPL
PB154006BL	PBS006	146	-0.001	-	SFAM01.1	PPB	7/14/2023 14:08	SMPL
O3450-01	MH0F01	480	0.0564	-	SFAM01.1	PPB	7/14/2023 14:11	SMPL
O3450-02	MH0F05	455	0.0521	-	SFAM01.1	PPB	7/14/2023 14:13	SMPL
O3450-03	MH0F06	231	0.0136	-	SFAM01.1	PPB	7/14/2023 14:15	SMPL
O3450-04	MH0F80	365	0.0366	-	SFAM01.1	PPB	7/14/2023 14:17	SMPL
O3450-05	MH0F80D	449	0.0511	-	SFAM01.1	PPB	7/14/2023 14:20	SMPL
O3450-06	MH0F80S	14008	2.3792	-	SFAM01.1	PPB	7/14/2023 14:22	SMPL
PB154209BL	PBS209	199	0.0081	-	SFAM01.1	PPB	7/14/2023 14:24	SMPL
O3583-01	EZZY9	1592	0.2473	-	SFAM01.1	PPB	7/14/2023 14:26	SMPL
O3583-02	EZZZ0	1299	0.197	-	SFAM01.1	PPB	7/14/2023 14:29	SMPL
O3583-03	EZZZ1	1246	0.1879	-	SFAM01.1	PPB	7/14/2023 14:31	SMPL
O3583-04	EZZZ2	1587	0.2465	-	SFAM01.1	PPB	7/14/2023 14:33	SMPL
O3583-05	EZZZ3	746	0.1021	-	SFAM01.1	PPB	7/14/2023 14:35	SMPL
O3583-06	EZZZ3D	865	0.1225	-	SFAM01.1	PPB	7/14/2023 14:40	SMPL
O3583-07	EZZZ3S	14432	2.452	-	SFAM01.1	PPB	7/14/2023 14:45	SMPL
PB154210BL	PBS210	346	0.0334	-	SFAM01.1	PPB	7/14/2023 14:47	SMPL
O3604-10	MH0FC4	947	0.1366	-	SFAM01.1	PPB	7/14/2023 14:50	SMPL
O3604-11	MH0FC4D	986	0.1433	-	SFAM01.1	PPB	7/14/2023 14:54	SMPL
O3604-13	MH0FG5	1164	0.1738	-	SFAM01.1	PPB	7/14/2023 14:59	SMPL
CCV041	CCV041	29201	4.9878	-	SFAM01.1	PPB	7/14/2023 15:01	SMPL
CCB041	CCB041	104	-0.0082	-	SFAM01.1	PPB	7/14/2023 15:03	SMPL
O3604-14	MH0FG6	2065	0.3285	-	SFAM01.1	PPB	7/14/2023 15:05	SMPL
O3604-15	MH0FG7	1446	0.2223	-	SFAM01.1	PPB	7/14/2023 15:08	SMPL
O3604-16	MH0FG8	1708	0.2672	-	SFAM01.1	PPB	7/14/2023 15:10	SMPL
O3604-17	MH0FG9	1800	0.283	-	SFAM01.1	PPB	7/14/2023 15:12	SMPL
O3604-18	MH0FH0	3647	0.6002	-	SFAM01.1	PPB	7/14/2023 15:14	SMPL
O3604-19	MH0FH1	9073	1.5318	-	SFAM01.1	PPB	7/14/2023 15:17	SMPL
O3604-20	MH0FH2	2766	0.4489	-	SFAM01.1	PPB	7/14/2023 15:19	SMPL
O3604-21	MH0FH3	1862	0.2937	-	SFAM01.1	PPB	7/14/2023 15:21	SMPL
O3604-22	MH0FH4	1178	0.1762	-	SFAM01.1	PPB	7/14/2023 15:23	SMPL
PB154211BL	PBS211	426	0.0471	-	SFAM01.1	PPB	7/14/2023 15:26	SMPL
O3605-01	MH0FH5	1241	0.1871	-	SFAM01.1	PPB	7/14/2023 15:28	SMPL
O3605-02	MH0FH6	1169	0.1747	-	SFAM01.1	PPB	7/14/2023 15:30	SMPL
O3605-03	MH0FH7	1833	0.2887	-	SFAM01.1	PPB	7/14/2023 15:33	SMPL
O3605-04	MH0FH8	1869	0.2949	-	SFAM01.1	PPB	7/14/2023 15:35	SMPL
O3605-05	MH0FH9	2506	0.4043	-	SFAM01.1	PPB	7/14/2023 15:37	SMPL

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O3605-06	MH0FJ0	6101	1.0215	-	SFAM01.1	PPB	7/14/2023 15:39	SMPL
O3605-07	MH0FJ1	1545	0.2393	-	SFAM01.1	PPB	7/14/2023 15:42	SMPL
O3605-08	MH0FJ2	51757	8.8607	-	SFAM01.1	PPB	7/14/2023 15:44	SMPL
O3605-09	MH0FJ3	3647	0.6002	-	SFAM01.1	PPB	7/14/2023 15:46	SMPL
O3605-10	MH0FJ4	2087	0.3323	-	SFAM01.1	PPB	7/14/2023 15:48	SMPL
CCV042	CCV042	29483	5.0362	-	SFAM01.1	PPB	7/14/2023 15:51	SMPL
CCB042	CCB042	314	0.0279	-	SFAM01.1	PPB	7/14/2023 15:53	SMPL
O3605-11	MH0FJ5	843	0.1187	-	SFAM01.1	PPB	7/14/2023 15:55	SMPL
O3605-12	MH0FJ6	1357	0.207	-	SFAM01.1	PPB	7/14/2023 15:57	SMPL
O3605-13	MH0FJ6D	1272	0.1924	-	SFAM01.1	PPB	7/14/2023 16:00	SMPL
O3605-14	MH0FJ6S	15773	2.6822	-	SFAM01.1	PPB	7/14/2023 16:02	SMPL
O3605-15	MH0FJ7	231020	39.6404	-	SFAM01.1	PPB	7/14/2023 16:04	SMPL
O3605-16	MH0FJ8	1480	0.2281	-	SFAM01.1	PPB	7/14/2023 16:06	SMPL
O3605-17	MH0FJ9	4620	0.7672	-	SFAM01.1	PPB	7/14/2023 16:09	SMPL
O3605-18	MH0FK0	5245	0.8745	-	SFAM01.1	PPB	7/14/2023 16:11	SMPL
O3605-19	MH0FK1	7175	1.2059	-	SFAM01.1	PPB	7/14/2023 16:13	SMPL
PB154212BL	PBS212	154	0.0004	-	SFAM01.1	PPB	7/14/2023 16:15	SMPL
O3511-03	A46Q2	394	0.0416	-	SFAM01.1	PPB	7/14/2023 16:18	SMPL
O3511-04	A46Q2D	359	0.0356	-	SFAM01.1	PPB	7/14/2023 16:20	SMPL
O3511-05	A46Q2S	15823	2.6908	-	SFAM01.1	PPB	7/14/2023 16:25	SMPL
O3511-06	A46S7	4936	0.8215	-	SFAM01.1	PPB	7/14/2023 16:27	SMPL
O3511-07	A46T0	2215	0.3543	-	SFAM01.1	PPB	7/14/2023 16:30	SMPL
O3511-08	A46T6	19297	3.2873	-	SFAM01.1	PPB	7/14/2023 16:32	SMPL
O3511-09	A46T7	15074	2.5622	-	SFAM01.1	PPB	7/14/2023 16:34	SMPL
O3511-10	A46T8	5359	0.8941	-	SFAM01.1	PPB	7/14/2023 16:36	SMPL
O3511-11	A46T9	3881	0.6403	-	SFAM01.1	PPB	7/14/2023 16:39	SMPL
O3511-12	A46W0	8056	1.3572	-	SFAM01.1	PPB	7/14/2023 16:41	SMPL
CCV043	CCV043	29704	5.0742	-	SFAM01.1	PPB	7/14/2023 16:43	SMPL
CCB043	CCB043	329	0.0305	-	SFAM01.1	PPB	7/14/2023 16:45	SMPL
O3511-13	A46W4	29394	5.021	-	SFAM01.1	PPB	7/14/2023 16:48	SMPL
O3511-14	A46W1	18529	3.1554	-	SFAM01.1	PPB	7/14/2023 16:50	SMPL
O3511-15	A46W2	18162	3.0924	-	SFAM01.1	PPB	7/14/2023 16:52	SMPL
O3511-16	A46W5	8565	1.4446	-	SFAM01.1	PPB	7/14/2023 16:54	SMPL
O3511-17	A46W6	199	0.0081	-	SFAM01.1	PPB	7/14/2023 16:57	SMPL
O3511-18	A46W7	626	0.0815	-	SFAM01.1	PPB	7/14/2023 16:59	SMPL
O3511-19	A46W8	2011	0.3193	-	SFAM01.1	PPB	7/14/2023 17:01	SMPL
O3511-20	A46W3	30621	5.2316	-	SFAM01.1	PPB	7/14/2023 17:04	SMPL
O3511-21	A46W9	2010	0.3191	-	SFAM01.1	PPB	7/14/2023 17:06	SMPL
O3511-22	A46X3	25510	4.3541	-	SFAM01.1	PPB	7/14/2023 17:08	SMPL
O3511-23	A46X4	23773	4.0558	-	SFAM01.1	PPB	7/14/2023 17:10	SMPL
O3511-24	A46X5	21154	3.6061	-	SFAM01.1	PPB	7/14/2023 17:13	SMPL
O3604-12	MH0FC4S	15714	2.6721	-	SFAM01.1	PPB	7/14/2023 17:15	SMPL
O3605-15DLX10	MH0FJ7	25284	4.3153	-	SFAM01.1	PPB	7/14/2023 17:17	SMPL
CCV044	CCV044	29708	5.0749	-	SFAM01.1	PPB	7/14/2023 17:22	SMPL
CCB044	CCB044	332	0.031	-	SFAM01.1	PPB	7/14/2023 17:25	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : O329M

Test : e r cuycP

Prepbatch ID : B15M, L556

Sequence ID/Qc Batch ID: 015L2, ML6

Standard ID :
e B7M8876e B7M8886e B72L846e B72L886e B723996e B723956e B7239L6e B723936e B7239, 6e B7239M6e B723926e B723976e B723946e B723556e B7235L6

Chemical ID :
e , 3756e , , M86e , 8526e , 8L96e M92L6e MML46e M2926e M2986WL2926

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP75997	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP75999	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4459 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76298	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 1.00000ml of M5609 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP76299	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP76300	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.30000ml of W2606 + 0.20000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP76301	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 245.00000ml of W2606 + 2.50000ml of MP76298 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP76302	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 242.50000ml of W2606 + 5.00000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP76303	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 240.00000ml of W2606 + 7.50000ml of MP76298 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76304	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 237.50000ml of W2606 + 10.00000ml of MP76298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP76305	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5609 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76306	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 2.50000ml of M5609 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76307	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5609 + 10.00000ml of MP76298 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76308	07/14/2023	07/15/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/15/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5609 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP76311	07/14/2023	07/15/2023	Mohan Bera	None	None	Sarabjit Jaswal 07/15/2023

FROM 150.00000ml of M5606 + 50.00000ml of M5609 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP76312	07/14/2023	07/15/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/15/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5606 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/11/2024	07/10/2023 / Al-Terek	01/13/2023 / Al-Terek	M5609

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4917 - 20
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

INORGANIC VENTURES
Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M5528-32
MB

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Nitric Acid
CMOS

M5609 M5610
M5611 M5612

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154211

SOP ID : M7471B-Mercury-17, MSFAM01.1-Mercury in Soil-2

SDG No : MH0FH5

Start Digest Date: 07/14/2023 **Time :** 10:40 **Temp :** 95 °C

Matrix : SOIL

End Digest Date: 07/14/2023 **Time :** 11:10 **Temp :** 94 °C

Pippete ID: HG A

Digestion tube ID: M5593

Balance ID : M SC-3

Block thermometer ID: HG-DIG#2

Filter paper ID : NA

Dig Technician Signature: MB

pH Strip ID : NA

Supervisor Signature:

Hood ID : #1

Block ID: **1.** HG HOT BLOCK#2 **2.** N/A

Temp : **1.** 95°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP76305
CCV	100mL	MP76307
Matrix Spike	1.0mL	MP76298
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP76311
KMnO4	15.0mL	MP75997
Hydroxylamine HCL	6.0mL	MP75999
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP76299
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP76300
2.5 ppb	S2.5	100mL	MP76301
5.0 ppb	S5.0	100mL	MP76302
7.5 ppb	S7.5	100mL	MP76303
10.0 ppb	S10.0	100mL	MP76304
ICV	ICV	100mL	MP76305
ICB	ICB	100mL	MP76306
CCV	CCV	100mL	MP76307
CCB	CCB	100mL	MP76308
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/14/23 @ 11:50	MB - Dig. Lab	MB - Metal Lab
	Preparation Group	Analysis Group

CHEMTECH

Soil/Sludge Mercury Preparation Sheet

PB154211

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
O3605-01	MH0FH5	0.57	100	NA	N/A	2-14
O3605-02	MH0FH6	0.50	100	NA	N/A	15
O3605-03	MH0FH7	0.55	100	NA	N/A	16
O3605-04	MH0FH8	0.54	100	NA	N/A	17
O3605-05	MH0FH9	0.56	100	NA	N/A	18
O3605-06	MH0FJ0	0.60	100	NA	N/A	19
O3605-07	MH0FJ1	0.57	100	NA	N/A	20
O3605-08	MH0FJ2	0.58	100	NA	N/A	21
O3605-09	MH0FJ3	0.52	100	NA	N/A	22
O3605-10	MH0FJ4	0.60	100	NA	N/A	23
O3605-11	MH0FJ5	0.51	100	NA	N/A	24
O3605-12	MH0FJ6	0.54	100	NA	N/A	25
O3605-13	MH0FJ6D	0.55	100	NA	N/A	26
O3605-14	MH0FJ6S	0.58	100	NA	MP76298	27
O3605-15	MH0FJ7	0.50	100	NA	N/A	28
O3605-16	MH0FJ8	0.54	100	NA	N/A	29
O3605-17	MH0FJ9	0.60	100	NA	N/A	30
O3605-18	MH0FK0	0.56	100	NA	N/A	31
O3605-19	MH0FK1	0.60	100	NA	N/A	32
PB154211BL	PBS211	0.50	100	NA	N/A	33

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/14/23 13:43		mohan	OK
2	S0.2	S01	CAL2	07/14/23 13:45		mohan	OK
3	S2.5	S02	CAL3	07/14/23 13:47		mohan	OK
4	S5	S03	CAL4	07/14/23 13:49		mohan	OK
5	S7.5	S04	CAL5	07/14/23 13:52		mohan	OK
6	S10	S05	CAL6	07/14/23 13:54		mohan	OK
7	ICV071	ICV071	ICV	07/14/23 13:59		mohan	OK
8	ICB071	ICB071	ICB	07/14/23 14:02		mohan	OK
9	CCV040	CCV040	CCV	07/14/23 14:04		mohan	OK
10	CCB040	CCB040	CCB	07/14/23 14:06		mohan	OK
11	PB154006BL	PBS006	MB	07/14/23 14:08		mohan	OK
12	O3450-01	MH0F01	SAM	07/14/23 14:11		mohan	OK
13	O3450-02	MH0F05	SAM	07/14/23 14:13		mohan	OK
14	O3450-03	MH0F06	SAM	07/14/23 14:15		mohan	OK
15	O3450-04	MH0F80	SAM	07/14/23 14:17		mohan	OK
16	O3450-05	MH0F80D	DUP	07/14/23 14:20		mohan	OK
17	O3450-06	MH0F80S	MS	07/14/23 14:22		mohan	OK
18	PB154209BL	PBS209	MB	07/14/23 14:24		mohan	OK
19	O3583-01	EZZY9	SAM	07/14/23 14:26		mohan	OK
20	O3583-02	EZZZ0	SAM	07/14/23 14:29		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

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ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

21	O3583-03	EZZZ1	SAM	07/14/23 14:31		mohan	OK
22	O3583-04	EZZZ2	SAM	07/14/23 14:33		mohan	OK
23	O3583-05	EZZZ3	SAM	07/14/23 14:35		mohan	OK
24	O3583-06	EZZZ3D	DUP	07/14/23 14:40		mohan	OK
25	O3583-07	EZZZ3S	MS	07/14/23 14:45		mohan	OK
26	PB154210BL	PBS210	MB	07/14/23 14:47		mohan	OK
27	O3604-10	MH0FC4	SAM	07/14/23 14:50		mohan	OK
28	O3604-11	MH0FC4D	DUP	07/14/23 14:54		mohan	OK
29	O3604-13	MH0FG5	SAM	07/14/23 14:59		mohan	OK
30	CCV041	CCV041	CCV	07/14/23 15:01		mohan	OK
31	CCB041	CCB041	CCB	07/14/23 15:03		mohan	OK
32	O3604-14	MH0FG6	SAM	07/14/23 15:05		mohan	OK
33	O3604-15	MH0FG7	SAM	07/14/23 15:08		mohan	OK
34	O3604-16	MH0FG8	SAM	07/14/23 15:10		mohan	OK
35	O3604-17	MH0FG9	SAM	07/14/23 15:12		mohan	OK
36	O3604-18	MH0FH0	SAM	07/14/23 15:14		mohan	OK
37	O3604-19	MH0FH1	SAM	07/14/23 15:17		mohan	OK
38	O3604-20	MH0FH2	SAM	07/14/23 15:19		mohan	OK
39	O3604-21	MH0FH3	SAM	07/14/23 15:21		mohan	OK
40	O3604-22	MH0FH4	SAM	07/14/23 15:23		mohan	OK
41	PB154211BL	PBS211	MB	07/14/23 15:26		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

42	O3605-01	MH0FH5	SAM	07/14/23 15:28		mohan	OK
43	O3605-02	MH0FH6	SAM	07/14/23 15:30		mohan	OK
44	O3605-03	MH0FH7	SAM	07/14/23 15:33		mohan	OK
45	O3605-04	MH0FH8	SAM	07/14/23 15:35		mohan	OK
46	O3605-05	MH0FH9	SAM	07/14/23 15:37		mohan	OK
47	O3605-06	MH0FJ0	SAM	07/14/23 15:39		mohan	OK
48	O3605-07	MH0FJ1	SAM	07/14/23 15:42		mohan	OK
49	O3605-08	MH0FJ2	SAM	07/14/23 15:44		mohan	OK
50	O3605-09	MH0FJ3	SAM	07/14/23 15:46		mohan	OK
51	O3605-10	MH0FJ4	SAM	07/14/23 15:48		mohan	OK
52	CCV042	CCV042	CCV	07/14/23 15:51		mohan	OK
53	CCB042	CCB042	CCB	07/14/23 15:53		mohan	OK
54	O3605-11	MH0FJ5	SAM	07/14/23 15:55		mohan	OK
55	O3605-12	MH0FJ6	SAM	07/14/23 15:57		mohan	OK
56	O3605-13	MH0FJ6D	DUP	07/14/23 16:00		mohan	OK
57	O3605-14	MH0FJ6S	MS	07/14/23 16:02		mohan	OK
58	O3605-15	MH0FJ7	SAM	07/14/23 16:04	Hg High	mohan	Dilution
59	O3605-16	MH0FJ8	SAM	07/14/23 16:06		mohan	OK
60	O3605-17	MH0FJ9	SAM	07/14/23 16:09		mohan	OK
61	O3605-18	MH0FK0	SAM	07/14/23 16:11		mohan	OK
62	O3605-19	MH0FK1	SAM	07/14/23 16:13		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

63	PB154212BL	PBS212	MB	07/14/23 16:15		mohan	OK
64	O3511-03	A46Q2	SAM	07/14/23 16:18		mohan	OK
65	O3511-04	A46Q2D	DUP	07/14/23 16:20		mohan	OK
66	O3511-05	A46Q2S	MS	07/14/23 16:25		mohan	OK
67	O3511-06	A46S7	SAM	07/14/23 16:27		mohan	OK
68	O3511-07	A46T0	SAM	07/14/23 16:30		mohan	OK
69	O3511-08	A46T6	SAM	07/14/23 16:32		mohan	OK
70	O3511-09	A46T7	SAM	07/14/23 16:34		mohan	OK
71	O3511-10	A46T8	SAM	07/14/23 16:36		mohan	OK
72	O3511-11	A46T9	SAM	07/14/23 16:39		mohan	OK
73	O3511-12	A46W0	SAM	07/14/23 16:41		mohan	OK
74	CCV043	CCV043	CCV	07/14/23 16:43		mohan	OK
75	CCB043	CCB043	CCB	07/14/23 16:45		mohan	OK
76	O3511-13	A46W4	SAM	07/14/23 16:48		mohan	OK
77	O3511-14	A46W1	SAM	07/14/23 16:50		mohan	OK
78	O3511-15	A46W2	SAM	07/14/23 16:52		mohan	OK
79	O3511-16	A46W5	SAM	07/14/23 16:54		mohan	OK
80	O3511-17	A46W6	SAM	07/14/23 16:57		mohan	OK
81	O3511-18	A46W7	SAM	07/14/23 16:59		mohan	OK
82	O3511-19	A46W8	SAM	07/14/23 17:01		mohan	OK
83	O3511-20	A46W3	SAM	07/14/23 17:04		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126452

Review By	Sarabjit Jaswal	Review On	7/15/2023 12:39:36 AM
Supervise By	Bin He	Supervise On	7/15/2023 12:40:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP76299,MP76300,MP76301,MP76302,MP76303,MP76304
ICV Standard	MP76305
CCV Standard	MP76307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76306,MP76308,MP76312

84	O3511-21	A46W9	SAM	07/14/23 17:06		mohan	OK
85	O3511-22	A46X3	SAM	07/14/23 17:08		mohan	OK
86	O3511-23	A46X4	SAM	07/14/23 17:10		mohan	OK
87	O3511-24	A46X5	SAM	07/14/23 17:13		mohan	OK
88	O3604-12	MH0FC4S	MS	07/14/23 17:15		mohan	OK
89	O3605-15DL	MH0FJ7	SAM	07/14/23 17:17	10X for Hg	mohan	Confirms
90	CCV044	CCV044	CCV	07/14/23 17:22		mohan	OK
91	CCB044	CCB044	CCB	07/14/23 17:25		mohan	OK

ORIGIN ID:DENN (845) 235-1844
MATT LAFEMINA
1560 BROADWAY STE 1400
DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 50.40 LB
CAD: 6754017/SSF02422
DIMS: 24x14x14 IN
BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092

6/27/23
13:30
19:1

FedEx Express

TUE - 27 JUN 4:30P
** 2DAY **

MPS# 7802 8789 1560
Mstr# 7802 8789 1515
0201

07092
NJ-US EWR

TE KBCA

Copy
Original Document Not Inspected

Signature

6/27/23
Date

Part # 156287-446-PRINTED-REG 0524

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3605	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	7/13/2023 9:40:47 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3605-01	MH0FH5	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-02	MH0FH6	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-03	MH0FH7	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-04	MH0FH8	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-05	MH0FH9	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-06	MH0FJ0	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-07	MH0FJ1	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-08	MH0FJ2	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-09	MH0FJ3	Solid	06/12/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-10	MH0FJ4	Solid	06/13/2023						
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids		Chemtech -SOP	15	07/18/2023	07/18/2023

O3605-11	MH0FJ5	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-12	MH0FJ6	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-13	MH0FJ6D	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-14	MH0FJ6S	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-15	MH0FJ7	Solid	06/12/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-16	MH0FJ8	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-17	MH0FJ9	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-18	MH0FK0	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023
O3605-19	MH0FK1	Solid	06/13/2023					
				Mercury	SFAM_HG	15	07/18/2023	07/18/2023
				Percent Solids	Chemtech -SOP	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3605_HgS **WorkList ID :** 171862 **Department :** Digestion **Date :** 07-13-2023 17:03:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3605-01	MH0FH5	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-02	MH0FH6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-03	MH0FH7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-04	MH0FH8	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-05	MH0FH9	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-06	MH0FJ0	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-07	MH0FJ1	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-08	MH0FJ2	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-09	MH0FJ3	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-10	MH0FJ4	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3605-11	MH0FJ5	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3605-12	MH0FJ6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-13	MH0FJ6D	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-14	MH0FJ6S	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-15	MH0FJ7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/12/2023	SFAM_HG
O3605-16	MH0FJ8	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3605-17	MH0FJ9	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3605-18	MH0FK0	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG
O3605-19	MH0FK1	Solid	Mercury	Cool 4 deg C	USEP01	Q11	06/13/2023	SFAM_HG

95

Date/Time 7/14/23 @ 10:15

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 7/14/23 @ 10:55

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: 24HERH75D55FF

Lab Code: CHM Case No.: 35432 MA No.: 0FF1.5 SDG No.: MH5862

SOW No. : S8AM5F.F

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MH5862	O0371-5F		X	X	
MH5869	O0371-57		X	X	
MH5869D	O0371-50		X	X	
MH5869S	O0371-51		X	X	
MH5864	O0371-53		X	X	
MH5866	O0371-52		X	X	
MH58A5	O0371-59		X	X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG 8ile and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: N. N. Pandya Name: APPROVED

By Nimisha Pandya QA/QC Supervisor at 9:24 am, Jul 18, 2023

Date: 7/18/2023 Title:

68HERH20D0011 SDG # MH0F96

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-132923-0001

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SD-08	MH0F01	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1004, 1005 (2)	8	06/13/2023 15:22	
HWY-SD-06	MH0F05	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1020, 1021 (2)	06B	06/13/2023 16:20	
HWY-SD-09	MH0F06	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1024, 1025 (2)	9	06/13/2023 14:21	
HWY-SD-08-DUP	MH0F80	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1214, 1215 (2)	8	06/13/2023 15:22	
HWY-SW-06	MH0F91	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21)	1236 (HNO3), 1237 (HNO3), 1238 (HNO3) (3)	06B	06/13/2023 16:15	
HWY-SW-08-DUP	MH0F92	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21)	1239 (HNO3), 1240 (HNO3), 1241 (HNO3) (3)	8	06/13/2023 15:18	
HWY-SW-08	MH0F93	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21)	1242 (HNO3), 1243 (HNO3), 1244 (HNO3) (3)	8	06/13/2023 15:16	
HWY-SW-09	MH0F94	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21)	1245 (HNO3), 1246 (HNO3), 1247 (HNO3) (3)	9	06/13/2023 14:14	
HWY-SW-FB-1	MH0F95	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21)	1248 (HNO3), 1249 (HNO3), 1250 (HNO3) (3)	Field QC	06/13/2023 16:35	
HWY-SW-06	MH0F96	Water/ Davis_Brandi	Grab	ICP-MS-D(21)	1251 (HNO3) (1)	06B	06/13/2023 16:15	

Sample(s) to be used for Lab QC: HWY-SW-FB-1 Tag 1248, HWY-SW-FB-1 Tag 1249, HWY-SW-FB-1 Tag 1250

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury, Hardness=CLP Hardness, ICP-MS-D=CLP ICP-MS Metals (Dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
			Deepak	6/27/23	18.3°
				13:30	IRecorrect 1
					xlo Tag blank

USEPA CLP COC (LAB COPY)

DateShipped: 6/23/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-132923-0001

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SW-08	MH0F97	Water/ Davis_Brandi	Grab	ICP-MS-D(21)	1252 (HNO3) (1)	8	06/13/2023 15:16	
HWY-SW-08-DUP	MH0F98	Water/ Davis_Brandi	Grab	ICP-MS-D(21)	1253 (HNO3) (1)	8	06/13/2023 15:18	
HWY-SW-09	MH0F99	Water/ Davis_Brandi	Grab	ICP-MS-D(21)	1254 (HNO3) (1)	9	06/13/2023 14:14	
HWY-SW-FB-1	MH0FA0	Water/ Davis_Brandi	Grab	ICP-MS-D(21)	1255 (HNO3) (1)	Field QC	06/13/2023 16:35	

Sample(s) to be used for Lab QC: HWY-SW-FB-1 Tag 1255

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury, Hardness=CLP Hardness, ICP-MS-D=CLP ICP-MS Metals (Dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
			Deegan	6/27/23 13:30	18.5°

USEPA CLP COC (LAB COPY)
DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-132923-0001
Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

4

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SD-08	MH0F01	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1004, 1005 (2)	8	06/13/2023 15:22	
HWY-SD-06	MH0F05	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1020, 1021 (2)	06B	06/13/2023 16:20	
HWY-SD-09	MH0F06	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1024, 1025 (2)	9	06/13/2023 14:21	
HWY-SD-08-DUP	MH0F80	Sediment/ Davis_Brandi	Composite	ICP-MS(21), Hg(21)	1214, 1215 (2)	8	06/13/2023 15:22	✓
HWY-SW-06	MH0F91	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1236 (HNO3), 1237 (HNO3), 1238 (HNO3), 1251 (HNO3) (4)	06B	06/13/2023 16:15	
HWY-SW-08-DUP	MH0F92	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1239 (HNO3), 1240 (HNO3), 1241 (HNO3), 1253 (HNO3) (4)	8	06/13/2023 15:18	
HWY-SW-08	MH0F93	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1242 (HNO3), 1243 (HNO3), 1244 (HNO3), 1252 (HNO3) (4)	8	06/13/2023 15:16	MS/MSD
HWY-SW-09	MH0F94	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1245 (HNO3), 1246 (HNO3), 1247 (HNO3), 1254 (HNO3) (4)	9	06/13/2023 14:14	

Sample(s) to be used for Lab QC: HWY-SW-FB-1 Tag 1248, HWY-SW-FB-1 Tag 1249, HWY-SW-FB-1 Tag 1250, HWY-SW-FB-1 Tag 1255 Dissolved Metals SW samples filtered in field. use extra volume of HWY-SW-08 for MS/MSD.	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury, Hardness=CLP Hardness, ICP-MS-D=CLP ICP-MS Metals (Dissolved)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TT	6/23/23 1700		13:30 6/27/23	TR-Gun #1 18.3-C
					Custody Seal Intact
		Copy			No temp Blank

Original Documents are included in CSF MH0F-01

Signature

6/27/23

Date

USEPA CLP COC (LAB COPY)

DateShipped: 6/20/2023
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Case #: 50856
Cooler #:

No: 8-061523-132923-0001

Lab: Chemtech Consulting Grp
Lab Contact: Emanuel Hedvat
Lab Phone: 908-789-8900

5

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
HWY-SW-FB-1	MH0F95	Water/ Davis_Brandi	Grab	ICP-MS(21), Hg(21), Hardness(21), ICP-MS-D(21)	1248 (HNO3), 1249 (HNO3), 1250 (HNO3), 1255 (HNO3) (4)	Field QC	06/13/2023 16:35	
HWY-SS-EB-1	MH0F89	water/ Davis_Brandi	Grab	ICP-MS (21), Hg (21)	1233 (HNO_3), 1232 (HNO_3)	33	6/13/2023 08:07	
HWY-SS-EB-2	MH0F90	water/ Davis_Brandi	Grab	ICP-MS (21), Hg (21)	1235 (HNO_3), 1234 (HNO_3)	3	6/13/2023 08:07	

Sample(s) to be used for Lab QC: HWY-SW-FB-1 Tag 1255

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-MS=CLP ICP-MS Metals (Total), Hg=CLP Mercury, Hardness=CLP Hardness, ICP-MS-D=CLP ICP-MS Metals (Dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[signature] TT	6/23/23 1700	[signature]	13:30 6/27/23	IR-Gun# (18.3°C
					Custody Seal Intact
					No temp Blank

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page 1 of 1
Received By (Print Name) Cassandra Reis		Log-in Date **6/27/2023**
Received By (Signature)		
Case Number 50856	SDG No. MH0F96	MA No. 3114.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	780287891526 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	18.3 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/27/2023
12.Time Received	13:30

	EPA Sample #	Aqueous Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MH0F96	1.3	1251	O3524-01	Intact
2	MH0F97	1.3	1252	O3524-02	Intact
3	MH0F97D	1.3	1252	O3524-03	Intact
4	MH0F97S	1.3	1252	O3524-04	Intact
5	MH0F98	1.3	1253	O3524-05	Intact
6	MH0F99	1.3	1254	O3524-06	Intact
7	MH0FA0	1.3	1255	O3524-07	Intact
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	6/27/23	Logbook Page No.	N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	**CHEMTECH CONSULTING GROUP**		
LAB CODE	**CHM**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**50856**	SDG NO.	**MH0F96**
MA NO.	**3114.0**	SOW NO.	**SFAM01.1**

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	5	✓	
3 . Sample Log-In Sheet (DC-1)	6	6	✓	
4 . CSF Inventory Sheet (DC-2)	7	9	✓	
5 . SDG Narrative	10	15	✓	
6 . Communication Logs	16	24	✓	
7 . Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
15 . Raw GPC Data	NA	NA	✓	
16 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	25	29	✓	
18 . Instrument raw data by instrument in analysis order	30	231	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	232	370	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	371	372	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	373	376	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	377	381	✓	
27. Instrument raw data by instrument in analysis order	382	383	✓	
Other Data				
28. Standard and Reagent Preparation Logs	384	413	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	414	415	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	416	417	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	418	418	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	419	419	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	420	421	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)	N. N. Pandya (Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	7/18/2023 (Date)
Audited by: (EPA)	(Signature)	(Print Name & Title)	(Date)

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MH0F96
CASE # 50856
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: CHEMTECH CONSULTING GROUP
LAB CODE: CHM
CHEMTECH PROJECT #O3524
MODIFIED ANALYSIS#3114.0

A. Number of Samples and Date of Receipt

05 Water samples were delivered to the laboratory intact on 06/27/2023.

B. Parameters

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Hardness Total & Hg.

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**

Cooler: 18.3^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2 : The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3 : Air bill numbers are missing on all COCs.

Issue 4: Hardness analysis is scheduled only for filtered ICP-MS Metals samples but the COC lists Hardness analysis for Total Metals only. Please confirm how the laboratory should proceed with analysis.

Issue 5: Relinquished information is missing on all COCs.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Resolution 4: Per Region 8, Hardness is only required for filtered ICP-MS Metals samples. An updated COC will be provided. Please note the issue in the SDG Narrative and proceed with analysis as scheduled.

Resolution 5: Per Region 8, an updated COC will be provided. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

***Calculation for ICP-MS Water Sample*:**

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation for Sample MH0F96 for Arsenic:

If C = 0.19 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result } (\mu g/L) = 0.19 \times \frac{50}{50} \times 1$$

$$= 0.19\ \mu g/L$$

$$= 0.19\ \mu g/L \text{(Reported Result with Signification)}$$

Calculation for Hg Water Sample:

Concentration or Result (μg/L) = C x DF

Where,

C = Instrument response in μg/L from the calibration curve.
DF = Dilution Factor

Example Calculation :

If C = 7.7935 ppb
DF = 1

Concentration or Result (μg/L) = 7.7935 x 1

= 7.7935 μg/L

= 7.8 μg/L (Reported Result with Signification)

H. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature N. N. Pandya Name: Nimisha Pandya

Date 7/18/2023 Title: Document Control Officer

Date: 08/17/2021	**MA:** 3114.0	**Title:** ICP-MS Analysis with Hardness
Method Source: SFAM01.1	**Method:** ICP-MS	
Matrix: Aqueous/Water		

Summary of Modification

The purpose of this modified analysis is to analyze aqueous/water samples by ICP-MS with the additional calculated analyte Hardness. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications **Not applicable** ☐

Analyte	CAS Number	CRQL (mg/L)
Hardness (total)	Hardness	3.3

II. Calibration and QC Requirements **Not applicable** ☒

III. Preparation and Method Modifications **Not applicable** ☒

IV. Special Reporting Requirements **Not applicable** ☐

The Laboratory shall:

- Report Hardness (total) in units of mg/L on Form 1, calculated from the calcium and magnesium results using Equation 4F in Exhibit G, Section 3.2.
- Report the reported results for Hardness (total) in the EDD with AnalyteType = “Derived” and ClientAnalyteID = “Hardness” for the field samples, field blanks, and PT samples only.
- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the resolution or corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses and/or re-preparations performed, and problems with the analysis of samples. Also, include a discussion of any SOW Modified Analyses, including a copy of the approved modification form with the SDG Narrative.
- Report the “J” and “U” qualifiers in accordance with the requirements in Exhibit B, Section 3.4.3.2.4.2, using the modified CRQL.

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Monday, July 03, 2023 4:47 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net; mohammad@chemtech.net
Cc: Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Deepak,

We are still waiting on the new sample IDs from the Region on Issue 1. We will provide the information as soon as it is available. Please see the below resolutions for Issues 2 and 3.

Issue 1: Total ICP-MS 11+ Metals and filtered ICP-MS 11+ Metals are listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.
Resolution 2: Per Region 8, please note the issue in the SDG Narrative and proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Monday, July 3, 2023 3:52 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport

<DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

just to follow up on the below email

Regards,

Deepak Parmar
QA/QC

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Monday, July 3, 2023 9:52 AM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Sosko, Samantha <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, what is the status on this? The CLP lab can't begin processing the samples until the COCs are revised.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Sent: Wednesday, June 28, 2023 12:57 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>
Cc: Samantha.Sosko@gdit.com; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E

<Heather.Bauer@gdit.com>
Subject: Re: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Thanks Don,

I've got our data team working on this as we speak. I saw an email today from them saying they were going to discuss. I will keep you posted. Thanks!

Get Outlook for iOS

From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, June 28, 2023 12:56:06 PM
To: LaFemina, Matt <MATT.LAFEMINA@tetratech.com>
Cc: Samantha.Sosko@gdit.com <Samantha.Sosko@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: FW: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hi Matt, I wanted to follow up with you on the following issue regarding using the same CLP ID(s) for total and total metals. If this hasn't been done yet, please revise the COC(s) with new CLP IDs for the dissolved metals in response to Issue 1 below. Please send the COCs to Samantha as the lab is waiting for the updated IDs.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, June 28, 2023 9:51 AM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Hi Don,

Will a pdf copy of the revised COC be provided?

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
Under contract to the EPA

15036 Conference Center Drive, Chantilly, VA 20151
T 703.995.5356
Samantha.Sosko@gdit.com
www.gdit.com

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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Tuesday, June 27, 2023 5:43 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Matt, please revise the COC(s) with new CLP Ids for the dissolved metals in response to Issue 1> Please upload the new COCs to the CLPSS Portal.

Samantha, have the lab note the issue in the case narrative for Issue 2 and continue with sample analysis.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Tuesday, June 27, 2023 3:11 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on issues 1 and 2 from CHM.

Issue 1: Total ICP-MS 11+ Metals and Dissolved ICP-MS 11+ Metals analysis for water samples is listed with the same CLP sample numbers on the COC. The laboratory is requesting a new COC with separate CLP sample numbers.

Issue 2: The laboratory received samples on 6/27/2023 with melted ice and cooler temperatures of 17.8, 18.3, 20.1, 21.2, 19.3, and 19.1 degrees Celsius. The laboratory would like to confirm how they should proceed with analysis.

Issue 3: Air bill numbers are missing on all COCs.
Resolution 3: In accordance with previous direction from Region 8, the laboratory will laboratory will note the discrepancy in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all COCs received for this Case.

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:44 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; DASsupport <DASsupport@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi,

One more issue with the shipment air bill number missing on COC..

Regards,

Deepak Parmar
QA/QC

From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Tuesday, June 27, 2023 3:04 PM
To: 'Sosko, Samantha' <Samantha.Sosko@gdit.com>
Cc: 'Sohil Jodhani ' <sohil@chemtech.net>; 'Mohammad Ahmed' <mohammad@chemtech.net>; 'DASsupport'

<DASsupport@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Issue 1: Total ICP-MS 11+ Metals and dissolved ICP-MS 11+ Metals analysis is scheduled, and the same CLP sample numbers are used for both analyses on the COC. The laboratory requests that new sample numbers be provided for the water (filtered) samples.

Issue 2: Lab received sample for Case 50856 today 6/27/2023 melted ice with cooler temperature 17.8,18.3,20.1,21.2,19.3 and 19.1 degrees C. therefore lab would like to confirm that lab how can proceed with Analysis ?

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Thursday, July 06, 2023 1:53 PM
To: deepak@CHEMTECH.NET; sohil@chemtech.net
Cc: Goodrich.Donald@epa.gov; Johnson, Matthew; Bauer, Heather E
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC | FINAL

Good afternoon,

Please see the resolutions from Region 8 below. Revised COCs will be provided as soon as they are received from the Region.

Issue 1: Hardness analysis is scheduled only for filtered ICP-MS Metals samples but the COC lists Hardness analysis for Total Metals only. Please confirm how the laboratory should proceed with analysis.
Resolution 1: Per Region 8, Hardness is only required for filtered ICP-MS Metals samples. An updated COC will be provided. Please note the issue in the SDG Narrative and proceed with analysis as scheduled.

Issue 2: Relinquished information is missing on all COCs.
Issue 2: Per Region 8, an updated COC will be provided. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Samantha Sosko

Environmental Analyst Associate
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From: Goodrich, Donald <Goodrich.Donald@epa.gov>
Sent: Wednesday, July 5, 2023 5:11 PM
To: Sosko, Samantha <Samantha.Sosko@gdit.com>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: RE: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Hi Samantha, hardness analysis is only required for the filtered (dissolved) samples so the COC will need to be corrected by the field contractor.

Matt, please correct the COC and remove the hardness analysis from the total analysis and add hardness to the dissolved analysis. Additionally, sign the relinquishing information on the COCs making sure the date that the samples were sent is noted along with the signature.

Thanks,
Don

Don Goodrich
EPA Region 8
8LSASD-LSB | 5247
303-312-6687 (office) | 303-905-4024 (cell) | goodrich.donald@epa.gov

---

From: Sosko, Samantha <Samantha.Sosko@gdit.com>
Sent: Wednesday, July 5, 2023 2:51 PM
To: Goodrich, Donald <Goodrich.Donald@epa.gov>; LaFemina, Matt <matt.lafemina@tetratech.com>
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

Good afternoon,

Please advise on the following issues from CHM.

Issue 1: Hardness analysis is scheduled only for filtered ICP-MS Metals samples but the COC lists Hardness analysis for Total Metals only. Please confirm how the laboratory should proceed with analysis.

Issue 2: Relinquished information is missing on all COCs.

Thank you,

Samantha Sosko

Environmental Analyst Associate
GDIT Federal Civilian Division
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Samantha.Sosko@gdit.com
www.gdit.com

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From: DEEPAK@CHEMTECH.NET <deepak@CHEMTECH.NET>
Sent: Wednesday, July 5, 2023 3:48 PM

To: Sosko, Samantha <Samantha.Sosko@gdit.com>
Cc: sohil@chemtech.net
Subject: Region 08 | Case 50856 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

[External: Use caution with links & attachments]

Good afternoon,

Issue 1: As per ASR Hardness analysis required for Dissolved Metals only , however Hardness analysis mentioned on COC for total metals , therefore lab would like to confirm that lab how can proceed with Analysis ?
Issue 2: Relinquished information is missing on all COC .

Please see attachment for your reference.

Regards,

Deepak Parmar
QA/QC

EPA SAMPLE NO.

MH0F96

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : 3114.0 SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-01

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	38		07/14/2023	1505
7440-36-0	Antimony	0.17	J	07/14/2023	1505
7440-38-2	Arsenic	0.19	J	07/14/2023	1505
7440-39-3	Barium	28		07/14/2023	1505
7440-41-7	Beryllium	0.10	J	07/14/2023	1505
7440-43-9	Cadmium	1.0	U	07/14/2023	1505
7440-70-2	Calcium	15000		07/14/2023	1505
7440-47-3	Chromium	4.2		07/14/2023	1505
7440-48-4	Cobalt	0.23	J	07/14/2023	1505
7440-50-8	Copper	2.0	U	07/14/2023	1505
7439-89-6	Iron	360		07/14/2023	1505
7439-92-1	Lead	0.37	J	07/14/2023	1505
7439-95-4	Magnesium	2900		07/14/2023	1505
7439-96-5	Manganese	12		07/14/2023	1505
7440-02-0	Nickel	1.7		07/14/2023	1505
7440-09-7	Potassium	1700		07/14/2023	1505
7782-49-2	Selenium	5.0	U	07/14/2023	1505
7440-22-4	Silver	1.0	U	07/14/2023	1505
7440-23-5	Sodium	11000		07/14/2023	1505
7440-28-0	Thallium	1.0	U	07/14/2023	1505
7440-62-2	Vanadium	0.44	J	07/14/2023	1505
7440-66-6	Zinc	17		07/14/2023	1505
Hardness	Hardness (total)	49		07/14/2023	1505

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F97

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : 3114.0 SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-02

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	46		07/14/2023	1508
7440-36-0	Antimony	2.0	U	07/14/2023	1508
7440-38-2	Arsenic	0.42	J	07/14/2023	1508
7440-39-3	Barium	48		07/14/2023	1508
7440-41-7	Beryllium	0.13	J	07/14/2023	1508
7440-43-9	Cadmium	1.0	U	07/14/2023	1508
7440-70-2	Calcium	31000		07/14/2023	1508
7440-47-3	Chromium	1.9	J	07/14/2023	1508
7440-48-4	Cobalt	0.55	J	07/14/2023	1508
7440-50-8	Copper	0.97	J	07/14/2023	1508
7439-89-6	Iron	900		07/14/2023	1508
7439-92-1	Lead	0.29	J	07/14/2023	1508
7439-95-4	Magnesium	7300		07/14/2023	1508
7439-96-5	Manganese	60		07/14/2023	1508
7440-02-0	Nickel	0.87	J	07/14/2023	1508
7440-09-7	Potassium	2900		07/14/2023	1508
7782-49-2	Selenium	5.0	U	07/14/2023	1508
7440-22-4	Silver	1.0	U	07/14/2023	1508
7440-23-5	Sodium	21000		07/14/2023	1508
7440-28-0	Thallium	1.0	U	07/14/2023	1508
7440-62-2	Vanadium	0.36	J	07/14/2023	1508
7440-66-6	Zinc	43		07/14/2023	1508
Hardness	Hardness (total)	110		07/14/2023	1508

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F98

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : 3114.0 SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-05

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	51		07/14/2023	1520
7440-36-0	Antimony	0.16	J	07/14/2023	1520
7440-38-2	Arsenic	0.52	J	07/14/2023	1520
7440-39-3	Barium	48		07/14/2023	1520
7440-41-7	Beryllium	0.15	J	07/14/2023	1520
7440-43-9	Cadmium	1.0	U	07/14/2023	1520
7440-70-2	Calcium	31000		07/14/2023	1520
7440-47-3	Chromium	2.4		07/14/2023	1520
7440-48-4	Cobalt	0.71	J	07/14/2023	1520
7440-50-8	Copper	1.1	J	07/14/2023	1520
7439-89-6	Iron	190	J	07/14/2023	1520
7439-92-1	Lead	0.45	J	07/14/2023	1520
7439-95-4	Magnesium	7200		07/14/2023	1520
7439-96-5	Manganese	59		07/14/2023	1520
7440-02-0	Nickel	1.4		07/14/2023	1520
7440-09-7	Potassium	2800		07/14/2023	1520
7782-49-2	Selenium	5.0	U	07/14/2023	1520
7440-22-4	Silver	1.0	U	07/14/2023	1520
7440-23-5	Sodium	21000		07/14/2023	1520
7440-28-0	Thallium	1.0	U	07/14/2023	1520
7440-62-2	Vanadium	0.50	J	07/14/2023	1520
7440-66-6	Zinc	46		07/14/2023	1520
Hardness	Hardness (total)	110		07/14/2023	1520

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F99

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : 3114.0 SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-06

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	44		07/14/2023	1523
7440-36-0	Antimony	0.16	J	07/14/2023	1523
7440-38-2	Arsenic	0.39	J	07/14/2023	1523
7440-39-3	Barium	46		07/14/2023	1523
7440-41-7	Beryllium	0.14	J	07/14/2023	1523
7440-43-9	Cadmium	1.0	U	07/14/2023	1523
7440-70-2	Calcium	32000		07/14/2023	1523
7440-47-3	Chromium	0.48	J	07/14/2023	1523
7440-48-4	Cobalt	0.58	J	07/14/2023	1523
7440-50-8	Copper	2.0	U	07/14/2023	1523
7439-89-6	Iron	110	J	07/14/2023	1523
7439-92-1	Lead	0.23	J	07/14/2023	1523
7439-95-4	Magnesium	7900		07/14/2023	1523
7439-96-5	Manganese	53		07/14/2023	1523
7440-02-0	Nickel	0.64	J	07/14/2023	1523
7440-09-7	Potassium	2700		07/14/2023	1523
7782-49-2	Selenium	5.0	U	07/14/2023	1523
7440-22-4	Silver	1.0	U	07/14/2023	1523
7440-23-5	Sodium	21000		07/14/2023	1523
7440-28-0	Thallium	1.0	U	07/14/2023	1523
7440-62-2	Vanadium	0.34	J	07/14/2023	1523
7440-66-6	Zinc	33		07/14/2023	1523
Hardness	Hardness (total)	110		07/14/2023	1523

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FA0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : 3114.0 SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-07

% Solids: Date Received: 06/27/2023

Analytical Method: ICP_MS

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	5.7	J	07/14/2023	1526
7440-36-0	Antimony	2.0	U	07/14/2023	1526
7440-38-2	Arsenic	1.0	U	07/14/2023	1526
7440-39-3	Barium	10	U	07/14/2023	1526
7440-41-7	Beryllium	1.0	U	07/14/2023	1526
7440-43-9	Cadmium	1.0	U	07/14/2023	1526
7440-70-2	Calcium	47	J	07/14/2023	1526
7440-47-3	Chromium	2.0	U	07/14/2023	1526
7440-48-4	Cobalt	1.0	U	07/14/2023	1526
7440-50-8	Copper	2.0	U	07/14/2023	1526
7439-89-6	Iron	200	U	07/14/2023	1526
7439-92-1	Lead	1.0	U	07/14/2023	1526
7439-95-4	Magnesium	500	U	07/14/2023	1526
7439-96-5	Manganese	1.0	U	07/14/2023	1526
7440-02-0	Nickel	1.0	U	07/14/2023	1526
7440-09-7	Potassium	42	J	07/14/2023	1526
7782-49-2	Selenium	5.0	U	07/14/2023	1526
7440-22-4	Silver	1.0	U	07/14/2023	1526
7440-23-5	Sodium	500	U	07/14/2023	1526
7440-28-0	Thallium	1.0	U	07/14/2023	1526
7440-62-2	Vanadium	5.0	U	07/14/2023	1526
7440-66-6	Zinc	5.0	U	07/14/2023	1526
Hardness	Hardness (total)	3.3	U	07/14/2023	1526

NOTE: Hardness (total) is reported in mg/L

Comments:

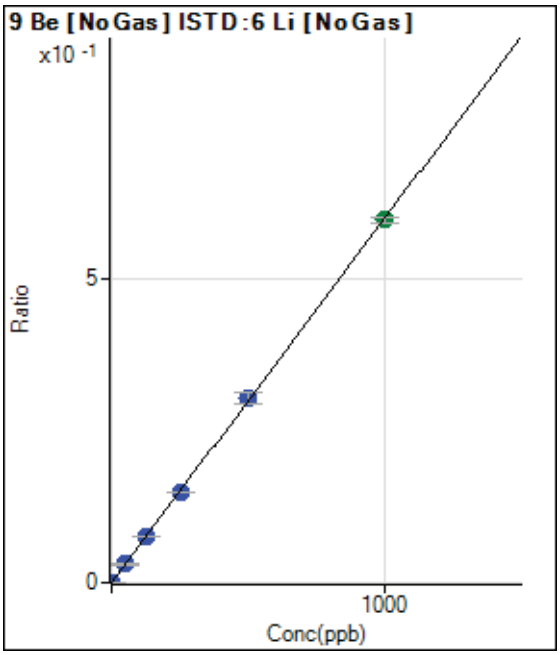
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071423-MS.b\
Analysis File: P8071423-MS.batch.bin
DA Date-Time: 2023-07-14 16:23:58
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-07-14 13:46:20
2	005CALS.d	S02	2023-07-14 13:49:22
3	006CALS.d	S03	2023-07-14 13:52:26
4	007CALS.d	S04	2023-07-14 13:55:24
5	008CALS.d	S05	2023-07-14 13:58:25
6	009CALS.d	S06	2023-07-14 14:01:24
7	010CALS.d	S07	2023-07-14 14:04:24
8	011CALS.d	S08	2023-07-14 14:07:23

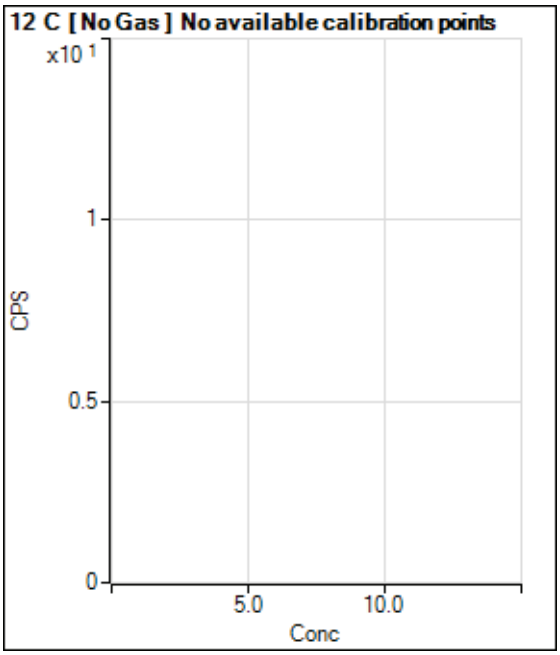
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	35.00	0.0000	P	21.8
2		1.000	1.060	1560.31	0.0006	P	1.0
3		50.000	50.323	74426.90	0.0301	P	2.3
4		125.000	126.622	181463.00	0.0758	P	1.3
5		250.000	248.184	355065.37	0.1486	P	2.0
6		500.000	507.250	687701.77	0.3037	P	5.7
7		1000.000	996.610	1349065.76	0.5966	A	1.7
8				393.31	0.0002	P	90.1

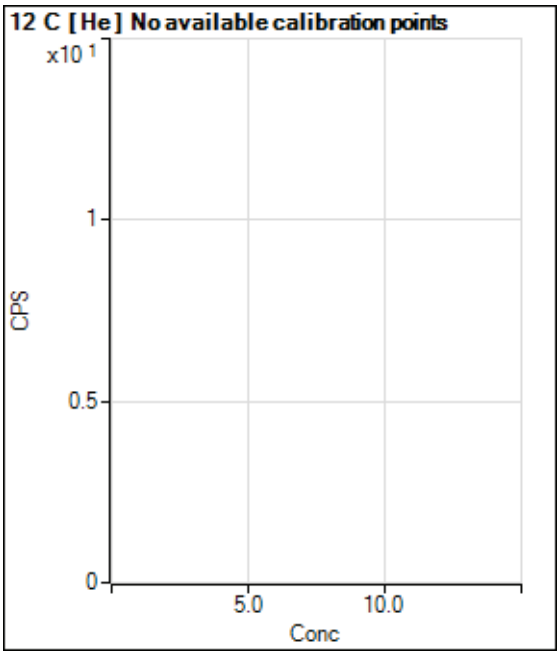
y = 5.9862E-004 * x + 1.4263E-005
R = 1.0000
DL = 0.01561
BEC = 0.02383

Weight: <None>
Min Conc: 0

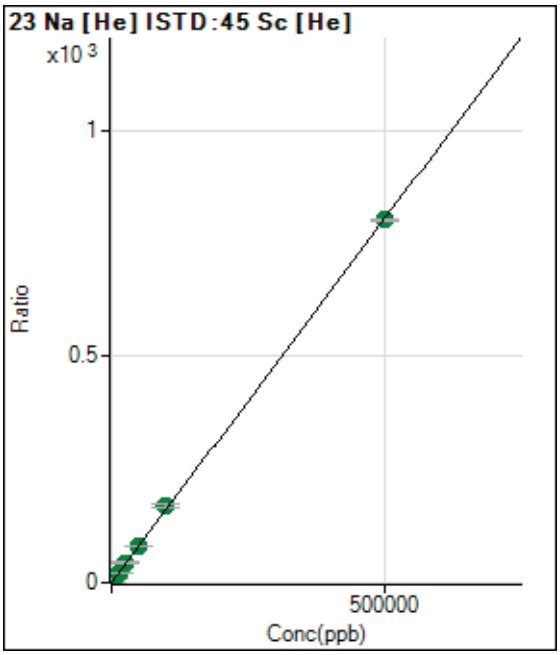


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2531260.04		A	0.6
2				2539264.21		A	1.3
3				2875155.66		A	0.5
4				2729101.99		A	1.1
5				2743355.98		A	1.0
6				3010458.55		A	4.7
7				2920951.67		A	0.1
8				2758464.06		A	1.2

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				30676.97		P	1.0
2				30908.15		P	0.6
3				35298.73		P	1.7
4				33611.31		P	1.5
5				35262.39		P	1.5
6				40188.94		P	1.7
7				37317.39		P	1.0
8				38996.84		P	1.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14299.12	0.1029	P	1.5
2		500.000	471.670	119599.55	0.8603	P	1.1
3		5000.000	5153.034	1147603.77	8.3779	A	1.2
4		12500.000	12704.821	2752045.70	20.5050	A	2.3
5		25000.000	27544.719	5416829.98	44.3358	A	11.3
6		50000.000	50550.327	10374141.29	81.2795	A	2.3
7		100000.00	104575.61	19658378.91	168.0364	A	4.9
8		500000.00	498895.98	88460381.14	801.2586	A	0.5

y = 0.0016 * x + 0.1029
R = 0.9999
DL = 2.973
BEC = 64.07

Weight: <None>
Min Conc: 0

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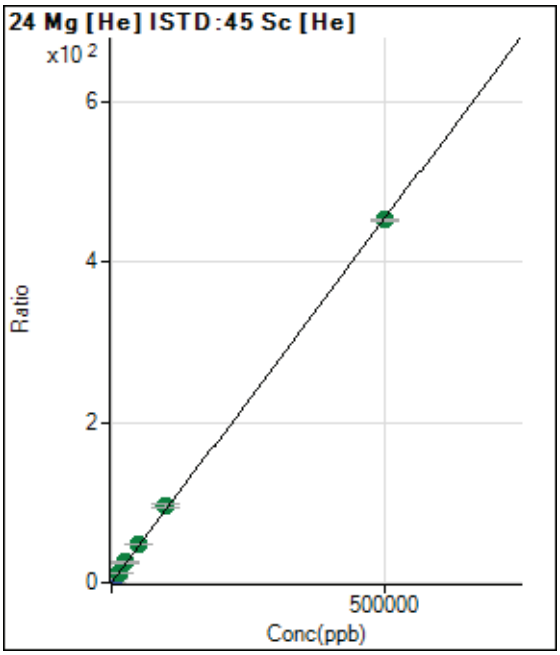
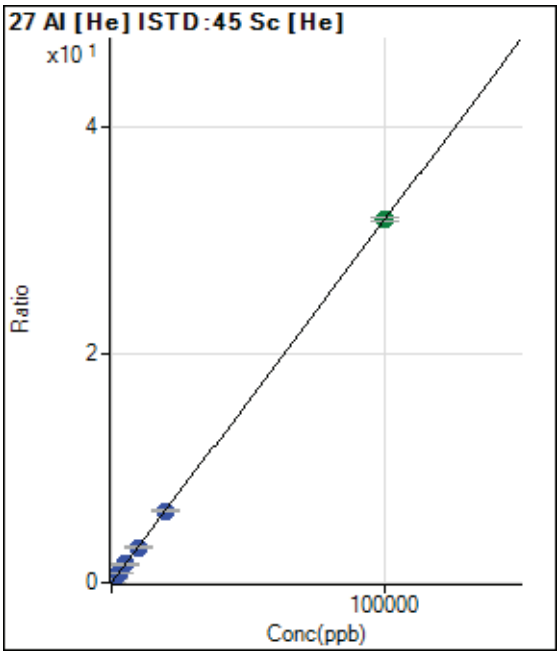
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	180.56	0.0013	P	54.3
2		500.000	467.676	59290.72	0.4265	P	0.7
3		5000.000	5178.234	644914.39	4.7091	P	3.1
4		12500.000	13096.837	1598255.20	11.9082	A	2.4
5		25000.000	28164.362	3128707.12	25.6067	A	11.2
6		50000.000	52261.593	6064831.00	47.5145	A	1.7
7		100000.00	106092.04	11286262.92	96.4541	A	4.2
8		500000.00	498380.54	50022572.99	453.1003	A	0.2

y = 9.0914E-004 * x + 0.0013
R = 0.9999
DL = 2.334
BEC = 1.433

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	76.24	0.0005	P	23.5
2		20.000	19.840	953.25	0.0069	P	4.7
3		1000.000	985.159	42979.72	0.3138	P	2.3
4		2500.000	2441.055	104264.70	0.7767	P	0.5
5		5000.000	5232.459	203246.55	1.6643	P	12.0
6		10000.000	9801.025	397868.44	3.1170	P	1.6
7		20000.000	19852.396	738704.84	6.3131	P	4.0
8		100000.00	100039.41	3512018.27	31.8105	A	1.2

y = 3.1797E-004 * x + 5.4947E-004
R = 1.0000
DL = 1.218
BEC = 1.728

Weight: <None>
Min Conc: 0

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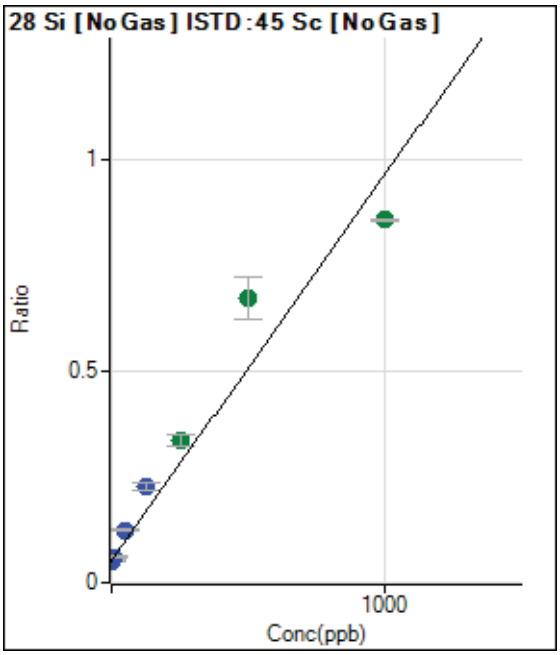
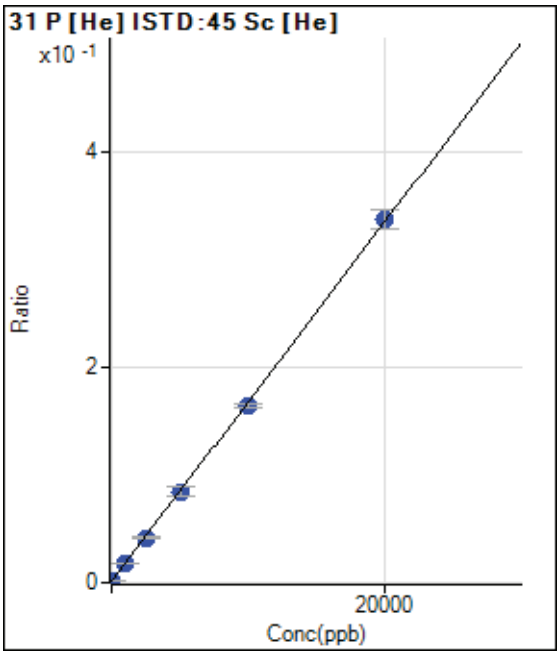
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	211008.84	0.0522	P	2.7
2		10.000	9.555	247271.41	0.0609	P	6.1
3		50.000	78.032	500065.92	0.1233	P	3.5
4		125.000	192.061	919309.49	0.2272	P	6.5
5		250.000	311.987	1335248.44	0.3365	A	8.4
6		500.000	681.065	2508551.51	0.6729	A	14.5
7		1000.000	884.191	3261210.14	0.8581	A	0.7
8				562101.66	0.1658	P	7.1

y = 9.1148E-004 * x + 0.0522
R = 0.9693
DL = 4.719
BEC = 57.23

Weight: <None>
Min Conc: 0

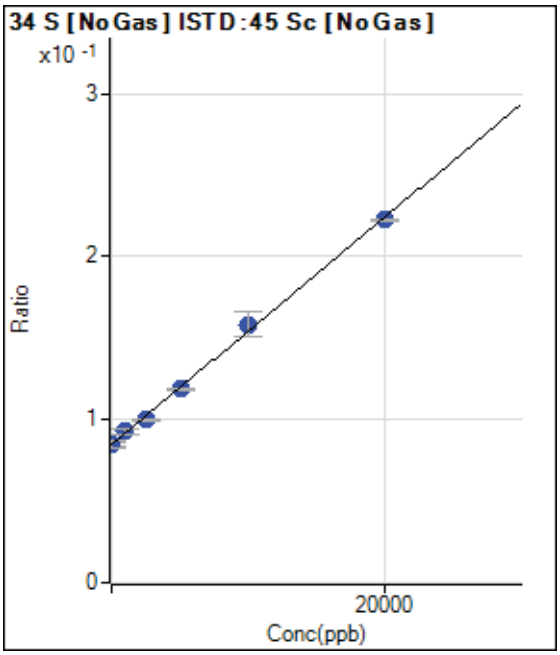


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.022	161.12	0.0012	P	18.6
2		0.000	-0.022	161.12	0.0012	P	2.9
3		1000.000	988.104	2416.95	0.0176	P	4.3
4		2500.000	2438.055	5612.33	0.0418	P	1.2
5		5000.000	5005.001	10340.04	0.0846	P	10.9
6		10000.000	9749.698	20898.94	0.1637	P	2.5
7		20000.000	20132.239	39401.34	0.3368	P	5.4
8				130.56	0.0012	P	16.9

y = 1.6673E-005 * x + 0.0012
R = 0.9999
DL = 22.41
BEC = 69.53

Weight: <None>
Min Conc: 0

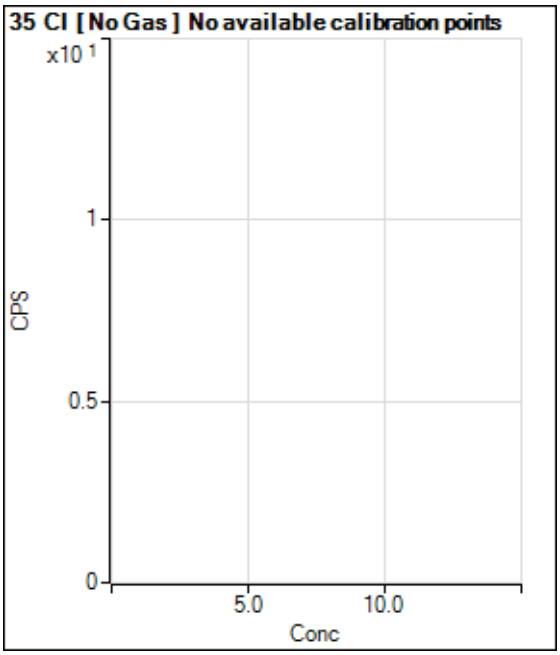
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	-46.744	341582.80	0.0844	P	2.7
2		0.000	46.744	345777.95	0.0851	P	4.9
3		1000.000	1119.669	375188.29	0.0926	P	2.6
4		2500.000	2156.539	403720.83	0.0998	P	1.6
5		5000.000	4875.485	471181.03	0.1187	P	1.5
6		10000.000	10593.325	592162.25	0.1585	P	9.2
7		20000.000	19771.415	845392.66	0.2224	P	0.8
8				291374.01	0.0861	P	3.1

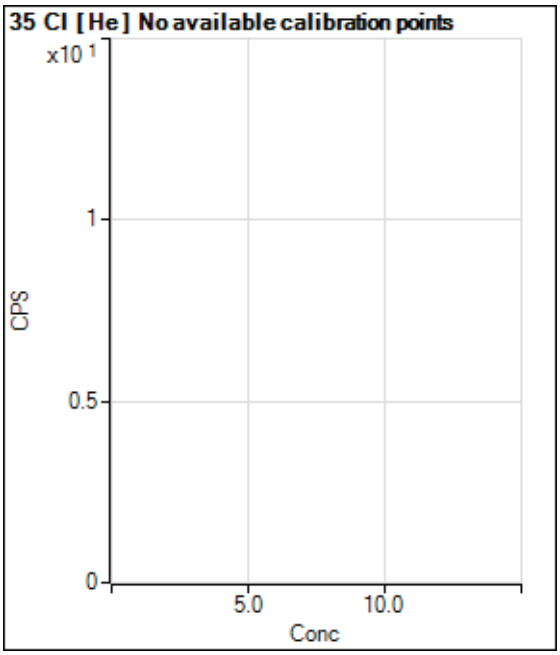
y = 6.9628E-006 * x + 0.0848
R = 0.9991
DL = 1387
BEC = 1.217E+04

Weight: <None>
Min Conc: 0

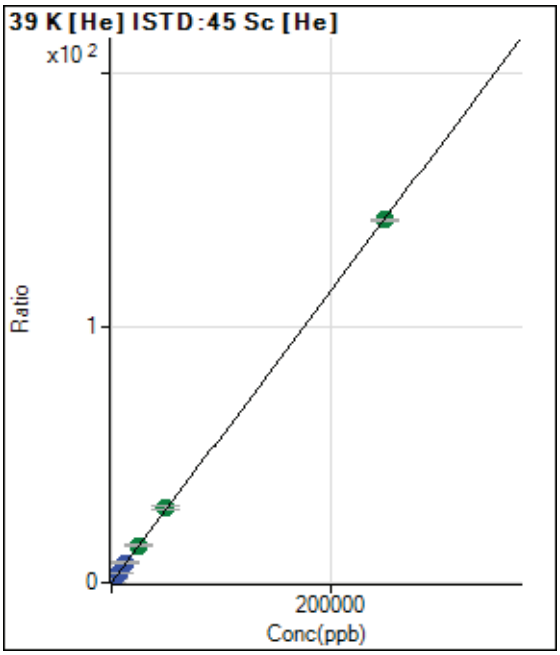


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				172151.48		P	1.2
2				172123.08		P	0.7
3				180146.93		P	1.3
4				174542.39		P	0.3
5				171250.93		P	1.8
6				165471.44		P	1.4
7				165050.33		P	2.2
8				170352.09		P	2.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1222.31		P	2.8
2				1236.20		P	2.8
3				1361.21		P	10.7
4				1333.43		P	5.7
5				1211.19		P	5.2
6				1158.41		P	2.6
7				1205.64		P	9.4
8				1386.22		P	6.3

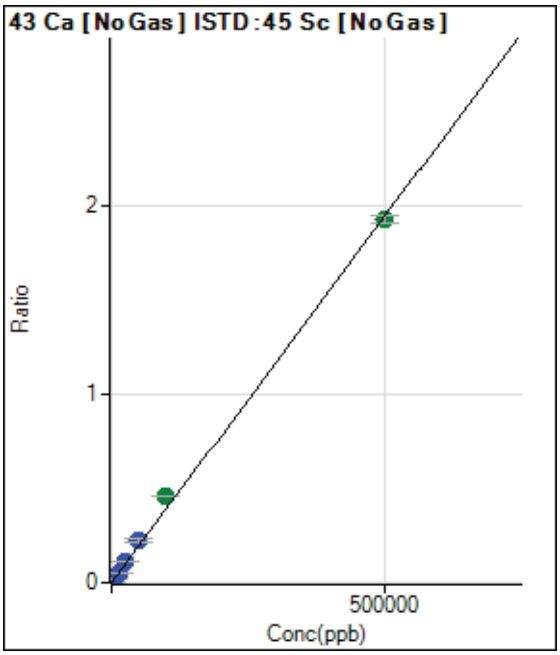


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	10028.73	0.0722	P	2.6
2		500.000	465.343	46868.29	0.3371	P	1.7
3		2500.000	2515.715	206087.19	1.5045	P	1.4
4		6250.000	6189.457	482738.01	3.5963	P	0.6
5		12500.000	13282.300	932280.01	7.6348	P	12.1
6		25000.000	25587.729	1868738.80	14.6411	A	2.2
7		50000.000	51448.981	3436420.52	29.3659	A	3.7
8		250000.00	249613.74	15697932.12	142.1957	A	0.4

y = 5.6937E-004 * x + 0.0722
R = 1.0000
DL = 9.806
BEC = 126.7

Weight: <None>
Min Conc: 0

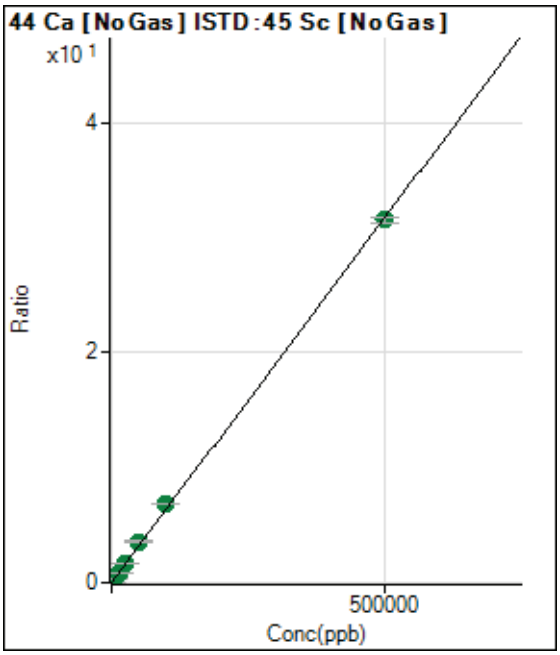
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	223.72	0.0001	P	4.5
2		500.000	456.605	7416.83	0.0018	P	5.4
3		5000.000	5654.803	89093.07	0.0220	P	2.3
4		12500.000	13899.587	218266.13	0.0539	P	0.9
5		25000.000	27836.240	428575.23	0.1080	P	1.1
6		50000.000	57908.107	838784.52	0.2246	P	9.4
7		100000.00	117337.21	1729246.89	0.4550	A	0.3
8		500000.00	495558.44	6504416.39	1.9214	A	2.3

y = 3.8771E-006 * x + 5.5319E-005
R = 0.9993
DL = 1.917
BEC = 14.27

Weight: <None>
Min Conc: 0

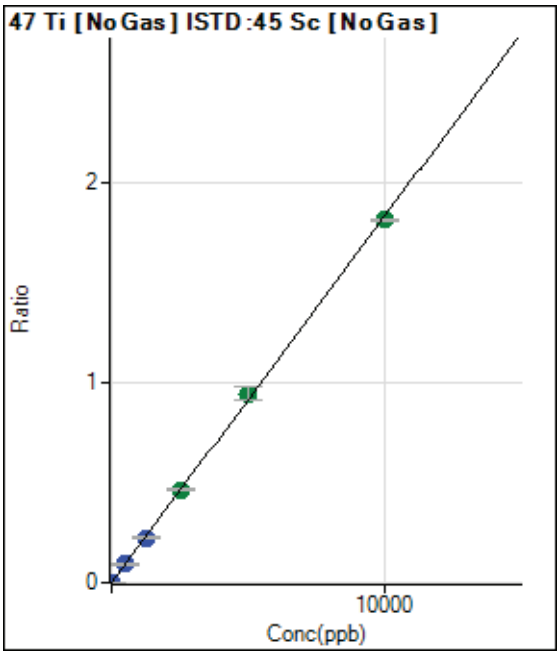


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	34495.09	0.0085	P	3.5
2		500.000	455.431	151948.73	0.0374	P	4.7
3		5000.000	5661.967	1488960.08	0.3674	A	2.7
4		12500.000	13651.450	3535167.54	0.8737	A	0.3
5		25000.000	27319.536	6905653.27	1.7399	A	1.3
6		50000.000	56584.977	13429646.73	3.5946	A	9.0
7		100000.00	107558.83	25940933.46	6.8251	A	1.3
8		500000.00	497678.39	106814701.6	31.5492	A	1.6

y = 6.3376E-005 * x + 0.0085
R = 0.9998
DL = 14.27
BEC = 134.6

Weight: <None>
Min Conc: 0

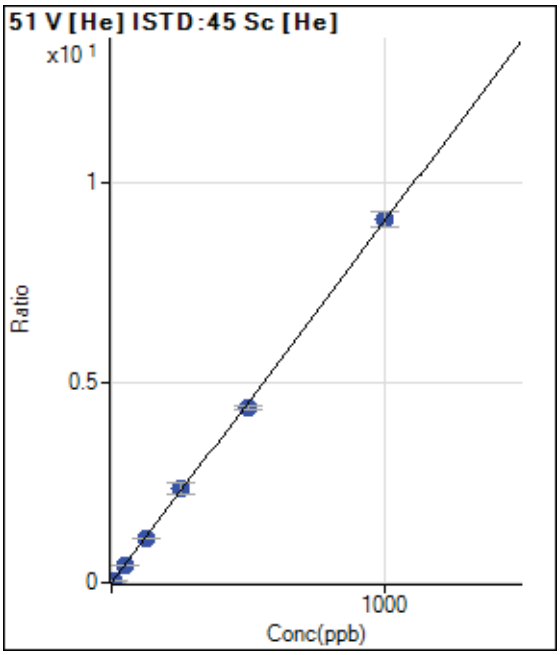
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	105.56	0.0000	P	39.5
2		5.000	4.843	3722.80	0.0009	P	1.9
3		500.000	503.653	374405.48	0.0924	P	2.3
4		1250.000	1231.985	914031.51	0.2259	P	0.7
5		2500.000	2543.205	1850744.40	0.4663	A	1.7
6		5000.000	5171.166	3545352.12	0.9482	A	7.4
7		10000.000	9905.685	6902845.29	1.8162	A	0.6
8				1958.87	0.0006	P	84.1

y = 1.8335E-004 * x + 2.6219E-005
R = 0.9998
DL = 0.1694
BEC = 0.143

Weight: <None>
Min Conc: 0

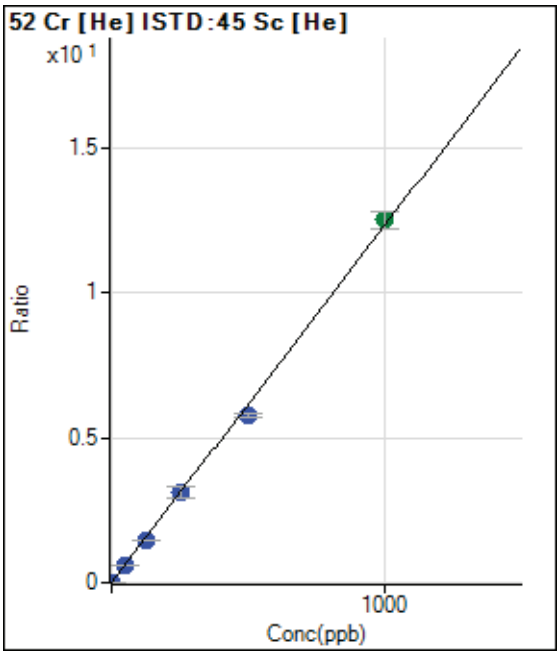


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	21.11	0.0002	P	73.2
2		5.000	4.584	5782.34	0.0416	P	2.5
3		50.000	48.963	60651.19	0.4428	P	1.7
4		125.000	121.290	147210.35	1.0966	P	0.3
5		250.000	262.304	289525.09	2.3714	P	12.3
6		500.000	484.968	559628.49	4.3843	P	1.7
7		1000.000	1004.958	1062986.39	9.0850	P	4.2
8				387.79	0.0035	P	47.1

y = 0.0090 * x + 1.5270E-004
R = 0.9997
DL = 0.03709
BEC = 0.01689

Weight: <None>
Min Conc: 0

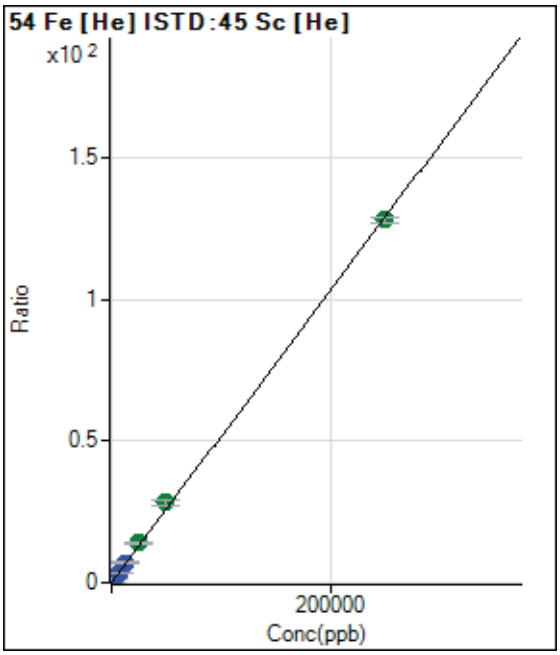
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	1120.06	0.0081	P	2.8
2		2.000	1.845	4272.91	0.0307	P	4.6
3		50.000	47.575	81207.89	0.5928	P	2.7
4		125.000	117.096	194278.65	1.4474	P	1.0
5		250.000	254.564	382996.62	3.1371	P	12.4
6		500.000	467.104	733887.07	5.7495	P	1.7
7		1000.000	1016.417	1462609.84	12.5015	A	4.8
8				8170.18	0.0740	P	1.5

y = 0.0123 * x + 0.0081
R = 0.9992
DL = 0.05597
BEC = 0.6556

Weight: <None>
Min Conc: 0

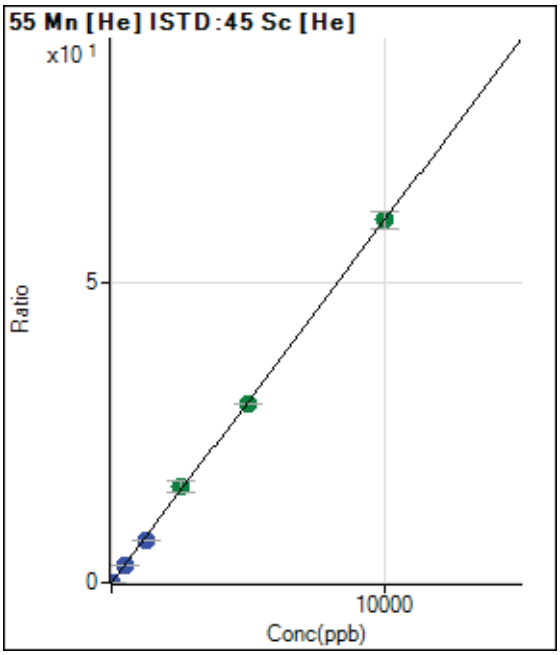


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	392.61	0.0028	P	10.3
2		50.000	51.623	4093.24	0.0294	P	5.2
3		2500.000	2580.762	182651.58	1.3334	P	0.7
4		6250.000	6392.766	442754.17	3.2986	P	1.7
5		12500.000	13808.626	869393.11	7.1219	P	12.6
6		25000.000	27192.440	1789700.22	14.0220	A	2.3
7		50000.000	54993.324	3316564.92	28.3549	A	5.9
8		250000.00	248712.28	14157137.01	128.2277	A	1.7

y = 5.1556E-004 * x + 0.0028
R = 0.9998
DL = 1.699
BEC = 5.48

Weight: <None>
Min Conc: 0

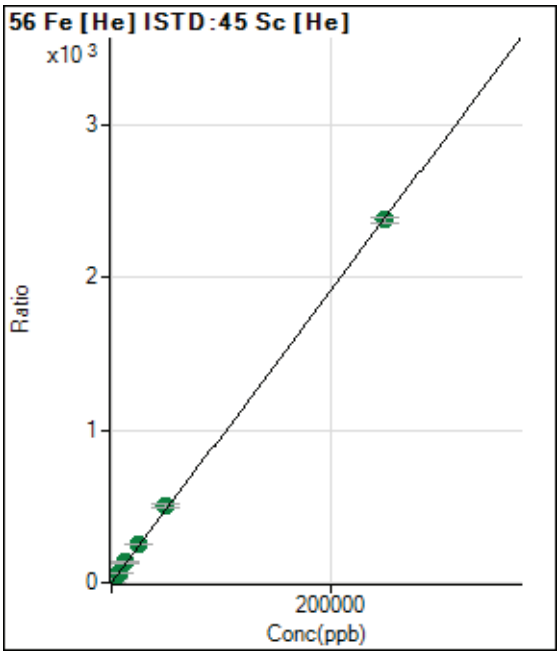
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	87.78	0.0006	P	27.6
2		1.000	0.900	845.59	0.0061	P	9.4
3		500.000	473.027	392203.38	2.8634	P	2.0
4		1250.000	1160.000	942416.74	7.0210	P	1.6
5		2500.000	2666.968	1971481.85	16.1412	A	11.8
6		5000.000	4925.272	3805236.47	29.8086	A	0.7
7		10000.000	10008.221	7086122.67	60.5708	A	4.9
8				5897.09	0.0535	P	20.8

y = 0.0061 * x + 6.3278E-004
R = 0.9997
DL = 0.0866
BEC = 0.1046

Weight: <None>
Min Conc: 0

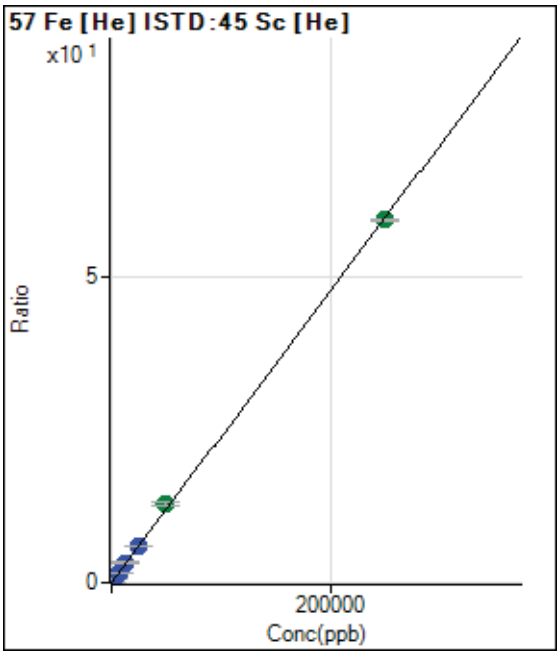


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	3331.93	0.0240	P	9.9
2		50.000	48.168	67245.02	0.4837	P	0.6
3		2500.000	2636.916	3450331.59	25.1916	A	2.3
4		6250.000	6454.375	8271709.62	61.6268	A	1.6
5		12500.000	14049.138	16387889.48	134.1138	A	11.0
6		25000.000	25943.918	31611100.71	247.6417	A	1.2
7		50000.000	52728.681	58878800.85	503.2848	A	5.0
8		250000.00	249275.93	262683089.2	2,379.199	A	1.8

y = 0.0095 * x + 0.0240
R = 0.9999
DL = 0.7457
BEC = 2.513

Weight: <None>
Min Conc: 0

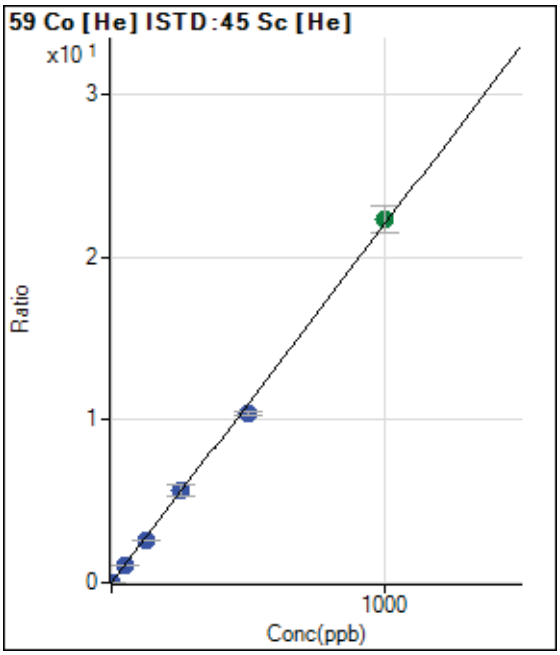
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	151.86	0.0011	P	23.3
2		50.000	50.255	1816.81	0.0131	P	1.3
3		2500.000	2517.017	82305.22	0.6009	P	1.6
4		6250.000	6224.490	199235.74	1.4843	P	1.0
5		12500.000	13526.155	393697.22	3.2241	P	12.1
6		25000.000	24921.583	758130.94	5.9394	P	1.6
7		50000.000	54327.639	1514719.72	12.9463	A	4.8
8		250000.00	249091.47	6552977.00	59.3548	A	0.6

y = 2.3828E-004 * x + 0.0011
R = 0.9998
DL = 3.206
BEC = 4.592

Weight: <None>
Min Conc: 0

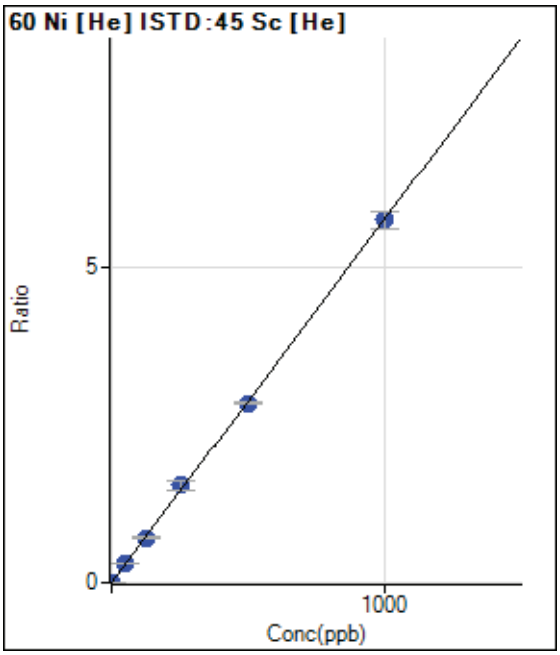


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.56	0.0005	P	29.6
2		1.000	0.899	2824.75	0.0203	P	5.9
3		50.000	48.418	145927.72	1.0652	P	0.2
4		125.000	118.595	350140.11	2.6083	P	0.2
5		250.000	257.167	690608.29	5.6553	P	12.0
6		500.000	472.639	1326666.59	10.3933	P	1.3
7		1000.000	1012.769	2604202.63	22.2702	A	7.3
8				5886.86	0.0534	P	7.8

y = 0.0220 * x + 5.4475E-004
R = 0.9994
DL = 0.02202
BEC = 0.02477

Weight: <None>
Min Conc: 0

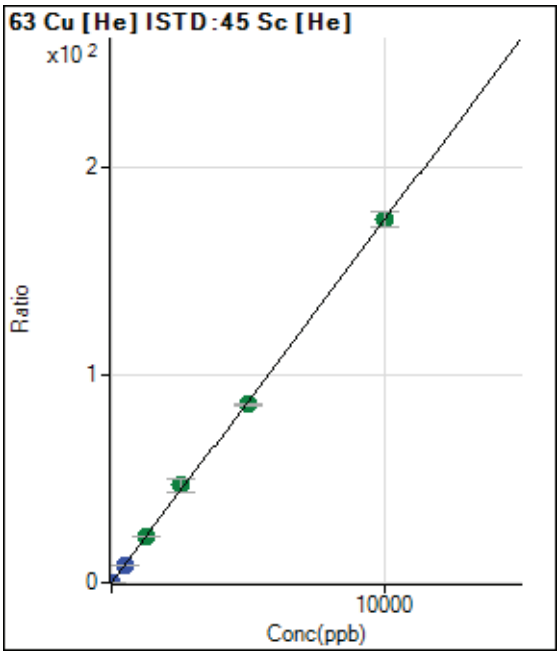
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	64.45	0.0005	P	31.2
2		1.000	1.018	881.15	0.0063	P	3.1
3		50.000	50.860	40269.15	0.2940	P	0.9
4		125.000	123.920	96047.29	0.7156	P	1.6
5		250.000	267.945	188963.63	1.5467	P	11.3
6		500.000	493.960	363925.08	2.8510	P	1.2
7		1000.000	998.626	674254.83	5.7633	P	4.8
8				3225.95	0.0292	P	5.2

y = 0.0058 * x + 4.6451E-004
R = 0.9998
DL = 0.07527
BEC = 0.08049

Weight: <None>
Min Conc: 0

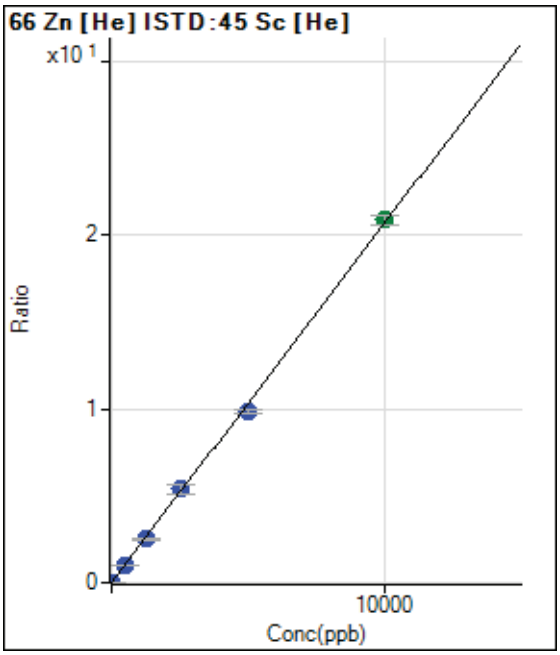


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	552.24	0.0040	P	10.5
2		2.000	1.852	5040.94	0.0363	P	0.6
3		500.000	490.568	1172233.24	8.5575	P	1.1
4		1250.000	1251.205	2929005.90	21.8200	A	0.6
5		2500.000	2681.849	5709352.28	46.7648	A	12.4
6		5000.000	4913.070	10935530.39	85.6684	A	1.6
7		10000.000	9998.324	20399228.17	174.3350	A	4.2
8				11579.79	0.1051	P	27.1

y = 0.0174 * x + 0.0040
R = 0.9998
DL = 0.07169
BEC = 0.228

Weight: <None>
Min Conc: 0

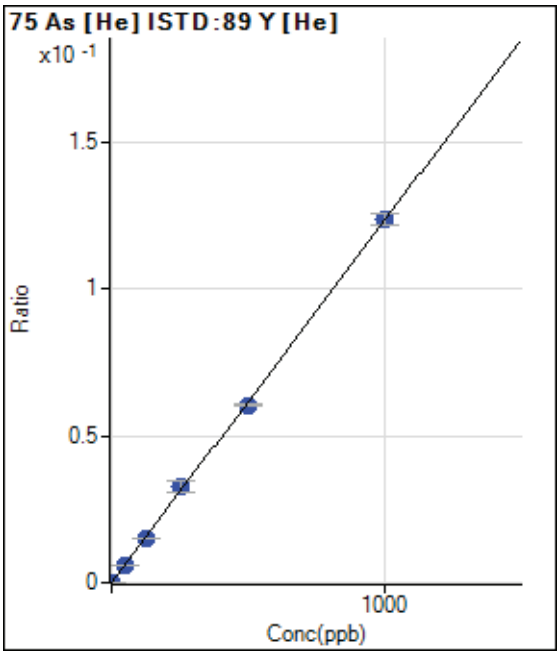
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	165.56	0.0012	P	20.4
2		2.000	2.435	864.48	0.0062	P	5.1
3		500.000	495.929	140447.33	1.0253	P	1.6
4		1250.000	1205.471	334310.59	2.4906	P	0.8
5		2500.000	2596.719	655231.82	5.3636	P	11.4
6		5000.000	4771.691	1257980.66	9.8551	P	1.7
7		10000.000	10095.744	2440141.87	20.8498	A	2.9
8				6201.73	0.0562	P	10.6

y = 0.0021 * x + 0.0012
R = 0.9996
DL = 0.352
BEC = 0.5764

Weight: <None>
Min Conc: 0

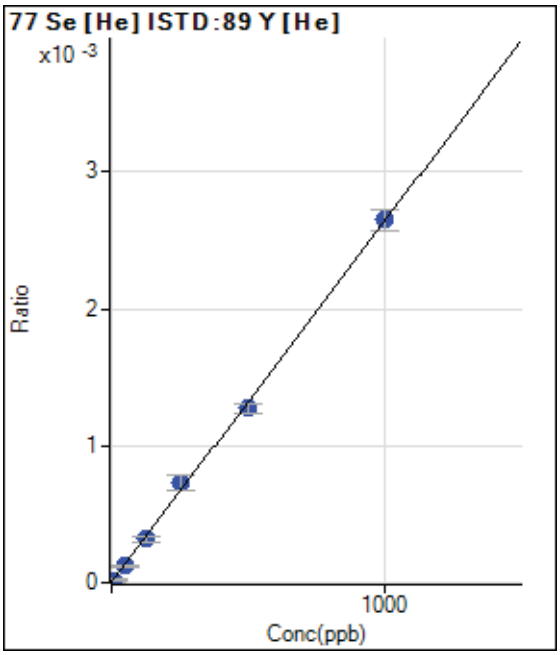


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	4.00	0.0000	P	100.
2		1.000	0.928	144.35	0.0001	P	11.8
3		50.000	49.365	7363.00	0.0061	P	2.5
4		125.000	120.663	17765.58	0.0149	P	1.3
5		250.000	266.398	34956.17	0.0328	P	12.7
6		500.000	489.215	67984.73	0.0603	P	1.2
7		1000.000	1001.867	127351.49	0.1235	P	3.1
8				80.68	0.0001	P	39.0

y = 1.2323E-004 * x + 3.3245E-006
R = 0.9997
DL = 0.08123
BEC = 0.02698

Weight: <None>
Min Conc: 0

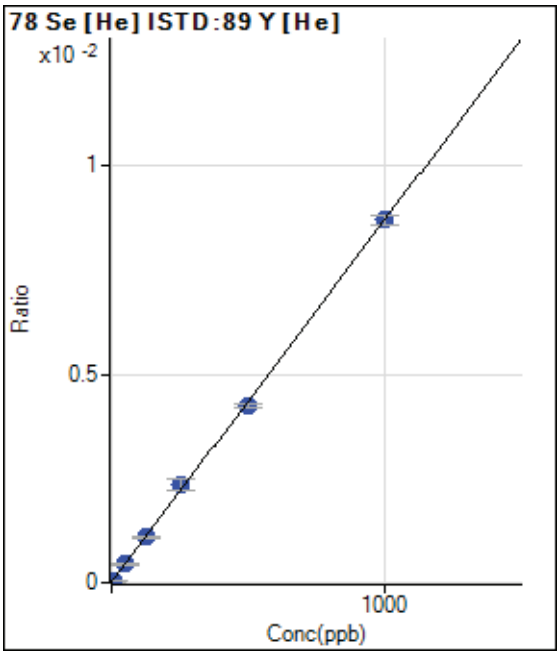
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	3.33	0.0000	P	100.
2		5.000	5.831	22.22	0.0000	P	32.3
3		50.000	46.676	152.23	0.0001	P	10.7
4		125.000	119.511	380.01	0.0003	P	11.1
5		250.000	274.875	774.48	0.0007	P	14.5
6		500.000	481.900	1436.76	0.0013	P	5.0
7		1000.000	1003.679	2732.51	0.0027	P	5.8
8				16.67	0.0000	P	39.4

y = 2.6379E-006 * x + 2.7728E-006
R = 0.9994
DL = 3.164
BEC = 1.051

Weight: <None>
Min Conc: 0

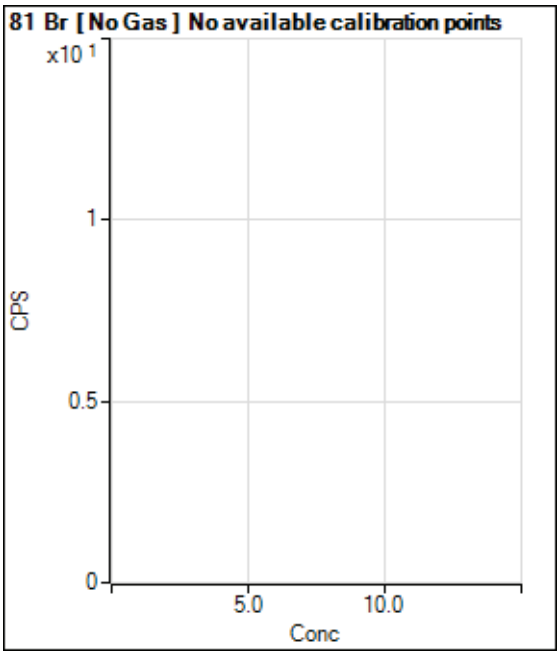


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	14.67	0.0000	P	21.5
2		5.000	4.327	61.01	0.0000	P	11.0
3		50.000	50.702	546.73	0.0005	P	11.0
4		125.000	124.062	1300.86	0.0011	P	3.0
5		250.000	270.872	2518.15	0.0024	P	11.6
6		500.000	488.241	4792.63	0.0042	P	2.3
7		1000.000	1000.747	8972.43	0.0087	P	2.8
8				64.68	0.0001	P	12.0

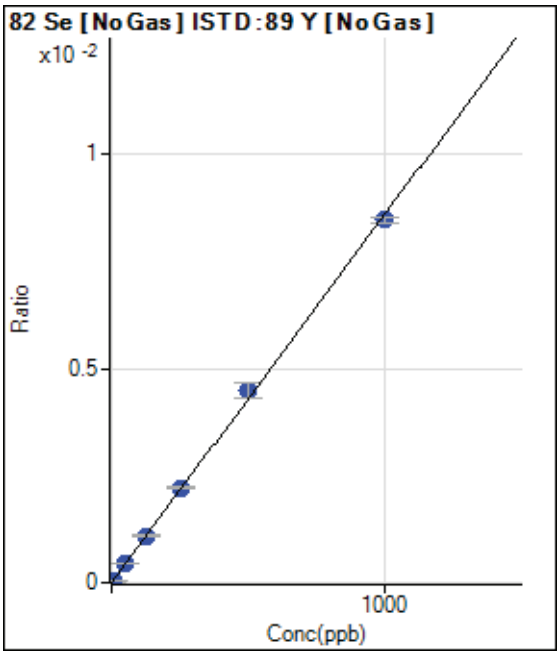
y = 8.6796E-006 * x + 1.2147E-005
R = 0.9996
DL = 0.9019
BEC = 1.399

Weight: <None>
Min Conc: 0

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				3820.07		P	7.5
2				4222.98		P	8.2
3				3825.62		P	7.7
4				3667.25		P	8.7
5				3670.03		P	5.9
6				3606.13		P	7.1
7				3567.21		P	3.0
8				4528.63		P	5.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	7.50	0.0000	P	246.
2		5.000	4.637	452.46	0.0000	P	6.1
3		50.000	52.733	5017.46	0.0005	P	0.5
4		125.000	126.674	12171.48	0.0011	P	3.8
5		250.000	257.942	24250.35	0.0022	P	0.6
6		500.000	522.875	47221.35	0.0045	P	7.8
7		1000.000	986.233	90986.32	0.0085	P	1.7
8				495.79	0.0001	P	6.6

y = 8.5824E-006 * x + 7.1840E-007

R = 0.9996

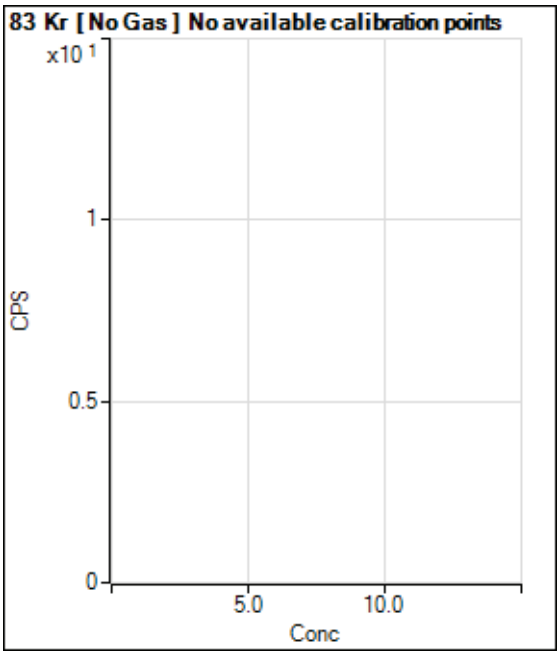
DL = 0.6193

BEC = 0.08371

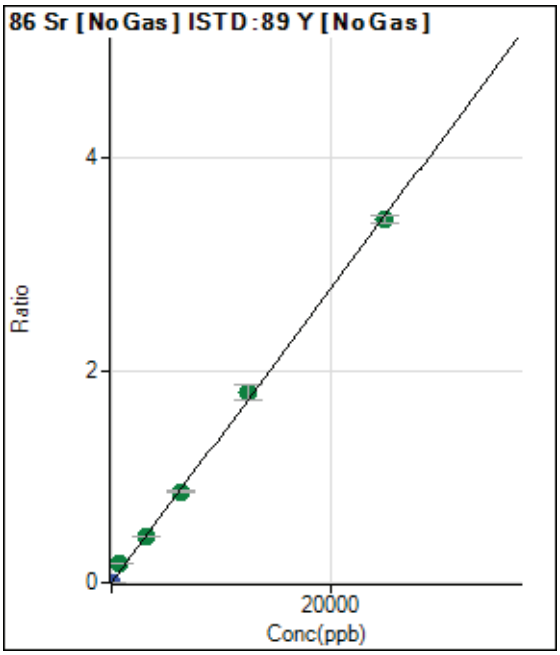
Weight: <None>

Min Conc: 0

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				256.64		P	2.8
2				269.97		P	8.4
3				262.05		P	3.6
4				260.39		P	11.0
5				255.80		P	5.3
6				259.55		P	11.2
7				240.81		P	11.6
8				236.22		P	9.6

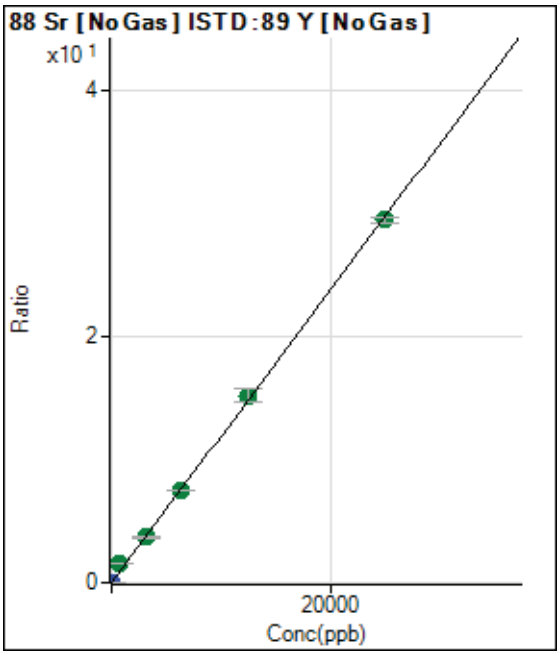


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	466.68	0.0000	P	9.7
2		1.000	0.946	1933.53	0.0002	P	12.9
3		625.000	1288.473	1971124.50	0.1781	A	0.9
4		3125.000	3129.350	4839583.31	0.4324	A	2.5
5		6250.000	6219.078	9410289.01	0.8593	A	0.7
6		12500.000	12965.010	18848410.49	1.7914	A	7.7
7		25000.000	24758.095	36770461.59	3.4208	A	2.2
8				17199.34	0.0018	P	70.4

y = 1.3817E-004 * x + 4.2459E-005
R = 0.9995
DL = 0.08987
BEC = 0.3073

Weight: <None>
Min Conc: 0

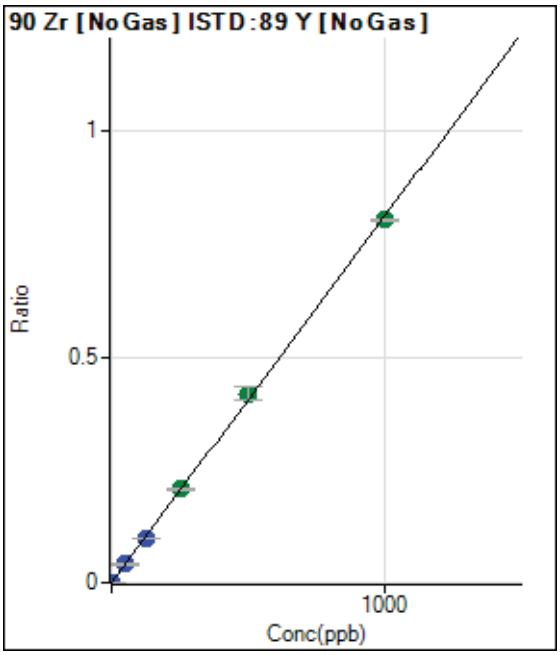
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	655.59	0.0001	P	7.9
2		1.000	0.958	13367.88	0.0012	P	5.4
3		625.000	1272.957	16729679.02	1.5114	A	1.2
4		3125.000	3108.103	41295392.24	3.6901	A	2.7
5		6250.000	6273.849	81568080.29	7.4486	A	0.7
6		12500.000	12807.606	159994234.1	15.2057	A	7.7
7		25000.000	24826.148	316840445.9	29.4745	A	1.4
8				113628.50	0.0121	P	78.6

y = 0.0012 * x + 5.9713E-005
R = 0.9996
DL = 0.01188
BEC = 0.0503

Weight: <None>
Min Conc: 0

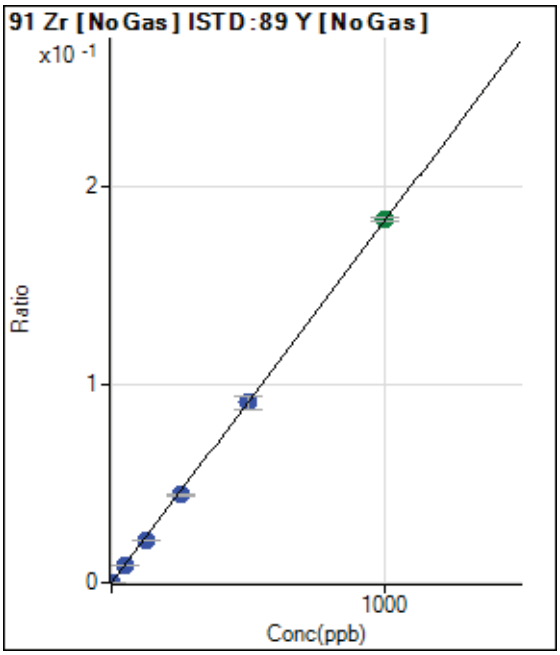


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	419.46	0.0000	P	8.1
2		1.000	0.886	8455.54	0.0008	P	6.1
3		50.000	50.075	450403.45	0.0407	P	0.9
4		125.000	121.118	1100745.04	0.0984	P	2.4
5		250.000	256.567	2281369.39	0.2083	A	2.1
6		500.000	515.939	4407922.06	0.4189	A	7.4
7		1000.000	990.870	8647607.48	0.8044	A	0.3
8				5063.30	0.0005	P	42.4

y = 8.1180E-004 * x + 3.8214E-005
R = 0.9998
DL = 0.01148
BEC = 0.04707

Weight: <None>
Min Conc: 0

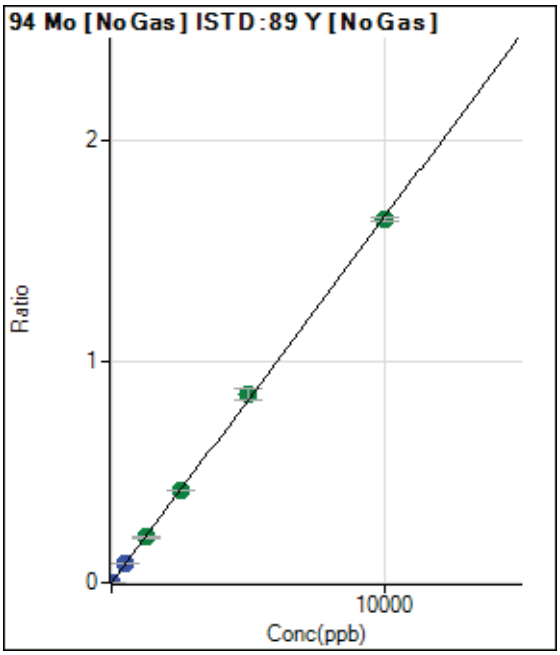
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	72.22	0.0000	P	41.8
2		1.000	0.894	1900.18	0.0002	P	4.6
3		50.000	49.959	101049.07	0.0091	P	1.0
4		125.000	117.383	239889.42	0.0214	P	3.8
5		250.000	242.842	485647.55	0.0443	P	1.4
6		500.000	497.887	956640.91	0.0909	P	7.7
7		1000.000	1003.800	1970228.80	0.1833	A	1.0
8				1584.88	0.0002	P	52.0

y = 1.8259E-004 * x + 6.5362E-006
R = 0.9999
DL = 0.04492
BEC = 0.0358

Weight: <None>
Min Conc: 0

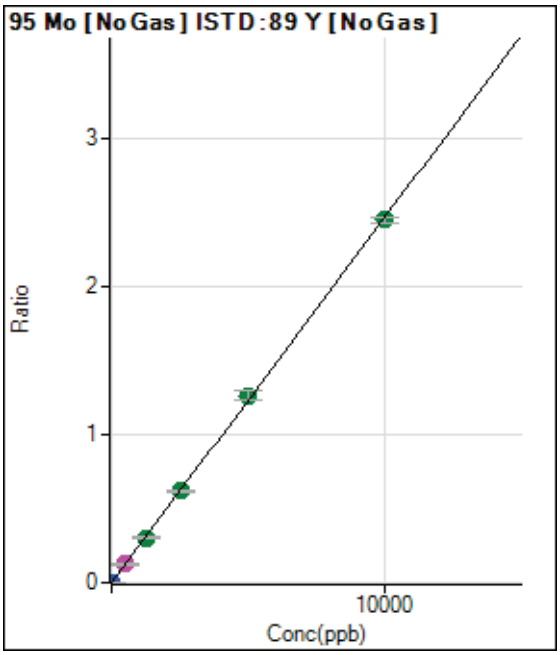


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	125.00	0.0000	P	13.5
2		5.000	5.410	10112.26	0.0009	P	5.8
3		500.000	504.914	923322.29	0.0834	P	1.0
4		1250.000	1246.672	2304585.21	0.2059	A	2.8
5		2500.000	2517.158	4553672.80	0.4158	A	1.0
6		5000.000	5147.602	8955056.80	0.8503	A	5.7
7		10000.000	9922.080	17619119.32	1.6390	A	1.1
8				7749.28	0.0008	P	61.8

y = 1.6519E-004 * x + 1.1377E-005
R = 0.9998
DL = 0.02791
BEC = 0.06887

Weight: <None>
Min Conc: 0

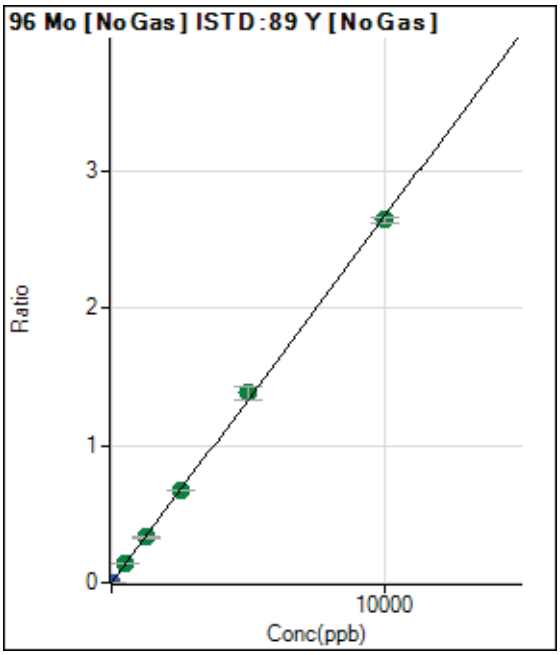
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	44.45	0.0000	P	59.4
2		5.000	4.760	13134.32	0.0012	P	4.7
3		500.000	504.690	1374573.23	0.1242	M	1.8
4		1250.000	1227.299	3379177.77	0.3020	A	3.2
5		2500.000	2511.705	6768145.38	0.6180	A	2.0
6		5000.000	5115.476	13258372.17	1.2587	A	5.2
7		10000.000	9941.939	26295105.79	2.4463	A	1.3
8				9851.55	0.0010	P	61.1

y = 2.4606E-004 * x + 4.0831E-006
R = 0.9999
DL = 0.02957
BEC = 0.01659

Weight: <None>
Min Conc: 0

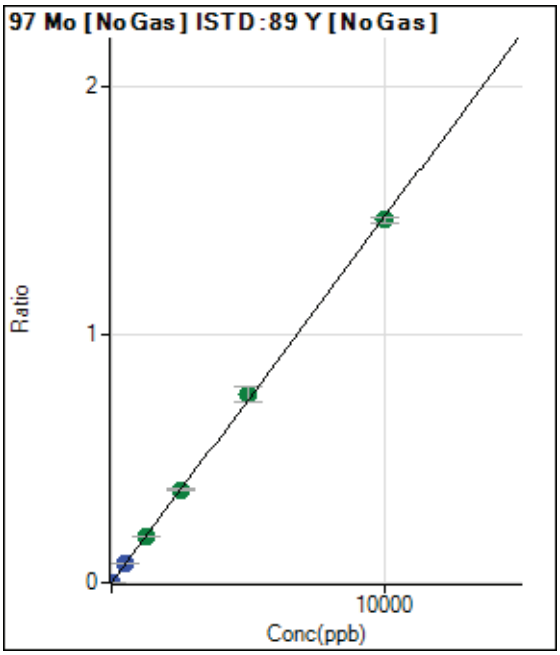


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	116.67	0.0000	P	26.3
2		5.000	4.947	14880.67	0.0013	P	6.2
3		500.000	527.860	1561199.70	0.1411	A	1.5
4		1250.000	1237.623	3700557.98	0.3307	A	2.9
5		2500.000	2498.770	7311561.10	0.6677	A	0.3
6		5000.000	5187.136	14586406.92	1.3860	A	7.3
7		10000.000	9906.894	28452437.44	2.6471	A	1.8
8				11619.37	0.0012	P	62.5

y = 2.6720E-004 * x + 1.0633E-005
R = 0.9997
DL = 0.03141
BEC = 0.03979

Weight: <None>
Min Conc: 0

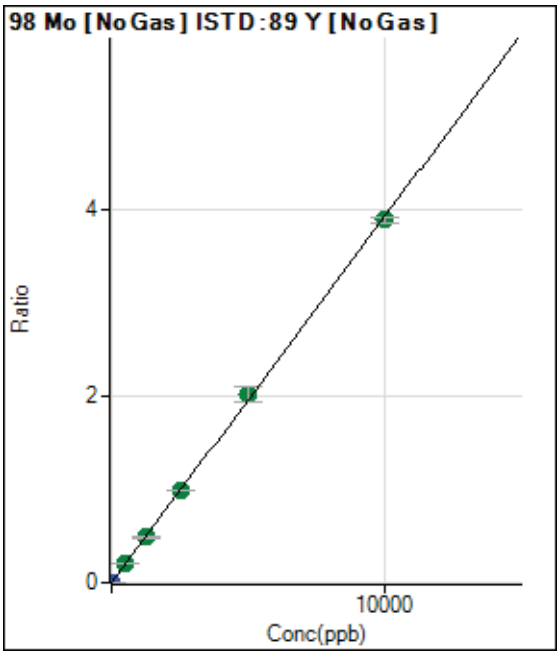
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	13.89	0.0000	P	36.0
2		5.000	4.627	7646.76	0.0007	P	9.1
3		500.000	511.264	835654.77	0.0755	P	1.4
4		1250.000	1251.312	2067937.03	0.1848	A	2.1
5		2500.000	2546.798	4118331.78	0.3761	A	0.8
6		5000.000	5141.251	7987459.21	0.7592	A	7.9
7		10000.000	9916.948	15740487.68	1.4644	A	1.7
8				6365.16	0.0007	P	65.8

y = 1.4767E-004 * x + 1.2688E-006
R = 0.9998
DL = 0.009268
BEC = 0.008592

Weight: <None>
Min Conc: 0

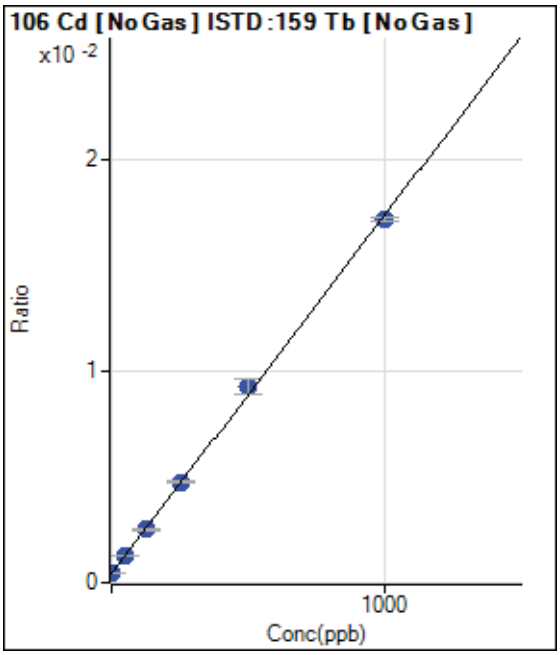


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	66.67	0.0000	P	18.9
2		5.000	4.633	20323.74	0.0018	P	5.4
3		500.000	522.145	2262499.92	0.2044	A	1.1
4		1250.000	1249.282	5472610.19	0.4890	A	2.7
5		2500.000	2535.507	10869089.74	0.9926	A	0.8
6		5000.000	5144.006	21189951.86	2.0137	A	7.6
7		10000.000	9918.103	41733074.89	3.8825	A	1.3
8				16183.30	0.0017	P	59.8

y = 3.9146E-004 * x + 6.0393E-006
R = 0.9998
DL = 0.008759
BEC = 0.01543

Weight: <None>
Min Conc: 0

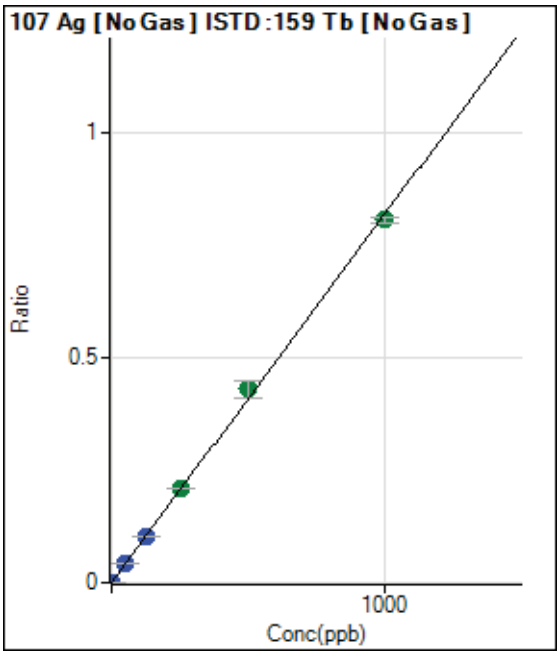
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	3481.10	0.0004	P	5.3
2		1.000	1.606	3761.73	0.0005	P	5.2
3		50.000	51.956	10810.11	0.0013	P	1.4
4		125.000	124.437	20974.86	0.0025	P	3.0
5		250.000	255.097	39663.36	0.0047	P	1.5
6		500.000	522.255	74800.43	0.0093	P	8.5
7		1000.000	987.570	140284.26	0.0171	P	1.2
8				2969.85	0.0004	P	7.8

y = 1.6925E-005 * x + 4.2568E-004
R = 0.9996
DL = 3.964
BEC = 25.15

Weight: <None>
Min Conc: 0

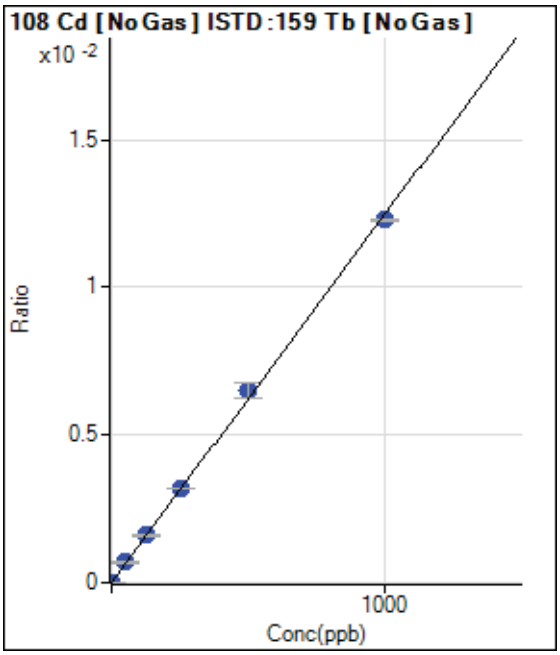


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	91.67	0.0000	P	55.9
2		1.000	0.974	6693.46	0.0008	P	4.5
3		50.000	50.616	342494.52	0.0413	P	0.7
4		125.000	124.475	842100.59	0.1017	P	1.4
5		250.000	257.657	1759773.02	0.2104	A	0.4
6		500.000	525.365	3462436.67	0.4290	A	9.3
7		1000.000	985.438	6586358.18	0.8048	A	1.6
8				1002.84	0.0001	P	7.4

y = 8.1665E-004 * x + 1.1130E-005
R = 0.9995
DL = 0.02285
BEC = 0.01363

Weight: <None>
Min Conc: 0

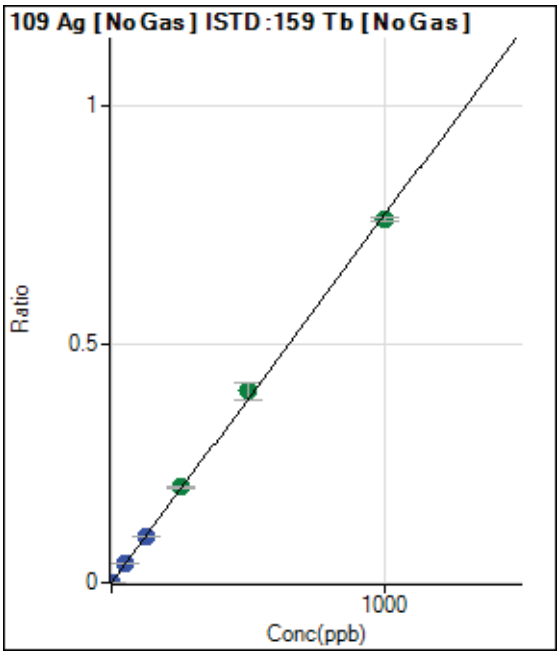
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	20.83	0.0000	P	19.8
2		1.000	1.032	127.78	0.0000	P	9.3
3		50.000	55.490	5742.94	0.0007	P	4.8
4		125.000	129.498	13374.70	0.0016	P	4.4
5		250.000	257.463	26831.81	0.0032	P	0.7
6		500.000	522.093	52519.04	0.0065	P	7.8
7		1000.000	986.251	100538.62	0.0123	P	0.3
8				126.39	0.0000	P	17.1

y = 1.2451E-005 * x + 2.5463E-006
R = 0.9996
DL = 0.1215
BEC = 0.2045

Weight: <None>
Min Conc: 0

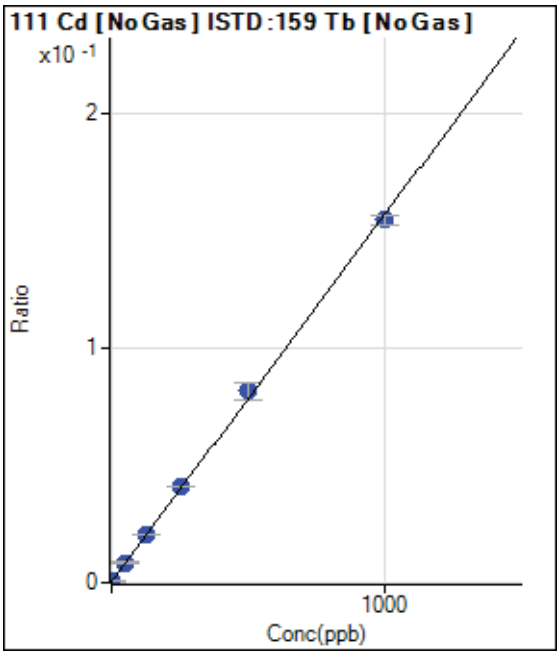


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	75.00	0.0000	P	33.1
2		1.000	0.973	6321.08	0.0008	P	3.9
3		50.000	51.797	331390.23	0.0400	P	0.7
4		125.000	126.308	807924.85	0.0975	P	1.6
5		250.000	260.524	1682541.17	0.2012	A	1.4
6		500.000	520.992	3245678.18	0.4023	A	9.6
7		1000.000	986.620	6235189.68	0.7618	A	0.9
8				902.83	0.0001	P	3.8

y = 7.7215E-004 * x + 9.1690E-006
R = 0.9996
DL = 0.01179
BEC = 0.01187

Weight: <None>
Min Conc: 0

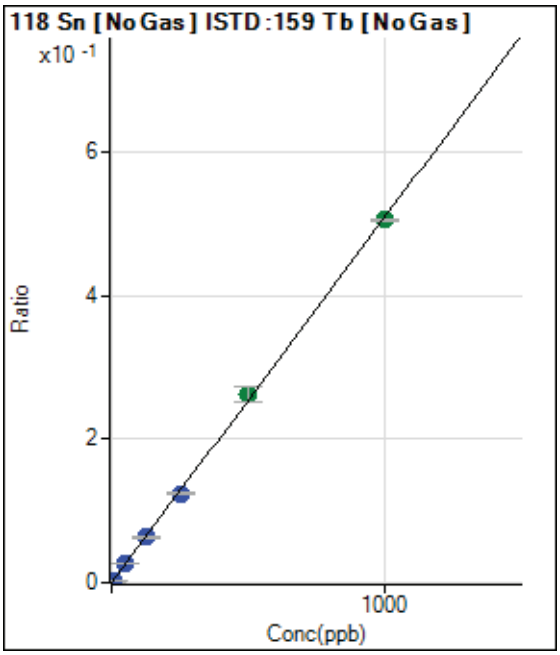
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2440.24	0.0003	P	5.4
2		1.000	1.128	3945.24	0.0005	P	5.3
3		50.000	53.013	71243.22	0.0086	P	0.7
4		125.000	129.460	170412.89	0.0206	P	1.2
5		250.000	258.230	340694.38	0.0407	P	0.3
6		500.000	521.013	660933.37	0.0819	P	9.0
7		1000.000	986.728	1267003.25	0.1548	P	2.4
8				2777.98	0.0004	P	16.5

y = 1.5661E-004 * x + 2.9841E-004
R = 0.9996
DL = 0.306
BEC = 1.905

Weight: <None>
Min Conc: 0

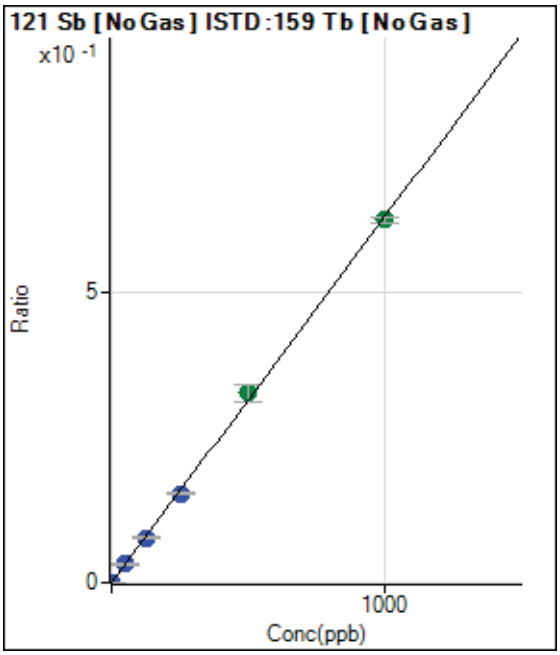


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	791.71	0.0001	P	9.3
2		5.000	4.604	20232.04	0.0024	P	4.1
3		50.000	50.098	211631.95	0.0255	P	0.5
4		125.000	123.844	521944.32	0.0630	P	1.9
5		250.000	244.563	1039871.25	0.1243	P	0.7
6		500.000	515.200	2113558.38	0.2618	A	8.6
7		1000.000	993.901	4133483.64	0.5050	A	0.8
8				3303.58	0.0005	P	28.3

y = 5.0803E-004 * x + 9.6749E-005
R = 0.9998
DL = 0.05319
BEC = 0.1904

Weight: <None>
Min Conc: 0

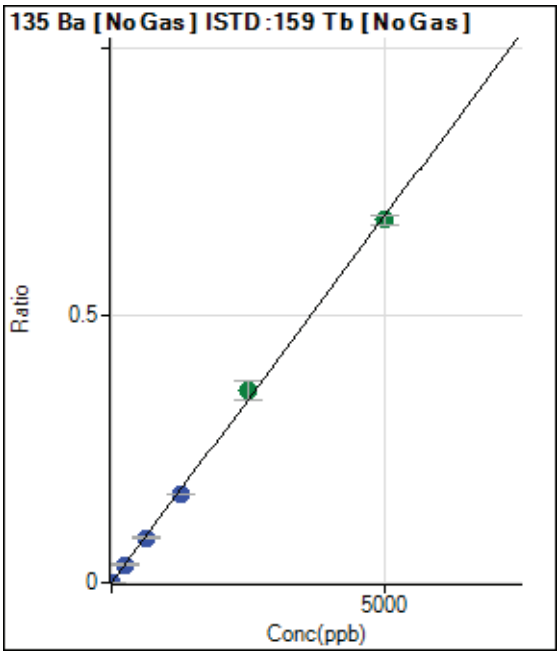
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	41.67	0.0000	P	73.9
2		2.000	1.844	9681.48	0.0012	P	0.7
3		50.000	50.304	262046.08	0.0316	P	2.3
4		125.000	123.189	641670.48	0.0775	P	2.2
5		250.000	243.860	1282495.99	0.1534	P	1.0
6		500.000	518.292	2631531.68	0.3259	A	8.2
7		1000.000	992.601	5108290.09	0.6242	A	1.5
8				3136.95	0.0004	P	32.0

y = 6.2883E-004 * x + 5.1352E-006
R = 0.9997
DL = 0.0181
BEC = 0.008166

Weight: <None>
Min Conc: 0

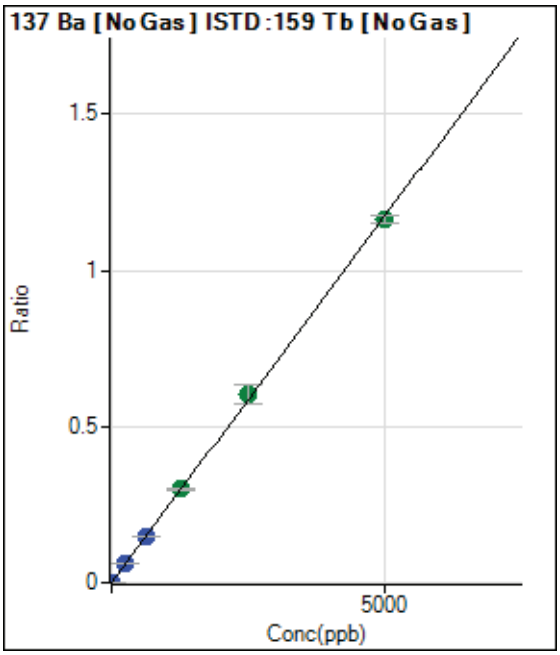


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	30.56	0.0000	P	55.8
2		10.000	9.352	10693.40	0.0013	P	2.5
3		250.000	248.943	282920.43	0.0342	P	0.7
4		625.000	611.147	694438.51	0.0838	P	1.8
5		1250.000	1208.680	1386689.44	0.1658	P	1.1
6		2500.000	2623.931	2905038.72	0.3600	A	9.0
7		5000.000	4950.150	5556612.58	0.6791	A	2.9
8				4407.16	0.0006	P	31.8

y = 1.3718E-004 * x + 3.7271E-006
R = 0.9995
DL = 0.0455
BEC = 0.02717

Weight: <None>
Min Conc: 0

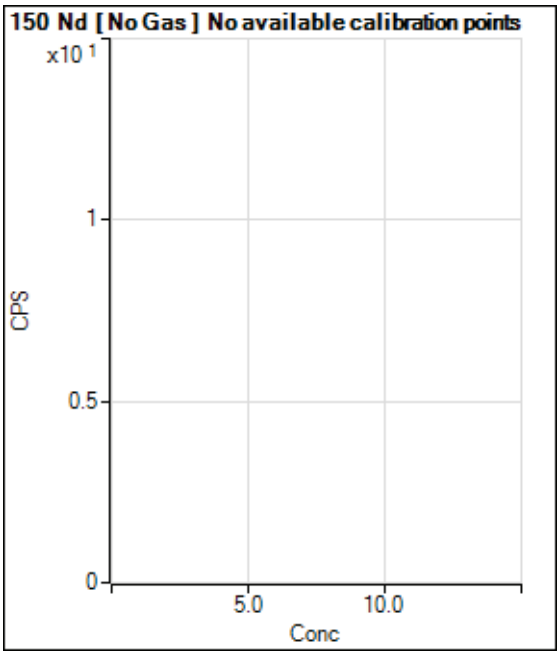
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	86.11	0.0000	P	37.9
2		10.000	9.381	18343.39	0.0022	P	5.8
3		250.000	252.933	491331.62	0.0593	P	0.8
4		625.000	627.295	1218277.70	0.1471	P	1.3
5		1250.000	1275.039	2499898.32	0.2989	A	0.5
6		2500.000	2578.149	4876811.74	0.6044	A	9.6
7		5000.000	4954.233	9505192.05	1.1615	A	2.2
8				9334.49	0.0013	P	14.0

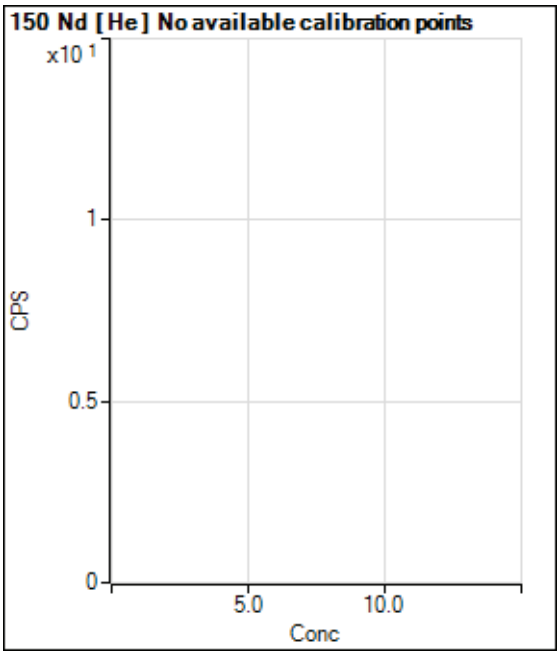
y = 2.3444E-004 * x + 1.0481E-005
R = 0.9998
DL = 0.05087
BEC = 0.0447

Weight: <None>
Min Conc: 0

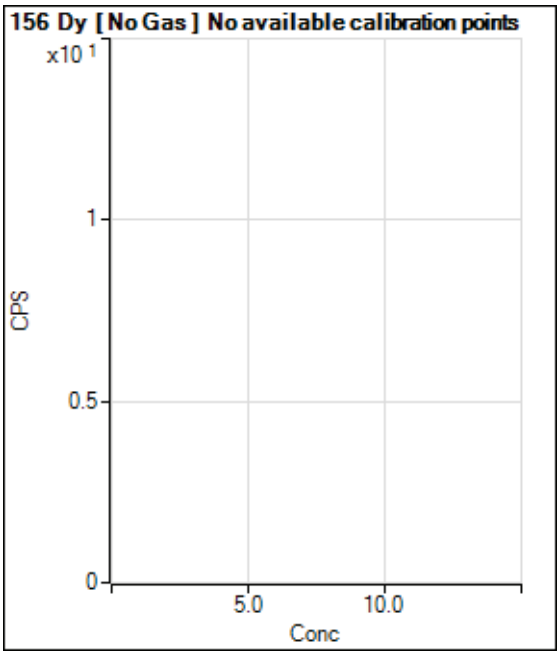


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				15.56		P	98.9
2				13.33		P	50.0
3				28.89		P	96.1
4				51.11		P	19.9
5				86.67		P	20.4
6				153.34		P	11.5
7				266.68		P	15.0
8				151.12		P	25.5

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

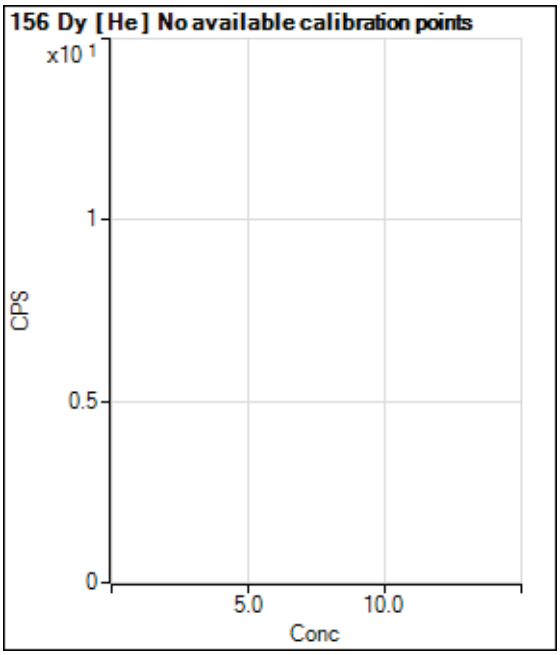


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				2.22		P	173.
2				6.67		P	173.
3				2.22		P	86.6
4				4.44		P	114.
5				6.66		P	86.6
6				15.56		P	32.7
7				20.00		P	28.9
8				57.78		P	21.8

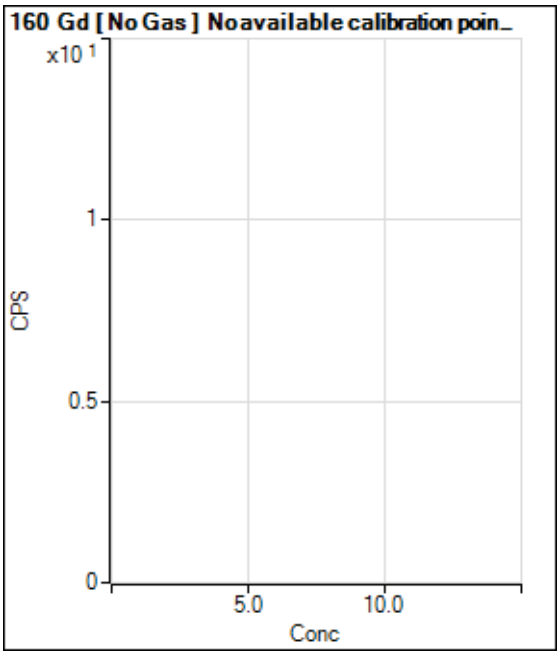


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				8.33		P	100.
2				5.55		P	86.6
3				38.89		P	44.6
4				36.11		P	48.0
5				88.89		P	28.6
6				219.45		P	11.6
7				280.57		P	3.4
8				1041.73		P	2.8

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

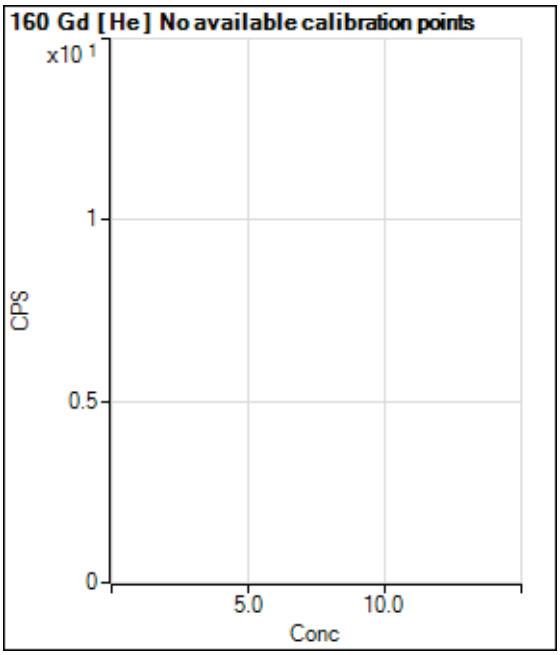


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				3.33		P	100.
2				2.22		P	86.6
3				10.00		P	66.7
4				32.22		P	6.0
5				51.11		P	32.2
6				77.78		P	19.3
7				181.12		P	9.3
8				480.01		P	5.5

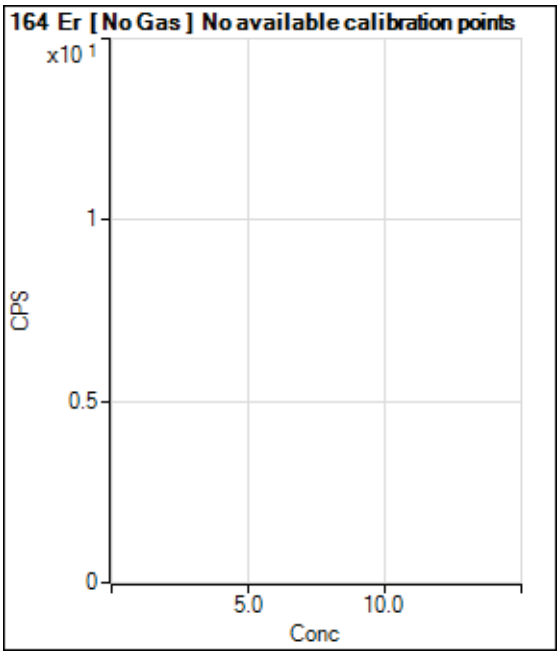


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				102.78		P	4.7
2				72.22		P	48.0
3				100.00		P	30.0
4				111.12		P	55.3
5				105.56		P	9.1
6				216.67		P	11.5
7				394.46		P	15.9
8				1136.20		P	13.6

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

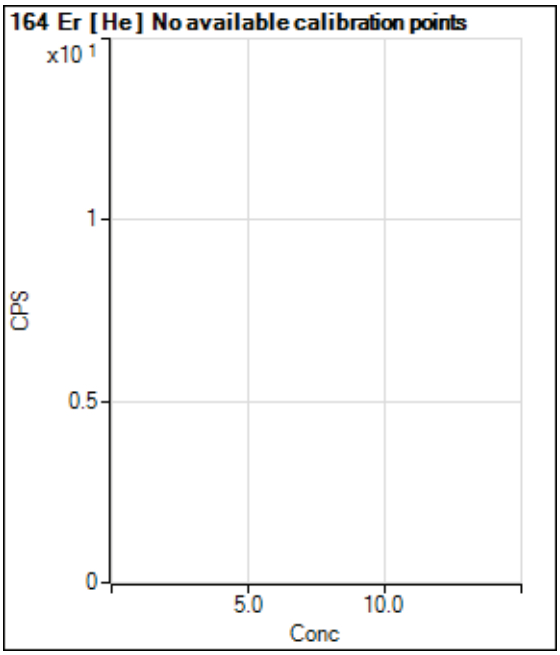


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				121.11		P	12.7
2				102.23		P	5.0
3				130.00		P	7.7
4				127.78		P	14.8
5				133.34		P	12.5
6				182.22		P	7.4
7				233.34		P	14.1
8				617.80		P	8.0

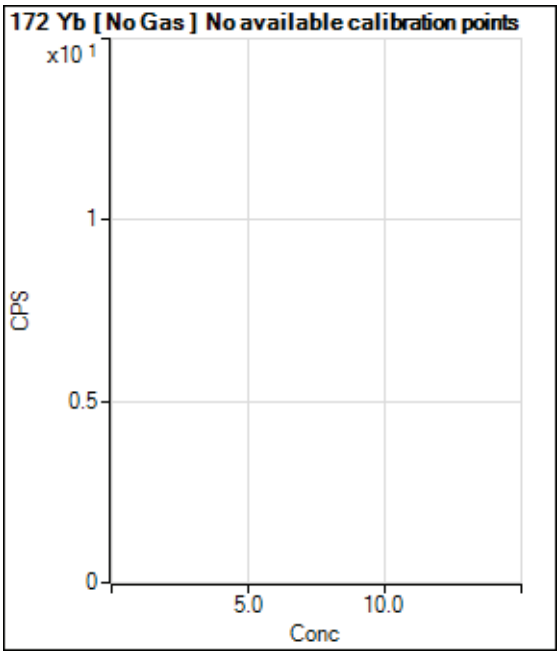


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				52.78		P	32.9
2				69.44		P	13.9
3				72.23		P	24.0
4				41.67		P	69.3
5				86.11		P	40.3
6				97.22		P	55.1
7				105.56		P	39.7
8				177.79		P	23.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

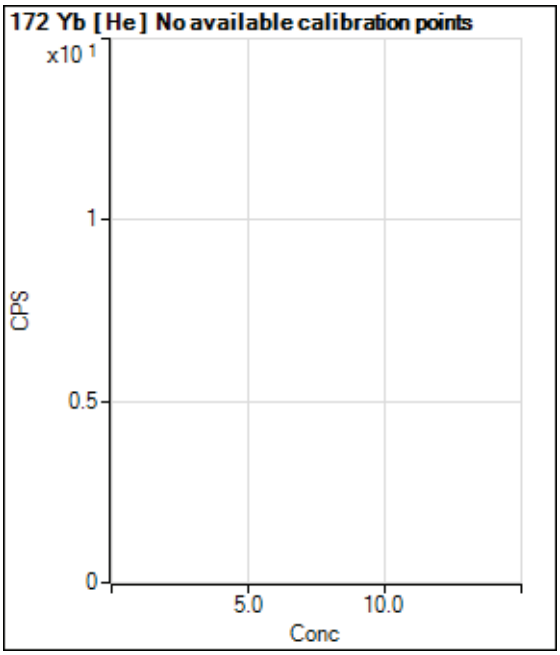


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				24.45		P	28.4
2				31.11		P	22.3
3				32.22		P	31.6
4				16.67		P	20.0
5				31.11		P	32.7
6				23.33		P	37.8
7				35.55		P	37.9
8				72.22		P	29.7

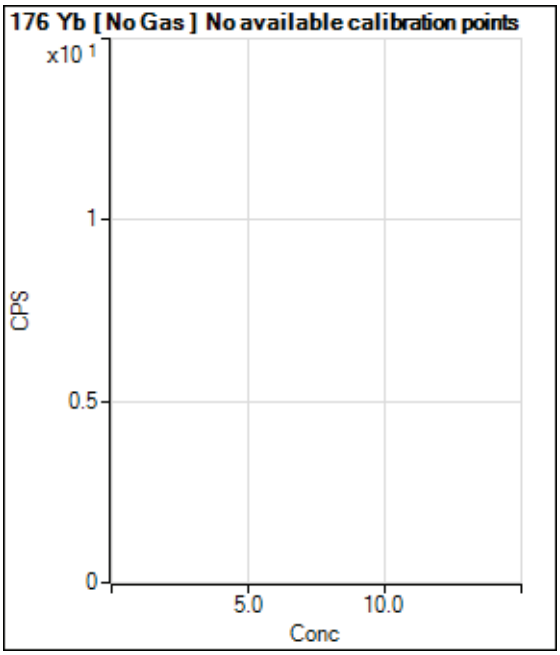


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				52.78		P	18.2
2				58.33		P	24.7
3				47.22		P	44.4
4				47.22		P	36.7
5				100.00		P	25.0
6				113.89		P	8.4
7				136.11		P	7.1
8				97.23		P	13.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

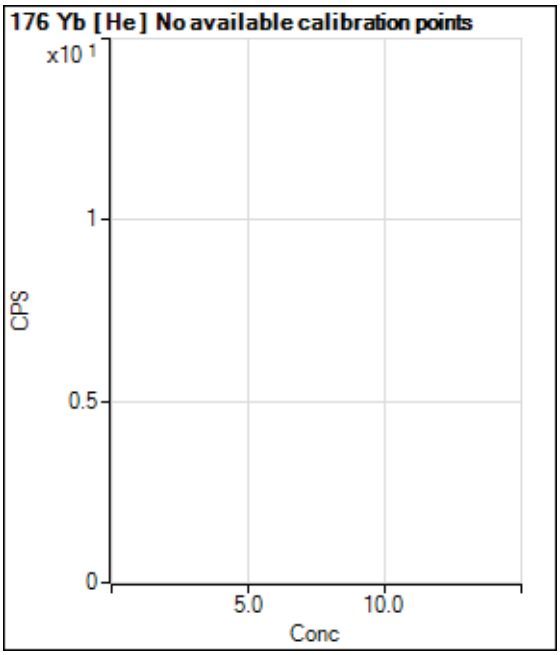


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				16.67		P	88.2
2				40.74		P	28.4
3				29.63		P	60.3
4				42.59		P	39.8
5				31.48		P	44.4
6				57.41		P	11.2
7				74.08		P	11.5
8				74.08		P	37.0

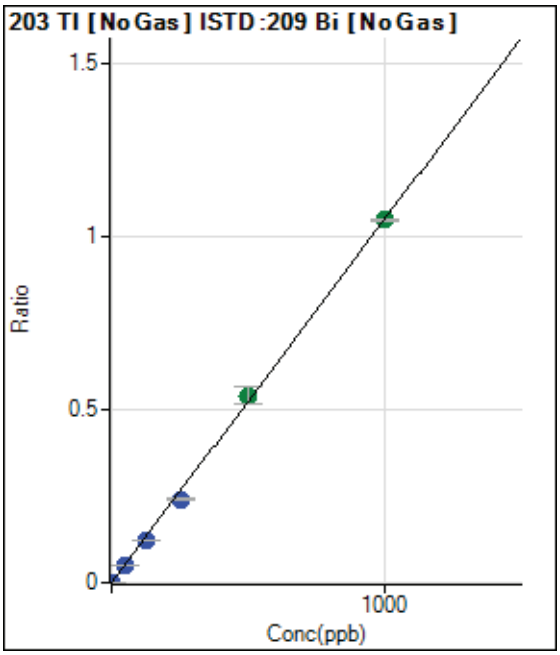


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				1133.42		P	2.7
2				1083.41		P	5.3
3				2175.24		P	3.4
4				3925.69		P	2.8
5				6565.71		P	2.3
6				11989.13		P	1.5
7				23507.62		P	2.3
8				1027.84		P	8.2

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1				9796.38		P	1.0
2				10148.51		P	5.1
3				10250.43		P	3.1
4				11025.16		P	1.8
5				11583.07		P	7.2
6				14411.78		P	1.7
7				18329.62		P	3.3
8				8278.67		P	8.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	216.67	0.0000	P	28.6
2		1.000	0.866	5184.53	0.0009	P	4.5
3		50.000	46.112	266703.56	0.0485	P	2.6
4		125.000	115.954	667823.47	0.1219	P	1.1
5		250.000	229.409	1334602.45	0.2411	P	1.4
6		500.000	514.612	2837834.70	0.5407	A	9.0
7		1000.000	999.167	5559323.61	1.0497	A	0.3
8				2267.43	0.0005	P	52.7

y = 0.0011 * x + 3.9725E-005

R = 0.9996

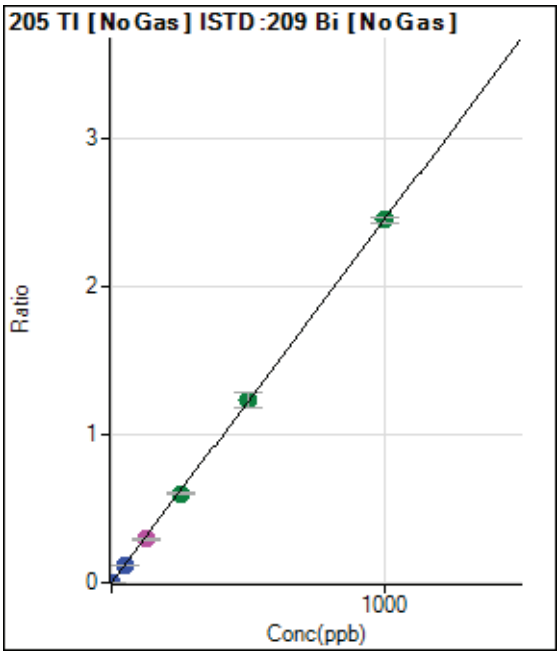
DL = 0.03243

BEC = 0.03781

Weight: <None>

Min Conc: 0

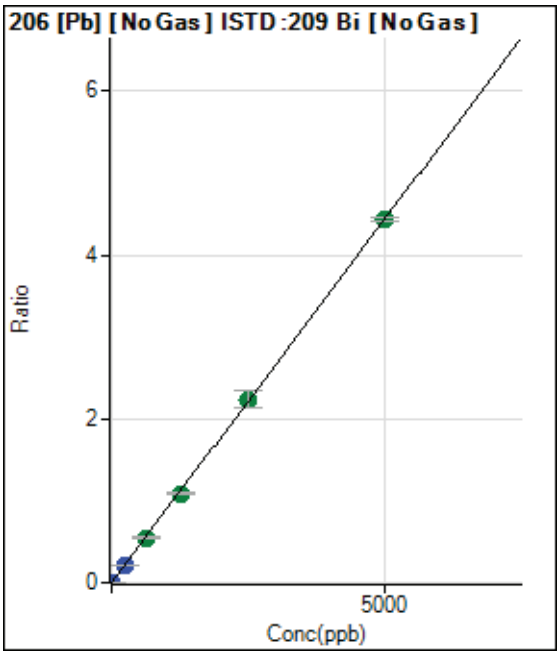
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	436.13	0.0001	P	13.5
2		1.000	0.875	12147.65	0.0022	P	4.4
3		50.000	47.942	647381.63	0.1177	P	1.7
4		125.000	121.680	1635832.16	0.2985	M	4.4
5		250.000	244.863	3325685.90	0.6007	A	1.8
6		500.000	504.292	6493027.97	1.2370	A	8.8
7		1000.000	999.656	12985589.70	2.4519	A	1.3
8				5304.57	0.0012	P	60.5

y = 0.0025 * x + 7.9576E-005
R = 1.0000
DL = 0.01311
BEC = 0.03244

Weight: <None>
Min Conc: 0

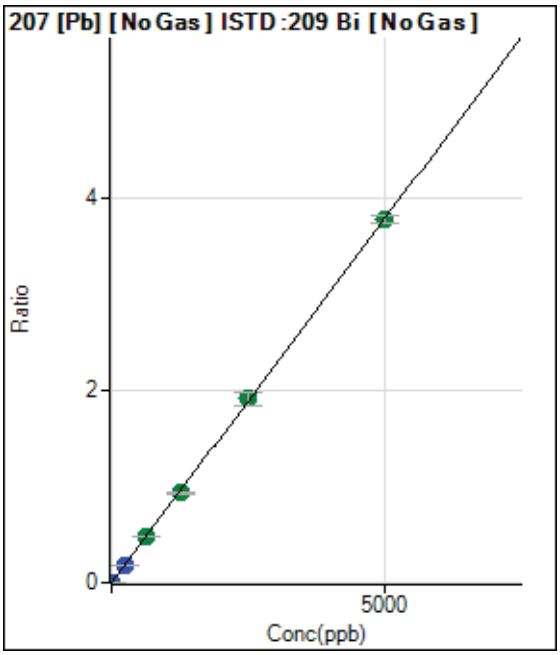


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	750.04	0.0001	P	1.9
2		1.000	0.891	5054.80	0.0009	P	3.7
3		250.000	230.654	1125526.27	0.2046	P	2.4
4		625.000	618.720	3006201.49	0.5486	A	1.3
5		1250.000	1226.519	6020040.12	1.0873	A	1.3
6		2500.000	2524.680	11744452.69	2.2380	A	9.4
7		5000.000	4995.283	23445631.54	4.4279	A	0.9
8				13824.95	0.0031	P	36.8

y = 8.8638E-004 * x + 1.3712E-004
R = 1.0000
DL = 0.008602
BEC = 0.1547

Weight: <None>
Min Conc: 0

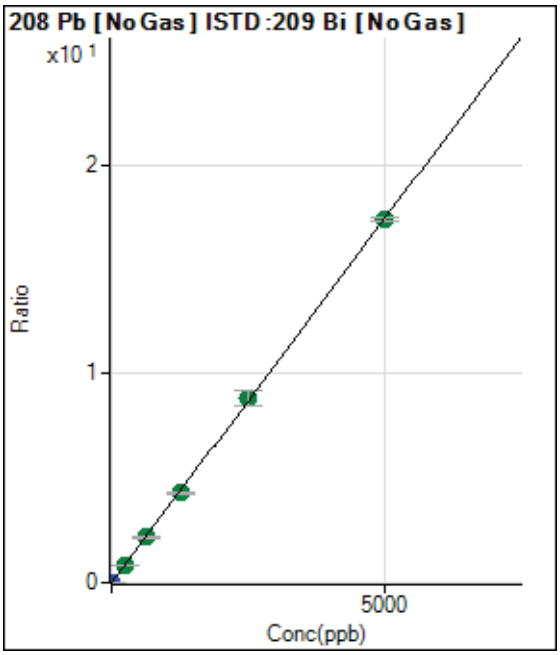
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	575.95	0.0001	P	4.8
2		1.000	0.905	4308.22	0.0008	P	4.5
3		250.000	235.135	977757.49	0.1777	P	2.0
4		625.000	626.711	2594863.14	0.4735	A	1.5
5		1250.000	1230.384	5146173.44	0.9295	A	1.9
6		2500.000	2532.804	10048232.17	1.9133	A	7.6
7		5000.000	4989.031	19951127.30	3.7686	A	2.2
8				13327.48	0.0029	P	25.5

y = 7.5536E-004 * x + 1.0533E-004
R = 1.0000
DL = 0.01997
BEC = 0.1394

Weight: <None>
Min Conc: 0

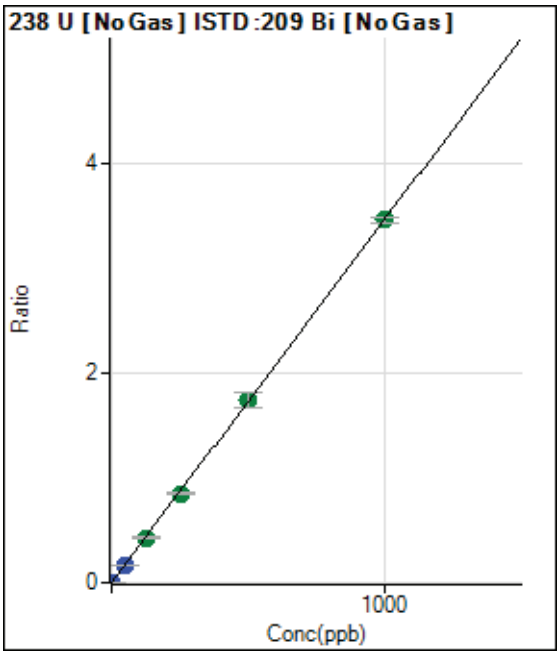


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	2870.56	0.0005	P	4.7
2		1.000	0.892	19815.57	0.0036	P	2.7
3		250.000	245.177	4703088.71	0.8549	A	2.0
4		625.000	623.240	11905054.17	2.1722	A	0.9
5		1250.000	1229.516	23723322.63	4.2848	A	1.6
6		2500.000	2537.726	46420619.21	8.8433	A	8.8
7		5000.000	4986.719	92005654.37	17.3769	A	1.2
8				54973.87	0.0122	P	35.0

y = 0.0035 * x + 5.2499E-004
R = 0.9999
DL = 0.02129
BEC = 0.1507

Weight: <None>
Min Conc: 0

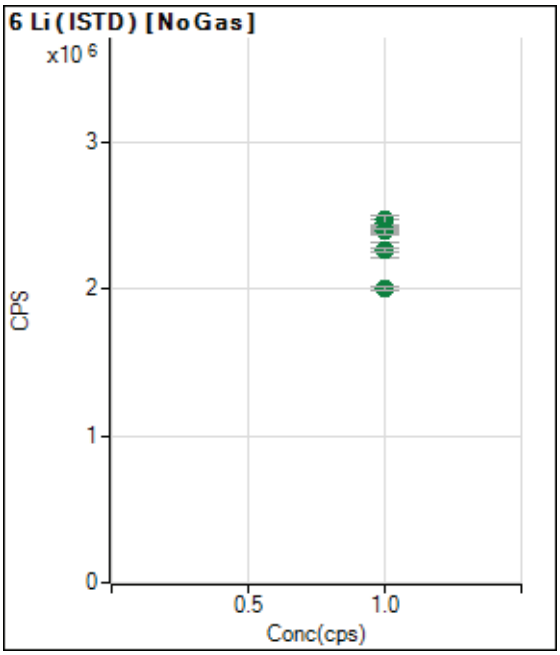
Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		0.000	0.000	52.78	0.0000	P	18.0
2		1.000	0.904	17095.32	0.0031	P	3.8
3		50.000	47.039	894408.41	0.1626	P	1.6
4		125.000	123.881	2346149.75	0.4281	A	2.5
5		250.000	244.947	4686454.71	0.8465	A	1.6
6		500.000	503.677	9135622.60	1.7406	A	9.1
7		1000.000	999.713	18290245.37	3.4548	A	1.8
8				5567.90	0.0012	P	88.4

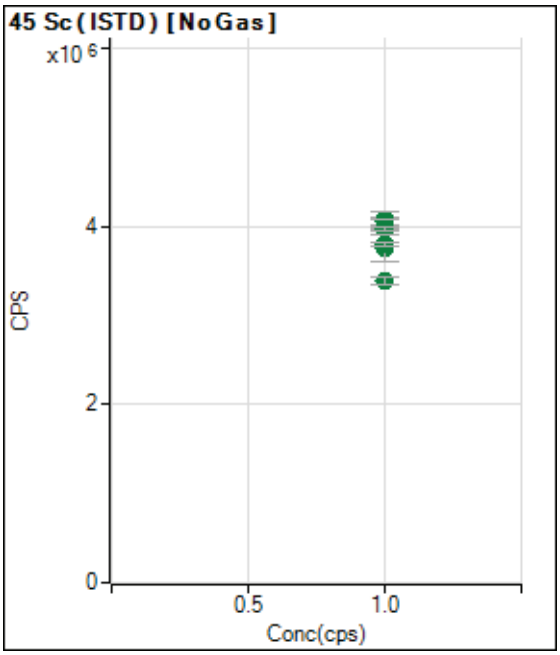
y = 0.0035 * x + 9.6448E-006
R = 1.0000
DL = 0.001505
BEC = 0.002791

Weight: <None>
Min Conc: 0

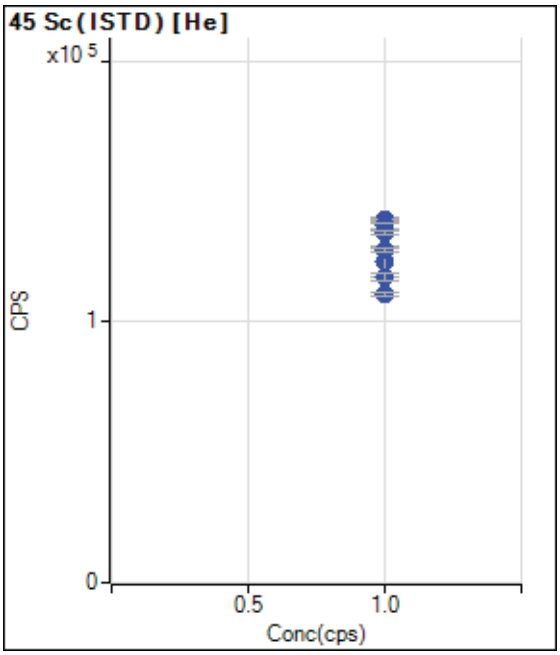


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2454345.01		A	1.3
2		1.000		2405892.08		A	1.1
3		1.000		2470405.58		A	2.5
4		1.000		2393775.29		A	1.1
5		1.000		2390234.92		A	1.8
6		1.000		2268507.84		A	4.4
7		1.000		2261451.33		A	1.4
8		1.000		2000427.15		A	1.3

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

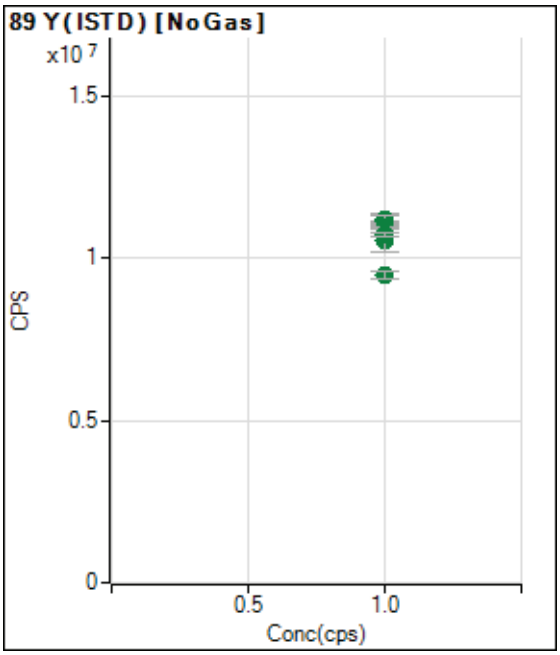


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		4046413.03		A	2.0
2		1.000		4069977.23		A	5.0
3		1.000		4054768.31		A	2.3
4		1.000		4046277.33		A	1.4
5		1.000		3969418.55		A	1.4
6		1.000		3754720.26		A	8.5
7		1.000		3800693.28		A	0.8
8		1.000		3386159.39		A	2.1

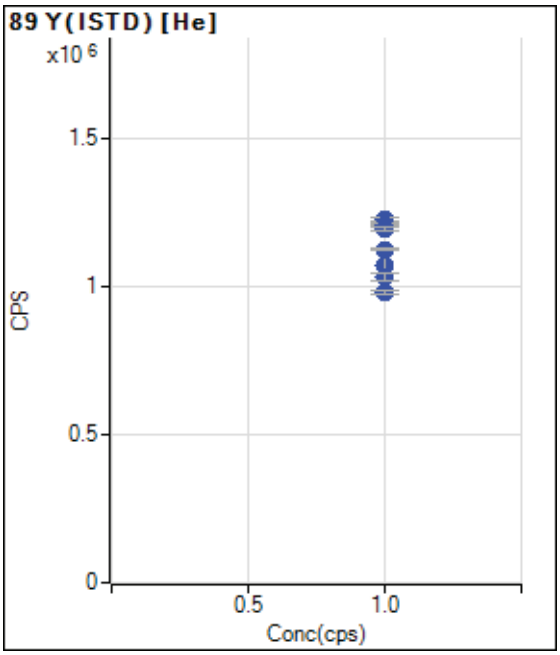


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		138990.83		P	1.1
2		1.000		139019.96		P	0.5
3		1.000		136997.99		P	1.7
4		1.000		134238.47		P	1.2
5		1.000		123078.86		P	9.8
6		1.000		127661.59		P	1.4
7		1.000		117101.27		P	3.0
8		1.000		110398.50		P	1.4

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

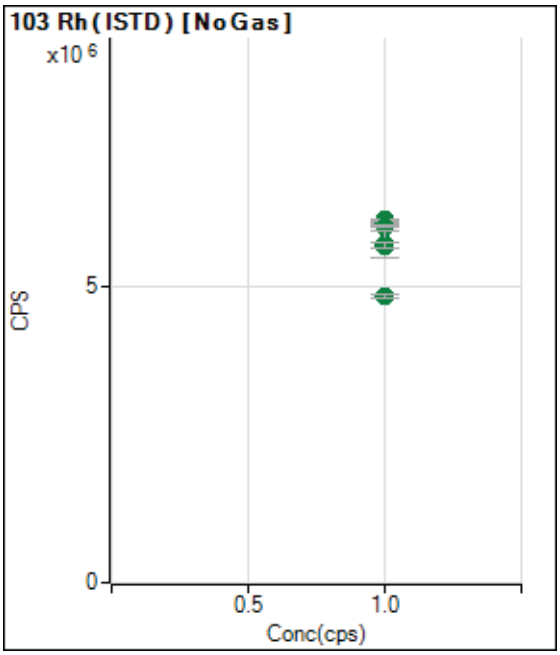


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		10995011.09		A	3.2
2		1.000		11183817.33		A	3.6
3		1.000		11069050.11		A	0.8
4		1.000		11195083.58		A	2.4
5		1.000		10950774.28		A	0.4
6		1.000		10557361.65		A	6.6
7		1.000		10750049.42		A	1.2
8		1.000		9504659.44		A	2.3

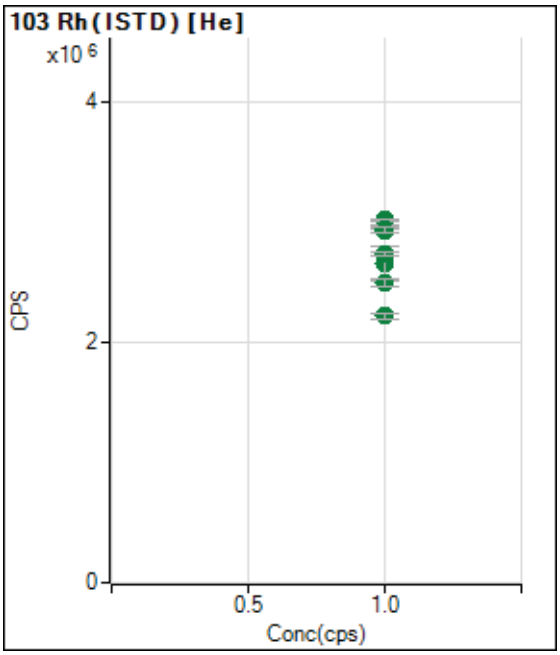


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1206524.06		P	0.6
2		1.000		1226867.07		P	1.1
3		1.000		1209813.45		P	1.0
4		1.000		1194638.99		P	1.3
5		1.000		1073820.47		P	10.0
6		1.000		1127657.01		P	0.4
7		1.000		1031938.70		P	2.5
8		1.000		981549.92		P	1.4

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

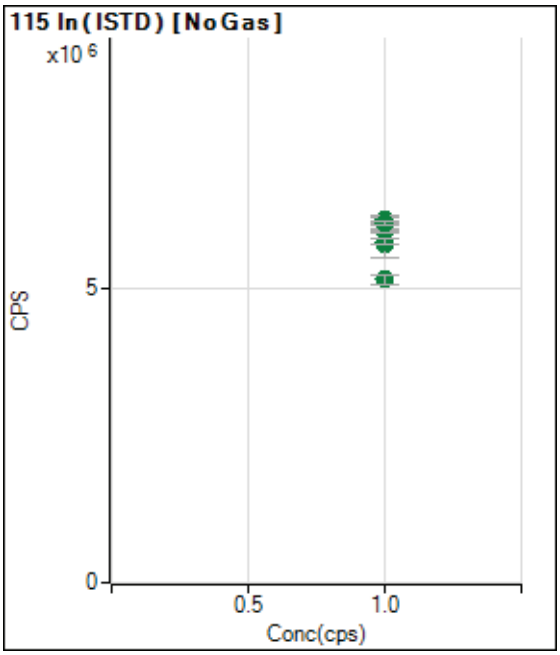


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6092489.98		A	1.3
2		1.000		6032156.95		A	3.5
3		1.000		6049461.07		A	1.5
4		1.000		6117256.47		A	0.3
5		1.000		6008640.02		A	0.5
6		1.000		5708595.40		A	8.0
7		1.000		5681466.92		A	1.9
8		1.000		4831476.49		A	1.4

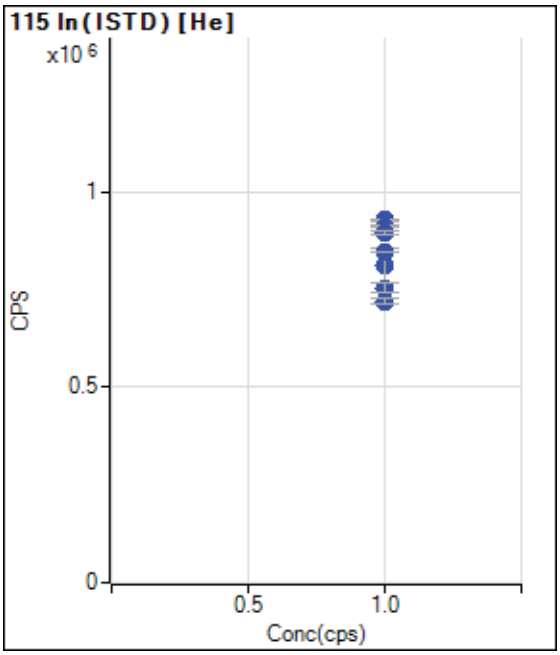


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2956136.24		A	1.0
2		1.000		3020581.62		A	0.4
3		1.000		2947501.52		A	2.3
4		1.000		2936463.11		A	1.3
5		1.000		2653034.32		A	11.1
6		1.000		2741942.74		A	1.3
7		1.000		2493181.21		A	2.4
8		1.000		2221765.21		A	2.1

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

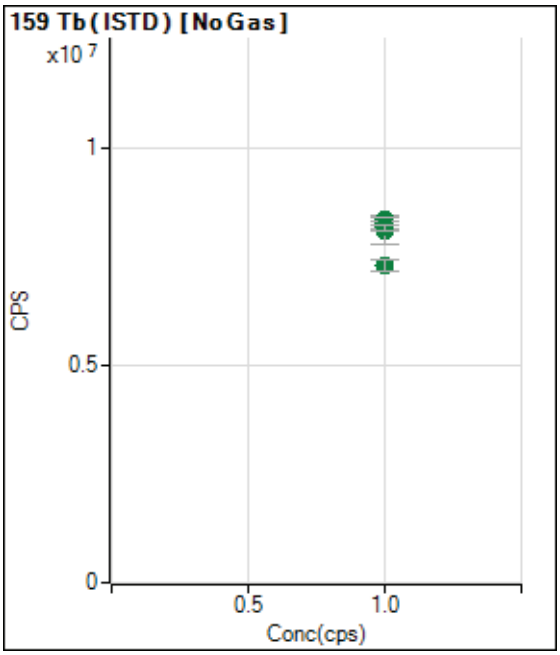


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		6023477.06		A	1.8
2		1.000		6161737.50		A	2.2
3		1.000		6116583.89		A	3.0
4		1.000		5991026.11		A	0.5
5		1.000		6106464.56		A	0.7
6		1.000		5743807.40		A	7.5
7		1.000		5789182.08		A	1.5
8		1.000		5153913.61		A	3.1

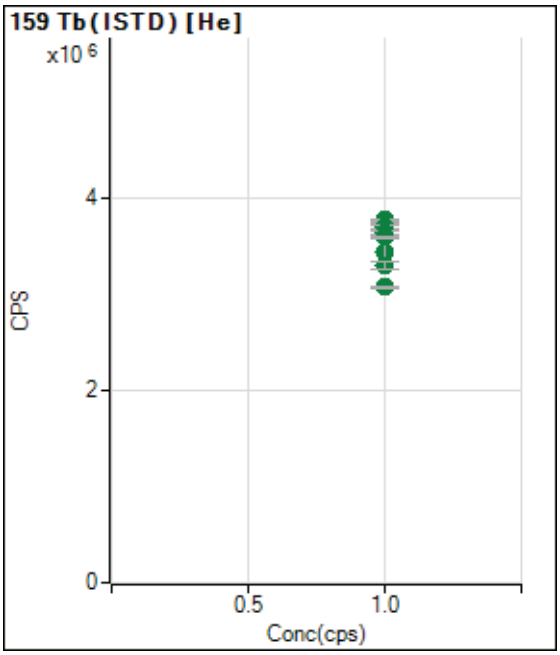


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		913266.68		P	0.5
2		1.000		928236.35		P	0.3
3		1.000		912496.05		P	0.4
4		1.000		895065.41		P	0.9
5		1.000		811011.62		P	10.9
6		1.000		847463.83		P	0.2
7		1.000		754527.47		P	3.1
8		1.000		720095.14		P	1.7

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

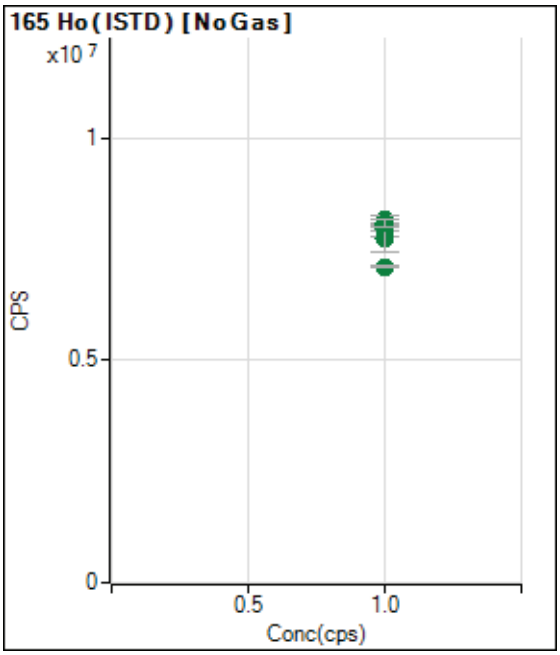


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		8182734.88		A	1.8
2		1.000		8311807.79		A	3.7
3		1.000		8283823.63		A	0.9
4		1.000		8284161.96		A	1.2
5		1.000		8362826.61		A	1.0
6		1.000		8108271.06		A	7.7
7		1.000		8185321.89		A	1.6
8		1.000		7304827.39		A	3.8

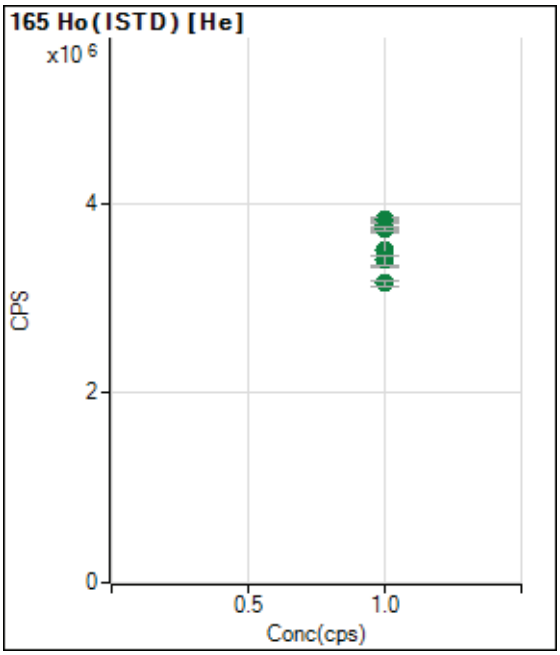


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3704689.39		A	1.6
2		1.000		3768942.58		A	0.6
3		1.000		3694135.67		A	0.9
4		1.000		3632564.98		A	0.9
5		1.000		3436727.52		A	10.2
6		1.000		3587259.94		A	1.0
7		1.000		3291334.05		A	2.3
8		1.000		3068751.38		A	0.6

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

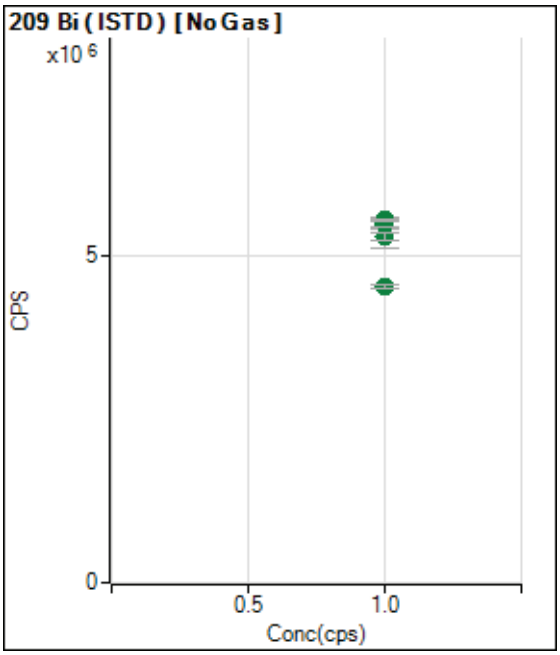


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		7935436.46		A	3.6
2		1.000		8156572.23		A	3.0
3		1.000		7984484.64		A	1.8
4		1.000		8001294.36		A	0.2
5		1.000		8036463.03		A	1.2
6		1.000		7721747.22		A	7.6
7		1.000		8102803.05		A	2.1
8		1.000		7110994.26		A	0.3

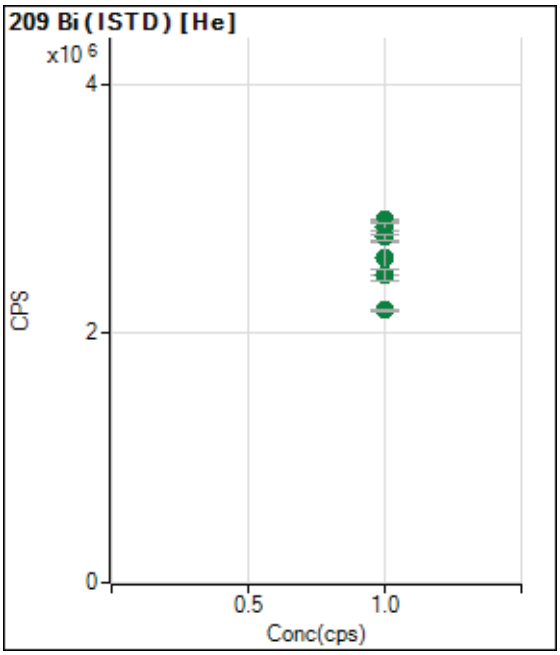


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		3775830.81		A	2.8
2		1.000		3822182.20		A	1.2
3		1.000		3793896.02		A	0.5
4		1.000		3764827.90		A	1.1
5		1.000		3509217.73		A	10.1
6		1.000		3729990.36		A	0.9
7		1.000		3399964.36		A	2.9
8		1.000		3150905.47		A	1.5

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		5471201.00		A	1.9
2		1.000		5458444.85		A	2.3
3		1.000		5503371.38		A	2.8
4		1.000		5480888.53		A	1.5
5		1.000		5536773.11		A	0.7
6		1.000		5268907.73		A	6.4
7		1.000		5295644.85		A	2.2
8		1.000		4525906.32		A	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2902350.65		A	0.5
2		1.000		2908783.15		A	0.8
3		1.000		2887048.08		A	0.3
4		1.000		2847395.31		A	2.0
5		1.000		2602059.47		A	10.2
6		1.000		2768983.46		A	1.4
7		1.000		2462349.72		A	3.5
8		1.000		2186286.76		A	0.8

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8
ClientSampleId :TUNE076

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8071423-MS.b
Acq. Date-Time	2023-07-14 13:05:28
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7814	78144.49			0.517	5.000
24		313870	3138703.03			0.559	5.000
25		41387	413870.57			0.269	5.000
26		48481	484811.78			0.646	5.000
59		58202	582017.72			0.608	5.000
113		6496	64958.23			0.869	5.000
115		83208	832076.10			1.577	5.000
206		21333	213334.85			0.599	5.000
207		19020	190203.84			0.995	5.000
208		45419	454187.49			0.845	5.000
220		0	2.30			62.630	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

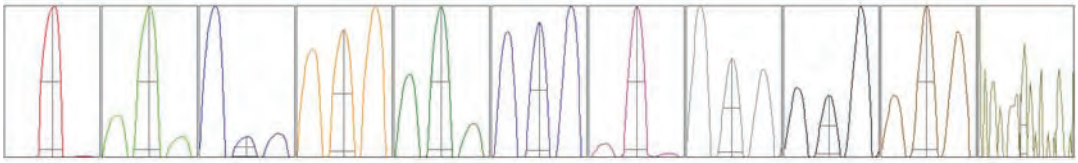
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7861	7772	7852	7784	7803
24	314209	310829	315360	314422	314532
25	41468	41512	41264	41410	41280
26	49000	48179	48317	48499	48411
59	58804	58211	58070	57908	58015
113	6568	6513	6478	6413	6507
115	84264	83355	84412	81166	82841
206	21470	21347	21428	21273	21149
207	19239	19120	19082	18761	18900
208	45713	45723	45659	45022	44977

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13422.67	9.05	8.90 - 9.10	
24	536212.14	24.00	23.90 - 24.10	
25	70803.99	25.00	24.90 - 25.10	
26	83778.92	26.00	25.90 - 26.10	
59	107431.45	59.00	58.90 - 59.10	
113	12768.05	113.05	112.90 - 113.10	
115	162458.36	115.05	114.90 - 115.10	
206	41293.32	205.95	205.90 - 206.10	
207	36585.39	206.95	206.90 - 207.10	
208	89242.56	207.95	207.90 - 208.10	
220	0.25	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.740	0.900	
24	0.62	0.820	0.900	
25	0.62	0.784	0.900	
26	0.61	0.787	0.900	
59	0.56	0.778	0.900	
113	0.53	0.735	0.900	
115	0.53	0.732	0.900	
206	0.53	0.780	0.900	
207	0.53	0.781	0.900	
208	0.53	0.801	0.900	
220	0.21	0.246		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.3 V	Deflect	14.6 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	130 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.7 mm	Torch V	-1.0 mm

EM

Discriminator	4.4 mV	Analog HV	2321 V	Pulse HV	1643 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14013	140130.58			0.336	
89		32702	327019.90			0.841	
205		18159	181588.94			0.539	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14003	14045	14046	13935	14037
89	32766	32276	33037	32763	32668
205	18224	18026	18227	18082	18235

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.3 V	Deflect	4.0 V

US EPA Tune Check Report

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8
ClientSampleId :TUNE076

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-120 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.7 mm	Torch V	-1.0 mm

EM

Discriminator	4.4 mV	Analog HV	2321 V	Pulse HV	1643 V

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.44	0.09	0.35	0.00	N/A	ppb
Antimony	121-1	0.01	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.03	0.00	0.03	0.00	N/A	ppb
Barium	135-1	0.00	-0.01	0.02	0.00	N/A	ppb
Barium	137-1	-0.02	0.02	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.01	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.00	-0.04	0.04	0.00	N/A	ppb
Cadmium	106-1	1.52	-0.89	-0.63	0.00	N/A	ppb
Cadmium	111-1	0.12	-0.07	-0.05	0.00	N/A	ppb
Calcium	43-1	0.58	0.11	-0.69	0.00	N/A	ppb
Calcium	44-1	5.25	-1.22	-4.03	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.02	-0.02	0.00	N/A	ppb
Cobalt	59-2	-0.01	0.00	0.01	0.00	N/A	ppb
Copper	63-2	-0.03	0.00	0.02	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	-0.12	-0.50	0.62	0.00	N/A	ppb
Iron	56-2	-0.18	-0.10	0.28	0.00	N/A	ppb
Iron	57-2	-0.95	-0.21	1.16	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.00	-0.01	0.00	N/A	ppb
Lead	208-1	0.01	0.00	-0.01	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	-0.52	-0.37	0.89	0.00	N/A	ppb
Manganese	55-2	-0.03	0.00	0.03	0.00	N/A	ppb
Molybdenum	94-1	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.01	-0.01	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.01	0.03	0.00	N/A	ppb
Phosphorus	31-2	-2.06	-11.73	13.86	0.02	58822.83	ppb
Potassium	39-2	-2.55	-1.14	3.69	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.23	-0.07	-0.16	0.00	N/A	ppb
Selenium	77-2	-0.01	-1.05	1.06	0.00	N/A	ppb
Selenium	78-2	0.22	0.12	-0.34	0.00	N/A	ppb
Silicon	28-1	1.82	-0.91	-0.91	0.00	N/A	ppb
Silver	107-1	-0.01	0.00	0.01	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-1.14	0.55	0.60	0.00	N/A	ppb
Strontium	86-1	0.01	0.03	-0.03	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	325.87	-304.98	-161.12	-46.74		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.00	-0.01	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	-0.02	0.02	0.00	N/A	ppb
Titanium	47-1	0.06	-0.04	-0.02	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	0.01	0.01	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.09	-0.13	0.04	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	-0.01	-0.01	0.02	0.00	N/A	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:49:22	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.97	19.53	19.02	19.84	5.09	ppb
Antimony	121-1	1.83	1.84	1.86	1.84	0.68	ppb
Arsenic	75-2	0.85	0.88	1.06	0.93	12.10	ppb
Barium	135-1	9.32	9.60	9.14	9.35	2.47	ppb
Barium	137-1	9.91	9.42	8.81	9.38	5.86	ppb
Beryllium	9-1	1.05	1.07	1.07	1.06	0.98	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.14	0.91	1.05	1.03	11.17	ppb
Cadmium	106-1	2.04	2.74	0.04	1.61	87.07	ppb
Cadmium	111-1	1.22	1.22	0.94	1.13	14.38	ppb
Calcium	43-1	486.07	439.53	444.22	456.61	5.61	ppb
Calcium	44-1	487.41	439.09	439.80	455.43	6.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.81	1.75	1.97	1.84	6.25	ppb
Cobalt	59-2	0.85	0.96	0.89	0.90	6.04	ppb
Copper	63-2	1.85	1.84	1.86	1.85	0.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				102		%
Iron	54-2	49.96	49.87	55.03	51.62	5.72	ppb
Iron	56-2	48.47	48.14	47.89	48.17	0.60	ppb
Iron	57-2	50.91	49.51	50.35	50.26	1.41	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.86	0.88	0.89	4.33	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:49:22	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.90	0.95	0.86	0.90	5.14	ppb
Lead	208-1	0.92	0.87	0.88	0.89	3.18	ppb
Lithium	6-1				98		%
Magnesium	24-2	465.47	471.50	466.07	467.68	0.71	ppb
Manganese	55-2	0.81	0.90	1.00	0.90	10.45	ppb
Molybdenum	94-1	5.77	5.29	5.17	5.41	5.84	ppb
Molybdenum	95-1	4.83	4.51	4.95	4.76	4.75	ppb
Molybdenum	96-1	5.25	4.63	4.97	4.95	6.27	ppb
Molybdenum	97-1	5.07	4.57	4.24	4.63	9.07	ppb
Molybdenum	98-1	4.91	4.42	4.57	4.63	5.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.04	1.04	0.98	1.02	3.36	ppb
Phosphorus	31-2	-0.82	2.27	-1.52	-0.02		ppb
Potassium	39-2	459.48	459.79	476.76	465.34	2.13	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	4.90	4.33	4.68	4.64	6.19	ppb
Selenium	77-2	5.13	4.04	8.32	5.83	38.13	ppb
Selenium	78-2	3.77	5.01	4.20	4.33	14.55	ppb
Silicon	28-1	14.23	7.52	6.91	9.55	42.47	ppb
Silver	107-1	1.03	0.95	0.95	0.97	4.60	ppb
Silver	109-1	0.98	0.93	1.01	0.97	3.99	ppb
Sodium	23-2	474.09	476.05	464.88	471.67	1.26	ppb
Strontium	86-1	1.11	0.95	0.78	0.95	17.16	ppb
Strontium	88-1	1.02	0.91	0.94	0.96	5.70	ppb
Sulfur	34-1	728.31	-360.42	-227.66	46.74	1270.71	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.90	0.87	0.82	0.87	4.68	ppb
Thallium	205-1	0.92	0.85	0.86	0.88	4.59	ppb
Tin	118-1	4.69	4.74	4.38	4.60	4.27	ppb
Titanium	47-1	4.74	4.92	4.87	4.84	1.96	ppb
Uranium	238-1	0.93	0.86	0.92	0.90	3.80	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:49:22	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.52	4.52	4.72	4.58	2.50	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				102		%
Zinc	66-2	2.60	2.30	2.41	2.44	6.27	ppb
Zirconium	90-1	0.94	0.83	0.89	0.89	6.44	ppb
Zirconium	91-1	0.85	0.93	0.90	0.89	4.79	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
5 lient Sample ID :	S03	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:92:26	Data. ile Name :	0065 ALSC

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARVC5 oncC	5 oncUSD	F nits
Aluminium	27-2	67.10	1010.63	77.79	89.16	2.30	ppb
Antimony	121-1	91.14	48.01	90.78	90.30	2.2	ppb
Arsenic	79-2	90.77	48.70	48.63	4.37	2.46	ppb
Barium	139-1	290.13	24.88	246.81	248.14	0.74	ppb
Barium	137-1	291.12	294.16	292.71	292.13	0.76	ppb
Beryllium	1	91.18	4.01	90.77	90.32	2.2	ppb
Bismuth	20-1				101		%
Bismuth	20-2						%
Bromine	81-1						cps
5 admium	108-1	97.63	92.91	96.33	99.4	4.7	ppb
5 admium	106-1	93.18	91.37	91.32	91.16	2.04	ppb
5 admium	111-1	93.44	92.77	92.83	93.01	0.70	ppb
5 alcium	43-1	9807.91	998.31	9967.98	9694.30	2.39	ppb
5 alcium	44-1	9811.84	9900.97	9673.90	9661.17	2.79	ppb
5 arbon	12-1						cps
5 arbon	12-2						cps
5 hlorine	39-1						cps
5 hlorine	39-2						cps
5 hromium	92-2	48.08	48.93	46.11	47.97	2.71	ppb
5 obalt	9-2	48.39	48.99	48.39	48.42	0.24	ppb
5 opper	63-2	487.87	4.68	486.16	4.09.97	1.12	ppb
Dysprosium	196-1						cps
Dysprosium	196-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	169-1				101		%
Holmium	169-2				100		%
Indium	119-1				102		%
Indium	119-2				100		%
Iron	94-2	2967.49	2602.87	2971.16	2980.76	0.79	ppb
Iron	96-2	2978.17	26.8.47	2634.11	2636.12	2.28	ppb
Iron	97-2	2912.08	2998.48	2480.4	2917.02	1.96	ppb
Krypton	83-1						cps
Lead	206-1	237.04	226.71	228.22	230.69	2.42	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
5 lient Sample ID :	S03	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:92:26	Data. ile Name :	0065 ALSG

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARvC5 oncC	5 oncUSD	F nits
Lead	207-1	240.49	231.66	233.30	239.13	10.M	ppb
Lead	208-1	290.72	241.08	243.73	249.18	2.03	ppb
Lithium	6-1				101		%
g avnesium	24-2	9060.06	9398.78	9119.86	9178.23	3.07	ppb
g anvanese	99-2	468.M2	484.08	466.M	473.03	2.04	ppb
g olybdenum	M4-1	909.37	4MM.43	90M.M4	904.M1	1.04	ppb
g olybdenum	M9-1	902.14	4M7.27	914.66	904.6M	1.78	ppb
g olybdenum	M6-1	936.20	920.4M	926.8M	927.86	1.90	ppb
g olybdenum	M7-1	918.M2	90M.92	909.39	911.26	1.36	ppb
g olybdenum	M8-1	928.16	921.87	916.41	922.19	1.13	ppb
Neodymium	190-1						cps
Neodymium	190-2						cps
Nickel	60-2	90.42	91.36	90.80	90.86	0.M8	ppb
Phosphorus	31-2	1037.71	M48.9M	M78.01	M88.10	4.60	ppb
Potassium	3M-2	2484.09	2997.44	2909.66	2919.71	1.90	ppb
Uhodium	103-1				MM		%
Uhodium	103-2				100		%
Scandium	49-1				100		%
Scandium	49-2				MM		%
Selenium	82-1	92.97	92.97	93.09	92.73	0.93	ppb
Selenium	77-2	47.32	91.41	41.30	46.68	10.8M	ppb
Selenium	78-2	96.13	91.22	44.79	90.70	11.26	ppb
Silicon	28-1	73.81	77.17	83.12	78.03	6.09	ppb
SilRer	107-1	90.M2	90.23	90.6M	90.62	0.6M	ppb
SilRer	10M-1	91.91	91.70	92.18	91.80	0.67	ppb
Sodium	23-2	9089.80	9219.97	9197.73	9193.03	1.26	ppb
Strontium	86-1	1276.08	12M8.07	12M1.27	1288.47	0.87	ppb
Strontium	88-1	1297.M4	1272.86	1288.07	1272.M6	1.18	ppb
Sulfur	34-1	1920.92	884.78	M93.71	111M.67	31.16	ppb
Terbium	19M-1				101		%
Terbium	19M-2				100		%
Thallium	203-1	46.66	44.74	46.M4	46.11	2.60	ppb
Thallium	209-1	48.76	47.17	47.M0	47.M4	1.67	ppb
Tin	118-1	90.39	90.10	4M.89	90.10	0.90	ppb
Titanium	47-1	916.91	4M8.97	900.88	903.69	2.33	ppb
F ranium	238-1	47.86	46.34	46.M2	47.04	1.64	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
5 lient Sample ID :	S03	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:92:26	Data. ile Name :	0065 ALSC

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARvC	5 oncC	5 oncUSD	F nits
Vanadium	91-2	48	4M	48	48	1	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	8M-1				101		%
Yttrium	8M-2				100		%
Zinc	66-2	4M	904	48M	4M	1	ppb
Zirconium	M0-1	90	90	4M	90	0	ppb
Zirconium	M1-1	4M	90	4M	4M	1	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
5 lient Sample ID :	S04	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:99:24	Data. ile Name :	0075 ALSC

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARVC5 oncC	5 oncUSD	F nits
Aluminium	27-2	2441030	2428097	2493 2M	2441009	0091	ppb
Antimony	121-1	120078	1229M	1260 20	1230 1M	2024	ppb
Arsenic	79-2	1180 8	1200 0	1220 16	1206 66	1039	ppb
Barium	139-1	606089	6027 7M	6230 80	6110 19	1082	ppb
Barium	137-1	6299 99	6200 17	6360 17	6270 30	1030	ppb
Beryllium	M-1	1260 M	1270 M	1240 88	1266 62	1029	ppb
Bismuth	20M-1				100		%
Bismuth	20M-2				M8		%
Bromine	81-1						cps
5 admium	108-1	1310 07	1230 23	1340 1M	12M90	4036	ppb
5 admium	106-1	11M89	1280 9	1240 91	1240 44	3066	ppb
5 admium	111-1	1280 30	1280 81	1310 27	12M46	1022	ppb
5 alcium	43-1	140180 89	137680 70	13M11 21	138MM9M	00 0	ppb
5 alcium	44-1	136260 83	136310 4	136M9 98	136910 49	0028	ppb
5 arbon	12-1						cps
5 arbon	12-2						cps
5 hlorine	39-1						cps
5 hlorine	39-2						cps
5 hromium	92-2	1176 62	1197 73	1170 4	1170 10	1002	ppb
5 obalt	9M-2	1189 97	1186 89	1186 36	1189 M	0021	ppb
5 opper	63-2	12960 M	1242 48	1294 24	1291 20	0061	ppb
Dysprosium	196-1						cps
Dysprosium	196-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	169-1				101		%
Holmium	169-2				100		%
Indium	119-1				MM		%
Indium	119-2				M8		%
Iron	94-2	6422 42	6274 01	6481 77	63M2 77	1067	ppb
Iron	96-2	6462 17	6390 18	6990 77	6494 38	1096	ppb
Iron	97-2	6298 43	6199 48	629M 96	6224 4M	00 6	ppb
Krypton	83-1						cps
Lead	206-1	6172 6	6279 6	6110 4	6180 2	1033	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
5 lient Sample ID :	S04	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:99:24	Data. ile Name :	0075 ALSCl

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARvC5 oncC	5 oncUSD	F nits
Lead	207-1	61M90	6370 73	6220 M0	6260 71	1 09 9	ppb
Lead	208-1	6170 73	62M2 27	6220 72	6230 24	0 0M8	ppb
Lithium	6-1				M8		%
g avnesium	24-2	13191 8 6	12799 9 8	13383 0 7	130M6 8 4	2 4 2	ppb
g anvanese	99-2	1172 0 9	113M2 0	1168 6 9	1160 0 0	1 9 6	ppb
g olybdenum	M4-1	1206 0 6	1270 0 0	1263 8 9	1246 6 7	2 8 2	ppb
g olybdenum	M9-1	1187 9 6	1267 0 3	1227 3 1	1227 3 0	3 2 4	ppb
g olybdenum	M6-1	11M9 0 M	1293 2 2	1263 6 6	1237 6 2	2 0 4	ppb
g olybdenum	M7-1	1223 0 2	1279 3 9	1299 4 6	1291 3 1	2 0 1	ppb
g olybdenum	M8-1	1211 7 4	1276 3 3	129M 7 8	124M 2 8	2 6 M	ppb
Neodymium	190-1						cps
Neodymium	190-2						cps
Nickel	60-2	122 9 8	123 0 4	126 0 3	123 0 2	1 9 6	ppb
Phosphorus	31-2	2466 0 M	2409 7 2	2441 4 9	2438 0 9	1 2 6	ppb
Potassium	3M-2	6198 0 0	6178 0 0	6232 2 7	618M 4 6	0 6 2	ppb
Uhodium	103-1				100		%
Uhodium	103-2				MM		%
Scandium	49-1				100		%
Scandium	49-2				M7		%
Selenium	82-1	121 0 M	130 0 8	128 8 9	126 6 7	3 8 9	ppb
Selenium	77-2	126 0 6	104 0 0	128 2 7	11M 9 1	11 2 0	ppb
Selenium	78-2	122 3 0	128 3 M	121 9 0	124 0 6	3 0 4	ppb
Silicon	28-1	179 0 8	1M1 0 2	208 2 M	1M2 0 6	8 4 1	ppb
SilRer	107-1	123 8 2	123 0 4	126 4 6	124 4 8	1 4 1	ppb
SilRer	10M-1	124 6 2	129 6 8	128 6 2	126 3 1	1 6 4	ppb
Sodium	23-2	12636 2 9	12448 9 6	1302M 6 9	12704 8 2	2 3 3	ppb
Strontium	86-1	3076 3 2	3218 9 8	30M8 0 9	312M 3 9	2 4 8	ppb
Strontium	88-1	3030 6 M	31M6 0 6	30M7 9 6	3108 0 0	2 6 8	ppb
Sulfur	34-1	2377 8 7	1M82 4 4	219M 3 1	2196 9 4	10 3 3	ppb
Terbium	19M-1				101		%
Terbium	19M-2				M8		%
Thallium	203-1	116 4 1	116 0 7	114 4 M	119 0 9	1 0 2	ppb
Thallium	209-1	116 0 2	126 7 9	122 0 7	121 6 8	4 3 8	ppb
Tin	118-1	121 4 M	123 8 1	126 2 3	123 8 4	1 0 2	ppb
Titanium	47-1	1239 0 1	1221 8 4	123M 0 1	1231 0 M	0 7 3	ppb
F ranium	238-1	120 6 7	126 8 0	124 0 7	123 8 8	2 4 8	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
5 lient Sample ID :	S04	Dilution . actor :	1
Date & Time Acquired :	2023-07-14 13:99:24	Data. ile Name :	0075 ALSC

Parameter	g ass	5 onUep1	5 onUep2	5 onUep3	ARVC	5 oncC	5 oncUSD	F nits
Vanadium	91-2	121.22	121.69	121.00	121.2M		0.27	ppb
Ytterbium	172-1							cps
Ytterbium	172-2							cps
Ytterbium	176-1							cps
Ytterbium	176-2							cps
Yttrium	8M-1				102			%
Yttrium	8M-2				MM			%
Zinc	66-2	1202.22	11M.94	1216.66	1209.47		0.83	ppb
Zirconium	M0-1	117.70	122.81	122.89	121.12		2.49	ppb
Zirconium	M1-1	113.26	122.19	116.74	117.38		3.81	ppb

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Inst Id :P8

LB:Number:9	LB126466	Operstor:9	aswl sP
Lsb:SsmpRe:ID:9	S03	Inwtrumnet:Nsme:9	8J
5 Rent:SsmpRe:ID:9	S03	DiRtion:. sctor:9	1
Dste:&:Time:Acquired:9	202-70 714:1-93J923	Dsts. iRe:Nsme:9	00J5ALSGl

8srsmeter	g sww	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncUSD	Fnitw
ARminium	2 72	3M33G4J	4JM2G2J	4J4MG62	32-2G46	11GM	ppb
Antimony	12171	241G32	24-G3	246G30	24-GJ6	1G0-	ppb
Arwenic	372	-03G31	24MG1	244G31	266G40	12C3	ppb
Bsrium	1-371	11M3G2M	120JC4	1222G01	120JG6J	1G11	ppb
Bsrium	1- 71	12 G42	126 C-	12 MG1M	12 3G04	0G31	ppb
BeryRium	M71	2420M3	23-G00	24JG60	24JG1J	2G0-	ppb
Biwmuth	20M71				101		%
Biwmuth	20M72				M0		%
Bromine	J171						cpw
5sdmium	10J71	236G00	23MG3M	236CM	23 G46	0C-	ppb
5sdmium	10671	23MGMJ	232G34	232C	233G10	1G66	ppb
5sdmium	11171	23 GM6	23 G61	23MG1-	23JG2-	0G1	ppb
5sRium	4-71	2 6M2G66	2 616G02	2J200G03	2 J-6G24	1G14	ppb
5sRium	4471	2 2JJG6	26MJ G3-	2 6J2G41	2 -1MG34	1G2J	ppb
5srbon	1271						cpw
5srbon	1272						cpw
5hRrine	-371						cpw
5hRrine	-372						cpw
5hromium	3272	2M1G02	2-6G3	2-6G-	234G36	12G40	ppb
5obsR	3M72	2M2GJ6	2-MG13	2-MG4M	23 G1	12G02	ppb
5opper	6-72	-06-GJ2	2314GJ4	2466GJJ	26J1GJ3	12G	ppb
Dywprowium	13671						cpw
Dywprowium	13672						cpw
Erbium	16471						cpw
Erbium	16472						cpw
GsdoRnium	16071						cpw
GsdoRnium	16072						cpw
HoRmium	16371				101		%
HoRmium	16372				M4		%
Indium	11371				101		%
Indium	11372				JM		%
Iron	3472	13 MMG23	1-011G04	12613G3M	1-J0JG6-	12G3	ppb
Iron	3672	13J-JG40	1-1MJG0M	1-1100G4	1404MG14	11G0-	ppb
Iron	3 72	13412GJ2	12621G6	1234-G1M	1-326G13	12G0J	ppb
Krypton	J-71						cpw
Lesd	20671	120JGJJ	12-0G10	1240G3J	1226G32	1G2	ppb

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LB:Number:9	LB126466	Operstor:9	aswl sP
Lsb:SsmpRe:ID:9	S03	Inwtrumnet:Nsme:9	8J
5 Rent:SsmpRe:ID:9	S03	DiRtion:. sctor:9	1
Dste:&:Time:Acquired:9	202-70 714:1-93J923	Dsts. iRe:Nsme:9	00J5ALSGl

8srsmeter	g sww	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncUSD	Fnitw
Lesd	20 71	1203G0	12-2CM	123-C0	12-0GJ	1C3	ppb
Lesd	20J71	120MC4	12-0GJ	124JC22	122MC32	1G36	ppb
Lithium	671				M		%
g svnewium	2472	-1J06G6J	2624-C2	26442C4M	2J164G6	11C21	ppb
g snvsnewe	3372	-0-0C0-	243-G6	231 C20	2666CM	11CJ3	ppb
g oRybdenum	M471	24M1G6J	2342C04	231 C3	231 C16	1C00	ppb
g oRybdenum	M371	243-G6J	2344CJ	23- G6	2311C0	2C01	ppb
g oRybdenum	M671	24M1CJ1	24MJC04	2306G46	24MJC	0C2M	ppb
g oRybdenum	M 71	23-3C12	23-3G34	236MC-	2346CJ0	0CJ	ppb
g oRybdenum	MJ71	232JCM	231JG66	233MCJ	23-3G31	0CJ-	ppb
Neodymium	13071						cpw
Neodymium	13072						cpw
NickeP	6072	-02CM0	232G62	24JG1	26 CM3	11G-	ppb
8howphoruw	-172	36-34M	4 J1C13	43MJG6	3003C00	11C06	ppb
8otswwium	-M72	13131C1	12401G63	122M4CJ	1-2J2G0	12C1M	ppb
Uhodium	10-71				MM		%
Uhodium	10-72				M0		%
Scsndium	4371				MJ		%
Scsndium	4372				JM		%
SeRenium	J271	23JCJ6	23JC4	236C04	23 C4	0G64	ppb
SeRenium	72	-1MC4	242C10	26-C06	2 4CJJ	14G36	ppb
SeRenium	J72	-06C	23JC44	24 C40	2 0CJ	11G66	ppb
SiRcon	2J71	2J0C14	-1-G31	-42G1	-11CM	MCM	ppb
SiRRer	10 71	2360C1	23 G	23JG6M	23 G66	0G6	ppb
SiRRer	10M71	236C-	2640CM	260C3	260G32	1C41	ppb
Sodium	2-72	-110 C23	2614-G3-	23-J-G	2 344C2	11C2M	ppb
Strontium	J671	6216CJ3	6261C24	61 MC14	621MCJ	0G66	ppb
Strontium	JJ71	622 G0	62 -C0	6-20G33	62 -CJ3	0C4	ppb
SuRfur	-471	4 02G3M	4 44C4	31 JC4	4J 3C4M	3C41	ppb
Terbium	13M71				102		%
Terbium	13M72				M4		%
ThsRium	20-71	226C2-	22MCJ	2-2CJ2	22MC41	1C44	ppb
ThsRium	2037 1	2-MCM	24 C0	24 C2	244CJ6	1CJ0	ppb
Tin	11J71	242CJ6	244G32	246G1	244G36	0C0	ppb
Titsnium	4 71	2332CJ-	24M6G	23J0C41	234-C21	1G6J	ppb
Frsnium	2-J71	246G61	240G	24 CJ6	244CM3	1G64	ppb

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LB:Number:9	LB126466	Operstor:9	aswl sP
Lsb:SsmpRe:ID:9	S03	Inwtrumnet:Nsme:9	8J
5 Rent:SsmpRe:ID:9	S03	DiRtion:. sctor:9	1
Dste:&:Time:Acquired:9	202- 70 714:1- 9JJ923	Dsts. iRe:Nsme:9	00J5 ALSGl

8srsmeter	g sww	5onUep1	5onUep2	5onUep-	ARvC5oncC	5oncUSD	Fnitw
Vsnsdium	3172	2MM6-	24- QJ2	24- Q46	262G0	12G2	ppb
Ytterbium	1 271						cpw
Ytterbium	1 272						cpw
Ytterbium	1 671						cpw
Ytterbium	1 672						cpw
Yttrium	JM71				100		%
Yttrium	JM72				JM		%
Zinc	6672	2M- JQ4-	244MQ4	2402Q26	23M6C2	11Q4-	ppb
Zirconium	M071	23- QJM	2626GJ	23- Q1-	236G3	2Q0	ppb
Zirconium	M171	2- JQM	2440M6	2446G0	242QJ4	1GJ	ppb

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Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S06	poaD8Nu obD8 Ju b :	I P
5 wTboDSJu r wo pl :	S06	I TWDDo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2023-07-14 14:01:24	I JDJ. Two 8 Ju b :	00n5 i LSGq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr 3	i RvC5 CoAC	5 CoAUSI	F oTa
i wNu TbTNu	27-2	n743C76	nn76C24	n6P3CCP	nP01CC2	1CMP	r r m
i oDDu Coy	121-1	M0MC31	4P3Cc7	M6MC60	M1PC2n	PC17	r r m
i eeaboTA	7M-2	4nMC76	4P4C11	4P7C7P	4PnC21	1C22	r r m
BJeTNu	13M-1	2M6PC17	2420C1P	2PP3C4M	2623Cc3	nCC2	r r m
BJeTNu	137-1	24PMCP2	23n0CP3	2PM7C7n	2M7PC1M	nCM7	r r m
Bbeywi TNu	n-1	4P7C6M	4n3CM6	M40CM8	M07C2M	MC71	r r m
B Tau NDn	20n-1				n6		%
B Tau NDn	20n-2				nM		%
BeCu Tbb	P1-1						Ara
5 Jqu TNu	10P-1	M0nCC3	4PnCMh	M67C66	M22CCn	7C7P	r r m
5 Jqu TNu	106-1	4n7CCn	4n3CP0	M7MCPP	M22C2M	PCc0	r r m
5 Jqu TNu	111-1	M02CM0	4P6CC4	M74CM1	M21CC1	nCC3	r r m
5 JvATNu	43-1	MM1P2C2P	M4363CM0	6417PCM4	M7n0PC11	nC40	r r m
5 JvATNu	44-1	M8n02CP4	M840PC46	62443C63	M6MP4CcP	PCcP	r r m
5 JemCo	12-1						Ara
5 JemCo	12-2						Ara
5 hwZeTbb	3M-1						Ara
5 hwZeTbb	3M-2						Ara
5 heCu TNu	M2-2	46MCc0	47MC6n	4MhC72	467C10	1C72	r r m
5 CmJwD	Mh-2	46PCM4	47nCP7	46nCM1	472C64	1C33	r r m
5 Crr be	63-2	4n42C22	4n74C23	4P22C76	4n13CC7	1C62	r r m
I yar eCaTNu	1M6-1						Ara
I yar eCaTNu	1M6-2						Ara
EemTNu	164-1						Ara
EemTNu	164-2						Ara
GJqOwbTNu	160-1						Ara
GJqOwbTNu	160-2						Ara
HOw TNu	16M-1				n7		%
HOw TNu	16M-2				nn		%
poqTNu	11M-1				nM		%
poqTNu	11M-2				n3		%
peCo	M4-2	26P27CP1	27n06C66	26P42CP6	271n2C44	2C27	r r m
peCo	M6-2	2MP62C67	262P2C14	2M6P6CcM	2Mh43Cc2	1C1P	r r m
peCo	M7-2	24P07C7P	2M366C76	24Mh0C21	24n21CMP	1C61	r r m
Keyr DDo	P3-1						Ara
LbJq	206-1	23P3C70	23n2C1P	27nPC1M	2M24C6P	nC3P	r r m

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Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S06	poaD8Nu obD8 Ju b :	I P
5 vTboDSJu r wo pl :	S06	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2023-07-14 14:01:24	I JDJ. Tw 8 Ju b :	00n5 i LSGq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr 3	i RvC5 CoAC	5 CoAUSI	FoTa
LbJq	207-1	242MC74	2417CP6	27M4CP1	2M32CP0	7CMh	r r m
LbJq	20P-1	2416G64	2402C44	27n4C10	2M37C73	PC7M	r r m
LTDhTNu	6-1				n2		%
g JvobaTNu	24-2	M1P73C77	M32nPC1M	M1612CP6	M2261CMh	1C74	r r m
g JovJobab	MM-2	4n36C4P	4nMMC2P	4PP4CCM	4n2MC27	0C7M	r r m
g OymqboNu	n4-1	4nnPC10	4nM7CaM	M4P6C7M	M147G60	MC72	r r m
g OymqboNu	nM-1	4nMDC2n	4n74CPn	M421C2M	M11MC4P	MC1P	r r m
g OymqboNu	n6-1	4PnMG6M	MDM3CPP	M611CPP	M1P7C14	7C2M	r r m
g OymqboNu	n7-1	4P47CC0	4n73CC2	M603C73	M141C2M	7CPn	r r m
g OymqboNu	nP-1	4P13G61	MD42C13	MM76C27	M144CC1	7G61	r r m
8 bOqyu TNu	1MD-1						Ara
8 bOqyu TNu	1MD-2						Ara
8 TAkbw	60-2	4PnCM3	MD0G62	4n1C73	4n3Ca6	1C1n	r r m
I hOarhOaNa	31-2	n471C3M	nP43CPP	nn33CP6	n74nC70	2CM2	r r m
I CDJaaTNu	3n-2	2M2P7CM4	26234CPn	2M240C7M	2MMP7C73	2C1n	r r m
UhOqTNu	103-1				n4		%
UhOqTNu	103-2				n3		%
SAJoqTNu	4M-1				n3		%
SAJoqTNu	4M-2				n2		%
SbwboTNu	P2-1	4n7C46	MD1C12	M70CC4	M22CP7	7CP2	r r m
SbwboTNu	77-2	4M4CCn	4nPCP0	4n2CP1	4P1Ca0	MCC4	r r m
SbwboTNu	7P-2	4PnCM1	4nPCP0	476C41	4PPC24	2C30	r r m
STWACo	2P-1	Mh1Ca6	6M1C41	7nnCP2	6P1CC7	1MC72	r r m
STWbe	107-1	MD0CMM	4n4CCM	MP1CMD	M2MC36	nC27	r r m
STWbe	10n-1	MDMCa2	47nCaP	M77CC7	M20Can	nG6M	r r m
SOqTNu	23-2	MD0MPC4M	M1P63CP7	4n72PG66	MDMMDC33	2C27	r r m
SbaOoDTNu	P6-1	12303C26	1247PC7M	14113CC2	12n6MCC1	7C70	r r m
SbaOoDTNu	PP-1	1227PC37	12203CC3	13n41C42	12P07G61	7G67	r r m
SNvNe	34-1	nP27C2n	Pnn7C24	12nMMC4M	10Mh3C32	1nC70	r r m
&bemTNu	1Mh-1				nn		%
&bemTNu	1Mh-2				n7		%
&hJwwTNu	203-1	4P7Ca3	4P7C74	M6PC16	M14G61	nCC1	r r m
&hJwwTNu	20M-1	477CM6	47nCa6	MMMC36	MD4C2n	PC77	r r m
&Tb	11P-1	MD0CP0	47nC76	M6MCC4	M1MC20	PG62	r r m
&TDJoTNu	47-1	4nPMC33	4n17C77	M610C40	M171C17	7C3P	r r m
FeJoTNu	23P-1	4P0CCn	474C72	MM6C22	MD3G6P	nCCM	r r m

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LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S06	poaD8Nu obD8 Ju b :	I P
5 wTboDSJu r wo pl :	S06	I TWDDCo . JADDe:	1
I JDDt &Tu b i AcNTEbq :	2023-07-14 14:01:24	I JDD. Two 8 Ju b :	00n5 i LSGq

I JeJu bDDe	g Jaa	5 CoUbr 1	5 CoUbr 2	5 CoUbr 3	i RvC5 CoAC	5 CoAUSI	F oTa
VJoJqTNu	M1-2	476C2M	4n2CP6	4PMCP0	4P4C7	1C72	r r m
YDDemTNu	172-1						Ar a
YDDemTNu	172-2						Ar a
YDDemTNu	176-1						Ar a
YDDemTNu	176-2						Ar a
YDDeTNu	Pn-1				n6		%
YDDeTNu	Pn-2				n3		%
ZTbA	66-2	47PPC16	4P41C70	46PMC21	4771C6n	1C67	r r m
ZTbACoTNu	n0-1	4n4C1P	4n3C6M	MMhCn	M1MC4	7C40	r r m
ZTbACoTNu	n1-1	4P0C2P	4710C4	M41CP4	4n7CPn	7C6n	r r m

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LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S03	poaD8Nu obD8 Ju b :	I P
n wTboDSJu r wo pl :	S03	I TWDDo CJADDe:	1
I JDDo t &Tu b i AcNTEbq :	202-703714 14:04:24	I JDJCTwo 8 Ju b :	010n i LS5q

I JeJu bDDe	v Jaa	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTa
i wNu TbTNu	2372	1gg3M513	20M325M1	1g00g5M1	1gPM2540	-5g3	r r m
i oDu Coy	12171	100M506	g3M5PM	gg65g0	gg2560	15M2	r r m
i eaboTA	3M72	100-52-	10-250P	g3052g	10015P3	-50g	r r m
BJeTNu	1-M71	M0365P2	43g35MP	4g3650M	4gM051M	25P6	r r m
BJeTNu	1-371	M0665-	4P465M2	4g4g5M4	4gM452-	2522	r r m
Bbeywi TNu	g71	g3351g	10045-3	100P523	gg6561	1530	r r m
B Tau NDn	20g71				g3		%
B Tau NDn	20g72				PM		%
BeOu Tbb	P171						A r a
n Jqu TNu	10P71	gP-53-	gP65-1	gPP531	gP652M	052M	r r m
n Jqu TNu	10671	10005Og	g3M566	gP65g3	gP35M3	1524	r r m
n Jqu TNu	11171	gg4512	g60520	100M5P3	gP653-	2540	r r m
n JvATNu	4-71	11344g546	116g31514	113Mg150-	113--3521	052P	r r m
n JvATNu	4471	10P244543	10P44g501	10MgP-501	103MMP5P-	1523	r r m
n JemOo	1271						A r a
n JemOo	1272						A r a
n hw2eTbb	-M71						A r a
n hw2eTbb	-M72						A r a
n heOu TNu	M272	102g526	10M353M	g6252-	1016542	45P2	r r m
n OmJwD	Mg72	1024514	103g5gM	g-4522	1012533	3526	r r m
n Orr be	6-72	10141544	10-2654g	gM2350M	gggP5-2	451g	r r m
I yar eOaTNu	1M671						A r a
I yar eOaTNu	1M672						A r a
EemTNu	16471						A r a
EemTNu	16472						A r a
GJqOw bTNu	16071						A r a
GJqOw bTNu	16072						A r a
HOw TNu	16M71				102		%
HOw TNu	16M72				g0		%
poqTNu	11M71				g6		%
poqTNu	11M72				P-		%
peOo	M472	MM-4M56-	MP0M-56-	M1MP0531	M4gg-5-2	M5g1	r r m
peOo	M672	M-232542	MM0Mg52g	4gPM45-4	M232P56P	M502	r r m
peOo	M372	MM- M5P-	M62g-5P6	M1-M-52-	M4-23564	45P2	r r m
Keyr DDo	P-71						A r a
LbJq	20671	M0435gP	4g6650 4	4g315P-	4ggM52P	05g2	r r m

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LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pd :	S03	poaDNu obD8 Ju b :	I P
n wTboDSJu r wo pd :	S03	I TWDDo CJADDe:	1
I JDDo t &Tu b i AcNTbq :	202-703714 14:04:24	I JDJCTwo 8 Ju b :	010n i LS5q

I JeJu bDDe	v Jaa	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTa
LbJq	20371	M06M542	4P6-533	M0-35g1	4gPg50-	251g	r r m
LbJq	20P71	M04P56g	4g2P5MP	4gP25Pg	4gP6532	1521	r r m
LTDhTNu	671				g2		%
v JRobaTNu	2472	103MP2522	10gMP256g	1011115 2-	1060g250M	4513	r r m
v JoRJobab	MW72	100-g53-	1043g5M6	gM0M5-3	1000P522	45P3	r r m
v OwymqboNu	g471	gPM151P	gP6153P	100M-52P	gg2250P	151M	r r m
v OwymqboNu	gM71	g3g65-P	10012516	10013523	gg415g4	1523	r r m
v OwymqboNu	g671	g30M562	100-P54M	gg36561	gg065Pg	153g	r r m
v OwymqboNu	g371	g3M6500	100g-5g6	gg005Pg	gg165gM	1531	r r m
v OwymqboNu	gP71	g3325g-	100205g-	gg60544	gg1P510	15-0	r r m
8 bOqyu TNu	1M071						A r a
8 bOqyu TNu	1M072						A r a
8 TAkbw	6072	10025gM	1044564	g4P52g	ggP56-	45P4	r r m
I hOar hOaNa	-172	1g3PP5M2	21-MP5g3	1g24g52-	201-2524	M544	r r m
I ODJaaTNu	-g72	M204154-	M2ggM53M	4g-0g536	M144P5gP	-532	r r m
F hOqTNu	10-71				g-		%
F hOqTNu	10-72				P4		%
SAJoqTNu	4M71				g4		%
SAJoqTNu	4M72				P4		%
SbwboTNu	P271	g635Dg	gg35P0	gg-5P1	gP652-	156g	r r m
SbwboTNu	3372	g6-50g	103052-	g33532	100-56P	M53g	r r m
SbwboTNu	3P72	100153 4	102P5-0	g32520	100053M	25P0	r r m
STWAOo	2P71	PPP506	P36540	PPP511	PP451g	0536	r r m
STWbe	10371	100-51P	g325M-	gP0560	gPM544	1561	r r m
STWbe	10g71	gg252M	g3M5P1	gg15P0	gP6562	05gM	r r m
SOqTNu	2-72	104g-25g0	10gM02503	gg2g15P3	104M3M561	45Pg	r r m
SDaOoDTNu	P671	24M-2536	2M-Pg526	24-M2523	243MP50g	2524	r r m
SDaOoDTNu	PP71	2436251P	2M202526	24M14500	24P2651M	1540	r r m
SNvNe	-471	20046536	1g6365g3	1gMg05M1	1g331542	152-	r r m
&bemTNu	1Mg71				100		%
&bemTNu	1Mg72				Pg		%
&hJwTNu	20-71	ggM51g	10015MP	1000534	ggg513	05-M	r r m
&hJwTNu	20M71	10025-2	10115-3	gPM52P	ggg556	15-	r r m
&Tb	11P71	10025-0	gP65P3	gg25M-	gg-5g0	053g	r r m
&TDJoTNu	4371	gP6-5P3	gP3-54-	gg3g536	gg0M56P	056M	r r m
. eJoTNu	2-P71	101M5P-	g3g532	100-5Mg	ggg531	15P4	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB 8 Nu mbe:	LB126466	d r beJDDe:	9Jas Jw
LJmSJu r wo pl :	S03	poaDNu obD8 Ju b :	I P
nvTboDSJu r wo pl :	S03	I TWDDo CJADDe:	1
I JDDt &Tu b i AcNTbq :	202-703714 14:04:24	I JDJCTw 8 Ju b :	010ni LS5q

I JeJu bDDe	v Jaa	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTa
VJoJqTNu	M172	10065g-	104M5g-	g62501	10045g6	451P	r r m
YDDemTNu	13271						Ar a
YDDemTNu	13272						Ar a
YDDemTNu	13671						Ar a
YDDemTNu	13672						Ar a
YDDTNu	Pg71				gP		%
YDDTNu	Pg72				P6		%
ZTbA	6672	101-P56M	10-6P566	g33g5g-	100gM534	25g4	r r m
ZTbACoTNu	g071	gg15M2	gg-521	gP35PP	gg05P3	0523	r r m
ZTbACoTNu	g171	gg254M	10035g-	1011502	100-5P0	05gg	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:8 Nu mbe:9	LB126466	d r beaD:e:9	Jaswal
LamSau r lb:pl :9	S03	posD8Nu obD8 au b:9	P3
nITboDSau r lb:pl :9	S03	I TNDCo:CaADe:9	1
I aDb:t :&Tu b:i AcNEbq:9	202-70 714:1490 92-	I aDaCTb:8 au b:9	011n i LS5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTs
i INu TbTNu	2 72	100g M52	M36Mg5gM	10034-5 M	1000-M542	151	r r m
i oDu Coy	12171	0564	0543	05M2	0563	-254-	r r m
i esboTA	g72	05M4	05g	0542	0564	4056M	r r m
BaeTNu	1-g71	45-2	-504	g53g	4540	-15MM	r r m
BaeTNu	1- 71	45 g	g52	652g	g542	1451-	r r m
BbeylITNu	M71	051	0510	056g	05-1	M 513	r r m
BTsu NDn	20M71				3-		%
BTsu NDn	20M72				g		%
BeOu Tbb	3171						A r s
n aqu TNu	10371	15-2	05M1	15-	151M	20503	r r m
n aqu TNu	10671	72506	72526	150	71503		r r m
n aqu TNu	11171	05g0	051g	05Mg	05g-	g544	r r m
n alATNu	4-71	g0 41M5 M	4M424 5M1	43g00 562	4Mggg3544	252	r r m
n alATNu	4471	g04g0353g	4MM6 3514	433343520	4M 6 3540	1561	r r m
n aemOo	1271						A r s
n aemOo	1272						A r s
n hIOeTbb	-g71						A r s
n hIOeTbb	-g72						A r s
n heOu TNu	g272	g540	g54-	g526	g5-	156	r r m
n OmalD	gM72	2562	25-1	252	2540	5M1	r r m
n Or r be	6-72	56	g506	4566	g530	23521	r r m
I ysr eOsTNu	1g671						A r s
I ysr eOsTNu	1g672						A r s
EemTNu	16471						A r s
EemTNu	16472						A r s
GaqOTbTNu	16071						A r s
GaqOTbTNu	16072						A r s
HOlu TNu	16g71				M0		%
HOlu TNu	16g72				3-		%
poqTNu	11g71				36		%
poqTNu	11g72				M		%
peOo	g472	2g0 6M5 2	24-M1g5MM	2g14g1514	243 12523	1563	r r m
peOo	g672	2g106-52-	2441M6533	2g2g6 5 0	24M2 g5M4	15 M	r r m
peOo	g 72	24 4M3526	24M4 65g-	2g02MM6-	24M0M154	05g3	r r m
Keyr DDo	3-71						A r s
Lbaq	20671	-51g	2511	4564	-5-0	-354M	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:8 Nu mbe:9	LB126466	d r beaD:9	Jaswal
LamSau r lb:pl :9	S03	posD8Nu obD8 au b:9	P3
n lTboDSau r lb:pl :9	S03	I TNDCo:CaADe:9	1
I aDb:t :&Tu b:i AcNEbq:9	202-70 714:1490 92-	I aDaCTb:8 au b:9	011n i LS5q

Paeau bDbe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTs
Lbaq	20 71	2531	-563	4530	-5 6	2654	r r m
Lbaq	20371	2534	254g	45 4	-5-4	-65g3	r r m
LTbTNu	671				32		%
v aRobsTNu	2472	4M M5 M	4M 6651-	4MMgMg5 1	4M3-305g4	0521	r r m
v aoRaobsb	gg72	105 0	3546	506	35 4	21504	r r m
v Clymqboﾝu	M471	45-4	2516	3524	45M1	625 2	r r m
v Clymqboﾝu	Mg71	-5M6	15 M	65M6	452-	615-1	r r m
v Clymqboﾝu	M671	4512	15Mg	56	45g3	6-50g	r r m
v Clymqboﾝu	M 71	45-0	15 0	5 1	45g	6g5M0	r r m
v Clymqboﾝu	M371	45-g	15 6	501	45-	gM5MM	r r m
8 bOqyu TNu	1g071						Ar s
8 bOqyu TNu	1g072						Ar s
8 TAkbl	6072	g52	45M-	45 6	45MM	g5-1	r r m
PhOsr hOeNs	-172	7g5g0	7g5 6	1g51-	152M	M-1512	r r m
POaassTNu	-M72	24M1--51M	2g0 465M1	243M61512	24M61-5 4	05-M	r r m
F hOqTNu	10-71				M		%
F hOqTNu	10-72				g		%
SAaoqTNu	4g71				34		%
SAaoqTNu	4g72				M		%
SblboTNu	3271	g5M0	g566	6544	6500	6566	r r m
SblboTNu	72	5M-	253	g5-1	g5-	4 50M	r r m
SblboTNu	372	65M1	g516	654M	6513	145 g	r r m
STTAOo	2371	110510	12M64M	1-45g	1245 2	105-6	r r m
STUbe	10 71	051g	051g	051	051g	3502	r r m
STUbe	10M71	0514	051g	051g	051g	450g	r r m
SOqTNu	2-72	4MMg6-50g	4M60M-534	g010-1506	4M33Mg5MM	05g1	r r m
SbOoDTNu	3671	1656M	25-2	1M5 3	125M-	2506	r r m
SbOoDTNu	3371	M5M4	252-	13524	10514	35M6	r r m
SNfNe	-471	601566	714051	104522	1335g	200543	r r m
&bemTNu	1gM71				3M		%
&bemTNu	1gM72				3-		%
&hallTNu	20-71	0541	0521	05 1	0544	g 52	r r m
&hallTNu	20g71	05-3	0520	05	054g	6453	r r m
&Tb	11371	0564	054M	05MM	05 1	-g5M3	r r m
&TaoTNu	4 71	15M6	1504	6501	-500	33516	r r m
. eaoTNu	2-371	0520	051g	05 2	05-6	3M50M	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:8 Nu mbe:9	LB126466	d r beaDDe:9	Jaswal
LamSau r lb:pl :9	S03	posDaNu obD8 au b:9	P3
n lTboDSau r lb:pl :9	S03	I TNDDCo:CaADDe:9	1
I aDb:t :&Tu b:i AcNTbq:9	202- 70 714:1490 92-	I aDaCTb:8 au b:9	011n i LS5q

Paeau bDDe	v ass	n CoF br 1	n CoF br 2	n CoF br -	i UR5n CoA5	n CoAF SI	. oTs
VaoaqTNu	g172	05g6	05-6	0520	05-	4M52-	r r m
YDDbemTNu	1 271						Ar s
YDDbemTNu	1 272						Ar s
YDDbemTNu	1 671						Ar s
YDDbemTNu	1 672						Ar s
YDDbTNu	3M71				36		%
YDDbTNu	3M72				31		%
ZTbA	6672	2M5M6	245M4	2g50-	2656 4	1053 0	r r m
ZTbAOoTNu	M071	05g-	05-3	05M2	0561	4g56g	r r m
ZTbAOoTNu	M171	152M	05-6	1500	0533	g451-	r r m

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9J	LB126466	o Dr ps&mp9J	aswl sP
Lse9l sb DP9 9 9	S3-76	S5w&pmb 5r &u sb r 9J	8N
0 A5&9l sb DP9 9 9	S3-76	t Ar&A59 sq&mp9J	1
t s&9T9 Av r 9c qdmAr C9J	2-2 :-7:14914.J2-J12	t s&s. A9usb r 9J	-12S3C

8spsb r &p	g sww	0n5Ur D1	0n5Ur D2	0n5Ur D	cRvC9 0n5qC	0n5qUI t	F5A&w
cPmb A5Amb	27:2	M- Cy M	M-1C47	M22C1M	M-yC2	2C26	DDe
c5&b n5h	121:1	1y Cy4	1y1Cy7	2--C71	1yMC4	2C4	DDe
cpwr 5Aq	7M2	1y4C4	1y7C5y	1yyC7M	1y7C	1C	DDe
BspAmb	1 M1	yyC7N	y7C27	1-1C2	yyC4	2G2	DDe
BspAmb	1 7:1	yyC4	yyC1	1- Gy	1--C6y	2C1-	DDe
Br phPAmb	y:1	yyG6	1-2C1M	1--Cy1	1--C71	1C1M	DDe
BAmb m8%	2-y:1				1-2		E
BAmb m8%	2-y:2				yy		E
Bpmb A5r	N1:1						qDw
0sCb Amb	1-N:1	N G4	N C1N	N7C N	N-C67	2C1-	DDe
0sCb Amb	1-6:1	N C2	NMC61	NyC26	N6G6	C4N	DDe
0sCb Amb	111:1	1-4C11	1- C16	1-NC1N6	1-MC7	2Cy-	DDe
0sPqAmb	4 :1	1N71Cy	1yM6C5y	1y1-C21	1y12C76	2C2	DDe
0sPqAmb	44:1	1NN-C47	1y46GN	1y2MC21	1y17C2M	1C7M	DDe
0spen5	12:1						qDw
0spen5	12:2						qDw
0%Pnp5r	M1						qDw
0%Pnp5r	M2						qDw
0%pmb Amb	M2:2	y G6	y C7N	yMC1N2	y4C22	1C1M2	DDe
0nesP&	My:2	yMC1y	yMC5N	y7C1M	y6C14	1C-	DDe
0nDDr p	6 :2	y C16	y4G2	y6C1N6	y4C1N	1C1N7	DDe
t hwDpnwAmb	1M6:1						qDw
t hwDpnwAmb	1M6:2						qDw
GpeAmb	164:1						qDw
GpeAmb	164:2						qDw
HsCnP5Amb	16-:1						qDw
HsCnP5Amb	16-:2						qDw
KnP Amb	16M1				1-		E
KnP Amb	16M2				1-1		E
S5CAmb	11M1				1-		E
S5CAmb	11M2				1-1		E
Spn5	M4:2	2-4-C14	2-64G66	21-MC12	2-7-Gy	1C1N	DDe
Spn5	M6:2	2-27C1N	2-M-CN	21-NC76	2-62C24	2G	DDe
Spn5	M7:2	1y- C42	1y yG4	2-11G1	1yM1C16	2C1N1	DDe
kphD&n5	N :1						qDw
LrsO	2-6:1	1yMCyN	1y7C7y	1y6C1M	1y6C1N7	-C46	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9J	LB126466	o Dr ps&mp9J	aswl sP
Lse9l sb DP9S 9J9	S)3-76	S5w&pmb 5r &u sb r 9J	8N
0 PA5&9l sb DP9S 9J9	S)3-76	t APr&N59 sq&mp9J	1
t s&9T9 Av r 9c qdmAr C9J	2-2 :-7:14914.J2-J12	t s&s. AP9u sb r 9J	-12S)3CC

8spsb r &p	g sww	0n5Ur D1	0n5Ur D2	0n5Ur D	cRvC9 0n5qC	0n5qUI t	F5A&w
LrsO	2-7:1	1y20NN	1y C7	1y6C1-	1y4C1y	-C7	DDe
LrsO	2-N:1	2-20M2	2-6C52	2-NC24	2-MC7y	1C4	DDe
LA&%Amb	6:1				1--		E
g sv5r wAmb	24:2	117yC4	11MyCy2	117MCN	1171C7	-CNy	DDe
g s5vs5r wr	MM2	y C16	y C1N	y4C76	y C7-	-CyN	DDe
g nPheCr 5mb	y4:1	-CN6	-Cy	-CN-	-CN6	NC-4	DDe
g nPheCr 5mb	yM1	-CN4	-CN	-CN	-CN	-Cy	DDe
g nPheCr 5mb	y6:1	-CN1	-Cy-	-CN2	-CN4	MCy6	DDe
g nPheCr 5mb	y7:1	-Cy-	-C7y	-CN-	-CN	7C47	DDe
g nPheCr 5mb	yN:1	-CN1	-Cy-	-CNM	-CN6	MC-6	DDe
ur nChb Amb	1M-:1						qDw
ur nChb Amb	1M-:2						qDw
uAqfr P	6-:2	1-MC66	1-NC1y	1-6C27	1-6C71	1C24	DDe
8%nwD%npmw	1:2	:1MC7-	:4CN1	:14CMM	:11C6y		DDe
8n&swwAmb	y:2	1y11CM6	1y6 CMy	1y67C77	1y47C64	1C61	DDe
U%nOAmb	1- :1				1-2		E
U%nOAmb	1- :2				1-2		E
I qs5OAmb	4M1				1-1		E
I qs5OAmb	4M2				yy		E
I rP5Amb	N2:1	2-NC1N	212C	2-6C16	2-NCNy	1CM1	DDe
I rP5Amb	77:2	214C4	1y2C7	21MCNy	2-7C6M	6C24	DDe
I rP5Amb	7N:2	2-yC4y	2-1Cy6	2-yC	2-6Cy	2C-N	DDe
I APqn5	2N:1	C1N	MC-	MC6	4C61	27CMN	DDe
I APr p	1-7:1	4NC-1	4NCMM	M-C4	4NCy6	2C4y	DDe
I APr p	1-y:1	M-CN6	4yCN1	M-CNN	M-CM2	1C21	DDe
I nOAmb	2 :2	2-47C-1	2-2NCNy	2-62Cy	2-46Cy	-CN2	DDe
I &n5&Amb	N6:1	1C7M	1C44	1CMN	1CMy	yC66	DDe
I &n5&Amb	NN:1	1C66	1CM-	1C74	1C6	7CM	DDe
I mPVmp	4:1	:M7-C6-	:2 1C7	:422C7M	:4-NC24		DDe
i r peAmb	1My:1				1-		E
i r peAmb	1My:2				1--		E
i %sPAmb	2- :1	2-4C6M	2-NC11	2-4Cy7	2-MCy1	-Cy	DDe
i %sPAmb	2-M1	217C4M	226C2	21yCy	221C2	2C7	DDe
i A5	11N:1	-C1N	-C17	-C1N	-C17	CM	DDe
i A&5Amb	47:1	-CNM	-Cy2	-C6-	-C7y	21CMN	DDe
Fps5Amb	2 N:1	-C6	-C6	-C6	-C6	1C6N	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9umb er p9J	LB126466	o Dr ps&mp9J	aswl sP
Lse9l sb DrP9&l 9J9	S03-76	S5w&pmb 5r &u sb r 9J	8N
0 FA5&9l sb DrP9&l 9J9	S03-76	t ArmA59 sq&mp9J	1
t s&9T9 Ao r 9c qdmAr C9J	2-2 :-7:14914.J2-J12	t s&s. Ar 9u sb r 9J	-12S03CC

8spsb r &p	g sww	0 n5Ur D1	0 n5Ur D2	0 n5Ur D	cRvC9 0 n5qC	0 n5qUI t	F5A&w
3s5sOAmb	M1:2	y4C4N	y4CN7	yMC7M	yMC	-C6y	DDe
Y&kpeAmb	172:1						qDw
Y&kpeAmb	172:2						qDw
Y&kpeAmb	176:1						qDw
Y&kpeAmb	176:2						qDw
Y&kpAmb	Ny:1				1-2		E
Y&kpAmb	Ny:2				1-1		E
ZA5q	66:2	1NNC11	1N C2y	1y6G2	1NyC14	C4-	DDe
ZAqn5Amb	y-:1	-Gy	-Gy	-GN	-Gy	6G4	DDe
ZAqn5Amb	y1:1	-C12	-C1M	-C1	-C1	1-CN2	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	o Dr ps&mp:9	aswl sP
Lse:I sb DPP:S :9	SD B3-6	S5w&pmb 5r &u sb r :9	8N
0 PA 5&I sb DPP:S :9	SD B3-6	t AP&N5:Fsq&mp:9	1
t s&:T:i A r :cqdmAr O:9	2327 3- 14:149279J1	t s&sFAP:u sb r :9	31700 BC.O

8 spsb r &p	Msww	0 n5Rr D1	0 n5Rr D2	0 n5Rr D7	c vg.:0 n5q.	0 n5qRI t	U5A&w
c Pmb A5Amb	2- 2	1.2N	3.-6	1.26	1.13	26.J4	DDe
c 5&b n5y	121 1	3.12	3.12	3.11	3.12	J.32	DDe
c pwr 5Aq	-J 2	3.37	3.34	3.31	3.37	66.22	DDe
BspAmb	17J 1	3.12	3.1h	3.3h	3.17	7h.13	DDe
BspAmb	17- 1	3.12	3.3N	3.3h	3.13	27.J3	DDe
Br pyPAmb	h 1	3.3J	3.3J	3.3J	3.3J	2.J-	DDe
BAwb m8%	23h 1				133		E
BAwb m8%	23h 2				hh		E
Bpmb A5r	N1 1						qDw
0 sCb Amb	13N 1	3.27	3.31	3.16	3.17	h4.17	DDe
0 sCb Amb	136 1	2.37	2.3-	2.N2	2.71		DDe
0 sCb Amb	111 1	3.14	3.13	3.1N	3.14		DDe
0 sPqAmb	47 1	J.Nh	4.67	-.-h	6.13	26.31	DDe
0 sPqAmb	44 1	1N.62	1N.1J	27.66	23.14	1J.16	DDe
0 spen5	12 1						qDw
0 spen5	12 2						qDw
0 %Pnp5r	7J 1						qDw
0 %Pnp5r	7J 2						qDw
0 %pmb Amb	J2 2	3.32	3.3J	3.31	3.32	1J3.1h	DDe
0 nesP&	Jh 2	3.37	3.31	3.31	3.32	6h.26	DDe
0 nDDr p	67 2	3.73	3.2-	3.27	3.2-	12.N6	DDe
t ywDpnwAmb	1J6 1						qDw
t ywDpnwAmb	1J6 2						qDw
CpeAmb	164 1						qDw
CpeAmb	164 2						qDw
GsCnP5Amb	163 1						qDw
GsCnP5Amb	163 2						qDw
HnPb Amb	16J 1				132		E
HnPb Amb	16J 2				131		E
S5CAmb	11J 1				137		E
S5CAmb	11J 2				131		E
Spn5	J4 2	4.31	7.1N	J.73	4.16	2J.62	DDe
Spn5	J6 2	7.2J	2.h4	1.-1	2.67	71.3-	DDe
Spn5	J- 2	2.hN	1.3N	3.hN	1.6N	66.h4	DDe
KpyD&n5	N7 1						qDw
Lr sO	236 1	3.1-	3.14	3.11	3.14	1N.-h	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	o Dr ps&mp:9	aswl sP
Lse:I sb DPP:S :9	SD B3-6	S5w&pmb 5r &u sb r :9	8N
0 PA 5&I sb DPP:S :9	SD B3-6	t APm&N5:Fsq&mp:9	1
t s&:T:i Ao r :cqdmAr O.9	2327 3- 14:149279J1	t s&sFAP:u sb r :9	3170 0 BC.O

8 sp sb r & p	Msww	0 n5Rr D1	0 n5Rr D2	0 n5Rr D7	c vg.:0 n5q.	0 n5qRI t	U5A&w
Lr sO	23- 1	3.1-	3.16	3.12	3.1J	1N.hh	DDe
Lr sO	23N 1	3.1-	3.14	3.17	3.1J	14.42	DDe
LA&%Amb	6 1				133		E
Msg5r wAmb	24 2	6.24	J.12	4.3N	J.1J	21.33	DDe
Ms5gs5r wr	JJ 2	3.23	3.11	3.13	3.17	41.11	DDe
MnPyeOr 5mb	h4 1	3.22	3.1-	3.1N	3.1h	14.J6	DDe
MnPyeOr 5mb	hJ 1	3.1-	3.23	3.1-	3.1N	N.16	DDe
MnPyeOr 5mb	h6 1	3.2-	3.1h	3.17	3.23	7J.1N	DDe
MnPyeOr 5mb	h- 1	3.2-	3.1-	3.27	3.22	27.26	DDe
MnPyeOr 5mb	hN 1	3.21	3.27	3.21	3.22	J.44	DDe
u r nOyb Amb	1J3 1						qDw
u r nOyb Amb	1J3 2						qDw
u Aqkr P	63 2	3.32	3.31	3.33	3.31	NN.7-	DDe
8 %nwD%npnw	71 2	22.62	1- .h7	2h.6N	27.41		DDe
8 n&swwAmb	7h 2	2J.Nh	7J.h-	73.13	73.6J	16.J2	DDe
R%nOAmb	137 1				133		E
R%nOAmb	137 2				133		E
I qs5OAmb	4J 1				131		E
I qs5OAmb	4J 2				hh		E
I rP 5Amb	N2 1	3.13	3.73	3.72	3.1N		DDe
I rP 5Amb	- - 2	1.3J	1.3J	1.3J	1.3J		DDe
I rP 5Amb	- N 2	3.4J	3.36	3.34	3.16		DDe
I APqn5	2N 1	3.42	3.hN	1.26	3.3J		DDe
I APr p	13- 1	3.3-	3.36	3.36	3.36	14.7-	DDe
I APr p	13h 1	3.3J	3.34	3.34	3.34	16.- J	DDe
I nOAmb	27 2	41.- -	42.4-	46.14	47.46	J.43	DDe
I &n5&Amb	N6 1	3.J2	3.44	3.2-	3.41	71.3N	DDe
I &n5&Amb	NN 1	3.Jh	3.J4	3.7N	3.J3	22.34	DDe
I mPmp	74 1	631.JN	1- - .NN	- h.J7	277.71		DDe
i r peAmb	1Jh 1				132		E
i r peAmb	1Jh 2				131		E
i %sPAmb	237 1	3.11	3.36	3.3N	3.3h	26.44	DDe
i %sPAmb	23J 1	3.13	3.3N	3.3N	3.3h	1- .37	DDe
i A5	11N 1	3.37	3.31	3.34	3.31		DDe
i A&5Amb	4- 1	3.27	3.2-	3.3h	3.1h	4h.21	DDe
Ups5Amb	27N 1	3.31	3.31	3.31	3.31	2J.h7	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p9	LB126466	o Dr ps&mp9	aswl sP
Lse:I sb DPr:St :9	SD B3-6	S5w&mb 5r &u sb r :9	8N
0 PA5&I sb DPr:St :9	SD B3-6	t ArnA5:Fsq&mp9	1
t s&:T:i Ao r :c qdmAr O.9	2327 3- 14:149279J1	t s&sFAr:u sb r :9	31700BC.O

8 spsb r &p	Msww	0 n5Rr D1	0 n5Rr D2	0 n5Rr D7	c vg.:0 n5q.	0 n5qRI t	U5A&w
Vs5sOAmb	J1 2	3.32	3.31	3.33	3.31	N1.4-	DDe
Y&pe Amb	1-2 1						qDw
Y&pe Amb	1-2 2						qDw
Y&pe Amb	1-6 1						qDw
Y&pe Amb	1-6 2						qDw
Y&pAmb	Nh 1				132		E
Y&pAmb	Nh 2				133		E
ZA5q	66 2	3.16	3.37	3.34	3.3N	h3.7N	DDe
ZAqn5Amb	h3 1	3.32	3.32	3.31	3.32	27.26	DDe
ZAqn5Amb	h1 1	3.3J	3.31	3.32	3.37	6h.J3	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJa	LB126466	ODplw&lJa	swl Pw8
Lwr J3we D&pJ3 JaJ	S03-7 6	Snl &be np&mwe pJa	Nu
0 8pn&3we D&pJ3 JaJ	S03-7 6	t A&8&nJCwc&lJa	1
t w&pJTJ Ae pJ cqbApdJa	272:97 914J14a46a2:	t w&vCA&pJmwe pJa	71uS03-5d

Nwlwe p&pl	v wl l	0 onF pD1	0 onF pD2	0 onF pD:	- URS0 onc5	0 oncF 3t	. nA&
- 8be AnAbe	2 92	gu7MM5u6	gu2 M52	177g 45gM	gg17257:	1564	DDr
- n&e ony	12191	151:	1517	1516	151:	25M7	DDr
- Il pnAc	M92	7541	754:	75M	7546	1:56M	DDr
BwlAbe	1:M91	15M4	1544	15 1	154:	5gM	DDr
BwlAbe	1: 91	1567	1547	15M2	15M7	656g	DDr
Bply8Abe	g91	752u	75 1	75 7	75 7	M51M	DDr
BAAe b&n	27g91				gu		%
BAAe b&n	27g92				gM		%
Bloe Anp	u191						cDl
0wde Abe	17u91	1 5g	1M57	165 M	16547	u52	DDr
0wde Abe	17691	9456M	9 5u:	9 5M4	94571		DDr
0wde Abe	11191	752	752g	7522	7526	1:5:	DDr
0w&cAbe	4:91	174:gu564	17411:5u1	gg4g757	17266 5M1	256u	DDr
0w&cAbe	4491	17267g56g	1721: 57:	gg66u5M2	1714 15 M	15M6	DDr
0wlr on	1291						cDl
0wlr on	1292						cDl
0h&lAnp	:M91						cDl
0h&lAnp	:M92						cDl
0hloe Abe	M292	1u5M4	1u56g	1u5	1u5M4	75uM	DDr
0or w&c	Mg92	157u	157u	151:	1517	25 7	DDr
0oDDpl	6:92	522	512	524	51g	75ug	DDr
t yl Dlol Abe	1M691						cDl
t yl Dlol Abe	1M692						cDl
Elr Abe	16491						cDl
Elr Abe	16492						cDl
Gwdo8AnAbe	16791						cDl
Gwdo8AnAbe	16792						cDl
Ho&e Abe	16M91				17M		%
Ho&e Abe	16M92				171		%
SndAbe	11M91				172		%
SndAbe	11M92				g		%
Son	M492	172u 6574	171u1g5 7	1726M6566	1724M756	75M4	DDr
Son	M692	171u6 5u1	172 M252u	171M g5M7	1727M 527	7561	DDr
Son	M 92	17412g56	1746 u574	174474542	174474574	7526	DDr
KlyD&on	u:91						cDl
Lpwd	27691	454:	454M	45M1	4546	75g6	DDr

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r pIJa	LB126466	ODpIw&oIJa	swI Pw8
Lwr J3we D&pJ3 JaJ	S03-7 6	SnI &be np&mwe pJa	Nu
0 8pn&J3we D&pJ3 JaJ	S03-7 6	t A&o&onJCwc&oIJa	1
t w&pJTJ Ae pJ cqbApdJa	272:97 914J14a46a2:	t w&wCA&pJmwe pJa	71uS03-5d

NwIwe p&pI	v wI I	0 onF pD1	0 onF pD2	0 onF pD:	- URS0 onc5	0 oncF 3t	. nA&
Lpwd	27 91	457u	4517	4576	457u	754M	DDr
Lpwd	27u91	451g	452u	452:	452:	157g	DDr
LA&nAse	691				gu		%
v wRnpI Ase	2492	g62675 1	g 67M5g	g416: 54g	g677g5g:	15u1	DDr
v wnRwnpI p	MM92	51u	52g	5 4	52	1514	DDr
v o8yr dpnbe	g491	166 577	16 456u	16115M6	16M157u	257g	DDr
v o8yr dpnbe	gM91	1gu754u	1gu151:	1u6g5 g	1g4: 56	: 5 1	DDr
v o8yr dpnbe	g691	1g625	1g6g527	1g72564	1g445u	15ug	DDr
v o8yr dpnbe	g 91	1gg 514	27: 45u4	1gM4526	1ggM541	2572	DDr
v o8yr dpnbe	gu91	1g6 522	272u5 6	1g165 :	1g 75g7	25uM	DDr
mpodye Ase	1M791						cDI
mpodye Ase	1M792						cDI
mAskp8	6792	M5u2	M5Mg	M56g	M5 7	15g6	DDr
NhoI DhoIbI	: 192	g661u51M	g64 M542	gMM4u54M	g62145 71	7567	DDr
No&wI I Ase	: g92	g62: 45M2	gu: 1 5 :	g g 654	g M7g544	151M	DDr
F hodAse	17: 91				177		%
F hodAse	17: 92				gu		%
3 cwndAse	4M91				172		%
3 cwndAse	4M92				gg		%
3 p8pnAse	u291	9757 2	975M4	97546	975 4		DDr
3 p8pnAse	92	9157M	9157M	9157M	9157M		DDr
3 p8pnAse	u92	75M1	75 1	975 4	7516	2 u51:	DDr
3 A&con	2u91	: M51	: 45g1	: 45 M	: 45u1	1521	DDr
3 A&Upl	17 91	7572	7571	757:	7572	: g5u1	DDr
3 A&Upl	17g91	7572	7572	757:	757:	1 5g2	DDr
3 odAse	2: 92	172ug25u6	1722 M5M7	1716275 4	1722625g4	7562	DDr
3 &onA&se	u691	: M5 1	: 456u	: : 5 u	: 4546	25uM	DDr
3 &onA&se	uu91	: 4561	: 45u1	: 4517	: 45M1	157	DDr
3 b3bI	: 491	gM7u544	gug 5 :	6 g15g6	u : 25 1	251M	DDr
i pIr Ase	1Mg91				17:		%
i pIr Ase	1Mg92				171		%
i hwBse	27: 91	7512	7512	7512	7512	7542	DDr
i hwBse	27M91	7511	7511	7511	7511	154M	DDr
i An	11u91	7527	7527	7514	751u	1g5 1	DDr
i A&wnAse	4 91	2166652	21 45g7	27g25g7	21445u1	2517	DDr
. IwnAse	2: u91	7572	7574	757:	757:	1u541	DDr

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r pIJa	LB126466	ODpIw&IJa	swI Pw8
Lwr J3we D&pJ3 JaJ	S03 - 7 6	Sml &be np&mwe pJa	Nu
0 8&pn&J3 we D&pJ3 JaJ	S03 - 7 6	t A&o&&nJCwc&IJa	1
t w&pJTJ Ae pJ cqbApdJa	272: 97 914J14a46a2:	t w&vCA&pJmwe pJa	71uS03 - 5d

NwIwe p&pI	v wI I	0 onF pD1	0 onF pD2	0 onF pD:	- URS0 onc5	0 oncF 3 t	. nA&
VwnwdAve	M192	7516	751M	751	7516	6517	DDr
Y&pIr Ave	1 291						cDI
Y&pIr Ave	1 292						cDI
Y&pIr Ave	1 691						cDI
Y&pIr Ave	1 692						cDI
Y&&Ave	ug91				17:		%
Y&&Ave	ug92				177		%
ZAnc	6692	1157:	17527	175 :	175M2	452:	DDr
ZAconAve	g791	757:	757:	7571	7572	M7524	DDr
ZAconAve	g191	7571	757:	7577	7571	12: 56	DDr

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJb er pl Da	LB126466	o t l DPTnDa	l P8NPu
LPpJ3Pr t ul J&JaJ	S)3 - B7 6	S58TDer 5l TbPr l Ja	mw
0 ut 5TJ3Pr t ul J&JaJ	S)3 - B7 6	&ceTn5JFPqTnDa	1
&PTl J JAcr l J qdecD QJa	272: 97 914J14as7a2w	&PTPFcul Jb Pr l Ja	71CS)3B.O

mPDPr l TlD	MP88	0 n5Rl t 1	0 n5Rl t 2	0 n5Rl t :	- vg.J0 n5q.	0 n5qR3&	U5cB
- uer c5cer	2 92	CswCC. :	C674 .22	C: 772.1s	C4Cw. .7:	1.w1	t t p
- 5Tcr n5y	12191	27.24	27.61	27. 7	27.s2	1.1w	t t p
- DBl 5cq	s92	1C. 6	27. 7	1C.: 7	1C.C2	: .67	t t p
BPDcer	1: s91	27.: 1	27.64	27.w	27.61	1.:	t t p
BPDcer	1: 91	21.4w	27.: 4	21.12	27.Cw	2. w	t t p
Bl Dyucer	C91	1w.61	1C.: 7	1C.7:	1w.Cw	1.w6	t t p
Bc8r eTn	27C91				CC	%	
Bc8r eTn	27C92				C	%	
BDnr c5l	w191					qt 8	
0 PCr cer	17w91	: 1.24	: 1.7w	: 1.21	: 1.1w	7.2	t t p
0 PCr cer	17691	12.7w	11.w2	11. w	11.wC	1.47	t t p
0 PCr cer	11191	1C.2s	1C.64	1C.6s	1C.s1	1.16	t t p
0 Puqcer	4: 91	Cw C1.4w	C6w1s.27	Cw7w7.C	C wCs.ww	1.72	t t p
0 Puqcer	4491	C64 .77	CsC: C. s	C6C4w.26	C64ss.77	7.s2	t t p
0 PDpn5	1291					qt 8	
0 PDpn5	1292					qt 8	
0 hunD5l	: s91					qt 8	
0 hunD5l	: s92					qt 8	
0 hDnr cer	s292	: s. w	: 6.C4	: s.C4	: 6.22	1. 4	t t p
0 npPuT	sC92	1C.1s	1C.wC	1C.4w	1C.s1	1.wC	t t p
0 nt t l D	6: 92	24.s6	2s.26	24.47	24. 4	1.ws	t t p
&y8t Dn8cer	1s691					qt 8	
&y8t Dn8cer	1s692					qt 8	
EDpcer	16491					qt 8	
EDpcer	16492					qt 8	
GPOnuc5cer	16791					qt 8	
GPOnuc5cer	16792					qt 8	
Hnur cer	16s91				176	%	
Hnur cer	16s92				17:	%	
S5Ocer	11s91				17s	%	
S5Ocer	11s92				Cw	%	
SDn5	s492	177164.77	1741 w.sw	CC1w7.7s	1711 4.21	2.62	t t p
SDn5	s692	C 221. C	CCs4: .66	17726w.s4	CC711.: :	1.61	t t p
SDn5	s 92	Cw7 1.1s	172C4s.2:	CCw41.w6	1772w6.7w	2.46	t t p
KDytTn5	w: 91					qt 8	
LI PO	27691	2s.C7	2s.s7	26.wC	26.7C	2. 4	t t p

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJob er pl Da	LB126466	o t l DPTnDa	l P8NPu
LPpJ3Pr t ul J&JaJ	S)3 - B7 6	S58TDer 5l TbPr l Ja	mw
0ut 5TB Pr t ul J&JaJ	S)3 - B7 6	&ceTn5JFPqTnDa	1
&PTl J JAcr l J qdecD QJa	272: 97 914J14as7a2w	&PTPFcul Jb Pr l Ja	71CS)3B.O

mPDPr l TlD	MP88	0n5Rl t 1	0n5Rl t 2	0n5Rl t :	- vg.J0n5q.	0n5qR3&	U5cB
LI PO	27 91	24.w2	2s.: 2	2s.C7	2s.: s	2.1s	t t p
LI PO	27w91	2s.: s	2s.ss	26.: s	2s. s	2.76	t t p
LcTher	691				172		%
MPg5l 8er	2492	C26 7.w	Cs1: 6.77	C: s1: .16	C: : .: 4	1.: 4	t t p
MP5gP5l 8l	ss92	24.6s	2s.6w	24.67	24.Cw	2.44	t t p
MnuypCl 5er	C491	162: .14	1614.4s	1676.: 1	1614.64	7.s2	t t p
MnuypCl 5er	Cs91	1C1s.C7	1C14.74	1ws6.2w	1wCs.41	1. C	t t p
MnuypCl 5er	C691	1wCs. C	1C7: .16	1w4 .C7	1ww2.2C	1.sC	t t p
MnuypCl 5er	C 91	1Cw7.s	1C: 1.1s	1wC4.s	1C: s.4:	2.2:	t t p
MnuypCl 5er	Cw91	1C1 . 1	1wCs.1C	1ws4.C6	1wwC.2C	1.6w	t t p
b l nCyr cer	1s791						qt 8
b l nCyr cer	1s792						qt 8
b cqkl u	6792	2: .64	24.6	24.7s	24.12	2.14	t t p
mhn8t hnDe8	: 192	C471C. C	Cs147.2	C22s .w1	C: w7s.C6	1.ss	t t p
mnTP88cer	: C92	Cs1C2.1C	C : : w.26	Cs1 2.Cw	CsC71.14	1.: 7	t t p
RhnOcer	17: 91				177		%
RhnOcer	17: 92				C		%
3qP5Ocer	4s91				17:		%
3qP5Ocer	4s92				CC		%
3l ul 5cer	w291	1C.w7	1w.w	1C.76	1C.24	2.s	t t p
3l ul 5cer	92	1s.6	21.1w	14.61	1 .1s	27.s	t t p
3l ul 5cer	w92	1w.C7	1C.: 6	1 . 4	1w.66	4.4	t t p
3ccqn5	2w91	: : .ws	: : .w4	: 6.s4	: 4. 4	4.4w	t t p
3cvl D	17 91	1 .C4	1w.2C	1w.: 1	1w.1w	1.14	t t p
3cvl D	17C91	1w.1	1w.s1	1w.6s	1w.44	1.: :	t t p
3nOcer	2: 92	C : C.42	177: sC.74	CC 1: .11	CC1s7.s:	1.sw	t t p
3TDn5Ter	w691	: 2.6:	: : .11	: 2.s2	: 2. s	7.C6	t t p
3TDn5Ter	ww91	: : .ss	: 4.17	: 2.w1	: : .4C	1.C4	t t p
3eufeD	: 491	4w. : .w	: 6ws.s7	: ssC.C2	4726.4:	7.Cs	t t p
Al Dpcer	1sC91				17s		%
Al Dpcer	1sC92				174		%
AhPucer	27: 91	27.11	27.44	27.C:	27.s7	2.71	t t p
AhPucer	27s91	27. 4	27.C7	21.24	27.C6	1.21	t t p
Ac5	11w91	7.12	7.16	7.14	7.14	1s.s2	t t p
AcP5cer	4 91	27w7.: C	27w7.16	27 .2:	27 C.26	7.7w	t t p
UDP5cer	2: w91	7.72	7.72	7.7:	7.7:	17.w2	t t p

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB.Jb er pl Da	LB126466	o t l DPTnDa	l P8NPu
LPpJ3 Pr t ul J&.Ja	S)3 - B7 6	S58Der 5l Tb Pr l Ja	mw
0 ut 5TB Pr t ul J&.Ja	S)3 - B7 6	&ceTn5JFPqTnDa	1
&PTl J JAcr l J qdecD QJa	272: 97 914J14as7a2w	&PTPFcul Jb Pr l Ja	71CS)3B.O

mPDPr l Tl D	MP88	0 n5Rl t 1	0 n5Rl t 2	0 n5Rl t :	- vg.J0 n5q.	0 n5qR3 &	U5cB
VP5POcer	s192	1w.ss	1C.2w	1C.: :	1C.7s	2.: 1	t t p
YTTDpcer	1 291						qt 8
YTTDpcer	1 292						qt 8
YTTDpcer	1 691						qt 8
YTTDpcer	1 692						qt 8
YTDcer	wC91				17s		%
YTDcer	wC92				177		%
Zc5q	6692	2w. 1	2w.66	2C.74	2w.w7	7. 1	t t p
ZcDqn5cer	C791	7.71	7.71	7.72	7.72	: 1.76	t t p
ZcDqn5cer	C191	7.74	7.74	7.7	7.7s	: : .s:	t t p

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB9mbe r pI9J	LB126466	5 t pIwiCI9J	swl Pw8
Lwr 9Dwe t 8p9ST9J9	SS032-	&l ilbe . pi9mwe p9J	Nu
S8p. i9Dwe t 8p9ST9J9	SS032-	Tqbiq C. 9UwOCI9J	1
Twip9A9cqe p9dOobdpn9J	2327 3: 14914Ja7J21	TwiwUqb9mwe p9J	323SS0Fn

Nwlwe pipl	y wl l	SC. v pt 1	SC. v pt 2	SC. v pt 7	dgMF9SC. OF	SC. Ov DT	R. qil
d8be q dpe	2: 2	a1131F72	4u- - 2F1a	a26a3F66	a3- 14F. 1	7F61	t t r
d. iqe C. h	121 1	4- uF4-	4- 1F62	a14F44	a31Fa2	2F77	t t r
dIl p. qO	: a 2	a1aF. a	a1: F- 3	a36F2-	a17F71	1F23	t t r
Bwldpe	17a 1	2a3uF27	2a24F. 2	2a6- F44	2a74F17	1F2a	t t r
Bwldpe	17: 1	2a2uF7:	2a21F- -	2a26F. -	2a2aF. 2	3F17	t t r
BplhS8pe	- 1	4: aFu3	466F67	4- aF36	4: - F16	7F37	t t r
Bqie bi%	23- 1				133		E
Bqie bi%	23- 2				- 3		E
BlCe q p	u1 1						Ol
Swne dpe	13u 1	4- 1F7u	a31F2u	a3aF3a	4- - F24	1F41	t t r
Swne dpe	136 1	4u- Fu1	4- uF. 2	4- - F- :	4- 6F1:	1F12	t t r
Swne dpe	111 1	4u6F6-	a3aF6u	a13Fa1	a33F- 6	2Fa1	t t r
SwSqpe	47 1	247616F71	24auu6Fu-	2a4741F- -	24: - 4uF7-	2F2u	t t r
SwSqpe	44 1	27: u36Fuu	24a476Fu2	2a32a3Fu3	2444- uF1:	2Fa:	t t r
SwIr C.	12 1						Ol
SwIr C.	12 2						Ol
S%SCIq p	7a 1						Ol
S%SCIq p	7a 2						Ol
S%ICe dpe	a2 2	4- 3F. -	4: 4F- 4	46: F- 4	4: : Fu-	2F4a	t t r
SOr w8	a- 2	4- uF. 3	4: 6F47	46aF34	4u3F36	7Fa:	t t r
SOt t pl	67 2	4- 66F76	4- 22F- 3	4u66F4-	4- 1uFau	1F32	t t r
ThI t ICI dpe	1a6 1						Ol
ThI t ICI dpe	1a6 2						Ol
GIr dpe	164 1						Ol
GIr dpe	164 2						Ol
HwnCSq dpe	163 1						Ol
HwnCSq dpe	163 2						Ol
KCSe dpe	16a 1				13-		E
KCSe dpe	16a 2				- u		E
&ndpe	11a 1				134		E
&ndpe	11a 2				- 2		E
&C.	a4 2	12- a22F4a	12uau4F6-	12a466F31	12: ua: F. 2	1F66	t t r
&C.	a6 2	12ua77F3:	122- u1F6-	12a277F12	12aau2F62	2F22	t t r
&C.	a: 2	173a- 7F34	12a432F16	12a636F- 3	12: 233F. 3	2F71	t t r
kIht iC.	u7 1						Ol
Lpwn	236 1	241: Fa6	24: 1F37	2aa: F17	24u1F- 3	2Fu4	t t r

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Inst Id :P8

LB9mbe r pI9J	LB126466	5 t pIwiCI9J	swI Pw8
Lwr 9Dwe t 8p98T 9J9	SS032-	&l ilbe . pi9mwe p9J	Nu
S8p. i9Dwe t 8p98T 9J9	SS032-	T8piqC. 9JwCICI9J	1
Twip9A9cqe p9dCobdpn9J	2327 3: 14914Ja7J21	TwiwUq8p9mwe p9J	323SS0Fn

NwIwe pipI	y wI I	SC. v pt 1	SC. v pt 2	SC. v pt 7	dgMF9SC. CF	SC. Cv DT	R. qI
Lpwn	23: 1	27u7F24	2a37F. 6	2a4aF21	24: : F43	7F43	t t r
Lpwn	23u 1	2414F62	2a17F47	2a: - F61	2a32Faa	7F72	t t r
Lq%dpe	6 1				- -		E
y wM pI dpe	24 2	2a2- 7- F21	2a2: a7Fu3	2a23aaF- 6	2a2au2F- -	3F1u	t t r
y w. Mw. pI p	aa 2	4- : : F6a	4- : : F. 7	4- a3Fa7	4- 6uF64	3F72	t t r
y C8hr np. be	- 4 1	4u- 1F63	4u42F. :	a1a- F36	4- 64F4u	7F47	t t r
y C8hr np. be	- a 1	4: 6- F36	4uu- F3:	a13: F6-	4- 21F- 4	7F4-	t t r
y C8hr np. be	- 6 1	4u- aF26	4- 1uF17	a1uaFu4	4- - - F. a	7F27	t t r
y C8hr np. be	- : 1	4u- 2F42	4u6aF6:	a23aF3:	4- u: F. 2	7F. u	t t r
y C8hr np. be	- u 1	4- 23F3:	4- 64Fu:	a247Fa7	a342Fu2	7F4u	t t r
mpCnhe dpe	1a3 1						CI I
mpCnhe dpe	1a3 2						CI I
mqCr p8	63 2	4- 2F16	4u: F7-	4u2F. 7	4u: F47	3F- :	t t r
N%CI t %CIbI	71 2	- : 7aF31	- u- 6Fa-	- : : aF11	- u32F24	3Fu6	t t r
NCiwI I dpe	7- 2	126- 1- F. 3	12216uF. 7	122au2F47	127u- 3F2-	2F12	t t r
v %Cndpe	137 1				- -		E
v %Cndpe	137 2				- 1		E
DCw. ndpe	4a 1				13a		E
DCw. ndpe	4a 2				- 4		E
Dp8p. dpe	u2 1	4: : F- 6	4u1F4u	a3aF7u	4uuF2:	7F36	t t r
Dp8p. dpe	: : 2	a3uF23	4u1F3u	4- 1F. u	4- 7F6-	2F. :	t t r
Dp8p. dpe	: u 2	4u- F. 7	a3- F63	4: 4F6-	4- 1F74	7Fa6	t t r
D8qqC.	2u 1	47: F7u	462F37	4uuF44	462F62	aFa2	t t r
D8qgpI	13: 1	4: 7F27	4u2F32	4uuF2-	4u1F1u	1Fa:	t t r
D8qgpI	13- 1	4uaF2u	4- 2F4u	4- - F74	4- 2F7:	1F47	t t r
DCndpe	27 2	2a: u67Fu:	24- a1: F1:	2a3- a- F4:	2a2: u3F1:	1F. 6	t t r
DiIC. idpe	u6 1	1211- F22	1223: Fa-	12: uaF42	127: 3F. a	2F- 2	t t r
DiIC. idpe	uu 1	11- : 6F61	122auF- 6	12u1- F31	127a1Fa7	7F4:	t t r
Db8%I	74 1	ua22F- 3	uu2: F4-	- : 4aF- u	- 372F12	: F3a	t t r
cpIr dpe	1a- 1				13u		E
cpIr dpe	1a- 2				- :		E
c%w8pe	237 1	4u7F11	4- : F17	a1: F. 3	4- - F71	7F4u	t t r
c%w8pe	23a 1	4u- F7a	4- aF. 7	a22F- u	a32F6-	7Faa	t t r
cq	11u 1	4- aF- :	a3uF67	4- - F3a	a31F22	1F72	t t r
cqw. dpe	4: 1	4ua7F37	4- - 6Fa:	a327F4:	4- a: F6-	1Fua	t t r
RIw. dpe	27u 1	4- 3F. u	a11F- -	a12F22	a34F- -	2F44	t t r

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Inst Id :P8

LB9mbe r pI9J	LB126466	5 t pIwiCI9J	swI Pw8
Lwr 9Dwe t 8p98T 9J9	SS032-	&I iIbe . pi9mwe p9J	Nu
S8p. i9Dwe t 8p98T 9J9	SS032-	T8piqC. 9UwOICI9J	1
Twip9A9cqe p9dOobdpn9J	2327 3: 14914Ja7J21	TwiwUd8p9mwe p9J	323SS0Fn

NwIwe pipI	y wI I	SC. v pt 1	SC. v pt 2	SC. v pt 7	dgMF9SC. OF	SC. Ov DT	R. qI
0w. wndpe	a1 2	a3-F32	a32Fa7	a33F76	a37F-:	3Fu-	t t r
YiipIr dpe	1: 2 1						OI
YiipIr dpe	1: 2 2						OI
YiipIr dpe	1: 6 1						OI
YiipIr dpe	1: 6 2						OI
YiiIdpe	u- 1				13:		E
YiiIdpe	u- 2				-a		E
ZqO	66 2	a326F42	4-36F-u	4u44F21	4-2aFu:	1Fuu	t t r
ZqOC. dpe	-3 1	4u4F26	a36F-7	a12F.a	a31F71	7F33	t t r
ZqOC. dpe	-1 1	4: 2F1u	4: 1F67	4--F46	4u1F3-	7F71	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	SSB023	tOwTpmb Or T:u sb r:9	8N
SR CTI sb DP:t&:9	SSB023	&dmT5C:UsdT5p:9	1
&sT:i :Adb r:qdOmpr o:9	202-70 714:149J6903	&sTsUdP:u sb r:9	021SSB. Fo

8spsb r Tp	y sww	S5Cv r D1	S5Cv r D2	S5Cv r D-	qgMF:S5CdF	S5Cdv l &	RCdTw
qPmb cCmb	2 72	-F2	4F21	2FJ6	-F- J	24F 4	DDe
qCTb 5Ch	12171	0F2J	0F23	0F2N	0F2	6F66	DDe
qpwr Ccl	J72	0F0-	0F0-	0F02	0F0-	26FJN	DDe
Bspcmb	1-J71	0FJ	0F26	0F1N	0F- -	61FN0	DDe
Bspcmb	1- 71	0F4-	0F16	0F21	0F2	J4F02	DDe
Br phPmb	371	0F03	0F03	0F0	0F0N	1 F0J	DDe
Bcwb mT%	20371				101		E
Bcwb mT%	20372				100		E
Bp5b cCr	N171						dDw
Ssob cmb	10N71	0F2J	70F01	0F00	0F0N	1NNF6J	DDe
Ssob cmb	10671	0F1-	70F4	0F22	70F04		DDe
Ssob cmb	11171	0F03	0F0J	0F11	0F0N	-JF64	DDe
SsPlcmb	4-71	-4F1N	22F1J	20F60	2JF64	23F00	DDe
SsPlcmb	4471	NJF46	6FN-	66FJ2	6F2	12F4-	DDe
Sspe5C	1271						dDw
Sspe5C	1272						dDw
S%F5pcCr	-J71						dDw
S%F5pcCr	-J72						dDw
S%p5b cmb	J272	0F01	0F0	70F0N	0F00	JJ30F1	DDe
S5esFT	J372	0F01	0F01	0F00	0F01	36F	DDe
S5DDr p	6-72	0F63	0F6	0FJJ	0F64	11F4N	DDe
&hwDp5wcmb	1J671						dDw
&hwDp5wcmb	1J672						dDw
. pecmb	16471						dDw
. pecmb	16472						dDw
Gso5RCcmb	16071						dDw
Gso5RCcmb	16072						dDw
H5Pb cmb	16J71				102		E
H5Pb cmb	16J72				101		E
tCocmb	11J71				10-		E
tCocmb	11J72				101		E
tp5C	J472	JF 1	NF63	-F32	6F11	-3F- 3	DDe
tp5C	J672	6FJJ	6F J	-FJ3	JF6-	-1F41	DDe
tp5C	J 72	4F04	4F 2	4F 6	4FJ1	NF3N	DDe
KphDT5C	N-71						dDw
Lr so	20671	0F4J	0F- J	0F2N	0F- 6	2-F24	DDe

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p:9	LB126466	n Dr psT5p:9	aswl sP
Lse:I sb DP:t&:9	SSB023	tOwTpmb Or T:u sb r:9	8N
SR CTI sb DP:t&:9	SSB023	&dPmT5C:UsdT5p:9	1
&sT:i :Adb r:qdOmpr o:9	202-70 714:149J6903	&sTsUdP:u sb r:9	021SSB. Fo

8spsb r Tp	y sww	S5Ov r D1	S5Ov r D2	S5Ov r D-	qgMFS5CdF	S5Cdv I &	RCdTw
Lr so	20 71	0F-3	0F4J	0F2N	0F-	24F1J	DDe
Lr so	20N71	0F40	0F-3	0F2N	0F-6	1NF2	DDe
LdP%mb	671				3N		E
y sMOr wmb	2472	10F21	3F6N	6F12	NF6	2JF 1	DDe
y sOMsOr wr	JJ72	0F1	0F16	0F1	0F16	4F3N	DDe
y 5Pheor Omb	3471	1F06	0F J	0FN2	0FN	1NF46	DDe
y 5Pheor Omb	3J71	1F20	0F36	0F 1	0F36	2JFJ	DDe
y 5Pheor Omb	3671	0FN2	0F 6	0FN1	0F 3	4F26	DDe
y 5Pheor Omb	3 71	0F34	0F34	0FN0	0F30	NFN6	DDe
y 5Pheor Omb	3N71	0FN3	0F3	0F -	0FN	14F02	DDe
u r 5ohb omb	1J071						dDw
u r 5ohb omb	1J072						dDw
u dkr P	6072	0F01	0F0-	70F02	0F01	- 6FJ	DDe
8 %5wD%5pmw	- 172	74F21	711F4J	73F -	7NF46		DDe
8 5Tswwmb	- 372	34F-1	N6F-3	6F10	NJF60	10F6	DDe
v %5oomb	10-71				102		E
v %5oomb	10-72				101		E
I dsOomb	4J71				102		E
I dsOomb	4J72				100		E
I r P Omb	N271	70F-N	70F13	70FJ1	70F-6		DDe
I r P Omb	72	71F0J	0F01	71F0J	70F 0		DDe
I r P Omb	N72	0F12	0F4-	0F-N	0F-1	J2F 3	DDe
I dd5C	2N71	6F12	JFN0	4FN-	JFJN	12F04	DDe
I dgr p	10 71	0F04	0F0-	0F0-	0F0-	16FJJ	DDe
I dgr p	10371	0F04	0F01	0F0-	0F02	60F44	DDe
I 5oomb	2-72	143F34	14NF-0	12 F-1	141FNJ	NF30	DDe
I Tp5CTomb	N671	1F-J	1F22	0F30	1F16	20F06	DDe
I Tp5CTomb	NN71	1F1	1F0	0F3J	1F06	10F22	DDe
I mPmp	-471	72J1F-N	7N3FJ6	7-N0F01	7240F-2		DDe
Ar peomb	1J371				102		E
Ar peomb	1J372				101		E
A%sPmb	20-71	0F2J	0F2-	0F13	0F22	14F46	DDe
A%sPmb	20J71	0F26	0F2	0F22	0F2J	3F1	DDe
AdC	11N71	0F11	0F0J	0F0-	0F0	60F0J	DDe
AdsOomb	4 71	0F3-	0F66	0F4N	0F63	-2F 6	DDe
RpsOomb	2-N71	0F0J	0F04	0F02	0F04	-6F-1	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber p9	LB126466	n Dr psT5p9	aswl sP
Lse:I sb DP:t&:9	SSB023	tOwTpmb Or T:u sb r:9	8N
SPr CTI sb DP:t&:9	SSB023	&dPmT5C:UsdT5p9	1
&sTr:i :Adb r:qdOmpr o:9	202-70 714:149J69D3	&sTsUdP:u sb r:9	021SSB. Fo

8spsb r Tr p	y sww	S5Ovr D1	S5Ovr D2	S5Ovr D-	qgMF:S5OdF	S5Odv l &	ROdTw
VsOsoomb	J172	0F00	0F02	0F01	0F01	1-3F42	DDe
YTTr peomb	1 271						dDw
YTTr peomb	1 272						dDw
YTTr peomb	1 671						dDw
YTTr peomb	1 672						dDw
YTTpomb	N371				10-		E
YTTpomb	N372				100		E
ZdOd	6672	0F4	0F6J	0F61	0FJN	16F3-	DDe
Zqpd5Oomb	3071	0F04	0F0J	0F0J	0F0J	14FN2	DDe
Zqpd5Oomb	3171	0F0	0F0N	0F0J	0F0	16F3-	DDe

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.69	8.09	8.04	6.94	28.03	ppb
Antimony	121-1	0.05	0.04	0.06	0.05	17.89	ppb
Arsenic	75-2	0.03	0.01	0.03	0.02	38.99	ppb
Barium	135-1	0.01	0.02	0.04	0.02	56.99	ppb
Barium	137-1	0.01	0.01	0.04	0.02	72.22	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	9.93	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.09	0.08	0.07	60.87	ppb
Cadmium	106-1	-2.40	-1.43	-1.07	-1.63		ppb
Cadmium	111-1	-0.17	-0.10	-0.07	-0.11		ppb
Calcium	43-1	2.69	1.48	-0.02	1.38	98.28	ppb
Calcium	44-1	38.69	58.24	47.71	48.22	20.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.03	0.06	0.00		ppb
Cobalt	59-2	-0.01	0.01	0.02	0.01	363.87	ppb
Copper	63-2	0.37	0.47	0.42	0.42	11.28	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				100		%
Indium	115-1				103		%
Indium	115-2				98		%
Iron	54-2	10.16	10.98	10.98	10.71	4.45	ppb
Iron	56-2	4.87	8.70	11.55	8.37	40.03	ppb
Iron	57-2	2.07	12.19	9.04	7.77	66.68	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.05	0.07	21.16	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.13	0.08	0.10	21.41	ppb
Lead	208-1	0.08	0.10	0.07	0.08	17.58	ppb
Lithium	6-1				100		%
Magnesium	24-2	5.75	12.98	12.30	10.34	38.57	ppb
Manganese	55-2	0.09	0.14	0.14	0.12	24.55	ppb
Molybdenum	94-1	0.12	0.09	0.08	0.10	26.12	ppb
Molybdenum	95-1	0.10	0.09	0.10	0.10	8.38	ppb
Molybdenum	96-1	0.11	0.10	0.12	0.11	10.44	ppb
Molybdenum	97-1	0.12	0.13	0.14	0.13	8.26	ppb
Molybdenum	98-1	0.13	0.09	0.11	0.11	18.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	0.00	0.01	0.00		ppb
Phosphorus	31-2	-32.91	-14.46	3.52	-14.62		ppb
Potassium	39-2	71.86	71.83	71.24	71.64	0.49	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				101		%
Scandium	45-2				98		%
Selenium	82-1	0.10	0.15	-0.11	0.05	289.51	ppb
Selenium	77-2	-1.05	-1.05	-1.05	-1.05		ppb
Selenium	78-2	-0.25	0.35	0.21	0.10	308.35	ppb
Silicon	28-1	-1.04	5.54	2.84	2.45	135.17	ppb
Silver	107-1	0.03	0.02	0.02	0.02	33.41	ppb
Silver	109-1	0.01	0.02	0.01	0.02	30.54	ppb
Sodium	23-2	111.13	118.46	108.17	112.59	4.70	ppb
Strontium	86-1	0.14	0.01	0.19	0.11	84.21	ppb
Strontium	88-1	0.10	0.06	0.05	0.07	37.84	ppb
Sulfur	34-1	-478.13	807.73	316.96	215.52	301.09	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.11	0.13	0.09	0.11	15.86	ppb
Thallium	205-1	0.12	0.12	0.13	0.12	5.93	ppb
Tin	118-1	-0.01	0.02	0.06	0.02	130.09	ppb
Titanium	47-1	0.06	0.22	0.10	0.13	66.34	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	216.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	0.28	0.25	0.23	0.25	9.84	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	198.57	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	78.59	ppb

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJumb er pJa	LB126466	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	SB1043-7B	D5l &pmb 5r &uwb r Ja	SN
C8A5&J wb l 8 JD JaJ	LC 3-7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	232-:39:14J10a32a14	t w&WJA8 Juwb r Ja	32-LC . FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l -	cgMFCn5qF	Cn5qv t	R5A&
c 8mb A5Amb	29:2	- - F24	- 3F64	- 1F12	- 1F69	4F-6	l l e
c 5&b n5h	121:1	- F30	- F41	- F16	- F21	0F93	l l e
c pl r 5Aq	90:2	1F00	1F-7	1F00	1F03	6F1N	l l e
BwpAmb	1-0:1	10F1-	16F01	10F27	10F64	4FN3	l l e
BwpAmb	1-9:1	10F33	19F2N	16F32	16F13	9F37	l l e
Br ph8Amb	7:1	1F09	1F9-	1F00	1F62	6F21	l l e
BAb m8%	237:1				132		E
BAb m8%	237:2				133		E
Bpmb A5r	N1:1						ql l
CwOb Amb	13N:1	1F0-	1FN1	1F9-	1F67	NF4-	l l e
CwOb Amb	136:1	3F29	1FN1	3F44	3FN4	133F17	l l e
CwOb Amb	111:1	1F6-	1FN-	1F60	1F91	6F0-	l l e
Cw&qAmb	4-:1	9-7F79	N39F0-	966F4N	991F-	4F41	l l e
Cw&qAmb	44:1	962F33	N0-F67	974F90	N3-F4N	0F9N	l l e
Cwpen5	12:1						ql l
Cwpen5	12:2						ql l
C%&npA5r	-0:1						ql l
C%&npA5r	-0:2						ql l
C%pmb Amb	02:2	- F32	- F3-	- F3N	- F34	3F77	l l e
Cnew&&	07:2	1F00	1F0-	1F01	1F0-	1F20	l l e
CnI l r p	6-:2	- F42	- F-9	- F-4	- F-N	1F3N	l l e
t hl l pnl Amb	106:1						ql l
t hl l pnl Amb	106:2						ql l
. peAmb	164:1						ql l
. peAmb	164:2						ql l
GwOn8A5Amb	163:1						ql l
GwOn8A5Amb	163:2						ql l
Hn8b Amb	160:1				13-		E
Hn8b Amb	160:2				13-		E
D5OAmb	110:1				130		E
D5OAmb	110:2				132		E
Dpn5	04:2	- - 0F12	- 29F6N	- 2NF29	- - 3F-6	1F20	l l e
Dpn5	06:2	- 26F-9	- 19F64	- 1NF3-	- 23F6N	1F04	l l e
Dpn5	09:2	- 19F37	- 23F62	- 2-F-4	- 23F-0	3F7N	l l e
Kphl &a5	N-:1						ql l
LrwO	236:1	1F42	1F60	1F0-	1F0-	9F44	l l e

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Inst Id :P8

LBJumb er pJa	LB126466	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	SB1043-7B	D5l &amb 5r &uwb r Ja	SN
C8A5&J wb l 8 JD JaJ	LC 3-7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	232-:39:14J10a32a14	t w&WJA8 Juwb r Ja	32-LC . FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l -	cgMFCn5qF	Cn5qv t	R5A&
Lr wO	239:1	1F62	1F06	1F67	1F62	-F77	l l e
Lr wO	23N:1	1F47	1F62	1F09	1F06	4F36	l l e
LA&%Amb	6:1				133		E
y wW5r l Amb	24:2	N1NF14	N36F17	972F24	N30F02	1F61	l l e
y w5Mw5r l r	00:2	1F60	1F07	1F00	1F07	-F10	l l e
y n8neOr 5mb	74:1	7F3-	7F03	7F4N	7F-4	2FN4	l l e
y n8neOr 5mb	70:1	9F20	NF31	NF32	9F96	0F92	l l e
y n8neOr 5mb	76:1	9F91	NF--	NF36	NF3-	-F73	l l e
y n8neOr 5mb	79:1	9F63	NF04	9F67	9F74	6F01	l l e
y n8neOr 5mb	7N:1	9F4-	NF40	9FN2	9F73	6F47	l l e
u r nOhb Amb	103:1						qll
u r nOhb Amb	103:2						qll
u Aqkr 8	63:2	1F09	1F6-	1F61	1F63	2F39	l l e
S%nl l %npm	-1:2	:10F14	1F7N	:-9F01	:16FN7		l l e
Sn&wl l Amb	-7:2	N42F3N	N-7F04	N14F77	N-2F23	1FN3	l l e
v %nOAmb	13-:1				132		E
v %nOAmb	13-:2				132		E
qw5OAmb	40:1				132		E
qw5OAmb	40:2				133		E
r 8 5Amb	N2:1	9F96	NF2N	9FN0	9F76	-F40	l l e
r 8 5Amb	99:2	11F40	7F-3	9F16	7F-3	2-F36	l l e
r 8 5Amb	9N:2	13F-N	9F4N	9F99	NF04	1NF93	l l e
A&qn5	2N:1	10F69	22F06	19F00	1NF07	17F16	l l e
A&gr p	139:1	1F01	1F69	1F6-	1F63	0F13	l l e
A&gr p	137:1	1F06	1FN-	1F0N	1F66	7F19	l l e
nOAmb	2-:2	N73FNN	N97F-7	N96F34	NN2F13	3FNN	l l e
&n5&Amb	N6:1	2F12	1FN4	1FN-	1F7-	NF00	l l e
&n5&Amb	NN:1	1F7-	1F70	1F99	1FNN	0F17	l l e
m6mp	-4:1	:219F1N	677FN-	140F7N	237F00	223F-N	l l e
i r peAmb	107:1				13-		E
i r peAmb	107:2				131		E
i %w8Amb	23-:1	1F02	1F93	1F04	1F0N	6F12	l l e
i %w8Amb	230:1	1F40	1F64	1F6-	1F09	6F70	l l e
i A5	11N:1	3F31	3F30	3F31	3F32	N4F49	l l e
i A&w5Amb	49:1	NF49	7F0N	NF33	NF6N	7F-4	l l e
Rpw5Amb	2-N:1	1F43	1F02	1F02	1F4N	4F04	l l e

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJumb erpJa	LB126466	o l r pw8apJa	swl Pw8
LweJ wb l 8 JD JaJ	SB1043-7B	D5l &mb 5r &u wb r Ja	SN
C8A5&J wb l 8 JD JaJ	LC 3-7	t A8m8A5JJwq8apJa	1
t w&JTJ Ab r Jc qdmAr QJa	232-:39:14J10a32a14	t w&WJA8 Ju wb r Ja	32-LC . FO

Swpwb r &p	y wl l	Cn5v r l 1	Cn5v r l 2	Cn5v r l -	cgMFCn5qF	Cn5qv t	R5A&
Vw5wOAmb	01:2	9F67	9FN9	9F02	9F67	2F20	l l e
Y8&pe Amb	192:1						ql l
Y8&pe Amb	192:2						ql l
Y8&pe Amb	196:1						ql l
Y8&pe Amb	196:2						ql l
Y8&pAmb	N7:1				130		E
Y8&pAmb	N7:2				131		E
ZA5q	66:2	9F=0	9F70	9F9N	9F67	-F7N	l l e
ZAqn5Amb	73:1	1F4N	1F6N	1F63	1F07	6F20	l l e
ZAqn5Amb	71:1	1F4N	1F09	1F0N	1F04	-F96	l l e

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-71	Dw&umne&Nsme:9	8J
RFen&psmI Re:D :9	My 7. h6	t AR&on:. sq&or:9	1
t s&:T:i Ane:cqduAeO:9	2720-7 -14:139739 1J	t s&s. Ae:Nsme:9	724c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
cRmAAum	2 -2	0hF2h	0 FhJ	0 F66	0JF01	2F23	I I b
cn&mon%	121-1	7F1	7F1J	7F16	7F1	6FJ0	I I b
crwenAq	3-2	7F16	7F22	7F1J	7F1h	13F77	I I b
BsrAum	103-1	26F2J	26F04	2 F66	26F 6	2Fh2	I I b
BsrAum	10 -1	2 F17	2 F4	2JF37	2 F6h	2F62	I I b
Ber%BAum	h-1	7F7h	7F17	7F17	7F17	4F47	I I b
BAumu&E	27h-1				171		G
BAumu&E	27h-2				h		G
BromAne	J1-1						ql w
RsOmAum	17J-1	7F7J	7F7J	7F7J	7F7J	0F11	I I b
RsOmAum	176-1	7F13	-2F70	7F2J	-7F30		I I b
RsOmAum	111-1	7F70	-7F14	7F74	-7F72		I I b
RsRqAum	40-1	14422F71	137J3F6J	14413F17	14647Fh0	2F60	I I b
RsRqAum	44-1	13126Fh4	131J4Fh7	1310hFh0	13137F3h	7F27	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	03-1						ql w
REFrAne	03-2						ql w
REromAum	32-2	4F11	4F1	4F26	4F1J	1FJ7	I I b
RobsR&	3h-2	7F20	7F21	7F24	7F20	3F2h	I I b
RoI I er	60-2	7FJ6	7FJ6	7FJJ	7FJ	1F13	I I b
t %wI rowAum	136-1						ql w
t %wI rowAum	136-2						ql w
CrbAum	164-1						ql w
CrbAum	164-2						ql w
HsOoFhAum	167-1						ql w
HsOoFhAum	167-2						ql w
y oFmAum	163-1				171		G
y oFmAum	163-2				177		G
DrOAum	113-1				170		G
DrOAum	113-2				hJ		G
Don	34-2	031F61	040F26	04 F03	04 F41	1F27	I I b
Don	36-2	044F7J	043F27	002FJ3	047F 1	2F71	I I b
Don	3 -2	0 1F40	046FJ4	060F12	067F46	0F4	I I b
Kr%&on	J0-1						ql w
LesO	276-1	7F00	7F0J	7F0J	7F06	Fh3	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-71	Dw&umne&Nsme:9	8J
RAen&psmI Re:D :9	My 7. h6	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139739 1J	t s&s. Ae:Nsme:9	724c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
LesO	27 -1	7F06	7F47	7F00	7F06	hFh3	I I b
LesO	27J-1	7F00	7F0h	7F0	7F0	JF23	I I b
LAEAum	6-1				hh		G
MsgnewAum	24-2	2h20F3	2h66F10	2Jh F4J	2h2hF76	1F1J	I I b
Msngsnewe	33-2	11Fh1	11F47	11F40	11F3J	2F43	I I b
MoP%bOenum	h4-1	1F2	1F04	1F0J	1F00	4F76	I I b
MoP%bOenum	h3-1	1F06	1F00	1F2J	1F00	2Fh2	I I b
MoP%bOenum	h6-1	1F26	1F23	1F24	1F23	7F31	I I b
MoP%bOenum	h -1	1F42	1F03	1F47	1F0h	2F0	I I b
MoP%bOenum	hJ-1	1F06	1F0J	1F04	1F06	1F33	I I b
NeoO%mAum	137-1						ql w
NeoO%mAum	137-2						ql w
NAqkeP	67-2	1F67	1F66	1F 1	1F66	0F27	I I b
8EowI Eoruw	01-2	24F6h	-1F44	-2Fh3	6F	22hF6J	I I b
8o&swwAum	0h-2	1 34F72	1 21F37	16hhF14	1 24FJh	1F67	I I b
5EoOAum	170-1				171		G
5EoOAum	170-2				hh		G
pqsnOAum	43-1				171		G
pqsnOAum	43-2				h6		G
peRenAum	J2-1	-7F11	-7F14	7F41	7F76	334F 0	I I b
peRenAum	-2	-1F73	-1F73	-1F73	-1F73		I I b
peRenAum	J-2	-7F04	7F04	7Fh4	7F02	271Fh6	I I b
pARqon	2J-1	02h0Fh1	046JF20	02 hF73	004 F76	0F14	I I b
pARer	17 -1	7F71	-7F71	7F77	7F77		I I b
pARer	17h-1	7F77	7F77	-7F71	7F77		I I b
poOAum	20-2	17J44F 1	17h60FJh	17Jh2Fh4	17h77F31	7F33	I I b
p&ona&Aum	J6-1	6JF 6	7F41	1Fh	7F0J	2F2J	I I b
p&ona&Aum	JJ-1	6hF7	1F7	1F26	7F4	1F 2	I I b
pulPur	04-1	416JF04	4213F2J	0432F46	0h43F06	17FJ4	I I b
i erbAum	13h-1				171		G
i erbAum	13h-2				177		G
i EsRAum	270-1	7F7	7F73	7F7	7F76	10FJ	I I b
i EsRAum	273-1	7F7J	7F76	7F76	7F7	13F13	I I b
i An	11J-1	7F06	7F00	7F0	7F03	3F46	I I b
i A&snAum	4 -1	1F71	7Fh4	7Fh7	7Fh3	3F 0	I I b
UrsnAum	20J-1	7Fh4	7Fh3	1F77	7Fh6	0F2	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-71	Dw&umne&Nsme:9	8 J
RFen&psml Re:D :9	My 7. h6	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO.9	2720-7 -14:139739 1J	t s&s. Ae:Nsme:9	724c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	UnA&w
VsnsOAum	31-2	7F46	7F37	7F0	7F44	14F24	I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	Jh-1				171		G
Y&&Aum	Jh-2				hJ		G
ZAnq	66-2	1 F3h	16Fhh	16F2	16Fh3	0FJJ	I I b
ZAqonAum	h7-1	7F7J	7F17	7F16	7F12	0 F31	I I b
ZAqonAum	h1-1	7F17	7F11	7F1h	7F10	03F10	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-72	Dw&umne&Nsme:9	8J
RFen&psmI Re:D :9	My 7. h	t A&on:.. sq&or:9	1
t s&:T:i Ane:cqduAeO:9	2720-7 -14:139 7J916	t s&s. Ae:Nsme:9	723c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
cRmAAum	2 -2	43F46	46F03	4 F76	46F2h	1F 4	I I b
cn&mon%	121-1	7F10	7F10	7F11	7F12	hF10	I I b
crwenAq	3-2	7F04	7F41	7F37	7F42	27F02	I I b
BsrAum	103-1	43F36	46FJ0	43F h	46F76	1F4	I I b
BsrAum	10 -1	4JF6J	4 FJh	46F6	4 F 3	2F12	I I b
Ber%BAum	h-1	7F12	7F13	7F12	7F10	17F7	I I b
BAumu&E	27h-1				177		G
BAumu&E	27h-2				177		G
BromAne	J1-1						ql w
RsOmAum	17J-1	7F44	7F07	7F20	7F02	00F46	I I b
RsOmAum	176-1	-2F71	-7FJJ	-1F11	-1F00		I I b
RsOmAum	111-1	-7F13	-7F73	-7F76	-7F7J		I I b
RsRqAum	40-1	2hh 7FJJ	2h40 FJJ	2hh12Fh4	2h 0Fh7	7FhJ	I I b
RsRqAum	44-1	0127hF0J	07230Fh3	076JhF20	07 1 F32	1F36	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REPrAne	03-1						ql w
REPrAne	03-2						ql w
REromAum	32-2	1FJh	1Fh2	1F 6	1FJ6	4F43	I I b
RobsR&	3h-2	7F30	7F33	7F36	7F33	0F1	I I b
RoI I er	60-2	7FJh	7Fh6	1F76	7Fh	JF43	I I b
t %wI rowAum	136-1						ql w
t %wI rowAum	136-2						ql w
CrbAum	164-1						ql w
CrbAum	164-2						ql w
HsOoPhAum	167-1						ql w
HsOoPhAum	167-2						ql w
y oPmAum	163-1				174		G
y oPmAum	163-2				171		G
DnOAum	113-1				170		G
DnOAum	113-2				171		G
Don	34-2	J36F20	h76F30	JJ3F14	JJ2F60	2FJ6	I I b
Don	36-2	J37F23	J61F47	J66F76	J3hF24	7Fh3	I I b
Don	3 -2	JJ4F h	JJhF12	h11F02	Jh3F7J	1F3h	I I b
Kr%&on	J0-1						ql w
LesO	276-1	7F2	7F2J	7F01	7F2h	F12	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-72	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My 7. h	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139 7J9 16	t s&s. Ae:Nsme:9	723c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	UnA&w
LesO	27 -1	7F26	7F07	7F00	7F2h	11F02	I I b
LesO	27J-1	7F2h	7F2h	7F2h	7F2h	7F h	I I b
LAEAum	6-1				hh		G
MsgnewAum	24-2	1 3FJ4	4 7F7h	230FJ1	2hhFh1	2F7h	I I b
Msngsnewe	33-2	3JF04	67F6h	67F33	3hFJ6	2F27	I I b
MoP%bOenum	h4-1	3F66	3F4h	3F6h	3F61	1Fh1	I I b
MoP%bOenum	h3-1	6F63	6F37	6F40	6F30	1F 2	I I b
MoP%bOenum	h6-1	6F3h	3FhJ	6F6	6F41	3Fh7	I I b
MoP%bOenum	h -1	6F62	6F	6F J	6F 2	1F2	I I b
MoP%bOenum	hJ-1	6F 6	6F4	6F67	6F61	2F1h	I I b
NeoO%mAum	137-1						ql w
NeoO%mAum	137-2						ql w
NAqkeP	67-2	7Fh7	7FJ2	7FJh	7FJ	4F62	I I b
8EowI Eoruw	01-2	-1FJ7	1JF26	-14F34	7F64	23 JFh1	I I b
8o&swwAum	0h-2	2J16F73	2J4 F33	2J 2F67	2J43F47	1F77	I I b
5EoOAum	170-1				172		G
5EoOAum	170-2				171		G
pqsnOAum	43-1				172		G
pqsnOAum	43-2				hh		G
pefenAum	J2-1	7F44	7F32	7F J	7F3J	07F31	I I b
pefenAum	-2	1F77	-1F73	-1F73	-7F0		I I b
pefenAum	J-2	7F 6	7F00	7FJh	7F66	44F30	I I b
pAqon	2J-1	32h1F02	327 F47	32h F24	3263F02	7Fh3	I I b
pAer	17 -1	7F77	7F77	7F71	7F77	6JF43	I I b
pAer	17h-1	7F77	7F77	7F71	7F77	221F	I I b
poOAum	20-2	270J4FJh	27J62FJ1	27 h3F0h	276J1F70	1F23	I I b
p&ona&Aum	J6-1	1 2F23	1 4F12	16 F10	1 1F16	2F11	I I b
p&ona&Aum	JJ-1	1J2F1	1 6F32	1 hF67	1 hF40	1F3J	I I b
pufur	04-1	142 1FJ6	1023hFh7	1046 F6J	10666F4J	0Fh1	I I b
i erbAum	13h-1				170		G
i erbAum	13h-2				172		G
i EsPAum	270-1	7F70	7F70	7F73	7F74	22F24	I I b
i EsPAum	273-1	7F73	7F76	7F74	7F73	1 F0h	I I b
i An	11J-1	7F0h	7F02	7F0	7F06	17F3J	I I b
i A&snAum	4 -1	1F71	7FhJ	1F27	1F76	11F4	I I b
UrsnAum	20J-1	2F7	1FhJ	2F76	2F74	2F40	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-72	Dw&umne&Nsme:9	8J
RFen&psml Re:D :9	My 7. h	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO:9	2720-7 -14:139 7J9 16	t s&s. Ae:Nsme:9	723c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	UnA&w
VsnsOAum	31-2	7F0h	7F0	7F02	7F06	hF04	I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	Jh-1				176		G
Y&&Aum	Jh-2				177		G
ZAnq	66-2	42F2h	40F00	42F06	42F66	1F06	I I b
ZAqonAum	h7-1	7F7J	7F10	7F14	7F12	2 F33	I I b
ZAqonAum	h1-1	7F7J	7F7h	7F10	7F17	23F01	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psmI Re:D :9	S0324-70	Dw&umne&Nsme:9	8J
RFen&psmI Re:D :9	My 7. h t	t AR&on:. sq&or:9	1
t s&e:T:i Ane:cqduAeO:9	2720-7 -14:139119IJ	t s&s. Ae:Nsme:9	726c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	Un&w
cRmAAum	2 -2	43F7h	44F00	4 F6h	43F 7	0FJ6	I I b
cn&mon%	121-1	7F12	7F10	7F12	7F12	4F42	I I b
crwenAq	3-2	7F46	7F42	7F37	7F46	JFJ0	I I b
BsrAum	103-1	4 F33	4JF60	4JF43	4JF21	1F27	I I b
BsrAum	10 -1	4hF21	4hF4h	4JF 2	4hF14	7F h	I I b
Ber%BAum	h-1	7F16	7F14	7F16	7F13	3F20	I I b
BAumu&E	27h-1				hJ		G
BAumu&E	27h-2				h6		G
BromAne	J1-1						ql w
RsOmAum	17J-1	7F23	7F36	7F47	7F47	0hF21	I I b
RsOmAum	176-1	-2F40	-7F14	-1F3	-1F0J		I I b
RsOmAum	111-1	-7F14	7F70	-7F7J	-7F76		I I b
RsRqAum	40-1	012h6F44	07J0hF3	073J7Fh7	07h73F64	1F1	I I b
RsRqAum	44-1	017J0Fh2	01406FJ2	01234F6h	0123JF4J	7F36	I I b
Rsrbon	12-1						ql w
Rsrbon	12-2						ql w
REFrAne	03-1						ql w
REFrAne	03-2						ql w
REromAum	32-2	1F 6	1Fh1	1F h	1FJ2	4F42	I I b
RobsR&	3h-2	7F33	7F3h	7F32	7F33	6F03	I I b
RoI I er	60-2	7FJh	7FJ3	7Fh2	7FJh	4F2J	I I b
t %wI rowAum	136-1						ql w
t %wI rowAum	136-2						ql w
CrbAum	164-1						ql w
CrbAum	164-2						ql w
HsOoFhAum	167-1						ql w
HsOoFhAum	167-2						ql w
y oFmAum	163-1				171		G
y oFmAum	163-2				hh		G
DrOAum	113-1				174		G
DrOAum	113-2				h		G
Don	34-2	J34F3	J32F17	J02F12	J46F26	1F46	I I b
Don	36-2	J01F17	J01F16	J01F77	J01F7J	7F71	I I b
Don	3 -2	J36FJJ	J6 F6J	J44F67	J36F0h	1F03	I I b
Kr%&on	J0-1						ql w
LesO	276-1	7F26	7F2J	7F2J	7F2	0F 1	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-70	Dw&umne&Nsme:9	8 J
RAen&psml Re:D :9	My 7. h t	t AR&on:. sq&or:9	1
t s&e:T:i Ame:cqduAeO:9	2720-7 -14:139119 J	t s&s. Ae:Nsme:9	726c 5 C. FO

8srsme&er	Msww	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF:RonqF	Ronq5 pt	Un&w
LesO	27 -1	7F2	7F07	7F2	7F2J	3F64	I I b
LesO	27J-1	7F26	7F2	7F2	7F2	1F60	I I b
LAEAum	6-1				hJ		G
MsgnewAum	24-2	47 F2J	037F6h	431F17	470F72	7F6J	I I b
Msngsnewe	33-2	67Fh3	61Fh4	61F1	61F06	7FJ3	I I b
MoP%bOenum	h4-1	3F03	3FJ0	3Fh3	3F 1	3F3h	I I b
MoP%bOenum	h3-1	6F60	6F 2	6F67	6F63	7Fh4	I I b
MoP%bOenum	h6-1	6F 7	6F32	6F	6F66	1Fh2	I I b
MoP%bOenum	h -1	6FJ	6FJJ	F16	6Fh	2F00	I I b
MoP%bOenum	hJ-1	6Fh3	6Fh6	6FJ2	6Fh1	1F14	I I b
NeoO%mAum	137-1						ql w
NeoO%mAum	137-2						ql w
NAqkeP	67-2	7F	7Fh1	7Fh0	7FJ	17F20	I I b
8EowI Eoruw	01-2	-21F22	-6F6J	-14F0J	-14F7h		I I b
8o&swwAum	0h-2	2h44F66	2h27F70	2h73F23	2h20F02	7F6J	I I b
5EoOAum	170-1				hJ		G
5EoOAum	170-2				h		G
pqsnOAum	43-1				177		G
pqsnOAum	43-2				h		G
pe?enAum	J2-1	7FJ6	7F31	7F32	7F60	01F40	I I b
pe?enAum	-2	7F72	7F70	-1F73	-7F04		I I b
pe?enAum	J-2	7F 4	1F76	7Fh3	7Fh2	1 F0	I I b
pAqon	2J-1	340 F27	34 2F1	3066F2	3423F21	7Fhh	I I b
pAer	17 -1	7F77	7F77	7F71	7F77	J3F3J	I I b
pAer	17h-1	7F77	7F77	7F77	7F77		I I b
poOAum	20-2	27h44F7h	27J26FJ7	211 2F23	27hJ1F73	7FJ4	I I b
p&on&Aum	J6-1	1 6F h	1 hF 7	1 hF2h	1 JF3h	7FJJ	I I b
p&on&Aum	JJ-1	1J4F4	1h7F13	1J6F6	1J F17	1F30	I I b
pu?ur	04-1	146 4Fh6	141 0F1h	10J12F70	14227F76	0F73	I I b
i erbAum	13h-1				171		G
i erbAum	13h-2				hh		G
i EsPAum	270-1	7F74	7F74	7F73	7F74	17F6	I I b
i EsPAum	273-1	7F70	7F73	7F70	7F74	2 F0J	I I b
i An	11J-1	7F07	7F07	7F04	7F01	F44	I I b
i A&snAum	4 -1	1F17	1F74	7F 3	7Fh6	1hF1J	I I b
UrsnAum	20J-1	2F7J	2F76	2F7	2F7	7F44	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI ers&or:9	aswl sP
Lsb:psml Re:D :9	S0324-70	Dw&umne&Nsme:9	8J
RFen&psml Re:D :9	My 7. h t	t Ro&on:. sq&or:9	1
t s&e:T:i Ane:c qduAeO:9	2720-7 -14:139119IJ	t s&s. Ae:Nsme:9	726c5C. FO

8srsme&er	Msww	Ron5el 1	Ron5el 2	Ron5el 0	cvgF:RonqF	Ronq5pt	UnA&w
VsnsOAum	31-2	7F03	7F07	7F40	7F06	1JF00	I I b
Y&erbAum	1 2-1						ql w
Y&erbAum	1 2-2						ql w
Y&erbAum	1 6-1						ql w
Y&erbAum	1 6-2						ql w
Y&&Aum	Jh-1				171		G
Y&&Aum	Jh-2				hJ		G
ZAnq	66-2	42F7J	42F1J	41F64	41Ffh	7F6J	I I b
ZAqonAum	h7-1	7F7h	7F7h	7F17	7F7h	4F 3	I I b
ZAqonAum	h1-1	7F74	7F17	7F11	7F7J	46F 7	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.39	15.85	14.49	15.58	6.27	ppb
Antimony	121-1	0.06	0.07	0.06	0.06	8.54	ppb
Arsenic	75-2	0.11	0.04	0.11	0.09	46.02	ppb
Barium	135-1	9.65	10.47	9.30	9.81	6.11	ppb
Barium	137-1	9.22	10.45	10.18	9.95	6.50	ppb
Beryllium	9-1	0.07	0.08	0.06	0.07	8.31	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.41	0.31	0.29	46.70	ppb
Cadmium	106-1	-1.05	-2.03	-2.52	-1.87		ppb
Cadmium	111-1	-0.01	-0.13	-0.17	-0.10		ppb
Calcium	43-1	5858.17	6419.41	5940.89	6072.82	4.99	ppb
Calcium	44-1	6189.23	6677.72	6426.48	6431.14	3.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.30	0.39	0.36	13.25	ppb
Cobalt	59-2	0.13	0.12	0.11	0.12	8.96	ppb
Copper	63-2	0.43	0.49	0.40	0.44	10.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				101		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	54-2	181.17	183.91	174.42	179.84	2.72	ppb
Iron	56-2	180.12	176.73	175.05	177.30	1.46	ppb
Iron	57-2	178.50	185.35	190.74	184.86	3.32	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.21	0.17	0.18	13.22	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.17	0.21	0.18	0.19	10.26	ppb
Lead	208-1	0.18	0.20	0.18	0.19	6.24	ppb
Lithium	6-1				99		%
Magnesium	24-2	1498.49	1535.96	1474.13	1502.86	2.07	ppb
Manganese	55-2	12.39	12.41	12.00	12.27	1.91	ppb
Molybdenum	94-1	1.48	1.71	1.44	1.54	9.39	ppb
Molybdenum	95-1	1.66	1.95	1.76	1.79	8.14	ppb
Molybdenum	96-1	1.68	1.73	1.64	1.68	2.52	ppb
Molybdenum	97-1	1.75	1.90	1.64	1.76	7.58	ppb
Molybdenum	98-1	1.69	1.91	1.65	1.75	8.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.15	0.22	0.22	0.20	19.18	ppb
Phosphorus	31-2	-44.37	-25.48	-26.56	-32.14		ppb
Potassium	39-2	610.52	641.46	623.02	625.00	2.49	ppb
Rhodium	103-1				105		%
Rhodium	103-2				102		%
Scandium	45-1				103		%
Scandium	45-2				99		%
Selenium	82-1	0.40	-0.14	0.19	0.15	177.52	ppb
Selenium	77-2	-0.01	-1.05	1.04	-0.01		ppb
Selenium	78-2	0.12	0.82	0.69	0.54	68.98	ppb
Silicon	28-1	1033.91	1106.68	1031.44	1057.34	4.04	ppb
Silver	107-1	0.00	0.00	0.01	0.01	61.79	ppb
Silver	109-1	0.01	0.00	0.00	0.00	290.60	ppb
Sodium	23-2	4197.64	4245.81	4180.79	4208.08	0.80	ppb
Strontium	86-1	34.58	36.83	36.53	35.98	3.39	ppb
Strontium	88-1	34.63	38.07	36.56	36.42	4.73	ppb
Sulfur	34-1	1912.34	2932.00	1770.97	2205.10	28.73	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.03	0.04	0.03	0.03	15.00	ppb
Thallium	205-1	0.06	0.05	0.04	0.05	13.23	ppb
Tin	118-1	0.19	0.17	0.17	0.18	4.57	ppb
Titanium	47-1	0.79	0.64	0.57	0.67	16.89	ppb
Uranium	238-1	0.39	0.45	0.42	0.42	6.45	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.10	0.12	0.08	0.10	16.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				100		%
Zinc	66-2	9.25	9.39	9.42	9.36	0.94	ppb
Zirconium	90-1	0.04	0.03	0.04	0.04	17.32	ppb
Zirconium	91-1	0.01	0.02	0.03	0.02	30.33	ppb

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-74	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. h p	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2720-7 -14:1391 9.21	t a&a. Ae:Name:9	728c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 p t	UnA&s
c lumAnAum	2 -2	2280F32	22 7Fh8	2017F76	2288F1h	7F8	I I b
c n&Amon%	121-1	171Fh3	174F1h	171F48	172F34	1F41	I I b
c rsenAq	3-2	42F73	47Fhh	47F10	41F76	2F03	I I b
BarAum	103-1	2026F66	2423F 8	2063F32	20 2F63	2F11	I I b
BarAum	10 -1	204 Fh0	2003F8h	2036F88	2046Fh7	7F43	I I b
Ber%lAum	h-1	36F21	34F 0	33F78	33F04	1F41	I I b
BAsmu&E	27h-1				h		G
BAsmu&E	27h-2				h		G
BromAne	81-1						ql s
RaOmAum	178-1	40F27	43F41	43F20	44F61	2F 3	I I b
RaOmAum	176-1	47F14	0hF11	40F 0	47Fhh	3Fh2	I I b
RaOmAum	111-1	32F34	31F82	30F4h	32F62	1F67	I I b
RalqAum	40-1	2h 2F72	2hh07F42	072h2Fhh	2hhh8F48	7F8h	I I b
RalqAum	44-1	07434F2	07 8F01	0147 F88	07887F13	1F3	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
REIorAne	03-1						ql s
REIorAne	03-2						ql s
REromAum	32-2	213F 4	214F2	21hF42	216F48	1F20	I I b
Robal&	3h-2	386F31	3h2F20	3h0F60	3h7F h	7F64	I I b
RoI I er	60-2	266F21	2 7F 8	26hF30	268F84	7F88	I I b
t %sI rosAum	136-1						ql s
t %sI rosAum	136-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
y olmAum	163-1				h8		G
y olmAum	163-2				177		G
DnOAum	113-1				171		G
DnOAum	113-2				h		G
Don	34-2	1 03F67	1 62F3h	1 2hF84	1 42F68	1F77	I I b
Don	36-2	1612F84	161hF01	1602F24	1621F46	7F61	I I b
Don	3 -2	1368F38	13h1F 8	1380F71	1381F12	7F 4	I I b
Kr%l &on	80-1						ql s
LeaO	276-1	1hF7	18Fh	1hF00	1hF12	7Fh	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-74	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. h p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:1391 9 21	t a&a. Ae:Name:9	728c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	27 -1	1hF67	1hF 2	1hF40	1hF38	7F 4	I I b
LeaO	278-1	1hF20	1hF44	1hF41	1hF06	7F61	I I b
LA&EAum	6-1				h8		G
MagnesAum	24-2	208F14	083F72	046F3	020F24	1F74	I I b
Manganese	33-2	381F86	388F81	3h3F22	388F60	1F14	I I b
Mol%bOenum	h4-1	3Fh3	3Fh4	6F74	3Fh8	7Fh0	I I b
Mol%bOenum	h3-1	6F08	6F6	6F32	6F30	2F20	I I b
Mol%bOenum	h6-1	6F61	6F84	6F44	6F60	0F78	I I b
Mol%bOenum	h -1	F2	6F 0	6F31	6F84	3F 3	I I b
Mol%bOenum	h8-1	6F36	6F 0	6F 3	6F68	1F3	I I b
NeoO%mAum	137-1						ql s
NeoO%mAum	137-2						ql s
NAqkel	67-2	36 F30	3 1F46	387F30	3 0F1	1F16	I I b
PEosI Eorus	01-2	-2hF1h	-0F00	04F3	7F68	4 76F1	I I b
Po&assAum	0h-2	288 F7	2h17Fh6	2h33F2	2h1 F	1F1h	I I b
5 EoOAum	170-1				h8		G
5 EoOAum	170-2				hh		G
pqanOAum	43-1				171		G
pqanOAum	43-2				h8		G
pelenAum	82-1	170F40	171F26	h8F 0	171F14	2F00	I I b
pelenAum	-2	178F13	8 F1h	68Fh7	88F78	22F07	I I b
pelenAum	8-2	17hF41	170F71	177F 3	174F0h	4F07	I I b
pAAqon	28-1	3012F30	3004F81	306hF7	3008F87	7F30	I I b
pAver	17 -1	44F3h	43F73	44F48	44F 1	7F6	I I b
pAver	17h-1	44F 2	43F47	43F14	43F7h	7F 6	I I b
poOAum	20-2	27380F12	27 3Fh1	27334Fh7	2760 Fh8	7F38	I I b
p&ona&Aum	86-1	1 F12	1 F 8	1 4F08	1 6F40	1F72	I I b
p&ona&Aum	88-1	181F1	183F60	187F88	182F36	1F46	I I b
pulfur	04-1	104h0F43	10306F06	103 8Fh1	10306F24	7F02	I I b
i erbAum	13h-1				171		G
i erbAum	13h-2				hh		G
i EallAum	270-1	48F77	4hF1	48F10	48F40	1F02	I I b
i EallAum	273-1	48F08	4hF11	4hF62	4hF70	1F2	I I b
i An	118-1	7F01	7F0h	7F40	7F08	13F1h	I I b
i A&anAum	4 -1	1F41	1F41	1F 1	1F31	11F42	I I b
UranAum	208-1	2F17	2F78	2F72	2F7	1Fh7	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-74	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. h p	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139I 9:21	t a&a. Ae:Name:9	728c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	31-2	338F31	334F24	368F76	367F2	1F26	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8h-1				172		G
Y&&Aum	8h-2				hh		G
ZAnq	66-2	384F13	3h4F 0	3h1F26	3h7F73	7Fh1	I I b
ZAqonAum	h7-1	7F78	7F10	7F78	7F17	2 F28	I I b
ZAqonAum	h1-1	7F7	7F11	7F14	7F11	07F47	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0324-73	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h7F58	t Au&on:Faq&or:9	1
t a&:T:i Ame:cqduAeO.9	2720-7 -14:139279I	t a&aFAe:Name:9	725cC. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	cgM:v onqU	v onqCpt	RnA&s
clumAnAum	2 -2	46U50	45U83	36U71	37U50	5U17	I I b
cn&Amon%	121-1	7U14	7U16	7U18	7U16	12U52	I I b
crsenAq	3-2	7U37	7U4	7U38	7U32	11U44	I I b
BarAum	103-1	46U4	4 U81	46U87	4 U12	1U28	I I b
BarAum	10 -1	48U24	48U45	48U06	48U06	7U23	I I b
Ber%IAum	5-1	7U14	7U10	7U16	7U13	17U07	I I b
BAsmu&E	275-1				5		G
BAsmu&E	275-2				5		G
BromAne	81-1						ql s
v aOmAum	178-1	7U01	7U16	7U41	7U07	42U63	I I b
v aOmAum	176-1	-0U77	-1U4	-1U01	-2U72		I I b
v aOmAum	111-1	-7U15	-7U75	-7U7	-7U12		I I b
v alqAum	40-1	07016U00	255 3U48	25637U40	25587U3	1U11	I I b
v alqAum	44-1	07 25U6	07005U32	0708 U6	07483U63	7U7	I I b
v arbon	12-1						ql s
v arbon	12-2						ql s
v ElorAne	03-1						ql s
v ElorAne	03-2						ql s
v EromAum	32-2	2U04	2U47	2U44	2U05	2U77	I I b
v obal&	35-2	7U4	7U68	7U2	7U1	4U76	I I b
v ol I er	60-2	7U57	1U77	1U28	1U76	18U32	I I b
t %sI rosAum	136-1						ql s
t %sI rosAum	136-2						ql s
. rbAum	164-1						ql s
. rbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
h olmAum	163-1				171		G
h olmAum	163-2				55		G
DnOAum	113-1				171		G
DnOAum	113-2				5		G
Don	34-2	132U53	167U8	165U62	161U13	3U1	I I b
Don	36-2	144U67	137U7	161U4	132U03	3U7	I I b
Don	3 -2	153U16	18 U3	155U6	154U16	0U1	I I b
Kr%I &on	80-1						ql s
LeaO	276-1	7U48	7U43	7U43	7U46	4U37	I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-73	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h7F58	t Au&on:Faq&or:9	1
t a&:T:i Ame:c qduAeO:9	2720-7 -14:139279I	t a&aFAe:Name:9	725c C. FUO

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gM:v onqU	v onqCpt	RnA&s
LeaO	27 -1	7U46	7U42	7U42	7U40	3U83	I I b
LeaO	278-1	7U43	7U44	7U44	7U43	1U00	I I b
LA&EAum	6-1				58		G
y aMhesAum	24-2	104U01	150U87	103U1	134U42	7U48	I I b
y anManese	33-2	38U10	38U8	35U75	38U6	7U84	I I b
y ol%bOenum	54-1	3U66	3U84	6U13	3U88	4U24	I I b
y ol%bOenum	53-1	6U45	6U36	6U37	6U32	7U38	I I b
y ol%bOenum	56-1	6U81	6U87	6U5	6U87	7U11	I I b
y ol%bOenum	5 -1	U70	6U3	U02	U70	4U71	I I b
y ol%bOenum	58-1	6U68	6U50	6U56	6U86	2U27	I I b
NeoO%mAum	137-1						ql s
NeoO%mAum	137-2						ql s
NAqkel	67-2	1U03	1U01	1U46	1U0	3U1	I I b
PEosI Eorus	01-2	- U35	-28U54	-0U36	-10U06		I I b
Po&assAum	05-2	2 88U26	2830U73	2873U11	2813U4	1U15	I I b
CEoOAum	170-1				55		G
CEoOAum	170-2				58		G
pqanOAum	43-1				177		G
pqanOAum	43-2				58		G
pelenAum	82-1	7U57	7U14	7U0	7U4	80U53	I I b
pelenAum	-2	-1U73	-1U73	7U72	-7U7		I I b
pelenAum	8-2	2U22	7U53	1U32	1U36	47U1	I I b
pAAqon	28-1	3013U88	3035U21	321 U21	325 U44	1U0	I I b
pAger	17 -1	7U71	7U71	7U70	7U72	51U34	I I b
pAger	175-1	7U77	7U71	7U77	7U77	83U21	I I b
poOAum	20-2	27366U5	27815U73	27627U63	27668U85	7U64	I I b
p&onA&um	86-1	1 1U41	1 U22	1 8U46	1 3U7	2U14	I I b
p&onA&um	88-1	187U33	180U32	183U7	180U74	1U26	I I b
pulfur	04-1	10818U28	10433U27	10170U84	10435U11	2U63	I I b
i erbAum	135-1				171		G
i erbAum	135-2				58		G
i EallAum	270-1	7U73	7U74	7U74	7U74	16U32	I I b
i EallAum	273-1	7U76	7U74	7U74	7U73	16U23	I I b
i An	118-1	0U25	0U03	0U2	0U07	1U2	I I b
i A&anAum	4 -1	7U50	7U5	1U22	1U74	14U87	I I b
RranAum	208-1	2U76	1U55	2U78	2U74	2U01	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-73	Dns&umne&Name:9	P8
v lAen&pamI le:D :9	y h 7F58	t Au&on:Faq&or:9	1
t a&e:T:i Ame:c qduAeO:9	2720-7 -14:139279I	t a&aFAe:Name:9	725c C. FU0

Parame&er	y ass	v onCel 1	v onCel 2	v onCel 0	c gM:v onqU	v onqCpt	RnA&s
VanaOAum	31-2	7U37	7U48	7U31	7U37	0U45	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	85-1				172		G
Y&&Aum	85-2				58		G
ZAnq	66-2	43U7	43U51	4 U22	46U28	1U	I I b
ZAqonAum	57-1	7U7	7U7	7U78	7U7	8U38	I I b
ZAqonAum	51-1	7U78	7U78	7U17	7U75	14U47	I I b

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Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-76	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. hh	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2720-7 -14:139209I	t a&a. Ae:Name:9	707c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	cvgF.RonqF	Ronq5 pt	UnA&s
c lumAnAum	2 -2	42F62	46F06	44F01	44F40	4F21	I I b
c n&Amon%	121-1	7F13	7F16	7F16	7F16	0F2	I I b
c rsenAq	3-2	7F08	7F0h	7F42	7F0h	3F01	I I b
BarAum	103-1	43F78	46F62	43F71	43F3	1Fhh	I I b
BarAum	10 -1	43F12	4 F07	46F02	46F24	2F06	I I b
Ber%lAum	h-1	7F14	7F10	7F13	7F14	6F3	I I b
BAsmu&E	27h-1				hh		G
BAsmu&E	27h-2				177		G
BromAne	81-1						ql s
RaOmAum	178-1	7F2	7F27	7F02	7F2	20F1	I I b
RaOmAum	176-1	-1Fh2	-2F7	-2F2	-2F7h		I I b
RaOmAum	111-1	-7F10	-7F13	-7F1	-7F13		I I b
RalqAum	40-1	0767 F88	0780hF43	07h77F13	07 82F4h	7F37	I I b
RalqAum	44-1	01634F76	07h64F74	022 2F31	01607F27	2F7	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
REIorAne	03-1						ql s
REIorAne	03-2						ql s
REromAum	32-2	7F42	7F34	7F46	7F48	12F21	I I b
Robal&	3h-2	7F38	7F34	7F62	7F38	6F34	I I b
RoI I er	60-2	7F 1	7F86	7F80	7F87	hFh7	I I b
t %sI rosAum	136-1						ql s
t %sI rosAum	136-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
y olmAum	163-1				172		G
y olmAum	163-2				172		G
DnOAum	113-1				170		G
DnOAum	113-2				172		G
Don	34-2	60F4h	3F87	2F74	7F44	8Fh6	I I b
Don	36-2	64F84	2F40	7F72	6hF17	3F61	I I b
Don	3 -2	h8F 2	120F18	170F21	178F0	12F71	I I b
Kr%l &on	80-1						ql s
LeaO	276-1	7F21	7F22	7F23	7F20	hF26	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-76	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. hh	t Au&on:. aq&or:9	1
t a&:T:i Ame:c qduAeO.9	2720-7 -14:139209I	t a&a. Ae:Name:9	707c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	27 -1	7F20	7F24	7F23	7F24	4F71	I I b
LeaO	278-1	7F20	7F20	7F24	7F20	2Fh0	I I b
LA&EAum	6-1				h8		G
MagnesAum	24-2	372F3h	818 F62	880Fh6	838F76	4F0	I I b
Manganese	33-2	37F42	34Fh6	30F80	30F7	4F46	I I b
Mol%bOenum	h4-1	8F13	8F01	8F74	8F1	1F66	I I b
Mol%bOenum	h3-1	6F60	6F 4	6F31	6F60	1F6h	I I b
Mol%bOenum	h6-1	6F83	6F83	6F3h	6F 6	2F20	I I b
Mol%bOenum	h -1	6F82	F76	6F3h	6F82	0F47	I I b
Mol%bOenum	h8-1	6F 7	6F 1	6F60	6F68	7F6	I I b
NeoO%mAum	137-1						ql s
NeoO%mAum	137-2						ql s
NAqkel	67-2	7F36	7F67	7F	7F64	1 Fh7	I I b
PEosI Eorus	01-2	-22F27	4F7h	-02F 0	-16Fh3		I I b
Po&assAum	0h-2	24h4F17	2 1F11	2 4hF2	26 1F4h	3F	I I b
5 EoOAum	170-1				177		G
5 EoOAum	170-2				170		G
pqanOAum	43-1				171		G
pqanOAum	43-2				171		G
pelenAum	82-1	7F 4	1F73	1F18	7Fh	22F 7	I I b
pelenAum	-2	-1F73	-1F73	7F77	-7F 7		I I b
pelenAum	8-2	1F11	7F61	7F81	7F84	2hF40	I I b
pAAqon	28-1	312 F40	3263F7	31h6F14	31h6F21	1F02	I I b
pAver	17 -1	7F77	7F71	7F77	7F71	61F20	I I b
pAver	17h-1	7F77	-7F71	7F77	7F77		I I b
poOAum	20-2	27031F37	22071F26	2138hFh0	21414F20	4F61	I I b
p&ona&um	86-1	188F18	1h1F01	18 F84	18hF11	1F71	I I b
p&ona&um	88-1	1h3F07	1hhF87	1h4F12	1h6F41	1F30	I I b
pulfur	04-1	16468F73	16603F68	16077F87	16468F18	1F72	I I b
i erbAum	13h-1				172		G
i erbAum	13h-2				174		G
i EallAum	270-1	7F70	7F77	7F74	7F70	0F80	I I b
i EallAum	273-1	7F74	7F72	7F70	7F70	03F67	I I b
i An	118-1	7F42	7F42	7F48	7F44	8F68	I I b
i A&anAum	4 -1	1F20	7Fhh	1F12	1F11	17F4	I I b
UranAum	208-1	2F1	2F1h	2F1h	2F18	7F61	I I b

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Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-76	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. hh	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139209I	t a&a. Ae:Name:9	707c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
VanaOAum	31-2	7F03	7F02	7F03	7F04	4Fh6	I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8h-1				172		G
Y&&Aum	8h-2				170		G
ZAnq	66-2	02F68	04F1h	00F42	00F40	2F26	I I b
ZAqonAum	h7-1	1F31	1F36	1F4	1F31	0F7h	I I b
ZAqonAum	h1-1	1F01	1F44	1F40	1F0h	3F0h	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0324-7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. c 7	t Au&on:. aq&or:9	1
t a&:T:i Ame:cqduAeO.9	2720-7 -14:139269 13	t a&a. Ae:Name:9	701c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
c lumAnAum	2 -2	3F33	3F63	3F80	3F68	2F44	I I b
c n&Amonh	121-1	7F77	7F71	7F77	7F77	331F26	I I b
c rsenAq	3-2	-7F71	-7F71	-7F72	-7F71		I I b
BarAum	103-1	7F74	7F72	7F72	7F70	42F63	I I b
BarAum	10 -1	7F71	7F70	7F77	7F72	17 F64	I I b
BerhlIAum	%1	7F72	7F72	7F71	7F72	13F10	I I b
BAsmu&E	27%1				%6		G
BAsmu&E	27%2				%6		G
BromAne	81-1						ql s
RaOmAum	178-1	7F1	7F28	7F26	7F24	20F66	I I b
RaOmAum	176-1	-1F88	-1F4	-7F 7	-1F03		I I b
RaOmAum	111-1	-7F13	-7F11	-7F73	-7F17		I I b
RalqAum	40-1	2F01	7F%3	-7F7%	1F76	114F71	I I b
RalqAum	44-1	32F8	44F26	40F17	46F 4	11F42	I I b
Rarbon	12-1						ql s
Rarbon	12-2						ql s
REIorAne	03-1						ql s
REIorAne	03-2						ql s
REromAum	32-2	7F7%	-7F70	7F7	7F74	14 F11	I I b
Robal&	3%2	-7F71	7F77	-7F71	-7F71		I I b
RoI I er	60-2	7F10	7F16	7F7%	7F10	23F	I I b
t hsI rosAum	136-1						ql s
t hsI rosAum	136-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
HaOolAnAum	167-1						ql s
HaOolAnAum	167-2						ql s
y olmAum	163-1				177		G
y olmAum	163-2				%		G
DnOAum	113-1				177		G
DnOAum	113-2				%		G
Don	34-2	2F20	7F31	0F73	1F%0	6 F26	I I b
Don	36-2	7F6%	7F88	1F72	7F86	1%F71	I I b
Don	3 -2	7F37	-1F2	7F23	-7F1		I I b
KrhI &on	80-1						ql s
LeaO	276-1	7F71	7F77	7F71	7F71	24F26	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	SI era&or:9	Jaswal
Lab:pamI le:D :9	S0324-7	Dns&umne&Name:9	P8
RIAen&pamI le:D :9	My 7. c 7	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139269 13	t a&a. Ae:Name:9	701c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF.RonqF	Ronq5 pt	UnA&s
LeaO	27 -1	7F71	7F77	7F71	7F71	67F27	I I b
LeaO	278-1	7F71	7F77	7F71	7F71	42F4%	I I b
LA&EAum	6-1				%6		G
MagnesAum	24-2	-7F00	-7F76	1F17	7F24	01 F3	I I b
Manganese	33-2	7F72	-7F74	-7F71	-7F71		I I b
MolhbOenum	%4-1	7F72	-7F71	-7F71	7F77		I I b
MolhbOenum	%3-1	7F71	7F71	7F77	7F71	8%F8	I I b
MolhbOenum	%6-1	7F77	7F71	-7F71	7F77	623F86	I I b
MolhbOenum	% -1	7F70	7F70	7F77	7F72	87F 8	I I b
MolhbOenum	%8-1	7F77	7F77	-7F71	7F77		I I b
NeoOhmAum	137-1						ql s
NeoOhmAum	137-2						ql s
NAqkel	67-2	7F72	7F71	7F71	7F71	%F08	I I b
PEosI Eorus	01-2	-24F0	-40F26	-20F40	-07F03		I I b
Po&assAum	0%2	40F%2	0%F1%	44F11	42F41	6F3	I I b
5 EoOAum	170-1				%%		G
5 EoOAum	170-2				%8		G
pqanOAum	43-1				%%		G
pqanOAum	43-2				%3		G
pelenAum	82-1	-7F76	-7F48	-7F01	-7F28		I I b
pelenAum	-2	-1F73	-1F73	-1F73	-1F73		I I b
pelenAum	8-2	7F33	-7F17	1F21	7F33	118F70	I I b
pAAqon	28-1	%F34	3F%1	4F80	6F 6	06F33	I I b
pAver	17 -1	7F77	7F77	7F71	7F77	102F 0	I I b
pAver	17%1	7F77	7F71	7F77	7F77	07 F00	I I b
poOAum	20-2	6 F3	63F27	3F%2	6%F3	8F7%	I I b
p&ona&um	86-1	7F73	7F70	7F77	7F72	176F 1	I I b
p&ona&um	88-1	7F72	7F72	7F77	7F71	174F43	I I b
pulfur	04-1	-14F 3	- 22F67	-404F72	-0%7F46		I I b
i erbAum	13%1				%8		G
i erbAum	13%2				%6		G
i EallAum	270-1	7F71	7F70	7F77	7F71	11 F26	I I b
i EallAum	273-1	7F71	7F71	7F70	7F72	4 F31	I I b
i An	118-1	-7F71	-7F71	-7F72	-7F71		I I b
i A&anAum	4 -1	7F14	7F71	7F17	7F78	6F43	I I b
UranAum	208-1	7F77	7F77	7F77	7F77		I I b

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:9	LB126466	S I era&or:9	Jaswal
Lab:pamI le:D :9	S0324-7	Dns&umne&Name:9	P8
RIAn&pamI le:D :9	My 7. c 7	t Au&on:. aq&or:9	1
t a&e:T:i Ame:c qduAeO.9	2720-7 -14:139269 13	t a&a. Ae:Name:9	701c 5 C. FO

Parame&er	Mass	Ron5 el 1	Ron5 el 2	Ron5 el 0	c vgF:RonqF	Ronq5 pt	UnA&s
VanaOAum	31-2	-7F71	7F77	7F77	7F77		I I b
Y&erbAum	1 2-1						ql s
Y&erbAum	1 2-2						ql s
Y&erbAum	1 6-1						ql s
Y&erbAum	1 6-2						ql s
Y&&Aum	8%1				177		G
Y&&Aum	8%2				%6		G
ZAnq	66-2	-7F16	-7F22	-7F70	-7F14		I I b
ZAqonAum	%7-1	7F77	7F71	-7F71	7F77		I I b
ZAqonAum	%1-1	-7F70	-7F71	7F71	-7F71		I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	5 t pII iCI:J	wI P8 I N
LI r :DI e t Nd:&T :J	SS03-3	& FIIbe . pi:mI e p:J	ua
SNdp. i:DI e t Nd:&T :J	SS03-3	TdNiqC. :UI OCI:J	1
TI ip:A:cqe p:dOobdqpn:J	232-73 714:19J4aJ3s	TI il UdNd:mI e p:J	3-4SS0Fn

ul II e pipI	y I PP	SC. v pt 1	SC. v pt 2	SC. v pt -	dgMFSC. OF	SC. Ov DT	R. qP
dINe q dpe	2 72	93- - aF4s	93323Fas	4s326F-3	4s s9F2-	1F-	t t r
d. iqe C. h	12171	4ssF6s	91 F a	93 F-2	93aF26	1F s	t t r
dIPp. qO	972	916Fa-	921F1s	92-F32	923F-9	3F61	t t r
BI Idpe	1-971	2931F36	26-aF 4	2961F2-	296 F31	2F6s	t t r
BI Idpe	1- 71	24s-F a	26- - F3	29aaF-1	29 1F 2	2F	t t r
BpIhNNdpe	s71	4asF 6	4a4F4a	4asF41	4a Faa	3F63	t t r
BqPe bi%	23s71				s6		E
BqPe bi%	23s72				s3		E
BICe q p	a171						OI P
SI ne dpe	13a71	91sFs4	94 Fa3	944F33	9- F29	2Fa1	t t r
SI ne dpe	13671	9- - F 3	949F-9	94aF1a	942F41	1F41	t t r
SI ne dpe	11171	9- F16	992Fa6	9-sF-4	94-F12	1F9	t t r
SI NOdpe	4-71	24 a-9F 9	2913a4Fs1	291 aaF1s	2932-6F2a	3Fa4	t t r
SI NOdpe	4471	249332F46	24-9s4F14	293-9-F4a	246-16F6s	1F49	t t r
SI Ir C.	1271						OI P
SI Ir C.	1272						OI P
S%NOIq p	-971						OI P
S%NOIq p	-972						OI P
S%ICe dpe	9272	4 9Fs-	49aF99	4 1F69	46aF 1	1Fs-	t t r
SOr I NI	9s72	4s1F34	49sF32	462Fs6	4 1F31	-F 1	t t r
SOt t pI	6-72	4s43Fs4	4a39F24	4 92F3	4a-2F 9	2F32	t t r
ThPt IOPdpe	19671						OI P
ThPt IOPdpe	19672						OI P
GIr dpe	16471						OI P
GIr dpe	16472						OI P
HI nONqI dpe	16371						OI P
HI nONqI dpe	16372						OI P
KONe dpe	16971				134		E
KONe dpe	16972				s		E
& ndpe	11971				131		E
& ndpe	11972				s2		E
&C.	9472	12 23-F13	12-6asF9-	12614sF6s	1296a3F	1F4-	t t r
&C.	9672	12- 46F33	121 a4F42	123a6sF2a	1221- - F24	1F23	t t r
&C.	9 72	126-2sF	129 42F66	126-1 Fs2	1261-3F12	3F2	t t r
kIht iC.	a-71						OI P
LpI n	23671	2924F3	29- Fs2	29-1F6s	29-1F22	3F2	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	5 t pII iCI:J	wI P8 I N
LI r :DI e t Np:&T :J	SS03-3	& FIIbe . pi:mI e p:J	ua
SNp. i:DI e t Np:&T :J	SS03-3	TdNiqC. :UI OCI:J	1
TI ip:A:cqe p:dOobdqpn:J	232-73 714:19J4aJ3s	TI il UdNp:mI e p:J	3-4SS0Fn

ul II e pipI	y I PP	SC. v pt 1	SC. v pt 2	SC. v pt -	dgMFSC. OF	SC. Ov DT	R. qP
LpI n	23 71	2943Fa3	261sFaa	299-F24	29 1F-1	1F69	t t r
LpI n	23a71	2993F--	2619F	29-sF3s	296aF43	1F61	t t r
Lq%dpe	671				s		E
y I M pPdpe	2472	24a-a-F9-	2469-2F9a	2416 -F41	24992sFa4	1F41	t t r
y I . M . pPp	9972	4aa2F69	4 aF69	4aa1F-9	4a4 F99	1F2-	t t r
y CNr np. be	s471	4as F3	9193F4a	9331Fa9	9316F4	2F94	t t r
y CNr np. be	s971	4 a2F9-	91 -F--	4s6aF-	4s 4Fa6	-Fs-	t t r
y CNr np. be	s671	4a64F12	9163F-a	4s 3F6-	4ssaF-a	-F33	t t r
y CNr np. be	s 71	4s2sF4s	9131F-6	4s6 F21	4sssF-9	1Fa1	t t r
y CNr np. be	sa71	4s2-F9	9119F23	4s39F-6	4sa1F-a	2F--	t t r
mpOnhe dpe	19371						OI P
mpOnhe dpe	19372						OI P
mqOr pN	6372	4aaF91	4 -Fs	46sF44	4 F-1	2F3s	t t r
u%OPt %OIbP	-172	s 6sFs2	s61-Fa1	s99-F13	s649F61	1F16	t t r
uOI PPdpe	-s72	122 -6F2	1226-sF44	12244sF-s	12263aF92	3F12	t t r
v %Ondpe	13-71				s		E
v %Ondpe	13-72				s1		E
DOI . ndpe	4971				13-		E
DOI . ndpe	4972				s9		E
DpNp. dpe	a271	4a4Fa3	93-F-s	4s3Faa	4s-F32	1Fs2	t t r
DpNp. dpe	72	494F63	466Fa4	931F94	4 4F--	9F1-	t t r
DpNp. dpe	a72	4 F9s	4saFa4	4a3Fs4	4a9F s	2F-9	t t r
DqNDC.	2a71	49-F32	4aaFs9	4aaF-a	4 6F a	4F-2	t t r
DqNgpI	13 71	4a6F39	4s4Fa	4s2F4a	4s1F1-	3Fs-	t t r
DqNgpI	13s71	4a2F9a	93-Fa9	4s F-9	4s4F9s	2F23	t t r
DOndpe	2-72	24s39aFs	24 122Fa-	24264 F4a	2462 6F42	1F-4	t t r
DiIC. idpe	a671	121 3F4a	1269 F3-	1264 F1s	124s1F96	2F2-	t t r
DiIC. idpe	aa71	12222Fa	126a F	12944Fs-	124a9F1s	1Fs1	t t r
DbNbI	-471	s9-4F66	sa 9F1	s - F-9	s 19F-	1F 6	t t r
cpIr dpe	19s71				134		E
cpIr dpe	19s72				s6		E
c%NNpe	23-71	936F39	91 F6-	919F34	912Fs1	1F1a	t t r
c%NNpe	23971	913Fa9	919Fa3	93 F63	911F42	3Fa1	t t r
cq	11a71	4s F11	932F2-	934F-3	931F21	3F 4	t t r
cqI . dpe	4 71	4s -Fs2	9329F91	93s3F4-	932sFs9	1F16	t t r
RII . dpe	2-a71	921F1a	9-3F3-	916F31	922F43	1F-6	t t r

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	5 t pII iCl:J	wI P8 I N
LI r :DI e t Nb:&T :J	SS03-3	& FIIbe . pi:mI e p:J	u a
SNp. i:DI e t Nb:&T :J	SS03-3	TdNiqC. :UI OCl:J	1
TI ip:A:cqe p:dOobdpn:J	232-73 714:19J4aJ3s	TI il UdNb:mI e p:J	3-4SS0Fm

ul II e pipl	y I PP	SC. v pt 1	SC. v pt 2	SC. v pt -	dgMF:SC. OF	SC. Ov DT	R. qP
0I . I ndpe	9172	4saF	4a F32	4aaF4a	4s1F42	1F-3	t t r
YiipIr dpe	1 271						OI P
YiipIr dpe	1 272						OI P
YiipIr dpe	1 671						OI P
YiipIr dpe	1 672						OI P
YiiIdpe	as71				139		E
YiiIdpe	as72				s9		E
ZqO	6672	4s2-F13	4a94Fa	4a36F21	4a61F-s	1F21	t t r
ZqOC. dpe	s371	93-Fa9	91-F42	933F3	939F a	1F-6	t t r
ZqOC. dpe	s171	4 -F-1	931F61	4a9Fs2	4a6Fs4	2Fs1	t t r

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB030	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB030	t Au&n5 Faq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9 29 13	t a&aFAe Name 9	03: SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
clumA5Aum	27-2	3.10	4.70	4.: 8	4.13	21.: y	I I b
c5&mn5h	121-1	0.2:	0.26	0.21	0.24	10.8:	I I b
crse5Aq	7: -2	0.06	0.03	0.06	0.0:	37.32	I I b
BarAum	13: -1	1.07	0.68	0.20	0.6:	67.22	I I b
BarAum	137-1	0.8:	0.47	0.34	0.: 6	47.30	I I b
BerhlIAum	y-1	0.18	0.13	0.0:	0.12	: : .11	I I b
BAsmu&%	20y-1				101		E
BAsmu&%	20y-2				y7		E
BrnmA5e	81-1						ql s
SaOmAum	108-1	0.: 7	0.: :	0.27	0.46	3: .y7	I I b
SaOmAum	106-1	-3.8:	-2.40	-2.y0	-3.0:		I I b
SaOmAum	111-1	-0.11	-0.07	-0.16	-0.11		I I b
SalqAum	43-1	61.47	41.: y	22.06	41.71	47.24	I I b
SalqAum	44-1	121.: 3	86.1:	: : .68	87.7y	37.: 4	I I b
Sarbn5	12-1						ql s
Sarbn5	12-2						ql s
S%nrA5e	3: -1						ql s
S%nrA5e	3: -2						ql s
S%nmAum	: 2-2	0.06	0.14	-0.03	0.06	148.42	I I b
Snbal&	: y-2	0.03	0.04	0.04	0.04	22.63	I I b
SnI I er	63-2	0.: 6	0.7y	0.7:	0.70	17.28	I I b
t hsI rnsAum	1: 6-1						ql s
t hsI rnsAum	1: 6-2						ql s
CrbAum	164-1						ql s
CrbAum	164-2						ql s
GaOnIA5Aum	160-1						ql s
GaOnIA5Aum	160-2						ql s
HnImAum	16: -1				102		E
HnImAum	16: -2				101		E
D5OAum	11: -1				104		E
D5OAum	11: -2				yy		E
Dn5	: 4-2	6.08	11.28	12.36	y.y1	33.87	I I b
Dn5	: 6-2	7.62	11.41	11.18	10.07	21.08	I I b
Dn5	: 7-2	7.66	11.48	11.83	10.32	22.42	I I b
Krhl &n5	83-1						ql s
LeaO	206-1	0.78	0.: 3	0.1y	0.: 0	: 8.73	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB030	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB030	t Au&n5 Faq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9 29 13	t a&aFAe Name 9	03: SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
LeaO	207-1	0.63	0.71	0.2:	0.: 3	4: .y3	I I b
LeaO	208-1	0.70	0.67	0.23	0.: 3	48.83	I I b
LA%Aum	6-1				y7		E
Mag5esAum	24-2	13.6y	2: .06	22.06	20.27	2y.06	I I b
Ma5ga5ese	: : -2	0.23	0.40	0.43	0.3:	31.20	I I b
MnlhbOe5um	y4-1	2.0:	1.47	0.74	1.42	4: .yy	I I b
MnlhbOe5um	y: -1	2.48	1.4:	0.62	1.: 1	61.48	I I b
MnlhbOe5um	y6-1	2.04	1.43	0.7y	1.42	44.0:	I I b
MnlhbOe5um	y7-1	3.1y	1.27	0.81	1.76	71.70	I I b
MnlhbOe5um	y8-1	1.4:	1.33	0.84	1.20	26.7y	I I b
NenOhmAum	1: 0-1						ql s
NenOhmAum	1: 0-2						ql s
NAqkel	60-2	0.00	0.02	0.00	0.01	128.6y	I I b
P%nsI %nrus	31-2	-36.2:	-36.: 4	-7.84	-26.88		I I b
Pn&assAum	3y-2	88.7y	86.1:	73.4:	82.80	y.y1	I I b
R%nOAum	103-1				102		E
R%nOAum	103-2				101		E
pqa5OAum	4: -1				102		E
pqa5OAum	4: -2				y8		E
pele5Aum	82-1	-0.07	-0.01	-0.23	-0.10		I I b
pele5Aum	77-2	0.00	0.02	-1.0:	-0.34		I I b
pele5Aum	78-2	0.04	0.37	0.40	0.27	73.61	I I b
pAqn5	28-1	7.67	7.: 3	-0.y6	4.7:	104.12	I I b
pAver	107-1	0.02	0.01	0.02	0.02	42.83	I I b
pAver	10y-1	0.02	0.01	0.02	0.01	43.: 7	I I b
pnOAum	23-2	128.81	13y.76	128.yy	132.: 2	4.73	I I b
p&n5&Aum	86-1	3.66	3.72	0.y8	2.7y	: 6.26	I I b
p&n5&Aum	88-1	4.31	2.y0	1.0y	2.77	: 8.26	I I b
pulfur	34-1	37y.08	446.30	-y66.: 2	-47.0:		I I b
i erbAum	1: y-1				101		E
i erbAum	1: y-2				yy		E
i %allAum	203-1	0.21	0.22	0.12	0.18	31.y3	I I b
i %allAum	20: -1	0.: 6	0.1y	0.12	0.2y	81.6y	I I b
i A5	118-1	0.26	0.16	0.01	0.14	88.y7	I I b
i A&a5Aum	47-1	1.47	1.36	0.6:	1.16	38.40	I I b
Ura5Aum	238-1	0.10	0.13	0.03	0.0y	: 6.10	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number 9	LB126466	o l era&ar 9	Jaswal
Lab pamI le D 9	SSB030	D5s&um5e&Name 9	P8
SIAe5&pamI le D 9	SSB030	t Au&A5 Faq&ar 9	1
t a&e T i Ame c qduAeO 9	2023-07-14 1: 9 29 13	t a&aFAe Name 9	03: SSBC.O

Parame&er	Mass	Sn5Rel 1	Sn5Rel 2	Sn5Rel 3	cvg. Sn5q.	Sn5qRpt	U5A&s
Va5aOAum	: 1-2	0.00	0.0:	0.03	0.03	104.11	I I b
Y&erbAum	172-1						ql s
Y&erbAum	172-2						ql s
Y&erbAum	176-1						ql s
Y&erbAum	176-2						ql s
Y&&Aum	8y-1				10:		E
Y&&Aum	8y-2				yy		E
ZA5q	66-2	0.33	0.41	0.38	0.37	10.30	I I b
ZAqn5Aum	y0-1	0.1y	0.11	0.08	0.13	4: .32	I I b
ZAqn5Aum	y1-1	0.13	0.0y	0.0:	0.0y	42.: 8	I I b

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	57	80	91	76	22.54	cps
Antimony	121-1	75	17	33	42	72.11	cps
Arsenic	75-2	0	4	8	4	100.00	cps
Barium	135-1	25	17	50	31	56.77	cps
Barium	137-1	50	117	92	86	39.11	cps
Beryllium	9-1	31	44	30	35	21.71	cps
Bismuth	209-1	5382253	5442334	5589016	5471201	1.94	cps
Bismuth	209-2	2919749	2892410	2894893	2902351	0.52	cps
Bromine	81-1	4151	3651	3659	3820	7.50	cps
Cadmium	108-1	21	17	25	21	19.99	cps
Cadmium	106-1	3617	3392	3434	3481	3.44	cps
Cadmium	111-1	2538	2375	2407	2440	3.54	cps
Calcium	43-1	227	227	216	224	2.90	cps
Calcium	44-1	35020	34490	33974	34495	1.52	cps
Carbon	12-1	2544394	2535813	2513573	2531260	0.63	cps
Carbon	12-2	30415	31008	30607	30677	0.99	cps
Chlorine	35-1	171466	174392	170597	172151	1.15	cps
Chlorine	35-2	1217	1258	1192	1222	2.76	cps
Chromium	52-2	1140	1143	1077	1120	3.35	cps
Cobalt	59-2	53	77	97	76	28.71	cps
Copper	63-2	497	560	600	552	9.44	cps
Dysprosium	156-1	17	0	8	8	100.02	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	67	58	33	53	32.87	cps
Erbium	164-2	30	27	17	24	28.38	cps
Gadolinium	160-1	100	108	100	103	4.68	cps
Gadolinium	160-2	130	130	103	121	12.71	cps
Holmium	165-1	7612364	8147854	8046092	7935436	3.58	cps
Holmium	165-2	3681447	3887442	3758603	3775831	2.76	cps
Indium	115-1	5954395	6151879	5964157	6023477	1.85	cps
Indium	115-2	917539	908418	913843	913267	0.50	cps
Iron	54-2	389	356	433	393	9.94	cps
Iron	56-2	3128	3189	3678	3332	9.05	cps
Iron	57-2	122	144	189	152	22.35	cps
Krypton	83-1	252	265	252	257	2.81	cps
Lead	206-1	744	756	750	750	0.74	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	594	572	561	576	2.95	cps
Lead	208-1	2928	2906	2778	2871	2.82	cps
Lithium	6-1	2422106	2453489	2487440	2454345	1.33	cps
Magnesium	24-2	117	133	292	181	53.49	cps
Manganese	55-2	63	90	110	88	26.67	cps
Molybdenum	94-1	125	108	142	125	13.33	cps
Molybdenum	95-1	67	17	50	44	57.28	cps
Molybdenum	96-1	125	83	142	117	25.75	cps
Molybdenum	97-1	17	17	8	14	34.67	cps
Molybdenum	98-1	50	75	75	67	21.65	cps
Neodymium	150-1	7	33	7	16	98.94	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	50	57	87	64	30.31	cps
Phosphorus	31-2	158	133	192	161	18.16	cps
Potassium	39-2	9954	9895	10237	10029	1.82	cps
Rhodium	103-1	6011167	6097516	6168786	6092490	1.30	cps
Rhodium	103-2	2937566	2940576	2990267	2956136	1.00	cps
Scandium	45-1	3952006	4080929	4106304	4046413	2.04	cps
Scandium	45-2	140759	138362	137851	138991	1.12	cps
Selenium	82-1	29	1	-8	8	252.21	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	17	16	11	15	21.92	cps
Silicon	28-1	212705	209510	210812	211009	0.76	cps
Silver	107-1	33	108	133	92	56.78	cps
Silver	109-1	75	100	50	75	33.33	cps
Sodium	23-2	14224	14357	14316	14299	0.48	cps
Strontium	86-1	458	517	425	467	9.94	cps
Strontium	88-1	683	667	617	656	5.29	cps
Sulfur	34-1	343982	337278	343488	341583	1.09	cps
Terbium	159-1	8013662	8261623	8272920	8182735	1.79	cps
Terbium	159-2	3771759	3659822	3682487	3704689	1.60	cps
Thallium	203-1	283	192	175	217	26.92	cps
Thallium	205-1	375	425	508	436	15.45	cps
Tin	118-1	775	725	875	792	9.65	cps
Titanium	47-1	150	75	92	106	37.31	cps
Uranium	238-1	58	42	58	53	18.23	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 13:46:20	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	30	30	21	72.94	cps
Ytterbium	172-1	42	58	58	53	18.23	cps
Ytterbium	172-2	33	6	11	17	88.17	cps
Ytterbium	176-1	1108	1125	1167	1133	2.65	cps
Ytterbium	176-2	9754	9732	9904	9796	0.96	cps
Yttrium	89-1	10594181	11199398	11191454	10995011	3.16	cps
Yttrium	89-2	1208786	1211934	1198852	1206524	0.57	cps
Zinc	66-2	193	127	177	166	20.96	cps
Zirconium	90-1	442	400	417	419	5.00	cps
Zirconium	91-1	50	58	108	72	43.69	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S02	D Dw&pmb Or &usb r :	8N
F A C&Ssb l P D :	S02	t A &nC Msq&ap:	1
t s& T i A r cqdm r O:	2023-07-14 13:4J:22	t s&s M P usb r :	00. F c LSU D

8spsb r&p	5 sww	F8S1	F8S2	F8S3	F8S5 r sC	F8S9 St	RC&w
c P b A C b	27-2	JJ7	J41	J21	J. 3	4U1.	ql w
c C&b n Cy	121-1	J22N	J770	10046	J6N1	4U30	ql w
c pwr C q	7. -2	132	13J	162	144	10UNN	ql w
B sp b	13. -1	10221	110J6	10763	106J3	4U13	ql w
B sp b	137-1	1N. J6	1N6. .	1777J	1N343	2U67	ql w
B r py P b	J-1	1. 34	1. . 7	1. J0	1. 60	1UN1	ql w
B b m&a	20J-1	. 34NJNN	. . J1J2N	. 43441N	. 4. N44.	2U26	ql w
B b m&a	20J-2	2J323N4	2NN. 0J7	2J0NN6J	2J0N7N3	0UN1	ql w
B pmb A r	N1-1	461N	3J76	4076	4223	NU1N	ql w
F s C b b	10N-1	133	117	133	12N	7U3	ql w
F s C b b	106-1	3667	3J67	36. 1	3762	4U74	ql w
F s C b b	111-1	3J03	4116	3N16	3J4.	3UJ1	ql w
F s P q b	43-1	7444	7421	73N6	7417	0U3J	ql w
F s P q b	44-1	1. 12. 4	1. 334.	1. 1247	1. 1J4J	0UN0	ql w
F s p n C	12-1	2. 74. N1	2. 07J. 3	2. 3. 2. J	2. 3J264	1U32	ql w
F s p n C	12-2	31117	30N66	30741	30J0N	0U62	ql w
F h P p A r	3. -1	170N16	172620	172J33	172123	0U66	ql w
F h P p A r	3. -2	127.	120N	122.	1236	2UN1	ql w
F h pmb b	. 2-2	41J4	4114	4. 11	4273	4UJ1	ql w
F nes P&	. J-2	26. 4	3004	2N17	2N2.	6U20	ql w
F n l l r p	63-2	. 011	. 01N	. 0J4	. 041	0UJ2	ql w
t y w l pnw b	1. 6-1	0	N	N	6	N6U60	ql w
t y w l pnw b	1. 6-2	3	0	3	2	N6U60	ql w
E pe b	164-1	. N	7.	7.	6J	13UN6	ql w
E pe b	164-2	23	37	33	31	22U31	ql w
G s C n F A C b	160-1	33	100	N3	72	4NU04	ql w
G s C n F A C b	160-2	103	J7	107	102	4UJN	ql w
H n P b b	16. -1	7N7. 4. 1	N2N1234	N313032	N1. 6. 72	2UJJ	ql w
H n P b b	16. -2	3N72NN7	3N0276J	37J0NJ1	3N221N2	1U16	ql w
D C b	11. -1	6010646	6277323	61J7243	616173N	2U22	ql w
D C b	11. -2	J2N0J.	J31071	J2. . 43	J2N236	0U30	ql w
D n C	. 4-2	3J. 1	3J73	43. 6	40J3	. U7	ql w
D n C	. 6-2	672. N	67302	6717.	6724.	0U10	ql w
D n C	. 7-2	1N2N	17J.	1N2N	1N17	1U06	ql w
K p y l &a C	N3-1	267	24J	2J4	270	NU37	ql w
L r s O	206-1	. 1. 1	. 007	. 007	. 0. .	1U6.	ql w

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S02	D w&pmb O r &u s b r :	8 N
F A C&Ssb l P D :	S02	t A &N C M sq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:4J:22	t s&s M P u s b r :	00. F c L S U D

8 sp s b r & p	5 s w w	F 8 S 1	F 8 S 2	F 8 S 3	F 8 S 5 r s C	F 8 S 9 S t	R C & w
L r s O	207-1	4212	4612	4101	430N	6U24	q l w
L r s O	20N-1	2002J	1JJ12	1J. 06	1JN16	1U3N	q l w
L A & n A m b	6-1	23J1170	23NJ3. .	24371. 1	240. NJ2	1U13	q l w
5 s g O r w A m b	24-2	. N66J	. JN. 7	. J347	. J2J1	1U01	q l w
5 s O g s O r w r	. . -2	763	N43	J30	N46	JUN6	q l w
5 n P y e O r O m b	J4-1	10404	102. 4	J67J	10112	3U7J	q l w
5 n P y e O r O m b	J. -1	12N. 6	12NJN	1364J	13134	3U40	q l w
5 n P y e O r O m b	J6-1	1. 242	144. 0	14J. 0	14NN1	2U6J	q l w
5 n P y e O r O m b	J7-1	N0J4	7N36	7010	7647	7U40	q l w
5 n P y e O r O m b	JN-1	207N3	20107	200N2	20324	1UJ6	q l w
u r n O y b A m b	1. 0-1	7	20	13	13	4JUJJ	q l w
u r n O y b A m b	1. 0-2	20	0	0	7	173U21	q l w
u A q k r P	60-2	NJ0	J00	N. 3	NN1	2U7J	q l w
8 h n w l h n p m w	31-2	1. N	167	1. N	161	2UJN	q l w
8 n & s w w A m b	3J-2	46133	464J2	47JN0	46N6N	2U0J	q l w
9 h n O A m b	103-1	. 7NJ1. J	61N40. 3	61232. N	60321. 7	3U2	q l w
9 h n O A m b	103-2	3024100	3030243	3007402	3020. N2	0U3J	q l w
S q s C O A m b	4. -1	3N370J0	4217N. 2	41. 4JJ0	406JJ77	. U02	q l w
S q s C O A m b	4. -2	13N214	13J214	13J632	13J020	0U2	q l w
S r P C A m b	N2-1	461	43J	4. 7	4. 2	2U66	q l w
S r P C A m b	77-2	20	17	30	22	31U22	q l w
S r P C A m b	7N-2	. .	6J	. J	61	11UN2	q l w
S A A q n C	2N-1	24JJ26	24NJ. 4	242J3.	247271	1U3	q l w
S A P r p	107-1	6760	6. N.	673.	66J3	1U41	q l w
S A P r p	10J-1	60N.	6127	67. 2	6321	. UJ1	q l w
S n O A m b	23-2	11J44.	12074N	11N606	11J600	0UJ0	q l w
S & n C & A m b	N6-1	210J	200J	16N3	1J34	11U4J	q l w
S & n C & A m b	NN-1	136JJ	13273	13131	1336N	2U21	q l w
S m P m p	34-1	344732	346J66	34. 636	34. 77N	0U33	q l w
i r p e A m b	1. J-1	7J6N34J	N40. . 22	N. 61. . 2	N311N0N	3U70	q l w
i r p e A m b	1. J-2	37. N. N3	37. 133J	37J6J0.	376NJ43	0U6.	q l w
i h s P A m b	203-1	. 2J3	. 343	4J1N	. 1N.	4U4N	q l w
i h s P A m b	20. -1	12. 1.	12064	11N64	1214N	2U74	q l w
i A C	11N-1	1J773	210. 0	1JN73	20232	3U1	q l w
i A & s C A m b	47-1	3434	3J17	3N17	3723	6UN6	q l w
R p s C A m b	23N-1	171J.	16762	1732J	170J.	1U74	q l w

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbIP D :	S02	D Dw&pmb Or &usb r :	8N
FPA C&SsbIP D :	S02	t A P&nC Msq&ap:	1
t s& T i A r cqdmA r O:	2023-07-14 13:4J:22	t s&sMA P usb r :	00. FcLSU0

8spsb r&p	5 sww	F8S1	F8S2	F8S3	F8S5 r sC	F8S9 St	RC&w
VsCsOAmb	. 1-2	. 66N	. 70.	. J7.	. 7N2	2UJ0	ql w
Y&pe Amb	172-1	. 0	7.	. 0	. N	24U74	ql w
Y&pe Amb	172-2	. 0	44	2N	41	2NU3N	ql w
Y&pe Amb	176-1	11. 0	10. 0	10. 0	10N3	. U33	ql w
Y&pe Amb	176-2	J. . J	10. . 4	10332	1014J	. U1.	ql w
Y&pA mb	NJ-1	107NN732	11. N4160	1117N. 60	111N3N17	3U6	ql w
Y&pA mb	NJ-2	122647J	1240666	12134. 7	1226N67	1U11	ql w
ZA Cq	66-2	J07	N27	N60	N64	4U6.	ql w
ZA qnCAmb	J0-1	N661	N22N	N47N	N4. 6	2U7	ql w
ZA qnCAmb	J1-1	1742	20. 0	1J0J	1J00	NU12	ql w

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S03	DDw&pmb Or &usb r :	8N
. PA C&Ssb l P D :	S03	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:J2:26	t s&sUA P usb r :	006. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
c P b ACAmb	27-2	42N3J	43304	42N01	429N0	0F6J	ql w
c C&b nCy	121-1	26413N	2J7N39	264161	262046	1F39	ql w
cpwr CAq	7J-2	7J22	7232	7336	7363	2F00	ql w
BspAmb	13J-1	2N1N36	2N6N76	2N00J0	2N2920	1F2J	ql w
BspAmb	137-1	4N3609	J00290	490096	491332	1F71	ql w
Br pyPAmb	9-1	74116	74J30	74634	74427	0F37	ql w
BAb m&a	209-1	J3N6162	J67473N	J449213	JJ03371	2F76	ql w
BAb m&a	209-2	2N79144	2NNJ136	2N96N64	2NN704N	0F31	ql w
Bpmb AOr	N1-1	41J1	37J1	3J76	3N26	7F71	ql w
. sOb Amb	10N-1	J914	J493	JN22	J743	3FNJ	ql w
. sOb Amb	106-1	10NNN	10N3N	10704	10N10	0FNN	ql w
. sOb Amb	111-1	711NJ	716J4	70N90	71243	0FJ4	ql w
. sPqAmb	43-1	N91N4	N9N41	NN2J4	N9093	0FN9	ql w
. sPqAmb	44-1	14NN999	1476N11	1J01070	14NN960	0FN1	ql w
. spenC	12-1	2NJ7271	2NNJ692	2NN2J04	2N7J1J6	0FJ4	ql w
. spenC	12-2	34700	3J26N	3J92N	3J299	1F74	ql w
. hPmpAOr	3J-1	177J3N	1N1932	1N0971	1N0147	1F2N	ql w
. hPmpAOr	3J-2	14N3	1200	1400	1361	10F70	ql w
. hpmb Amb	J2-2	N3294	N1337	7N993	N120N	2F6J	ql w
. nesP&	J9-2	147N94	14369N	146192	14J92N	1F4J	ql w
. nI l r p	63-2	11N334J	116J993	1167361	1172233	0FN2	ql w
t ywl pnwAmb	1J6-1	2J	JN	33	39	44F62	ql w
t ywl pnwAmb	1J6-2	17	10	3	10	66F70	ql w
EpeAmb	164-1	JN	92	67	72	24F02	ql w
EpeAmb	164-2	30	23	43	32	31F61	ql w
GsOnFACAmb	160-1	7J	92	133	100	30F0J	ql w
GsOnFACAmb	160-2	130	120	140	130	7F69	ql w
HnP Amb	16J-1	7N92N34	N1J4600	7906020	79N44NJ	1FNJ	ql w
HnP Amb	16J-2	37N0067	3N13J01	37NN121	3793N96	0F46	ql w
DOCAmb	11J-1	J906264	6214J94	622NN93	6116JN4	2F9N	ql w
DOCAmb	11J-2	91JN09	90N0J0	913629	912496	0F44	ql w
DpnC	J4-2	1N4442	1N0900	1N2612	1N26J2	0F97	ql w
DpnC	J6-2	3424N19	3467900	34JN276	34J0332	0F66	ql w
DpnC	J7-2	N33N2	N21JN	N1376	N230J	1F23	ql w
KpyI &aC	N3-1	272	260	2J4	262	3F64	ql w
LrsO	206-1	1132393	1141110	1103076	112JJ26	1F77	ql w

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbI P D :	S03	D Dw&pmb Or &usb r :	8N
. PA C&SsbI P D :	S03	t A P&N C Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:J2:26	t s&s U A P usb r :	006. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
LrsO	207-1	97NN1N	993J97	960NJ7	9777J7	1F6N	ql w
LrsO	20N-1	470N349	4770102	4630N1J	47030N9	1F4N	ql w
LA&nAmb	6-1	2417N07	2J3906J	24J434J	2470406	2FJ2	ql w
RsgOr wAmb	24-2	639N34	6JJJ61	63934N	644914	1F43	ql w
RsOgsOr w r	JJ-2	3946N7	394192	3N7731	392203	0F99	ql w
RnPyeOr Omb	94-1	917176	921412	93137N	923322	0F79	ql w
RnPyeOr Omb	9J-1	13J730J	1366396	1400019	1374J73	1F64	ql w
RnPyeOr Omb	96-1	1J73971	1JJ3129	1JJ6499	1J61200	0F72	ql w
RnPyeOr Omb	97-1	N4176N	N40209	N249N7	N3J6JJ	1F11	ql w
RnPyeOr Omb	9N-1	22712J0	22N13J4	2234N96	2262J00	1F0N	ql w
u r nOyb Amb	1J0-1	20	7	60	29	96F07	ql w
u r nOyb Amb	1J0-2	3	3	0	2	N6F60	ql w
u A qkr P	60-2	40J21	39936	403J0	40269	0F7J	ql w
8hnwl hnpmw	31-2	2J67	22N4	2400	2417	JFN9	ql w
8n&swwAmb	39-2	206693	20JJ93	20J97J	2060N7	0F27	ql w
5hnOAmb	103-1	J94NJ92	612J0J6	607473J	6049461	1FJ0	ql w
5hnOAmb	103-2	2997600	2974NN2	2N70022	2947J02	2F31	ql w
SqsCOAmb	4J-1	39J1094	413J21J	4077996	40J476N	2F32	ql w
SqsCOAmb	4J-2	13904J	134J24	13742J	13699N	1F67	ql w
Sr P CAmb	N2-1	4964	J047	J042	J017	0F92	ql w
Sr P CAmb	77-2	1J3	167	137	1J2	9FN7	ql w
Sr P CAmb	7N-2	600	JJ0	490	J47	10F07	ql w
SA A qnC	2N-1	471921	J06J72	J21704	J00066	JF10	ql w
SA P r p	107-1	34163J	34337J	342474	34249J	0F2J	ql w
SA P r p	109-1	32672J	334139	333307	331390	1F23	ql w
SnOAmb	23-2	1149901	1140J37	11J2373	1147604	0FJ4	ql w
S&nC&Amb	N6-1	1937263	200327J	1972N36	197112J	1F6N	ql w
S&nC&Amb	NN-1	1640644J	16N7J9N7	16906606	16729679	1F6N	ql w
Sm P mp	34-1	376769	376021	37277J	37J1NN	0FJ7	ql w
i r peAmb	1J9-1	N212N11	N36N134	N270J26	N2N3N24	0F9J	ql w
i r peAmb	1J9-2	3674N77	36746JN	3732N71	3694136	0F91	ql w
i hs P Amb	203-1	264222	26692J	26N964	266704	0FN9	ql w
i hs P Amb	20J-1	644614	6J6933	640J9N	6473N2	1F31	ql w
i A C	11N-1	210NJ6	213790	2102J0	211632	0FN9	ql w
i A&sCAmb	47-1	37427J	37432J	374617	37440J	0F0J	ql w
M psCAmb	23N-1	N90904	90N717	NN3604	N9440N	1F44	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbIP D :	S03	D Dw&pmb Or &usb r :	8N
. PA C&SsbIP D :	S03	t A P&nC Usq&ap:	1
t s& T i A o r cqdm A r O:	2023-07-14 13:J2:26	t s&sUA P usb r :	006. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
VsCsOAmb	J1-2	614JN	60644	J9NJ1	606J1	1F32	ql w
Y&pe Amb	172-1	67	J0	2J	47	44F41	ql w
Y&pe Amb	172-2	J0	22	17	30	60F27	ql w
Y&pe Amb	176-1	2200	2092	2234	217J	3F41	ql w
Y&pe Amb	176-2	9NN7	104J4	10410	102J0	3F0N	ql w
Y&pAmb	N9-1	109NJ061	1116694N	110JJ142	110690J0	0FN3	ql w
Y&pAmb	N9-2	1201679	1204432	1223329	1209N13	0F97	ql w
ZACq	66-2	141916	14040J	139021	140447	1F03	ql w
ZAqnCAmb	90-1	4464J2	4JNN91	44JN67	4J0403	1F63	ql w
ZAqnCAmb	91-1	99706	103164	100277	101049	1FN3	ql w

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LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse Ssb l P D :	S04	D Dw&pmb Or &usb r :	8N
. PA C&Ssb l P D :	S04	t A P&A C Usq&ap:	1
t s& T i A r cqdm A r O:	2023-07-14 13:JJ:24	t s&s U A P usb r :	007. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
c P mb A C A mb	27-2	104720	104723	1033J1	10426J	0F76	ql w
c C&b nC9	121-1	632070	644661	64N2N1	641670	1F33	ql w
cpwr C A q	7J-2	1776J	1772y	17N03	17766	0F21	ql w
Bsp A mb	13J-1	6y2N0y	6y147J	6yy032	6y443y	0FJN	ql w
Bsp A mb	137-1	1220JJ6	121JNN0	121N3y7	121N27N	0F1y	ql w
Br p9P A mb	y-1	1N07NJ	1N232J	1N127y	1N1463	0F43	ql w
B A mb m&a	20y-1	J4N6NyJ	J3y704y	JJJN722	J4N0NNy	1F4N	ql w
B A mb m&a	20y-2	2NJ3420	2y01220	27N7J4J	2N473yJ	2F00	ql w
Bpmb A Or	N1-1	3NN4	3N17	3300	3667	NF71	ql w
. sOb A mb	10N-1	13603	12NJ2	1366y	1337J	3F3y	ql w
. sOb A mb	106-1	20424	21N10	206y1	20y7J	3FJ1	ql w
. sOb A mb	111-1	16y6y7	1711N0	170362	170413	0F44	ql w
. sPq A mb	43-1	21y0J0	21yJJJ	2161y4	21N266	0FN3	ql w
. sPq A mb	44-1	3J1124J	3JN4J4y	3J0y70N	3J3J16N	1F21	ql w
. spenC	12-1	26y3y27	274470y	274N670	272y102	1F12	ql w
. spenC	12-2	33230	341yy	3340J	33611	1FJ4	ql w
. hPmpA Or	3J-1	173Ny2	17J0y0	17464J	174J42	0F3J	ql w
. hPmpA Or	3J-2	1417	1317	1267	1333	JF73	ql w
. hpmb A mb	J2-2	1yJy77	1y3N64	1y2yy4	1y427y	0F7y	ql w
. nesR&	Jy-2	3J1J40	3J4233	344647	3J0140	1F41	ql w
. nI l r p	63-2	2yJ4N20	2y363J0	2NyJN47	2y2y006	1F03	ql w
t 9wl pnw A mb	1J6-1	J0	42	17	36	4NF03	ql w
t 9wl pnw A mb	1J6-2	33	30	33	32	JFy7	ql w
Epe A mb	164-1	JN	JN	N	42	6yF2y	ql w
Epe A mb	164-2	13	17	20	17	20F01	ql w
GsOnFA C A mb	160-1	133	1JN	42	111	JJF2N	ql w
GsOnFA C A mb	160-2	143	107	133	12N	14FN3	ql w
HnP b A mb	16J-1	7yy11Jy	7yy2733	N01yyy1	N0012y4	0F20	ql w
HnP b A mb	16J-2	377N6N2	37y6747	371y0JJ	3764N2N	1F0N	ql w
D C O A mb	11J-1	601JyNy	JyJ3N61	600322N	Jyy1026	0FJJ	ql w
D C O A mb	11J-2	y02N1y	NyJ336	NN7041	NyJ06J	0FNN	ql w
D pnC	J4-2	446736	43N730	4427y6	4427J4	0Fy0	ql w
D pnC	J6-2	N317640	N216671	N2N0N1N	N271710	0F62	ql w
D pnC	J7-2	20117N	1yNy1J	1y761J	1yy236	0Fy0	ql w
Kp9l &aC	N3-1	2y2	237	2J1	260	10Fyy	ql w
LrsO	206-1	30027y7	3002N76	3012y31	3006201	0F1y	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbIP D :	S04	DDw&pmb Or&usb r :	8N
. PAC&SsbIP D :	S04	t AP&nC Usq&ap:	1
t s& T i Ao r cqdmAr O:	2023-07-14 13:JJ:24	t s&sUAP usb r :	007. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
LrsO	207-1	2J6N12N	2600411	26160J1	2Jy4N63	0Fy4	ql w
LrsO	20N-1	11N13371	11N37001	120647y0	11y0J0J4	1F17	ql w
LA&nAmb	6-1	2377670	237y24J	2424411	23y377J	1F11	ql w
RsgOr wAmb	24-2	1612030	1J71710	1611026	1JyN2JJ	1F44	ql w
RsOgsOr w	JJ-2	yJ637y	y34403	y3646y	y42417	1F2y	ql w
RnP9eOr Omb	y4-1	22y12y6	230N2Jy	2314201	2304JNJ	0FJ2	ql w
RnP9eOr Omb	yJ-1	33601Ny	3430044	3347300	337y17N	1F32	ql w
RnP9eOr Omb	y6-1	3674N4N	36N422N	3742JyN	3700JJN	0Fyy	ql w
RnP9eOr Omb	y7-1	2076y3N	2071yy2	20J4NN2	2067y37	0FJ6	ql w
RnP9eOr Omb	yN-1	J4J463y	J4y7003	J4661NN	J472610	0F40	ql w
urnO9b Amb	1J0-1	J3	60	40	J1	1yFy2	ql w
urnO9b Amb	1J0-2	3	0	10	4	114F60	ql w
uAqkrP	60-2	yJ424	y62N7	y6431	y6047	0FJ7	ql w
8hnwl hnpmw	31-2	J701	JJy3	JJ43	J612	1F44	ql w
8n&swwAmb	3y-2	4N23y1	4N6471	47y3J3	4N273N	0F74	ql w
5hnOAmb	103-1	61026NJ	6113y6J	613J120	61172J6	0F27	ql w
5hnOAmb	103-2	2yN044N	2y03yyJ	2y24y46	2y36463	1F3J	ql w
SqsCOAmb	4J-1	402602J	410NJ4y	40042J7	4046277	1F36	ql w
SqsCOAmb	4J-2	134N0J	13JJ16	1323y4	13423N	1F22	ql w
SrPCAmb	N2-1	11yJy	122y0	1226J	12171	1FJ2	ql w
SrPCAmb	77-2	407	330	403	3N0	11F40	ql w
SrPCAmb	7N-2	1301	1340	1261	1301	3F04	ql w
SAAqnC	2N-1	NJJ7yy	y33034	y6y0yJ	y1y30y	6F30	ql w
SAPrp	107-1	N41600	N40yyy	N43703	N42101	0F17	ql w
SAPrp	10y-1	N00N6N	N11J73	N11334	N07y2J	0F76	ql w
SnOAmb	23-2	274y33y	2722yy7	27N3N01	27J2046	1F11	ql w
S&nC&Amb	N6-1	4NNN177	4Ny3100	4737472	4N3yJN3	1FN3	ql w
S&nC&Amb	NN-1	413761y2	41747470	40762J1J	412yJ3y2	1F20	ql w
SmPmp	34-1	407y4N	403J67	3yy64N	403721	1F03	ql w
i rpeAmb	1Jy-1	N321yJ0	N361y32	N16N604	N2N4162	1F23	ql w
i rpeAmb	1Jy-2	36J766y	3JyJN61	364416J	3632J6J	0FNy	ql w
i hsPAmb	203-1	6712J7	663411	66NN02	667N23	0F60	ql w
i hsPAmb	20J-1	1J6312y	167N247	1666120	163JN32	3FN7	ql w
i AC	11N-1	J14421	J2677y	J24634	J21y44	1F27	ql w
i A&sCAmb	47-1	y11N23	y20J1J	y0y7J7	y14032	0F62	ql w
MpsCAmb	23N-1	22NN142	2364yN7	23NJ320	23461J0	2F1N	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB umb er p:	LB126466	o l r ps&ap:	aswl sP
Lse SsbIP D :	S04	D0w&pmb Or &usb r :	8N
. PA C&SsbIP D :	S04	t A P&nC Usq&ap:	1
t s& T i A r cqdmA r O:	2023-07-14 13:JJ:24	t s&sUA P usb r :	007. cLSFO

8spsb r&p	Rsww	. 8S1	. 8S2	. 8S3	. 8SRrsC	. 8S5St	MCA&w
VsCsOAmb	J1-2	1477J0	14y046	144N3J	147210	1F47	ql w
Y&pe Amb	172-1	42	67	33	47	36F74	ql w
Y&pe Amb	172-2	3y	61	2N	43	3yFN4	ql w
Y&pe Amb	176-1	3N42	3NN4	40J1	3y26	2FN1	ql w
Y&pe Amb	176-2	10y27	10Nyy	1124y	1102J	1F77	ql w
Y&pA mb	Ny-1	114yy17N	11002034	110N403y	111yJ0N4	2F3N	ql w
Y&pA mb	Ny-2	1211N7y	11Ny6y0	11N234N	11y463y	1F2y	ql w
ZACq	66-2	334N3N	33J2yJ	3327yN	334311	0F40	ql w
ZAqnCAmb	y0-1	10yy13y	10y7261	110JN36	110074J	0F41	ql w
ZAqnCAmb	y1-1	237NNN	24J4J0	236330	23yNNy	2F03	ql w

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p.J	LB126466	o l r pw&mp.J	swl Pw8
Lwe:Swb l &:D :.J	S03	D0 1 &pmb Or &u wb r :J	Na
. &A C&Swb l &:D :.J	S03	t A&m&A C:Uwq&mp.J	1
t w&:T:i A&b r :c qdm&r O.J	202-70 714:1-.J3a.J23	t w&wUA&:u wb r :J	00a. cLSFO

Nwpwb r &p	Rwl l	. NS1	. NS2	. NS-	. NSRr wC	. NS5 St	MCA&
c &mb ACAmb	2 72	206a31	201-0	2013a1	20-24	1F34	ql l
c C&b nC9	12171	12364a2	12y2y-a	12ya06a	12a24y6	1F	ql l
cpl r CAq	372	-3 6	-46--	-4460	-4y36	2F03	ql l
BwpAmb	1-371	1-36340	1-yy 11	140-a1	1-a66ay	1Fay	ql l
BwpAmb	1- 71	24 14	230ay4a	231-0--	24yyaya	0F	ql l
Br p9&Amb	y71	-3-0y0	-330a2	-3 024	-33063	0F33	ql l
BAb m&a	20y71	33-30y2	33 60y	34yy1-0	33-6 -	0F 0	ql l
BAb m&a	20y72	22y4y14	2 312 6	2 3yyay	260203y	10F22	ql l
Bpmb AOr	a171	-y01	-46	-642	-6 0	3Fy4	ql l
. wOb Amb	10a71	26-y2	2 -06	26 y	26a-2	1F 1	ql l
. wOb Amb	10671	-yy23	-y6 4	-y-y1	-y66-	0F6	ql l
. wOb Amb	11171	--66 y	-4-06	-42--	-406y4	1F0-	ql l
. w&qAmb	4-71	42 --6	4-06 6	42 14	42a3 3	0F4-	ql l
. w&qAmb	4471	6y1-6y2	6y10--3	6ay2y--	6y0363-	0F16	ql l
. wpenC	1271	2 1--a4	2 61234	2 334-0	2 4--36	0Fy3	ql l
. wpenC	1272	-34a3	-362a	-46 3	-3262	1F46	ql l
. h&mpAOr	-371	16a100	1 1-y6	1 423	1 1231	1Fa0	ql l
. h&mpAOr	-372	116	12a-	11a-	1211	3F21	ql l
. hpmb Amb	3272	-y14y4	- 6a4	-a064y	-a2yy	1Fya	ql l
. new&&	3y72	0-2 2	6a0--2	6aa221	6y060a	1F6y	ql l
. nl l r p	6-72	3a-4003	36 2a2y	362122-	3 0y-32	1Fy4	ql l
t 9l l pnl Amb	13671	11	6	a-	ay	2aF64	ql l
t 9l l pnl Amb	13672	40	0	4-	31	-2F1	ql l
EpeAmb	16471	123	3	3a	a6	40F2y	ql l
EpeAmb	16472	40	20	--	-1	-2F-	ql l
GwOn&ACAmb	16071	11	100	100	106	yF12	ql l
GwOn&ACAmb	16072	11	1--	130	1--	12F30	ql l
Hn&b Amb	16371	a0yyy21	a0a0a36	y2a612	a0-646-	1F1	ql l
Hn&b Amb	16372	-100a2y	- 141 y	- 12643	-30y21a	10F0a	ql l
D0OAmb	11371	6036yy6	6142204	61201y4	6106463	0F 2	ql l
D0OAmb	11372	0y341	a6 y0-	a333y1	a11012	10Fa6	ql l
DpnC	3472	aay a6	a6a106	a302a	a6y-y-	2F2a	ql l
DpnC	3672	16310106	162ya-04	16-3323a	16-a aay	0F6	ql l
DpnC	3 72	401166	-ay1y3	-y0 -1	-y-6y	1F63	ql l
Kp9l &aC	a-71	246	230	2 1	236	3F2	ql l
Lr wO	20671	3y-1 y1	60a03aa	604 41	6020040	1F 0	ql l

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	o l r pw&apJ	swl Pw8
Lwe:Swb l &:D :J	S03	D1 &pmb Or &u wb r :J	Na
. &A C&Swb l &:D :J	S03	t A&m&A C:Uwq&apJ	1
t w&:T:i A&r :cqdmA&r O.J	202-70 714:1-JBaJ23	t w&WUA&:u wb r :J	00a. cLSFO

Nwpwb r &p	Rwl l	. NS1	. NS2	. NS-	. NSRrwC	. NS5St	MCA&
LrwO	20 71	30-yy0-	31y-021	32033y6	31461 -	1F y	ql l
LrwO	20a71	2---y-6-	2-y0y- 0	2-y212-3	2- 2--2-	1F40	ql l
LA&nAmb	671	242 3 -	2-442 2	2-yaa60	2-y02-3	1F	ql l
RwgOr l Amb	2472	-13 a64	-0a664a	-141610	-12a 0	1F1y	ql l
RwOgwOr l r	3372	20023 2	1y21030	1yy0a24	1y 14a2	2F24	ql l
Rn&eOr Omb	y471	44y2316	461y210	434y2y2	433-6 -	1F y	ql l
Rn&eOr Omb	y371	63ay3 3	6aa3a66	6a2ayy3	6 6a143	2F 2	ql l
Rn&eOr Omb	y671	266yy4	-4222a	-23461	-11361	0F34	ql l
Rn&eOr Omb	y 71	40a3a6	411a330	41303 a	411a--2	0F y	ql l
Rn&eOr Omb	ya71	10a04422	10a434-a	10y3 40y	10a6y0y0	0F -	ql l
urnO&bAmb	13071	10	-	a0	a	20F 3	ql l
urnO&bAmb	13072	-	1-	-		a6F63	ql l
uAqkr 8	6072	1y0y-2	1aa644	1a -13	1aay64	0Fy	ql l
NhnI l hnpm	-172	10-a	10462	101 0	10-40	1F4	ql l
Nn&wl l Amb	-y72	y4yy16	y22 4	y24130	y-22a0	1F64	ql l
5hnOAmb	10-71	3y y024	601412a	60-2 6a	600a640	0F43	ql l
5hnOAmb	10-72	2-141a6	2 yaa-y	2a460 y	263-0-4	11F10	ql l
SqwCOAmb	4371	-y a041	402023	-y0yy3a	-y6y41y	1F40	ql l
SqwCOAmb	4372	10y200	12y-61	1-06 6	12-0 y	yF a	ql l
Sr &CAmb	a271	24236	24432	2404-	24230	0Fa4	ql l
Sr &CAmb	72	a0-	2-	y	4	3F -	ql l
Sr &CAmb	a72	2341	234-	246y	231a	1F6	ql l
SA&qnC	2a71	122-2y4	1-3a346	142-y03	1--324a	F66	ql l
SA&vr p	10 71	1 -3 a3	1 42ya	1 6y2-6	1 3y -	1F1y	ql l
SA&vr p	10y71	1640101	1 214-1	16a60y2	16a2341	2F42	ql l
SnOAmb	2-72	3466202	34442-4	3-4003-	3416a-0	1F24	ql l
S&nC&Amb	a671	y- 33a1	y3164ay	y--a y	y4102ay	1F00	ql l
S&nC&Amb	aa71	a06y-a14	a1y-1a-y	a20 a3a	a136a0a0	0Fy-	ql l
Sm&mp	-471	46 4 6	4 -62-	4 2444	4 11a1	0F6y	ql l
i r pe Amb	13y71	a2 2yy2	a441-16	a- 41 1	a-62a2	1F01	ql l
i r pe Amb	13y72	-0-1 23	-6231a	-63-2 1	-4-6 2a	10F21	ql l
i hw&Amb	20-71	1-13 43	1-42 0	1-432y-	1--4602	1F2-	ql l
i hw&Amb	20371	-233a44	-- y3-6	--416	--236a6	1Fy1	ql l
i AC	11a71	1021322	104y411	104a6a1	10-ya 1	1F3-	ql l
i A&wCAmb	4 71	1a62064	1a40204	1a4yy63	1a30 44	0F3y	ql l
MpwCAmb	2-a71	4 1 23-	46-1a1a	4 102y4	46a6433	1F01	ql l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er p.J	LB126466	o l r pw&mp.J	swl Pw8
Lwe:Swb l &:D :.J	S03	D0 1 &pmb Or &u wb r :J	Na
. &A C&Swb l &:D :.J	S03	t A&m&A C:Uwq&mp.J	1
t w&:T:i Ab r :c qdmAr O.J	202-70 714:1-.J3a.J23	t w&wUA&:u wb r :J	00a. c LSFO

Nwpwb r &p	R wl l	. NS1	. NS2	. NS-	. NSR r wC	. NS5 St	MCA&
VwOwOAmb	3172	2y3 ya	2a313-	2a 624	2ay323	1Fy2	ql l
Y&&pe Amb	1 271	100	123	3	100	23F00	ql l
Y&&pe Amb	1 272	1	44	- -	- 1	44F41	ql l
Y&&pe Amb	1 671	641a	6 1y	6360	6366	2F2y	ql l
Y&&pe Amb	1 672	1064-	11a33	12230	113a-	F2-	ql l
Y&&pAmb	ay71	10y144-	10yyyy2y	10y- y3	10y30 4	0F40	ql l
Y&&pAmb	ay72	y3013a	112 3a	114-346	10 -a20	10F00	ql l
ZAOq	6672	662 6a	63430a	64a41y	6332-2	1F10	ql l
ZAqnCAmb	y071	2230001	2-460a	224a021	22a1-6y	2F46	ql l
ZAqnCAmb	y171	4 6-06	4y2063	4aa3 2	4a364a	1F 0	ql l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
. lient Sample ID :	S06	Dilution Uactor :	1
Date & Time Acquired :	2023-07-14 14:01:24	DataUile Name :	00C. ALSFd

Parameter	Rass	. PS1	. PS2	. PS3	. PSRean	. PS5 SD	Mnits
Aluminium	27-2	3C8C77	3C89C3	3C6039	3C7868	0F40	cps
Antimony	121-1	264186C	261C468	2633298	2631932	0F43	cps
Arsenic	79-2	68702	67973	67680	67C89	0FC2	cps
Barium	139-1	2C2C044	2897998	2C28914	2C0903C	1F42	cps
Barium	137-1	4849411	4824941	4C60483	4876812	1F90	cps
Beryllium	C-1	682276	684233	6C69C7	687702	1F13	cps
Bismuth	20C-1	9460373	9466C21	487C42C	9268C08	6F40	cps
Bismuth	20C-2	2729993	27C9099	2786343	2768C83	1F37	cps
Bromine	81-1	3626	3342	3891	3606	7F07	cps
. admium	108-1	92717	924C1	9234C	9291C	0F39	cps
. admium	106-1	73488	799CC	79319	74800	1F93	cps
. admium	111-1	696792	69771C	66832C	660C33	0FC7	cps
. alcium	43-1	82743C	843968	849347	838789	1F18	cps
. alcium	44-1	13241290	13977291	13470440	1342C647	1F28	cps
. arbon	12-1	2898C63	3036C97	3139499	301049C	4F66	cps
. arbon	12-2	3C386	40697	40923	4018C	1F74	cps
. hlorine	39-1	162CC4	169C92	16746C	169471	1F38	cps
. hlorine	39-2	1190	1133	11C2	1198	2F9C	cps
. hromium	92-2	738360	739970	727732	733887	0F79	cps
. obalt	9C-2	1326944	13296C6	1327760	1326667	0F08	cps
. opper	63-2	110C9363	108C6934	108146C9	10C39930	1F32	cps
Dysprosium	196-1	242	229	1C2	21C	11F60	cps
Dysprosium	196-2	C3	63	77	78	1CF33	cps
Erbium	164-1	98	79	198	C7	99F11	cps
Erbium	164-2	33	20	17	23	37F78	cps
Gadolinium	160-1	242	1C2	217	217	11F94	cps
Gadolinium	160-2	170	180	1C7	182	7F3C	cps
Holmium	169-1	8012398	810C494	7043430	7721747	7F63	cps
Holmium	169-2	37613C2	36C7388	37311C1	372CCC0	0F86	cps
Indium	119-1	9C8646C	9CCC708	9249246	9743807	7F92	cps
Indium	119-2	848419	848694	849323	847464	0F22	cps
Iron	94-2	1781192	1807899	17800C3	178C700	0F88	cps
Iron	96-2	31784387	31916C18	31931CC7	31611101	0F48	cps
Iron	97-2	76121C	79C901	793673	798131	0F92	cps
Krypton	83-1	227	284	267	260	11F19	cps
Lead	206-1	1193782C	119C2734	121027C9	11744493	2F69	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
. lient Sample ID :	S06	Dilution Uactor :	1
Date & Time Acquired :	2023-07-14 14:01:24	DataUile Name :	00C. ALSFd

Parameter	Rass	. PS1	. PS2	. PS3	. PSRean	. PS5 SD	Mnits
Lead	207-1	10009616	OC89103	10193C78	10048232	0FC2	cps
Lead	208-1	49C83C38	49768979	4790C344	4642061C	2F04	cps
Lithium	6-1	2337083	2319726	2192714	2268908	4F49	cps
Ragnesium	24-2	607216C	6087670	6034693	6064831	0F49	cps
Ranganese	99-2	3846639	3767688	3801387	3809236	1F04	cps
Rolybdenum	C4-1	C084836	8C37018	8843316	8C99097	1F36	cps
Rolybdenum	C9-1	13402637	13397383	130190C6	13298372	1F60	cps
Rolybdenum	C6-1	143C3932	14739397	14630332	14986407	1F20	cps
Rolybdenum	C7-1	7879919	8013180	8073682	7C8749C	1F27	cps
Rolybdenum	C8-1	20733896	21937897	212C8143	2118OC92	1FC9	cps
Neodymium	190-1	133	167	160	193	11F90	cps
Neodymium	190-2	17	20	10	16	32F73	cps
Nickel	60-2	363778	363004	364OC3	363C29	0F28	cps
Phosphorus	31-2	20482	20769	21490	208OC	2F38	cps
Potassium	3C-2	1863063	1889668	1897486	186873C	0F80	cps
5hodium	103-1	9C06909	603423C	9189042	97089C9	8F02	cps
5hodium	103-2	2731068	2712147	2782613	2741C43	1F33	cps
Scandium	49-1	3866491	4001170	33C6940	3794720	8F49	cps
Scandium	49-2	128791	129631	128603	127662	1F38	cps
Selenium	82-1	46C89	46C38	47741	47221	0FC9	cps
Selenium	77-2	1390	14C3	1467	1437	9F31	cps
Selenium	78-2	47C1	4C17	466C	47C3	2F9C	cps
Silicon	28-1	22878C4	298442C	2693332	2908992	7F74	cps
Silver	107-1	33C862C	3472797	3919C24	3462437	1F71	cps
Silver	10C-1	3247C68	31C0008	32OC09C	3249678	1F68	cps
Sodium	23-2	10363193	104761C1	10283080	10374141	0FC4	cps
Strontium	86-1	18709022	188142C7	1C029C12	18848410	0F87	cps
Strontium	88-1	1603C8920	1980C0698	1614C3924	19OOC4234	1F0C	cps
Sulfur	34-1	9C2327	98C841	9C4318	9C2162	0F38	cps
Terbium	19C-1	8314044	860711C	740364C	8108271	7F74	cps
Terbium	19C-2	3990C33	3987047	3623800	3987260	1F02	cps
Thallium	203-1	27OC249	2801936	2C12723	2837839	2F2C	cps
Thallium	209-1	63C6236	6436068	6646780	64C3028	2F07	cps
Tin	118-1	2116094	20C8660	2129C61	2113998	0F69	cps
Titanium	47-1	3934248	3607830	34C3C7C	3949392	1F63	cps
Mranium	238-1	C09C204	8C68931	C37C133	C139623	2F36	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
. lient Sample ID :	S06	Dilution Uactor :	1
Date & Time Acquired :	2023-07-14 14:01:24	DataUile Name :	00C. ALSFd

Parameter	Rass	. PS1	. PS2	. PS3	. PSRean	. PS5 SD	Mnits
Vanadium	91-2	994331	99C762	9647C3	99C628	0FC3	cps
Ytterbium	172-1	108	108	129	114	8F49	cps
Ytterbium	172-2	90	61	61	97	11F17	cps
Ytterbium	176-1	11C64	12181	11822	11C8C	1F91	cps
Ytterbium	176-2	14180	14698	143C7	14412	1F66	cps
Yttrium	8C-1	11003284	10C11C21	C796880	10997362	6F98	cps
Yttrium	8C-2	112447C	1132621	1129871	1127697	0F3C	cps
Zinc	66-2	1273243	129626C	1244430	1297C81	1F19	cps
Zirconium	C0-1	4414621	4373270	4439879	4407C22	0F72	cps
Zirconium	C1-1	C64CC7	C3C978	C69348	C96641	1F94	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	202- 703714 14:04:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Aluminium	2372	346631	341859	323585	3- 8305	1.- 4	cps
Antimony	12171	511- 385	511316-	509- 922	5108290	0.25	cps
Arsenic	3572	129156	1235- 4	125- 64	123- 51	1.49	cps
Barium	1- 571	56- 5014	5488083	55463- 3	555661-	1.- -	cps
Barium	1- 371	961124-	9435144	9429188	9505192	1.00	cps
Beryllium	971	1- - 4201	1- 69663	1- 4- - 29	1- 49066	1.- 3	cps
Bismuth	20971	5181139	5416652	5289104	5295645	2.2-	cps
Bismuth	20972	2519115	2- 62029	2505905	2462- 50	- .54	cps
Bromine	8171	- 509	- 692	- 501	- 563	- .04	cps
Cadmium	10871	99129	1024- 1	100056	1005- 9	1.69	cps
Cadmium	10671	14040-	14125-	1- 9193	140284	0.34	cps
Cadmium	11171	1262109	1256452	1282448	126300-	1.08	cps
Calcium	4- 71	1319985	13- 9990	1323366	1329243	0.58	cps
Calcium	4471	25940- 39	26- 99126	2548- 295	259409- -	1.33	cps
Carbon	1271	29180- 4	2919515	2925- 06	2920952	0.1-	cps
Carbon	1272	- 31- 1	- 3341	- 3081	- 3- 13	0.98	cps
Chlorine	- 571	160929	163882	166- 40	165050	2.21	cps
Chlorine	- 572	1035	128-	1258	1206	9.44	cps
Chromium	5272	1488060	1435256	1424514	1462610	2.- 0	cps
Cobalt	5972	2643163	2692906	24325- 5	260420-	4.43	cps
Copper	6- 72	203853- 6	20418069	1999- 839	20- 99228	1.94	cps
Dysprosium	15671	235	292	235	281	- .4-	cps
Dysprosium	15672	16-	18-	193	181	9.26	cps
Erbium	16471	150	63	100	106	- 9.34	cps
Erbium	16472	50	2-	- -	- 6	- 3.90	cps
Gadolinium	16071	- - -	458	- 92	- 94	15.86	cps
Gadolinium	16072	260	24-	193	2- -	14.03	cps
Holmium	16571	8010929	8298393	3998684	810280-	2.10	cps
Holmium	16572	- 499393	- - 054- 9	- - 94653	- - 99964	2.86	cps
Indium	11571	5690160	5854011	582- - 35	5389182	1.50	cps
Indium	11572	368689	323413	363436	354523	- .11	cps
Iron	5472	- - 54- 64	- - 94- 0-	- 201023	- - 16565	- .08	cps
Iron	5672	59369253	5959- 890	5323- 255	58838801	2.- 3	cps
Iron	5372	15500- 1	1521216	1432912	1514320	2.53	cps
Krypton	8- 71	216	231	2- 5	241	11.61	cps
Lead	20671	2- 18- 580	2- 84- 810	2- - 09505	2- 4456- 2	1.50	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	202- 703714 14:04:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Lead	20371	19824390	19900349	2012384-	19951123	0.39	cps
Lead	20871	911518- 2	9- 023- 53	918- 3334	92005654	1.0-	cps
Lithium	671	228035-	22380- 0	2225531	2261451	1.- 8	cps
Magnesium	2472	11493063	1129356-	11064159	1128626-	1.92	cps
Manganese	5572	3142283	3192085	692- 996	308612-	2.01	cps
Molybdenum	9471	133- 1062	13- 583- 8	13363558	13619119	1.28	cps
Molybdenum	9571	26264031	26250663	26- 30539	26295106	0.25	cps
Molybdenum	9671	28256- 33	28580916	28520019	284524- 3	0.61	cps
Molybdenum	9371	156969- 1	15882581	15641951	15340488	0.80	cps
Molybdenum	9871	41684148	41399464	41315612	413- - 035	0.14	cps
Neodymium	15071	- 03	263	223	263	15.00	cps
Neodymium	15072	23	13	13	20	28.86	cps
Nickel	6072	680- 94	68- 662	658308	634255	2.01	cps
Phosphorus	- 172	- 8920	40515	- 8369	- 9401	2.46	cps
Potassium	- 972	- 491499	- 429898	- - 83865	- 4- 6421	1.52	cps
Rhodium	10- 71	56688- 6	5582059	539- 503	5681463	1.83	cps
Rhodium	10- 72	2555- 04	24- 639-	2483446	249- 181	2.- 9	cps
Scandium	4571	- 336631	- 8- 6220	- 389189	- 80069-	0.8-	cps
Scandium	4572	113546	11- - 98	120- 60	113101	2.99	cps
Selenium	8271	9044-	91256	91260	90986	0.52	cps
Selenium	3372	2653	28- 4	2303	23- -	- .- -	cps
Selenium	3872	9096	8962	8860	8932	1.- 2	cps
Silicon	2871	- 254050	- 264535	- 265005	- 261210	0.19	cps
Silver	10371	6628804	662- 008	6503262	6586- 58	1.04	cps
Silver	10971	6199- 42	628- 268	6222959	62- 5190	0.69	cps
Sodium	2- 72	19819489	1995209-	1920- 555	19658- 39	2.0-	cps
Strontium	8671	- 69- - 182	- 3- 39330	- 59984- -	- 6330462	1.92	cps
Strontium	8871	- 20- 20882	- 18824990	- 11- 35465	- 16840446	1.51	cps
Sulfur	- 471	843- 08	850391	8- 8039	845- 9-	0.38	cps
Terbium	15971	8091251	8- - 8940	8125335	8185- 22	1.64	cps
Terbium	15972	- - 19085	- 205120	- - 49393	- 291- - 4	2.- 2	cps
Thallium	20- 71	5413254	5699802	5560915	5559- 24	2.54	cps
Thallium	20571	123- 3354	1- 4- 6966	12382050	12985590	- .02	cps
Tin	11871	4120806	4181538	4098063	41- - 484	1.04	cps
Titanium	4371	68- 0- 18	6944346	69- - 432	6902845	0.91	cps
Uranium	2- 871	18188- 13	18- - 8946	18- 4- 43-	18290245	0.48	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	202- 703714 14:04:24	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS-	CPSMean	CPSRSD	Units
Vanadium	5172	1030004	1032222	10463- -	1062986	1.- -	cps
Ytterbium	13271	125	142	142	1- 6	3.03	cps
Ytterbium	13272	63	8-	32	34	11.46	cps
Ytterbium	13671	22920	2- 655	2- 943	2- 508	2.25	cps
Ytterbium	13672	19014	18146	13829	18- - 0	- .- 5	cps
Yttrium	8971	10895819	10655562	10698368	10350049	1.19	cps
Yttrium	8972	1044669	1002324	104842-	10- 19- 9	2.46	cps
Zinc	6672	2461225	2428229	24- 0931	2440142	0.35	cps
Zirconium	9071	8330612	8591391	8580420	8643603	1.2-	cps
Zirconium	9171	1934515	1961088	193508-	1930229	0.40	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	Operstor:J	aswl sP
Lsb:SsmpPe:ID:J	S03	Inwtrumnet:Nsme:J	83
CPent:SsmpPe:ID:J	S03	DiPition:Fsctor:J	1
Dste:&:Time:Acquired:J	202-70 714:14J0 J2-	DstsFiPe:Nsme:J	011CALS.d

8srsmeter	Mswv	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
APminium	2 72	-459154	-44-395	-95 002	-912013	2.22	cpw
Antimony	12171	-0-4	2-05	4063	-1-	23.15	cpw
Arwenic	972	116	1	99	31	-5.20	cpw
Bsrium	1-971	44-9	-190	96-6	440	23.20	cpw
Bsrium	1- 71	3-93	5-25	10-1	5--4	10.90	cpw
BeryPium	571	2-5	149	56	-5-	35.91	cpw
Biwmuth	20571	4923313	49 1 93	44 14-	4929506	1.09	cpw
Biwmuth	20572	2169609	215-4 1	2155 34	213623	0.3-	cpw
Bromine	3171	4-52	4305	4-34	4925	9.-	cpw
Csdmium	10371	142	104	1--	126	19.93	cpw
Csdmium	10671	2505	2500	-100	25 0	-.31	cpw
Csdmium	11171	2304	240	-12-	2 3	12.50	cpw
CsPcium	4-71	690-946	69 52-1	64-04 -	6904416	1.14	cpw
CsPcium	4471	109 22019	103 91904	1095 0936	106314 02	1.9	cpw
Csrbon	1271	2 41- 4	2 -6640	2 5 - 3	2 93464	1.22	cpw
Csrbon	1272	-3295	-3565	-5 6-	-355	1.5-	cpw
ChPorine	-971	166455	1 1204	1 --94	1 0-92	2.06	cpw
ChPorine	-972	1-3-	1-00	14 9	1-36	6.-1	cpw
Chromium	9272	31-6	3212	3162	31 0	0.43	cpw
CobsPP	9572	6-99	96-3	9663	933	6.35	cpw
Copper	6-72	19099	1012	599	11930	26.11	cpw
Dywprowium	19671	1093	1093	1003	1042	2.	cpw
Dywprowium	19672	4 0	460	910	430	9.91	cpw
Erbium	16471	190	193	229	1 3	2-.12	cpw
Erbium	16472	6-	9	5	2	25.6	cpw
GsdoPnium	16071	1252	11--	53-	11-6	1-.9	cpw
GsdoPnium	16072	600	930	6 -	613	.59	cpw
HoPnium	16971	11-443	1--616	039513	110554	0.-4	cpw
HoPnium	16972	-131 16	-054500	-1 6101	-190509	1.94	cpw
Indium	11971	911 -55	9-23305	90199--	919-514	-.10	cpw
Indium	11972	15 62	03-34	-2140	20059	1.69	cpw
Iron	9472	14125-64	1- 55 55	14942243	1419 1-	2.6-	cpw
Iron	9672	2613 691	299 6-400	2 0405-90	26263-035	2.30	cpw
Iron	9 72	6449141	692-405	6650-31	69925	1.51	cpw
Krypton	3-71	210	245	290	2-6	5.62	cpw
Lesd	20671	1-264	513	15024	1-329	-9. 9	cpw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	Operstor:J	aswl sP
Lsb:SsmpPe:ID:J	S03	Inwtrumnet:Nsme:J	83
CPent:SsmpPe:ID:J	S03	DiPtion:Fsctor:J	1
Dste:&:Time:Acquired:J	202-70 714:14J0 J2-	DstsFiPe:Nsme:J	011CALS.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Lesd	20 71	1005	1-136	16 00	1--2	24. 5	cpw
Lesd	20371	4 191	41904	626	945 4	--.5-	cpw
Lithium	671	20-0930	153-492	153 290	200042	1.-1	cpw
Msgnewium	2472	4549 64-	45695544	905901-2	900229 -	1.62	cpw
Msngsnewe	9972	146	9639	4361	935	15.62	cpw
MoPybdenum	5471	6335	-934	12 9	45	60.03	cpw
MoPybdenum	5971	5291	4-26	195 3	5392	95.-	cpw
MoPybdenum	5671	1091-	91 6	15165	11615	60. 3	cpw
MoPybdenum	5 71	6025	2495	10603	6-69	64.13	cpw
MoPybdenum	5371	16133	6 63	2995-	1613-	93.16	cpw
Neodymium	19071	1 -	1 -	10	191	29.4	cpw
Neodymium	19072	4-	6	6-	93	21.39	cpw
NickePP	6072	--	-1 0	-1-0	-226	4.10	cpw
8howphoruw	-172	11	11	193	1-1	13.4-	cpw
8otswwium	-572	19910040	196 4 -9	19505021	1965 5-2	1.23	cpw
Rhodium	10-71	4 3-4 -	4511122	4 553-9	43-14 6	1.44	cpw
Rhodium	10-72	2219543	21 31-1	22 1216	2221 69	2.11	cpw
Scsndium	4971	--09666	-4--299	-41599	--36195	2.0	cpw
Scsndium	4972	105236	105 -6	1121 4	110-55	1.41	cpw
SePenium	3271	436	430	921	456	4.43	cpw
SePenium	72	2-	10	1	1	-5.55	cpw
SePenium	372	1	99	63	69	1-.19	cpw
SiPcon	2371	904163	934-05	95 323	962102	5.01	cpw
SiPver	10 71	552	5 9	1042	100-	-.46	cpw
SiPver	10571	352	51	500	50-	1.41	cpw
Sodium	2-72	3 63-052	3 4-2321	502692-1	33460-31	1.	cpw
Strontium	3671	222-0	-9-4	293-4	1 155	65.60	cpw
Strontium	3371	1122	26413	202150	11-623	.-9	cpw
SuPur	-471	2540 2	23 635	252-60	251- 4	1.1-	cpw
Terbium	19571	442131	43693	6539 14	-0432	-.30	cpw
Terbium	19572	-0392-0	-04 696	-0 --63	-063 91	0.6-	cpw
ThsPum	20-71	2113	11 9	-910	226	91.30	cpw
ThsPum	20971	493	296	3 60	9-09	95.94	cpw
Tin	11371	-142	2952	41 6	--04	24.-9	cpw
Titsnium	4 71	12 9	42	-360	1595	39.1-	cpw
Ursnium	2-371	-1-9	2-5-	111 6	9963	3 .45	cpw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:Number:J	LB126466	Operstor:J	aswl sP
Lsb:SsmpRe:ID:J	S03	Inwtrumnet:Nsme:J	83
CRent:SsmpRe:ID:J	S03	DiRtion:Fsctor:J	1
Dste:&:Time:Acquired:J	202- 70 714:14J0 J2-	DstsFiRe:Nsme:J	011CALS.d

8srsmeter	Msww	C8S1	C8S2	C8S-	C8SMesn	C8SRSD	Unitw
Vsnsdium	9172	9 -	- -	21	- 33	46.10	cpw
Ytterbium	1 271	103	100	3-	5	1- .05	cpw
Ytterbium	1 272	106	61	96	4	- .00	cpw
Ytterbium	1 671	111	101	590	1023	3.16	cpw
Ytterbium	1 672	3- 93	965	3505	32 5	3.1-	cpw
Yttrium	3571	5469 13	5 - 3452	5- 05 63	5904695	2.23	cpw
Yttrium	3572	53453-	566- 44	55- - 2-	531990	1.41	cpw
Zinc	6672	635-	9 31	95- 1	6202	5. 2	cpw
Zirconium	5071	4463	- - 34	- - 3	906-	40.- 9	cpw
Zirconium	5171	2256	00	1 95	1939	91.24	cpw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJa	LB126466	n t plwTClJa	swl Pw8
Lwr JDwe t &p.JS&JaJ	S)3-76	S l Tlbe . pTJmwe pJa	Nu
0 &p. TJDwe t &p.JS&JaJ	S)3-76	&&bTcC. JJJwdTClJa	1
&wTpJ JAce pJqdCbdpoJa	2-2 :-7:14J14a2-a12	&wTwJc&p.Jmwe pJa	-12S)3Fo

NwIwe pTpl	R wl l	0 ND1	0 ND2	0 ND	0 NDR pw.	0 ND5 D&	M. cT
q&be c cbe	27:2	22 92	22242	227 2	224yy	1F12	dt l
q. Tce C. h	121:1	1-1422y	1-2uu2-	1-y11 u	1- 1 9y	1Fu-	dt l
qll p. cd	7y:2	29 99	- - -	296u4	297-4	1F-6	dt l
Bwlcbe	1 y:1	11 u6-	11 74	11y67y	114426	-F9y	dt l
Bwlcbe	1 7:1	1947 y	19u141	2-1 64	19u-u-	1F67	dt l
Bplh&bbe	9:1	147 u2	1y- 97	1477-9	14u496	1F11	dt l
Bdc e bTE	2-9:1	yy61 21	yyy 269	yyuu41-	yy67667	-F	dt l
Bdc e bTE	2-9:2	2u97y1y	2947661	27947- -	2u799y9	2F71	dt l
BlCe c p	u1:1	617	u 4	4u4	64y	4Fuy	dt l
0 woe cbe	1-u:1	u619	uu9-	9-u2	uu64	2F62	dt l
0 woe cbe	1-6:1	1y267	1y976	16126	1y79-	2F91	dt l
0 woe cbe	111:1	1 u-6y	14-221	1444y6	14-914	2F 1	dt l
0 w&lcbe	4 :1	-12y	1-62	-74	-64	1Fyy	dt l
0 w&lcbe	44:1	y2621	y y997	y 7u47	y y2	1F17	dt l
0 wlr C.	12:1	267262	26 69u7	264177u	26y-462	-F7	dt l
0 wlr C.	12:2	u-6	242-	2679	296u	2F24	dt l
0 E&Clc p	y:1	19462-	2- - 719	2- - 921	19u7y	1Fu-	dt l
0 E&Clc p	y:2	1467	1y-u	1yy-	1y-u	2F76	dt l
0 ElCe cbe	y2:2	16-4-6	161 47	1617-9	1611y4	-F42	dt l
0 Cr w&T	y9:2	291yy	292y1u	292y79	292217	-F2-	dt l
0 Ct t pl	6 :2	2267y7	22u422	2 -126	22u4 y	-F74	dt l
&hl t lCl cbe	1y6:1	u	u	u	u	-F- -	dt l
&hl t lCl cbe	1y6:2	-		1-	4	114F6-	dt l
Glr cbe	164:1	17	42	67	42	6-F- -	dt l
Glr cbe	164:2	2	27	17	22	22F91	dt l
HwoC&c cbe	16-:1	7y	1-u	92	92	1uF1u	dt l
HwoC&c cbe	16-:2	14-	12-	1	1 1	7F77	dt l
KC&e cbe	16y:1	u292y74	u2-2 y2	u121 19	u2-y41y	1F-4	dt l
KC&e cbe	16y:2	7u6 29	uy7y74	797u- -	u1 9-1	1F- -	dt l
S ocbe	11y:1	61u- 72	6 146u7	617667u	622 912	1F26	dt l
S ocbe	11y:2	916y 7	9 1 76	912199	92- - 7	1F-9	dt l
S&C.	y4:2	146u92	14u yu	14u u6	147u7u	-Fyu	dt l
S&C.	y6:2	269u244	272 62	27479-u	272 2y9	-F91	dt l
S&C.	y7:2	6 1	64 7u	6y49y	64 9y	1F69	dt l
glht TC.	u :1	24y	2y1	246	247	1F 4	dt l
Lpwo	2-6:1	966u2u	974 64	97yuyy	972 49	-Fy-	dt l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r plJa	LB126466	n t plwTClJa	swl Pw8
Lwr JDwe t 8pJS&JaJ	S)3-76	S l Tlbe . pTJmwe pJa	Nu
0 8p. TDwe t 8pJS&JaJ	S)3-76	&8bTcC. JJwdTClJa	1
&wTpJ JAce pJqdCbdpoJa	2-2 :-7:14J14a2-a12	&wTwJc8pJmwe pJa	-12S)3Fo

NwIwe pTpl	Rwl l	0 ND1	0 ND2	0 ND	0 NDRpw.	0 ND5 D&	M. dT
Lpwo	2-7:1	u1-u u	u12y7y	u2u 91	u1726u	1F1u	dt l
Lpwo	2-u:1	9274 4	4--1177	4-yu-4u	99yyy	1F64	dt l
LdEdbe	6:1	24u4u7	24yuuy2	2444y4u	24627yu	-Fu	dt l
Rwk. pl dbe	24:2	149y-4	14676u	14y9y4	1474-u	1F26	dt l
Rw. kw. pl p	yy:2	7u6-y	7u474	7u29-	7u4y7	-F2-	dt l
RC8hr op. be	94:1	17-9	1uy9	162y	17 1	6Fu	dt l
RC8hr op. be	9y:1	2 y9	2 2y	2 67	2 y-	-F94	dt l
RC8hr op. be	96:1	2y42	2u17	26--	26y	yF46	dt l
RC8hr op. be	97:1	1y--	1 17	1 yu	1 92	6F91	dt l
RC8hr op. be	9u:1	6 4	4-26	u76	u4y	yF14	dt l
mpCohe dbe	1y-:1	1	7	7	9	4 F2y	dt l
mpCohe dbe	1y-:2		-	-	1	17 F21	dt l
mdvp8	6-:2	u497y	u6uy	u 694	uy174	1Fu7	dt l
NEDl t EDlbl	1:2	12y	1y-	12y	1	1-Fu	dt l
NCTwl l dbe	9:2	161616	16y44	162627	16 229	1F21	dt l
5 EDodbe	1- :1	62y2 62	62y6761	621u-u-	62424-1	-F 4	dt l
5 EDodbe	1- :2	29uy-6u	-67-69	2971294	--7u1-	1F72	dt l
Ddw. odbe	4y:1	412-y y	4-64u-	412-17-	41-1u 6	-F7u	dt l
Ddw. odbe	4y:2	1 92yu	1 9--7	1 6 67	1 u211	1F16	dt l
Dp8p. dbe	u2:1	2---1	2-461	2-147	2-2-	1F16	dt l
Dp8p. dbe	77:2	697	6 -	69-	672	yF46	dt l
Dp8p. dbe	7u:2	2244	217y	22-y	22-u	1Fy7	dt l
D8dC.	2u:1	22691y	2 -yu2	2 6-u4	2 1194	2F-	dt l
Dd8pl	1-7:1	261-9	7967	424 7	yy-4	2Fy1	dt l
Dd8pl	1-9:1	266yy	27uy6	27262	272yu	-F1u	dt l
DCodbe	2 :2	472-97	4672--	46y667	46u 21	-F72	dt l
DTC. Tbe	u6:1	1u4	2717	297y	29y9	7F91	dt l
DTC. Tbe	uu:1	226u1	2-642	242-y	22y1-	7F94	dt l
Db8Vl	4:1	29 -	u-29	714	6- 4	-Fu1	dt l
ApIr dbe	1y9:1	u 1yu 9	uy22-96	u 27u-7	u uuyu1	1F u	dt l
ApIr dbe	1y9:2	7291 -	67u272	741777	716 9	-F9-	dt l
AEw8bbe	2- :1	119yuu7	1214 79	12- y9u	12-4621	-F77	dt l
AEw8bbe	2-y:1	29664u4	-u -1-	-1491u	-21471	1F94	dt l
Ac	11u:1	1yy-	1y42	1yy-	1y47	-F 1	dt l
AcTw. dbe	47:1	7y-	792	yyu	7--	17F7u	dt l
MIw. dbe	2 u:1	1242	127y	12u	1267	1F74	dt l

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBJmbe r pIJa	LB126466	n t pIwTCIJa	swI Pw8
Lwr JDwe t 8pJS&JaJ	S)3-76	S I Tbe . pTJmwe pJa	Nu
0 8p. TJDwe t 8pJS&JaJ	S)3-76	&cbTcC. JJwdTCIJa	1
&wTpJ JAce pJqdCbcdpoJa	2-2 :-7:14J14a2-a12	&wTwUc8pJmwe pJa	-12S)3Fo

NwIwe pTpI	RwI I	0 ND1	0 ND2	0 ND	0 NDRpw.	0 ND5 D&	M. cT
3w. wocbe	y1:2	11u9y6	1192 2	11u-y6	11u74u	-Fy2	dt I
YTTpIr cbe	172:1	92	7y	67	7u	16F 7	dt I
YTTpIr cbe	172:2	2u	44	2u		2uFu7	dt I
YTTpIr cbe	176:1	92y	1-7y	1-yu	1-2-	uF-6	dt I
YTTpIr cbe	176:2	1-4-4	9uu2	1-26-	1-1u2	2F6y	dt I
YTTrcbe	u9:1	111u9629	1122 uyy	11 u22 9	1126y241	-F91	dt I
YTTrcbe	u9:2	1226149	12 24u4	12-y7y	1221462	1F14	dt I
Zc d	66:2	y4264	y27u1	yy 64	y41 6	2F 9	dt I
ZdcdC. cbe	9-:1	1267	1217	1192	122y	F12	dt I
ZdcdC. cbe	91:1	17	7y	42	44	uFy-	dt I

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	n t pIwTCI:J	swI Pw8
Lwr :Dwe t 8p:S&:J	S0 B3- 6	S I TIbe . pT:mwe p:J	Nu
0 8p. TDwe t 8p:S&:J	S0 B3- 6	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2327 3- 14:14:J27:Ja1	&wTwMt8p:mwe p:J	3170 0 BFUb

NwIwe pTpI	5 wI I	0 ND1	0 ND2	0 ND7	0 ND5 pw.	0 ND9 D&	R. dT
q8be c dbe	2- 2	172	13-	171	124	11U7u	dt I
q. Tde C. y	121 1	6h2	66-	61-	6au	aUu3	dt I
qII p. dd	- a 2	h	13	a	u	77U3-	dt I
BwIdbe	17a 1	16-	2a3	177	1u7	72Uu	dt I
BwIdbe	17- 1	777	242	26-	2u1	16Uuh	dt I
Bply8dbe	h 1	13h	13a	136	13-	1Uh	dt I
Bdde bTE	23h 1	aa33443	a474u3h	a4a4h23	a4677h3	3U62	dt I
Bdde bTE	23h 2	2uha22u	2u444h1	2h1a- 4u	2uua1a6	1U2-	dt I
BIDe c p	u1 1	7- 42	4142	41- 6	4323	6U33	dt I
0 woe dbe	13u 1	46	21	7u	7a	76U66	dt I
0 woe dbe	136 1	773h	72- a	712a	727-	7U32	dt I
0 woe dbe	111 1	2742	27- 3	2272	271a	7U14	dt I
0 w8dbe	47 1	726	731	743	722	6U3h	dt I
0 w8dbe	44 1	43a22	7h- ua	7hu6-	433au	1U31	dt I
0 wIr C.	12 1	246h37u	24- 21h4	247hh26	24637u6	3U2	dt I
0 wIr C.	12 2	71377	2h6aa	737hh	73762	2U2-	dt I
0 E8DIc p	7a 1	16uah-	1- 334u	16h424	16h7a6	3U47	dt I
0 E8DIc p	7a 2	1742	12au	1433	1777	aU74	dt I
0 EIDe dbe	a2 2	11a7	11- 7	13h7	1143	7U6a	dt I
0 Dr w8T	ah 2	1- 7	h-	123	173	73U27	dt I
0 Dt t pI	67 2	12- -	11- 7	113-	11u6	- U27	dt I
&yI t IDI dbe	1a6 1	2a	u	1-	1-	a3U31	dt I
&yI t IDI dbe	1a6 2	3	3	3	3	3U33	dt I
FIr dbe	164 1	2a	2a	77	2u	1- U71	dt I
FIr dbe	164 2	73	73	2-	2h	6U6a	dt I
GwoC8c dbe	163 1	177	6-	au	u6	4- U4	dt I
GwoC8c dbe	163 2	1a-	133	11-	124	27U43	dt I
HC8e dbe	16a 1	u13h3h2	u1u1- a3	- h24h37	u3- 1h1a	1U64	dt I
HC8e dbe	16a 2	7- uh- 2u	7- u- u62	7u2112h	7- hha- 7	3U4h	dt I
S odbe	11a 1	62713aa	61h7uh7	617u7a1	61u- - 66	3Ua	dt I
S odbe	11a 2	h274- 1	h27a- u	h242u3	h27- - 6	3U3a	dt I
8DC.	a4 2	6- u	636	- 6-	6u7	11Uu1	dt I
8DC.	a6 2	- 62a	- 3au	aaa-	6- 4-	1aUu4	dt I
8DC.	a- 2	2a3	1u7	1u7	236	1uU7	dt I
KIyt TC.	u7 1	274	261	26a	2a7	6U4	dt I
Lpwo	236 1	1a61	1422	12ha	1426	hU7a	dt I

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	n t pIwTCI:J	swI Pw8
Lwr :Dwe t 8p:S&:J	S0 B3- 6	S I Tbe . pT:mwe p:J	Nu
0 8p. TDwe t 8p:S&:J	S0 B3- 6	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2327 3- 14:14.J27.Ja1	&wTwMt8p:mwe p:J	3170 0 BFUb

NwIwe pTpI	5 wI I	0 ND1	0 ND2	0 ND7	0 ND5 pw.	0 ND9 D&	R. dT
Lpwo	23- 1	1736	1277	136-	1232	13U1h	dt I
Lpwo	23u 1	61ha	aa62	a7a1	a- 32	- U 1	dt I
LdEdbe	6 1	24h- 131	24a26aa	27h- 6a3	244h17a	2U37	dt I
5 wg. pI dbe	24 2	h6-	u3u	6h2	u22	16U h	dt I
5 w. gw. pI p	aa 2	2a7	1- -	16-	1hh	27Uu4	dt I
5 C8yr op. be	h4 1	a42	4a3	4a3	4u1	11U31	dt I
5 C8yr op. be	ha 1	a1-	ah2	a3u	a7h	uUa2	dt I
5 C8yr op. be	h6 1	h77	6h2	a3u	- 11	2hUhu	dt I
5 C8yr op. be	h- 1	4au	2h2	7h2	7u1	22U34	dt I
5 C8yr op. be	hu 1	1333	1133	hu7	132u	6U14	dt I
mpCoye dbe	1a3 1	17	-	-	h	47U2a	dt I
mpCoye dbe	1a3 2	3	7	7	2	u6U63	dt I
mdkp8	63 2	u7	- 3	6-	- 7	12U32	dt I
NEDI t EDIbI	71 2	13u	11-	h2	136	12U36	dt I
NCTwI I dbe	7h 2	1237h	12a64	12722	1273u	2U14	dt I
9 EDodbe	137 1	63h213u	636613h	6361ah1	63- 726h	3U2-	dt I
9 EDodbe	137 2	2hh1332	2h3u161	2h- 47a-	2ha- u43	1U4u	dt I
Ddw. odbe	4a 1	41- 76a6	4113763	7h- aa42	43u6a23	2U4u	dt I
Ddw. odbe	4a 2	17ua2u	17a614	17- hu7	17- 7- a	1U17	dt I
Dp8p. dbe	u2 1	1u	21	27	h	2ahUh1	dt I
Dp8p. dbe	- - 2	3	3	3	3	3U33	dt I
Dp8p. dbe	- u 2	13	14	1a	17	23U7a	dt I
D8dC.	2u 1	216146	213- 74	211ha2	212h44	1U77	dt I
D8vpI	13- 1	ah2	4h2	46-	a1-	12Uu3	dt I
D8vpI	13h 1	41-	777	72a	7au	14U14	dt I
DDodbe	27 2	27a4a	27232	24421	27- 27	2U6a	dt I
DTC. Tbe	u6 1	12h2	11- a	uu7	111-	1uUu4	dt I
DTC. Tbe	uu 1	ua- h	- h37	a61u	- 76-	21U36	dt I
Db8bI	74 1	776722	74774u	77h212	77h62-	1U34	dt I
ApIr dbe	1ah 1	u4a- 3h1	u7u6312	u26h6- 4	u7- 3h26	1U17	dt I
ApIr dbe	1ah 2	7u3a- - 4	7- 6a3hu	76hh443	7- a6- - 1	1U47	dt I
AEw8bbe	237 1	u42	a- a	- 33	- 36	1uUh1	dt I
AEw8bbe	23a 1	1u74	14au	14h2	1aha	17U32	dt I
Ac	11u 1	ha3	- 6-	677	- u7	23U73	dt I
AdTw. dbe	4- 1	2u7	73u	16-	2a7	2hUh1	dt I
RIw. dbe	27u 1	71-	2a3	23u	2au	21U1a	dt I

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	n t pIwTCI:J	swI Pw8
Lwr :Dwe t 8p:S&:J	S0 B3- 6	S I Tbe . pT:mwe p:J	Nu
0 8p. T:Dwe t 8p:S&:J	S0 B3- 6	&8bTC. :MwdTCI:J	1
&wTp:i :Ace p:qdCbdpo:J	2327 3- 14:14:J27:Ja1	&wTwMt8p:mwe p:J	3170 0 BFlo

NwIwe pTpI	5 wI I	0 ND1	0 ND2	0 ND7	0 ND5 pw.	0 ND9 D&	R. dT
Vw. wodbe	a1 2	43	73	27	71	26U1-	dt I
YTTpIr dbe	1- 2 1	42	2a	2a	71	71Ua3	dt I
YTTpIr dbe	1- 2 2	44	1-	77	71	44U41	dt I
YTTpIr dbe	1- 6 1	1377	hu7	13- a	1371	4U4a	dt I
YTTpIr dbe	1- 6 2	13221	hu26	134uu	131- u	7U2-	dt I
YTTrdbe	uh 1	1124h- 26	117731a2	11373uhh	11237ah2	1U7u	dt I
YTTrdbe	uh 2	1211uh-	123a71u	12342uu	123- 16u	3U74	dt I
Zc d	66 2	213	1- 3	1- -	1u6	11Uaa	dt I
ZdcdC. dbe	h3 1	62a	61-	a42	ah4	- U2	dt I
ZdcdC. dbe	h1 1	16-	133	13u	12a	2hU36	dt I

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LBaber plDas	LB126466	otIDTnDas	wIP8IN
LIpa3IrtNa&aa	S03-7 6	SCPTDer CITabIrIas	um
ONCTa3IrtNa&aa	S03-7 6	&deTnCaFIqTnDas	1
&ITaiaAcrIaqdedDOas	272:J7 J14a14s46s2:	&ITFdNabIrIas	71m8O3-.O

ulDrITD	MIPP	0u31	0u32	0u3:	0u3MIIC	0u3R3&	UCdP
-Ner cCer	2 J2	4:75961	4:17:1m	441:49m	4:4:259	1.47	qt P
-CTr nCy	121J1	59	591m	6::5	67	:. 1	qt P
-DPICcq	5J2	65	69	m2	2	12.:4	qt P
BIDer	1:5J1	1 92	1 77	15m	1692	6.1	qt P
BIDer	1: J1	:279	2m59	:157	:7 :	6.17	qt P
BIDyNer	9J1	445	4 4	4 1	46:	:.44	qt P
BcPreTn	279J1	5:72 m5	5:::216	54744:6	5:46m1:	7.9m	qt P
BcPreTn	279J2	2 75669	2 626:7	2m1 191	2 61m7	2.72	qt P
BDnr cCI	m1J1	47 6	476	4 m4	4:79	9.55	qt P
OIOr cer	17mJ1	1m6	167m	1 5	1 57	.4m	qt P
OIOr cer	176J1	2m92	:757	:157	:7:1	4.:7	qt P
OIOr cer	111J1	2m4:	2975	2m6	2m2	1.17	qt P
OINqcer	4:J1	1646 :9	16 9422	161554	164 2:6	1.94	qt P
OINqcer	44J1	264m::6	26962:15	264m6942	266455:1	1.7:	qt P
OIDpnC	12J1	14:: 154	14 5m2m	14m9m7m6	146 7:56	2.71	qt P
OIDpnC	12J2	1m796:	1m2594	1m1647	1m1 :2	7.45	qt P
OhNDcCI	:5J1	9914915	12455:61	14:22 57	122:1779	1m79	qt P
OhNDcCI	:5J2	126:7	1::5:	1: 4m2	1:2442	4.2m	qt P
OhDnr cer	52J2	:25m	:2m71	:215:	:2514	1.72	qt P
OnplNT	59J2	::6	::5	:574	:479	2.47	qt P
OnttID	6:J2	1 9:1	1 664	1 mmm	1 m2m	7.m7	qt P
&yPtDnPcer	156J1	42	1	1	25	5 . :	qt P
&yPtDnPcer	156J2	27	17	1	16	:2. :	qt P
EDpcer	164J1	11	5	6	m6	:1.11	qt P
EDpcer	164J2	27	::	:7	2m	24.9m	qt P
GIOnNCer	167J1	125	m	5	94	2m:6	qt P
GIOnNCer	167J2	12:	14:	17:	12:	16.22	qt P
HnNcer	165J1	m2m5mm2	m29 79	m2 954	m14515	7.:7	qt P
HnNcer	165J2	:m7m7m	:m2 75	: 59 :7	:m767m1	1.76	qt P
SCCer	115J1	679592:	611:452	6291214	6166m6:	1. 5	qt P
SCCer	115J2	mm5127	mm919:	mm2 4	mm56m	7.:	qt P
SDnC	54J2	:25722	24791m	2 5:66	2m74:5	7.5m	qt P
SDnC	56J2	1:42 :49	1:52 :6m6	1::21 52m	1:4254974	7.	qt P
SDnC	5 J2	:426 26	:447559	:419 6m	:42971m	7.:1	qt P
KDytTnC	m J1	251	29	2m1	2	m4m	qt P
LIIO	276J1	2156:	21 52	22:5m	21m91	1.97	qt P

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Inst Id :P8

LBaber plDas	LB126466	otlDTnDas	wlP8lN
Llpa3lrtNlas&aaa	S03-7 6	SCPTDer ClTabl rlas	um
0NlCTa3lrtNlas&aaa	S03-7 6	&deTnCaFlqTnDas	1
&lTaiaAcrlaqdedDCas	272:J7 J14a14s46s2:	&lTFdNablrlas	71m80 3-.O

ulDrlTD	MlPP	0u31	0u32	0u3:	0u3MllC	0u3R3&	UCdP
LllO	27 J1	16976	1 7 m	1 156	1 74	7. 5	qt P
LllO	27mJ1	m7152	m2:27	m244	m1647	1.5m	qt P
LdTher	6J1	2446426	2: m724	2476 76	2417:m5	1.4:	qt P
MlgClPter	24J2	127m59mm	122:9955	11 6 6 :	127:1275	2.77	qt P
MlCglClPl	55J2	67m5	61 1	6191	6149	7.92	qt P
MnNypClCer	94J1	:79:297	:1797	:7 1m64	:791411	7.67	qt P
MnNypClCer	95J1	54 :m52	54 m6:	5:7 526	541991:	1.m7	qt P
MnNypClCer	96J1	5m91742	591:2m5	5m66126	5m97151	7.47	qt P
MnNypClCer	9 J1	: :12661	: : 6m67	: :29m19	: : :9 m7	1.77	qt P
MnNypClCer	9mJ1	m657162	m925191	m65 :2	m 44:61	1. 9	qt P
blnOyr cer	157J1	: :	2	27	2	24.99	qt P
blnOyr cer	157J2	:	1:		m	65.4	qt P
bcqklN	67J2	4 71	451	45	4599	2.7:	qt P
uhnPthnDeP	:1J2	2226:4	2227: :	219146	2212 1	7.m4	qt P
unTPPter	:9J2	5 69m5	:129:	6 m7:6	662175	1.72	qt P
RhnOter	17:J1	6759519	6764226	61217: :	67m159:	7.56	qt P
RhnOter	17:J2	2m47957	29:215	2917664	2m94591	1.65	qt P
3qlCOter	45J1	476 9:	4159m4	41m67	41:m425	1.52	qt P
3qlCOter	45J2	1:m171	1: 9:2	1: 45m	1: m7	7.24	qt P
3lNlOter	m2J1	6	J44	J:m	J25	J17m9	qt P
3lNlOter	J2	7	7	7	7	7.77	qt P
3lNlOter	mJ2	27	1m	11	16	2m9:	qt P
3dqnC	2mJ1	:4261	:49:97	:4956m	:4 191	1.14	qt P
3dNlD	17 J1	242	1 5	292	2:6	24. 9	qt P
3dNlD	179J1	225	225	2m	244	1:. m	qt P
3nOter	2:J2	22m2 m	2266m12:	2244567:	2264mm m	7.m6	qt P
3TDnCTer	m6J1	552	54: : 1	5: 12	54447	1.45	qt P
3TDnCTer	mmJ1	4622mm	46512m	46 m9	46576m	7.59	qt P
3eNleD	:4J1	2596	2666m6	259475	261922:	1.5m	qt P
AlDpter	159J1	m : :464	m4545m9	m61159m	m466557	1.65	qt P
AlDpter	159J2	: 51765	:m7 57m	: 1 524	: 5m699	1.21	qt P
AhlNter	27:J1	mm	mm	977	mm9	1.7m	qt P
AhlNter	275J1	1m5	1977	1mm4	1mm6	7.6m	qt P
AdC	11mJ1	166	1692	1457	167:	m29	qt P
AdTter	4 J1	1616724	165m92	167 724	162 :25	1. 7	qt P
UDter	2:mJ1	577	77	5m	594	16.97	qt P

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LBaber plDas	LB126466	otlDTnDas	wlP8lN
Llpa3lrtNa&kasa	S03-7 6	SCPTDer ClTabl r las	um
ONCTa3lrtNa&kasa	S03-7 6	&deTnCaFlqTnDas	1
&lTaiaAcr la qdedDOas	272:J7 J14a14s46s2:	&lTFdNabl r las	71m8O3-.O

ulDrlTD	MlPP	0u31	0u32	0u3:	0u3MllC	0u3R3&	UCaP
VlClOcer	51J2	227	27	2:7	219	5.:5	qt P
YTTDpcer	1 2J1	: :	42	42	:9	12.:m	qt P
YTTDpcer	1 2J2	: :	1	22	24	:5.24	qt P
YTTDpcer	1 6J1	m42	m6	177m	976	9.9:	qt P
YTTDpcer	1 6J2	964:	954m	9 9m	966:	1.:1	qt P
YTDer	m9J1	112:26 1	112:m2:7	115:m61m	11: : 6576	1.54	qt P
YTDer	m9J2	1274556	12144:5	1196956	1275:15	7. :	qt P
ZcCq	66J2	: : 17	:7 7	:79	:159	4.16	qt P
ZcDqnCer	97J1	65m	692	525	625	14.11	qt P
ZcDqnCer	91J1	92	142	5	17:	: : . 6	qt P

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LBæ r p l Dtas	LB126466	n &Dt8iCtas	P8Nu 8m
L8l a38p &mDaSTaaa	S\3 - B7 6	S Ntr p . Diæ 8p Das	bl
0 mD. ia38p &mDaSTaaa	S\3 - B7 6	Tqmnic C. aM8diCtas	1
T8iDaAacqp Da dCrqDoas	272: J7 J14a14sw7s2l	T8i8MqpDae 8p Das	71FS\3 Blu

b8t8p DiDt	5 8NN	0 b 3 1	0 b 3 2	0 b 3 :	0 b 3 5 D8.	0 b 3 9 3 T	R. qN
- mnp q qrp	2 J2	42 7 2	4147 6l	417 11l	41 4Fl 6	2U16	d&N
- . iqp C. y	121J1	17F6: F	111F47	112: : 6	111: 7w	1U 1	d&N
- tND. qpl	wJ2	2F4F	: 74F	2l l 2	2F67	2U 4	d&N
B8tqrp	1: wJ1	24722	244 :	24 47	24411	1U4F	d&N
B8tqrp	1: J1	4: 446	4124	42l 1l	42w74	2U66	d&N
BDtymqrp	FJ1	2l 1l 7	2F7: 1	2l 474	2l w. l	1Uww	d&N
BqNp rih	27FJ1	w4 7274	w4l FFl :	w. : : 2ww	w4: 114l	1Uw	d&N
BqNp rih	27FJ2	2 l l 21w	2 w. 24	2F7274F	2l 21l 62	2U4	d&N
BtCp q D	l 1J1	: 7F	: l 71	447F	: F :	FUl	d&N
0 8op qrp	17l J1	: : 1	: : 6:	: : w	: : 7	7U1F	d&N
0 8op qrp	176J1	w426	w471	w. F:	w47	7U 2	d&N
0 8op qrp	111J1	2l w2l	2F1: 7	2F124	2l F2	1U27	d&N
0 8mdqrp	4: J1	167 226	1wl 122:	1w F: 1F	1wl F2w6	7UFl	d&N
0 8mdqrp	44J1	2w6l l 2: 7	2w64w727	2ww4F747	2w62 4: 7	7U2l	d&N
0 8tl C.	12J1	14w l 164	146w 71F	14l 27412	146l w1Fl	7U 4	d&N
0 8tl C.	12J2	1l 116w	1l 4l 4l	1l 1 4	1l 2wF6	1U7l	d&N
0 hm6tq D	: wJ1	1216FF22	146 41w	16w1wl 7:	144w. 2F4	1wU7F	d&N
0 hm6tq D	: wJ2	1: F46l	146471	14 2:	144w. 1	: U7	d&N
0 htCp qrp	w2J2	62l 1	626w6	624 2	6264F	7U2l	d&N
0 Cl 8mn	wFJ2	wF14F	wF: :	wFw61	wF: 61	7U w	d&N
0 C&&Dt	6: J2	6767F	6724	wF62l	67161	7U 2	d&N
TyN&tCNqrp	1w6J1	42	w7	1	: 6	4l U7:	d&N
TyN&tCNqrp	1w6J2	17	2:	27	1l	: FU7:	d&N
Etl qrp	164J1	1wl	F2	42	F	67U27	d&N
Etl qrp	164J2	: :	: 7	: 7	: 1	6U1l	d&N
G8oCmqqrp	167J1	F2	wl	177	l :	26U46	d&N
G8oCmqqrp	167J2	12:	12	14:	1: 1	l U1	d&N
HCmqrp	16wJ1	l w. l 4 l	l : 4: 272	l : w2246	l 411: 7F	1U 1	d&N
HCmqrp	16wJ2	: l : ww2	: l wF16	: F74 w7	: l l 4 : F	7U4w	d&N
S oqrp	11wJ1	6: F7 7	62l w1F4	6246442	6: 7 44	1U1l	d&N
S oqrp	11wJ2	l Fl 1F7	l l 1714	F72: l 6	l F: l 6:	1U2	d&N
\$C.	w4J2	24: : w1	2l 2: 61	171 l 7	27F164	1U 2	d&N
\$C.	w6J2	1: 71w1 4w	12l l 1w7w7	1: 2F12477	1: 7626: Fl	1U67	d&N
\$C.	w J2	: 2 l 1	: : 2wF12	: : 741Fw	: : 7262F	7U :	d&N
Kty&iC.	l : J1	24F	264	24w	2w2	: UF:	d&N
LD8o	276J1	126: 16	124l 47	12 l 2F	126: 2l	1U1l	d&N

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LBæ r p l Dtas	LB126466	n &Dt8iCtas	P8Nu 8m
L8l a38p &mDaSTaaa	S\3 - B7 6	S Ntr p . Diæ 8p Das	bl
0 mD. ia38p &mDaSTaaa	S\3 - B7 6	Tqmicq C. aM8diCtas	1
T8iDaAacqp Da dCrqDoas	272: J7 J14a14sw7s2l	T8i8MqpDae 8p Das	71FS\3 Blo

b8t8p DiDt	5 8NN	0 b 3 1	0 b 3 2	0 b 3 :	0 b 3 5 D8.	0 b 3 9 3 T	R. qN
LD8o	27 J1	17: 11:	17wwF:	174F7F	174w. F	1U2:	d&N
LD8o	27l J1	4l 6144	4F1671	4F2w. 2	4F77F:	7U 7	d&N
Lqihqrp	6J1	2w26l 6l	2w7F76l	24F7177	2w7l 6 F	7U :	d&N
5 8g. DNqrp	24J2	11l 1 171	11 26 F:	11l 7 42:	11 l : 2	7U42	d&N
5 8. g8. DND	wwJ2	2177F	211w6	27 6F	27F l	7UF:	d&N
5 Cqml oD. r p	F4J1	: 7w l	: 7w411l	: 11 : F:	: 7 646:	1U1w	d&N
5 Cqml oD. r p	FwJ1	w: 61l F	w: F: 21l	w: 6wl Fw	w: l 4: 4	7U26	d&N
5 Cqml oD. r p	F6J1	w 6l F	wl 2: : 4	wl 776F:	wl 77: 16	7U47	d&N
5 Cqml oD. r p	F J1	: : : w. 7F	: 26ww 2	: 2l 666l	: 2Fwl w7	1U7F	d&N
5 Cqml oD. r p	Fl J1	l w611F:	l 4Fw 2F	l w. 76l	l w2F27:	7U l	d&N
e DCoyp qrp	1w7J1	2	: :	1:	24	41U66	d&N
e DCoyp qrp	1w7J2		17	7	6	F1U64	d&N
e qdkDm	67J2	1F27:	1F: 6:	1F: :	1F: 71	7U44	d&N
b hCN&hCtr N	: 1J2	2277: 6	21w22F	21: Fw	216: w.	1Uw1	d&N
b Ci8NNqrp	: FJ2	612121	w2: l l 4	w: wl 61	ww 2l F	7U6:	d&N
9 hCoqrp	17: J1	6764l 7l	674Fl 1w	6124166	67 FwF6	7U6w	d&N
9 hCoqrp	17: J2	2l 6F2 7	2l 1 7 6	2l 1Fl :	2l w2 6	1U7l	d&N
3 d8. oqrp	4wJ1	41Fw4F4	4211l wF	41w2w76	41l 6627	7U :	d&N
3 d8. oqrp	4wJ2	1472wl	1: wwl 7	1: l l l 1	1: l 247	1U 4	d&N
3 DmD. qrp	l 2J1	1F46	1l 62	1F: 7	1F1:	2U 2	d&N
3 DmD. qrp	J2	w:	7	w7	wl	1l Uww	d&N
3 DmD. qrp	l J2	21:	21w	271	217	: U61	d&N
3 qmqlC.	2l J1	: 4l : 7	: 4F612	: w4F7	: w7F42	1U77	d&N
3 qmDt	17 J1	126261	12F771	12F14w	12l 1: 6	1U2	d&N
3 qmDt	17FJ1	127l l l	12: 4	124: 2w	122l F6	1U46	d&N
3 Coqrp	2: J2	21F4 6l l	21l 64: 46	222w26wF	22721w64	7UF:	d&N
3 itC. iqrp	l 6J1	w1F7w	w2l 6	w. 2 l	w26l 6	1U 4	d&N
3 itC. iqrp	l l J1	4w4Fw7	464: 1w	4wl 2F1	4wF1l 6	1U7:	d&N
3 r mrt	: 4J1	2w41 4:	2w1 F F	24 l l 6w	2w12l 62	1U26	d&N
cDtl qrp	1wFJ1	l 61714	l 6: 22l	l 62l 4 F	l 62: 6: l	7U14	d&N
cDtl qrp	1wFJ2	: l 142F6	: l 2 2 1	: l 1l 1	: l : l 1:	7U F	d&N
ch8mqrp	27: J1	11wl 14	11l 1: w	11 w74	11 1w1	1U72	d&N
ch8mqrp	27wJ1	2 l 4:	2l 1l 7	2 l 24	2 FwFF	7U6F	d&N
cq	11l J1	1: 42	1w: :	14wl	144w	6U6F	d&N
cqi8. qrp	4 J1	1677424	16764F2	1wl 162:	1wF61l 7	7U 1	d&N
Rt8. qrp	2: l J1	w7l	w7l	wl :	w: :	l U12	d&N

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LBæ r p l Dtas	LB126466	n &Dt8iCtas	P8Nu 8m
L8l a38p &mDaSTaaa	S\ 3 - B7 6	S Ntr p . Diæ 8p Das	bl
0 mD. ia38p &mDaSTaaa	S\ 3 - B7 6	Tqmic. aV8diCtas	1
T8iDaAacqp Da dCrqDoas	272: J7 J14a14sw7s2l	T8i8MqDae 8p Das	71FS\ 3 Blo

b8t8p DiDt	5 8NN	0 b 3 1	0 b 3 2	0 b 3 :	0 b 3 5 D8.	0 b 3 9 3 T	R. qN
V8. 8oqp	w1J2	2: w. 6	2: 6w.	242F4	2: l 2l	1U 1	d&N
YiiDtl qp	1 2J1	177	wl	177	l 6	2 UF4	d&N
YiiDtl qp	1 2J2	2l	: F	44	:	22UF1	d&N
YiiDtl qp	1 6J1	l 42	Fl :	F w	F: :	l W2	d&N
YiiDtl qp	1 6J2	Fl 26	F6w4	Fl :	F 2	1U7w	d&N
Yiitqp	l FJ1	11474114	114w1477	11 4 l F7	11w. 446l	1U62	d&N
Yiitqp	l FJ2	127F2: 4	11F: 4l 4	1217272	1274: 7	7U l	d&N
Zq d	66J2	l 4l :	l 1l 6	l 4F:	l : l	2U7l	d&N
ZqdC. qp	F7J1	w42	w w	6w7	wl F	FU42	d&N
ZqdC. qp	F1J1	1wl	1w7	21	1 w	27U6	d&N

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Inst Id :P8

LBJber plDa	LB126466	. &lDÆFDa	wlP8lN
LlpJtlr &NJTJaJ	SS032-	TUPAder UlAblrlJa	um
SNlUAtlr &NJTJaJ	SS032-	idNAFUURloÆFDa	1
ilAJcJqdrlJOonedDCJa	2327 3: 14J14as7a21	ilARdNJblrlJa	323SS0MC

ulDrlAD	9lPP	Sut 1	Sut 2	Sut 7	Sut 9lIU	Sut yti	5UdP
ONerdUder	2: 2	211: 166	237s27s	223m242	2123214	4M3m	o&P
OUAtFUh	121 1	2: - 742m	2: 4s: 37	2: m 7: 7	2: : ss31	3M4	o&P
ODPlUdb	: s 2	: 74- -	: 2634	: 2716	: 2m86	3Mms	o&P
BlDder	17s 1	73661: 2	73: 6324	737: 336	73s- : 74	3M06	o&P
BlDder	17: 1	s2m2764	s2s1476	s1342m8	s2126- 7	1Mm7	o&P
BlDhNder	- 1	6- m43s	: 33m1m	6- 2sm+	6- : 2: 1	3M61	o&P
BdPr eÆE	23- 1	s: 23163	s433717	s2634s1	s46373m	4M72	o&P
BdPr eÆE	23- 2	266: 434	2s: m 3m	261s: m8	2623671	1M3	o&P
BDFr dUl	m1 1	42m4	473-	471:	4734	3M43	o&P
SlOr der	13m1	s4s4s	ss4s:	s4236	s4: 76	1M1m	o&P
SlOr der	136 1	: : 66-	: m s3	: 6s: -	: : 666	1M43	o&P
SlOr der	111 1	6m1m6:	: 36313	6- 1443	6- 7136	1Ms	o&P
SlNder	47 1	413673s	43m4314	437: 6m	43: 6332	3M76	o&P
SlNder	44 1	6sss43mm	6666: s: -	64- 6- 4m+	6s: 737ms	1M71	o&P
SlDpFU	12 1	713ms4:	71: 777:	71s- : 76	714: 23:	1M-	o&P
SlDpFU	12 2	4366s	41474	41774	41144	1M32	o&P
SENFDUl	7s 1	4s3m4: s	41- m4m6	4336m64	427: - 41	sM:	o&P
SENFDUl	7s 2	244mm	27: - s	2711-	27m81	2Mm	o&P
SEDFr der	s2 2	: m 342	: 67: 14	: s- 6- s	: : 31s3	1M2	o&P
SFplMA	s- 2	142mm22	176m6m+	174mm24	17m2112	7M31	o&P
SF&&lD	67 2	112m2- 14	11214211	111- 271m	1122- m1s	3M42	o&P
i hP&DFPder	1s6 1	642	: 77	m83	: 2s	13M6	o&P
i hP&DFPder	1s6 2	713	2m8	2: :	2m+	6M76	o&P
GDpder	164 1	1s3	1m7	1sm	164	13M-	o&P
GDpder	164 2	47	s3	43	44	11M46	o&P
HlCFNUder	163 1	sm7	6- 2	: 33	6sm	- Mm+	o&P
HlCFNUder	163 2	4m7	4s7	467	46:	7M2:	o&P
KFNder	16s 1	m+ 7722:	ms422- 4	m422131	m672s41	7M13	o&P
KFNder	16s 2	76mm+ 2m	7: 1m1s3	76m+ 1m	76- m ss	3M4s	o&P
TUCder	11s 1	67m7632	676: : 33	6371: 77	6261311	7M1:	o&P
TUCder	11s 2	m4m712	m712m1	m7: 164	m7m+ 1-	1M37	o&P
TDFU	s4 2	m 33: 33	m663- 3s	ms7213m	m67127m	1M32	o&P
TDFU	s6 2	1s- m7- - 1s	1s774: 226	1s: 6ss- 1s	1s6- 4: 6ms	2M11	o&P
TDFU	s: 2	43s4s2m	7- 37m2:	7- 4: : - :	7- 6m 1m	1Ms	o&P
gDh&AFU	m7 1	263	2m8	264	26m	7M:	o&P
LlIC	236 1	122sm42m	11m2m+ 36	11- 24311	12337: m2	1Mm	o&P

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Inst Id :P8

LBJber plDa	LB126466	. &lDAFDa	wlP8lN
LlpJtlr &NJTJaJ	SS032-	TUPAder UlAblrlJa	um
SNlUAtlr &NJTJaJ	SS032-	idNAFUURloAFDa	1
ilAJcJqdrlJOonedDCJa	2327 3: 14J14as7a21	ilARdNJblrlJa	323SS0NC

ulDrlAD	9lPP	Sut 1	Sut 2	Sut 7	Sut 9lIU	Sut yti	5UdP
LlIC	23: 1	132-m81-	13217m2:	13117--4	1323m617	3M3	o&P
LlIC	23m1	4m17142s	4:2--s41	4:2m s2:	4:s:2m71	1M2	o&P
LdAEder	6 1	24s1-s6	2s3m:6	2776-36	2472s46	7M3	o&P
9lkUlPder	24 2	2--616-3	7332312-	7322s3-1	7336m-:3	3M6	o&P
9lUklUlPl	ss 2	7-2s13:	7-7s:3m	7-s1m7m	7-7:ss1	3M4	o&P
9FNpClUer	-4 1	-:3:s21	-s67-41	-ss2s6:	-63m813	3M3	o&P
9FNpClUer	-s 1	143-:7s-	147m1-23	143m 3-6	141mm-2	1M1m	o&P
9FNpClUer	-6 1	1s:17:27	1s:134s3	1ss71s1-	1s6s1m-m	3M0:	o&P
9FNpClUer	-: 1	m6:-116	msm-:27	m61s2ms	m62m841	3M7	o&P
9FNpClUer	-m1	2717m81s	2727s731	2733:ss-	27126-sm	3M4-	o&P
blFChrder	1s3 1	2:7	1m	26:	242	1-M1	o&P
blFChrder	1s3 2	43	47	43	41	4M0m	o&P
bdbvlN	63 2	7:3136	76:s3-	76:4-6	76m7:3	3M1	o&P
uEFP&EFDeP	71 2	212--	21:3-	216s3	21ss7	1M7	o&P
uFAPPder	7- 2	-424m m	-3-6:-7	-21s72:	-24s666	1M8	o&P
yEFCder	137 1	6232:2:	63m11:1	s:62-21	631s636	7Mm	o&P
yEFCder	137 2	2:2s6-4	26m7272	26sms:1	26m-166	1M6	o&P
tolUCder	4s 1	474:1m2	42m7663	43-42-3	4241:11	7M3	o&P
tolUCder	4s 2	1732-1	173641	171m-:	173-47	3M4	o&P
tlNUder	m2 1	4-2mm	4-413	4m62s	4-13m	3M6	o&P
tlNUder	:: 2	1ss7	144:	1s3:	1s32	7M6	o&P
tlNUder	:m2	4-2-	s34s	4:m-	4-21	2M1	o&P
tdbFU	2m1	1-s-m74	232:47-	23767:6	233:mm7	2M3m	o&P
tdNlD	13: 1	7447--2	74-624-	747sm-1	74sm 13	3Ms	o&P
tdNlD	13- 1	777-1-7	77::4m8	7722213	77462-4	3Mms	o&P
tFCder	27 2	s7-663--	s27s--s:	s716mmm	s7164-m1	1M1	o&P
tADFUder	m6 1	23116:-:	2316s34m	1-m811s:	2332:66:	3M-	o&P
tADFUder	mm1	1:3m2322-	1:7--m87:	1:3sm-72s	1:1m82s73	1M1	o&P
teNeD	74 1	6264-2	626422	624-14	62s-47	3M4	o&P
qlDder	1s- 1	m-112ss	mmm1s33	m616222	mm82--2	1Mms	o&P
qlDder	1s- 2	761mm1m	7s-26m6	7s646s6	7s-23s7	3Ms	o&P
qElNder	237 1	2-37444	2m23672	2m612m	2m61:mm	1M4s	o&P
qElNder	23s 1	6m6s-37	6s66sm8	6:4m117	6:26m6s	2M4	o&P
qdU	11m1	22461m6	22-sm1:	21ms732	224247s	2M4:	o&P
qdAUder	4: 1	7m6m226	7-24447	7::114m	7ms463s	2M1	o&P
5DUder	27m1	-:31s12	-ss4m11	-711s2s	-s22616	2M3:	o&P

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LBJber plDa	LB126466	. &lDAFDa	wlP8lN
LlpJtlr &NJTJaJ	SS032-	TUPAer UlAblrlJa	um
SNlUAtlr &NJTJaJ	SS032-	idlAFUURloAFDa	1
ilAJcJqdrlJOonedDCJa	2327 3: 14J14as7a21	ilARdNJblrlJa	323SS0MC

ulDrlAD	9lPP	Sut 1	Sut 2	Sut 7	Sut 9llU	Sut yti	5UdP
0lUlCder	s1 2	s--s61	s-7s3:	s-6627	s-6s64	3M41	o&P
YAADpder	1:2 1	12s	11:	177	12s	6M0:	o&P
YAADpder	1:2 2	:m	136	6:	m7	24M34	o&P
YAADpder	1:6 1	17343	12-m2	173:4	17372	3M76	o&P
YAADpder	1:6 2	146:s	14:76	14s64	146sm	3M63	o&P
YAADder	m- 1	12317463	11-ss136	1123mm22	11:2s:-6	7M17	o&P
YAADder	m- 2	11s676-	117:s4-	11s-313	11s3-:6	1M32	o&P
ZdUo	66 2	17s2s::	1727-ms	171-61m	1772363	1M74	o&P
ZdDoFUder	-3 1	4:2716:	4-2326s	46663m-	4:6-m43	2M18	o&P
ZdDoFUder	-1 1	137sm22	132-sm6	13222:4	132-22:	3M06	o&P

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	SSB023	&Fl ilbe Fpi:mwe p:J	Nu
S8pFi:Dwe t 8p:&T :J	SSB023	T8piq F:RwO. I:J	1
Twip:A:cqe p:dOobdpn:J	202- 70 714:14Ja6J03	TwiwR8p:mwe p:J	021SSBUM1

Nwlwe pipl	9 wl l	SND1	SND2	SND-	SND9 pwF	SNDy DT	5 Fql
d8be qFdpe	2 72	213	260	134	224	14M32	Qtl
dFiqe . Fh	12171	1- - 4	1600	1a0u	14u1	3M1a	Qtl
dIl pFqO	a72	3	u		u	12M40	Qtl
Bwldpe	1- a71	6a3	- - -	2- -	40u	a4M4-	Qtl
Bwldpe	1- 71	300	40u	a00	60-	4- Mu	Qtl
Bplh8dpe	371	164	16	1- a	1aa	11M44	Qtl
Bdqe biE	20371	a44uu61	aa 23a0	a61344	aa4 0u6	1M43	Qtl
Bdqe biE	20372	2u6aa4-	230326-	236363u	2314u- a	1M3	Qtl
Bl. e qFp	u171	- 6a3	- 632	- a1	- 01	1M2a	Qtl
Swne dpe	10u71	46	21	21	23	43M43	Qtl
Swne dpe	10671	- 46	- a 6	- 601	- a4u	2M00	Qtl
Swne dpe	11171	2a-	2622	264-	2601	2M1	Qtl
Sw8Odpe	4- 71	1	a	a60	6- 6	1uM4-	Qtl
Sw8Odpe	4471	a 24	a4 33	a2 3-	a4346	4M06	Qtl
Swlr . F	1271	261- 6-	2a312 2	2a330u3	2601- a	0M44	Qtl
Swlr . F	1272	- 0424	23- 4	- 04 4	- 00u1	2M12	Qtl
SE8 lqFp	- a71	242 2 -	2- - - 63	22u 626	2- a0 a6	- M01	Qtl
SE8 lqFp	- a72	1a042	14066	1- u33	14- - a	4M1	Qtl
SEl. e dpe	a272	11- 0	122-	101-	1122	3Mu	Qtl
S. r w8	a372	3	110		34	1 M6	Qtl
S. t t pl	6- 72	2204	21a4	13-	203u	6M6	Qtl
Thl t l. l dpe	1a671	0	0	u	-	1 - M21	Qtl
Thl t l. l dpe	1a672	-	10	-	6	63M4	Qtl
Ulr dpe	16471	au	2a	a	a-	4uM24	Qtl
Ulr dpe	16472	20	2-	a	- -	60M4	Qtl
Gwn. 8qFdpe	16071	a0	a0	u-	61	- 1M40	Qtl
Gwn. 8qFdpe	16072	11-	1- -	30	112	13M-	Qtl
H. 8e dpe	16a71	3a4634	u02- 1	u21 4a6	u06a2u3	1M03	Qtl
H. 8e dpe	16a72	- 202a6	- ua214-	- 31662u	- u236 6	2M61	Qtl
&Fndpe	11a71	a333- 43	6a061u6	61u4u24	62- 0120	4M12	Qtl
&Fndpe	11a72	320244	32- u1	3- a3- 4	3266a-	0M3	Qtl
&. F	a472	3a	1006	6u3	u- 0	13M44	Qtl
&. F	a672	1131	121 3	u2u1	10 32	20M13	Qtl
&. F	a 72	2u-	- 06	- 1	- 02	aM62	Qtl
KIht i. F	u- 71	- 02	2 4	23a	230	aM14	Qtl
Lpwn	20671	2323	2a11	21u4	2a41	14M03	Qtl

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:mbe r pI:J	LB126466	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	SSB023	&Fl ilbe Fpi:mwe p:J	Nu
S8pFi:Dwe t 8p:&T :J	SSB023	T8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	202- 70 714:14Ja6J03	TwiwR8p:mwe p:J	021SSBUM1

Nwlwe pipl	9 wl l	SND1	SND2	SND-	SND9 pwF	SNDy DT	5 Fql
Lpwn	20 71	21 2	243a	1 61	214-	1 M16	Ol
Lpwn	20u71	104u0	10au0	ua12	3uau	11M-	Ol
LqiEdpe	671	2- 426aa	242 a- 1	24 10u0	241- aa	2M1	Ol
9 wgFpl dpe	2472	14a3	1- 32	3 a	12 a	20M1a	Ol
9 wFgwFpl p	aa72	2- 0	21	2- -	22	- M13	Ol
9 . 8hr npFbe	3471	20 a	1a- 4	1632	1 6	1aM6	Ol
9 . 8hr npFbe	3a71	- - 4-	2 1	20 a	2 12	2- M	Ol
9 . 8hr npFbe	3671	2aa0	2403	2642	2a- 4	4M04	Ol
9 . 8hr npFbe	3 71	1a6	1a32	1- 32	1a1	M1u	Ol
9 . 8hr npFbe	3u71	- 36	4- ua	- 401	- 31u	12M61	Ol
mp. nhe dpe	1a071	20	0	1-	11	31M06	Ol
mp. nhe dpe	1a072		0		4	u6M60	Ol
mqOkp8	6072	0	30	a0	0	2uM4	Ol
NE. l t E. lbl	- 172	1a0	1- -	142	142	aM1u	Ol
N. iwl l dpe	- 372	1 - - 6	16 10	16410	16u1u	2M11	Ol
y E. ndpe	10- 71	606 - 24	62u1- 4	623a4	6214 2a	2M06	Ol
y E. ndpe	10- 72	- 010- 42	236433-	23u40- 6	23u64a	0M6	Ol
DOwFndpe	4a71	410a203	4030010	4142- 0-	4112a0	0M6a	Ol
DOwFndpe	4a72	1- - u	1- 633	1420u4	1- 31 4	1M11	Ol
Dp8pFdpe	u271	723	710	74-	72	760M24	Ol
Dp8pFdpe	72	0	-	0	1	1 - M21	Ol
Dp8pFdpe	u72	16	13	13	1u	3M62	Ol
Dqp8O F	2u71	2- 060	2- 436a	2- 4- 2-	2- a443	0M61	Ol
Dq8vpl	10 71	- a0	232	- 2a	- 22	3M0u	Ol
Dq8vpl	1037 1	- 0u	1- -	2au	2- -	- uM6-	Ol
D. ndpe	2- 72	4 - - 6	46360	4- 666	4a3u	4M3	Ol
Dil. Fidpe	u671	2aa3	2- 32	13- 4	223a	14M11	Ol
Dil. Fidpe	uu71	161a4	1a106	1- u-	1a014	M31	Ol
Db8bl	- 471	- 40u1	- 4416-	- 401u6	- 41 22	0M6-	Ol
cplr dpe	1a371	u10- 4 2	uaa306u	u- u- 4a6	u- 4u66a	2Ma	Ol
cplr dpe	1a372	- - 6u3	- aaaa	- - 4 - -	- 43- 2a	0M61	Ol
cEw8pe	20- 71	16au	1a42	1- - -	1a11	10M30	Ol
cEw8pe	20a71	- 301	40 6	- a26	- u- 4	M-	Ol
cqF	11u71	12- -	106	3a0	10u-	1- M1a	Ol
cqwFdpe	4 71	u0u	600	4 a	62u	26M-	Ol
5 lwFdpe	2- u71	100u	31	a0u	u11	- 2M12	Ol

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LB:mbe r pI:J	LB126466	Ct plwi. I:J	swl Pw8
Lwr :Dwe t 8p:&T :J	SSB023	&Fl ilbe Fpi:mwe p:J	Nu
S8pFi:Dwe t 8p:&T :J	SSB023	Tq8piq F:RwO. I:J	1
Twip:A:cqe p:d Qobdpn:J	202- 70 714:14Ja6JD3	TwiwRq8p:mwe p:J	021SSBUM1

Nwlwe pipl	9 wl l	SND1	SND2	SND-	SND9 pwF	SNDy DT	5 Fqil
VwFwndpe	a172	1	a0	- -	- -	a0M00	Qt l
Yiiplr dpe	1 271	42	au	au	a-	1uM4-	Qt l
Yiiplr dpe	1 272	11	- 3	2u	26	a- M3-	Qt l
Yiiplr dpe	1 671	10a0	1042	1042	104a	0M46	Qt l
Yiiplr dpe	1 672	363u	3a- 1	100u	3 2	2M32	Qt l
Yiildpe	u371	11162313	11- - 0 3-	11au 636	11- 60463	1M1u	Qt l
Yiildpe	u372	1203461	1134- 1	122u1 2	121066u	1M40	Qt l
ZqFO	6672	23	- a0	- 4	- - 1	3M02	Qt l
ZqQ Fdpe	3071	32	ua0	3a0	u64	3M4	Qt l
ZqQ Fdpe	3171	21	2- -	132	214	3M11	Qt l

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	279	425	425	376	22.44	cps
Antimony	121-1	317	258	358	311	16.15	cps
Arsenic	75-2	8	6	9	8	19.92	cps
Barium	135-1	50	50	75	58	24.74	cps
Barium	137-1	125	100	158	128	22.91	cps
Beryllium	9-1	87	76	74	79	9.25	cps
Bismuth	209-1	5672100	5297019	5497215	5488778	3.42	cps
Bismuth	209-2	2766592	2818926	2928580	2838032	2.91	cps
Bromine	81-1	4084	3776	4101	3987	4.59	cps
Cadmium	108-1	25	29	29	28	8.67	cps
Cadmium	106-1	3442	3142	3317	3300	4.57	cps
Cadmium	111-1	2434	2208	2335	2326	4.86	cps
Calcium	43-1	285	237	224	249	12.92	cps
Calcium	44-1	47603	47516	46802	47307	0.93	cps
Carbon	12-1	2569854	2557051	2528695	2551867	0.83	cps
Carbon	12-2	30123	31142	30708	30658	1.67	cps
Chlorine	35-1	1614714	1553056	1517997	1561922	3.13	cps
Chlorine	35-2	10246	9211	9387	9615	5.76	cps
Chromium	52-2	1050	1043	1200	1098	8.07	cps
Cobalt	59-2	30	97	143	90	63.29	cps
Copper	63-2	1427	1647	1537	1537	7.16	cps
Dysprosium	156-1	17	8	8	11	43.34	cps
Dysprosium	156-2	3	7	0	3	100.05	cps
Erbium	164-1	67	25	83	58	51.51	cps
Erbium	164-2	20	47	20	29	53.30	cps
Gadolinium	160-1	108	42	50	67	54.49	cps
Gadolinium	160-2	110	140	117	122	12.89	cps
Holmium	165-1	8253993	7771085	8055063	8026714	3.02	cps
Holmium	165-2	3748739	3752969	3798668	3766792	0.74	cps
Indium	115-1	6531723	5958645	6189686	6226685	4.63	cps
Indium	115-2	900987	900331	897302	899540	0.22	cps
Iron	54-2	1100	1156	1161	1139	2.95	cps
Iron	56-2	9617	14564	18363	14181	30.93	cps
Iron	57-2	217	544	444	402	41.80	cps
Krypton	83-1	257	267	246	257	4.14	cps
Lead	206-1	1195	1078	1017	1096	8.24	cps

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1033	1072	928	1011	7.39	cps
Lead	208-1	4612	4573	4189	4458	5.24	cps
Lithium	6-1	2568539	2344199	2419320	2444019	4.67	cps
Magnesium	24-2	892	1784	1708	1461	33.85	cps
Manganese	55-2	160	200	207	189	13.36	cps
Molybdenum	94-1	375	275	267	306	19.73	cps
Molybdenum	95-1	333	267	325	308	11.78	cps
Molybdenum	96-1	467	383	475	442	11.48	cps
Molybdenum	97-1	225	217	250	231	7.52	cps
Molybdenum	98-1	675	433	542	550	22.01	cps
Neodymium	150-1	0	0	13	4	173.21	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	50	67	73	63	18.98	cps
Phosphorus	31-2	83	125	167	125	33.33	cps
Potassium	39-2	15434	15392	15425	15417	0.14	cps
Rhodium	103-1	6456964	5763314	6172295	6130858	5.69	cps
Rhodium	103-2	2977105	2960424	2996095	2977875	0.60	cps
Scandium	45-1	4335098	3888275	4051119	4091497	5.53	cps
Scandium	45-2	136485	136138	136838	136487	0.26	cps
Selenium	82-1	19	21	-3	13	104.40	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	12	18	17	16	20.52	cps
Silicon	28-1	222042	222473	221813	222109	0.15	cps
Silver	107-1	308	183	217	236	27.42	cps
Silver	109-1	183	192	142	172	15.56	cps
Sodium	23-2	38401	39906	37850	38719	2.75	cps
Strontium	86-1	725	458	775	653	26.08	cps
Strontium	88-1	2117	1375	1350	1614	26.99	cps
Sulfur	34-1	353058	351481	352358	352299	0.22	cps
Terbium	159-1	8938472	7825211	8139120	8300934	6.91	cps
Terbium	159-2	3682870	3687232	3644950	3671684	0.63	cps
Thallium	203-1	900	917	750	856	10.73	cps
Thallium	205-1	2059	1934	2167	2053	5.69	cps
Tin	118-1	833	850	1017	900	11.27	cps
Titanium	47-1	158	258	183	200	26.02	cps
Uranium	238-1	42	58	50	50	16.67	cps

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Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	PB154039BL	Instrumnet Name :	P8
Client Sample ID :	PBW039	Dilution Factor :	1
Date & Time Acquired :	2023-07-14 14:59:13	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	37	23	26	39.85	cps
Ytterbium	172-1	75	58	58	64	15.06	cps
Ytterbium	172-2	33	17	11	20	56.76	cps
Ytterbium	176-1	1058	1067	1025	1050	2.10	cps
Ytterbium	176-2	9587	10015	9581	9728	2.56	cps
Yttrium	89-1	11761837	10528294	11194414	11161515	5.53	cps
Yttrium	89-2	1207383	1183344	1216580	1202436	1.43	cps
Zinc	66-2	240	233	227	233	2.86	cps
Zirconium	90-1	442	433	433	436	1.10	cps
Zirconium	91-1	100	83	75	86	14.78	cps

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Inst Id :P8

LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll r a l e DNpla&aaa	SB1043-7B	t. PTlbe . pTamlle pas	Su
FNp. Ta l e DNpla&aaa	LF 3-7	&dNTC. aRldTClas	1
&l Tpai aAce paqdCbdpoas	232-:3J:14a10s32s14	&l T Rdpamlle pas	32-LF UMd

Sl l l e pTpl	9 l PP	FS 1	FS 2	FS -	FS 9pl .	FS y &	5. dP
qNbe c dbe	2J:2	10-2	14-7	146J	14J7	-M20	dDP
q. Tde C. h	121:1	1J3-6	1J111	16732	1J31J	3M62	dDP
qlPp. cd	J0:2	2-0	21-	243	227	6M2J	dDP
Bl ldbe	1-0:1	1u41-	1u36-	1Ju27	1u131	1M62	dDP
Bl ldbe	1-J:1	-122u	-2-4u	-176-	-1u46	1M7	dDP
BplhNNbe	7:1	2432	246J	2--2	2431	2M1	dDP
BdPe bTE	237:1	0J64u-7	0-u7JJu	00u12J6	00Ju6-1	-M6	dDP
BdPe bTE	237:2	2uJ00-J	271uJ44	27427-3	271243-	1M1J	dDP
BlCe c p	u1:1	-J-4	4126	-7u4	-74u	0M3-	dDP
Fl oe dbe	13u:1	172	233	234	177	-M23	dDP
Fl oe dbe	136:1	-u37	-6-4	-6J6	-J36	2M4J	dDP
Fl oe dbe	111:1	4u77	4662	4J-3	4J64	2M06	dDP
Fl Ndbe	4-:1	12634	12027	126JJ	1263-	3M07	dDP
Fl Ndbe	44:1	24473-	2462u2	246643	240742	3MJ	dDP
Fl lr C.	12:1	2004-13	2064013	20-u16-	2002-2u	3M02	dDP
Fl lr C.	12:2	-3uu-	-3u77	-130u	-374J	3M1	dDP
FENCl c p	-0:1	11uJ421	11J2u6-	1162010	11J4266	1M3J	dDP
FENCl c p	-0:2	J632	JJ17	J4-0	J0u6	1Mu	dDP
FElCe dbe	02:2	622u	6--0	6440	6--6	1M1	dDP
FCr l NT	07:2	4JJ4	4J71	4J4u	4JJ1	3M46	dDP
FCDDpl	6-:2	uJ06	uJ07	uJ47	uJ00	3M36	dDP
&hPDlCPtbe	106:1	1J	3	1J	11	u6M03	dDP
&hPDlCPtbe	106:2	3	-	-	2	u6M03	dDP
Ulr dbe	164:1	1J	1J	0u	-1	JuM1	dDP
Ulr dbe	164:2	2J	-J	2-	27	24M3-	dDP
Gl oCNl dbe	163:1	42	133	0u	6J	40M3J	dDP
Gl oCNl dbe	163:2	7J	13-	10-	11u	26M3	dDP
HCNe dbe	160:1	u4JJ-Ju	Ju6J243	u2-714-	u1740uJ	-M0	dDP
HCNe dbe	160:2	-u63433	-713272	-u7JJ6u	-uu74uJ	3M3J	dDP
t. odbe	110:1	6004u1u	610u26J	6-42736	6-0177J	-M2	dDP
t. odbe	110:2	71u7-0	7270J2	7-4034	72J6J3	3M6	dDP
tlC.	04:2	24234	24337	241J1	2412u	3M4-	dDP
tlC.	06:2	4-266u	42J1-2	427J62	427u04	3M04	dDP
tlC.	0J:2	13060	13u-2	137JJ	13J71	1M-	dDP
KlhDTC.	u-:1	20J	-14	2u1	2u4	7M4	dDP
Lpl o	236:1	u3-6	u63-	u-0u	u--2	-M1	dDP

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Inst Id :P8

LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	SB1043-7B	t. PTlbe . pTamle pas	Su
FNp. Ta l e DNpla&asa	LF 3-7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	232-:3J:14a10s32s14	&l Tl Rdpamle pas	32-LF UMd

Sl ll e pTpl	9 l PP	FS 1	FS 2	FS -	FS 9pl .	FS y &	5. dP
Lpl o	23J:1	J641	67-0	JJ20	J4-4	0M-	dDP
Lpl o	23u:1	- - 3-7	- - 240	- - 012	- - 260	3M1	dDP
LdEdbe	6:1	2022432	2-4u406	24J67u6	24472u1	-Mu	dDP
9 l g. pPdbe	24:2	132J3-	1326-6	131-63	1322- -	3M4	dDP
9 l . gl . pPp	00:2	1463	14-3	143-	14-1	1M7u	dDP
9 CNr op. be	74:1	1J762	1J0J3	1u3-J	1Ju06	1M3	dDP
9 CNr op. be	70:1	21-6J	21707	226-6	217uJ	2M7	dDP
9 CNr op. be	76:1	24J-1	24u0J	24J4u	24JJu	3M2u	dDP
9 CNr op. be	7J:1	1-42-	14324	1-336	1-4u0	-M7	dDP
9 CNr op. be	7u:1	-4u40	-6u26	-03u6	-00u6	-M4	dDP
mpCohe dbe	103:1	3	3	1-	4	1J-M1	dDP
mpCohe dbe	103:2	3	3	3	3	3M3	dDP
mdkpN	63:2	1-13	1-u3	1-J-	1-00	2M0	dDP
SECPDECIbP	-1:2	120	16J	J0	122	-JM0	dDP
SCTl PPdbe	-7:2	J63-4	J6730	J0-22	J63uJ	1M4	dDP
y ECodbe	13-:1	6407742	0713360	6- - J31J	62-06J0	4M-	dDP
y ECodbe	13-:2	-311673	27uu464	-367327	-32-361	1MJ	dDP
dl . odbe	40:1	4-133uu	-7-21u7	41uJ671	414- - 2-	4M0	dDP
dl . odbe	40:2	1-Ju-J	1-7Ju-	1434J4	1-7-60	3M7u	dDP
pNp. dbe	u2:1	u30	J7J	JJ7	J74	1M3	dDP
pNp. dbe	JJ:2	43	- -	2J	- -	23M3	dDP
pNp. dbe	Ju:2	124	74	7u	130	10M6	dDP
dNdC.	2u:1	2u6433	2u07uJ	2u0403	2u0746	3M1J	dDP
dNpl	13J:1	113-u	13700	11-uu	1112J	2M3J	dDP
dNpl	137:1	13J46	11-00	13404	13u02	4M4	dDP
Codbe	2-:2	211-J6	211Ju3	2123J3	211J42	3M6	dDP
TC. Tdbe	u6:1	4337	-272	- - u4	-062	13M6	dDP
TC. Tdbe	uu:1	2u133	26413	24J06	26422	6M-	dDP
bNbl	-4:1	-0uu02	-02476	-07201	-06u66	1M6	dDP
Apl r dbe	107:1	uu02J63	J76-u-4	u4u4J4-	u4- - JJ7	0M3	dDP
Apl r dbe	107:2	-J-44JJ	-J27014	-J741-2	-J02J3J	3M6	dDP
AEl NNdbe	23-:1	7423	7u12	7240	747-	-M6	dDP
AEl NNdbe	230:1	23731	22111	22J46	21717	4M2u	dDP
Ac	11u:1	73u	70u	uJ0	714	4M7	dDP
AdT . dbe	4J:1	6u13	J313	6202	6671	0Mu	dDP
5 ll . dbe	2-u:1	2u310	2u43u	27-1u	2u0u3	2M4	dDP

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Inst Id :P8

LBamber plas	LB126466	n DpIl TClas	wl P8l N
Ll r a l e DNpla&asa	SB1043-7B	t. PTlbe . pTaml e pas	Su
FNp. Ta l e DNpla&asa	LF 3-7	&dNTC. aRl dTClas	1
&l Tpai aAce paqdCbdpoas	232-:3J:14a10s32s14	&l Tl Rdpamle pas	32-LF UMd

Sl ll e pTpl	9 l PP	FS 1	FS 2	FS -	FS 9pl .	FS y &	5. dP
Vl . l odbe	01:2	763-	7764	70J-	7J1-	2M24	dDP
YTpIr dbe	1J2:1	0u	11J	--	67	61M07	dDP
YTpIr dbe	1J2:2	11	--	22	22	03M03	dDP
YTpIr dbe	1J6:1	13u-	13J0	1172	111J	0M1-	dDP
YTpIr dbe	1J6:2	7u07	76uJ	777u	7u4u	1M0u	dDP
YTTdbe	u7:1	11703647	11114u12	114434J7	110317u3	-M06	dDP
YTTdbe	u7:2	121-23J	1223212	12-1u11	1221J44	3MJJ	dDP
Zc d	66:2	220J	2463	2424	2-u3	4M00	dDP
ZddC. dbe	73:1	14u--	100J6	102u4	102-1	2M46	dDP
ZddC. dbe	71:1	--33	-26J	--J6	--14	1M0J	dDP

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-71	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh6	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J73J1a	&wTwUd8 :u wb r :J	724q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	1 07	166h	16h2	16h	1M42	dDl
qCTb nCE	121-1	h7a	ha0	a37	h14	M01	dDl
qpl r Ccl	3-2	2a	06	07	01	10M2h	dDl
Bwpcmb	103-1	2hh23	07126	01112	070aa	2M7h	dDl
Bwpcmb	10 -1	32 62	30 24	34a70	30 60	1M17	dDl
Br pE8mb	h-1	1 4	1a1	1a4	1a7	2M17	dDl
Bdl b mTG	27h-1	33h 72h	34333a3	3440hh3	34haa 7	1M33	dDl
Bdl b mTG	27h-2	2a14 4	2a16074	2a7h 71	2a103a4	7M12	dDl
Bpmb cCr	a1-1	1306	1aa46	2704h	1a1a	14M73	dDl
5 wob cmb	17a-1	2h	2h	2h	2h	7M17	dDl
5 wob cmb	176-1	0331	023h	0326	0443	4M0h	dDl
5 wob cmb	111-1	2311	2072	2372	240a	4M40	dDl
5 w8lcmb	40-1	22a73	203240	20217h	201a70	1M33	dDl
5 w8lcmb	44-1	0h47h77	0h711 4	4716260	0h32 h	1M4a	dDl
5 wpenC	12-1	0412676	0 1 hh2	0h1213	06a7h1a	6M44	dDl
5 wpenC	12-2	4ha2	4h037	37 10	4hh60	1M0a	dDl
5 G8hpCr	03-1	116171	11 2432	11 462a	116h066	7M60	dDl
5 G8hpCr	03-2	a061	h32	a6h	a761	0M2	dDl
5 Gpmb cmb	32-2	2	a0h	a166	h26	2M06	dDl
5 new8T	3h-2	07	6h	a0	0	3M10	dDl
5 nDDr p	60-2	2317	231	2674	2344	2M73	dDl
&El Dpnl cmb	136-1	223	077	21	24	1aM3	dDl
&El Dpnl cmb	136-2	140	130	11	10a	10M6	dDl
Fpecmb	164-1	1a0	423	042	01	0aM	dDl
Fpecmb	164-2	10	h	107	121	1 M0h	dDl
Hwon8Ccmb	167-1	423	042	042	06h	10M72	dDl
Hwon8Ccmb	167-2	010	227	237	261	1aM23	dDl
y n8b cmb	163-1	a7 3210	a706 41	a7000 6	a74a440	7M2h	dDl
y n8b cmb	163-2	0a2212	0 00333	0 4h20a	0 6a07	1M23	dDl
tCocmb	113-1	6124222	601762a	67h0067	61 67 7	1M17	dDl
tCocmb	113-2	ah44ah	aa637a	ah 00	ah2 a	7M60	dDl
tpnC	34-2	24416	20 3h	243	24237	1Mh	dDl
tpnC	36-2	40a 1a	40a303	40246	4063 0	7M41	dDl
tpnC	3 -2	11aa0	11766	11a0a	113h6	0M16	dDl
KpEDTnC	a0-1	2h3	2a7	206	2 7	11M2h	dDl
Lr wo	276-1	2477	23a4	23 0	231h	4M7a	dDl

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-71	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh6	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2720-7 -14:13J73J1a	&wTwUd8 :u wb r :J	724q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	27 -1	2176	222a	1h2a	27a	M20	dDl
Lr wo	27a-1	h460	1706a	ha3	hah6	4M3h	dDl
LdTGmb	6-1	2443a17	240701	2412410	242h310	7M0h	dDl
9 wgCr l mb	24-2	0326 6	036312	0367h2	0337h0	7M3h	dDl
9 wCgwCr l r	33-2	h647	h270	h407	h424	2M02	dDl
9 n8Eeor Cmb	h4-1	2442	2623	266	23 a	4M04	dDl
9 n8Eeor Cmb	h3-1	0 04	0 42	036	06a1	2M0a	dDl
9 n8Eeor Cmb	h6-1	0a1	0h71	0a26	0a4a	1M1h	dDl
9 n8Eeor Cmb	h -1	201	226	201	2077	1M23	dDl
9 n8Eeor Cmb	ha-1	3h03	616a	3h17	6774	2M0	dDl
u r noEb cmb	137-1	3h0	67	300	3 a	6M6	dDl
u r noEb cmb	137-2	130	1	13	162	Ma	dDl
u cdkr 8	67-2	12a	102	10h0	1006	4M70	dDl
NGhl DGhpml	01-2	27a	137	137	16h	1hM4a	dDl
NnTwl l cmb	0h-2	142727	10h73h	147464	147313	1M73	dDl
. Ghocmb	170-1	620h034	616302h	67ha2a	616 63	1M14	dDl
. Ghocmb	170-2	2h1267	2h21110	2h20h66	2h1h22h	7M27	dDl
l dwCocmb	43-1	47 4313	471a1a7	414aahh	47a7301	1M61	dDl
l dwCocmb	43-2	102622	102142	103110	1002h2	1M27	dDl
l r 8 Ccmb	a2-1	-0	-3	4a	10	222M12	dDl
l r 8 Ccmb	-2	7	7	7	7	7M77	dDl
l r 8 Ccmb	a-2	11	1a	24	1a	06M40	dDl
l 8dnC	2a-1	12443647	12h11ha	12616621	1263a7a0	1M46	dDl
l 8vr p	17 -1	13a	42	3	h2	63M36	dDl
l 8vr p	17h-1	3	3	42	64	07M12	dDl
l nocmb	20-2	20202 2	2047132	20 03h	2046h2	1M1a	dDl
l TpnCTcmb	a6-1	17310	117200	111017	17aah0	0M70	dDl
l TpnCTcmb	aa-1	h7413h	h32366	h4061a	h0044a	2M6	dDl
l m8mp	04-1	46063	43a33h	431441	43 aa6	1M04	dDl
Ar pecmb	13h-1	a2h1a02	a02 644	a1h7043	a26hh47	7M46	dDl
Ar pecmb	13h-2	06h3 2	060 a13	0 42120	06h1h70	1M42	dDl
AGw8cmb	270-1	623	31	3h2	3 a	hM07	dDl
AGw8cmb	273-1	1377	1277	12a0	102a	11M06	dDl
AdC	11a-1	2004	227h	201	22a6	2M1	dDl
AdTwCcmb	4 -1	a3a	a77	h2	a1	4M43	dDl
RpwCcmb	20a-1	1a2h	1 h73	1aa36	1a030	2M01	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpwThpJ	swlPw8
Lwe:lwbD8:t&:J	S0324-71	tCl Tpmb CrTuwbr:J	Na
5 8rCTlwbD8:t&:J	9 y 7Uh6	&8mTmC:UwdThpJ	1
&wTr:i :Adbr:qdOmprro:J	2720-7 -14:13J73J1a	&wTwUd8:uwbr:J	724q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwoomb	31-2	3 7	610	4	330	12M62	dDl
YTTrpeomb	1 2-1	142	16	1 3	161	17M	dDl
YTTrpeomb	1 2-2	a	111	a	ah	21M63	dDl
YTTrpeomb	1 6-1	1142	1142	176	111	0M4a	dDl
YTTrpeomb	1 6-2	h3ha	h7 7	h613	h42a	0M2h	dDl
YTTpomb	ah-1	1171 311	112a1637	111434a3	1114a213	1M1a	dDl
YTTpomb	ah-2	11h76a0	11h7h 6	11a7176	11a 233	7M32	dDl
ZdCd	66-2	4h 4	4 h4	4 71	4a20	2M4a	dDl
ZqpdnComb	h7-1	1123	10a0	1h77	14 7	26M46	dDl
ZqpdnComb	h1-1	2 3	077	437	042	2 M7	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-72	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J7aJ16	&wTwUd8 :u wb r :J	723q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	2174	27ah	2113	2172	7M60	dDl
qCTb nCE	121-1	23	00	600	6h	M16	dDl
qpl r Ccl	3-2	33	64	h	66	1aM0	dDl
Bwpcmb	103-1	31ah2	33160	30363	30347	0M76	dDl
Bwpcmb	10 -1	h4 h1	h642	h000a	h4a32	1M60	dDl
Br pE8mb	h-1	211	24	221	22	aM26	dDl
Bdl b mTG	27h-1	30h2 17	33ha304	346061a	34a4h34	1M11	dDl
Bdl b mTG	27h-2	2h2 a01	2a46747	2h1h777	2ah 624	1M33	dDl
Bpmb cCr	a1-1	24433	07 7h	004h1	2h332	13M66	dDl
5 wob cmb	17a-1	6	34	46	36	1aM4a	dDl
5 wob cmb	176-1	0237	0326	046	0414	4M24	dDl
5 wob cmb	111-1	22a	24h	2466	2416	4M0a	dDl
5 w8lcmb	40-1	4 002h	4a16h3	4 a302	4 a32	7M4a	dDl
5 w8lcmb	44-1	a7a 620	a1247h1	a736413	a7ah0 6	7M42	dDl
5 wpenC	12-1	4333771	4h4h464	32h4a34	4h00176	M37	dDl
5 wpenC	12-2	6674h	6 h16	7h46	6a074	0M62	dDl
5 G8hpCr	03-1	1761660	17h6660	1172h 1	17a 7hh	2M73	dDl
5 G8hpCr	03-2	a11	a7	a761	ha0	1M4	dDl
5 Gpmb cmb	32-2	40a	4024	4734	4233	4M16	dDl
5 new8T	3h-2	16h	1 00	1 4	1 26	1M37	dDl
5 nDDr p	60-2	2 44	2a24	0734	2a 4	3M67	dDl
&El Dpnl cmb	136-1	2 3	06	26	070	1aM00	dDl
&El Dpnl cmb	136-2	160	14	1 7	167	M31	dDl
Fpecmb	164-1	023	4 3	41	476	1aM03	dDl
Fpecmb	164-2	10	1 0	107	14	13M11	dDl
Hwon8Cmb	167-1	077	000	477	044	14Ma	dDl
Hwon8Cmb	167-2	017	07	26	2h4	aM1h	dDl
y n8b cmb	163-1	a73660	a017264	a44104	a26h416	2M0	dDl
y n8b cmb	163-2	0 a0006	0a0226a	0a7h204	0a7a2 h	7M64	dDl
tCocmb	113-1	61112a0	62 a0h	607a013	6202663	1M7	dDl
tCocmb	113-2	h2 41a	h171a3	h27 4a	h1h437	7M13	dDl
tpnC	34-2	622h2	64244	623ha	60743	1M0	dDl
tpnC	36-2	1141210	112661a	11071a0	11026 1	7M0	dDl
tpnC	3 -2	2h 13	2h7h	2h 34	2h322	1M23	dDl
KpEDTnC	a0-1	232	20	233	24a	0M41	dDl
Lr wo	276-1	271	21 2	220h	2140	3M02	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-72	tCl Tpmb Cr Tuwb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2720-7 -14:13J7aJ16	&wTwUd8 :u wb r :J	723q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
Lr wo	27 -1	1622	1a37	1h1	1 h6	aM67	dDl
Lr wo	27a-1	a2h7	a31a	a031	a0a6	1M41	dDl
LdTGmb	6-1	20a376	2427110	23717h	2403426	2M44	dDl
9 wgCr l mb	24-2	h14h27	h2a112	ahh24	h147h0	1M3a	dDl
9 wCgwCr l r	33-2	4h3h6	3726a	37744	4hh 7	7M6a	dDl
9 n8Eeor Cmb	h4-1	17 aa	17a60	117a7	17h17	1M0h	dDl
9 n8Eeor Cmb	h3-1	1a6aa	1ah60	1a4aa	1a 10	1M2a	dDl
9 n8Eeor Cmb	h6-1	27163	1h714	27ah1	27720	4M0	dDl
9 n8Eeor Cmb	h -1	11133	11a07	116 2	11332	0M76	dDl
9 n8Eeor Cmb	ha-1	071h2	0777a	071a0	0712a	7M04	dDl
u r noEb cmb	137-1	310	66	327	36	13M2h	dDl
u r noEb cmb	137-2	1h0	217	230	21h	14M13	dDl
u cdkr 8	67-2	h0	10	67	36	3M02	dDl
NGhl DGhpml	01-2	13a	277	123	161	20M00	dDl
NnTwl cmb	0h-2	204h06	2010aa	202a27	20074a	7M	dDl
. Ghocmb	170-1	6772 64	602406a	62301a4	61h040h	2M0	dDl
. Ghocmb	170-2	2hah742	0770a4h	2h07747	2h 4017	1M01	dDl
l dwCocmb	43-1	47 1410	421a03	4124142	410 h 1	1M47	dDl
l dwCocmb	43-2	147214	106604	106001	10 2	1M3	dDl
l r 8 Ccmb	a2-1	31	61	a6	66	2 M27	dDl
l r 8 Ccmb	-2		7	7	2	1 0M21	dDl
l r 8 Ccmb	a-2	20	1a	24	22	14M44	dDl
l d8dnC	2a-1	1ha4a3a6	27242263	2712 aa3	277 2h12	1M71	dDl
l d8vr p	17 -1	177	11	100	11	14M2h	dDl
l d8vr p	17h-1	6	a0	11	ah	2aM04	dDl
l nocmb	20-2	467406	43h16 1	4366 01	43a 3ah	7M42	dDl
l TpnCTcmb	a6-1	2 1337	2a3717	26h302	2 3064	0M76	dDl
l TpnCTcmb	aa-1	246476h	24 h7h7	24a4h 4	24 6744	7M44	dDl
l m8mp	04-1	4h 24	4 767	06041	440 3	7M13	dDl
Ar pecmb	13h-1	a2h h7	a3a127a	a3226 6	a46 264	1M	dDl
Ar pecmb	13h-2	0a 7a6	066a060	0 632hh	0 6a1 6	2M0h	dDl
AGw8mb	270-1	477	47a	4a0	401	17M06	dDl
AGw8mb	273-1	1142	101	1700	1164	12M2a	dDl
AdC	11a-1	2442	227h	2404	2061	3M61	dDl
AdTwCcmb	4 -1	a3a	a6	171	h14	hM3	dDl
RpwCcmb	20a-1	0a 71	0a0 6	0aaa3	0a634	7M0	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:I wb D8 :t&:J	S0324-72	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y 7Uh	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J7aJ16	&wTwUd8 :u wb r :J	723q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
VwOwoomb	31-2	310	4a0	427	4 2	17M7h	dDl
YTTr peomb	1 2-1	1h2	223	242	21h	11M67	dDl
YTTr peomb	1 2-2	h4	176	61	a	26M3a	dDl
YTTr peomb	1 6-1	1223	12 3	14 3	1023	hM1a	dDl
YTTr peomb	1 6-2	h340	17713	174hh	1771h	4M	dDl
YTTpomb	ah-1	110ahh0	11a2607h	11637a6h	116220 1	1M4h	dDl
YTTpomb	ah-2	122ha22	11hhh24	127 3h2	1212446	1M2a	dDl
ZdCd	66-2	12412	120ah	127ah	122h	1M4	dDl
ZqpdnComb	h7-1	116	1 04	1 23	1342	21M7	dDl
ZqpdnComb	h1-1	237	2 3	03a	2h4	1hM2	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-70	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J11J1a	&wTwUd8 :u wb r :J	726q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
q8mb cCmb	2 -2	2772	1ha7	2106	270h	4M14	dDl
qCTb nCE	121-1	66	23	6 3	6ah	4M3a	dDl
qpl r Ccl	3-2	1	64	6	7	aM3	dDl
Bwpcmb	103-1	30001	33464	33413	34 0	2M22	dDl
Bwpcmb	10 -1	h4062	h6372	h32 7	h30 a	1M10	dDl
Br pE8mb	h-1	236	247	26	233	3M40	dDl
Bdl b mTG	27h-1	3413264	30h062a	30121a6	30 06h0	1M71	dDl
Bdl b mTG	27h-2	2 346a6	2a10373	2 h777h	2 a676	1M76	dDl
Bpmb cCr	a1-1	2 103	02473	06222	01h21	14M2h	dDl
5 wob cmb	17a-1	46	h	60	60	26M3	dDl
5 wob cmb	176-1	0142	031	0023	002a	3M34	dDl
5 wob cmb	111-1	2233	231h	20aa	20a	3M30	dDl
5 w8lcmb	40-1	4a4a2a	4a02h6	4a a23	4a3016	7M4	dDl
5 w8lcmb	44-1	h71642	a7a0667	a1a7h24	a73347h	1M6	dDl
5 wpenC	12-1	4 2h667	31aa147	3024077	37a7 77	6M10	dDl
5 wpenC	12-2	6 422	72 6	0166	72aa	4M7h	dDl
5 G8hpCr	03-1	1770 32	1703032	1736 42	1701h4h	2M3a	dDl
5 G8hpCr	03-2	611	21h	2	31h	0M34	dDl
5 Gpmb cmb	32-2	0hh4	426	47a	4116	0M0a	dDl
5 new8T	3h-2	1 10	1a27	1627	1 1a	3M40	dDl
5 nDDr p	60-2	2627	230	2 07	262h	0M8h	dDl
&El Dpnl cmb	136-1	0a0	0h2	042	0 2	M27	dDl
&El Dpnl cmb	136-2	1	100	1	162	13M42	dDl
Fpecmb	164-1	477	41	0a0	477	4M1	dDl
Fpecmb	164-2	110	130	1h	134	26M1h	dDl
Hwon8Ccmb	167-1	0h2	300	2h2	476	2hM14	dDl
Hwon8Ccmb	167-2	230	070	2h7	2a2	hM1	dDl
y n8b cmb	163-1	a731446	h37030	h h2h0	hh06h	7M03	dDl
y n8b cmb	163-2	0 76642	0 0146a	0 46130	0 2a7aa	7M34	dDl
tCocmb	113-1	617671a	6016271	602 44	624hha	2M77	dDl
tCocmb	113-2	a h7hh	aa7437	aah20a	aa2h2h	7M02	dDl
tpnC	34-2	3h641	3h 3	3a6ha	3h0 1	7M1h	dDl
tpnC	36-2	17 7163	17 3 43	17a103a	17 3 36	7M32	dDl
tpnC	3 -2	2 617	2a177	2 373	2 0a	1M13	dDl
KpEDTnC	a0-1	243	264	236	233	0M7	dDl
Lr wo	276-1	2777	2736	2736	270	1M3	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr pwTnpJ	swl Pw8
Lwe:l wb D8 :t&:J	S0324-70	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTl wb D8 :t&:J	9 y 7Uh &	&8mTmC:UwdTnpJ	1
&wTr :i :Adb r :qdCmpr o:J	2720-7 -14:13J11J1a	&wTwUd8 :u wb r :J	726q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 r wC	5 Nl . l &	RCdT
Lr wo	27 -1	166	1 a	1637	16ha	4M7h	dDl
Lr wo	27a-1	h7	a3	a71	a16	7M46	dDl
LdTGmb	6-1	20a7414	20a1110	2407421	20h 016	1M27	dDl
9 wgCr l mb	24-2	h73h 4	h706 3	h27h	h1727h	1M70	dDl
9 wCgwCr l r	33-2	4h 70	37 7	3747h	372h4	1M7a	dDl
9 n8Eeor Cmb	h4-1	hha	17a21	11773	17674	3M11	dDl
9 n8Eeor Cmb	h3-1	1a234	1a410	1a727	1a22h	1M7a	dDl
9 n8Eeor Cmb	h6-1	277h7	1h464	27102	1hah3	1M4a	dDl
9 n8Eeor Cmb	h -1	1100a	112aa	11 73	11444	1M1h	dDl
9 n8Eeor Cmb	ha-1	0741	0707h	2h3h1	07176	1M4h	dDl
u r noEb cmb	137-1	64	667	a	6ha	11M7	dDl
u r noEb cmb	137-2	217	24	1a7	212	13M0	dDl
u cdkr 8	67-2	63	0	h7	47	hM42	dDl
NGhl DGhpm	01-2	17a	142	123	123	10M00	dDl
NnTwl l cmb	0h-2	203221	204304	204667	204a73	7M16	dDl
. Ghocmb	170-1	67hh3a	3h4h240	3h066a7	3hh31 7	1M31	dDl
. Ghocmb	170-2	2h7h666	2aah400	2a23aa7	2a 4hh0	1M32	dDl
l dwCocmb	43-1	0hh0 0	4747172	411240	474a 1	1M4a	dDl
l dwCocmb	43-2	104376	1031h	103h2h	103211	7M30	dDl
l r 8 Ccmb	a2-1	h7	36	3a	6a	2aM1	dDl
l r 8 Ccmb	-2	0	0	7	2	a6M67	dDl
l r 8 Ccmb	a-2	22	23	24	24	6M43	dDl
l 8dnC	2a-1	277717h0	27061ah	2702h310	27207a04	7M1h	dDl
l 8vr p	17 -1	h2	123	100	11	1aM17	dDl
l 8vr p	17h-1	37	37	3	3a	24M4	dDl
l nocmb	20-2	430 72	4303362	4603320	436h3h6	1M23	dDl
l TpnCTcmb	a6-1	2 074	2 6104	2 4347	2 43 4	7M36	dDl
l TpnCTcmb	aa-1	244432a	237 22	2432363	246a176	1M0a	dDl
l m8mp	04-1	4660	411a0	44112	40h	7M0	dDl
Ar pecmb	13h-1	a1 1a6a	a07hah2	a00030	a2 1 63	1M76	dDl
Ar pecmb	13h-2	06a24a	064a61a	06a0364	06 1336	7M34	dDl
AGw8mb	270-1	400	437	4 3	430	4M60	dDl
AGw8mb	273-1	h2	1742	a3a	ah	14M40	dDl
AdC	11a-1	2704	2737	2204	2176	3M2	dDl
AdTwCcmb	4 -1	h7a	a 3	6 3	a1h	13M47	dDl
RpwCcmb	20a-1	0aha6	0a4h0	0a7hh	0a326	1M13	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDr pwThpJ	swl Pw8
Lwe:I wb D8 :t&:J	S0324-70	tCl Tpmb Cr Tu wb r :J	Na
5 8r CTI wb D8 :t&:J	9 y 7Uh &	&8mTcnC:UwdThpJ	1
&wTr :i :Adb r :qdOmpr o:J	2720-7 -14:13J11J1a	&wTwUd8 :u wb r :J	726q. FUMd

NwpwbrTrp	9 wl l	5 Nl 1	5 Nl 2	5 Nl 0	5 Nl 9 rwC	5 Nl . l &	RCdT
VwOwocmb	31-2	44	0h7	330	460	1 M17	dDl
YTTr pecmb	1 2-1	1 3	1h2	1 3	1a1	3M00	dDl
YTTr pecmb	1 2-2	ah	a0	11	h6	1aM34	dDl
YTTr pecmb	1 6-1	173a	1737	11 3	17h3	6M0h	dDl
YTTr pecmb	1 6-2	h00	h6ha	hh13	h637	0M10	dDl
YTTpcmb	ah-1	1113a67h	11172aa	11760	1117a424	7M40	dDl
YTTpcmb	ah-2	11a2 07	11 246a	11 60	11 634	7M44	dDl
ZdCd	66-2	11a4a	11h0a	11a32	11a h	7M40	dDl
ZqpdnCcmb	h7-1	126	1223	1077	1264	2M1	dDl
ZqpdnCcmb	h1-1	137	26	2h2	206	02M10	dDl

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	801	761	720	761	5.34	cps
Antimony	121-1	358	392	367	372	4.66	cps
Arsenic	75-2	20	10	21	17	35.78	cps
Barium	135-1	11472	11747	10780	11333	4.40	cps
Barium	137-1	18772	20074	20182	19676	3.99	cps
Beryllium	9-1	135	144	130	136	5.11	cps
Bismuth	209-1	5683182	5325672	5536089	5514981	3.26	cps
Bismuth	209-2	2934296	2886082	2892390	2904256	0.90	cps
Bromine	81-1	12706	12748	12998	12817	1.23	cps
Cadmium	108-1	38	63	54	51	24.77	cps
Cadmium	106-1	3526	3192	3225	3314	5.54	cps
Cadmium	111-1	2562	2274	2287	2374	6.87	cps
Calcium	43-1	97390	99525	98522	98479	1.08	cps
Calcium	44-1	1714296	1722573	1774294	1737055	1.87	cps
Carbon	12-1	3480763	3542006	3598117	3540296	1.66	cps
Carbon	12-2	43524	43022	43272	43273	0.58	cps
Chlorine	35-1	751433	757173	756047	754884	0.40	cps
Chlorine	35-2	5301	5293	5451	5348	1.67	cps
Chromium	52-2	1777	1607	1793	1726	5.99	cps
Cobalt	59-2	467	447	407	440	6.94	cps
Copper	63-2	1603	1707	1530	1613	5.50	cps
Dysprosium	156-1	67	125	92	94	30.98	cps
Dysprosium	156-2	27	33	27	29	13.31	cps
Erbium	164-1	83	108	108	100	14.43	cps
Erbium	164-2	67	57	57	60	9.62	cps
Gadolinium	160-1	175	167	158	167	5.00	cps
Gadolinium	160-2	167	143	137	149	10.58	cps
Holmium	165-1	8608007	8146931	8451476	8402138	2.79	cps
Holmium	165-2	3898433	3713828	3817195	3809819	2.43	cps
Indium	115-1	6551081	6327966	6327407	6402151	2.01	cps
Indium	115-2	918224	907594	908962	911594	0.63	cps
Iron	54-2	13384	13295	12945	13208	1.76	cps
Iron	56-2	242450	232940	236537	237309	2.02	cps
Iron	57-2	6068	6163	6496	6242	3.60	cps
Krypton	83-1	287	297	245	277	10.08	cps
Lead	206-1	1611	1722	1606	1646	4.00	cps

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1339	1400	1333	1358	2.73	cps
Lead	208-1	6501	6484	6379	6454	1.03	cps
Lithium	6-1	2462963	2404035	2446270	2437756	1.25	cps
Magnesium	24-2	189665	190316	187234	189071	0.86	cps
Manganese	55-2	10517	10314	10220	10351	1.47	cps
Molybdenum	94-1	3017	3242	2867	3042	6.21	cps
Molybdenum	95-1	4859	5343	5043	5082	4.80	cps
Molybdenum	96-1	5410	5226	5193	5276	2.21	cps
Molybdenum	97-1	3050	3117	2800	2989	5.59	cps
Molybdenum	98-1	7844	8353	7544	7914	5.17	cps
Neodymium	150-1	153	133	200	162	21.09	cps
Neodymium	150-2	43	63	33	47	32.74	cps
Nickel	60-2	187	233	240	220	13.21	cps
Phosphorus	31-2	58	100	100	86	27.93	cps
Potassium	39-2	58385	59557	59582	59175	1.16	cps
Rhodium	103-1	6531126	6234733	6413387	6393082	2.33	cps
Rhodium	103-2	3029246	2984596	3011043	3008295	0.75	cps
Scandium	45-1	4277457	3989900	4267071	4178143	3.90	cps
Scandium	45-2	139087	136163	139570	138273	1.33	cps
Selenium	82-1	49	-5	28	24	113.98	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	16	23	22	20	18.62	cps
Silicon	28-1	4254159	4232829	4234217	4240401	0.28	cps
Silver	107-1	125	117	167	136	19.68	cps
Silver	109-1	142	67	67	92	47.24	cps
Sodium	23-2	951869	942389	951401	948553	0.56	cps
Strontium	86-1	56765	56724	58724	57405	1.99	cps
Strontium	88-1	484883	500370	501456	495570	1.87	cps
Sulfur	34-1	419559	419681	414340	417860	0.73	cps
Terbium	159-1	8642441	8156636	8420518	8406532	2.89	cps
Terbium	159-2	3734222	3698254	3726539	3719671	0.51	cps
Thallium	203-1	392	417	392	400	3.61	cps
Thallium	205-1	1233	1033	1033	1100	10.50	cps
Tin	118-1	1650	1508	1542	1567	4.73	cps
Titanium	47-1	733	575	558	622	15.52	cps
Uranium	238-1	7786	8295	8178	8086	3.30	cps

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LB Number :	LB126466	Operator :	Jaswal
Lab Sample ID :	O3524-02LX5	Instrumnet Name :	P8
Client Sample ID :	MH0F97L	Dilution Factor :	5
Date & Time Acquired :	2023-07-14 15:14:16	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	147	163	127	146	12.61	cps
Ytterbium	172-1	100	75	108	94	18.37	cps
Ytterbium	172-2	33	56	39	43	27.16	cps
Ytterbium	176-1	1150	1000	967	1039	9.40	cps
Ytterbium	176-2	10288	9648	10037	9991	3.22	cps
Yttrium	89-1	11775702	11056161	11537023	11456295	3.20	cps
Yttrium	89-2	1215689	1193700	1210811	1206733	0.96	cps
Zinc	66-2	2824	2804	2880	2836	1.40	cps
Zirconium	90-1	875	708	775	786	10.67	cps
Zirconium	91-1	108	117	133	119	10.66	cps

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-74	tOwTpmb Or Tusb r:J	8N
5 Pr CTI sb DPr:t&:J	9 y 7Uh I	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J1 J21	&sTsUdPr:usb r:J	72Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCcmb	2 -2	hh747	hN27h	hNN23	hN6h1	7M44	dDw
qCTb nCE	121-1	303h70	34703h	3072 3	303312	7M14	dDw
qpwr Ccd	3-2	6127	677N	3hNh	670h	1M1	dDw
Bspcmb	103-1	266 NN	2 44473	26h6276	2 72N00	1M40	dDw
Bspcmb	10 -1	46712 1	4316337	43h1167	436h667	1M71	dDw
Br pEPRmb	h-1	h117	h20	h 14	h034	7M47	dDw
Bcwb mTG	27h-1	320300	323hN63	3043721	32N77 4	1M7h	dDw
Bcwb mTG	27h-2	2 4720	2N27 3h	2N07h60	2N7N3N1	1M7N	dDw
Bpmb cCr	N1-1	2N622	04 2	420N1	03240	1hM36	dDw
5 sob cmb	17N-1	431	46N4	4 71	4604	2M1h	dDw
5 sob cmb	176-1	h20	Nh 7	h6N	h2hN	0M17	dDw
5 sob cmb	111-1	12 4	6h0N4	27N1	7h10	1M13	dDw
5 sPlcmb	40-1	4 1174	4 2007	4N2434	4 32h6	1M01	dDw
5 sPlcmb	44-1	h7N12h	h 7027	N27 3	N72N6 3	1M1	dDw
5 spenC	12-1	42461hh	4 03470	4hN4N16	46334 0	NM7	dDw
5 spenC	12-2	66237	63434	6 10	662N7	1M2	dDw
5 GPmpcCr	03-1	0h22N21	4 2N2h1	30h 0h	46N2N06	13M	dDw
5 GPmpcCr	03-2	46h71	4h 27	30616	377 h	6M0	dDw
5 Gpmb cmb	32-2	062322	03h722	0606 2	061 0h	7M3	dDw
5 nesPT	3h-2	1 3 N04	1 6hN2	1 34h01	1 67N64	7M43	dDw
5 nDDr p	60-2	6001 4	6421 6	60202h	603Nh0	7MN6	dDw
&EwDpnwcmb	136-1	06	423	47N	477	M31	dDw
&EwDpnwcmb	136-2	1 0	1N7	160	1 2	4MN	dDw
Fpecmb	164-1	06	437	0 3	0h	11M36	dDw
Fpecmb	164-2	160	110	1 7	14h	27MN7	dDw
HsonPCcmb	167-1	03N	2h2	423	03N	1MN07	dDw
HsonPCcmb	167-2	267	200	26	230	6M16	dDw
y nPb cmb	163-1	631600	h21412	N4N643	N7 207	1Mh	dDw
y nPb cmb	163-2	0 03 2	0 h0 0	0N10h23	0 N113	1M1	dDw
tCocmb	113-1	617644	6130764	67 424	6112011	7M62	dDw
tCocmb	113-2	NN242	NN6N16	Nh633N	NNN677	7MN1	dDw
tpnC	34-2	122040	120N N	1272 6	122163	1M4N	dDw
tpnC	36-2	2171042	217061N	27h 3hh	2177N30	7M14	dDw
tpnC	3 -2	317h1	316h4	37N3N	31214	7MN4	dDw
KpEDTnC	N0-1	2 1	263	246	261	4M1h	dDw
Lr so	276-1	Nh1hh	Nh1	h2021	h7202	2M17	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DP:t&:J	S0324-74	tOwTpmb Or TusB r:J	8N
5 Pr CTI sb DP:t&:J	9 y 7Uh I	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J1 J21	&sTsUdP:usb r:J	72Nq. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	27 -1	N76N	NNNh	h771	N630	7M03	dDw
Lr so	27N-1	030374	03h10N	0640Nh	03h717	1M02	dDw
LdTGmb	6-1	204hh h	241 6h2	2416 64	20h4N12	1M02	dDw
9 sgOr wcmb	24-2	Nh 7 3	h1267h	NhN171	h723h3	7M16	dDw
9 sOgsOr wr	33-2	4N7744	4N4066	4N40 2	4N2h2N	7M02	dDw
9 nPEeor Omb	h4-1	11110	11746	11333	1120N	2M46	dDw
9 nPEeor Omb	h3-1	1 612	1N010	1N410	1N112	2M41	dDw
9 nPEeor Omb	h6-1	1hNN1	2743	1hN76	2774N	1MN	dDw
9 nPEeor Omb	h -1	12722	117 1	11710	1106h	4MN	dDw
9 nPEeor Omb	hN-1	2N 2	2h0 0	07077	2h4N2	2M61	dDw
u r noEb omb	137-1	00	647	h0	22	17M7	dDw
u r noEb omb	137-2	267	2 0	21	237	11MN3	dDw
u dkr P	67-2	44644	44N22N	437431	44N0 3	7M43	dDw
8 GhwDGhpmw	01-2	h2	137	200	13N	44M1	dDw
8 nTswwcmb	0h-2	200NN0	203737	203h13	204h4h	7M40	dDw
. Ghoomb	170-1	3NN7 h	67017h7	3h611h7	3h3 6h2	1M26	dDw
. Ghoomb	170-2	2NN7324	2h03330	2h0 301	2h1 N6h	1M11	dDw
I dsCoomb	43-1	47 h02h	476N012	4173 hN	47N44N7	7M4	dDw
I dsCoomb	43-2	1062h6	103Nhh	10440h	103343	7M2	dDw
I r PComb	N2-1	hh04	h6 4	h 7	h 2	1M43	dDw
I r PComb	-2	047	2	220	2N7	27MN6	dDw
I r PComb	N-2	1103	17	17 0	17h3	0M1	dDw
I dRdnC	2N-1	1hh66722	1hhh4 02	2707 134	277Nh072	7M14	dDw
I dPr p	17 -1	0744N3	0704 0	071Nh4	0702N4	7M40	dDw
I dPr p	17h-1	2NN 10	2Nh1h2	2Nh6h7	2Nh1hN	7M1	dDw
I noomb	20-2	431h7hN	434N77N	4431411	43761 0	1M17	dDw
I TpnCTomb	N6-1	2 4117	2 06 1	2 62 h	2 46N	7M31	dDw
I TpnCTomb	NN-1	2473 42	2431N 4	243N 44	240N N	1MN	dDw
I mPmp	04-1	2h7 2	2N01h	06246	01212	7M67	dDw
Ar peomb	13h-1	N03NN10	N24 1h7	N07N 37	N074h1N	7M3	dDw
Ar peomb	13h-2	06 hh31	06 4hN	06N3462	06N7100	7M14	dDw
AGsPomb	270-1	2641hh	2 1h72	2 74N2	26NN61	1M32	dDw
AGsPomb	273-1	62164N	600h1	637NN6	6034N4	2M01	dDw
AdC	11N-1	2142	2442	2677	20h3	hM2	dDw
AdSComb	4 -1	113N	113N	10h2	1206	17M17	dDw
RpsComb	20N-1	0N724	0 Nhh	0 40h	0 NN	7MN2	dDw

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On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-74	tOwTpmb OrTusb r:J	8N
5RrCTI sb DPr:t&:J	9 y 7Uh I	&dPnTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J1 J21	&sTsUdPr:usb r:J	72Nq. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	31-2	6NN16h	6N7h23	6h7470	6N64hh	7M2	dDw
YTTr peomb	1 2-1	1h2	277	242	211	12M0h	dDw
YTTr peomb	1 2-2	h4	10h	176	110	27M4	dDw
YTTr peomb	1 6-1	h3N	121	1123	1177	11M11	dDw
YTTr peomb	1 6-2	h 02	hN3h	h6 7	h 34	7M1h	dDw
YTTpomb	Nh-1	111N14NN	111221h6	11446313	11237766	1M34	dDw
YTTpomb	Nh-2	11N7071	11NN3 3	121704N	11h07 3	1M07	dDw
ZdCd	66-2	1643N7	16 76h	16407N	16301h	7M12	dDw
ZqpdnComb	h7-1	11N0	13N4	11h2	1027	1 M00	dDw
ZqpdnComb	h1-1	223	2h2	06	2h4	24M7	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-73	tOwTpmb Or Tu sb r:J	8 N
9 Pr CTI sb DPP:t&:J	y h 7M N	&dPmTmC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J27J1	&sTsMdP:u sb r:J	72. qF UMPb

8spsb r Tr p	y sww	9 8 I 1	9 8 I 2	9 8 I 0	9 8 I y r sC	9 8 I F I &	5 CdTw
qPmb dCcmb	2 -2	2122	2221	2374	22N2	NR6	dDw
qCTb nCE	121-1	. 2	N 3	. N0	NN0	17RNN	dDw
qpwr Ccd	3-2	6	2	N.	.	11R23	dDw
Bspcmb	103-1	30 3N	30. N0	322N3	30042	1R 0	dDw
Bspcmb	10 -1	. 4N6	. 03. 7	. 20 0	. 0617	1R0	dDw
Br pEPRmb	. -1	247	22.	2 7	246	NR66	dDw
Bcvb mTG	27. -1	30 771N	303. . . 2	321N437	3016134	1R3.	dDw
Bcvb mTG	27. -2	2 N1727	2N3 76	2 N. 3 3	2N7. 221	1R4N	dDw
Bpmb dCr	N1-1	2. 120	02734	0371.	02763	. R27	dDw
9 sob cmb	17N-1	34	0N	60	31	24R	dDw
9 sob cmb	176-1	0142	023.	02N4	022N	2R04	dDw
9 sob cmb	111-1	2243	200N	2042	207.	2R0.	dDw
9 sPdcmb	40-1	46 177	4 4263	4 6 N.	4 2 1N	1R76	dDw
9 sPdcmb	44-1	6. 367	N 310	N71NN67	NNN644	1R3N	dDw
9 spenC	12-1	42062 3	4647264	4N4N412	43 4. N4	6RN7	dDw
9 spenC	12-2	604 1	6071.	6404.	60610	1R76	dDw
9 GPmpdCr	03-1	20 0N 3	2031222	22631 .	20077. 2	2R46	dDw
9 GPmpdCr	03-2	13 7.	1407	10. . 7	1466.	6R20	dDw
9 Gpmb cmb	32-2	3731	37N1	31N1	3174	1R0	dDw
9 nesFT	3. -2	22. 4	27.	2207	227	4R33	dDw
9 nDDr p	60-2	26.	2N. 7	03	0733	13R14	dDw
&EwDpnwcmb	136-1	46	03N	2. 2	0 2	20R 0	dDw
&EwDpnwcmb	136-2	1. 0	127	12	14	2 R63	dDw
Upecmb	164-1	400	0N0	0N0	477	R22	dDw
Upecmb	164-2	1.	130	1N7	1	12R0	dDw
HsonRCcmb	167-1	000	423	023	061	13R0	dDw
HsonRCcmb	167-2	077	017	2N0	2. N	4R32	dDw
h nPb cmb	163-1	N16603N	N72N436	. 7730.	N701 N4	1R66	dDw
h nPb cmb	163-2	0N7631N	0 2010	066472N	0 0122N	1R.2	dDw
tCocmb	113-1	67 6 6	622643N	6700423	6112327	1R63	dDw
tCocmb	113-2	NNN00	N. 20N7	NN33.	NNN 1	7R0N	dDw
tpnC	34-2	11273	11616	12011	11 11	4R N	dDw
tpnC	36-2	1. 2610	1. N730	210 . 6	2714N	3R46	dDw
tpnC	3 -2	632.	6271	6641	643	0R34	dDw
KpEDTnC	N0-1	261	2.	261	2 0	R66	dDw
Lr so	276-1	0743	2N61	2N77	2. 72	4R0N	dDw

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Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-73	tOwTpmb Or TusB r:J	8N
9 Pr CTI sb DPP:t&:J	y h 7M N	&dPmTcnC:MsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J27J1	&sTsMdPP:usb r:J	72. qF UMPb

8spsb r Tp	y sww	9 8 I 1	9 8 I 2	9 8 I 0	9 8 I y r s C	9 8 I F I &	5 CdTw
Lr so	27 -1	2443	2237	221	2074	3P04	dDw
Lr so	27N-1	11010	11110	17 . 6	117 4	2P03	dDw
LdTGmb	6-1	20 7N3	24176 1	20. 2N. 2	20. 034.	7R 7	dDw
y sgOr wcmb	24-2	NN. . 00	NN3. 4	NN4N43	NN6. 1	7P07	dDw
y sOgsOr wr	33-2	4N04N	4N263	4NN67	4N4. 1	7P66	dDw
y nPEeor Omb	. 4-1	1762.	17. . 6	11073	17.	0P7N	dDw
y nPEeor Omb	. 3-1	1 . .	1N20	1 62N	1 . 4N	1R 7	dDw
y nPEeor Omb	. 6-1	27341	273. .	277 0	27474	1P41	dDw
y nPEeor Omb	. -1	116 2	11233	11N.	1167N	2PN1	dDw
y nPEeor Omb	. N-1	2. 447	07603	0777N	0772N	1R.	dDw
u r noEb omb	137-1	N4	77	27	36	17P30	dDw
u r noEb omb	137-2	270	277	227	27N	3P16	dDw
u cdkr P	67-2	1107	17N0	1217	1141	3P61	dDw
8 GhwDGhpmw	01-2	142	. 2	137	12N	24P6.	dDw
8 nTswwcmb	0. -2	22 6 .	22. NN	22 63N	22N0 3	7P34	dDw
F Ghocmb	170-1	6172631	3. N6N46	3. 60 3	671 31	1P24	dDw
F Ghocmb	170-2	2N 7N60	2N. 3 N	2. 74. 20	2N. 7324	7P61	dDw
I dsCocmb	43-1	0. 27 6	47 NN0N	41434 3	4763460	2P13	dDw
I dsCocmb	43-2	10 1 .	10340.	1060 N	106002	7P64	dDw
I r PCcmb	N2-1	. 3	21	40	30	1R 3	dDw
I r PCcmb	-2	7	7	0	1	1 0P21	dDw
I r PCcmb	N-2	0	24	07	07	21P43	dDw
I dPdnC	2N-1	1. 430227	2710 1N2	1. . 2. 670	1. N47772	1R	dDw
I dPr p	17 -1	137	100	077	1. 4	4 P22	dDw
I dPr p	17. -1	17N	17N	3	.	1. PN7	dDw
I nocmb	20-2	4344 . .	4341. . 0	4307720	430N. 0N	7P1	dDw
I TpnCTcmb	N6-1	2660. 4	2 6427	2 13.	2 14 7	1PN3	dDw
I TpnCTcmb	NN-1	247 41N	2436716	24166N	2426 7	1P76	dDw
I mPmp	04-1	1NNN	2 N. N	2. 64N	234 N	7PN7	dDw
Ar pecmb	13. -1	N0 . 64	N223 6	N10. 24	N24N220	1P4N	dDw
Ar pecmb	13. -2	06 4N3.	060 33.	036. 0N2	062 26	1P4	dDw
AGsPPcmb	270-1	377	437	47N	430	17P14	dDw
AGsPPcmb	273-1	113N	. . 2	. 37	1700	17P6	dDw
AdC	11N-1	14N77	14 . 2	1407N	14600	1R.0	dDw
AdSCcmb	4 -1	N0	N00	1700	NN0	14R.N	dDw
5 psCcmb	20N-1	0N03.	06. 21	0 301	0 674	1R.2	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-73	tOwTpmb OrTusbr:J	8N
9RrCTI sb DPr:t&:J	y h7M N	&dPnTnC:MsdTnpJ	1
&sTr:i :Adbr:qdOmprro:J	2720-7 -14:13J27J1	&sTsMdPr:usbr:J	72. qFUMRo

8spsbrTrp	y sww	98I 1	98I 2	98I 0	98I yrsC	98I FI &	5CdTw
VsCsoomb	31-2	647	67	630	600	0RN7	dDw
YTTrpeomb	1 2-1	1N0	123	21	1 3	26R31	dDw
YTTrpeomb	1 2-2	2	177	136	17.	0NRN4	dDw
YTTrpeomb	1 6-1	17N0	1700	107N	1142	12RN0	dDw
YTTrpeomb	1 6-2	. 474	. 63.	. 714	. 03.	0R4	dDw
YTTpomb	N. -1	1122N101	1126. 0N7	17. . 674	11164327	1R02	dDw
YTTpomb	N. -2	11 66NN	11 61N0	11N0N22	11 NN.	7R06	dDw
ZdCd	66-2	1017.	10770	10467	101. 1	1RN1	dDw
ZqpdnComb	. 7-1	1177	1737	1142	17.	4R1N	dDw
ZqpdnComb	. 1-1	242	200	2 3	237	NRN2	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-76	tOwTpmb Or Tusb r:J	8N
5 Pr CTI sb DPP:t&:J	9 y 7Uhh	&dPnTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J20J1	&sTsUdP:usb r:J	707q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
qPmb oCcmb	2 -2	27N3	27 6	1hNh	2737	2M37	dDw
qCTb nCE	121-1	N6	Nh2	NN0	NN1	1M43	dDw
qpwr Ccd	3-2	6	61	66	63	4M1	dDw
Bspcmb	103-1	3246h	326N	37 h6	31hN4	1M1h	dDw
Bspcmb	10 -1	Nh h7	h10h2	Nh0 2	h71N4	1M1N	dDw
Br pEPPmb	h-1	206	224	241	204	0MN6	dDw
Bcwb mTG	27h-1	3374364	34 37h7	32h2642	34247hh	2M12	dDw
Bcwb mTG	27h-2	072064N	2N7h360	2N3h136	2Nh 436	0MN1	dDw
Bpmb cCr	N1-1	26hh0	01 7	031N6	01016	10M14	dDw
5 sob cmb	17N-1	37	42	34	4h	10M7h	dDw
5 sob cmb	176-1	0004	021	01N4	0243	2M40	dDw
5 sob cmb	111-1	2061	2264	2202	22N6	2M10	dDw
5 sPlcmb	40-1	4N4h34	4h0711	4h7N6N	4Nh611	7MN3	dDw
5 sPlcmb	44-1	N22NhhN	N122 7h	N411113	N2342 4	1M	dDw
5 spenC	12-1	416006N	430007	4N30777	431633N	M04	dDw
5 spenC	12-2	67N17	61772	61212	6177N	7M00	dDw
5 GPhpcCr	03-1	133044h	13 N106	13 1 66	136 N0	7MN2	dDw
5 GPhpcCr	03-2	1742h	17674	1700	1743	1M07	dDw
5 Gpmb cmb	32-2	1h60	1hh0	1N6	1h41	0M41	dDw
5 nesPT	3h-2	1h3	16h0	1h27	1N3	M0N	dDw
5 nDDr p	60-2	2424	23N	24h	2372	0M2	dDw
&EwDpnwcmb	136-1	06	06	000	036	3M41	dDw
&EwDpnwcmb	136-2	147	167	1N7	167	12M37	dDw
Fpecmb	164-1	2 3	0N0	03N	00h	16M4	dDw
Fpecmb	164-2	167	12	14	144	11M01	dDw
HsonPCcmb	167-1	342	0N0	023	41	26M11	dDw
HsonPCcmb	167-2	077	237	2 7	2 0	hM21	dDw
y nPb cmb	163-1	N16N4 4	N733642	N740232	N7Nh120	7MN3	dDw
y nPb cmb	163-2	477N1 0	0 30762	0N21014	0N67N4h	0M42	dDw
tCocmb	113-1	62600 4	6212676	67NN423	61NN103	1M43	dDw
tCocmb	113-2	h 742	h10N22	h720hN	h017N	4M02	dDw
tpnC	34-2	323	36h7	342h	343h	4M77	dDw
tpnC	36-2	h3747	h 127	h4706	h30hh	1M03	dDw
tpnC	3 -2	060h	4104	04Nh	0 34	NM1N	dDw
KpEDTnC	N0-1	2N7	234	243	267	M72	dDw
Lr so	276-1	1 h3	1N76	1h76	1N03	0M00	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	S Dr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-76	tOwTpmb Or TusbR:J	8N
5 PrCTI sb DPP:t&:J	9 y 7Uhh	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpro:J	2720-7 -14:13J20J1	&sTsUdP:usb r:J	707q. FUMd

8spsb r Tp	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
Lr so	27 -1	1300	1336	1337	1346	7M3	dDw
Lr so	27N-1	27	1N4	131	1N1	7N0h	dDw
LdTGmb	6-1	247h 32	2434771	206 2 N	2417044	1NN7	dDw
9 sgOr wmb	24-2	177N3N0	1717h22	h 0N4	hh N4	2M7N	dDw
9 sOgsOr wr	33-2	43271	43233	4400h	44h02	1M14	dDw
9 nPEeor Omb	h4-1	1303h	13442	13704	132 N	1M41	dDw
9 nPEeor Omb	h3-1	1N374	1N30N	1N72h	1N03	1M33	dDw
9 nPEeor Omb	h6-1	27N41	27302	1hN 0	27413	2M42	dDw
9 nPEeor Omb	h -1	11422	1160N	17h0N	11000	0M16	dDw
9 nPEeor Omb	hN-1	2h 41	2h063	2h1 0	2h426	7M1N	dDw
u r noEb omb	137-1	3N7	4N	600	36	10M17	dDw
u r noEb omb	137-2	1N	1h	1N0	1Nh	0M3	dDw
u dkr P	67-2	340	300	6 7	3N2	10M7h	dDw
8 GhwDGhpmw	01-2	11	16	N0	122	04N01	dDw
8 nTswwmb	0h-2	22767h	224747	222446	222063	7M	dDw
. Ghomb	170-1	616N7N3	3hNN40N	61112	67Nh26	1M31	dDw
. Ghomb	170-2	01N74N	07147NN	2h12 2h	0703 6N	4M43	dDw
I dsComb	43-1	47N4604	4121003	47h303	4177442	7M46	dDw
I dsComb	43-2	14 N0N	103 N3	103N42	10hN22	4M16	dDw
I r PPomb	N2-1	N7	17h	121	170	27M4	dDw
I r PPomb	-2	7	7	0	1	1 0M21	dDw
I r PPomb	N-2	2h	21	20	24	1 M1	dDw
I dRdnC	2N-1	1h072N41	1hhh0004	1h617711	1h6030h3	1M6	dDw
I dPr p	17 -1	123	1 3	123	142	27N0N	dDw
I dPr p	17h-1	37	42	37	4	17M1N	dDw
I nomb	20-2	4N46 N6	4N 6 h7	4 206N7	4N13 32	1M3N	dDw
I TpnCTomb	N6-1	2h4 N4	2h306h	2h1 76	2h0h30	7M3	dDw
I TpnCTomb	NN-1	26232 N	264 774	23N6 22	261h66N	1M1	dDw
I mPmp	04-1	N14627	N26 37	N11hNh	N1 N6	7M16	dDw
Ar pemb	13h-1	N4N724	N2042hN	N221N22	N012122	1M3	dDw
Ar pemb	13h-2	4716434	0 N24Nh	0 h110	0N3h032	0M30	dDw
AGsPPmb	270-1	47N	242	400	061	2NNN3	dDw
AGsPPmb	273-1	h37	6 3	N77	N7N	1 M10	dDw
AdC	11N-1	2604	2304	2N1	2661	3M47	dDw
AdSomb	4 -1	1723	N3N	h37	h44	NNN4	dDw
RpsComb	20N-1	412	414N3	47114	47h3h	1NN7	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-76	tOwTpmb OrTusb r:J	8N
5RrCTI sb DPr:t&:J	9 y 7Uhh	&dPnTnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J20J1	&sTsUdPr:usb r:J	707q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	31-2	4N	41	43	430	M3	dDw
YTTr peomb	1 2-1	27N	21	27N	211	2M2N	dDw
YTTr peomb	1 2-2	144	111	177	11h	1hM02	dDw
YTTr peomb	1 6-1	1000	11N0	1100	121	NM03	dDw
YTTr peomb	1 6-2	171 1	1704h	h 74	177 4	0M01	dDw
YTTpomb	Nh-1	1101h213	111360Nh	1122120h	112022N1	7M0	dDw
YTTpomb	Nh-2	10006 7	127163h	127111	12434N2	6M10	dDw
ZdCd	66-2	17134	h 37	h30	hN10	0M1h	dDw
ZqpdnComb	h7-1	14041	1433h	10 h1	14207	2MN	dDw
ZqpdnComb	h1-1	2 3	077h	077h	2h01	4M07	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-7	tOwTpmb Or Tu sb r:J	8N
5 Pr CTI sb DPP:t&:J	9 y 7Uq7	&dPmTcnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpr o:J	2720-7 -14:13J26J13	&sTsUdP:u sb r:J	701q. FUM

8spsb r Tr p	9 sww	58I 1	58I 2	58I 0	58I 9 r sC	58I . I &	RCdTw
qPmb oCcmb	2 -2	07	012	012	011	7M10	dDw
qCTb nCE	121-1	00	N0	23	4	66M2	dDw
qpwr Ccl	3-2	2	0	1	2	37M7	dDw
Bspcmb	103-1	3	3N	37	61	27M0	dDw
Bspcmb	10 -1	17N	137	N0	114	2hM3	dDw
Br pEPPmb	h-1	62	67	34	3h	M6	dDw
Bcwb mTG	27h-1	324N1h	323h N	32 2034	3267110	7M20	dDw
Bcwb mTG	27h-2	2N3641	2 731h1	2 6h2h2	2 6h6	2M0	dDw
Bpmb cCr	N1-1	h227	N444	332	N476	hM10	dDw
5sob cmb	17N-1	0N	37	46	44	14M02	dDw
5sob cmb	176-1	0123	0077	0071	0242	0M12	dDw
5sob cmb	111-1	21 N	2021	2016	22 2	0M3	dDw
5sPlcmb	40-1	237	241	224	20N	3M61	dDw
5sPlcmb	44-1	461h3	46000	43N04	46121	7M36	dDw
5spenC	12-1	2h302N7	2N323h4	2N46746	2NN0h 0	2M7N	dDw
5spenC	12-2	021	02 N	026 N	0234N	1M7	dDw
5GPmpcCr	03-1	h47N60	h7NN63	Nhh441	h160h7	2M0	dDw
5GPmpcCr	03-2	3N 6	62h0	6126	67hh	0M44	dDw
5Gpmb cmb	32-2	121	172	1130	1102	NM3	dDw
5nesPT	3h-2	47	67	00	44	01M20	dDw
5nDDr p	60-2	N27	Nh0	2	N10	17M2	dDw
&EwDpnwcmb	136-1	1	1	1	1	7M7	dDw
&EwDpnwcmb	136-2	7	1	0		102M0	dDw
Fpecmb	164-1	42	42	37	44	17M2	dDw
Fpecmb	164-2	07	10	27	21	0hM3	dDw
HsonPCcmb	167-1	42	17N	177	N0	40M3h	dDw
HsonPCcmb	167-2	100	h0	107	11h	1NM6	dDw
y nPb cmb	163-1	N22h	N7h7760	N712210	h6716h	2M4	dDw
y nPb cmb	163-2	0 14167	06h2622	061714	06 2017	1M7	dDw
tCocmb	113-1	3h03h12	672h0hh	67h63N	6727600	1M04	dDw
tCocmb	113-2	Nh2734	Nh176	N 2h11	NN3044	1M2	dDw
tpnC	34-2	32N	411	3 2	374	16M2	dDw
tpnC	36-2	4762	4076	40N4	4231	0M6	dDw
tpnC	3 -2	161	176	137	10h	21M1	dDw
KpEDTnC	N0-1	26	2N4	2N4	2 N	0M0	dDw
Lr so	276-1	37	44	61	32	1M10	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umb er pJ	LB126466	SDr psTnpJ	aswl sP
Lse:I sb DPP:t&:J	S0324-7	tOwTpmb OrTusb r:J	8N
5PrCTI sb DPP:t&:J	9 y 7Uq7	&dPmTmC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpro:J	2720-7 -14:13J26J13	&sTsUdP:usb r:J	701q. FUMd

8spsb r Tp	9 sww	58l 1	58l 2	58l 0	58l 9 rsC	58l . l &	RCdTw
Lr so	27 -1	611	3 2	3N0	3Nh	0M47	dDw
Lr so	27N-1	2h11	2N0h	2h6	2h76	2M27	dDw
LdTGmb	6-1	20636h2	20 36	2014617	2031hh0	1M0h	dDw
9 sgOr wcmb	24-2	100	16	077	277	44M17	dDw
9 sOgsOr wr	33-2	170	37	0	6	03M0N	dDw
9 nPEeor Cmb	h4-1	137	177	177	11	24M3	dDw
9 nPEeor Cmb	h3-1	3N	N0	37	64	2 M13	dDw
9 nPEeor Cmb	h6-1	17N	13N	177	122	23MM1	dDw
9 nPEeor Cmb	h -1	6	6	1	37	3 M0	dDw
9 nPEeor Cmb	hN-1	6	3	42	61	2NM0N	dDw
u r noEb cmb	137-1	7	7		2	1 0M21	dDw
u r noEb cmb	137-2	7	7	7	7	7M17	dDw
u cdkr P	67-2	0	0	7	2	2M66	dDw
8 GhwDGhpmw	01-2	177	3N	177	N6	2 M14	dDw
8 nTswwcmb	0h-2	12h76	123N1	12636	12 14	1M04	dDw
. Ghocmb	170-1	3 6hh74	6147132	6147103	6716 07	0M33	dDw
. Ghocmb	170-2	2h66N63	2N2N10N	2h1h623	2h74N 6	2M40	dDw
I dsCocmb	43-1	0NNN341	47NN113	47 72h1	471364h	2M3	dDw
I dsCocmb	43-2	102N1N	10013N	1077h6	102724	1M2	dDw
I r PCcmb	N2-1	0	-0N	-21	-1h	-17 M2h	dDw
I r PCcmb	-2	7	7	7	7	7M17	dDw
I r PCcmb	N-2	27	10	26	27	00M7N	dDw
I dPdnC	2N-1	2066	2032 4	207240	204763	1M43	dDw
I dPr p	17 -1	h2	177	137	114	2 M7	dDw
I dPr p	17h-1	3N	11	3	N0	06M76	dDw
I nocmb	20-2	2N7 N	2 640	2h24	2N020	2M10	dDw
I TpnCTcmb	N6-1	323	323	46	376	6M06	dDw
I TpnCTcmb	NN-1	h1	N6	642	N7N	1NM12	dDw
I mPmp	04-1	02h206	023hN4	002 42	02h021	1M70	dDw
Ar pecmb	13h-1	h06060	N2062 4	h 4 4h	N74h12h	2M70	dDw
Ar pecmb	13h-2	03h 322	06246h4	041Nh N	034 764	0M13	dDw
AGsPPcmb	270-1	242	037	21	26h	26M07	dDw
AGsPPcmb	273-1	67N	3h2	N7N	66h	1NM71	dDw
AdC	11N-1	1	3	6N0	23	6M47	dDw
AdSCcmb	4 -1	277	11	1N0	16	26M46	dDw
RpsCcmb	20N-1	00	N	1	1h	63M4	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:umber pJ	LB126466	SDrpsTnpJ	aswl sP
Lse:I sb DPr:t&:J	S0324-7	tOwTpmb OrTusb r:J	8N
5RrCTI sb DPr:t&:J	9 y 7Uq7	&dPnTnC:UsdTnpJ	1
&sTr:i :Adb r:qdOmpro:J	2720-7 -14:13J26J13	&sTsUdPr:usb r:J	701q. FUMd

8spsb r Tr p	9 sww	5 8 I 1	5 8 I 2	5 8 I 0	5 8 I 9 r sC	5 8 I . I &	RCdTw
VsCsoomb	31-2	10	1	1	16	12M47	dDw
YTTr peomb	1 2-1	37	37	00	44	21M66	dDw
YTTr peomb	1 2-2	2N	00	0h	00	16M3	dDw
YTTr peomb	1 6-1	17 3	h3N	176	1700	6M07	dDw
YTTr peomb	1 6-2	h3N	hh0	h164	h360	4M73	dDw
YTTpomb	Nh-1	17 61N23	1114062	111 1h02	11723 h3	2M7N	dDw
YTTpomb	Nh-2	11 h63	1132106	114 63	113hN1	1M4h	dDw
ZdCd	66-2	110	h	14	11h	21M41	dDw
ZqpdnComb	h7-1	0 3	4N0	077	0N6	20MN	dDw
ZqpdnComb	h1-1	1	37	h2	30	1M27	dDw

Reviewed By:Bin
On:7/17/2023 6:34:55 AM
Inst Id :P8

LB:b er pl Da	LB126466	. &l DPAFDa	l P8NPu
LPp:t Pr &ul:T :a	SS03-3	TU8ADer Ul Ab Pr l :a	ms
SudlUAt Pr &ul:T :a	SS03-3	i deAFU:RPoAFDa	1
i PA:c:qdr l:OonedD C:a	232-73 714:1Ja4sa8w	i PAPRdl:b Pr l :a	3-4SS0M

mPDPr l A D	9 P88	Smt 1	Smt 2	Smt -	Smt 9 l PU	Smt y t i	5 UdB
Ouer dUder	2 72	212621	23ws-J1	23163w	23s3222	2MJ	o&8
OUAt FUh	12171	2 -Js6	2 14J6s	26s - 2	2 12632	3M3	o&8
OD8l Udb	J72	J42s	--s3	244-	- J1	2M	o&8
BPDder	1-J71	2ws 2-6	-31 w3-	2wJw6 6	2wss2 1	3Mw	o&8
BPDder	1- 71	J3w3J1-	J146 32	J111 J3	J116-22	3MJ	o&8
Bl Dhuder	w71	34 Js	6wJ1J2	6wJ141	6ws-J3	3Mw	o&8
Bd8r eÆE	23w71	J-1sw13	J1w w3w	J22ss3w	J24sJ42	1M23	o&8
Bd8r eÆE	23w72	26ws-J1	2J s J	2J2s4	2631J6s	-M6	o&8
BDFr dUl	s171	41 6	4-6	4Js4	4- 6	4M	o&8
SPOr der	13s71	J6-w3	J6sss	J 3s3	J6 s6	3M-	o&8
SPOr der	13671	s2-JJ	s3J32	s1 4-	s1J--	1M16	o&8
SPOr der	11171	-J3-s	24--s	14323	2446J	1MJ	o&8
SPuder	4-71	43s124w	43-sw16	43- 1s4	43J24J3	3M62	o&8
SPuder	4471	6Jws16 3	643s2362	6J64 14w	6J2-6w63	1MJ	o&8
SPDpFU	1271	2ww13ss	-34w 61	-3 2 3	-3- sJ2	1Mw	o&8
SPDpFU	1272	43164	4311-	-w434	-wsw4	1M	o&8
SEuFDUl	-J71	-6 1J	-6 662	-6J 1w	-66s46	3M	o&8
SEuFDUl	-J72	26 J	2s6	2--4	262J	13M2w	o&8
SEDFr der	J272	s121	44623	J3 1	J s-	2MJ	o&8
SFpPuA	Jw72	14-42w-	1--1Jws	1-16Js4	1-63s2J	4M1	o&8
SF&&l D	6-72	1144-ws6	113J-JJ	13 1Js2s	113 1124	-M2w	o&8
i h8&DF8der	1J671	3s	6J3	633	6J-	sM1	o&8
i h8&DF8der	1J672	-2	2J-	26	2s2	1-M4	o&8
GDpder	16471	1w2	1J3	12J	1J6	21M0J	o&8
GDpder	16472	4-	-	4	42	12M36	o&8
HPCFudUder	16371	2J	66	6Js	6s-	JM2	o&8
HPCFudUder	16372	4 -	-s-	-w-	41	11M4	o&8
KFur der	16J71	s43Js 6	s34 w2	s1ss44-	s2143-	2M23	o&8
KFur der	16J72	- 1 ws4	- 3J1s-	-JJJ32	-6Jw-ws	2M4s	o&8
TUCder	11J71	63w116s	613413s	63-32-2	63 J16w	3M0J	o&8
TUCder	11J72	s63 s2	s- 6J2	s2-J12	s4364s	2M24	o&8
TDFU	J472	s 114 4	s412w1J	s4111-w	sJ11s4-	2M3-	o&8
TDFU	J672	1J6ss6 Jw	1J--4- 3	14w1w23w2	1J-143s 4	2M1	o&8
TDFU	J 72	-wws62	-wJ2s23	-sw2644	-w4s3-3	1MJ	o&8
gDh&AFU	s-71	26J	266	-36	2 w	sM1	o&8
LI PC	23671	11w33662	116w- 41	11 -4- s	11 6263	3M-	o&8

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LB:b er pl Da	LB126466	. &l DPAFDa	l P8NPu
LPp:t Pr &ul:T :a	SS03-3	TU8ADer Ul Ab Pr l:a	ms
SudlUAt Pr &ul:T :a	SS03-3	i deAFU:RPoAFDa	1
i PA:c:qdr l:OonedD C:a	232-73 714:1Ja4sa8w	i PARRdl:b Pr l:a	3-4SS0M

mPDPr l A D	9 P88	Smt 1	Smt 2	Smt -	Smt 9 l PU	Smt y t i	5 UdR
LI PC	23 71	1323s6ws	132s6w-	133s4sw6	131w-J11	1M33	o&8
LI PC	23s71	4 2 343w	4 -s32 J	46264sw6	46w 1s63	1M1	o&8
LdAder	671	243- 11	2-w6 6-	2- 263w	2-w132s	3M0s	o&8
9 PkUl 8der	2472	2wwwJJsw	2wJ6s41	2s414- 4	2w-2612	2Mw	o&8
9 PUkPUl 8l	JJ72	-w2J24w	-s1J-6w	-s23JJ1	-sJ- 2-	1M61	o&8
9 FuhpCl Uer	w471	w4642--	wJw11s2	wJ-J64w	wJ-3-JJ	3M6	o&8
9 FuhpCl Uer	wJ71	1- 6 462	14-4w6s-	1413wJ-s	143 JJ61	2M3s	o&8
9 FuhpCl Uer	w671	1J23J443	1JJ4-Jss	1J-2 3-	1J-Jsw11	1M11	o&8
9 FuhpCl Uer	w 71	sJ161	s4w1sw	s464ww1	s4w1321	3M3	o&8
9 FuhpCl Uer	ws71	22J4sw 1	22J 2 -6	22163w-2	2242 J4	1M3-	o&8
bl FChr der	1J371	22	1s3	1 -	1w-	1JM3-	o&8
bl FChr der	1J372	-	2	--	-2	1JM43	o&8
bdbvl u	6372	- 4J24	-63swJ	-J343J	-61w41	-M4	o&8
mEF8&EFDe8	-172	21 w2	212ww	23 4w	212s3	2M4J	o&8
mFAP88der	-w72	w2w22-w	w221- 2	w32J642	w1 w J1	1M3	o&8
y EFCder	13-71	633J-4s	JsJ6wJJ	Js213w	Jsw446	1M06	o&8
y EFCder	13-72	2s-1 w	266w33-	2J6w4s2	26w33ss	4MM2	o&8
t oPUCder	4J71	424 133	414s661	41-J2ww	41 323	1M46	o&8
t oPUCder	4J72	1-2s-1	1-1w2-	12w-2-	1-1-Jw	1Mw	o&8
t l uUder	s271	4s6s6	4s 13	4s62w	4s6 J	3M3w	o&8
t l uUder	72	142-	1413	14w3	1441	2Mv	o&8
t l uUder	s72	4w2-	4w63	4 3J	4s6-	2M4-	o&8
t dbFU	2s71	1w J262	236J-46	23J6JJs	23-2-sw	2M44	o&8
t dfl D	13 71	-4J63J2	--6w4-1	--ss33s	-4344w	1M4	o&8
t dfl D	13w71	-244-ww	-24-646	-2-J3 4	-2413-w	3M16	o&8
t FCder	2-72	J-1-ww2J	J2-6626w	J3434s14	J1w 3--6	2M1	o&8
t ADFUAder	s671	1w6 -J6-	1w 14-43	23166w44	1wsJ1616	1Ms	o&8
t ADFUAder	ss71	16w -4w1	16ws3 J4	1 1ss423s	1 34ss4s4	3M1	o&8
t eUéD	-471	641wss	6-6w44	6-3w24	6-661w	3M4	o&8
ql Dpder	1Jw71	s 36 21	s-- 1s1	s42- 46	s4sw216	2M2s	o&8
ql Dpder	1Jw72	-62J636	-Js4J4	-J34sJ6	-J 16 3	1M2	o&8
qEPuder	23-71	2s2s334	2s26s6w	2s2w46	2s2s114	3M3J	o&8
qEPuder	23J71	6664s4	6J 6-1-	6J132--	6Js- ws	1Ms	o&8
qdU	11s71	21ww664	212s33w	21JswJ-	216223w	1M06	o&8
qdRPUder	4 71	-s --12	-s22 -	-sJw6ss	-sJ1w24	3M0s	o&8
5 DPUder	2-s71	wJ w 4	wJ23 4J	w-2-ws4	w4 4s2J	1M41	o&8

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LB:b er pl Da	LB126466	. &l DPAFDa	l P8NPu
LPp:t Pr &ul :T :a	SS03-3	TU8ADer Ul Ab Pr l :a	ms
SudlUAt Pr &ul :T :a	SS03-3	i deAFU:RPoAFDa	1
i PA:c :qd l :OonedD C:a	232-73 714:1Ja4sa8w	i PARRdl :b Pr l :a	3-4SS0M

mPDPr l AD	9 P88	Smt 1	Smt 2	Smt -	Smt 9 l PU	Smt y t i	5 UdR
0PUPCder	J172	Jwsw-s	Js3s-3	J 13ss	Js-61w	2M42	o&8
YAADpder	1 271	1Js	13s	1s-	1J3	2JM46	o&8
YAADpder	1 272	s	s	61	2	1-M-	o&8
YAADpder	1 671	121ws	12 43	12Js1	12J36	2M4-	o&8
YAADpder	1 672	14sJw	1461w	14-4	1463s	1MJ	o&8
YAADder	sw71	116ww2sw	112 2ss-	11J436J	11J342 6	1M4	o&8
YAADder	sw72	11s422w	11424J2	112-w13	11J31w	2M6w	o&8
ZdUo	6672	1-J3631	1-22	12s- 12	1-1w3-3	2MJ	o&8
ZdDoFUder	w371	4 sJ 3w	46wssJ	46sJ442	4 2---6	1M1J	o&8
ZdDoFUder	w171	1311144	13-2J-4	132433	1322J62	1M3J	o&8

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LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DPP t& J	SSB030	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DPP t& J	SSB030	&dPmTC. MsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J: 2J13	&sTsMdPP u sb r J	03: SSBFUb

8spsb r Tr p	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
qPmb c omb	27-2	207	27y	276	2: 4	1: Uy1	dDw
q. Tb C. h	121-1	12: y	13: N	1267	12y:	4U2N	dDw
qpwr . cd	7: -2	13	N	13	11	2: U47	dDw
Bspomb	13: -1	117:	77:	2N3	74:	60U00	dDw
Bspomb	137-1	1634	y67	N33	114:	37U47	dDw
Br phPmb	y-1	266	216	112	1yN	3yU4	dDw
Bowb mTE	20y-1	: 0yN34N	: 3y61Ny	604213N	: : 1222:	NU7:	dDw
Bowb mTE	20y-2	2N67: y3	2N23301	27N: 3y7	2N2: 430	1U46	dDw
BpCb c r	N1-1	3N42	4176	4401	4140	6U7y	dDw
Ssob omb	10N-1	7:	7:	: 4	6N	17U67	dDw
Ssob omb	106-1	2N0y	3067	3442	3106	10U26	dDw
Ssob omb	111-1	21y3	22y0	24y2	232:	6U7	dDw
SsPdomb	43-1	114y	N60	630	NN0	2yU6	dDw
SsPdomb	44-1	634y7	: : : 44	: 3y21	: 76: 4	NUNy	dDw
SspeC.	12-1	2: 7y73N	2: y: 461	2: : 43: y	2: 76: 1y	0UN0	dDw
SspeC.	12-2	30: y1	30073	30474	3037y	0UNy	dDw
SEPOpc r	3: -1	301414	3044: y	30: 626	303N33	0U72	dDw
SEPOpc r	3: -2	2442	2034	21N4	2220	yU31	dDw
SEpCb omb	: 2-2	11y0	1333	1060	11y:	11U4:	dDw
SCesPT	: y-2	1: 7	200	207	1NN	14U46	dDw
SCDDr p	63-2	1N67	2420	2360	2216	13U71	dDw
&hwDpOwomb	1: 6-1	2:	N	2:	1y	4yU0	dDw
&hwDpOwomb	1: 6-2	7	7	3	6	34U70	dDw
Fpeomb	164-1	2:	: N	N3	: 6	: 2U6N	dDw
Fpeomb	164-2	27	17	27	23	24U74	dDw
GsoCPe omb	160-1	7:	: 0	10N	7N	37U63	dDw
GsoCPe omb	160-2	y3	y0	140	10N	2: Uy4	dDw
HCPb omb	16: -1	746N67:	776N444	y006: 73	N0N1230	10U0y	dDw
HCPb omb	16: -2	37y737:	37N3613	3N: 1: 34	3N10N41	0Uy4	dDw
t. oomb	11: -1	: y1N: 26	607: 4N2	6N7621y	62y007:	NU17	dDw
t. oomb	11: -2	Ny66: 2	Ny4640	y21: 3y	y04277	1U66	dDw
tpC.	: 4-2	N06	117N	1267	10N3	22UN	dDw
tpC.	: 6-2	13073	1N112	1N001	163y6	17U:	dDw
tpC.	: 7-2	3y4	: 22	: 3y	4N:	16U2y	dDw
KphDTC.	N3-1	271	267	2N7	27:	3UN6	dDw
Lr so	206-1	422:	326N	1N67	3120	3NU02	dDw

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LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DPP t& J	SSB030	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DPP t& J	SSB030	&dPmTC. MsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J: 2J13	&sTsMdPP usb r J	03: SSBFlb

8spsb r Tr p	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
Lr so	207-1	2y6N	34: 1	17Ny	2736	31U2:	dDw
Lr so	20N-1	1: 02y	1: 4: 3	N074	12N: 2	32U24	dDw
LdEomb	6-1	2200: 72	2334N30	2: yyy02	237N43:	NUJ4	dDw
5 sg. r womb	24-2	1N: y	32N4	2y42	26y:	27U62	dDw
5 s. gs. r wr	: : -2	270	417	443	377	24U7N	dDw
5 OPheor . mb	y4-1	3770	2N76	16N4	2777	37U70	dDw
5 OPheor . mb	y: -1	6611	40y4	1y: 0	421N	: : U31	dDw
5 OPheor . mb	y6-1	: yNy	4444	2776	4403	36UJ0	dDw
5 OPheor . mb	y7-1	: 0y2	2134	1: 2:	2y17	6: U40	dDw
5 OPheor . mb	yN-1	61N0	: y46	41y4	: 440	1yUy6	dDw
ur Cohb omb	1: 0-1	7	20	13	13	4yUyy	dDw
ur Cohb omb	1: 0-2	3	0	7	3	100U0:	dDw
udkr P	60-2	67	77	63	6y	10U0N	dDw
8 EOwDEOpmw	31-2	7:	7:	142	y7	3yUJy	dDw
8 CTswwomb	3y-2	16: N:	16: 27	1: 701	16271	3U04	dDw
9 EOomb	103-1	: 742N27	60: N321	67NNNNy	61y667y	NU66	dDw
9 EOomb	103-2	2y677: N	2y6y: y6	30204: y	2yN: y3N	1U00	dDw
l ds. oomb	4: -1	3y12021	3y70700	4471N66	411N1y6	7U47	dDw
l ds. oomb	4: -2	13: 14:	136337	137743	13640N	0Uy:	dDw
l r PP. omb	N2-1	1	N	-16	-3	-4y2U44	dDw
l r PP. omb	77-2	3	3	0	2	N6U60	dDw
l r PP. omb	7N-2	1:	1N	1y	17	12U01	dDw
l dPdC.	2N-1	23141y	234400	22y370	23172y	1U0y	dDw
l dPr p	107-1	242	1: 0	2: 0	214	2: Uy4	dDw
l dPr p	10y-1	1N3	117	200	167	26U46	dDw
l Coomb	23-2	41N61	44627	4270:	43064	3U2y	dDw
l TpC. Tomb	N6-1	: y1:	6301	222:	4N14	46U74	dDw
l TpC. Tomb	NN-1	: : 7N7	3y6N1	16yy7	374NN	: 1UyN	dDw
l mPmp	34-1	341y: 1	34Ny3y	34NyNy	346627	1U17	dDw
Ar peomb	1: y-1	77y0: 60	7y66: y0	y1402: 0	N2yy133	NUN4	dDw
Ar peomb	1: y-2	3641y7:	36N6246	36y66N4	3674y6y	0U7y	dDw
AEs PPomb	203-1	1342	1467	y7:	1261	20U27	dDw
AEs PPomb	20: -1	74: 4	2y43	227:	4224	66U6y	dDw
Ac	11N-1	17N4	1434	y17	137N	31U6:	dDw
AdS. omb	47-1	11: y	10y2	6: 0	y67	2NUJN	dDw
Rps. omb	23N-1	17y2	23y4	733	1640	: 1U26	dDw

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LB umb er pJ	LB126466	n Dr psTCpJ	aswl sP
Lse l sb DPP t& J	SSB030	t. wTpmb . r Tu sb r J	8 N
SPr . Tl sb DPP t& J	SSB030	&dPmTC. MsdTCpJ	1
&sTr i Adb r qdOmpr o J	2023-07-14 1: J. 2J13	&sTsMdPP u sb r J	03: SSBFlb

8spsb r Tr p	5 sww	S8l 1	S8l 2	S8l 3	S8l 5 r s.	S8l 9l &	R. dTw
Vs. soomb	: 1-2	17	N3	60	: 3	63U42	dDw
YTTr peomb	172-1	: N	2:	: N	47	40U76	dDw
YTTr peomb	172-2	17	11	3y	22	66U14	dDw
YTTr peomb	176-1	1033	y0N	y00	y47	7UNy	dDw
YTTr peomb	176-2	y732	10060	y7yN	yN63	1U76	dDw
YTTpomb	Ny-1	107N3174	1131312y	12: 414y1	11: 4: y32	7UN1	dDw
YTTpomb	Ny-2	11yy623	117: 2N0	121716:	11y73: 6	1U76	dDw
Zc d	66-2	2: 3	277	273	26N	4U71	dDw
ZqpdC. omb	y0-1	2076	147:	1267	1606	26U16	dDw
ZqpdC. omb	y1-1	32:	267	200	264	23U70	dDw

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O329M

Test : e t a s C. PSG B

Prepbatch ID : S152M, 364

Sequence ID/Qc Batch ID: P1597M774

Standard ID :
e S8M3924e S826794e S875524e S875574e S875924e S875984e S875904e S875354e S875394e S875324e S875374e S8793
84e S879304e S879364e S879M, 4e S879M54e S879M94e S879M34e S879MM4e S879M24e S879M74e S879M84

Chemical ID :
e MM, 04e M7284e M8, 84e M8704e M0924e M08M4e M0824e M0874e M0884e M00, 4e M0054e M0094e M0034e M00M4e M0024e M0074
e M0004e M0064e M0654e 2, 564e 2, 9, 4e 250M4e 25694e 25634e 29, , 4e 29, 54e 299M4e 29984e 29964e 293, 4e 29354e 29MM4
e 29M24e 29064e 29634e 29604e 23, 54e 23084e 2MM04e 2MM64e 2M704e 2M764e 2M834e 22954e 22724e 22084e 22684e 22664
e 27, 34e 27, 74W97, 74

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP74325	03/09/2023	09/07/2023	Al-Terek Isaac	None	None	Sarabjit Jaswal 03/23/2023

FROM 1250.00000ml of M5449 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HN8 3	MP75962	06/23/2023	12/10/2023	Al-Terek Isaac	None	None	Sarabjit Jaswal 06/23/2023

FROM 1250.00000ml of M55B7 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIK KLAN( )S0/ICK/CCKE	MP76115	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/03/2023

FROM 25.00000ml of M5603 + 4925.00000ml of W2606 + 50.00000ml of M5597 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	SB ICPMS	MP76116	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/03/2023

FROM 1.00000ml of M52B9 + 2.50000ml of M5201 + 2.50000ml of M529B + 5.00000ml of M5193 + 5.00000ml of M5200 + 5.00000ml of M546B + 79.00000ml of MP76115 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
395B	ICV)SFAME	MP76125	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/03/2023

FROM 2.00000ml of M5293 + 9B.00000ml of MP76115 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP76127	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/03/2023

FROM 10.00000ml of M5244 + 90.00000ml of MP76115 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAK ICPMS	MP7612B	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C8)AE	Kin He 07/03/2023

FROM 10.00000ml of M5244 + 10.00000ml of M5245 + B0.00000ml of MP76115 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
B70	ICPMS SPI(_ S8 L.K	MP76131	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C8)AE	Kin He 07/03/2023

FROM 0.45000ml of M4BB3 + 5.00000ml of M440B + 5.00000ml of M5565 + 39.55000ml of MP76115 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM F8 R TUN_	MP76132	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/03/2023

FROM 0.01000ml of M546B + 9.99000ml of MP76115 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3B94	TUN_ 200PPK	MP76135	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/03/2023

FROM 2.00000ml of M5231 + 2.00000ml of MP76132 + 96.00000ml of MP76115 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP76136	07/03/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C8)AE	Kin He 07/03/2023

FROM 5.00000ml of M5597 + 75.00000ml of M544B + 170.00000ml of MP76115 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7)SFAM,6020,200.BE	MP76237	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C8)AE	Kin He 07/12/2023

FROM 1.00000ml of M4B75 + 1.00000ml of M4BB4 + 1.00000ml of M4BB6 + 1.00000ml of M5229 + 1.00000ml of M5230 + 1.90000ml of M52B9 + 10.00000ml of M4BBB + 10.00000ml of M5192 + 10.00000ml of M5599 + 2.00000ml of M5019 + 2.00000ml of M5020 + 2.50000ml of M5473 + 4.00000ml of M4BB1 + 4.00000ml of M53B7 + 4.90000ml of M5201 + 4.90000ml of M529B + 5.00000ml of M5606 + 50.00000ml of M5301 + B27.00000ml of W2606 + 9.00000ml of M4B91 + 9.00000ml of M51B4 + 9.00000ml of M5521 + 9.90000ml of M5193 + 9.90000ml of M5200 + 9.90000ml of M546B = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
394B	S6)SFAM,6020,200.BE	MP7623B	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 48.50000ml of W2606 + 50.00000ml of MP76237 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5)SFAM,6020,200.BE	MP76239	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 73.50000ml of W2606 + 25.00000ml of MP76237 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3954	S4)SFAM,6020,200.BE	MP76240	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + B6.00000ml of W2606 + 12.50000ml of MP76237 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3)SFAM, 6020,200.BE	MP76241	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + BB.50000ml of W2606 + 10.00000ml of MP7623B = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2C8 NC)SFAM,6020,200.BE	MP76242	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.05000ml of M476B + 0.05000ml of M4B25 + 0.05000ml of M4B74 + 0.05000ml of M4B76 + 0.05000ml of M4B77 + 0.05000ml of M4BB1 + 0.05000ml of M4BB5 + 0.05000ml of M4BB9 + 0.05000ml of M51B4 + 0.05000ml of M5229 + 0.05000ml of M5230 + 0.05000ml of M5469 + 0.10000ml of M4657 + 0.10000ml of M4B91 + 0.10000ml of M5224 + 0.10000ml of M52B9 + 0.10000ml of M5521 + 0.25000ml of M4BB3 + 0.25000ml of M4BB6 + 0.25000ml of M4BBB + 0.25000ml of M5192 + 0.25000ml of M5227 + 0.25000ml of M529B + 0.50000ml of M4BB4 + 0.50000ml of M53B7 + 1.25000ml of M4B75 + 1.25000ml of M4BB0 + 1.25000ml of M4BB2 + 2.50000ml of M5193 + 2.50000ml of M5200 + 2.50000ml of M5201 + 2.50000ml of M546B + 2.50000ml of M5606 + 225.15000ml of W2606 + 5.00000ml of M5599 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2)SFAM,6020,200.BE	MP76243	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + 9B.00000ml of W2606 + 0.50000ml of MP76242 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1)SFAM,6020,200.BE	MP76244	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.50000ml of M5606 + 1.00000ml of M5599 + BB.50000ml of W2606 + 10.00000ml of MP76243 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP76245	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C3)AE	Kin He 07/12/2023

FROM 0.50000ml of M4B75 + 0.50000ml of M4BB4 + 0.50000ml of M4BB6 + 0.50000ml of M5019 + 0.50000ml of M5229 + 0.50000ml of M5230 + 1.00000ml of M5020 + 10.00000ml of M5599 + 12.45000ml of M529B + 12.50000ml of M5469 + 2.00000ml of M4BB1 + 24.95000ml of M5193 + 24.95000ml of M5200 + 24.95000ml of M5201 + 24.95000ml of M546B + 25.00000ml of M5301 + 4.50000ml of M4B91 + 4.50000ml of M51B4 + 4.50000ml of M5521 + 4.95000ml of M52B9 + 5.00000ml of M5192 + 5.00000ml of M5606 + B05.B0000ml of W2606 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3963	C8 NC.LCSW SPI(_	MP76246	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C8)AE	Kin He 07/12/2023

FROM 0.05000ml of M476B + 0.05000ml of M4B25 + 0.05000ml of M4B74 + 0.05000ml of M4B76 + 0.05000ml of M4B77 + 0.05000ml of M4BB1 + 0.05000ml of M4BB5 + 0.05000ml of M4BB9 + 0.05000ml of M51B4 + 0.05000ml of M5229 + 0.05000ml of M5230 + 0.05000ml of M5469 + 0.10000ml of M4657 + 0.10000ml of M5224 + 0.10000ml of M52B9 + 0.10000ml of M5521 + 0.25000ml of M4707 + 0.25000ml of M4BB3 + 0.25000ml of M4BB6 + 0.25000ml of M4BBB + 0.25000ml of M4B91 + 0.25000ml of M5192 + 0.50000ml of M4BB4 + 0.50000ml of M53B7 + 1.00000ml of M529B + 1.25000ml of M4B75 + 1.25000ml of M4BB0 + 1.25000ml of M4BB2 + 2.50000ml of M5193 + 2.50000ml of M5200 + 2.50000ml of M5201 + 2.50000ml of M546B + 2.50000ml of M5606 + 224.25000ml of W2606 + 5.00000ml of M5599 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3964	C8 NC.LCSS SPI(_	MP76247	07/07/2023	07/24/2023	Sarabjit Jaswal	None	M_TALSCPIP _TT_C8)AE	Kin He 07/12/2023

FROM 0.25000ml of M476B + 0.25000ml of M4B25 + 0.25000ml of M4B74 + 0.25000ml of M4B76 + 0.25000ml of M4B77 + 0.25000ml of M4BB1 + 0.25000ml of M4BB5 + 0.25000ml of M4BB9 + 0.25000ml of M51B4 + 0.25000ml of M5229 + 0.25000ml of M5230 + 0.25000ml of M5473 + 0.50000ml of M4657 + 0.50000ml of M5224 + 0.50000ml of M52B9 + 0.50000ml of M5521 + 1.25000ml of M4707 + 1.25000ml of M4BB3 + 1.25000ml of M4BB6 + 1.25000ml of M4BBB + 1.25000ml of M4B91 + 1.25000ml of M5192 + 12.50000ml of M5193 + 12.50000ml of M5200 + 12.50000ml of M5201 + 12.50000ml of M546B + 151.25000ml of W2606 + 2.50000ml of M4BB4 + 2.50000ml of M53B7 + 2.50000ml of M5606 + 5.00000ml of M529B + 5.00000ml of M5599 + 6.25000ml of M4B75 + 6.25000ml of M4BB0 + 6.25000ml of M4BB2 = Final Quantity: 250.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	P2-MEB683701	08/21/2023	09/25/2020 / jaswal	08/27/2019 / BIN	M4408

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	082620	08/26/2023	11/11/2020 / bin	10/28/2020 / bin	M4657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGV1-1 / VANADIUM 125mL 1000ug/mL	P2-V685591	12/05/2023	11/21/2020 / bin	08/21/2020 / bin	M4707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	072420	07/24/2023	02/26/2021 / BIN	10/28/2020 / BIN	M4768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	020821	02/08/2024	05/23/2021 / jaswal	05/18/2021 / jaswal	M4825

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Arsenic (As)	012521	01/25/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4874

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Boron (B)	031921	03/19/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	030221	03/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	051121	05/11/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4880

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	062221	06/22/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4881

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	051721	05/17/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4882

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	021121	02/11/2024	08/05/2021 / jaswal	08/05/2021 / jaswal	M4886

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	03/19/2024	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	011421	01/14/2024	12/13/2021 / bin	12/09/2021 / bin	M5019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	032921	03/29/2024	12/13/2021 / bin	12/09/2021 / bin	M5020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	060122	06/01/2025	07/01/2022 / bin	06/02/2022 / jaswal	M5184

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	082021	08/20/2024	06/23/2022 / bin	09/25/2021 / bin	M5193

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	062321	06/23/2024	06/23/2022 / bin	10/05/2021 / bin	M5201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	073021	07/30/2024	11/27/2022 / jaswal	07/05/2022 / bin	M5229

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	073021	07/30/2024	05/08/2023 / jaswal	07/05/2022 / bin	M5230

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / TUNE-A,	R2-MEB695520	11/26/2023	11/27/2022 / jaswal	07/06/2022 / jaswal	M5231

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	08/01/2023	08/02/2022 / jaswal	02/20/2020 / jaswal	M5245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	12/12/2023	06/12/2023 / jaswal	02/20/2020 / bin	M5293

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	05/01/2022 / jaswal	04/01/2022 / jaswal	M5301

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	S2-MEB709511	03/06/2024	03/07/2023 / jaswal	04/01/2022 / jaswal	M5448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	09/07/2023	03/07/2023 / Al-Terek	02/24/2022 / Al-Terek	M5449

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5469

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/29/2025	03/16/2023 / jaswal	03/16/2023 / jaswal	M5473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102622	10/26/2025	11/21/2022 / bin	11/20/2022 / bin	M5521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	22D1462006	12/14/2023	06/13/2023 / Al-Terek	02/24/2022 / Al-Terek	M5587

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	01/12/2028	06/29/2023 / Al-Terek	01/22/2023 / Al-Terek	M5599

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	07/05/2023 / Al-Terek	04/11/2022 / Al-Terek	M5606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	P2-MEB683701
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**100.0 ± 0.7 µg/mL**	**Arsenic, As**	**40.00 ± 0.21 µg/mL**
Cadmium, Cd	**49.98 ± 0.22 µg/mL**	**Lead, Pb**	**20.00 ± 0.09 µg/mL**
Selenium, Se	**10.00 ± 0.06 µg/mL**	**Thallium, Tl**	**50.02 ± 0.26 µg/mL**

Density: 1.013 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 21, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 21, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

ICSA: M5244

ICSB: M5245

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.10)	-1.9	2.1	19.0	16.2	21.9
Ba	10	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0.0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.70)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.30)	-9.7	10.0	(19.0)	9.0	29.0
Ag	1.0	(0.0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0.0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.50)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

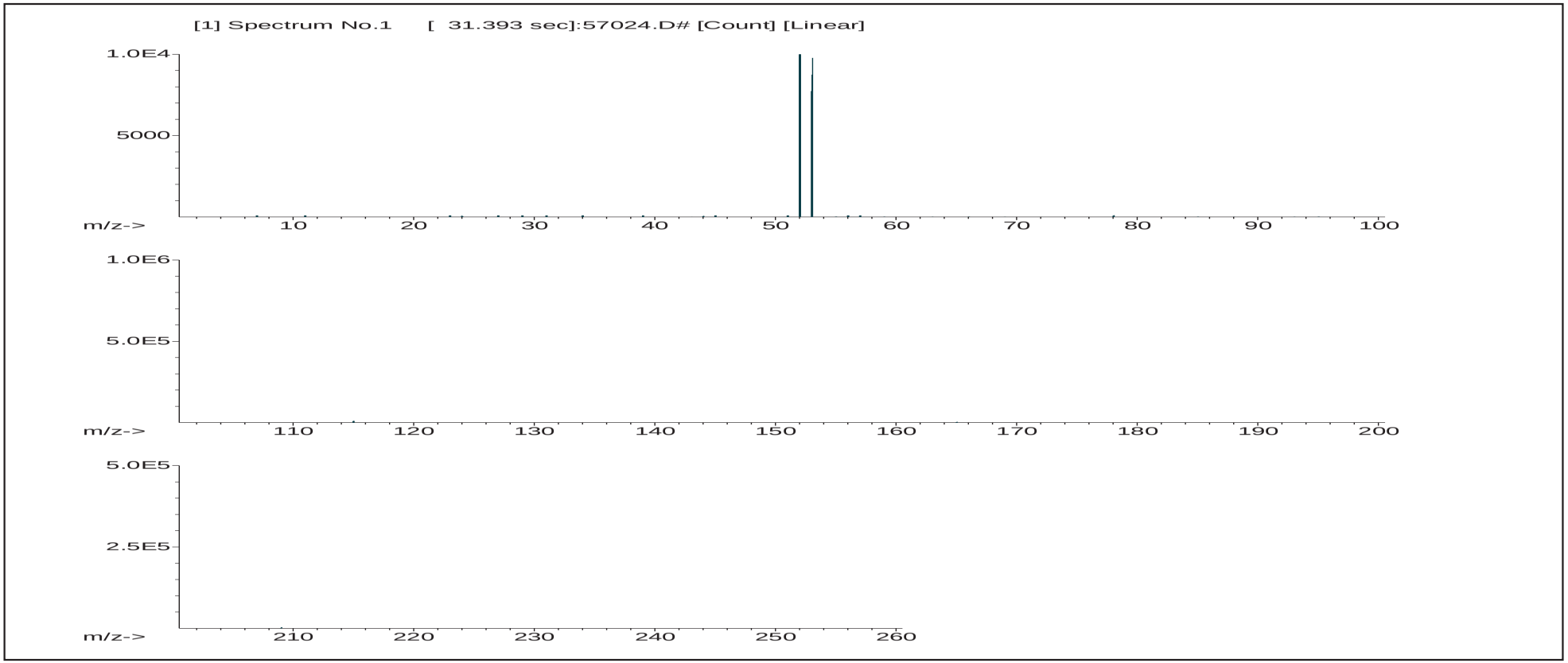
CERTIFIED WEIGHT REPORT:

				Lot #	**Solvent:**	
Part Number:	**58024**			19410105	Nitric Acid	
Lot Number:	**082620**					
Description:	**Chromium (Cr)**					
				2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	082623					
Recommended Storage:	Ambient (20 ºC)					
Nominal Concentration (µg/mL):	**1000**					
NIST Test Number:	23060		5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):		2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082620
Reviewed By:	Pedro L. Rentas	082620

261

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Chromium (III) nitrate nonahydrate (Cr)	58124	121619	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



262

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV1
Lot Number:	P2-V685591
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Vanadium
Starting Material:	V2O5
Starting Material Lot#:	1782
Starting Material Purity:	99.9939%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 4 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 5 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **1002 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1000 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000273	M	Eu	<	0.000118	O	Na		0.010915	M	Se	<	0.001167	M	Zn	<	0.006080
M	Al		0.006218	M	Fe		0.023106	M	Nb	<	0.001479	O	Si		0.036363	M	Zr	<	0.003181
M	As	<	0.000540	M	Ga	<	0.009451	M	Nd	<	0.000118	M	Sm	<	0.000118				
M	Au	<	0.000191	M	Gd	<	0.000118	M	Ni	<	0.003169	M	Sn	<	0.000733				
M	B	<	0.002950	M	Ge	<	0.000434	M	Os	<	0.000150	M	Sr		0.000060				
M	Ba	<	0.001024	M	Hf	<	0.000118	O	P	<	0.056000	M	Ta	<	0.000118				
M	Be	<	0.000118	M	Hg	<	0.000170	M	Pb		0.000241	M	Tb	<	0.000118				
M	Bi	<	0.000363	M	Ho	<	0.000118	M	Pd	<	0.000140	M	Te	<	0.002236				
O	Ca		0.011869	M	In	<	0.000118	M	Pr	<	0.000118	M	Th	<	0.000118				
M	Cd	<	0.000145	M	Ir	<	0.000118	M	Pt	<	0.000118	M	Ti		0.001386				
M	Ce	<	0.000245	M	K		0.002082	M	Rb	<	0.000118	M	Tl	<	0.000118				
M	Co	<	0.000119	M	La	<	0.000118	M	Re	<	0.000118	M	Tm	<	0.000118				
O	Cr		0.017206	M	Li	<	0.000501	M	Rh	<	0.000118	M	U	<	0.000395				
M	Cs		0.000477	M	Lu	<	0.000118	M	Ru	<	0.000118	s	V	<					
M	Cu	<	0.002021	M	Mg		0.000612	n	S	<		M	W		0.000174				
M	Dy	<	0.000118	M	Mn		0.000649	M	Sb		0.008706	M	Y	<	0.000118				
M	Er	<	0.000118	O	Mo		0.007182	M	Sc	<	0.000118	M	Yb	<	0.000118				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M4768 R: 10/28/2020 (BH)

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

267

CERTIFIED WEIGHT REPORT:

Part Number: 57028
Lot Number: 072420
Description: Nickel (Ni)

Expiration Date: 072423
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 23060
Volume shown below was diluted to (mL): 2000.02

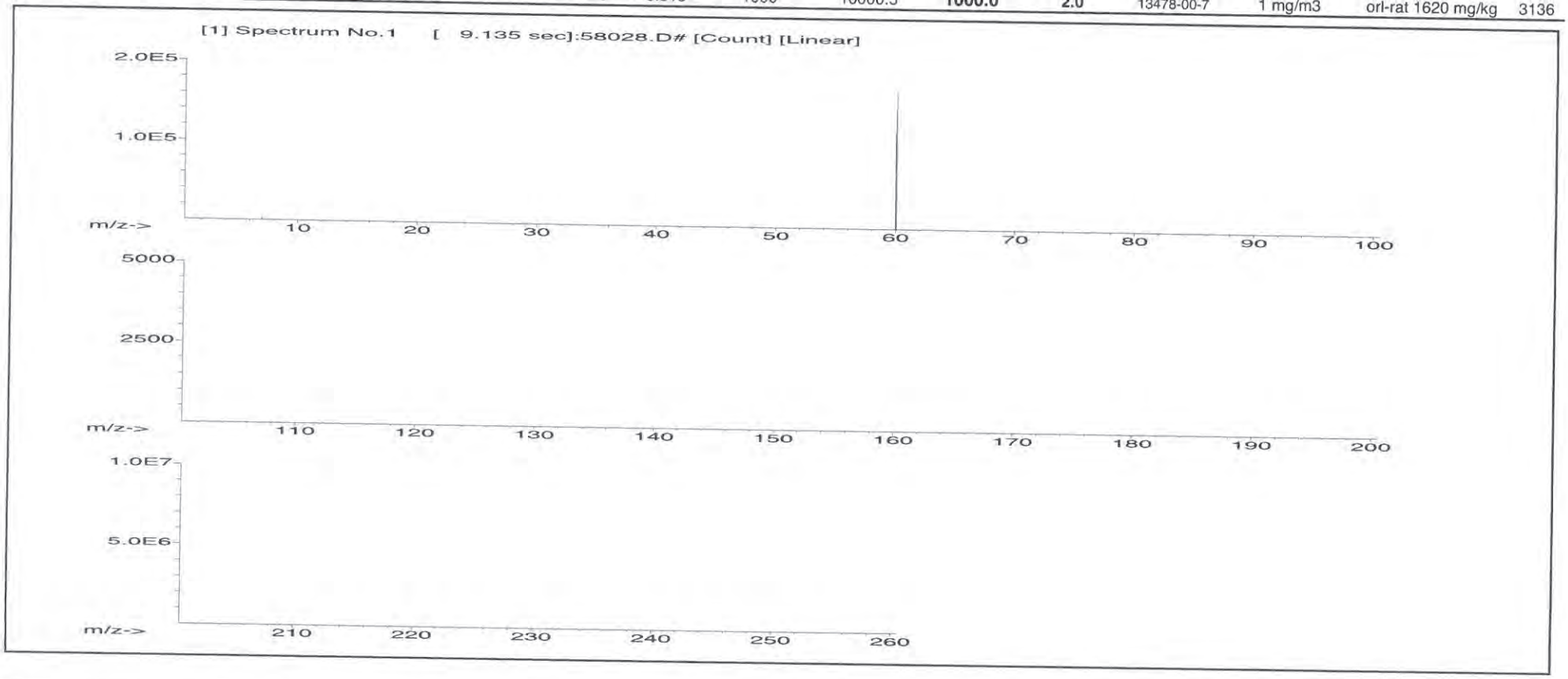
	Lot #	Solvent:	
	19410105	Nitric Acid	
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 072420

Reviewed By: Pedro L. Rentas 072420

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel (II) nitrate Hexahydrate (Ni)	58128	082719	0.1000	200.0	0.013	1000	10000.5	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



268

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

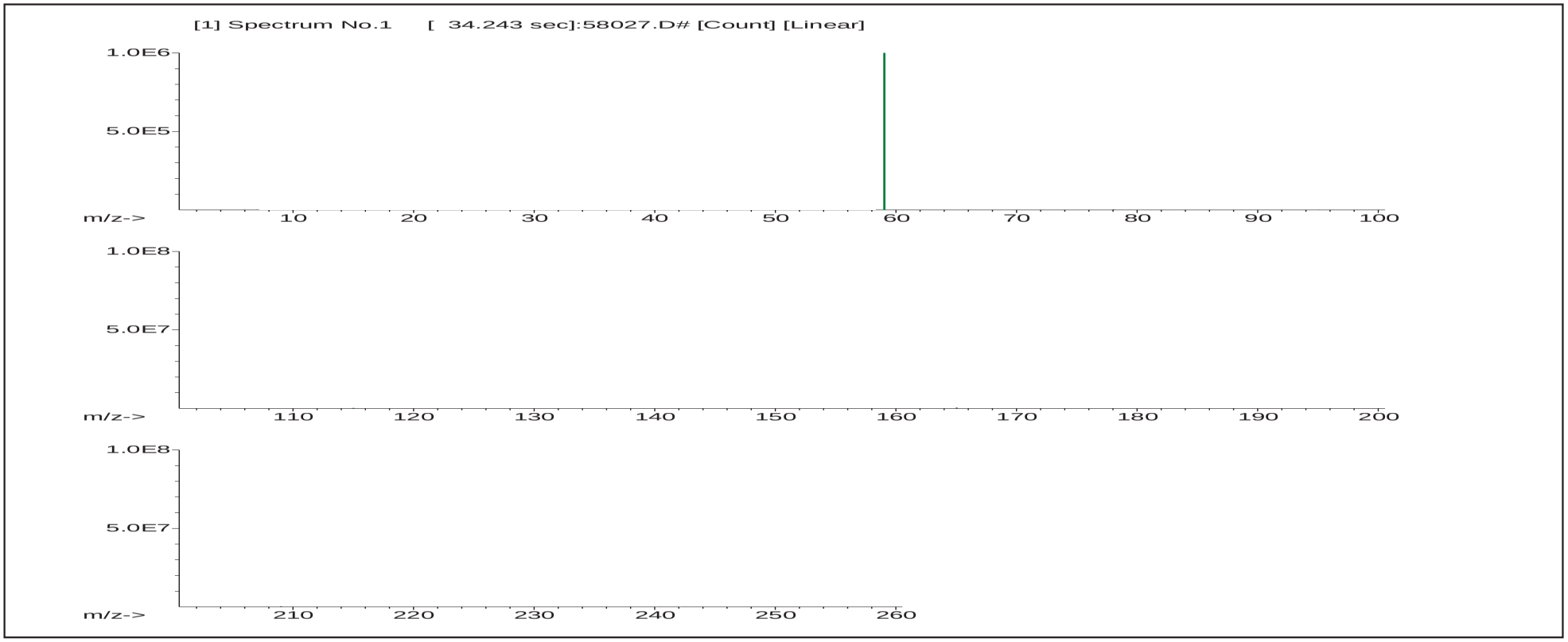
269

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57027**	19410105	Nitric Acid
Lot Number:	**020821**		
Description:	**Cobalt (Co)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	020824		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty

Formulated By:	Lawrence Barry	020821
Reviewed By:	Pedro L. Rentas	020821

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt nitrate hexahydrate (Co)	58127	062320	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10026-22-9	5 mg/m3	orl-rat 694 mg/kg	3113



270

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

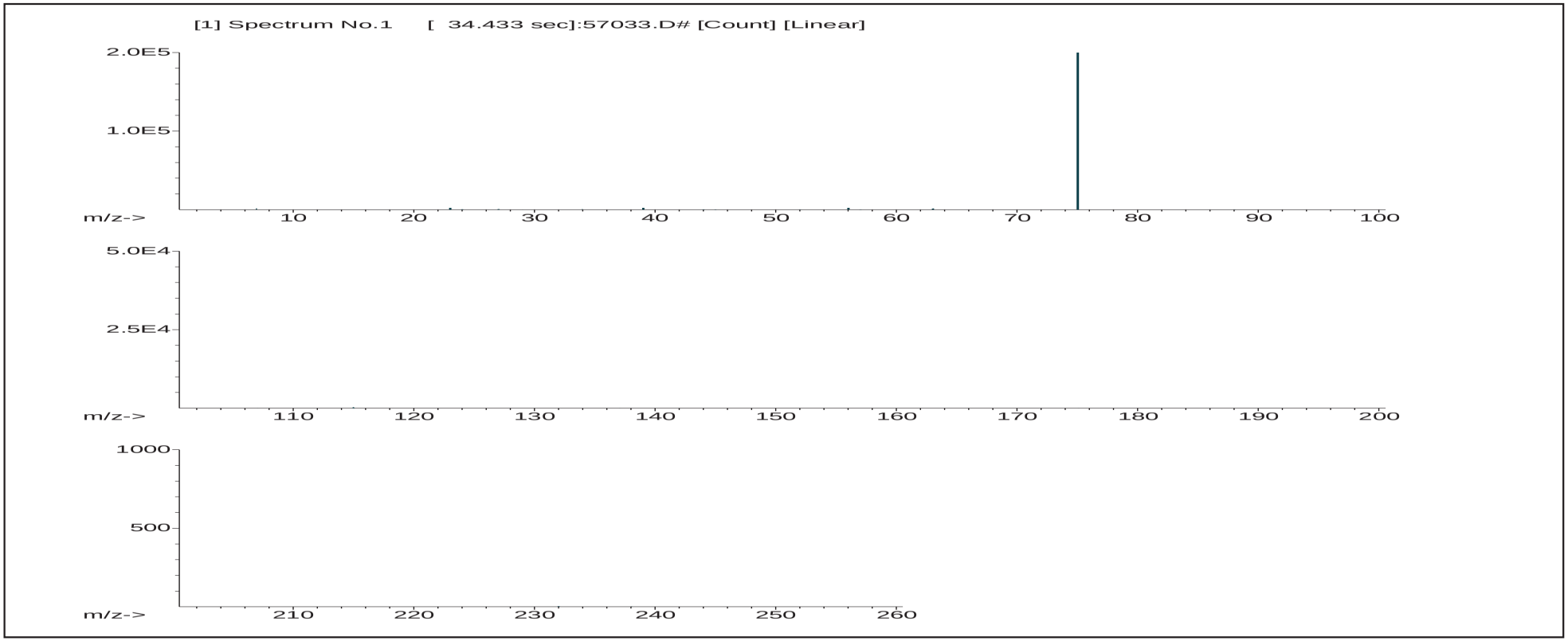
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57033**	19410105	Nitric Acid
Lot Number:	**012521**		
Description:	**Arsenic (As)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	012524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	23060	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	012521
Reviewed By:	Pedro L. Rentas	012521

271

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	092220	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-38-2	0.2 mg/m3	orl-rat 763 mg/kg	3103a



272

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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273

CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 031921
Description: Boron (B)

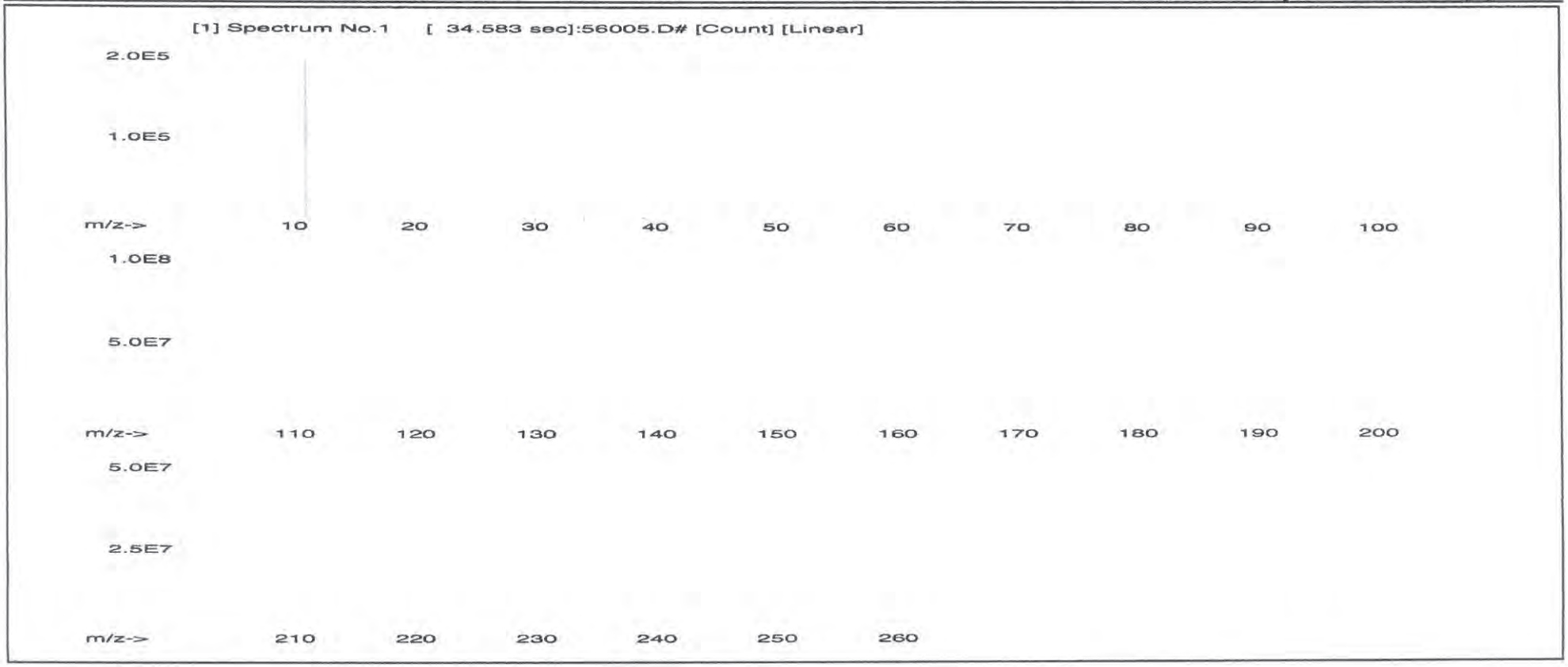
Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
2.0%	40.0 (mL)	Ammonium hydroxide	

Expiration Date: 031924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 031921

Pedro Rentas
Reviewed By: Pedro L. Rentas 031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	58105	063020	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



274

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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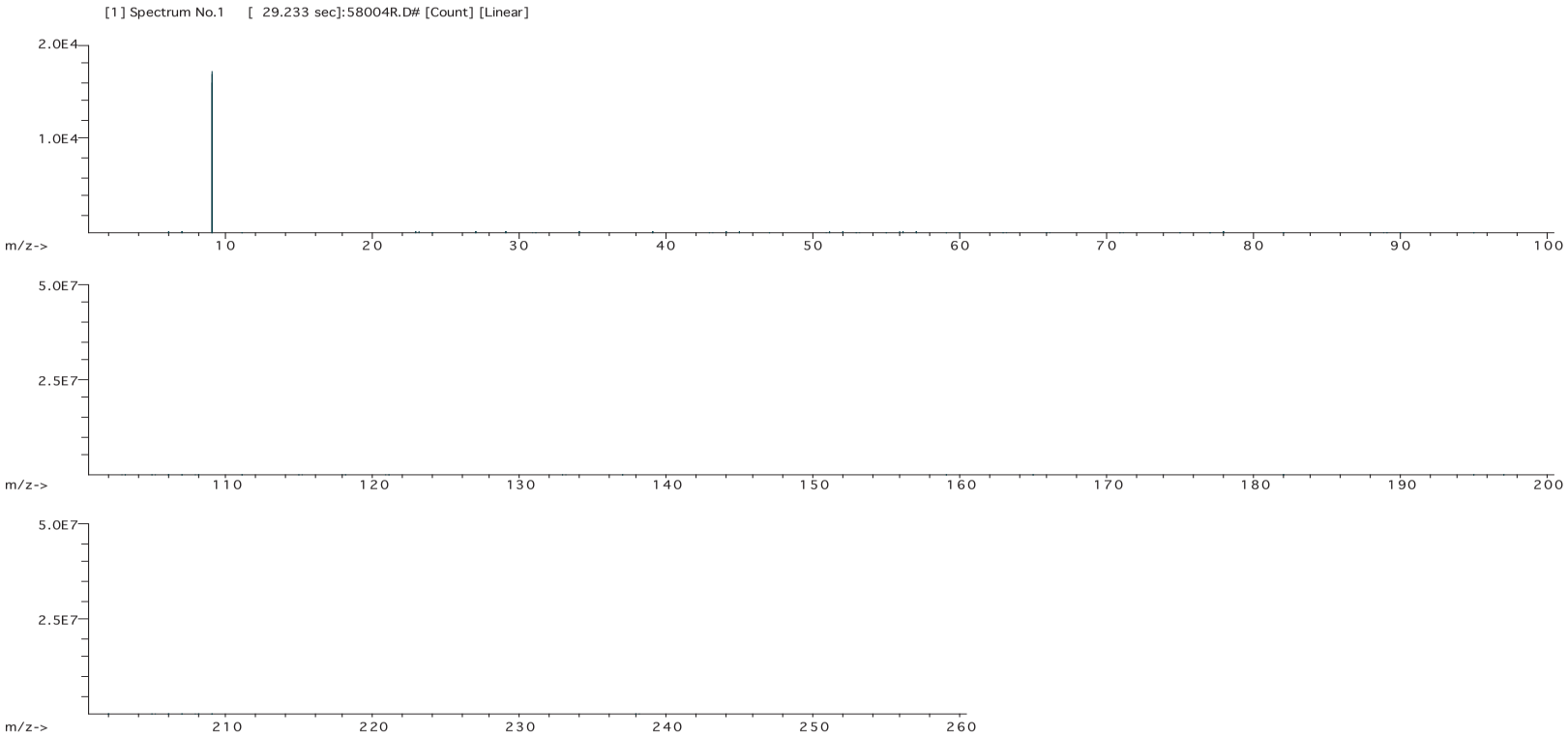
CERTIFIED WEIGHT REPORT:

275

		Lot #	Solvent:	
Part Number:	**57004**	19410105	Nitric Acid	
Lot Number:	**030221**			
Description:	**Beryllium (Be)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	030224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030221
Reviewed By:	Pedro L. Rentas	030221

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Beryllium acetate basic (Be)	58104	063020	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	19049-40-2	0.002 mg/m3	orl-rat 28 mg/kg	3105a



276

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

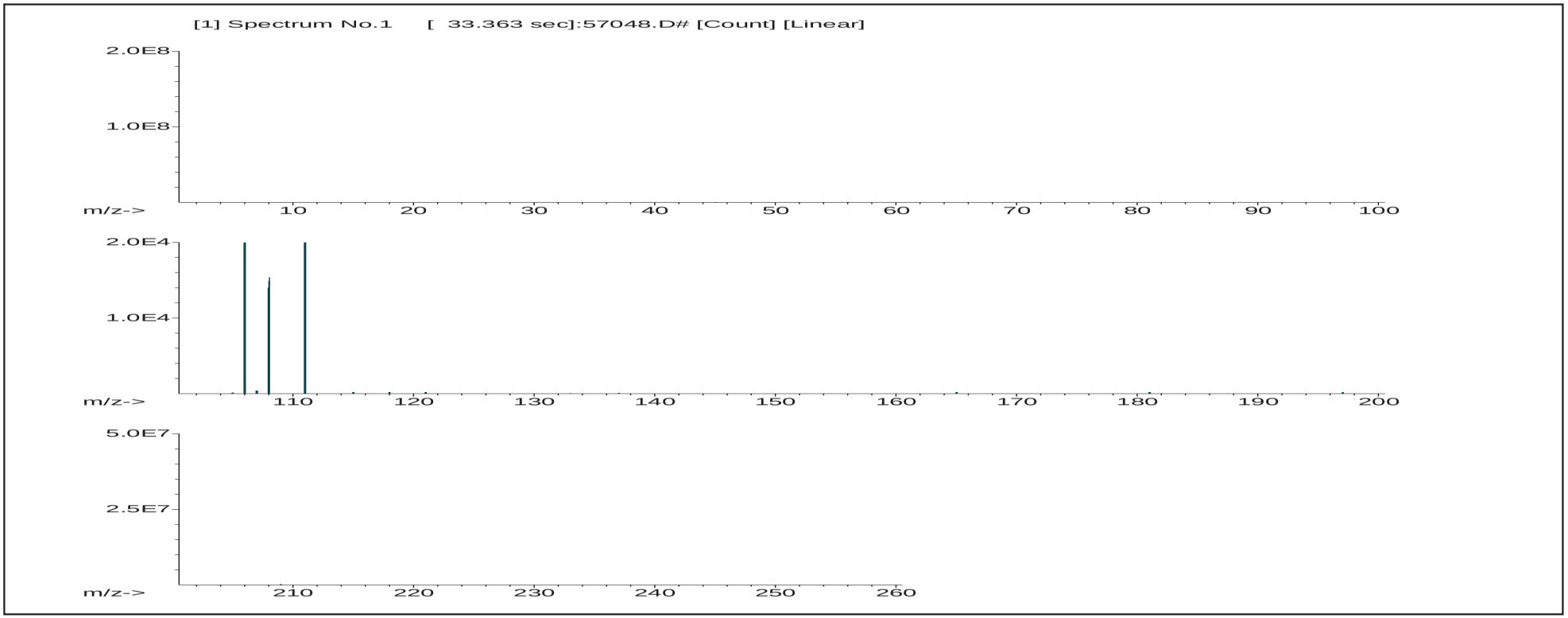
Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

277

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



278

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

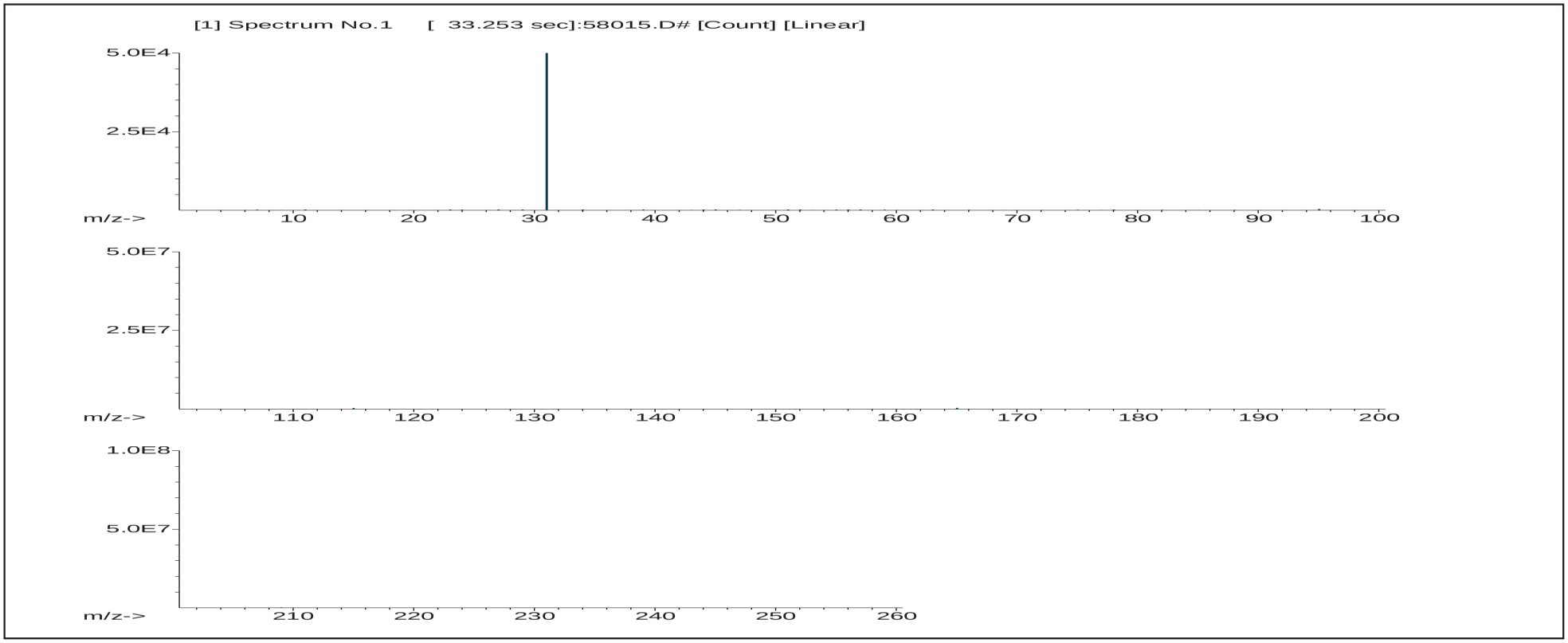
279

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57015**	20370011	Nitric Acid	
Lot Number:	**051121**			
Description:	**Phosphorous (P)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	051124			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	051121
Reviewed By:	Pedro L. Rentas	051121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	58115	121020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7722-76-1	5 mg/m3	NA	3186



280

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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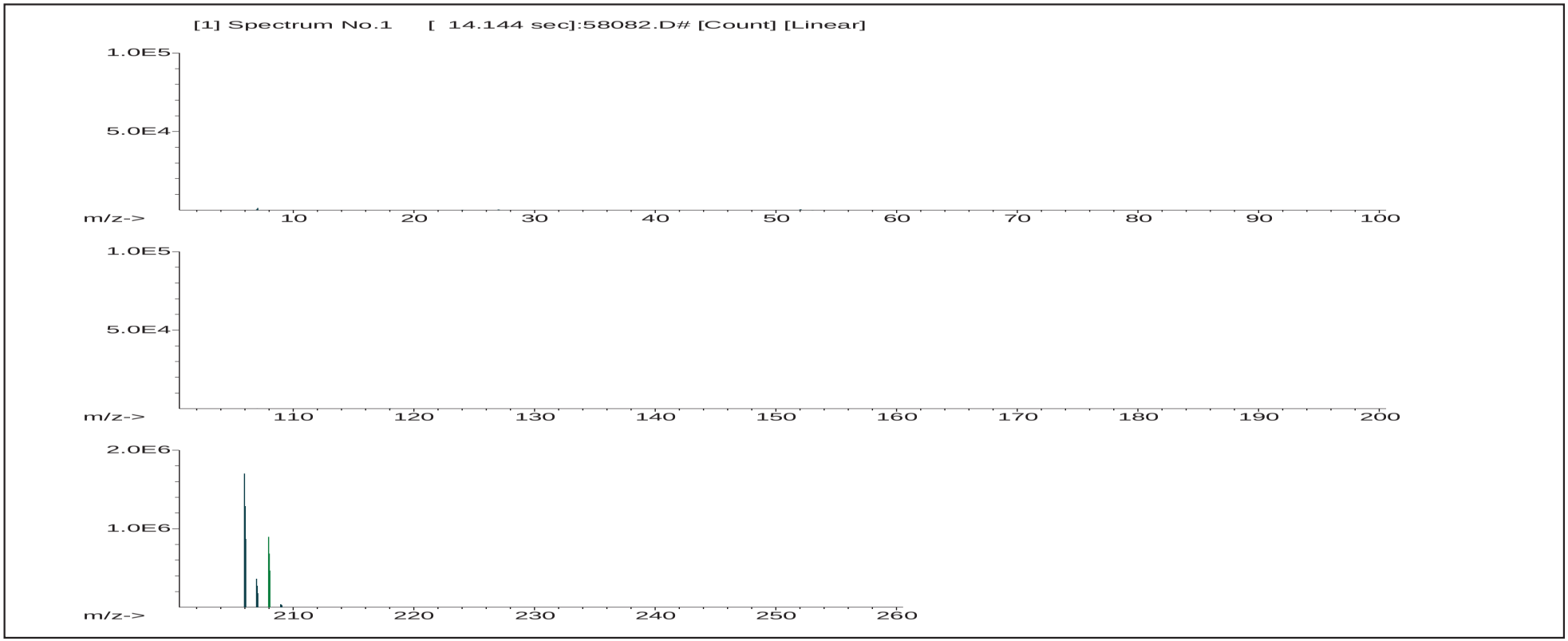
281

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57082**	20370011	Nitric Acid	
Lot Number:	**062221**			
Description:	**Lead (Pb)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	062221
Reviewed By:	Pedro L. Rentas	062221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead (II) Nitrate (Pb)	58182	032321	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



282

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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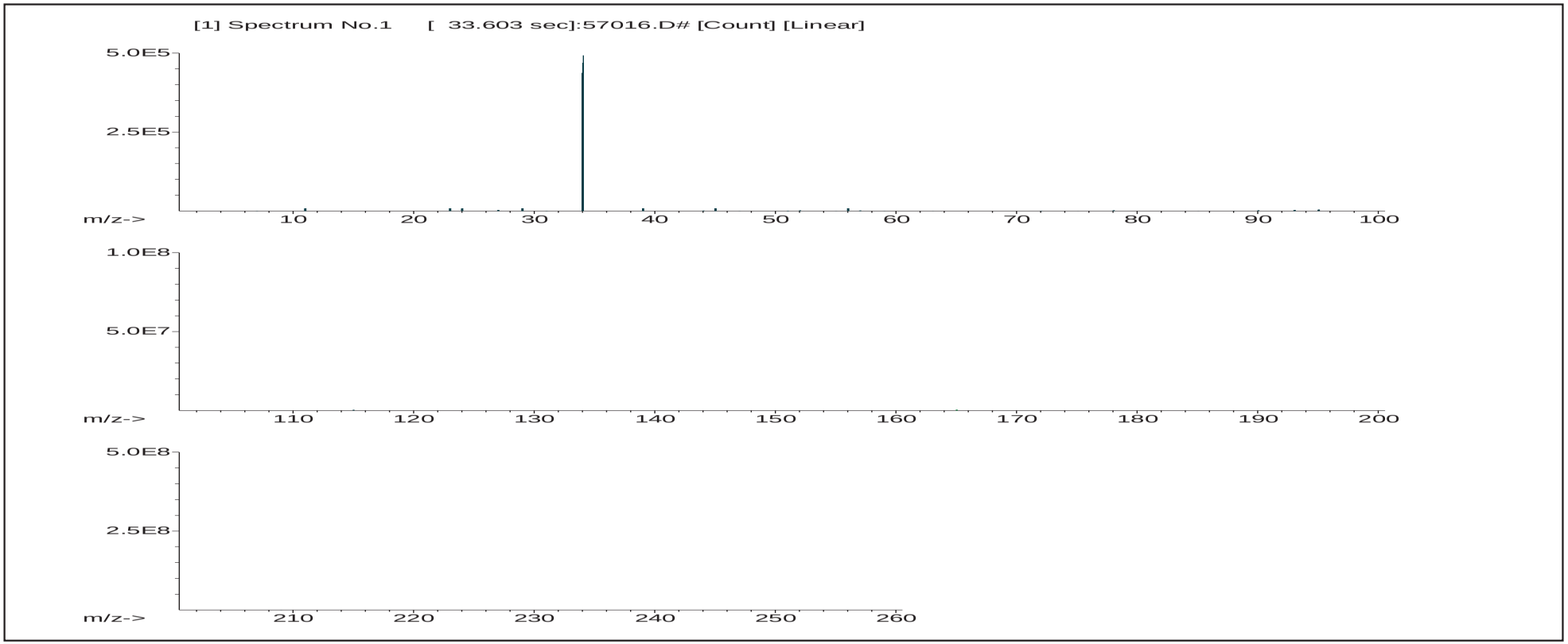
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57016**	051721	ASTM Type 1 Water
Lot Number:	**051721**		
Description:	**Sulfur (S)**		

Expiration Date:	051724
Recommended Storage:	Ambient (20 ºC)
Nominal Concentration (µg/mL):	**1000**
NIST Test Number:	6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL):	1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051721
Reviewed By:	Pedro L. Rentas	051721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	58116	011421	0.1000	199.9	0.084	1000	10000.2	**1000.0**	**2.2**	7783-20-2	NA	NA	3181



284

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

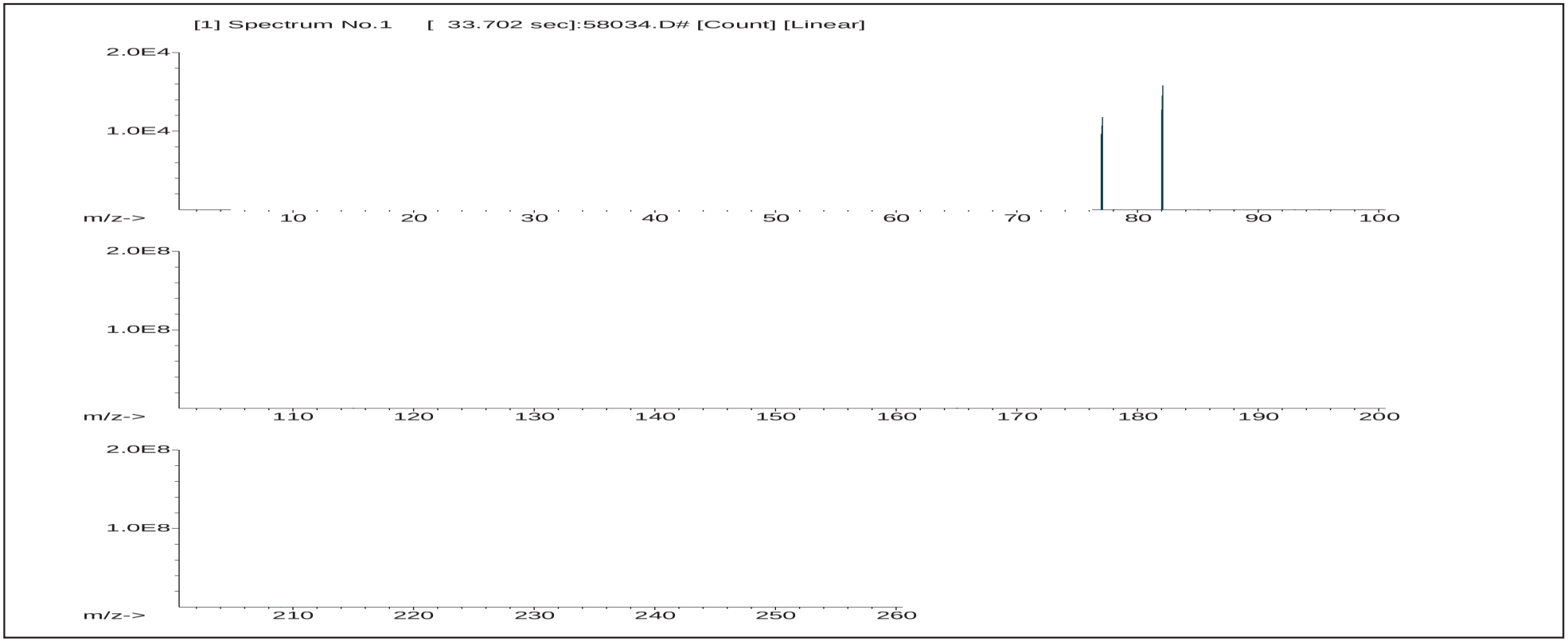
Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

285

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



286

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

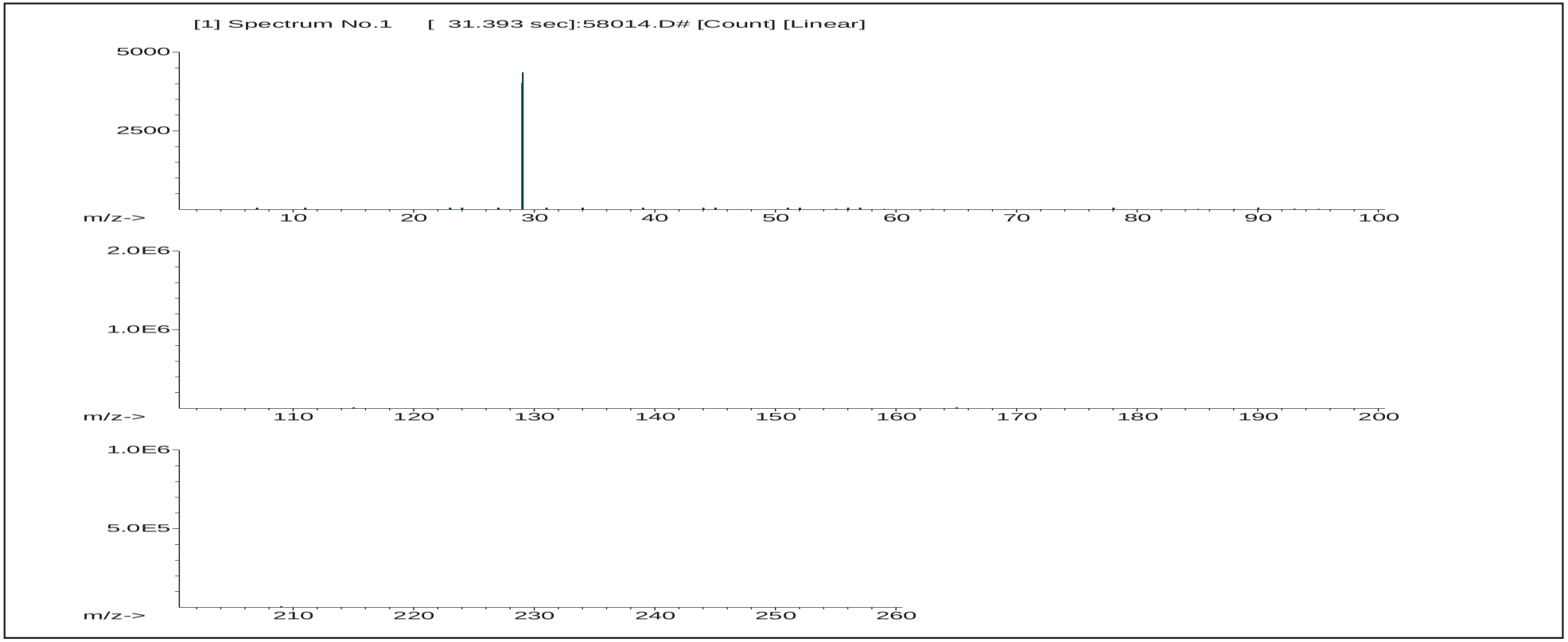
287

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	030921
Reviewed By:	Pedro L. Rentas	030921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



288

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57047**	20370011	Nitric Acid
Lot Number:	**072921**		
Description:	**Silver (Ag)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	072924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Giovanni Esposito

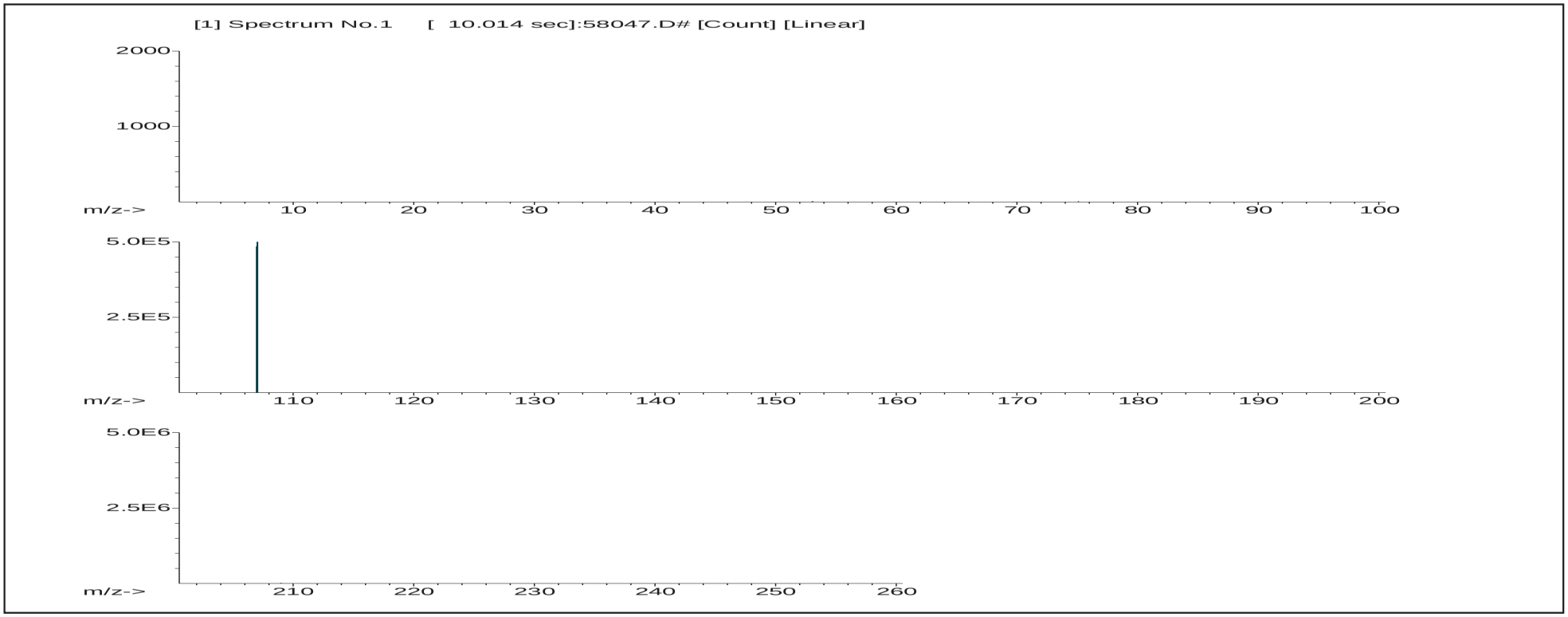
Formulated By:	Giovanni Esposito	072921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072921

289

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



290

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

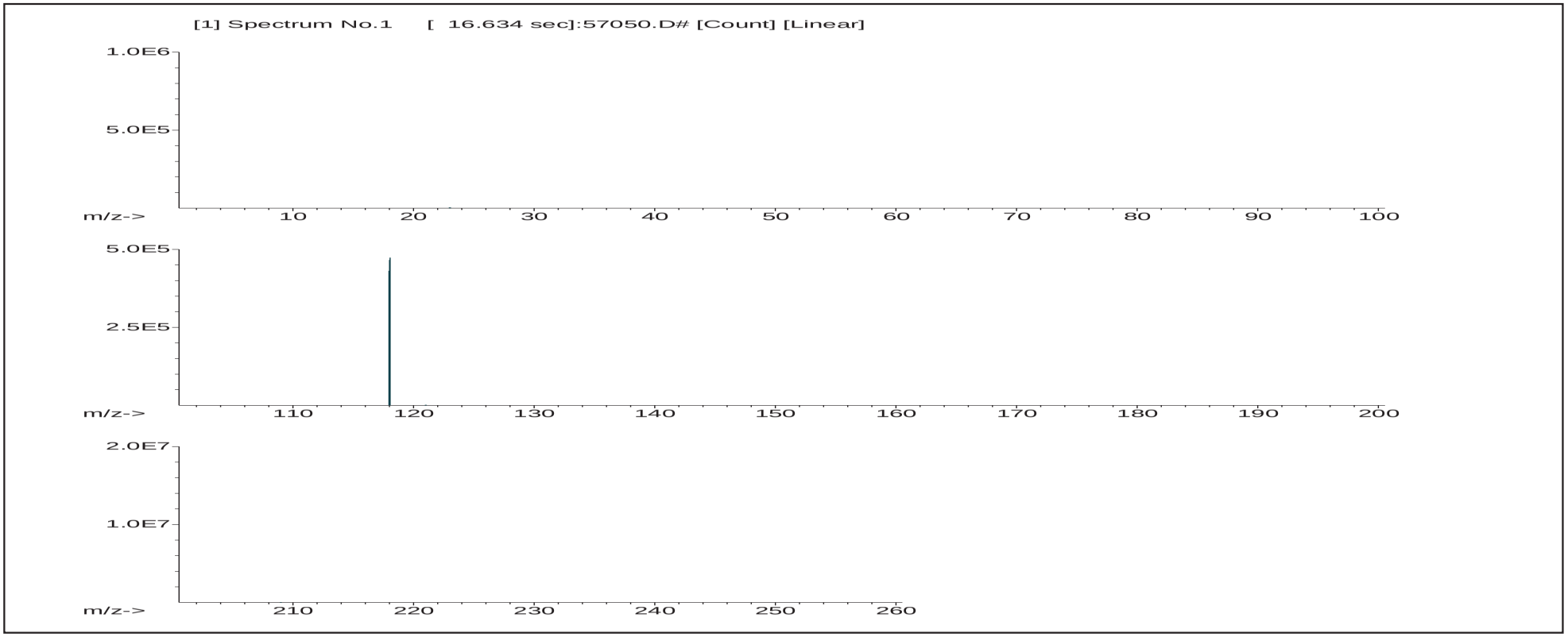
291

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57050**	19410105	Nitric Acid	
Lot Number:	**021121**	240241	Hydrochloric acid	
Description:	**Tin (Sn)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	021124	6.0%	120.0	Hydrochloric acid
Recommended Storage:	Ambient (20 ºC)		(mL)	
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	23060	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	1999.78	0.265	Flask Uncertainty	

Formulated By:	Lawrence Barry	021121
Reviewed By:	Pedro L. Rentas	021121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate (IV) (Sn)	58150	041620	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	16919-24-7	7 mg/m3	NA	3161a



292

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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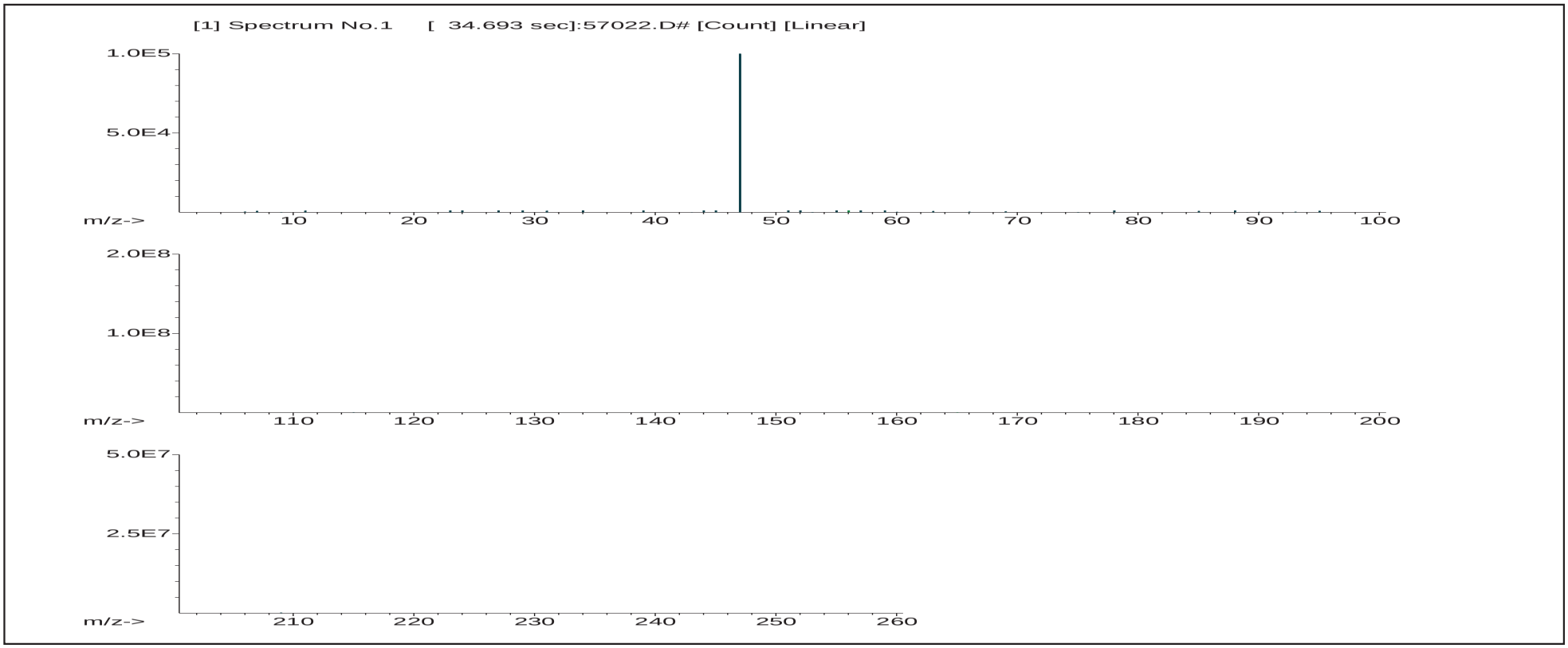
293

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57022**	20370011	Nitric Acid
Lot Number:	**070721**		
Description:	**Titanium (Ti)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	070724		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

Formulated By:	Lawrence Barry	070721
Reviewed By:	Pedro L. Rentas	070721

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



294

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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295

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57081**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Thallium (Tl)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

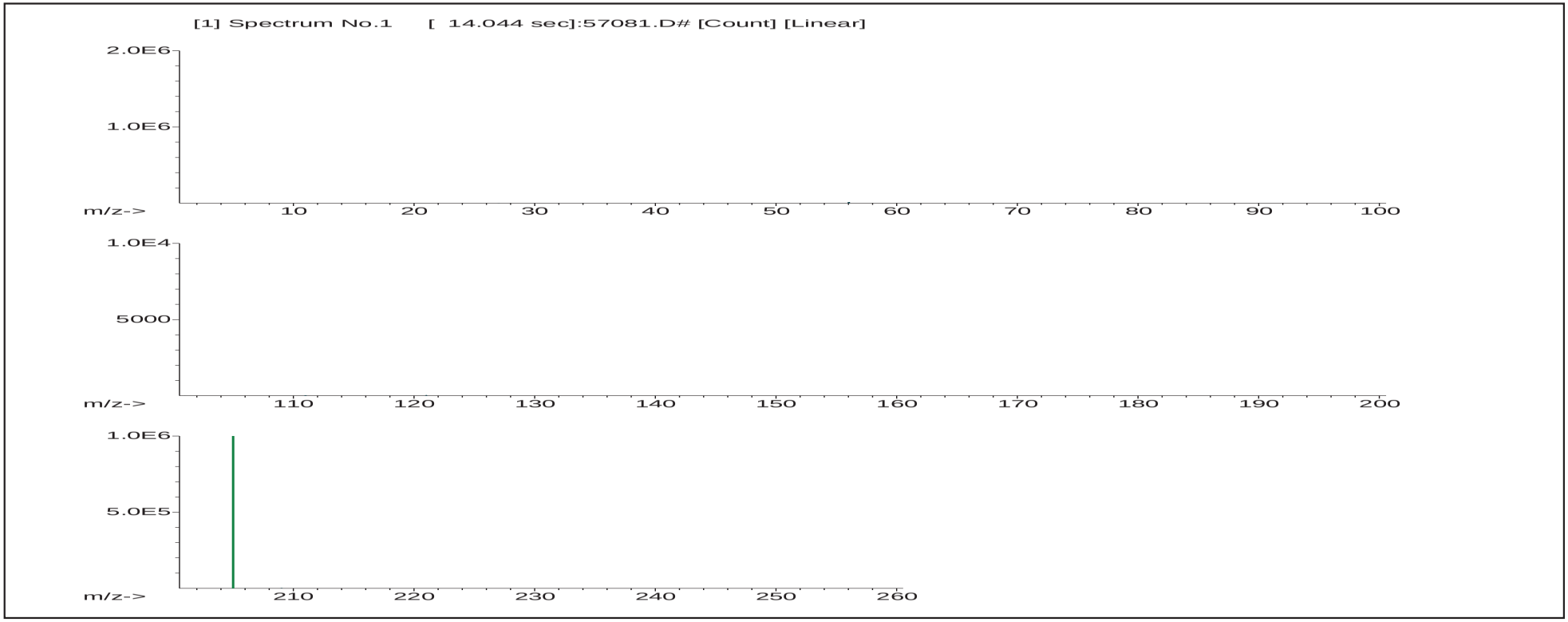
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



296

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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297

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58030**	20370011	Nitric Acid
Lot Number:	**031921**		
Description:	**Zinc (Zn)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	031924		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty

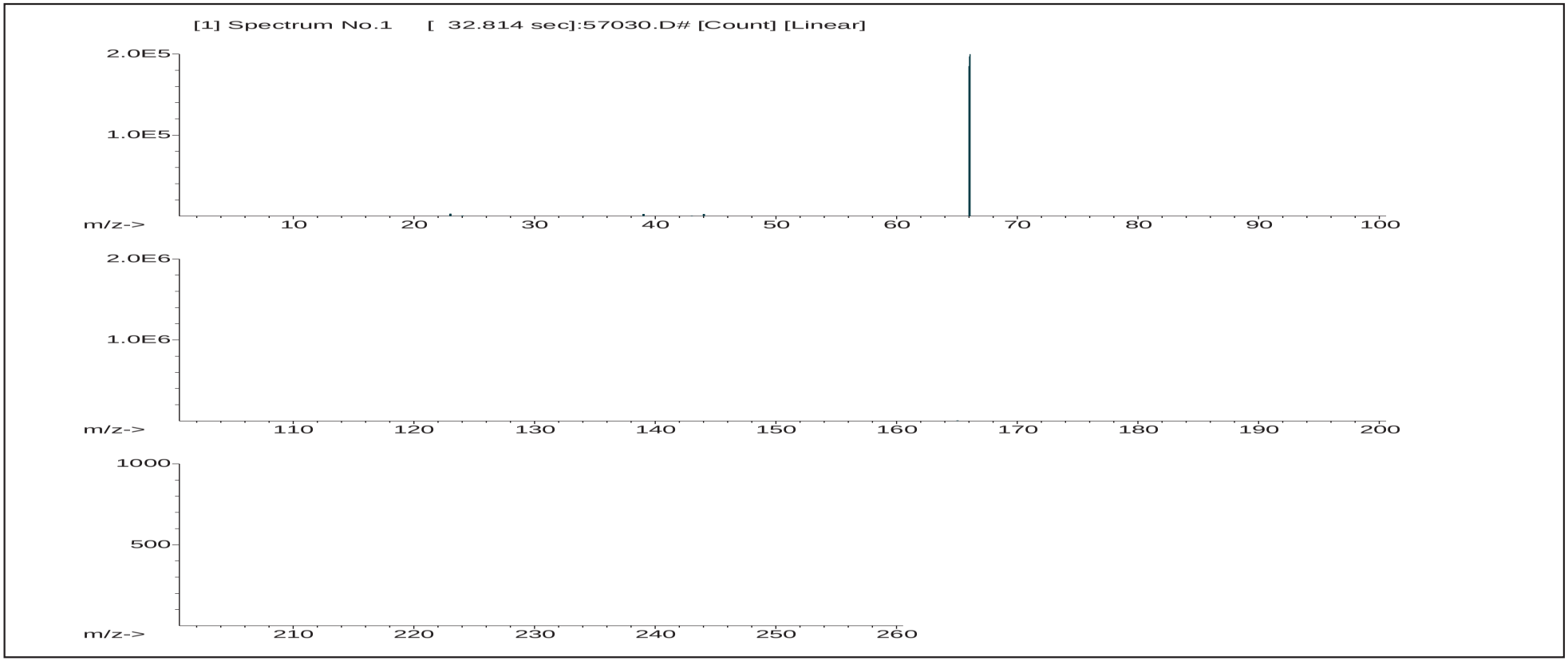
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



298

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

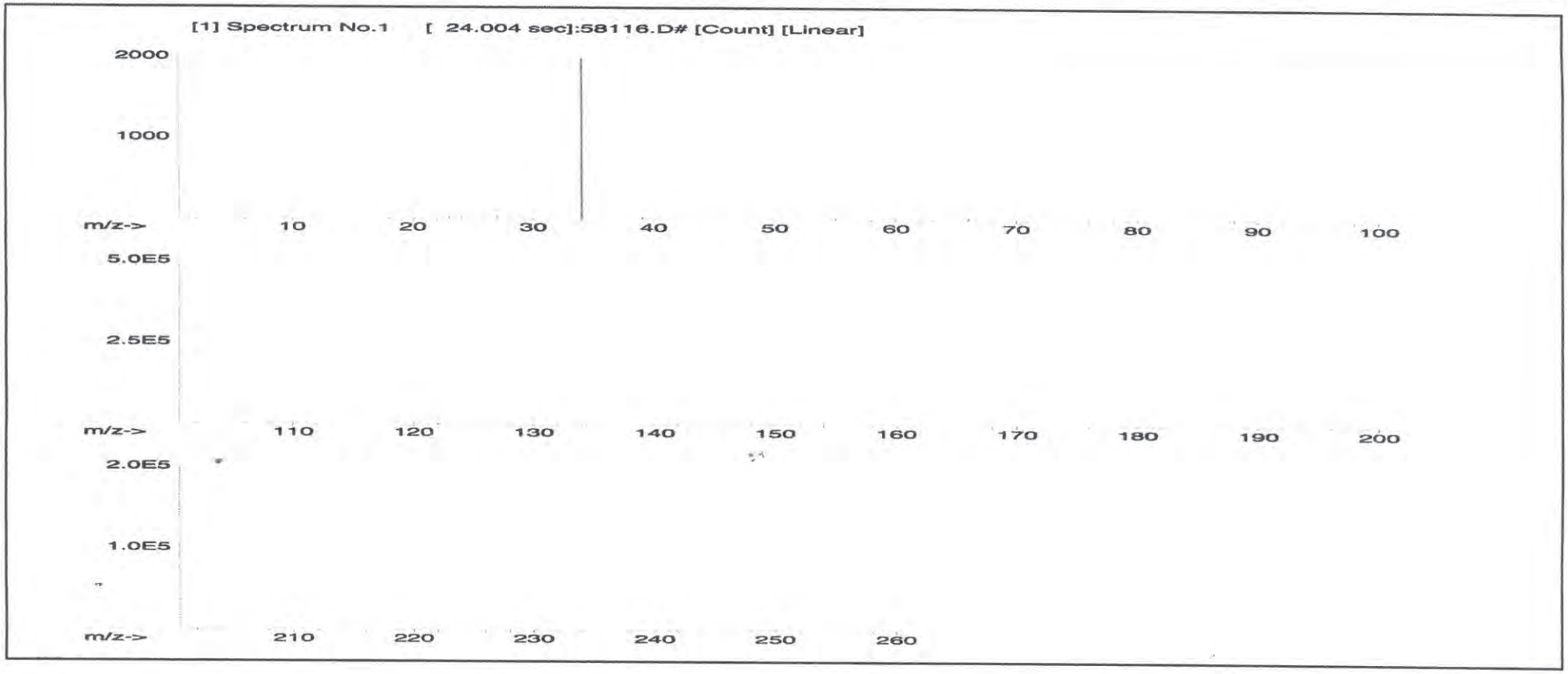
Part Number: 57116
Lot Number: 011421
Description: Sulfur (S)

Expiration Date: 011424
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 23060 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.53 0.100 Flask Uncertainty

Lot #
Solvent: 011421 ASTM Type 1 Water

Formulated By:	Lawrence Barry	011421
Reviewed By:	Pedro L. Rentas	011421

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBF9912V	10000.0	99.0	0.10	24.3	83.2191	83.2206	**10000.2**	**20.2**	7783-20-2	NA	NA	3181



299

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

300

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301

CERTIFIED WEIGHT REPORT:

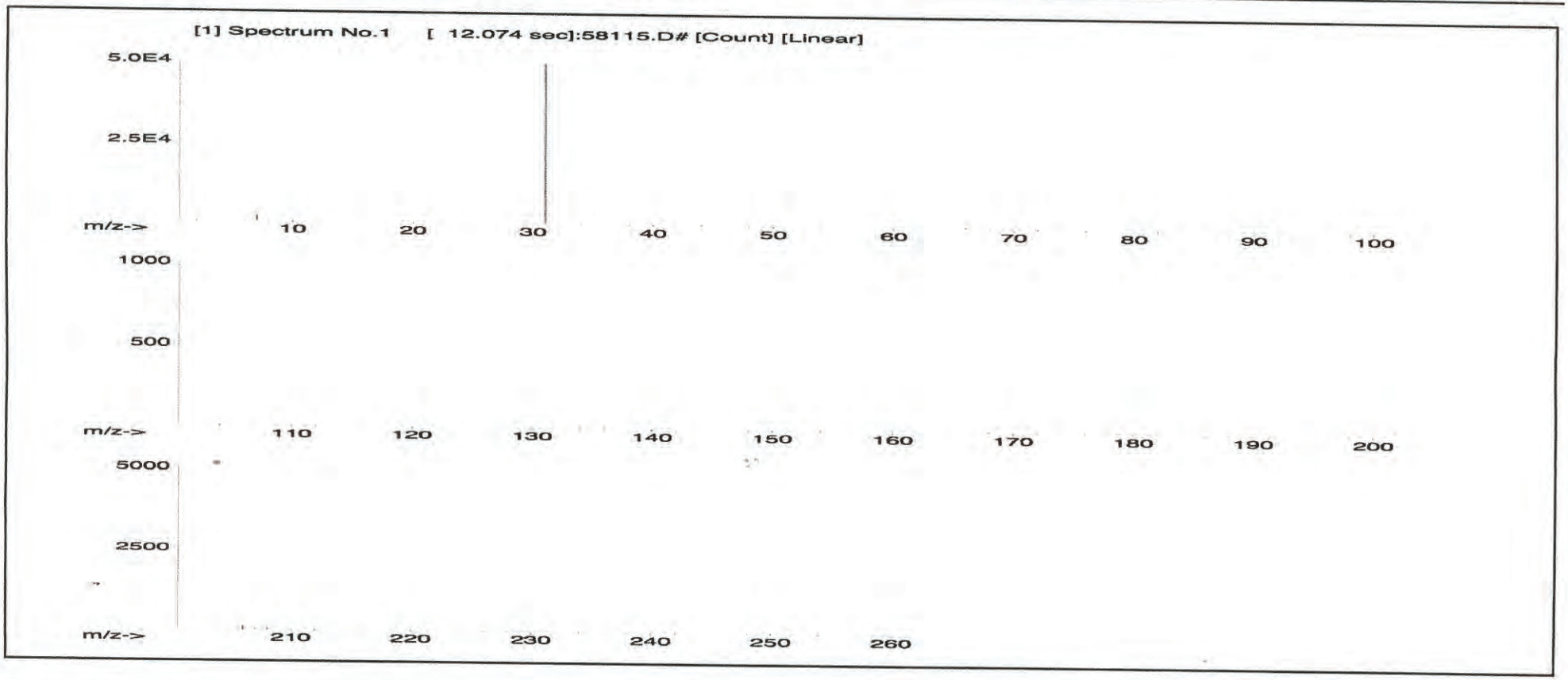
Part Number: 57115
Lot Number: 032921
Description: Phosphorous (P)

Expiration Date: 032924
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	032921
Reviewed By:	Pedro L. Rentas	032921

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV052018A1	10000	99.999	0.10	27.3	109.9063	109.9093	**10000.3**	**20.0**	7722-76-1	5 mg/m3	NA	3186



302

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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CERTIFIED WEIGHT REPORT:

M5184

303

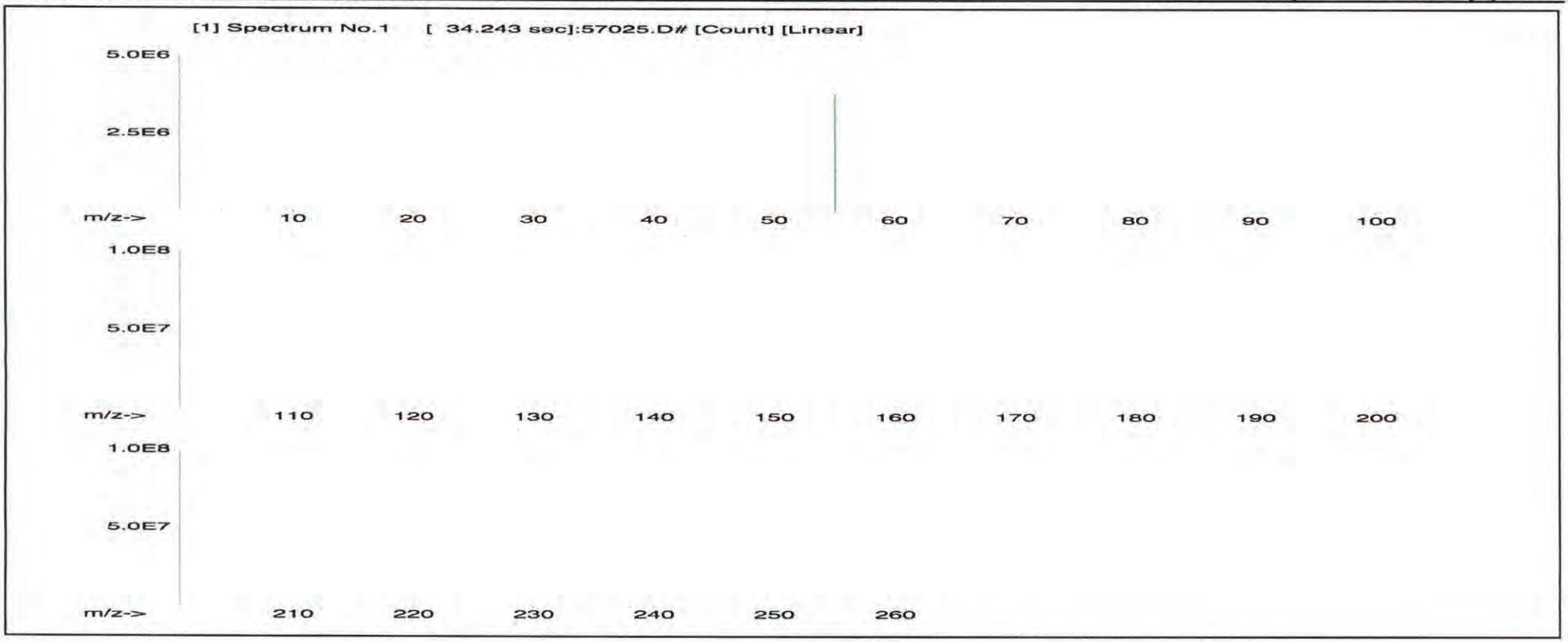
		Lot #	Solvent:
Part Number:	**58025**	20510011	Nitric Acid
Lot Number:	**060122**		
Description:	**Manganese (Mn)**		

2.0%	60.0 (mL)	Nitric Acid	

Formulated By:	Lawrence Barry	060122
Reviewed By:	Pedro L. Rentas	060122

Expiration Date: 060125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	021022	0.1000	300.0	0.084	1000	10000.5	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



304

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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305

CERTIFIED WEIGHT REPORT:

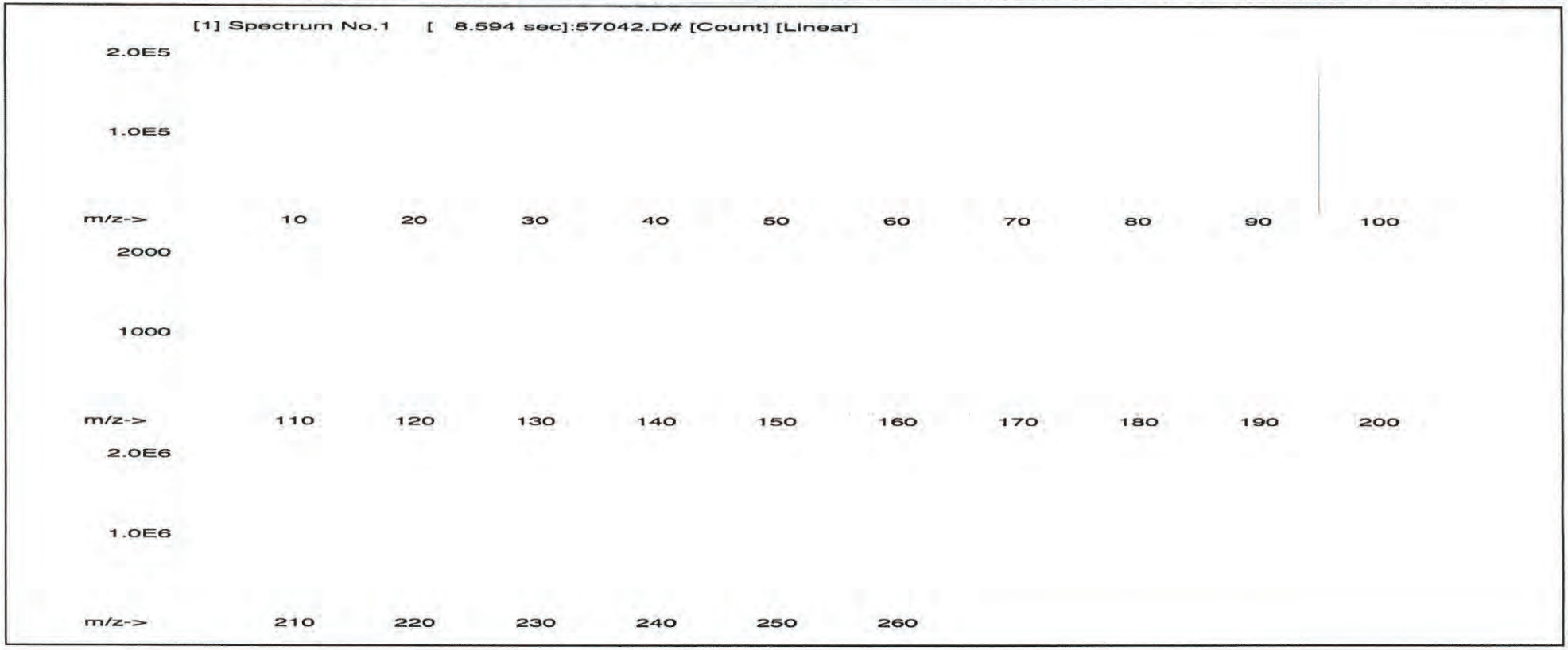
Part Number: **57042**
Lot Number: **051722**
Description: **Molybdenum (Mo)**

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



306

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 09/23/21

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307

CERTIFIED WEIGHT REPORT:

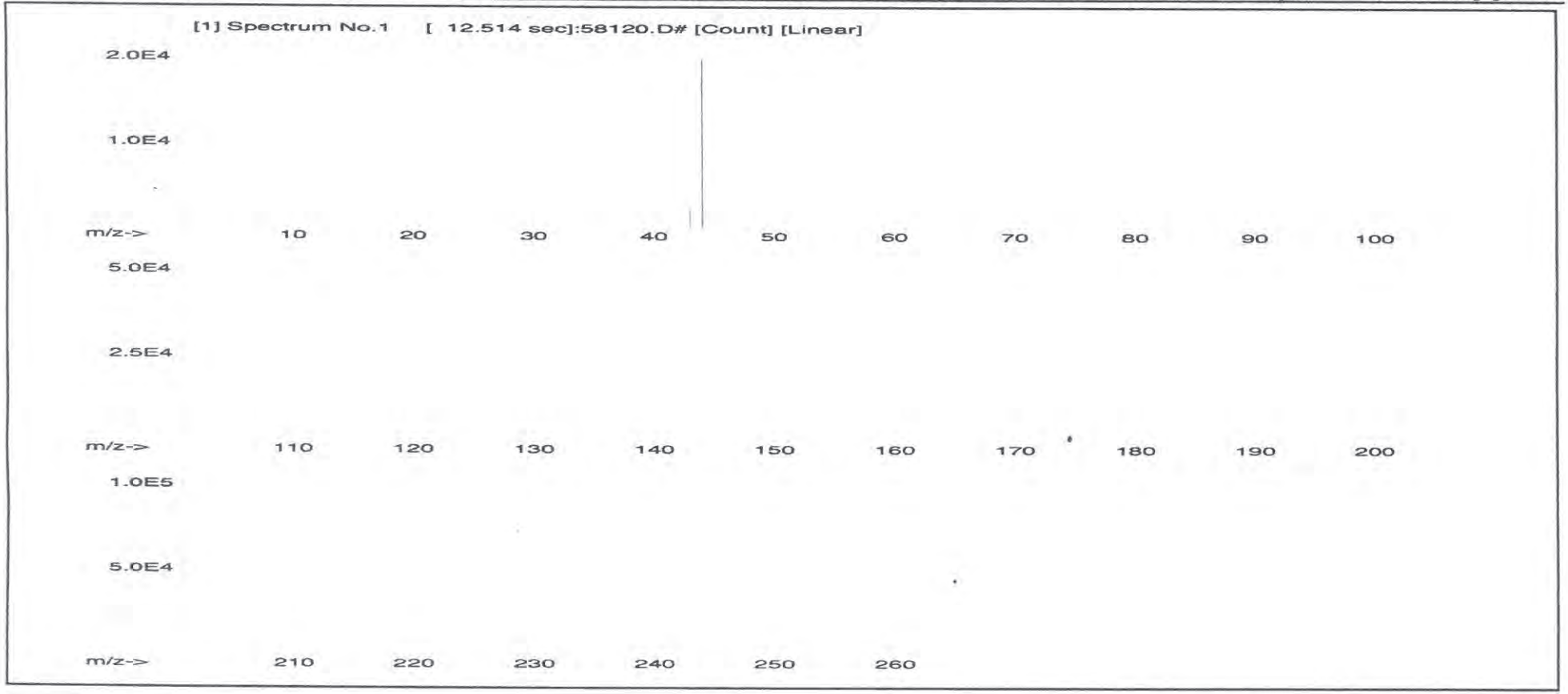
Part Number: 58120
Lot Number: 082021
Description: Calcium (Ca)
Expiration Date: 082024
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.4 0.058 Flask Uncertainty

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	60.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	082021
Reviewed By:	Pedro L. Rentas	082021

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAZ082019A1	10000	99.9995	0.10	39.9	75.1986	75.2065	**10001.0**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

308

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309

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

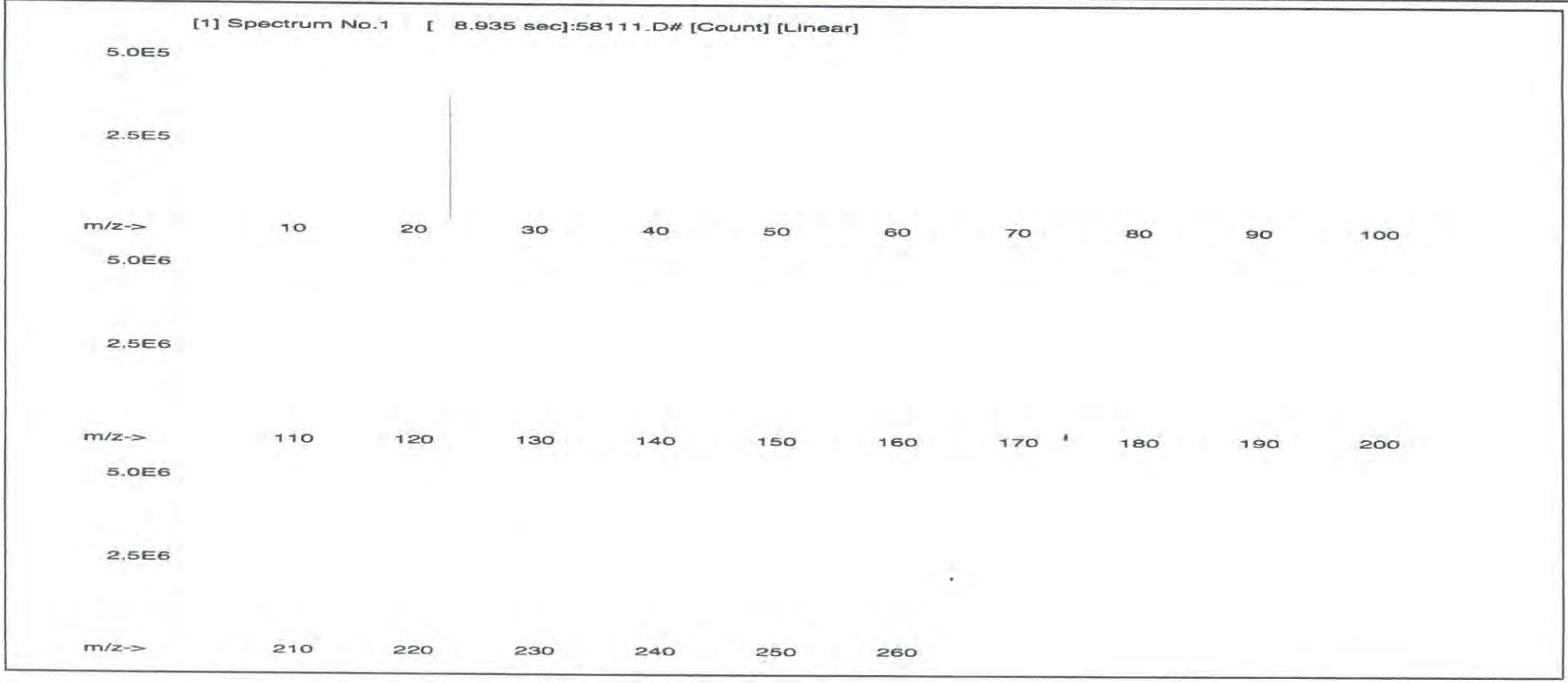
Giovanni Esposito

Formulated By:	Giovanni Esposito	092121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	092121

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



310

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

Part Number: **57119**
Lot Number: **062321**
Description: **Potassium (K)**

Expiration Date: 062324
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:		20370011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

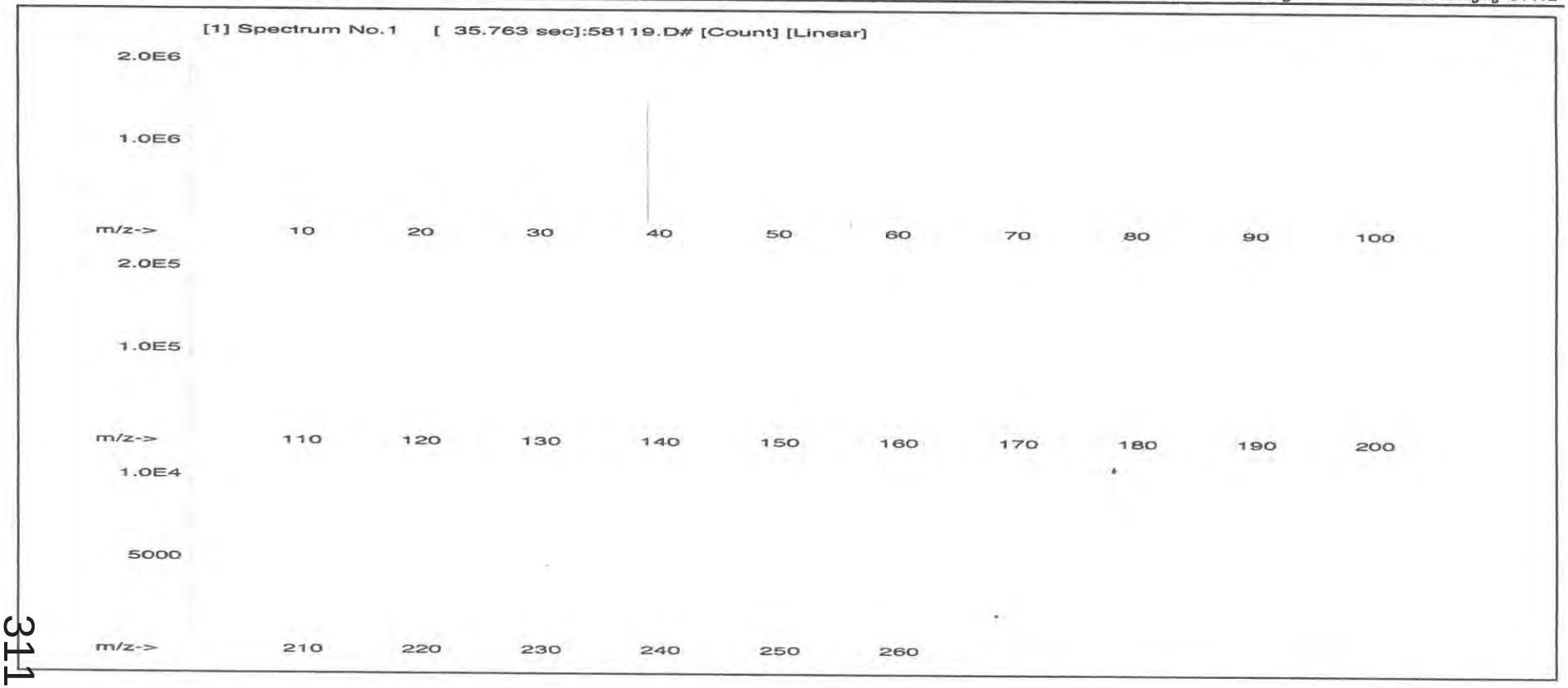
Gabriel Helland

Formulated By:	Gabriel Helland	062321

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062321

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KZ062019A1	10000	99.999	0.10	38.2	52.3570	52.3590	**10000.4**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



311

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

312

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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57051**	20370011	Nitric Acid
Lot Number:	**101521**		
Description:	**Antimony (Sb)**		
		2.0%	40.0 (mL) Nitric Acid
Expiration Date:	101524		
Recommended Storage:	Ambient (20 ºC)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty

Giovanni Esposito

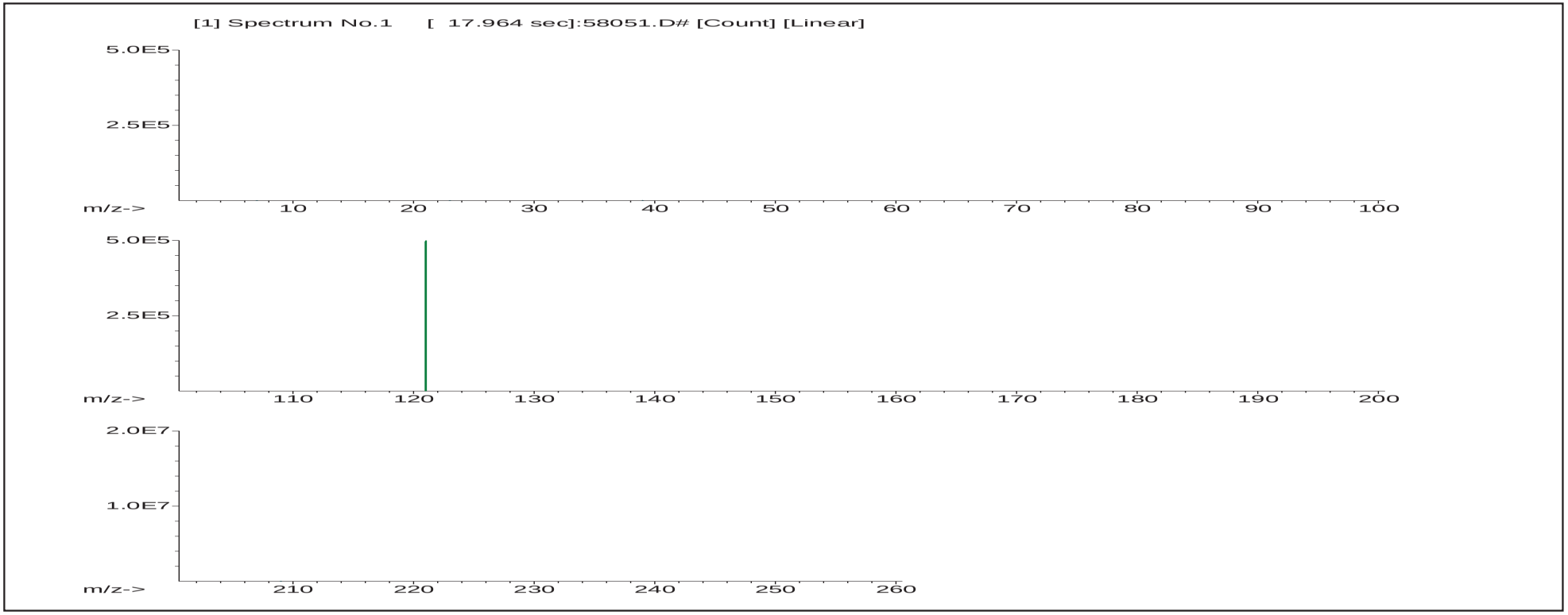
Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

313

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Antimony (Sb)	58151	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



314

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57023**	20370011	Nitric Acid
Lot Number:	**100121**		
Description:	**Vanadium (V)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	100124		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty

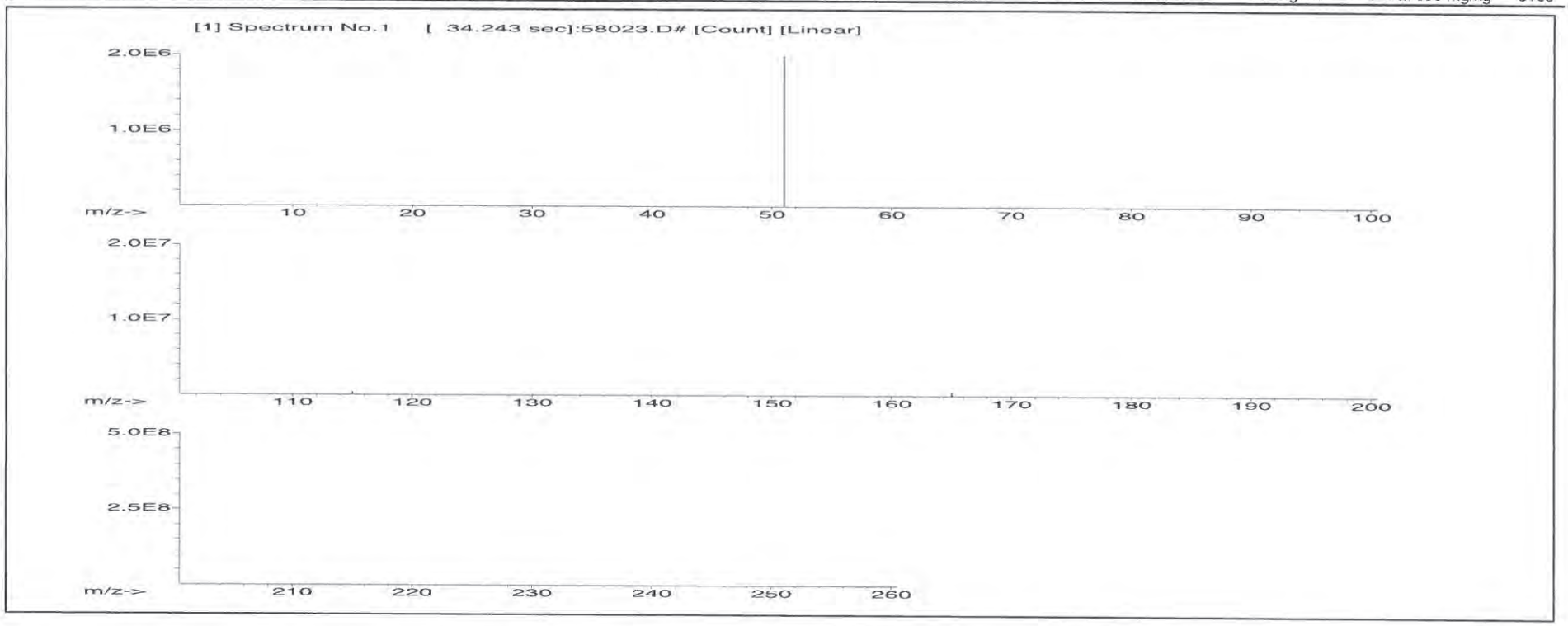
Giovanni Esposito

Formulated By:	Giovanni Esposito	100121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	100121

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium Metavanadate (V)	58123	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



315

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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M5229 R: 07/05/22 (BH)

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317

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57092**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Uranium (U)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

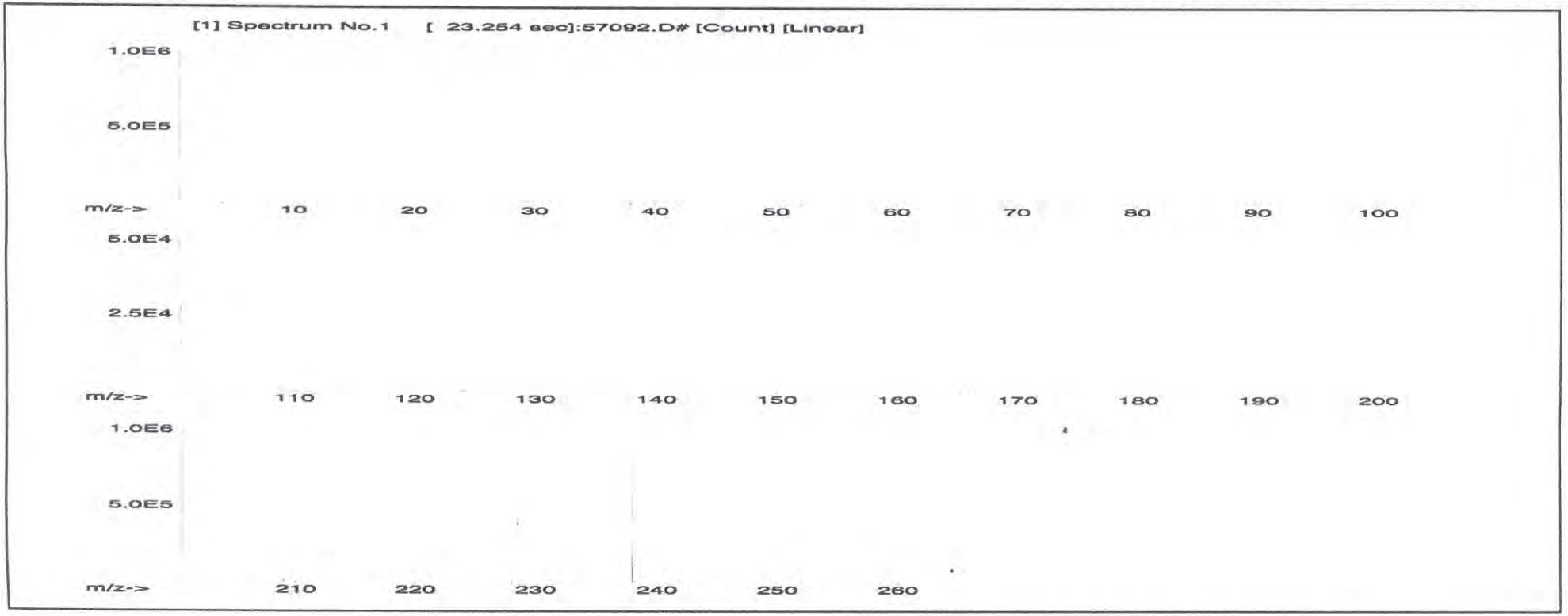
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	**2.1**	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



318

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

M5230 R 07/05/22 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

319

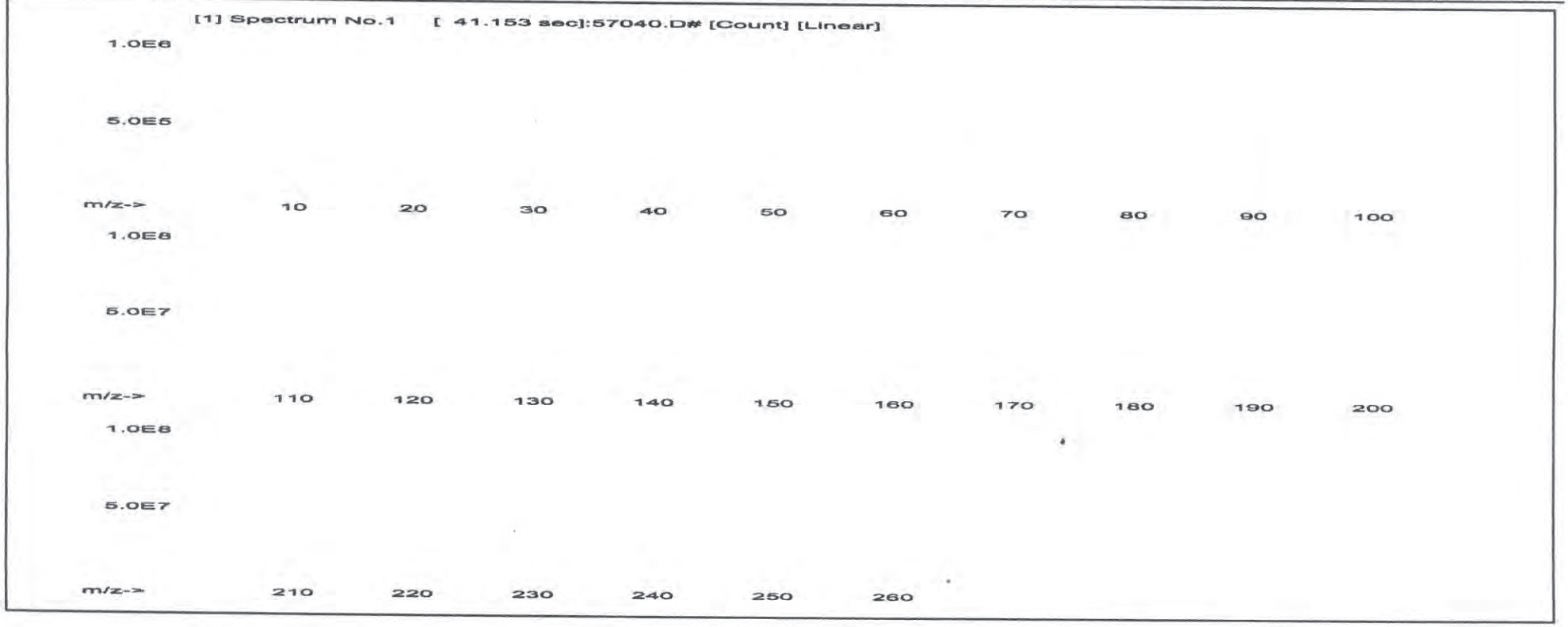
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57040**	20370011	Nitric Acid
Lot Number:	**073021**		
Description:	**Zirconium (Zr)**		
		2.0%	60.0 (mL) Nitric Acid
Expiration Date:	073024		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05	Balance Uncertainty
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	073021
Reviewed By:	Pedro L. Rentas	073021

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	300.0	0.084	1000	10000.3	**1000.0**	**2.1**	13520-92-8	NA	NA	NA



320

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
306 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

R: 7/6/22 M5231

tel: 800.669.6799 / 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	R2-MEB695520
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium,	Beryllium,
Bismuth,	Cerium,
Cobalt,	Indium,
Lithium,	Nickel,
Lead,	Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.00 ± 0.05 µg/mL	Beryllium, Be	10.00 ± 0.05 µg/mL
Bismuth, Bi	10.00 ± 0.05 µg/mL	Cerium, Ce	10.00 ± 0.04 µg/mL
Cobalt, Co	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.00 ± 0.04 µg/mL
Nickel, Ni	10.00 ± 0.04 µg/mL	Uranium, U	10.00 ± 0.05 µg/mL

Density: 1.023 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	991212
Bi	Calculated		See Sec. 4.2
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- August 04, 2024

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Wednesday, Oct 14, 2020 by utruong. Revision was made for the following reason: Added missing isotopic abundance for Uranium..

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Paul R Gaines

Absolute Standards, Inc.
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www.absolutestandards.com

M5289 R: 07/12/22 (B4)

Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

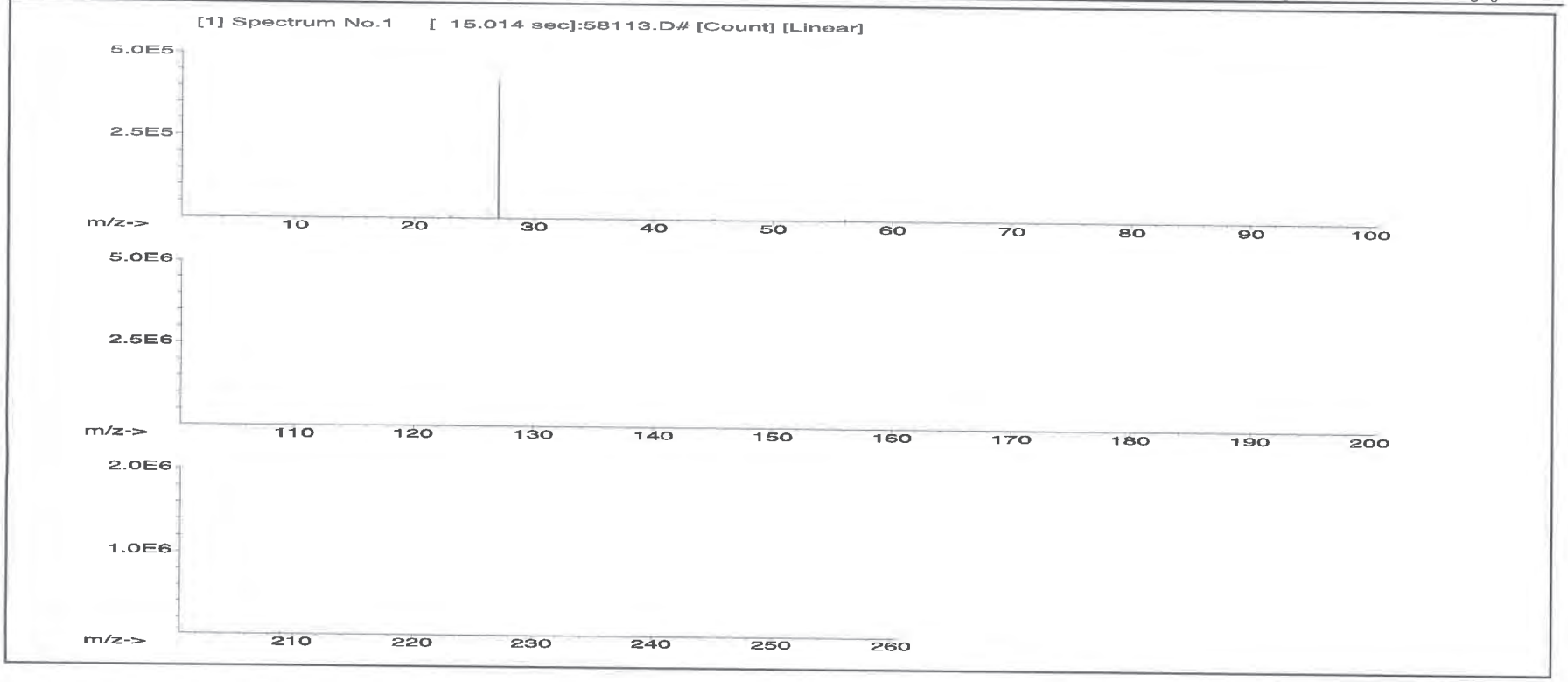
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #	
Solvent:	20370011	Nitric Acid
2%	40.0 (mL)	Nitric Acid

Formulated By: Lawrence Barry 070622

Reviewed By: Pedro L. Rentas 070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: **58126**
Lot Number: **020422** M5298
Description: **Iron (Fe)**

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): **10000**
NIST Test Number: 6UTB

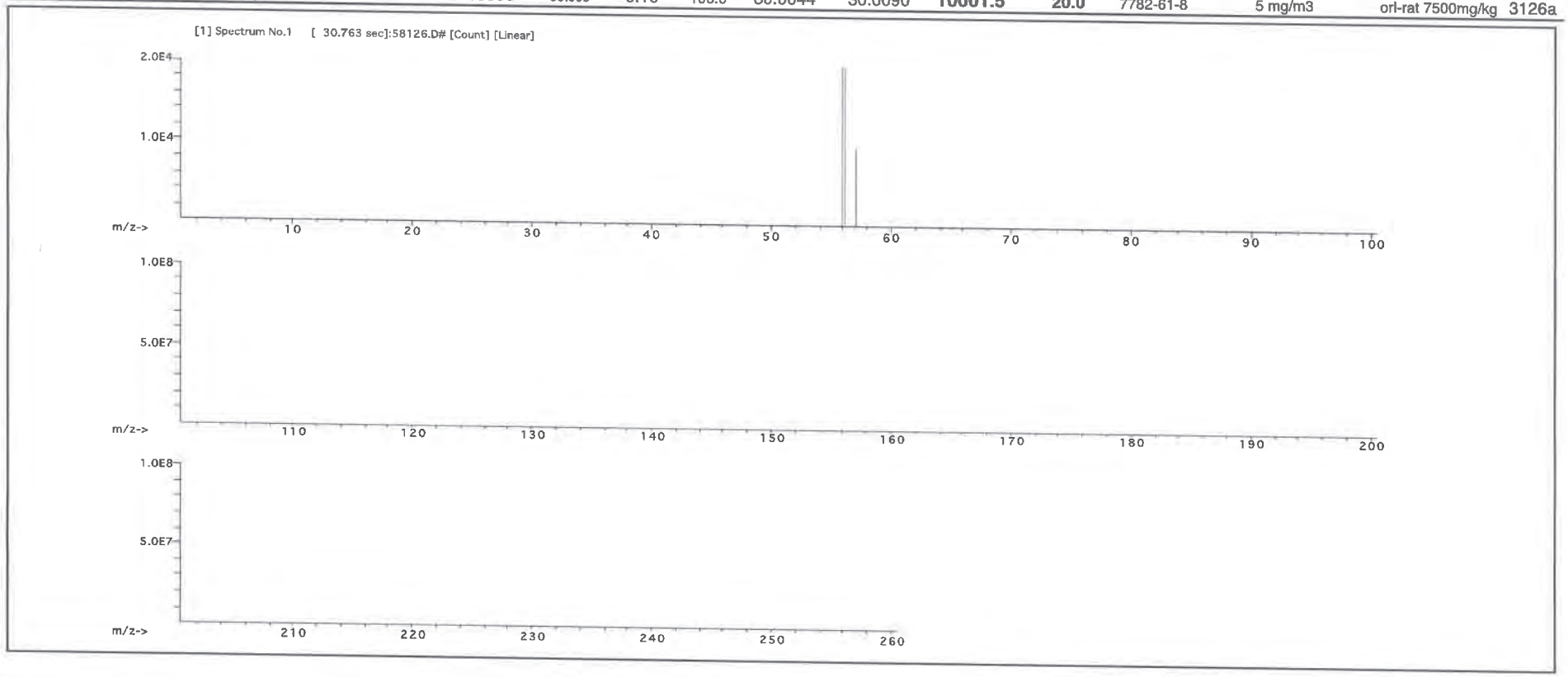
	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty 5E-05 Balance Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



329

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Refine your results. Redefine your industry.

Certificate of Analysis

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inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

335

CERTIFIED WEIGHT REPORT:

Part Number: 57056
Lot Number: 072122
Description: Barium (Ba)

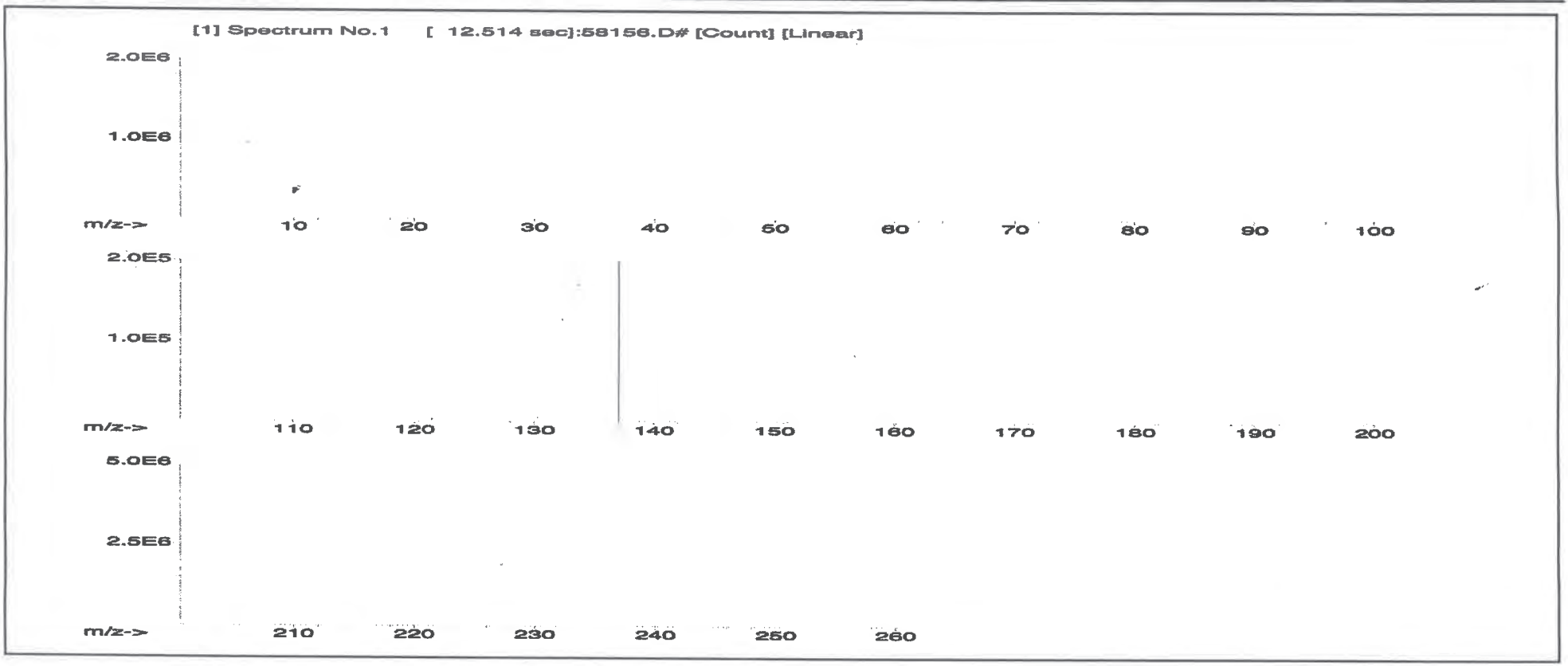
Expiration Date: 072125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	40.0 (mL)	Nitric Acid

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

	Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	2.0	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea: Bismuth, Indium, Rhodium, Terbium, Holmium, 6-Lithium, Scandium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5449 M5450 M5451
M5452 M5453 M5454

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/14/23 M5468

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

344

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 120922
Description: Magnesium (Mg)

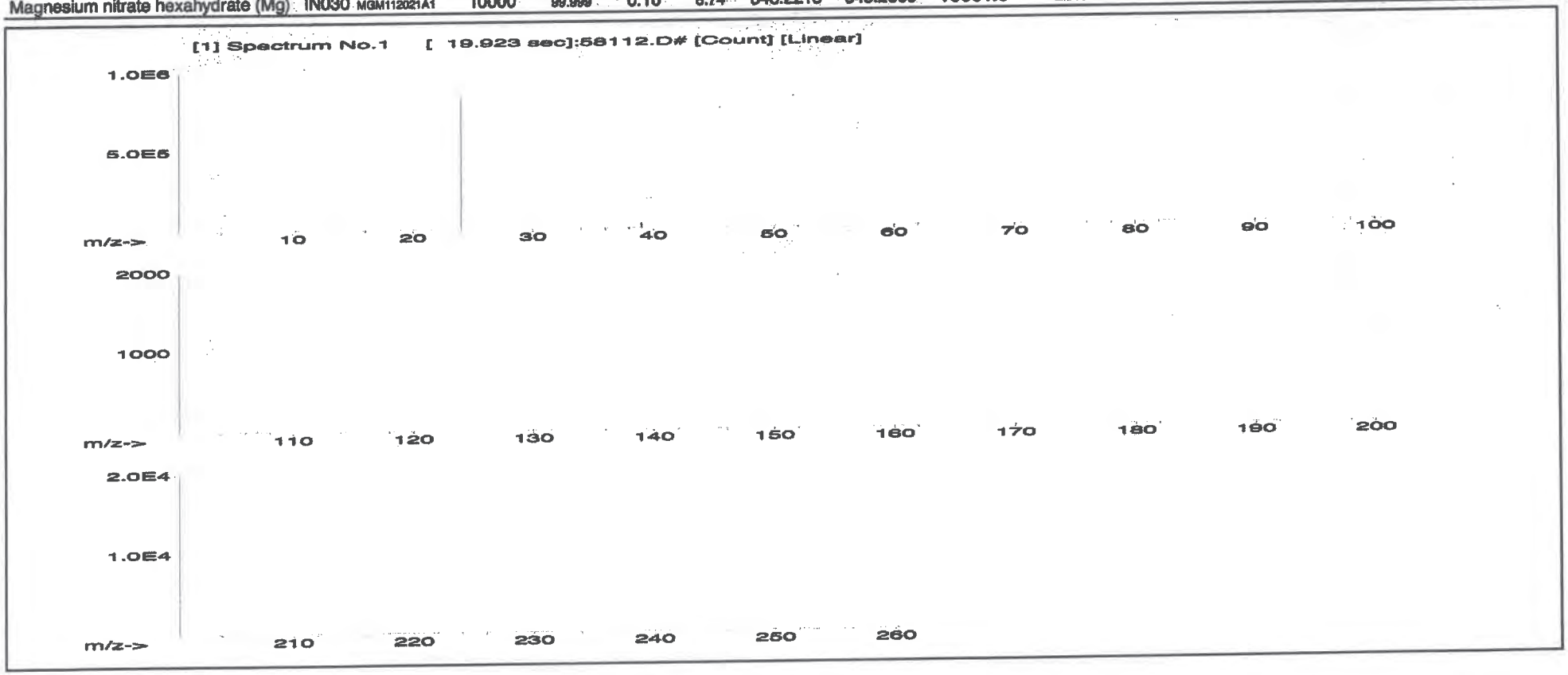
Expiration Date: 120925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

Giovanni Esposito

Formulated By:	Giovanni Esposito	120922
Reviewed By:	Pedro L. Rentas	120922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	10001.3	20.0	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

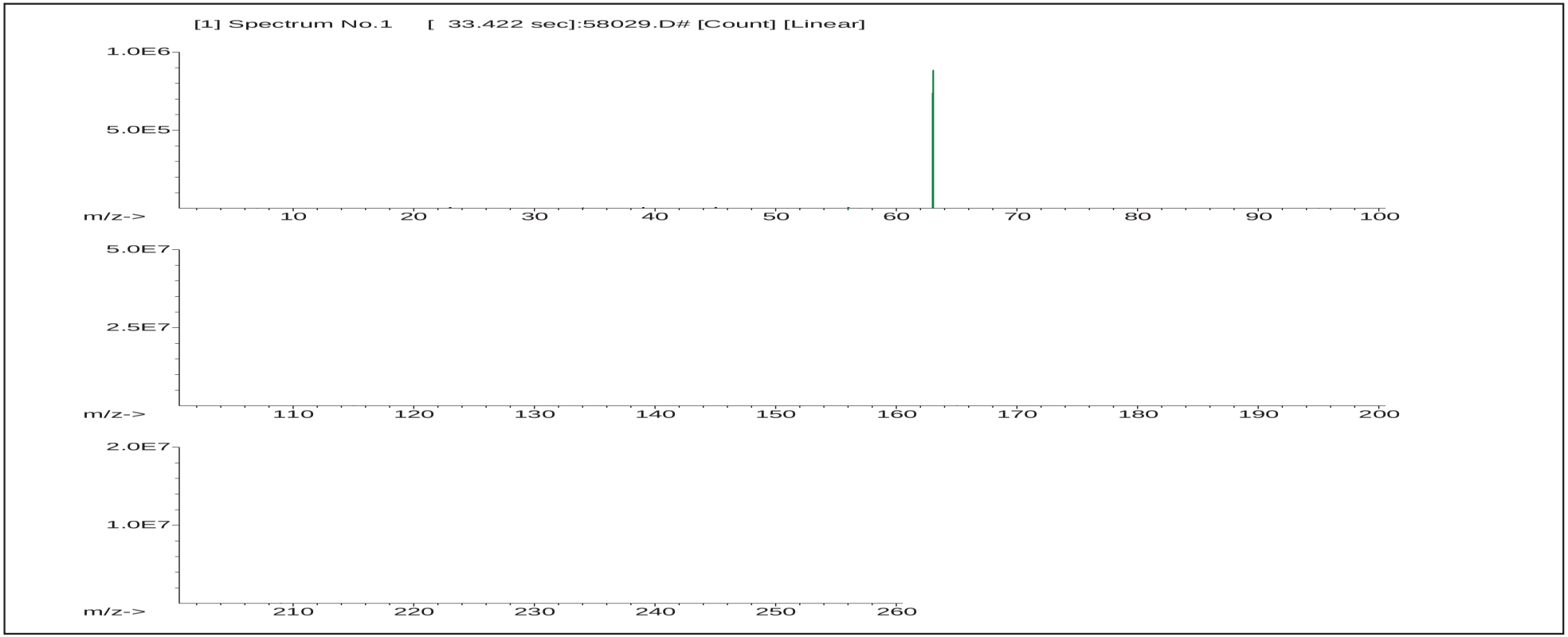
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	20510011	Nitric Acid	
Lot Number:	**102622**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102625			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Eli Aliaga	102622
Reviewed By:	Pedro L. Rentas	102622

346

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	021422	0.1000	200.0	0.084	1000	10000.8	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



347

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium,
	1 000 µg/mL ea: Iron,
	500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,
	250 µg/mL ea: Copper,
	200 µg/mL ea: Chromium,
	50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method I with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) $= U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) $= U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5587 M5588 M5589
M5590 M5591 M5592

Material No.: 9530-33
Batch No.: 22D1462006
Manufactured Date: 2022-02-24
Retest Date: 2027-02-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.5 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	1.4 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	48.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	2 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.7 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 0.9 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.3 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.5 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22D1462006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

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Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

RE 03/16/23, M5469, M5470, M5471, M5472

367

CERTIFIED WEIGHT REPORT:

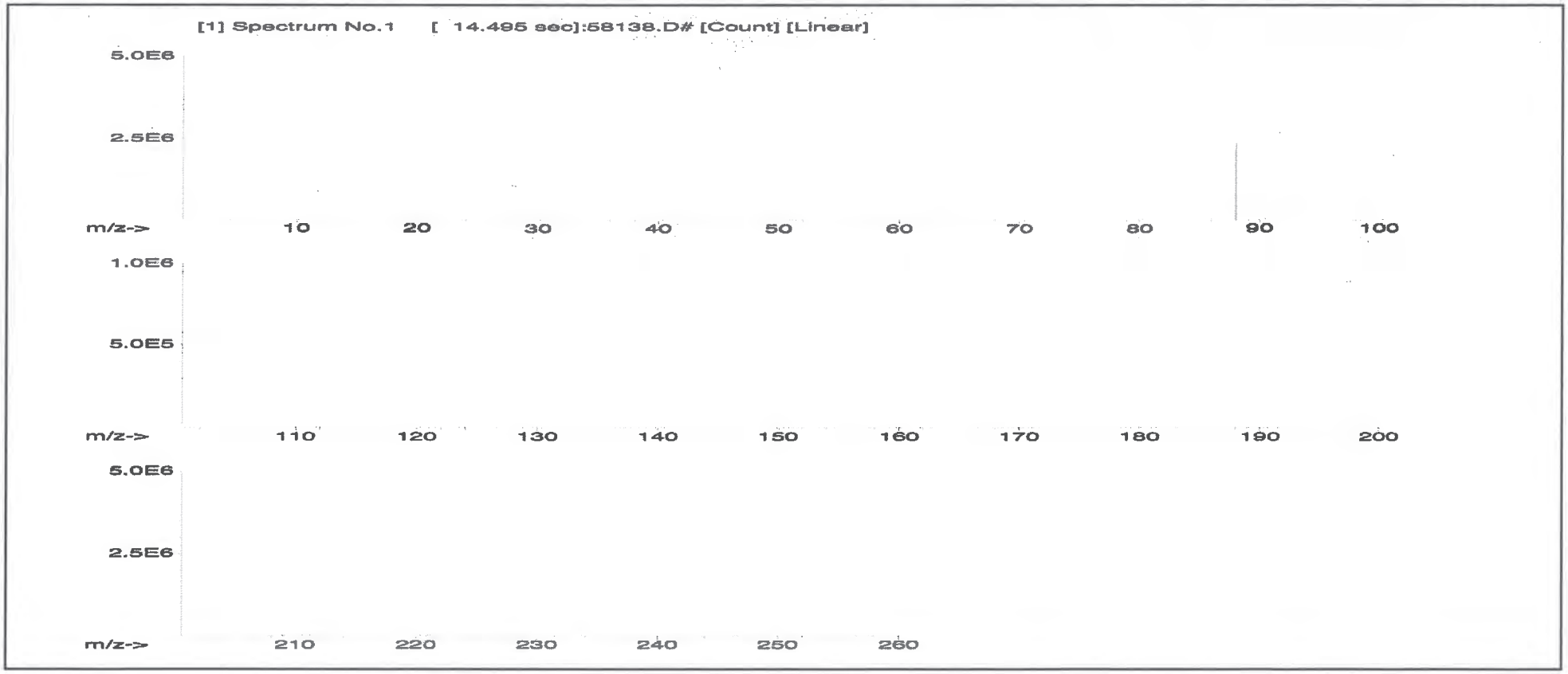
Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:		20510011	Nitric Acid
	2%	20.0 (mL)	Nitric Acid

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



368

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 03/16/23 M5473 M5474, M5475, M5476

369

CERTIFIED WEIGHT REPORT:

Part Number: 56138
Lot Number: 082922
Description: Strontium (Sr)

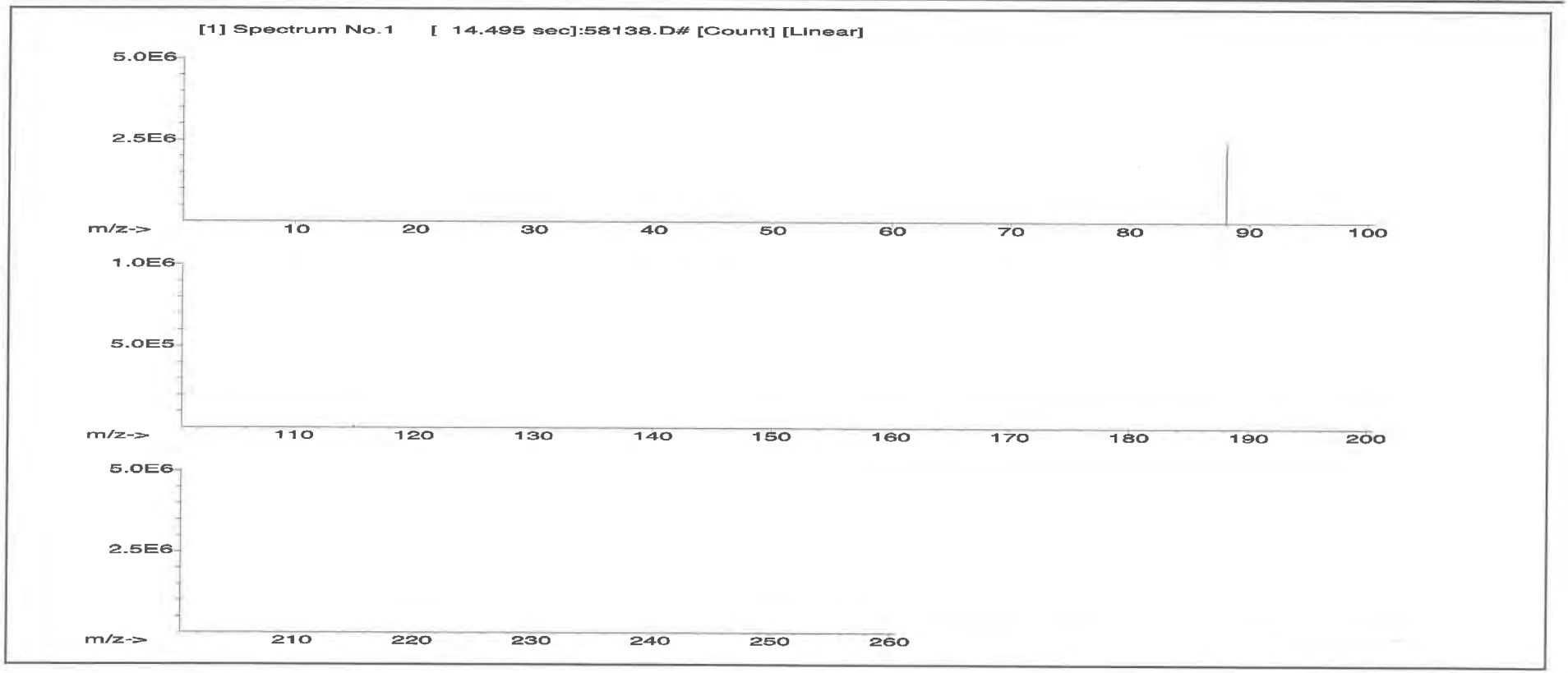
Expiration Date: 082925
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #	
Solvent:	20510011	Nitric Acid
2%	20.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 082922
Reviewed By: Pedro L. Rentas 082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																			
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CHEMTECH

Water Metals Preparation Sheet

PB154039

SOP ID : M200.8-Trace Elements-21, MSFAM01.1-Metals ICPMS-2

SDG No : MH0F96

Start Digest Date: 07/07/2023 **Time :** 13:00 **Temp :** 96 °C

Matrix : WATER

End Digest Date: 07/07/2023 **Time :** 15:00 **Temp :** 96 °C

Pippete ID: ICP A

Digestion tube ID: M5586

Balance ID : N/A

Block thermometer ID: HG-DIG. #3

Filter paper ID : N/A

Dig Technician Signature: AJ

pH Strip ID : M4909

Supervisor Signature: BH

Hood ID : #1

Block ID: **1.** HOT BLOCK#3 **2.** N/A

Temp : **1.** 96°C **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50	MP76246
Spike Sol. B	0.50	MP76131
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	1.00	MP75962
1:1 HCL	5.00	MP74325
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/7/23 15:10	AJ/D 19 Lab	BH / Metals Lab
	Preparation Group	**Analysis Group**

CHEMTECH

Water Metals Preparation Sheet

PB154039

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
O3524-01	MH0F96	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	3-1
O3524-02	MH0F97	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	2
O3524-03	MH0F97D	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	3
O3524-04	MH0F97S	<2	50	50	Colorless	Colorless	Clear	Clear	MP76131	4
O3524-05	MH0F98	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	5
O3524-06	MH0F99	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	6
O3524-07	MH0FA0	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	7
PB154039BL	PBW039	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	8
PB154039BS	LCS039	<2	50	50	Colorless	Colorless	Clear	Clear	MP76246	9

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE076	TUNE	07/14/23 13:05		Jaswal	OK
2	S00	S0	CAL1	07/14/23 13:46		Jaswal	OK
3	S02	S02	CAL3	07/14/23 13:49		Jaswal	OK
4	S03	S03	CAL4	07/14/23 13:52		Jaswal	OK
5	S04	S04	CAL5	07/14/23 13:55		Jaswal	OK
6	S05	S05	CAL6	07/14/23 13:58		Jaswal	OK
7	S06	S06	CAL7	07/14/23 14:01		Jaswal	OK
8	S07	S07	CAL8	07/14/23 14:04		Jaswal	OK
9	S08	S08	CAL9	07/14/23 14:07		Jaswal	OK
10	ICV076	ICV076	ICV	07/14/23 14:20		Jaswal	OK
11	ICB076	ICB076	ICB	07/14/23 14:23		Jaswal	OK
12	ICSA076	ICSA076	ICSA	07/14/23 14:46		Jaswal	OK
13	ICSAB076	ICSAB076	ICSAB	07/14/23 14:50		Jaswal	OK
14	CCV029	CCV029	CCV	07/14/23 14:53		Jaswal	OK
15	CCB029	CCB029	CCB	07/14/23 14:56		Jaswal	OK
16	PB154039BL	PBW039	MB	07/14/23 14:59		Jaswal	OK
17	PB154039BS	LCS039	LCS	07/14/23 15:02		Jaswal	OK
18	O3524-01	MH0F96	SAM	07/14/23 15:05		Jaswal	OK
19	O3524-02	MH0F97	SAM	07/14/23 15:08		Jaswal	OK
20	O3524-03	MH0F97D	DUP	07/14/23 15:11		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

21	O3524-02L	MH0F97L	SD	07/14/23 15:14		Jaswal	OK
22	O3524-04	MH0F97S	MS	07/14/23 15:17		Jaswal	OK
23	O3524-05	MH0F98	SAM	07/14/23 15:20		Jaswal	OK
24	O3524-06	MH0F99	SAM	07/14/23 15:23		Jaswal	OK
25	O3524-07	MH0FA0	SAM	07/14/23 15:26		Jaswal	OK
26	CCV030	CCV030	CCV	07/14/23 15:48		Jaswal	OK
27	CCB030	CCB030	CCB	07/14/23 15:52		Jaswal	OK
28	PB153894BL	PBS894	MB	07/14/23 15:55		Jaswal	OK
29	PB153894BS	LCS894	LCS	07/14/23 15:58		Jaswal	OK
30	O3460-01	A46A2	SAM	07/14/23 16:01		Jaswal	OK
31	O3460-03	A46L3	SAM	07/14/23 16:04		Jaswal	OK
32	O3460-04	A46L8	SAM	07/14/23 16:07		Jaswal	OK
33	O3460-05	A46L9	SAM	07/14/23 16:10		Jaswal	OK
34	O3460-06	A46M0	SAM	07/14/23 16:13		Jaswal	OK
35	O3460-07	A46M1	SAM	07/14/23 16:16		Jaswal	OK
36	O3460-08	A46M2	SAM	07/14/23 16:19		Jaswal	OK
37	O3460-09	A46M3	SAM	07/14/23 16:22		Jaswal	OK
38	O3460-10	A46M5	SAM	07/14/23 16:25		Jaswal	OK
39	O3460-11	A46M6	SAM	07/14/23 16:28		Jaswal	OK
40	O3460-12	A46M7	SAM	07/14/23 16:31		Jaswal	OK
41	O3460-13	A46N0	SAM	07/14/23 16:34		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

42	O3460-14	A46M4	SAM	07/14/23 16:37		Jaswal	OK
43	O3460-15	A46M8	SAM	07/14/23 16:40		Jaswal	OK
44	O3460-16	A46M9	SAM	07/14/23 16:43		Jaswal	OK
45	O3460-17	A46N1	SAM	07/14/23 16:46		Jaswal	OK
46	O3460-18	A46N2	SAM	07/14/23 16:49		Jaswal	OK
47	O3460-19	A46K5	SAM	07/14/23 16:52		Jaswal	OK
48	O3460-20	A46K5D	DUP	07/14/23 16:55		Jaswal	OK
49	O3460-19L	A46K5L	SD	07/14/23 16:58		Jaswal	OK
50	O3460-21	A46K5S	MS	07/14/23 17:01		Jaswal	OK
51	O3460-22	A46L4	SAM	07/14/23 17:04		Jaswal	OK
52	O3460-23	A46L5	SAM	07/14/23 17:07		Jaswal	OK
53	O3460-24	A46L6	SAM	07/14/23 17:10		Jaswal	OK
54	CCV031	CCV031	CCV	07/14/23 17:27		Jaswal	OK
55	CCB031	CCB031	CCB	07/14/23 17:30		Jaswal	OK
56	PB153925BL	PBW925	MB	07/14/23 17:51		Jaswal	OK
57	PB153925BS	LCS925	LCS	07/14/23 17:54		Jaswal	OK
58	O3292-03	MH0F91	SAM	07/14/23 17:57		Jaswal	OK
59	O3292-04	MH0F92	SAM	07/14/23 18:00		Jaswal	OK
60	O3292-05	MH0F93	SAM	07/14/23 18:03		Jaswal	OK
61	O3292-06	MH0F93D	DUP	07/14/23 18:06		Jaswal	OK
62	O3292-05L	MH0F93L	SD	07/14/23 18:09		Jaswal	OK

CHEMTECH

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB126466

Review By	Sarabjit Jaswal	Review On	7/17/2023 6:34:15 AM
Supervise By	Bin He	Supervise On	7/17/2023 6:34:55 AM

STD. NAME	STD REF.#
ICAL Standard	MP76115,MP76244,MP76243,MP76241,MP76240,MP76239,MP76238,MP76237,MP76116
ICV Standard	MP76125
CCV Standard	MP76245
ICSA Standard	MP76127,MP76128
CRI Standard	
LCS Standard	MP76247
Chk Standard	MP76136,MP76135

63	O3292-07	MH0F93S	MS	07/14/23 18:12		Jaswal	OK
64	O3292-09	MH0F95	SAM	07/14/23 18:21		Jaswal	OK
65	O3292-08	MH0F94	SAM	07/14/23 19:01		Jaswal	OK
66	O3292-10	MH0F89	SAM	07/14/23 19:08		Jaswal	OK
67	O3292-11	MH0F90	SAM	07/14/23 19:11		Jaswal	OK
68	CCV032	CCV032	CCV	07/14/23 19:18		Jaswal	OK
69	CCB032	CCB032	CCB	07/14/23 19:23		Jaswal	OK

EPA SAMPLE NO.

MH0F96

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-01

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	07/10/2023	1525

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F97

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-02

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	07/10/2023	1527

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F98

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-05

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	07/10/2023	1534

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0F99

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-06

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	07/10/2023	1536

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MH0FA0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Chemtech Consulting Group Contract: 68HERH20D0011

Lab Code: CHM Case No.: 50856 MA No. : SDG No.: MH0F96

Matrix: Water Lab Sample ID: O3524-07

% Solids: Date Received: 06/27/2023

Analytical Method: Hg

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	07/10/2023	1538

NOTE: Hardness (total) is reported in mg/L

Comments:

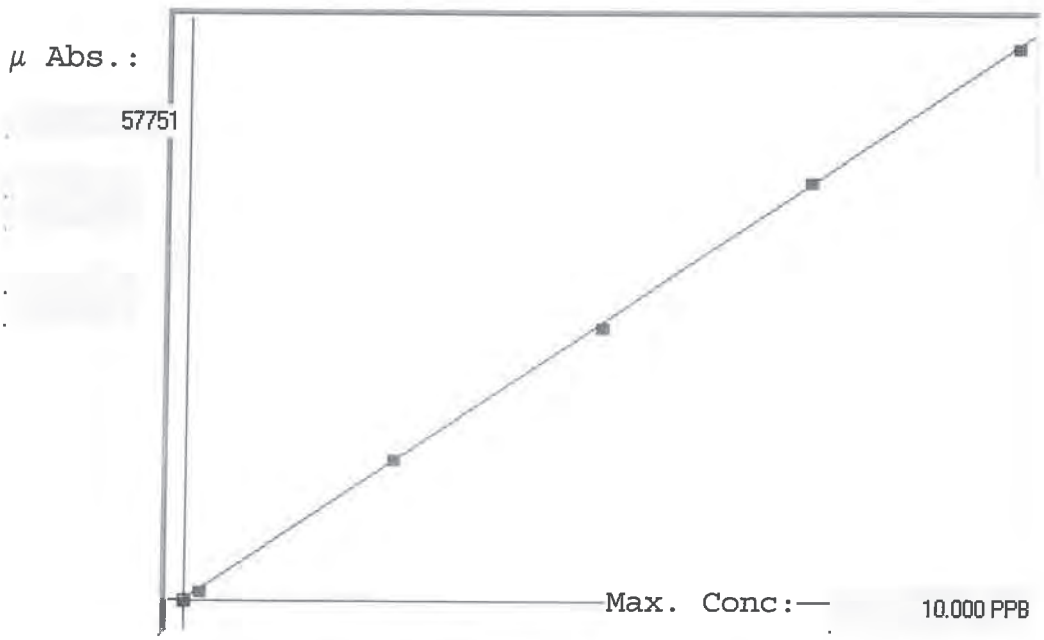
Reviewed By:bin
On:7/12/2023 12:29:12 AM
Inst Id :CV1

LB 126372

SFAM01.1

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.7289e-004 slope

C= -1.8142e-002 y-intercept

Rho= 0.9999213

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	% D
0.00	0.000	0.010	0.010	164	0.000	164					=
0.05	0.050					302	0				-15
0.20	0.200	0.171	-0.029	1092	0.0 %	1092					2
2.50	2.500	2.544	0.044	14822	0.0 %	14822					-1
5.00	5.000	4.938	-0.062	28665	0.0 %	28665					1
7.50	7.500	7.570	0.070	43891	0.0 %	43891					0
10.0	10.000	9.967	-0.033	57751	0.0 %	57751					

Reviewed By:bin
On:7/12/2023 12:29:12 AM
Inst Id :CV1

LB123372

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
0	S0	164	-	0	SFAM01.1	PPB	7/10/2023 14:34	Std
0.2	S01	1092	-	0.2	SFAM01.1	PPB	7/10/2023 14:36	Std
2.5	S02	14822	-	2.5	SFAM01.1	PPB	7/10/2023 14:39	Std
5	S03	28665	-	5	SFAM01.1	PPB	7/10/2023 14:41	Std
7.5	S04	43891	-	7.5	SFAM01.1	PPB	7/10/2023 14:48	Std
10	S05	57751	-	10	SFAM01.1	PPB	7/10/2023 14:50	Std
ICV062	ICV062	21182	3.6441	-	SFAM01.1	PPB	7/10/2023 14:53	SMPL
ICB062	ICB062	-359	-0.0802	-	SFAM01.1	PPB	7/10/2023 14:55	SMPL
CCV008	CCV008	28865	4.9724	-	SFAM01.1	PPB	7/10/2023 15:00	SMPL
CCB008	CCB008	-82	-0.0323	-	SFAM01.1	PPB	7/10/2023 15:02	SMPL
PB154107BL	PBW107	29	-0.0131	-	SFAM01.1	PPB	7/10/2023 15:04	SMPL
O3427-01	A46J0	40	-0.0112	-	SFAM01.1	PPB	7/10/2023 15:06	SMPL
O3427-02	A46T2	32	-0.0126	-	SFAM01.1	PPB	7/10/2023 15:09	SMPL
O3427-03	A46T3	48	-0.0098	-	SFAM01.1	PPB	7/10/2023 15:11	SMPL
O3427-04	A46X9	29	-0.0131	-	SFAM01.1	PPB	7/10/2023 15:13	SMPL
O3427-05	A46R9	63	-0.0072	-	SFAM01.1	PPB	7/10/2023 15:16	SMPL
O3427-06	A46R9D	63	-0.0072	-	SFAM01.1	PPB	7/10/2023 15:18	SMPL
O3427-07	A46R9S	5439	0.9222	-	SFAM01.1	PPB	7/10/2023 15:20	SMPL
PB154108BL	PBW108	103	-0.0003	-	SFAM01.1	PPB	7/10/2023 15:22	SMPL
O3524-01	MH0F96	172	0.0116	-	SFAM01.1	PPB	7/10/2023 15:25	SMPL
O3524-02	MH0F97	195	0.0156	-	SFAM01.1	PPB	7/10/2023 15:27	SMPL
O3524-03	MH0F97D	261	0.027	-	SFAM01.1	PPB	7/10/2023 15:29	SMPL
O3524-04	MH0F97S	5862	0.9954	-	SFAM01.1	PPB	7/10/2023 15:31	SMPL
O3524-05	MH0F98	477	0.0643	-	SFAM01.1	PPB	7/10/2023 15:34	SMPL
O3524-06	MH0F99	299	0.0336	-	SFAM01.1	PPB	7/10/2023 15:36	SMPL
O3524-07	MH0FA0	165	0.0104	-	SFAM01.1	PPB	7/10/2023 15:38	SMPL
CCV009	CCV009	28742	4.9511	-	SFAM01.1	PPB	7/10/2023 15:40	SMPL
CCB009	CCB009	-39	-0.0249	-	SFAM01.1	PPB	7/10/2023 15:43	SMPL

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O329M

Test : e r cuycP

Prepbatch ID : B152M5, L6

Sequence ID/Qc Batch ID: 015973896

Standard ID :
e B824476e B824486e B8244L6e B824446e B879576e B879586e B879546e B879956e B879936e B879926e B879976e B879
986e B8799L6e B879946e B879356e B879326

Chemical ID :
e M3856e M3486e MM246e M4576e M49, 6e 2, 796e 25876e 229L6e 22486e 27, 36W97, 76

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP75996	06/24/2023	12/21/2023	Mohan Bera	None	None	Sarabjit Jaswal 06/25/2023

FROM 1900.00000ml of M5176 + 800.00000ml of M5597 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP75997	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000gram of M4916 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP75998	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 100.00000ml of M4397 + 2000.00000ml of W2606 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP75999	06/24/2023	12/24/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 06/25/2023

FROM 2000.00000ml of W2606 + 240.00000gram of M4371 + 240.00000gram of M4459 = Final Quantity: 2000.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP76216	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 1.00000ml of M5597 + 2.50000ml of M5062 + 96.50000ml of W2606 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP76217	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5597 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP76219	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5597 + 247.30000ml of W2606 + 0.20000ml of MP76216 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP76221	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5597 + 245.00000ml of W2606 + 2.50000ml of MP76216 = Final Quantity: 250.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP76223	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5597 + 242.50000ml of W2606 + 5.00000ml of MP76216 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP76225	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5597 + 240.00000ml of W2606 + 7.50000ml of MP76216 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP76226	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5597 + 237.50000ml of W2606 + 10.00000ml of MP76216 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP76227	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5528 + 2.50000ml of M5597 + 245.00000ml of W2606 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP76228	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 2.50000ml of M5597 + 247.50000ml of W2606 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP76229	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 485.00000ml of W2606 + 5.00000ml of M5597 + 10.00000ml of MP76216 = Final Quantity: 500.000 ml

CHEMTECH

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP76231	07/10/2023	07/11/2023	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 07/10/2023

FROM 495.00000ml of W2606 + 5.00000ml of M5597 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP76235	07/10/2023	07/11/2023	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 07/10/2023

FROM 450.00000ml of W2606 + 50.00000gram of M4920 + 50.00000ml of M5603 = Final Quantity: 500.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000227540	09/24/2025	08/16/2019 / RICHARD	07/17/2019 / RICHARD	M4397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	210800	03/31/2026	05/28/2022 / mohan	07/28/2021 / mohan	M4920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	12/26/2026	05/29/2022 /	04/05/2022 / william	M5176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	10/31/2023	05/01/2023 / mohan	03/30/2023 / mohan	M5528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23B0262006	12/21/2023	06/23/2023 / Al-Terek	01/22/2023 / Al-Terek	M5597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22E1662006	12/16/2023	06/19/2023 / Al-Terek	04/11/2022 / Al-Terek	M5603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

avantor™ | J.T.Baker®

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Potassium Permanganate
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination

avantor™ | J.T.Baker®

M4397
Supplied – 07.17.19
Opened – 08.16.19
exp – 09.24.25

Material No.: 3227-05
Batch No.: 0000227540
Manufactured Date: 2018/09/26
Retest Date: 2025/09/24
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS - Assay ($KMnO_4$)	>= 99.0 %	99.0
ACS - Insoluble Matter	<= 0.2 %	< 0.1
ACS - Chloride and Chlorate (as Cl)	<= 0.005 %	0.005
ACS - Sulfate (SO_4)	<= 0.02 %	0.02
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	0.004

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

RS
08.16.19

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis
ThermoFisher SCIENTIFIC

M4917 - 20
MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	03/22/2021
Lot Number	210800		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Mar/2026
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	101.56
CALCIUM	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	<0.003
LEAD (Pb)	%	<= 0.01	<0.01
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	<0.005
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

INORGANIC VENTURES
Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M5528-32
MB

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	CN^-	99

Nitric Acid
CMOS

avantor™ | J.T.Baker®

R: 01/22/23

M5597, M5598, M5599, M5600, M5601

Material No.: 9606-03
Batch No.: 23B0262006
Manufactured Date: 2023-01-13
Retest Date: 2028-01-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	3.1 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	2.8 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	4.2 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 23B0262006

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M5602 M5603 M5604
M5605 M5606

Material No.: 9530-33
Batch No.: 22E1662006
Manufactured Date: 2022-04-11
Retest Date: 2027-04-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 0.2 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	37.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	1 ppb

>>> Continued on page 2 >>>

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	1.0 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 0.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	1.9 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.3 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 22E1662006

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

CHEMTECH

Water Mercury Preparation Sheet

PB154108

SOP ID : M7470A-Mercury-18, MSFAM01.1-Mercury in Water-2

SDG No : MH0F96

Matrix : WATER

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#2 2. N/A

Temp : 1. 95°C 2. N/A

Start Digest Date: 07/10/2023 **Time :** 09:45 **Temp :** 95 °C

End Digest Date: 07/10/2023 **Time :** 11:45 **Temp :** 94 °C

Digestion tube ID: M5593

Block thermometer ID: HG-DIG#2

Dig Technician Signature: MB

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP76227
CCV	100mL	MP76229
Matrix Spike	0.40mL	MP76216
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	7.5mL	MP75996
KMnO4	15.0mL	MP75997
K2S2O8	8.0mL	MP75998
Hydroxylamine HCL	6.0mL	MP75999
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP76217
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP76219
2.5 ppb	S2.5	100mL	MP76221
5.0 ppb	S5.0	100mL	MP76223
7.5 ppb	S7.5	100mL	MP76225
10.0 ppb	S10.0	100mL	MP76226
ICV	ICV	100mL	MP76227
ICB	ICB	100mL	MP76228
CCV	CCV	100mL	MP76229
CCB	CCB	100mL	MP76231
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/10/23 @ 12:20	MB- Dig. Lab	MB- Metal Cal
	Preparation Group	Analysis Group

CHEMTECH

Water Mercury Preparation Sheet

PB154108

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
03524-01	MH0F96	100	100	<2	N/A	2-9
03524-02	MH0F97	100	100	<2	N/A	10
03524-03	MH0F97D	100	100	<2	N/A	11
03524-04	MH0F97S	100	100	<2	MP76216	12
03524-05	MH0F98	100	100	<2	N/A	13
03524-06	MH0F99	100	100	<2	N/A	14
03524-07	MH0FA0	100	100	<2	N/A	15
PB154108BL	PBW108	100	100	<2	N/A	16

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126372

Review By	Sarabjit Jaswal	Review On	7/12/2023 12:17:12 AM
Supervise By	Bin He	Supervise On	7/12/2023 12:29:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP76217,MP76219,MP76221,MP76223,MP76225,MP76226
ICV Standard	MP76227
CCV Standard	MP76229
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76228,MP76231,MP76235

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/10/23 14:34		mohan	OK
2	S0.2	S01	CAL2	07/10/23 14:36		mohan	OK
3	S2.5	S02	CAL3	07/10/23 14:39		mohan	OK
4	S5	S03	CAL4	07/10/23 14:41		mohan	OK
5	S7.5	S04	CAL5	07/10/23 14:48		mohan	OK
6	S10	S05	CAL6	07/10/23 14:50		mohan	OK
7	ICV062	ICV062	ICV	07/10/23 14:53		mohan	OK
8	ICB062	ICB062	ICB	07/10/23 14:55		mohan	OK
9	CCV008	CCV008	CCV	07/10/23 15:00		mohan	OK
10	CCB008	CCB008	CCB	07/10/23 15:02		mohan	OK
11	PB154107BL	PBW107	MB	07/10/23 15:04		mohan	OK
12	O3427-01	A46J0	SAM	07/10/23 15:06		mohan	OK
13	O3427-02	A46T2	SAM	07/10/23 15:09		mohan	OK
14	O3427-03	A46T3	SAM	07/10/23 15:11		mohan	OK
15	O3427-04	A46X9	SAM	07/10/23 15:13		mohan	OK
16	O3427-05	A46R9	SAM	07/10/23 15:16		mohan	OK
17	O3427-06	A46R9D	DUP	07/10/23 15:18		mohan	OK
18	O3427-07	A46R9S	MS	07/10/23 15:20		mohan	OK
19	PB154108BL	PBW108	MB	07/10/23 15:22		mohan	OK
20	O3524-01	MH0F96	SAM	07/10/23 15:25		mohan	OK

CHEMTECH

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB126372

Review By	Sarabjit Jaswal	Review On	7/12/2023 12:17:12 AM
Supervise By	Bin He	Supervise On	7/12/2023 12:29:12 AM

STD. NAME	STD REF.#
ICAL Standard	MP76217,MP76219,MP76221,MP76223,MP76225,MP76226
ICV Standard	MP76227
CCV Standard	MP76229
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP76228,MP76231,MP76235

21	O3524-02	MH0F97	SAM	07/10/23 15:27		mohan	OK
22	O3524-03	MH0F97D	DUP	07/10/23 15:29		mohan	OK
23	O3524-04	MH0F97S	MS	07/10/23 15:31		mohan	OK
24	O3524-05	MH0F98	SAM	07/10/23 15:34		mohan	OK
25	O3524-06	MH0F99	SAM	07/10/23 15:36		mohan	OK
26	O3524-07	MH0FA0	SAM	07/10/23 15:38		mohan	OK
27	CCV009	CCV009	CCV	07/10/23 15:40		mohan	OK
28	CCB009	CCB009	CCB	07/10/23 15:43		mohan	OK

Copy

Original Documents are included in CSF M10F02

Signature

6/27/23

Date

ORIGIN ID:DENA (845) 235-1844
MATT LAFEMINA

1560 BROADWAY STE 1400

DENVER, CO 80202
UNITED STATES US

SHIP DATE: 23JUN23
ACTWGT: 60.00 LB
CAD: 6754017/SSFU0422
DIMS: 24x15x15 IN

BILL THIRD PARTY

TO ATTN SAMPLE RECEIVING

284 SHEFFIELD ST

MOUNTAINSIDE NJ 07092

(908) 728-3140 REF: HIGHWAY 24

INV:
PO: DEPT:

6/27/23

13:30

18.3

FedEx Express

J22202304050 1IN

2 of 6

MPS# 0263 7802 8789 1526

Mstr# 7802 8789 1515 0201

TE KBCA

TUE - 27 JUN 4:30P

** 2DAY **

07092

NJ-US EWR

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	O3524	Order Date :	6/27/2023 1:30:00 PM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	50856	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/27/2023 1:30:00 PM	EDD Type :	EPA CLP
Date Sign Off :	7/6/2023 2:09:11 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
O3524-01	MH0F96	Water	06/13/2023		DISS METALS				
				Hardness, Total		SFAM_MS	15	07/18/2023	07/18/2023
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3524-02	MH0F97	Water	06/13/2023		DISS METALS				
				Hardness, Total		SFAM_MS	15	07/18/2023	07/18/2023
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3524-03	MH0F97D	Water	06/13/2023		DISS METALS				
				Hardness, Total		SFAM_MS	15	07/18/2023	07/18/2023
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3524-04	MH0F97S	Water	06/13/2023		DISS METALS				
				Hardness, Total		SFAM_MS	15	07/18/2023	07/18/2023
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3524-05	MH0F98	Water	06/13/2023		DISS METALS--DUP				
				Hardness, Total		SFAM_MS	15	07/18/2023	07/18/2023
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3524-06	MH0F99	Water	06/13/2023		DISS METALS				
				Hardness, Total		SFAM_MS	15	07/18/2023	07/18/2023
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023
O3524-07	MH0FA0	Water	06/13/2023		DISS METALS-FB				
				Hardness, Total		SFAM_MS	15	07/18/2023	07/18/2023
				Mercury		SFAM_HG	15	07/18/2023	07/18/2023
				Metals CLP MS		SFAM_MS	15	07/18/2023	07/18/2023

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB154039 **WorkList ID :** 171681 **Department :** Digestion **Date :** 07-07-2023 10:42:02

420

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3524-01	MH0F96	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3524-02	MH0F97	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3524-03	MH0F97D	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3524-04	MH0F97S	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3524-05	MH0F98	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3524-06	MH0F99	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS
O3524-07	MH0FA0	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_MS

Date/Time 7/7/23 12:35
Raw Sample Received by: AI/Dig. Lab
Raw Sample Relinquished by: CP Sm

Date/Time 7/7/23 13:10
Raw Sample Received by: CP Sm
Raw Sample Relinquished by: AI/Dig. Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3524_HgW **WorkList ID :** 171727 **Department :** Digestion **Date :** 07-10-2023 08:25:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3524-01	MH0F96	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3524-02	MH0F97	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3524-03	MH0F97D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3524-04	MH0F97S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3524-05	MH0F98	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3524-06	MH0F99	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG
O3524-07	MH0FA0	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	B23	06/13/2023	SFAM_HG

421

Date/Time 7/10/23 @ 9:25

Raw Sample Received by: [illegible] Mtl. Lab

Raw Sample Relinquished by: [illegible]

Date/Time 7/10/23 @ 10:35

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible] Lab